กรมการแพทย์
DEPARTMENT OF MEDICAL SERVICES

VOL.XI 2019-2021

CANCER IN THAILAND

MINISTRY OF PUBLIC HEALTH

NATIONAL CANCER INSTITUTE
LAMPANG CANCER CENTER
UBON RATCHATHANI CANCER CENTER
UDON THANI CANCER CENTER
LOP BURI CANCER CENTER
CHON BURI CANCER CENTER
SURAT THANI CANCER CENTER

MINISTRY OF HIGHER EDUCATION SCIENCE, RESEARCH AND INNOVATION

CHIANG MAI UNIVERSITY
KHON KAEN UNIVERSITY
PRINCE OF SONGKLA UNIVERSITY

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BANGKOK, 2025

CANCER IN THAILAND

VOL.XI 2019-2021

NCI NATIONAL CANCER INSTITUTE

PRODUCED BY

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PUBLISHED 2025
ISBN 978-616-11-5387-8

ผลงานนี้ ใช้สัญญาอนุญาตของครีเอทีฟคอมมอนส์แบบ
แสดงที่มา-ไม่ใช้เพื่อการค้า-อนุญาตแบบเดียวกัน 4.0 International

Cancer in Thailand Vol.XI 2019-2021.-- Bangkok : National cancer institute,
Department of Medical Services Ministry of Public Health, 2025.
269 p.

1. Cancer -- Thailand -- Statistics. I. Title.

362.196994
ISBN 978-616-11-5387-8

Foreword

The monograph "Cancer in Thailand Vol. XI", contains the available data on incidence and distribution of different cancers during 2019-2021, this monograph was published behind planning schedule because we got the patient data in delay especially in Bangkok region due to some concerning about PDPA regulation.

This volume contains the data from 16 cancer registries including, Bangkok, Pathum Thani, Lop Buri, Suphan Buri, Chiang Mai, Lampang, Lamphun, Nan, Rayong, Chon Buri, Chanthaburi, Khon Kaen, Udon Thani, Ubon Ratchathani, Songkhla and Surat Thani, this account around 37.5% of population coverage. In addition, in this volume, we also provided the projection data of common cancers.

On behalf of the NCI and editors, I express my gratitude to all of our collaborators for their assistance in supplying the data that is included in this volume. Additionally, I would like to thank the dedicated staff members of all cancer registries for their tremendous efforts in creating the statistics and visualizations.

In addition to being helpful for planning and tracking our cancer control measures, we expect that the current volume will give a picture of Thailand's cancer condition and be helpful for various cancer research topics.

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Acknowledgements

This work was supported by the government budget of the National Cancer Institute, Department of Medical Services, Ministry of Public Health.

The authors gratefully acknowledge the assistance of all the institutes, hospitals, universities and the personnel involved in this generating data for the monograph.

We would like to express our especial gratitude to Dr. Krittika Suwanrungruang from Khon Kaen Cancer Registry and Dr. Suleeporn Sangrajrang from Bangkok Cancer Hospital Wattanosoth for preparation of the statistics and graphics in this volume for their assistance in the preparation of this publication.

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5. Lanna Hospital
6. Chiang Mai Ram Hospital
7. Chiang Mai Medical Center Hospital
8. Mckean Rehabilitation Center
9. Central Chiang Mai Memorial Hospital
10. Chiang Mai klaimor hospital
11. Changpeuk Hospital
12. Siamrad Chiang Mai Hospital
13. Theppunya Hospital
14. Rajavej Chiang Mai Hospital
15. Chom Thong Hospital
16. Mae Chaem Hospital
17. Chiang Dao Hospital
18. Doi Saket Hospital
19. Mae Taeng Hospital
20. Mae Rim Hospital
21. Samoeng Hospital
22. Fang Hospital
23. Mae Ai Hospital
24. Phrao Hospital
25. San Pa Tong Hospital
26. San Kamphaeng Hospital
27. San Sai Hospital
28. Hang Dong Hospital
29. Hot Hospital
30. Doi Tao Hospital
31. Omkoi Hospital
32. Saraphi Hospital
33. Wiang Haeng Hospital
34. Chai Prakan Hospital
35. Mae Wang Hospital
36. Mae On Hospital
37. Doi Law Hospital
38. Wat Chan Chaloem Prakiat Hospital Marking His Majesty the King's 80 Birthday
39. Chiang Mai Neurological Hospital

HOSPITALS AND INSTITUTES

LAMPANG

1. Lampang Provincial Hospital
2. Provincial Public Health Service of Lampang
3. Private Hospitals in Lampang-Khaelang-Ram Hospital
4. Surasakmontri Military Hospital
5. Community Hospitals
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   - 5.2 Ngao Hospital
   - 5.3 Chae Hom Hospital
   - 5.4 Theon Hospital
   - 5.5 Mae Tha Hospital
   - 5.6 Mae Prik Hospital
   - 5.7 Mae Moh Hospital
   - 5.8 Wang Nua Hospital
   - 5.9 Sop Prap Hospital
   - 5.10 Soem Ngam Hospital
   - 5.11 Hang Chat Hospital
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   - 4.2 Lee Hospital
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   - 4.4 Ban Ti Hospital
   - 4.5 Ban Hong Hospital
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Population differences between Volume X and Volume XI

Overall, the population slightly increased during the period, from 65,490,561 people in Volume X to 65,988,354 in Volume XI. The age-standardized rate (ASR) of cancer in Thailand dropped from 147.5/100,000 to 137.6/100,000 among males and from 141.8/100,000 to 132.9/100,000 among females, despite the number of new cases increasing from 139,206 to 140,799. The ASRs for Lop Buri, Suphan Buri and Songkhla provinces demonstrated a pronounced decline, while the ASRs for Bangkok, Chon Buri, Rayong and Surat Thani provinces demonstrated an increse as shown in Table i.

The current volume contains 16 registries: Chiang Mai, Lampang, Lamphun, Khon Kaen, Ubon Ratchathani, Udon Thani, Lop Buri, Suphan Buri, Bangkok, Chon Buri, Rayong, Surat Thani and Songkhla, including new contributions from Nan, Pathum Thani and Chanthaburi (Table ii).

Between volume X and XI, there are some differences in cancer ASRs. In volume XI, the ASR of liver and bile duct cancer significantly declines more than previous trend projections. The decrease in the incidence of liver and bile duct cancer may be due to the long-standing hepatitis vaccination policy, along with effective screening of chronic hepatitis virus patients and management in preventing liver fluke disease. In terms of the increasing incidence of cancer, it includes colorectal cancer in both sexes, breast cancer in females and prostate cancer in males. These malignancies follow the trend of illness occurrence because of the aging population and the modern lifestyle, which raises the chance of being exposed to risk factors for these diseases. However, for cervical cancer, there is still a declining trend due to Thailand's continuous screening efforts combined with the administration of the HPV vaccine.

Table i. Number of cases, ASR and population comparing Vol X and Vol XI

Area	Cases				Mean annual ASR				Population			
	Male		Female		Male		Female		Male		Female	
	Vol. XI	Vol. X	Vol. XI	Vol. X	Vol. XI	Vol. X	Vol. XI	Vol. X	Vol. XI	Vol. X	Vol. XI	Vol. X
Thailand	**67,677**	**67,061**	**73,122**	**72,145**	**137.6**	**147.5**	**132.9**	**141.8**	**31,984,069**	**31,805,158**	**34,004,285**	**33,685,403**
Chiang Mai	2,237	2,145	2,255	2,121	174.6	173.2	166.1	161.8	792,600	805,233	838,300	849,567
Lampang	1,055	1,035	1,026	1,001	145.2	151.4	144.1	147.3	354,633	359,133	368,600	372,133
Lamphun	559	572	567	539	161.0	171.9	157.0	152.3	192,833	194,400	206,433	207,733
Nan	588	-	603	-	145.7	-	147.5	-	214,500	-	218,233	-
Khon Kaen	1,775	1,686	1,677	1,609	135.6	135.2	119.9	117.5	821,900	829,133	886,467	891,733
Ubon Ratchathani	1,712	1,506	1,737	1,578	136.6	125.2	137.8	127.5	822,133	832,867	856,067	864,667
Udon Thani	1,181	1,167	1,242	1,109	133.5	137.0	133.2	117.8	598,367	607,367	632,800	640,200
Lop Buri	887	1,034	941	1,030	144.2	180.7	147.1	168.3	383,300	383,500	382,567	383,433
Suphan Buri	1,062	1,087	1,103	1,268	148.0	160.0	139.8	167.3	413,967	412,000	446,233	444,533
Pathum Thani	1,303	-	1,495	-	147.2	-	138.2	-	705,133	-	776,967	-
Bangkok	7,484	5,785	8,972	7,042	146.6	124.7	138.0	117.8	3,965,169	3,914,558	4,296,885	4,232,403
Chon Buri	1,446	1,112	1,727	1,300	173.3	146.0	164.0	136.9	767,167	743,833	830,967	806,700
Rayong	744	572	767	621	148.6	125.7	129.6	113.5	443,000	428,900	438,600	424,033
Chanthaburi	694	-	662	-	168.9	-	145.8	-	266,700	-	279,733	-
Surat Thani	843	703	923	728	127.7	111.6	122.1	100.6	491,867	485,733	521,600	513,400
Songkhla	1,266	1,308	1,275	1,286	125.7	140.2	111.0	119.3	750,733	740,633	801,133	788,133

Table ii. List of cancer registries included in Cancer in Thailand volume X and XI

Volume X (2016-2018)	Volume XI (2019-2021)
Northern region	**Northern region**
Chiang Mai	Chiang Mai
Lampang	Lampang
Lamphun	Lamphun
	Nan
Northeastern region	**Northeastern region**
Khon Kaen	Khon Kaen
Ubon Ratchathani	Ubon Ratchathani
Udon Thani	Udon Thani
Central region	**Central region**
Lop Buri	Lop Buri
Suphan Buri	Suphan Buri
Bangkok	**Pathum Thani**
	Bangkok
Eastern region	**Eastern region**
Chon Buri	Chon Buri
Rayong	Rayong
	Chanthaburi
Southern region	**Southern region**
Surat Thani	Surat Thani
Songkhla	Songkhla

CONTENTS

FOREWORD ..... A
CONTRIBUTORS TO THE MONOGRAPH C
HOSPITALS AND INSTITUTES ..... J
CONTENTS ..... W
LIST OF TABLES ..... Y
LIST OF FIGURES ..... BB
CHAPTER 1 REGISTRY PROCEDURE AND STATISTICAL METHODS 1
CHAPTER 2 CANCER INCIDENCE IN THAILAND 5
CANCER INCIDENCE IN LEADING SITES 13
2.1 ORAL CAVITY 14
2.2 OROPHARYNX 17
2.3 NASOPHARYNX 19
2.4 HYPOPHARYNX 22
2.5 ESOPHAGUS 24
2.6 STOMACH 27
2.7 COLON AND RECTUM 30
2.8 LIVER AND BILE DUCT 33
2.9 LARYNX 36
2.10 TRACHEA, BRONCHUS AND LUNG 38
2.11 SKIN 42
2.12 BREAST 45
2.13 CERVIX UTERI 49
2.14 CORPUS UTERI 52
2.15 OVARY 54
2.16 PROSTATE 57
2.17 URINARY BLADDER 59
2.18 THYROID GLAND 62
2.19 LYMPHOMA 65
2.20 LEUKEMIA 67
CHAPTER 3 CANCER INCIDENCE IN 16 CANCER REGISTRIES 70
3.1 CHIANG MAI CANCER REGISTRY 71

3.2 LAMPANG CANCER REGISTRY 78
3.3 LAMPHUN CANCER REGISTRY 85
3.4 NAN CANCER REGISTRY 92
3.5 KHON KAEN CANCER REGISTRY 99
3.6 UBON RATCHATHANI CANCER REGISTRY 106
3.7 UDON THANI CANCER REGISTRY 113
3.8 LOP BURI CANCER REGISTRY 120
3.9 SUPHAN BURI CANCER REGISTRY 127
3.10 PATHUM THANI CANCER REGISTRY 134
3.11 BANGKOK CANCER REGISTRY 142
3.12 CHON BURI CANCER REGISTRY 149
3.13 RAYONG CANCER REGISTRY 156
3.14 CHANTHABURI CANCER REGISTRY 163
3.15 SURAT THANI CANCER REGISTRY 170
3.16 SONGKHLA CANCER REGISTRY 177
CHAPTER 4 CANCER INCIDENCE IN HEALTH REGIONS 184
4.1 HEALTH REGIONS 1 185
4.2 HEALTH REGIONS 2 189
4.3 HEALTH REGIONS 3 193
4.4 HEALTH REGIONS 4 197
4.5 HEALTH REGIONS 5 201
4.6 HEALTH REGIONS 6 205
4.7 HEALTH REGIONS 7 209
4.8 HEALTH REGIONS 8 213
4.9 HEALTH REGIONS 9 217
4.10 HEALTH REGIONS 10 221
4.11 HEALTH REGIONS 11 225
4.12 HEALTH REGIONS 12 229

List of Tables

TABLE I NUMBER OF CASES, ASR AND POPULATION COMPARING VOL X AND VOL XI ..... U

TABLE II LIST OF CANCER REGISTRIES INCLUDED IN CANCER IN THAILAND VOLUME X AND XI V

TABLE A LAND AREA AND ESTIMATED POPULATION IN 2020 (2019-2021) 6

TABLE B MEAN ANNUAL AGE-STANDARDIZED INCIDENCE RATE (ASR PER 100,000), ALL SITES, 2019-2021 7

TABLE C THAILAND (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP – MALE 11

TABLE D THAILAND (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP – FEMALE 12

TABLE 3.1.1 CHIANG MAI (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 74

TABLE 3.1.2 CHIANG MAI (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 75

TABLE 3.1.3 MEAN ANNUAL INCIDENCE, CHIANG MAI, 2019-2021 76

TABLE 3.1.4 PERCENTAGE OF MORPHOLOGICALLY VERIFIED AND DEATH CERTIFICATE ONLY CASES, CHIANG MAI 77

TABLE 3.2.1 LAMPANG (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 81

TABLE 3.2.2 LAMPANG (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 82

TABLE 3.2.3 MEAN ANNUAL INCIDENCE, LAMPANG, 2019-2021 83

TABLE 3.2.4 PERCENTAGE OF MORPHOLOGICALLY VERIFIED AND DEATH CERTIFICATE ONLY CASES, LAMPANG 84

TABLE 3.3.1 LAMPHUN (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 88

TABLE 3.3.2 LAMPHUN (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 89

TABLE 3.3.3 MEAN ANNUAL INCIDENCE, LAMPHUN, 2019-2021 90

TABLE 3.3.4 PERCENTAGE OF MORPHOLOGICALLY VERIFIED AND DEATH CERTIFICATE ONLY CASES, LAMPHUN 91

TABLE 3.4.1 NAN (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 95

TABLE 3.4.2 NAN (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 96

TABLE 3.4.3 MEAN ANNUAL INCIDENCE, NAN, 2019-2021 97

TABLE 3.4.4 PERCENTAGE OF MORPHOLOGICALLY VERIFIED AND DEATH CERTIFICATE ONLY CASES, NAN 98

TABLE 3.5.1 KHON KAEN (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 102

TABLE 3.5.2 KHON KAEN (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 103

TABLE 3.5.3 MEAN ANNUAL INCIDENCE, KHON KAEN, 2019-2021 104

TABLE 3.5.4 PERCENTAGE OF MORPHOLOGICALLY VERIFIED AND DEATH CERTIFICATE ONLY CASES, KHON KAEN 105

TABLE 3.6.1 UBON RATCHATHANI (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 109

TABLE 3.6.2 UBON RATCHATHANI (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 110

TABLE 3.6.3 MEAN ANNUAL INCIDENCE, UBON RATCHATHANI, 2019-2021 111

TABLE 3.6.4 PERCENTAGE OF MORPHOLOGICALLY VERIFIED AND DEATH CERTIFICATE ONLY CASES, UBON RATCHATHANI 112

TABLE 3.7.1 UDON THANI (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP – MALE 116

TABLE 3.7.2 UDON THANI (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 117

TABLE 3.7.3 MEAN ANNUAL INCIDENCE, UDON THANI, 2019-2021 118

TABLE 3.7.4 PERCENTAGE OF MORPHOLOGICALLY VERIFIED AND DEATH CERTIFICATE ONLY CASES, UDON THANI 119

TABLE 3.8.1 LOP BURI (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 123

TABLE 3.8.2 LOP BURI (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 124

TABLE 3.8.3 MEAN ANNUAL INCIDENCE, LOP BURI, 2019-2021 125

TABLE 3.8.4 PERCENTAGE OF MORPHOLOGICALLY VERIFIED AND DEATH CERTIFICATE ONLY CASES, LOP BURI 126

TABLE 3.9.1 SUPHAN BURI (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 130

TABLE 3.9.2 SUPHAN BURI (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 131

TABLE 3.9.3 MEAN ANNUAL INCIDENCE, SUPHAN BURI, 2019-2021 132

TABLE 3.9.4 PERCENTAGE OF MORPHOLOGICALLY VERIFIED AND DEATH CERTIFICATE ONLY CASES, SUPHAN BURI 133

TABLE 3.10.1 PATHUM THANI (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 138

TABLE 3.10.2 PATHUM THANI (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 139

TABLE 3.10.3 MEAN ANNUAL INCIDENCE, PATHUM THANI, 2019-2021 140

TABLE 3.10.4 PERCENTAGE OF MORPHOLOGICALLY VERIFIED AND DEATH CERTIFICATE ONLY CASES, PATHUM THANI 141

TABLE 3.11.1 BANGKOK (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 145

TABLE 3.11.2 BANGKOK (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 146

TABLE 3.11.3 MEAN ANNUAL INCIDENCE, BANGKOK, 2019-2021 147

TABLE 3.11.4 PERCENTAGE OF MORPHOLOGICALLY VERIFIED AND DEATH CERTIFICATE ONLY CASES, BANGKOK 148

TABLE 3.12.1 CHON BURI (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 152

TABLE 3.12.2 CHON BURI (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 153

TABLE 3.12.3 MEAN ANNUAL INCIDENCE, CHON BURI, 2019-2021 154

TABLE 3.12.4 PERCENTAGE OF MORPHOLOGICALLY VERIFIED AND DEATH CERTIFICATE ONLY CASES, CHON BURI 155

TABLE 3.13.1 RAYONG (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 159

TABLE 3.13.2 RAYONG (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 160

TABLE 3.13.3 MEAN ANNUAL INCIDENCE, RAYONG, 2019-2021 161

TABLE 3.13.4 PERCENTAGE OF MORPHOLOGICALLY VERIFIED AND DEATH CERTIFICATE ONLY CASES, RAYONG 162

TABLE 3.14.1 CHANTHABURI (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 166

TABLE 3.14.2 CHANTHABURI (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 167

TABLE 3.14.3 MEAN ANNUAL INCIDENCE, CHANTHABURI, 2019-2021 168

TABLE 3.14.4 PERCENTAGE OF MORPHOLOGICALLY VERIFIED AND DEATH CERTIFICATE ONLY CASES, CHANTHABURI 169

TABLE 3.15.1 SURAT THANI (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 173

TABLE 3.15.2 SURAT THANI (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 174

TABLE 3.15.3 MEAN ANNUAL INCIDENCE, SURAT THANI, 2019-2021.....175

TABLE 3.15.4 PERCENTAGE OF MORPHOLOGICALLY VERIFIED AND DEATH CERTIFICATE ONLY CASES, SURAT THANI 176

TABLE 3.16.1 SONGKHLA (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 180

TABLE 3.16.2 SONGKHLA (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE.....181

TABLE 3.16.3 MEAN ANNUAL INCIDENCE, SONGKHLA, 2019-2021 182

TABLE 3.16.4 PERCENTAGE OF MORPHOLOGICALLY VERIFIED AND DEATH CERTIFICATE ONLY CASES, SONGKHLA.....183

TABLE 4.1.1 HEALTH REGIONS 1 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 187

TABLE 4.1.2 HEALTH REGIONS 1 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE.....188

TABLE 4.2.1 HEALTH REGIONS 2 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP – MALE.....191

TABLE 4.2.2 HEALTH REGIONS 2 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP – FEMALE.....192

TABLE 4.3.1 HEALTH REGIONS 3 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP – MALE 195

TABLE 4.3.2 HEALTH REGIONS 3 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP – FEMALE.....196

TABLE 4.4.1 HEALTH REGIONS 4 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP – MALE 199

TABLE 4.4.2 HEALTH REGIONS 4 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP – FEMALE.....200

TABLE 4.5.1 HEALTH REGIONS 5 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP – MALE 203

TABLE 4.5.2 HEALTH REGIONS 5 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP – FEMALE.....204

TABLE 4.6.1 HEALTH REGIONS 6 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP – MALE.....207

TABLE 4.6.2 HEALTH REGIONS 6 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP – FEMALE.....208

TABLE 4.7.1 HEALTH REGIONS 7 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 211

TABLE 4.7.2 HEALTH REGIONS 7 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 212

TABLE 4.8.1 HEALTH REGIONS 8 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE.....215

TABLE 4.8.2 HEALTH REGIONS 8 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 216

TABLE 4.9.1 HEALTH REGIONS 9 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP – MALE 219

TABLE 4.9.2 HEALTH REGIONS 9 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE.....220

TABLE 4.10.1 HEALTH REGIONS 10 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 223

TABLE 4.10.2 HEALTH REGIONS 10 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE.....224

TABLE 4.11.1 HEALTH REGIONS 11 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 227

TABLE 4.11.2 HEALTH REGIONS 11 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 228

TABLE 4.12.1 HEALTH REGIONS 12 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - MALE 231

TABLE 4.12.2 HEALTH REGIONS 12 (2020), MEAN ANNUAL ASR PER 100,000 (2019-2021) BY AGE GROUP - FEMALE 232

List of Figures

FIGURE A THAILAND REGIONS AND AREA COVERED BY THE CANCER REGISTRIES. 8

FIGURE B MEAN ANNUAL AGE-STANDARDIZED INCIDENCE RATE IN THAILAND (ASR PER 100,000), ALL SITES, 2019-2021 9

FIGURE C LEADING CANCER IN THAILAND (MEAN ANNUAL ASR 2019-2021) 10

FIGURE 2.1.1 ORAL CAVITY CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021) 14

FIGURE 2.1.2 AGE - SPECIFIC INCIDENCE RATES OF ORAL CAVITY CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021) 15

FIGURE 2.1.3 STAGE DISTRIBUTION OF ORAL CAVITY CANCER (2019-2021) 16

FIGURE 2.2.1 OROPHARYNX CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021) 17

FIGURE 2.2.2 AGE - SPECIFIC INCIDENCE RATES OF OROPHARYNX CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021) 18

FIGURE 2.3.1 NASOPHARYNX CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021) 19

FIGURE 2.3.2 AGE - SPECIFIC INCIDENCE RATES OF NASOPHARYNX CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021) 20

FIGURE 2.3.3 STAGE DISTRIBUTION OF NASOPHARYNX CANCER (2019-2021) 21

FIGURE 2.4.1 HYPOPHARYNX CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021) 22

FIGURE 2.4.2 AGE - SPECIFIC INCIDENCE RATES OF HYPOPHARYNX CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021) 23

FIGURE 2.5.1 ESOPHAGUS CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021) 24

FIGURE 2.5.2 AGE - SPECIFIC INCIDENCE RATES OF ESOPHAGUS CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021) 25

FIGURE 2.5.3 STAGE DISTRIBUTION OF ESOPHAGUS CANCER (2019-2021) 26

FIGURE 2.6.1 STOMACH CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021) 27

FIGURE 2.6.2 AGE - SPECIFIC INCIDENCE RATES OF STOMACH CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021) 28

FIGURE 2.6.3 STAGE DISTRIBUTION OF STOMACH CANCER (2019-2021) 29

FIGURE 2.7.1 COLON AND RECTUM CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021) 30

FIGURE 2.7.2 AGE - SPECIFIC INCIDENCE RATES OF COLON AND RECTUM CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021) 31

FIGURE 2.7.3 STAGE DISTRIBUTION OF COLON AND RECTUM CANCER (2019-2021) 32

FIGURE 2.8.1 LIVER AND BILE DUCT CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021)....33
FIGURE 2.8.2 AGE - SPECIFIC INCIDENCE RATES OF LIVER AND BILE DUCT CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021)....34
FIGURE 2.8.3 HISTOLOGICAL TYPES OF LIVER AND BILE DUCT CANCER (2019-2021)....35
FIGURE 2.9.1 LARYNX CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021)....36
FIGURE 2.9.2 AGE - SPECIFIC INCIDENCE RATES OF LARYNX CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021)....37
FIGURE 2.10.1 TRACHEA, BRONCHUS AND LUNG CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021)....38
FIGURE 2.10.2 AGE - SPECIFIC INCIDENCE RATES OF TRACHEA, BRONCHUS AND LUNG CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021)....39
FIGURE 2.10.3 HISTOLOGICAL TYPES OF TRACHEA, BRONCHUS AND LUNG CANCER (2019-2021)....40
FIGURE 2.10.4 STAGE DISTRIBUTION OF TRACHEA, BRONCHUS AND LUNG CANCER (2019-2021)....41
FIGURE 2.11.1 SKIN CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021)....42
FIGURE 2.11.2 AGE - SPECIFIC INCIDENCE RATES OF SKIN CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021)....43
FIGURE 2.11.3 HISTOLOGICAL TYPES OF SKIN CANCER (2019-2021)....44
FIGURE 2.12.1 BREAST CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021)....45
FIGURE 2.12.2 AGE - SPECIFIC INCIDENCE RATES OF BREAST CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021)....46
FIGURE 2.12.3 HISTOLOGICAL TYPES OF BREAST CANCER (2019-2021)....47
FIGURE 2.12.4 STAGE DISTRIBUTION OF BREAST CANCER (2019-2021)....48
FIGURE 2.13.1 CERVICAL CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021)....49
FIGURE 2.13.2 AGE - SPECIFIC INCIDENCE RATES OF CERVICAL CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021)....50
FIGURE 2.13.3 CERVICAL CANCER: PERCENTAGE DISTRIBUTION OF HISTOLOGICAL TYPES AMONG MICROSCOPICALLY VERIFIED (2019-2021)....50
FIGURE 2.13.4 STAGE DISTRIBUTION OF CERVICAL CANCER (2019-2021)....51
FIGURE 2.14.1 CORPUS UTERI CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021)....52
FIGURE 2.14.2 AGE - SPECIFIC INCIDENCE RATES OF CORPUS UTERI CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021)....53
FIGURE 2.14.3 STAGE DISTRIBUTION OF CORPUS UTERI CANCER (2019-2021)....53
FIGURE 2.15.1 OVARIAN CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021)....54
FIGURE 2.15.2 AGE - SPECIFIC INCIDENCE RATES OF OVARIAN CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021)....55
FIGURE 2.15.3 HISTOLOGICAL TYPES OF OVARIAN CANCER (2019-2021)....55
FIGURE 2.15.4 STAGE DISTRIBUTION OF OVARIAN CANCER (2019-2021)....56
FIGURE 2.16.1 PROSTATE CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021)....57

FIGURE 2.16.2 AGE - SPECIFIC INCIDENCE RATES OF PROSTATE CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021)....58
FIGURE 2.17.1 URINARY BLADDER CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021)....59
FIGURE 2.17.2 AGE - SPECIFIC INCIDENCE RATES OF URINARY BLADDER CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021)....60
FIGURE 2.17.3 HISTOLOGICAL TYPES OF URINARY BLADDER CANCER (2019-2021)....61
FIGURE 2.18.1 THYROID CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021)....62
FIGURE 2.18.2 AGE - SPECIFIC INCIDENCE RATES OF THYROID CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021)....63
FIGURE 2.18.3 HISTOLOGICAL TYPES OF THYROID CANCER (2019-2021)....64
FIGURE 2.19.1 LYMPHOMA CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021)....65
FIGURE 2.19.2 AGE - SPECIFIC INCIDENCE RATES OF LYMPHOMA CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021)....66
FIGURE 2.20.1 LEUKEMIA CANCER IN DIFFERENT REGIONS, MEAN ANNUAL ASR PER 100,000 (2019-2021)....67
FIGURE 2.20.2 AGE - SPECIFIC INCIDENCE RATES OF LEUKEMIA CANCER, MEAN ANNUAL RATE PER 100,000 (2019-2021)....68
FIGURE 2.20.3 HISTOLOGICAL TYPES OF LEUKEMIA CANCER (2019-2021)....69
FIGURE 3.1.1 LEADING CANCER IN CHIANG MAI (MEAN ANNUAL ASR 2019-2021)....73
FIGURE 3.2.1 LEADING CANCER IN LAMPANG (MEAN ANNUAL ASR 2019-2021)....80
FIGURE 3.3.1 LEADING CANCER IN LAMPHUN (MEAN ANNUAL ASR 2019-2021)....87
FIGURE 3.4.1 LEADING CANCER IN NAN (MEAN ANNUAL ASR 2019-2021)....94
FIGURE 3.5.1 LEADING CANCER IN KHON KAEN (MEAN ANNUAL ASR 2019-2021)....101
FIGURE 3.6.1 LEADING CANCER IN UBON RATCHATHANI (MEAN ANNUAL ASR 2019-2021)....108
FIGURE 3.7.1 LEADING CANCER IN UDON THANI (MEAN ANNUAL ASR 2019-2021)....115
FIGURE 3.8.1 LEADING CANCER IN LOP BURI (MEAN ANNUAL ASR 2019-2021)....122
FIGURE 3.9.1 LEADING CANCER IN SUPHAN BURI (MEAN ANNUAL ASR 2019-2021)....129
FIGURE 3.10.1 LEADING CANCER IN PATHUM THANI (MEAN ANNUAL ASR 2019-2021)....137
FIGURE 3.11.1 LEADING CANCER IN BANGKOK (MEAN ANNUAL ASR 2019-2021)....144
FIGURE 3.12.1 LEADING CANCER IN CHON BURI (MEAN ANNUAL ASR 2019-2021)....151
FIGURE 3.13.1 LEADING CANCER IN RAYONG (MEAN ANNUAL ASR 2019-2021)....158
FIGURE 3.14.1 LEADING CANCER IN CHANTHABURI (MEAN ANNUAL ASR 2019-2021)....165
FIGURE 3.15.1 LEADING CANCER IN SURAT THANI (MEAN ANNUAL ASR 2019-2021)....172
FIGURE 3.16.1 LEADING CANCER IN SONGKHLA (MEAN ANNUAL ASR 2019-2021)....179
FIGURE 4.1.1 LEADING CANCER IN HEALTH REGIONS 1 (MEAN ANNUAL ASR 2019-2021)....186
FIGURE 4.2.1 LEADING CANCER IN HEALTH REGIONS 2 (MEAN ANNUAL ASR 2019-2021)....190
FIGURE 4.3.1 LEADING CANCER IN HEALTH REGIONS 3 (MEAN ANNUAL ASR 2019-2021)....194
FIGURE 4.4.1 LEADING CANCER IN HEALTH REGIONS 4 (MEAN ANNUAL ASR 2019-2021)....198

FIGURE 4.5.1 LEADING CANCER IN HEALTH REGIONS 5 (MEAN ANNUAL ASR 2019-2021).....202

FIGURE 4.6.1 LEADING CANCER IN HEALTH REGIONS 6 (MEAN ANNUAL ASR 2019-2021).....206

FIGURE 4.7.1 LEADING CANCER IN HEALTH REGIONS 7 (MEAN ANNUAL ASR 2019-2021).....210

FIGURE 4.8.1 LEADING CANCER IN HEALTH REGIONS 8 (MEAN ANNUAL ASR 2019-2021).....214

FIGURE 4.9.1 LEADING CANCER IN HEALTH REGIONS 9 (MEAN ANNUAL ASR 2019-2021).....218

FIGURE 4.10.1 LEADING CANCER IN HEALTH REGIONS 10 (MEAN ANNUAL ASR 2019-2021).....222

FIGURE 4.11.1 LEADING CANCER IN HEALTH REGIONS 11 (MEAN ANNUAL ASR 2019-2021).....226

FIGURE 4.12.1 LEADING CANCER IN HEALTH REGIONS 12 (MEAN ANNUAL ASR 2019-2021).....230

Chapter 1

Registry Procedure and Statistical Methods

Registry Procedure and Statistical Methods

The methods specific to each registry are described in the appendix. Briefly, data on cancer cases are collected from hospitals, laboratories and death certificates. The data collected for each cancer patient consist of registry number, name, residential address, date of birth, age, sex, date and method of diagnosis, topographic site, histology and extent of cancer, and vital status of cancer patient. The data collection in details may differ from one to another registry.

Copies of death certificates are collected from the Chief Medical Officer's Offices. All certificates of death are reviewed and matched with the incident case records of the registries. The cases with no matching record are tracked back to the data sources for relevant information. Cases unable to be traced are registered as diagnosed by death certificate only.

The primary site and histology of cancer are coded according to the ICD-O 3rd edition (Fritz *et al*., 2000) and current the ICD-O 3rd edition First Revision. Second and subsequent primary cancers are also registered. A new registration number is given for each new primary and subsequent cancer as indicated by the 3-digit code as specified in the ICD-O manual. Cases of carcinoma in situ are registered but not included in the calculation of incidence rates. Those carcinoma in situ cases later become invasive cancers are registered as malignant and included in the calculation of incidence rates. The most valid basis of diagnosis is recorded for all registered cases.

All registered cases are followed up by passive and active procedures. Registered cases are matched with death certificates. For the remaining cases, follow up information was obtained by scrutiny of hospital records, postal enquiries, and through the network of health care system.

Population denominators

The population denominators used for the calculation of rates were taken from the Population Projections report for Thailand 2010-2040 by the Population Projection Working Group, Office of the National Economic and Social Development Board, published in 2013 which provided annual estimate by age group and sex for each province in Thailand.

The annual populations at risk were calculated for the period 2019-2021 in each registry area. They are shown in the section of each particular registry. The populations of the whole country and the five regions of Thailand for the period 2019-2021 were also estimated from the Office of the National Economic and Social Development Board.

National estimate

The data from the four Northern cancer registries of Chiang Mai, Lampang, Lamphun and Nan first pooled by adding together the cases and the person-years at risk from the four registries. The expected incidence cases of the whole Northern region were calculated by adjusting the pooled incidence cases by sex and age groups of the four cancer registries of the whole Northern region during 2019-2021 using the data from Ministry of Public Health. The same procedure was done in the Northeastern region by adding together cases and person-years at risk from Khon Kaen, Ubon Ratchathani and Udon Thani. Chon Buri, Chanthaburi and Rayong were representatives of the Eastern region, while Pathun Thani, Lop Buri and Suphan Buri were representative of central region. The data of the Southern region was conducted from Songkhla and Surat Thani.

Then the age (five-year age groups) and sex specific rates for the five regions excluding Bangkok were calculated. When expected cases for the five regions and the actual cases of Bangkok were combined together, the expected number of cases and estimated ASRs for the period 2019-2021 by sex and site for the whole Kingdom of Thailand were finally obtained.

Crude incidence rate (CR)

Crude incidence rate is the number of new cancer cases observed during a defined period of population divided by the population at risk in the same period. It is expressed per 100,000 population.

Age-specific incidence rate

Age-specific incidence rate is the incidence rate in a specific age group. The age-specific rates are calculated by dividing the number of cancer cases in each five years age and sex structure of population in the age group multiplied by 100,000. The rates are expressed per 100,000 populations.

$$AR = Ni/Pi \times 100,000$$

Ni = Number of new cancers occurring in the age group

Pi = Population of the age group

Age-standardized incidence rate (ASR)

The age-standardized incidence rate is a summary measure of a rate that a population will have if it has a standard age structure. It is calculated first by estimating the age-specific incidence rates and applying these rates to the standard population. The world standard population is used in this book (O.M. JENSEN et al., 1991). It is also expressed per 100,000 populations. Standardization is necessary when comparing several populations that differ with respect to age because it has powerful influence on the risk of cancer.

Cumulative rate

The cumulative rate is the summation of the age-specific rates over each year of age from birth to a defined upper age limit. As age-specific incidence rates are usually computed for five-year age intervals, the cumulative rate is five times the sum of the age-specific rates calculated over the five-year age groups, assuming the age-specific rates are the same for all ages within the five-year age stratum (Bray, 2002).

Quality control was carried out through the following indices:

1. Percentage of morphologically verified cases (%MV) : The percentage of cases where diagnosis was based on cytology or histology examination of tissue from primary site or from metastatic site, bone morrow, cytology and peripheral blood for leukemia.

2. Percentage of death certificate only cases (%DCO) : The percentage of cases where diagnosis was based on information obtained from a death certificate.

Chapter 2

Cancer Incidence in Thailand

Cancer Incidence in Thailand

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The first population-based cancer registry started in 1986 in Chiang Mai, followed by Khon Kaen in 1988, Bangkok in 1990 and Lampang in 1993. The first volume of Cancer in Thailand was published in 1993 with co-operation of the registries of Chiang Mai, Khon Kaen, the National Cancer Institute (Bangkok), and the International Agency for Research on Cancer (Vatanasapt et al., 1993). The second (Deerasamee et al., 1999) and third (Sriptrachea, bronchus and lung et al., 2003) volumes were published in series.

Registration area

Thailand is located in Southeast Asia between latitudes 5:37 N and 20:27 N and between longitudes 97:22 E and 105:37 E, it is bordered to the north by Laos and Myanmar, to the east by Laos and Cambodia, to the south by the Gulf of Thailand and Malaysia, and to the west by the Andaman Sea and Myanmar. Its maritime boundaries include Vietnam in the Gulf of Thailand to the southeast and Indonesia and India in the Andaman Sea to the southwest. The total area is 513,120 square kilometers. The climate of the country as a whole is tropical and characterized by monsoons. Thailand is divided into 77 provinces, within five geographical regions : the Northern, Northeastern, Central, Eastern and Southern. Currently, we have 19 population-based cancer registries but in this volume we used the data from 16 cancer registries to calculate cancer incidence in Thailand. The geographic area cover 16 population-based cancer registries are shown in Figure A, the estimated population in each province by sex is shown in Table A and Mean annual age-standardized incidence rate (ASR) is shown in Table B.

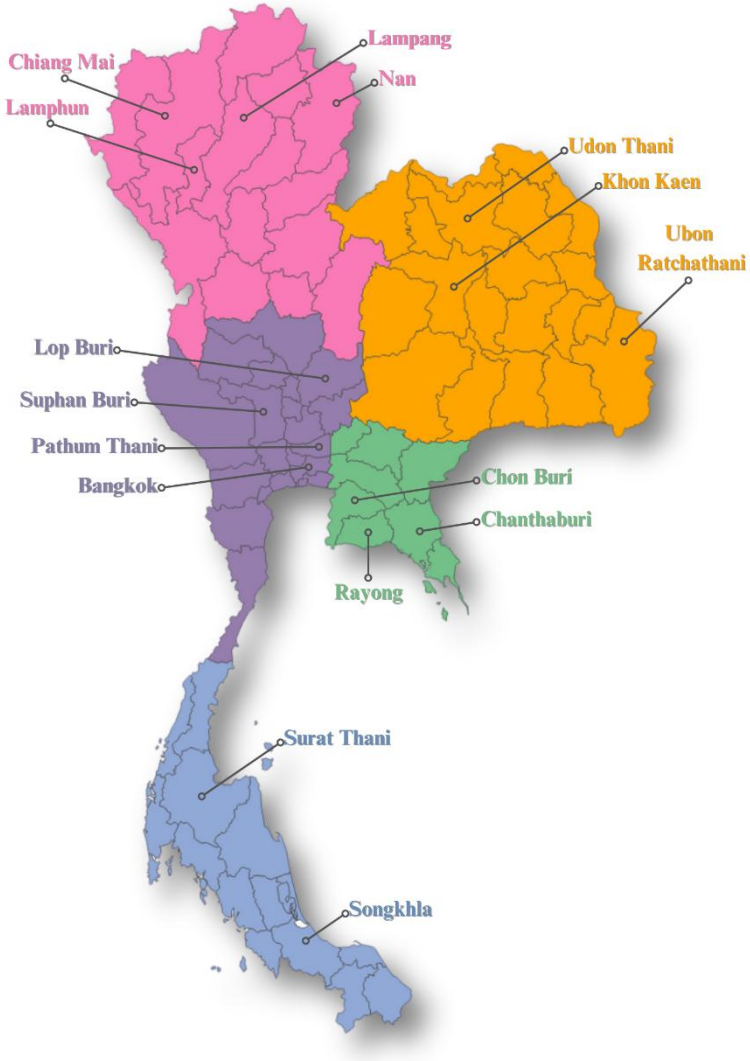
Table A Land area and estimated population in 2020 (2019-2021)

Provinces	Population Density (person / km^2)	Land area (km^2)	Estimated population Male	Estimated population Female
Chiang Mai	81.11	20,107	792,600	838,300
Lampang	57.70	12,534	354,633	368,600
Lamphun	88.63	4,505	192,833	206,433
Nan	37.72	11,472	214,500	218,233
Khon Kaen	156.93	10,886	821,900	886,467
Ubon Ratchathani	106.59	15,745	822,133	856,067
Udon Thani	104.96	11,730	598,367	632,800
Lop Buri	123.70	6,200	383,300	382,567
Suphan Buri	159.86	5,358	413,967	446,233
Pathum Thani	159.86	1,525	705,133	776,967
Bangkok	5,265.81	1,569	3,965,169	4,296,885
Chon Buri	366.29	4,363	767,167	830,967
Rayong	248.20	3,552	443,000	438,600
Chanthaburi	86.22	6,338	266,700	279,733
Surat Thani	78.62	12,891	491,867	521,600
Songkhla	209.88	7,394	750,733	801,133
Thailand	**128.60**	**513,120**	**31,984,069**	**34,004,285**

Table B Mean annual age-standardized incidence rate (ASR per 100,000), all sites, 2019-2021

Province	Male		Female	
	Cases	ASR (per 100,000)	Cases	ASR (per 100,000)
Thailand	**67,667**	**137.6**	**73,122**	**132.9**
Chiang Mai	2,237	174.6	2,255	166.1
Lampang	1,055	145.2	1,026	144.1
Lamphun	559	161.0	567	157.0
Nan	588	145.7	603	147.5
Khon Kaen	1,775	135.6	1,677	119.9
Ubon Ratchathani	1,712	136.6	1,737	137.8
Udon Thani	1,181	133.5	1,242	133.2
Lop Buri	887	144.2	941	147.1
Suphan Buri	1,062	148.0	1,103	139.8
Pathum Thani	1,303	147.2	1,495	138.2
Bangkok	7,484	146.6	8,972	138.0
Chon Buri	1,446	173.3	1,727	164.0
Rayong	774	148.6	767	129.6
Chanthaburi	694	168.9	662	145.8
Surat Thani	843	127.7	923	122.1
Songkhla	1,266	125.7	1,275	111.0

Figure A Thailand regions and area covered by the cancer registries.



Population pyramid, Thailand

estimated population in 2020 (2019-2021)

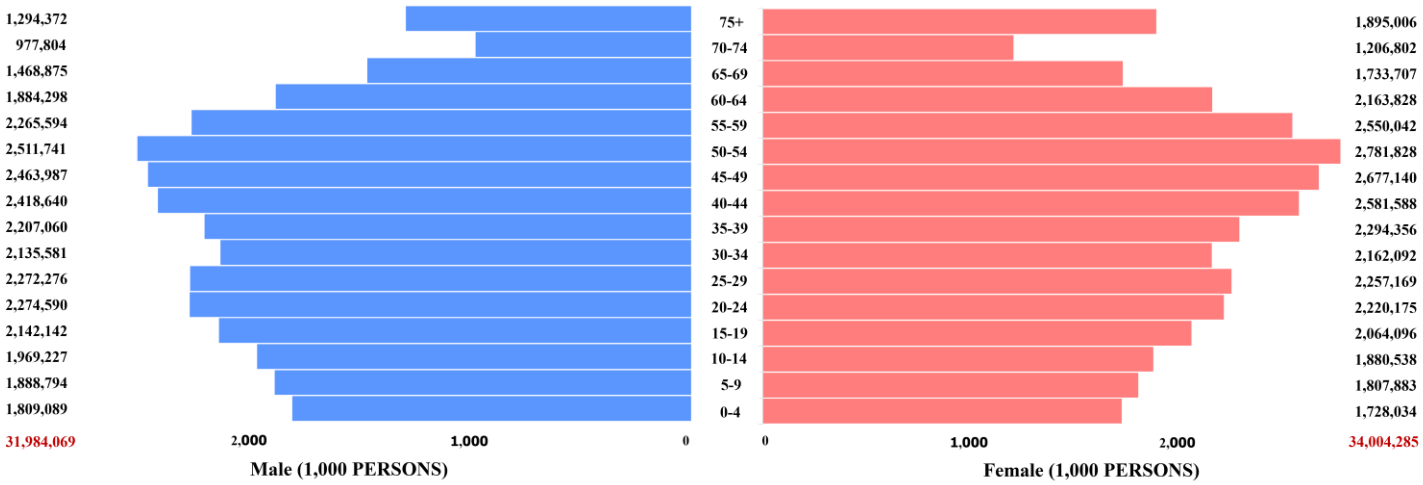


Figure B Mean annual age-standardized incidence rate in Thailand (ASR per 100,000), all sites, 2019-2021

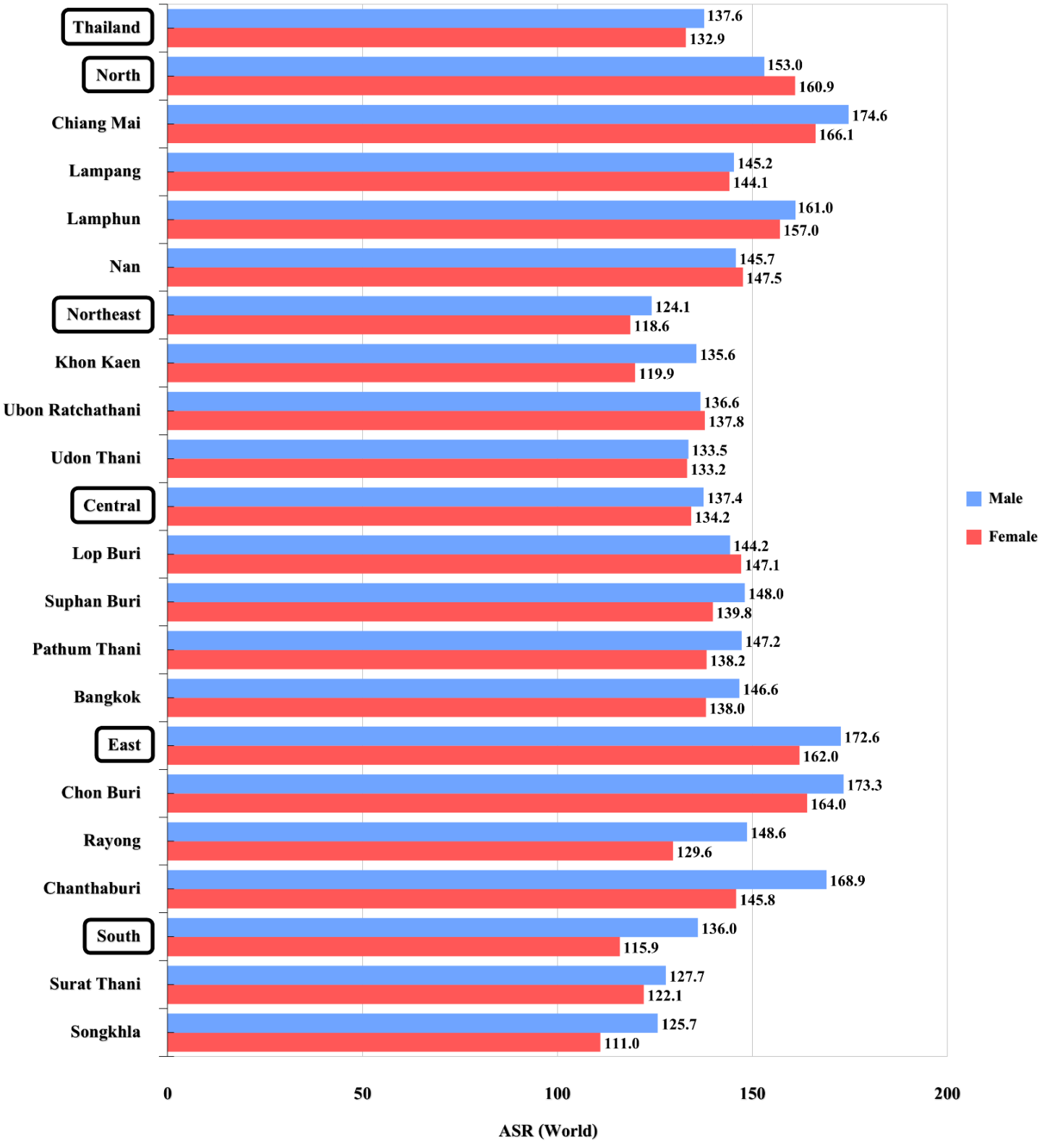
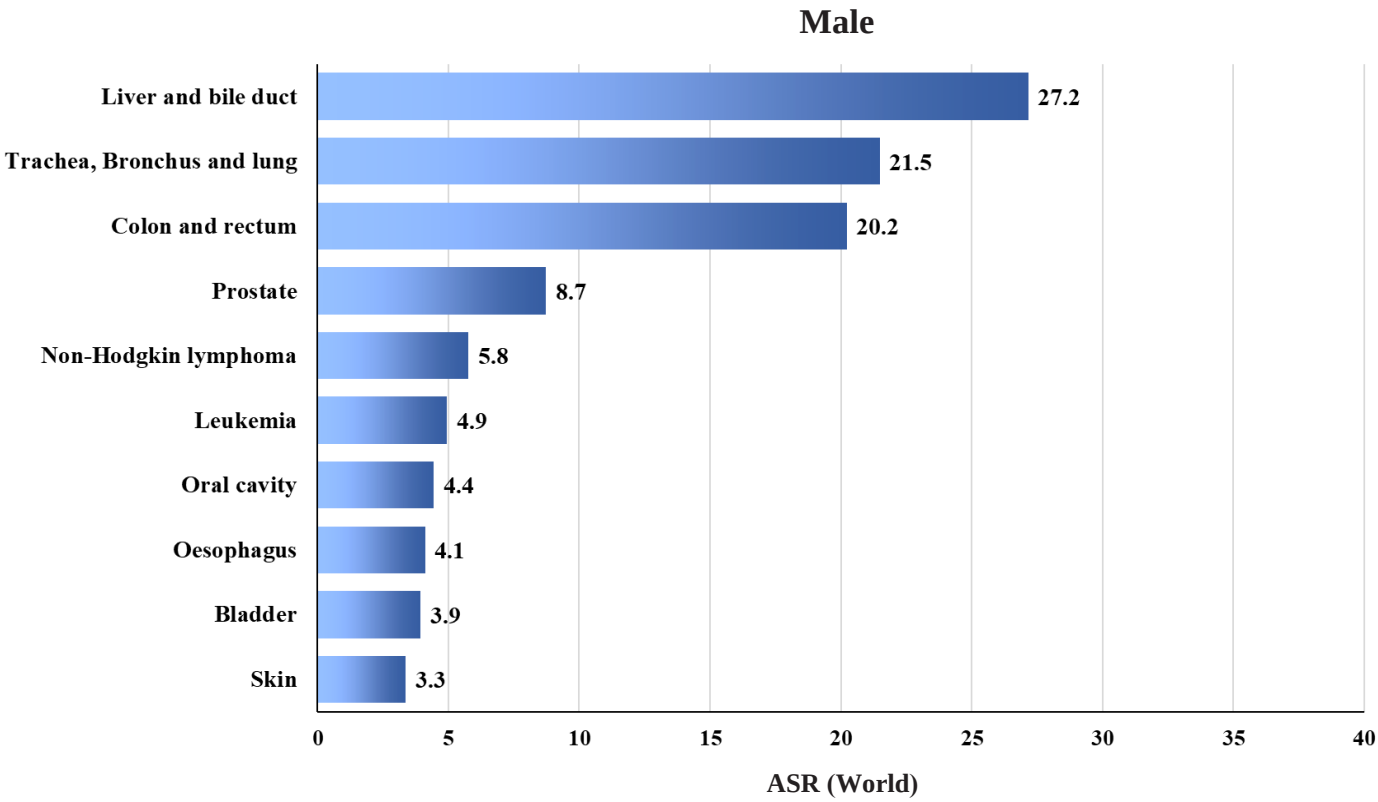


Figure C Leading cancer in Thailand (mean annual ASR 2019-2021)



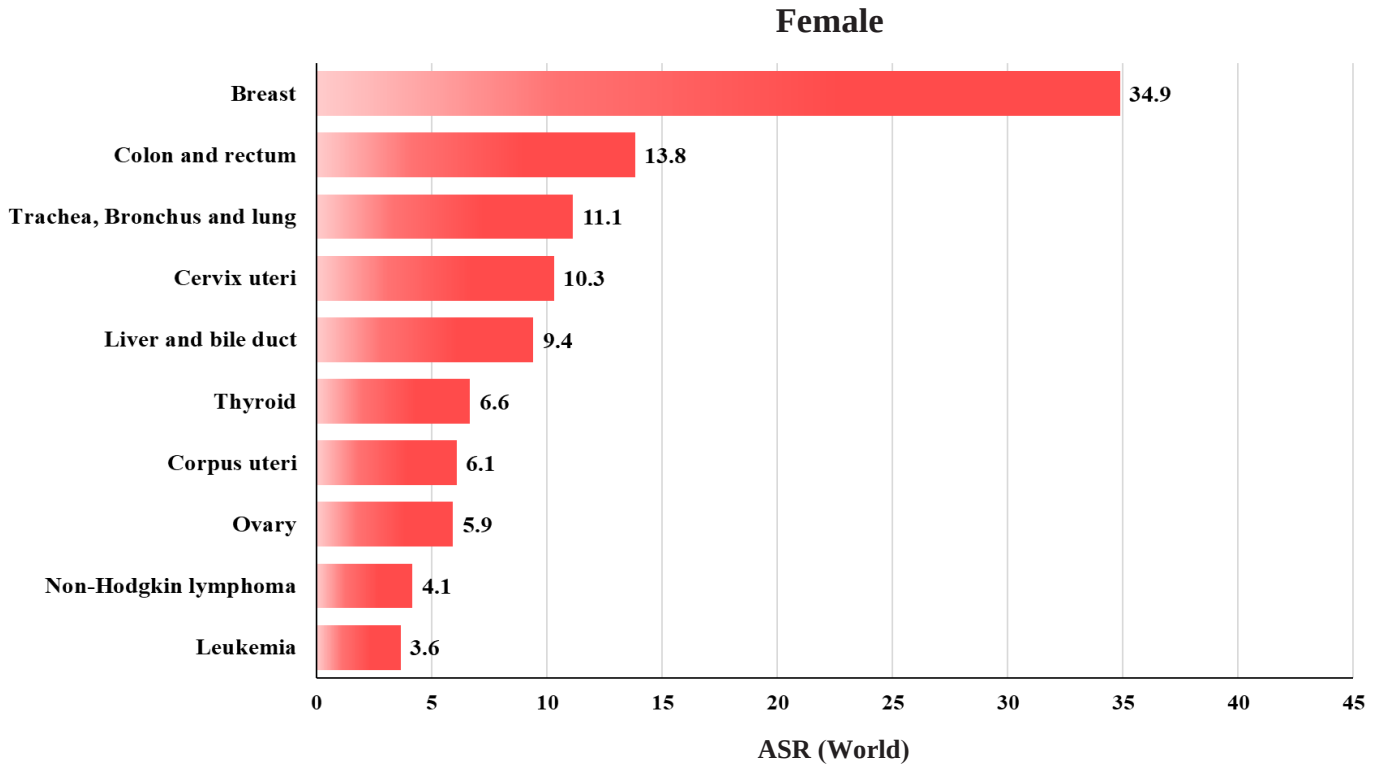


Table C Thailand (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group – Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	41	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.1	0.2	0.5	1.3	0.1	0.1	C00
Tongue	1,078	0.0	0.0	0.0	0.0	0.1	0.2	0.6	1.3	2.3	4.1	6.3	8.0	10.0	9.4	10.5	8.1	3.4	2.2	C01-02
Mouth	814	0.0	0.1	0.0	0.1	0.2	0.1	0.2	0.9	1.7	2.5	3.1	6.1	7.8	6.9	9.8	9.0	2.5	1.7	C03-06
Salivary glands	228	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.4	0.4	0.9	0.8	1.4	1.5	1.9	2.4	3.1	0.7	0.5	C07-08
Tonsil	492	0.1	0.2	0.0	0.0	0.0	0.0	0.1	0.4	1.4	2.2	2.8	4.2	5.1	3.6	3.6	2.7	1.5	1.0	C09
Other oropharynx	290	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	1.2	1.6	2.4	3.3	1.7	2.5	2.5	0.9	0.6	C10
Nasopharynx	1,042	0.0	0.0	0.2	0.6	0.6	0.5	1.4	1.9	4.1	4.8	5.6	6.9	8.8	7.0	8.5	4.8	3.3	2.3	C11
Hypopharynx	657	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	1.2	2.8	2.8	5.4	6.9	5.6	5.5	6.0	2.1	1.3	C12-13
Pharynx unspecified	52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.2	0.4	0.4	0.6	0.8	0.2	0.1	C14
Oesophagus	2,052	0.0	0.0	0.0	0.0	0.1	0.0	0.0	1.0	2.6	6.5	10.6	16.5	20.9	21.6	22.0	18.5	6.4	4.1	C15
Stomach	1,576	0.0	0.0	0.0	0.2	0.1	0.2	0.9	1.4	2.1	3.7	5.3	7.9	14.2	17.4	21.9	25.1	4.9	3.1	C16
Small intestine	232	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.7	0.6	0.8	1.3	1.9	2.7	3.0	2.5	0.7	0.5	C17
Colon	5,796	0.0	0.0	0.3	0.2	0.5	1.8	2.8	4.3	6.5	10.7	16.4	30.6	53.8	68.8	80.7	95.6	18.1	11.5	C18
Rectum	4,225	0.0	0.0	0.2	0.1	0.4	1.0	1.3	3.0	4.9	8.6	14.7	26.6	38.3	54.5	55.9	56.0	13.2	8.4	C19-20
Anus	158	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.5	0.7	0.6	0.6	0.7	1.4	1.1	1.4	1.7	0.5	0.3	C21
Liver and bile duct	13,561	0.7	0.3	0.0	0.3	0.3	1.3	3.8	10.0	18.3	35.8	55.7	89.6	142.0	145.0	163.7	157.8	42.4	27.2	C22,C24
Gallbladder	361	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.3	0.5	0.7	2.0	2.8	3.5	5.4	9.0	1.1	0.7	C23
Pancreas	1,179	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.6	1.6	2.6	4.4	6.4	9.3	14.3	17.5	18.3	3.7	2.3	C25
Nose, sinuses etc.	235	0.0	0.1	0.1	0.0	0.3	0.1	0.3	0.6	0.7	0.7	1.4	1.4	1.9	1.4	2.1	1.8	0.7	0.5	C30-31
Larynx	1,069	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.8	1.2	2.9	4.0	6.5	9.1	11.6	15.0	16.3	3.3	2.1	C32
Trachea, Bronchus and lung	11,060	0.1	0.0	0.0	0.2	0.5	1.0	2.3	5.2	8.6	16.7	27.8	52.1	97.5	140.8	177.8	209.3	34.6	21.5	C33-34
Other thoracic organs	245	0.1	0.0	0.2	0.9	0.6	0.5	0.6	0.4	0.7	0.5	1.2	0.7	1.2	1.6	2.2	2.2	0.8	0.6	C37-38
Bone	373	0.2	0.6	1.8	1.8	1.0	0.9	0.5	0.6	0.2	1.0	1.1	1.4	2.7	2.1	2.0	2.1	1.2	1.1	C40-C41
Melanoma of skin	205	0.0	0.0	0.0	0.2	0.2	0.0	0.1	0.1	0.4	0.4	0.5	0.7	1.6	2.0	2.8	4.4	0.6	0.4	C43
Other skin	1,514	0.0	0.1	0.1	0.1	0.5	0.6	1.2	1.5	1.7	2.0	3.5	5.9	9.6	13.3	19.6	41.8	4.7	2.9	C44
Mesothelioma	33	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.4	0.2	0.3	0.5	0.1	0.1	C45
Kaposi's sarcoma	46	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.4	0.1	0.2	0.1	0.1	0.3	0.2	0.2	0.0	0.1	0.1	C46
Connective tissue	479	0.3	0.5	0.5	0.3	0.5	0.6	0.7	1.0	0.9	1.6	2.4	2.1	3.1	4.1	4.2	4.4	1.5	1.1	C47,C49
Breast	169	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.2	0.3	0.5	0.6	1.2	1.1	1.7	1.7	2.3	0.5	0.3	C50
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58
Penis	401	0.1	0.0	0.0	0.0	0.1	0.2	0.1	0.5	0.9	1.0	1.3	2.1	3.2	4.0	5.8	6.1	1.3	0.8	C60
Prostate	4,701	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.3	0.9	2.8	8.9	32.9	63.4	103.5	141.4	14.7	8.7	C61
Testis	241	0.4	0.2	0.3	0.7	1.0	1.5	1.7	1.3	0.5	0.7	0.5	0.4	0.6	0.4	0.8	0.9	0.8	0.7	C62
Other male genital organs	44	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.6	1.0	0.1	0.1	C63
Kidney	884	0.6	0.1	0.0	0.0	0.1	0.2	0.7	0.7	1.7	2.1	2.8	4.4	9.7	10.0	12.2	9.4	2.8	1.9	C64
Renal pelvis	81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.5	0.6	0.8	1.7	1.4	0.3	0.2	C65
Ureter	70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.5	0.4	1.1	0.9	1.6	0.2	0.1	C66
Bladder	2,076	0.1	0.0	0.0	0.0	0.0	0.1	0.4	0.3	1.1	2.4	3.6	8.2	15.8	21.3	37.4	55.3	6.5	3.9	C67
Other urinary organs	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.5	0.2	0.1	0.0	C68
Eye	81	0.5	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.3	0.3	0.1	0.2	0.3	0.8	0.8	1.2	0.3	0.2	C69
Brain, nervous system	844	1.1	1.4	1.9	0.7	0.5	0.9	1.6	1.6	2.1	3.7	3.0	3.9	4.6	7.1	6.3	6.6	2.6	2.1	C70-72
Thyroid	666	0.0	0.1	0.1	0.5	0.8	1.1	1.4	2.3	2.8	2.2	2.3	3.2	4.0	4.5	5.7	6.1	2.1	1.5	C73
Adrenal gland	62	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.4	0.6	0.4	0.4	0.1	0.2	0.2	C74
Other endocrine	54	0.1	0.2	0.6	0.4	0.1	0.1	0.0	0.0	0.2	0.0	0.0	0.1	0.2	0.1	0.2	0.2	0.2	0.2	C75
Hodgkin disease	202	0.1	0.5	0.2	0.6	0.6	0.8	0.9	0.7	0.4	0.6	0.5	0.7	1.0	0.9	1.3	0.7	0.6	0.6	C81
Non-Hodgkin lymphoma	2,634	0.5	1.3	1.2	1.5	2.3	3.2	3.2	3.7	4.2	6.4	8.0	12.9	18.7	27.7	32.4	34.1	8.2	5.8	C82-85,C96
Multiple myeloma	610	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.4	0.3	1.0	2.0	3.5	6.1	7.9	9.2	8.6	1.9	1.2	C90
Lymphoid leukemia	429	2.5	3.4	1.9	1.2	0.6	0.3	0.4	0.5	0.9	0.4	0.8	1.1	2.2	2.2	2.2	3.1	1.3	1.5	C91
Myeloid leukemia	1,060	1.1	1.1	1.1	1.1	0.9	1.1	2.0	2.0	2.6	2.0	2.7	4.6	7.7	8.9	10.1	14.1	3.3	2.5	C92-94
Leukemia unspecified	384	0.7	0.6	0.5	0.7	0.4	0.4	0.5	0.7	0.8	0.8	1.1	1.1	1.5	2.6	5.1	6.3	1.2	0.9	C95
Myelodysplastic disease	607	0.6	0.0	0.1	0.2	0.2	0.4	0.5	0.7	1.2	1.2	1.8	2.4	4.0	5.1	7.9	13.1	1.9	1.3	D45-D47
Other and unspecified	2,252	0.2	0.2	0.3	0.6	0.7	1.4	1.6	1.9	3.4	4.6	7.6	12.1	16.5	23.4	30.7	37.9	7.0	4.6	O&U
All sites	**67,667**	**11.1**	**11.5**	**11.9**	**13.5**	**14.4**	**22.2**	**34.8**	**55.5**	**88.2**	**145.9**	**217.0**	**360.2**	**588.0**	**737.8**	**918.9**	**1,057.3**	**211.6**	**137.6**	**ALL**

Table D Thailand (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group – Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	188	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.2	0.1	0.1	0.2	0.2	0.5	1.4	2.9	5.0	0.6	0.3	C00
Tongue	497	0.0	0.0	0.0	0.0	0.2	0.2	0.7	0.8	1.2	1.7	1.7	2.6	3.0	4.0	3.6	4.7	1.5	0.9	C01-02
Mouth	599	0.1	0.0	0.0	0.2	0.1	0.3	0.3	0.5	0.5	0.5	1.3	1.9	3.4	4.1	7.7	11.4	1.8	1.0	C03-06
Salivary glands	211	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.6	0.5	0.5	0.8	1.2	1.1	1.2	1.4	1.6	0.6	0.4	C07-08
Tonsil	88	0.1	0.0	0.0	0.1	0.1	0.1	0.3	0.1	0.3	0.2	0.3	0.4	0.7	0.4	0.5	0.6	0.3	0.2	C09
Other oropharynx	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.4	0.3	0.4	0.3	0.1	0.1	C10
Nasopharynx	456	0.0	0.1	0.0	0.2	0.2	0.2	1.0	1.2	1.4	2.2	2.0	2.1	2.9	2.6	3.1	2.1	1.3	0.9	C11
Hypopharynx	53	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.4	0.3	0.3	0.4	0.5	0.4	0.2	0.1	C12-13
Pharynx unspecified	22	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.2	0.4	0.1	0.0	C14
Oesophagus	306	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.2	0.7	0.8	1.4	1.7	2.4	3.7	4.8	0.9	0.5	C15
Stomach	1,430	0.0	0.0	0.0	0.0	0.1	0.9	1.1	2.7	2.9	3.7	4.7	7.0	8.9	12.2	13.2	14.5	4.2	2.5	C16
Small intestine	191	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.4	0.6	1.3	1.1	2.4	1.8	1.7	0.6	0.3	C17
Colon	5,264	0.0	0.0	0.1	0.4	0.5	1.1	2.3	4.3	5.9	11.3	17.1	23.2	37.9	44.6	52.6	69.4	15.5	8.7	C18
Rectum	2,902	0.0	0.0	0.0	0.0	0.3	0.5	1.1	2.4	3.7	6.7	11.5	15.6	22.2	24.5	29.2	29.2	8.5	4.9	C19-20
Anus	126	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.3	0.3	0.6	0.5	0.7	1.5	0.8	1.2	0.4	0.2	C21
Liver and bile duct	5,930	0.3	0.1	0.1	0.1	0.1	0.3	0.8	2.2	3.8	8.6	13.4	25.7	42.2	57.6	74.9	88.2	17.4	9.4	C22,C24
Gallbladder	491	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.6	0.6	2.1	3.1	4.5	6.6	8.7	1.4	0.8	C23
Pancreas	1,120	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.7	1.6	2.9	4.4	7.6	10.2	11.5	19.1	3.3	1.8	C25
Nose, sinuses etc.	146	0.1	0.0	0.1	0.1	0.1	0.1	0.3	0.1	0.4	0.6	0.6	0.3	0.7	0.8	1.3	1.8	0.4	0.3	C30-31
Larynx	90	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.3	0.5	0.6	0.7	1.6	0.9	0.3	0.1	C32
Trachea, Bronchus and lung	6,887	0.0	0.0	0.1	0.1	0.6	0.5	1.9	3.5	6.2	11.5	19.1	30.5	49.4	64.8	83.6	92.7	20.3	11.1	C33-34
Other thoracic organs	175	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.3	1.1	1.4	1.0	0.5	0.4	C37-38
Bone	336	0.3	0.8	1.1	0.9	0.7	0.5	0.8	0.4	0.7	0.4	0.7	0.8	1.9	1.5	2.0	3.3	1.0	0.8	C40-C41
Melanoma of skin	218	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.5	0.2	0.7	0.7	1.3	2.1	2.2	3.2	0.6	0.4	C43
Other skin	1,840	0.1	0.0	0.1	0.3	0.5	0.4	0.8	1.1	1.1	2.4	3.2	6.2	7.8	13.1	19.1	42.2	5.4	2.8	C44
Mesothelioma	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.0	C45
Kaposi's sarcoma	18	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	C46
Connective tissue	431	0.3	0.4	0.1	0.2	0.6	0.7	0.6	1.0	1.1	1.4	1.4	2.2	2.4	2.4	2.5	3.4	1.3	0.9	C47,C49
Breast	18,421	0.1	0.0	0.1	0.2	1.7	5.5	19.0	39.9	67.0	95.6	101.2	114.7	119.4	106.8	100.2	65.9	54.2	34.9	C50
Vulva	202	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.3	0.3	0.3	1.0	1.5	1.6	1.6	3.3	0.6	0.3	C51
Vagina	96	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.4	0.4	0.3	0.9	0.4	1.2	1.1	0.3	0.2	C52
Cervix uteri	5,219	0.0	0.0	0.0	0.0	0.9	4.9	14.5	17.7	20.3	24.1	25.5	28.5	29.1	24.6	22.6	22.9	15.3	10.3	C53
Corpus uteri	3,357	0.0	0.0	0.0	0.0	0.3	1.0	3.2	4.1	5.9	9.2	15.3	25.2	31.8	26.8	24.5	13.0	9.9	6.1	C54
Uterus unspecified	267	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.8	0.5	1.2	1.7	1.4	1.7	1.6	1.5	1.4	0.8	0.5	C55
Ovary	2,964	0.1	0.2	1.3	2.6	2.0	3.3	3.2	6.1	9.0	12.2	14.3	17.5	17.3	19.0	16.7	13.0	8.7	5.9	C56
Other female genital organs	112	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.6	0.4	0.5	1.1	1.4	0.6	0.3	0.3	0.2	C57
Placenta	61	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C58
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63
Kidney	451	0.8	0.1	0.0	0.1	0.0	0.3	0.5	0.5	0.6	0.9	1.4	2.5	3.3	2.6	3.6	5.4	1.3	0.8	C64
Renal pelvis	48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.2	0.4	0.3	0.8	0.9	0.1	0.1	C65
Ureter	68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.2	0.4	0.6	0.9	1.5	0.2	0.1	C66
Bladder	642	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.5	0.6	0.8	2.1	3.7	6.1	7.7	12.7	1.9	1.0	C67
Other urinary organs	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.2	0.0	0.0	C68
Eye	59	1.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.2	0.0	0.4	0.2	0.7	0.2	0.2	C69
Brain, nervous system	920	1.1	1.8	0.7	0.7	0.6	1.1	1.5	1.7	2.5	3.8	4.0	3.9	4.6	4.9	5.6	5.3	2.7	2.1	C70-72
Thyroid	3,022	0.1	0.0	1.1	2.3	4.2	7.6	11.4	12.0	11.7	13.8	12.4	12.7	13.4	12.0	11.6	9.9	8.9	6.6	C73
Adrenal gland	43	0.3	0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.2	0.2	0.1	0.2	0.4	0.1	0.1	0.1	C74
Other endocrine	25	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.0	0.1	0.1	C75
Hodgkin disease	181	0.1	0.1	0.3	1.1	1.0	1.2	0.7	0.5	0.4	0.2	0.2	0.4	0.6	0.7	0.9	0.3	0.5	0.5	C81
Non-Hodgkin lymphoma	2,233	0.9	0.7	0.3	0.8	1.7	1.9	2.4	2.5	3.3	5.8	6.3	10.4	14.5	17.8	22.6	21.9	6.6	4.1	C82-85,C96
Multiple myeloma	561	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.3	0.7	1.7	3.2	5.3	5.2	6.9	5.5	1.7	0.9	C90
Lymphoid leukemia	316	3.6	2.1	1.1	0.6	0.6	0.3	0.2	0.2	0.5	0.3	0.4	0.9	1.2	1.2	1.7	1.7	0.9	1.1	C91
Myeloid leukemia	853	1.5	0.4	0.9	1.0	0.7	0.9	1.0	1.9	1.7	1.9	2.1	3.1	5.4	5.8	6.0	8.4	2.5	1.8	C92-94
Leukemia unspecified	301	0.7	0.6	0.2	0.4	0.3	0.1	0.5	0.5	0.4	0.6	0.6	1.3	1.3	2.1	2.2	3.5	0.9	0.7	C95
Myelodysplastic disease	660	0.4	0.1	0.1	0.1	0.1	0.3	0.6	0.6	0.8	1.2	1.5	2.4	3.0	5.1	8.4	10.9	1.9	1.1	D45-D47
Other and unspecified	1,951	0.5	0.1	0.2	0.5	0.5	0.8	1.1	2.1	2.6	3.4	4.6	9.3	11.8	16.6	19.1	27.9	5.7	3.3	O&U
All sites	**73,122**	**12.8**	**8.1**	**8.4**	**14.0**	**20.2**	**36.9**	**75.0**	**115.5**	**162.1**	**234.8**	**281.4**	**374.6**	**475.8**	**524.9**	**596.1**	**649.8**	**215.0**	**132.9**	**ALL**

Chapter 2

Cancer Incidence in Leading Sites

2.1 Oral cavity

Figure 2.1.1 Oral cavity cancer in different regions, mean annual ASR per 100,000 (2019-2021)

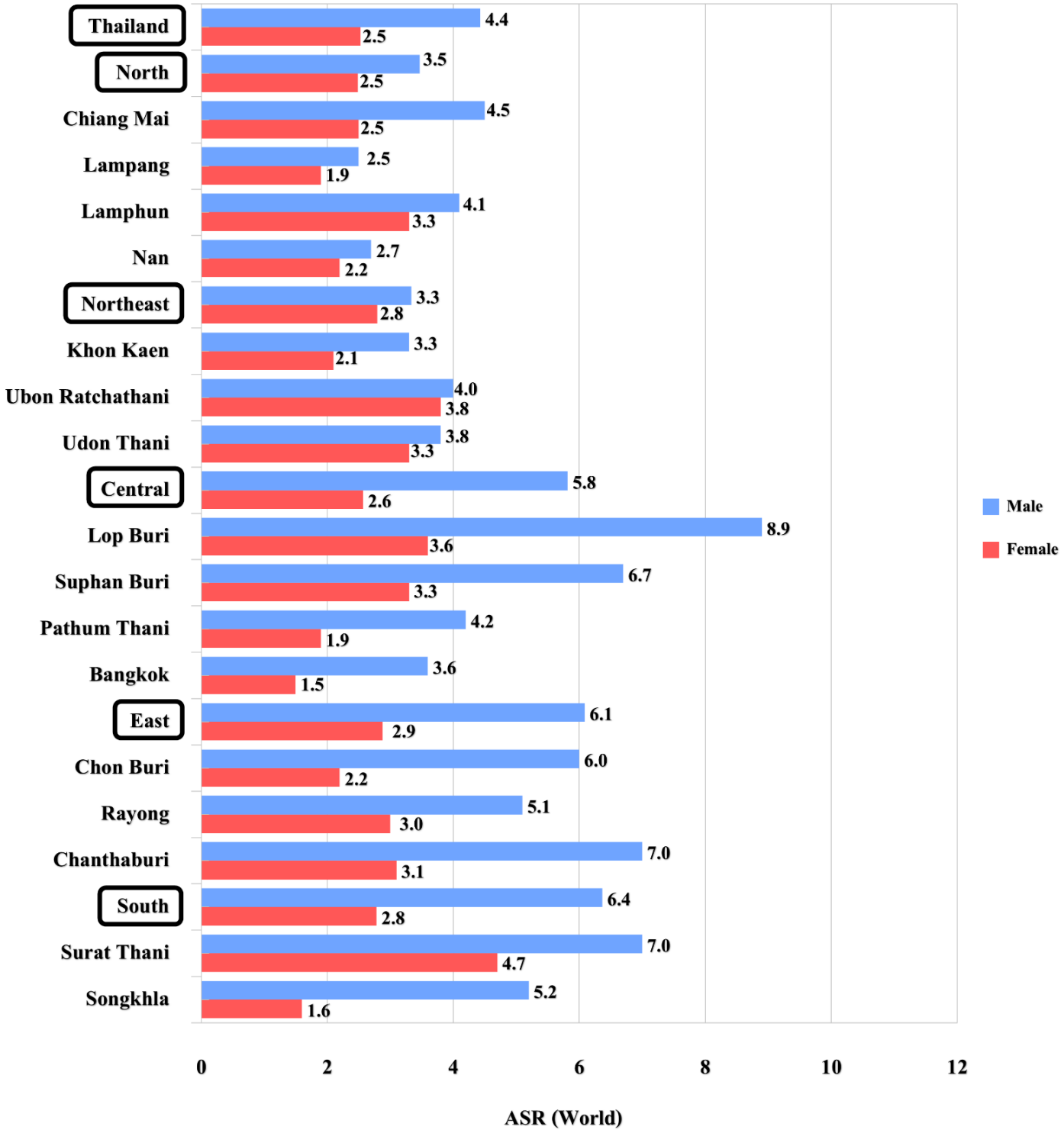


Figure 2.1.2 Age - specific incidence rates of oral cavity cancer, mean annual rate per 100,000 (2019-2021)

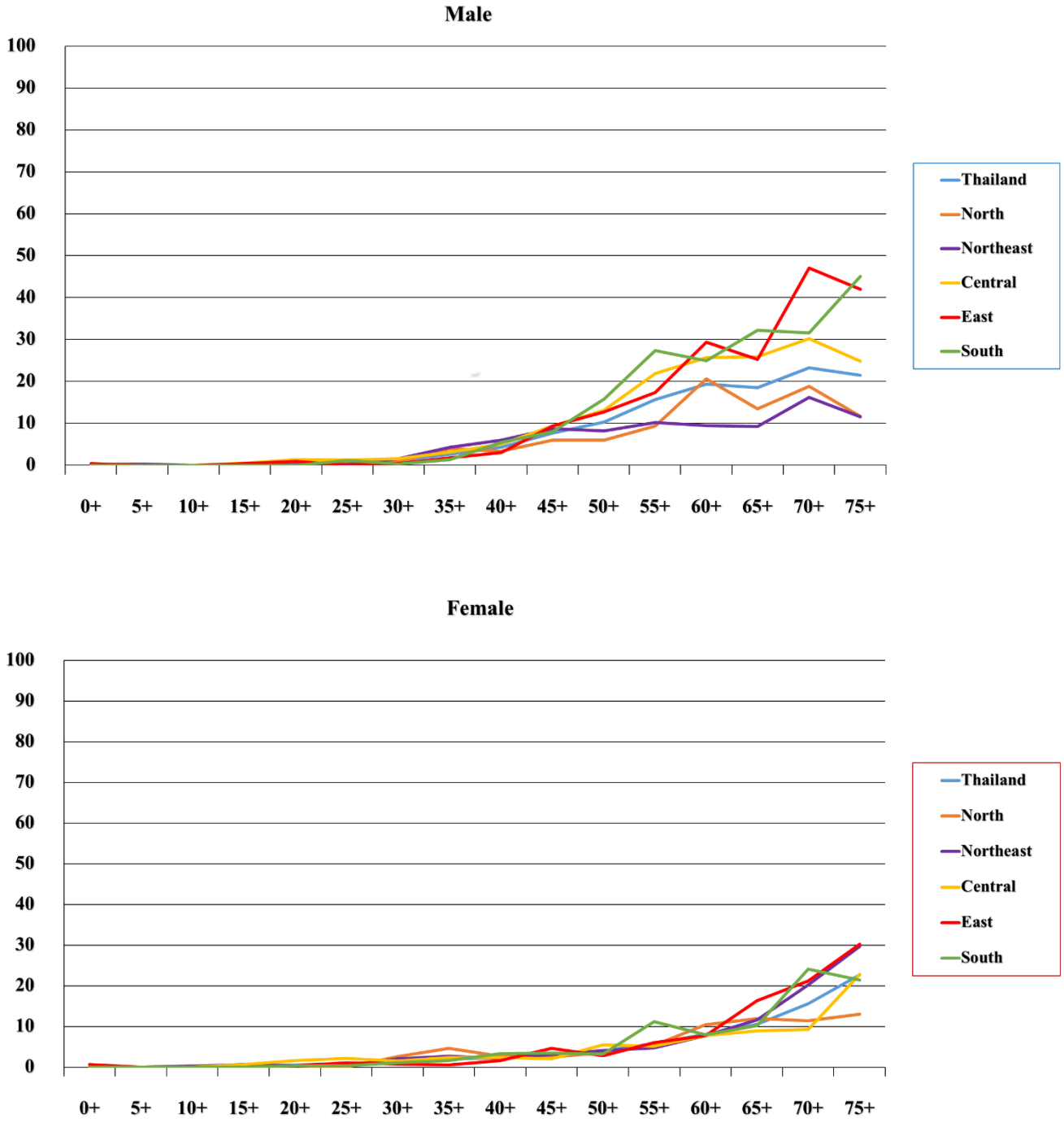
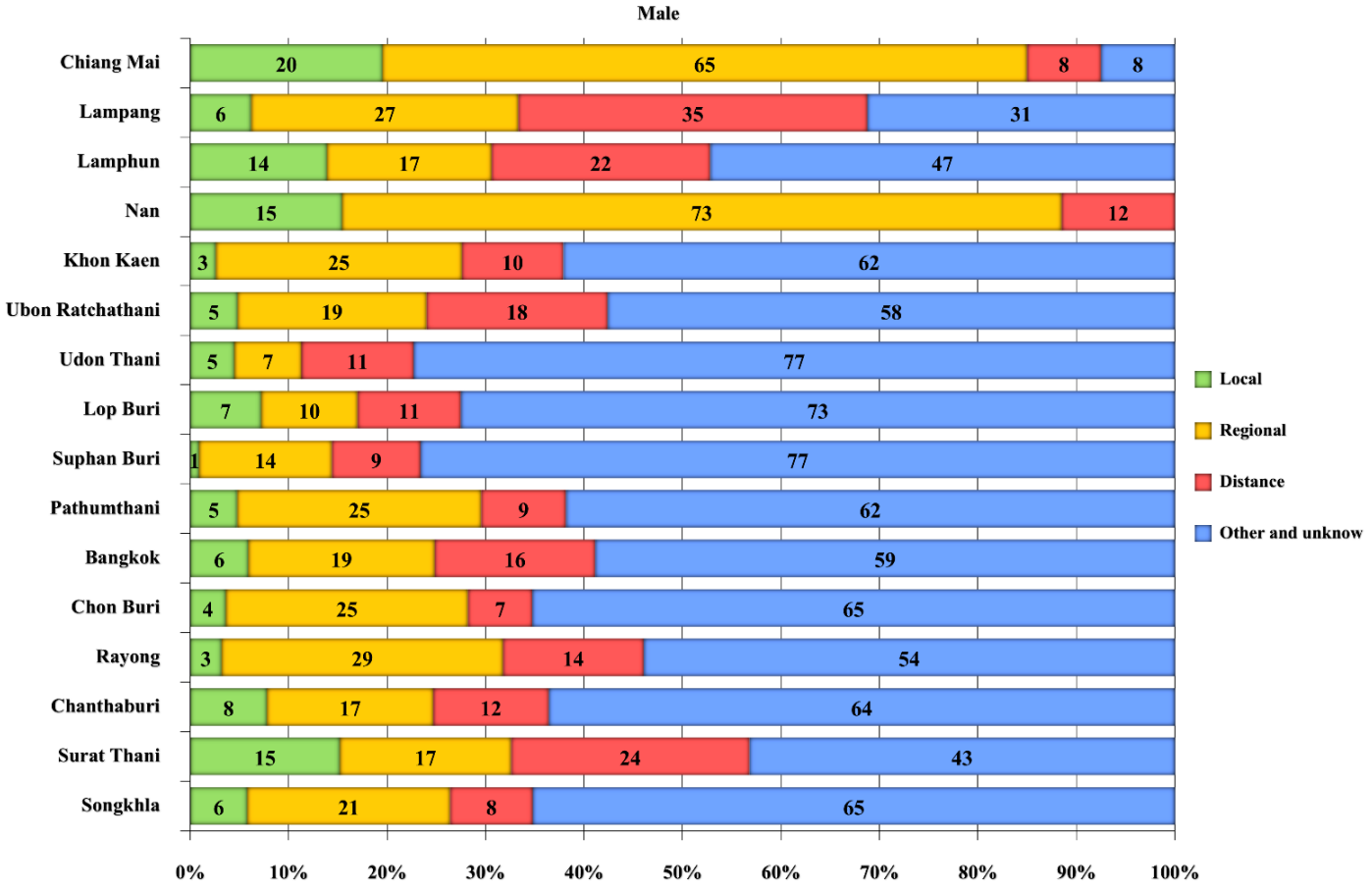
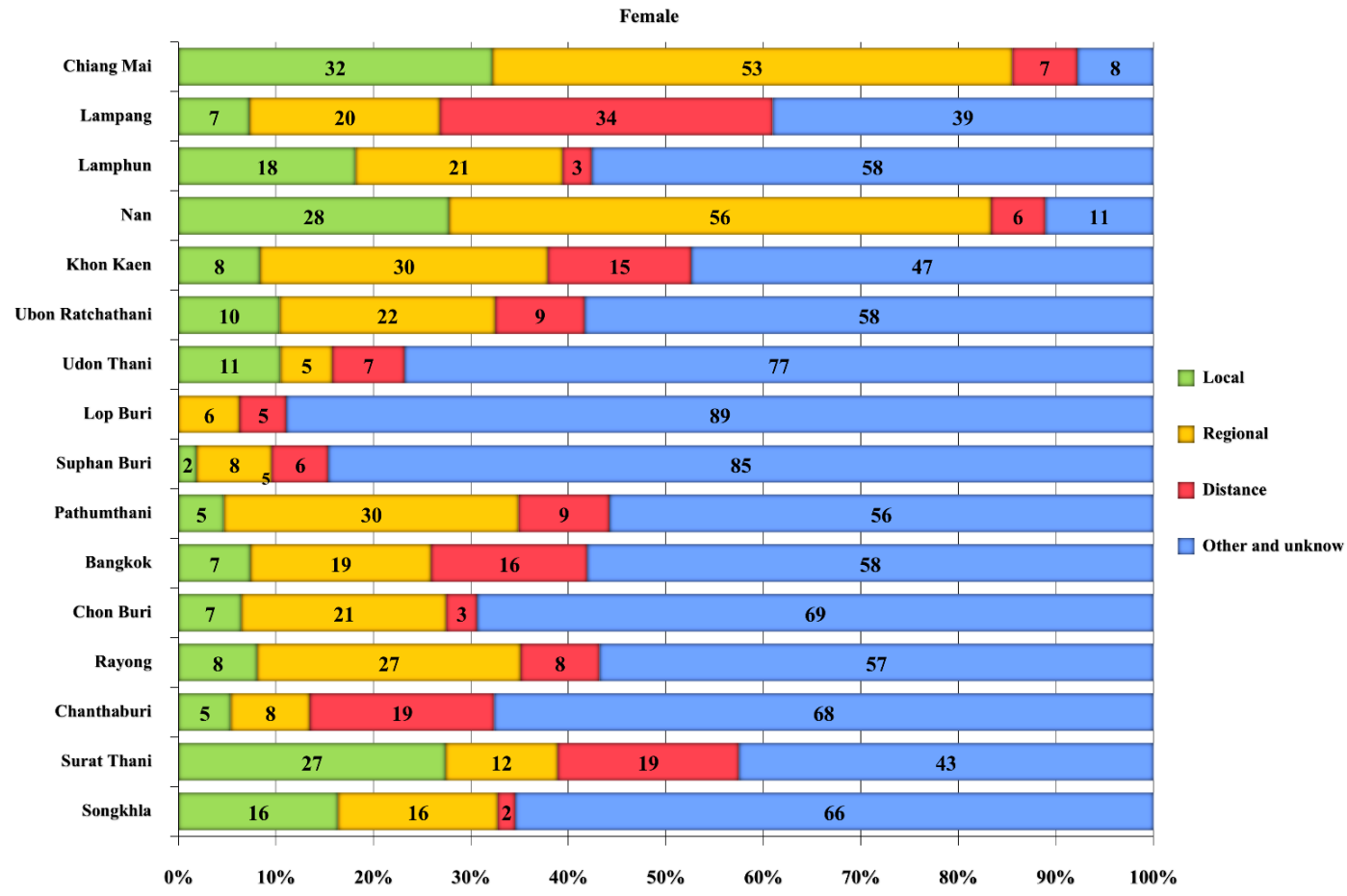


Figure 2.1.3 Stage distribution of oral cavity cancer (2019-2021)





2.2 Oropharynx

Figure 2.2.1 Oropharynx cancer in different regions, mean annual ASR per 100,000 (2019-2021)

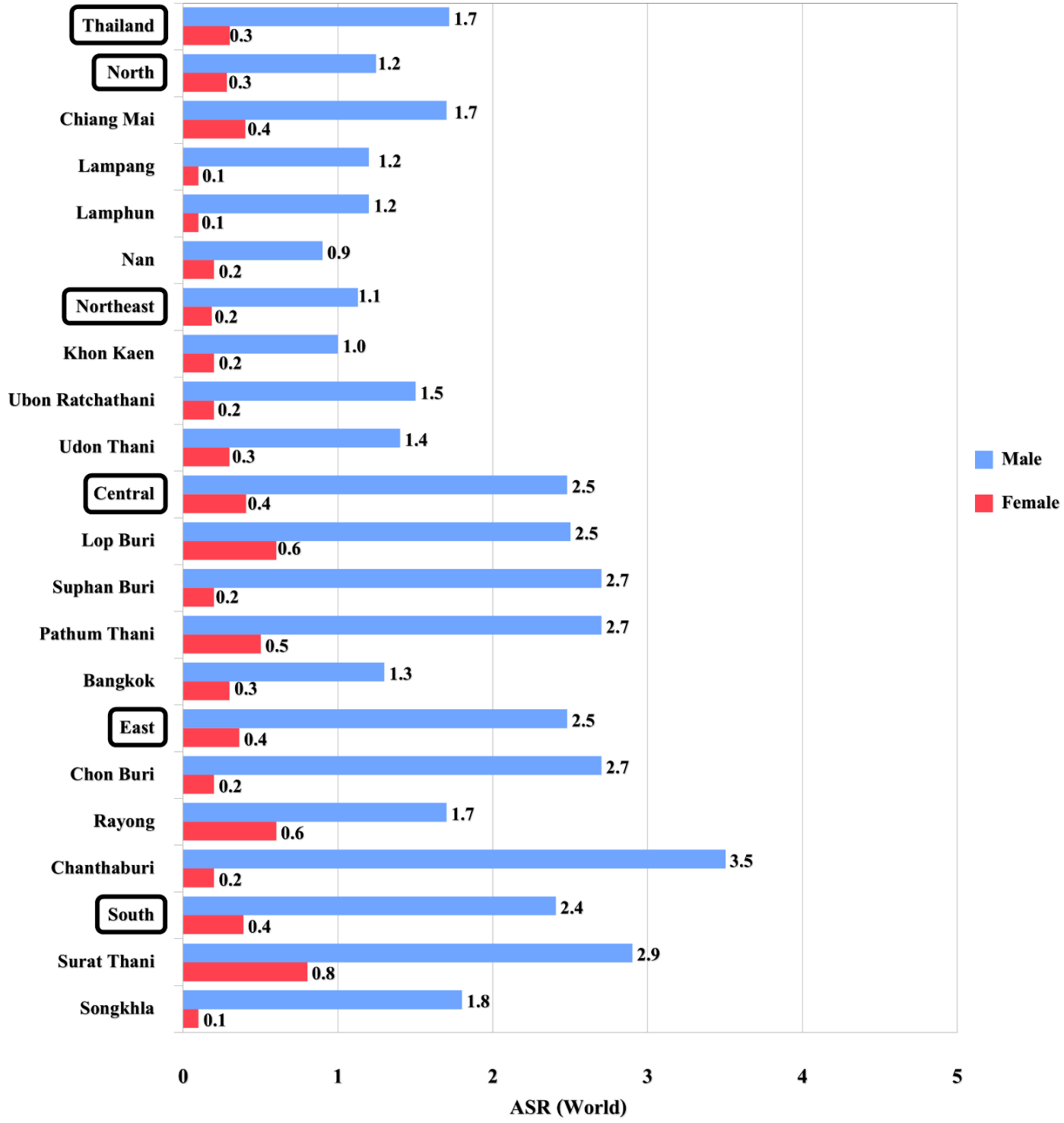
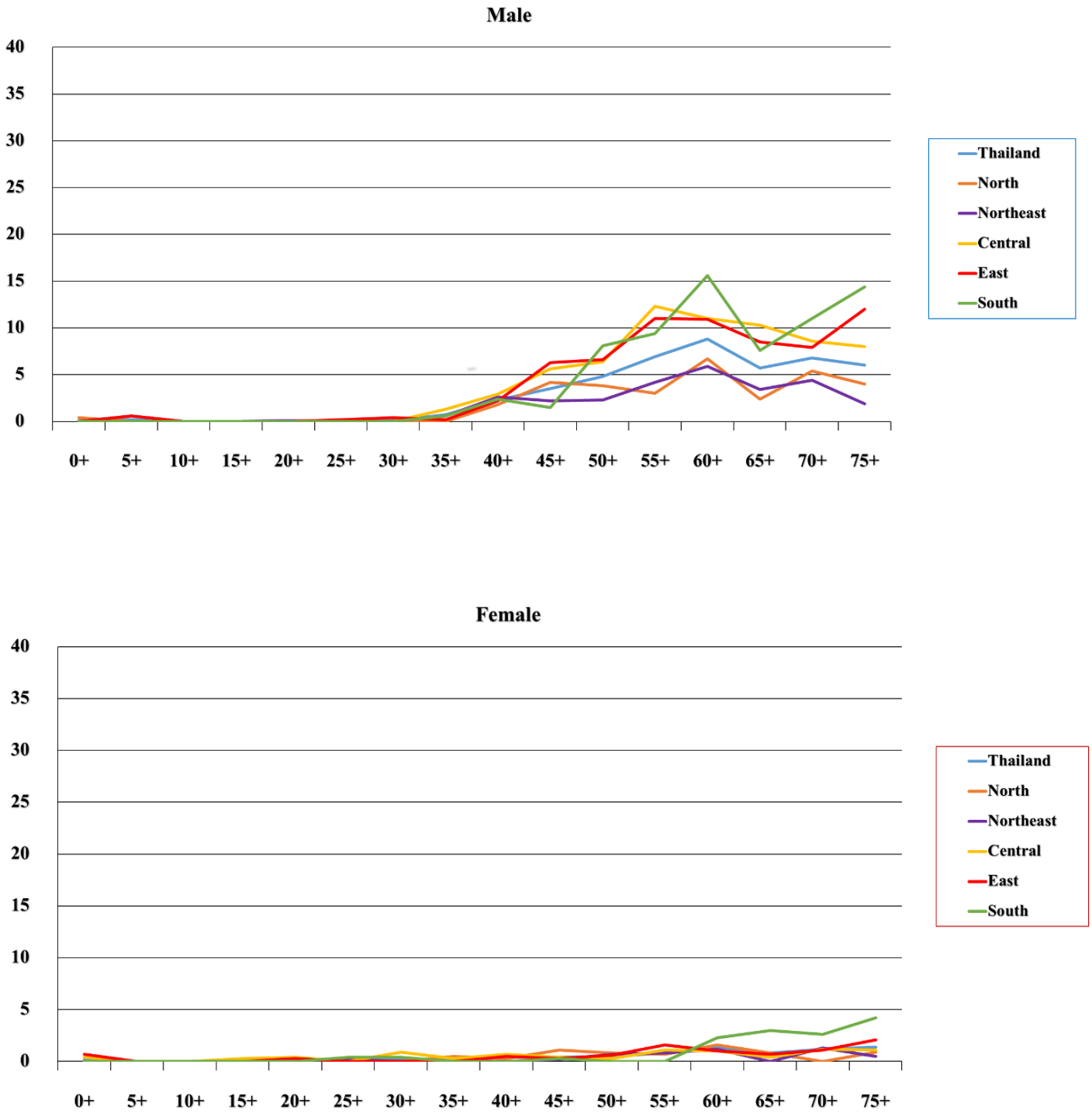


Figure 2.2.2 Age - specific incidence rates of oropharynx cancer, mean annual rate per 100,000 (2019-2021)



2.3 Nasopharynx

Figure 2.3.1 Nasopharynx cancer in different regions, mean annual ASR per 100,000 (2019-2021)

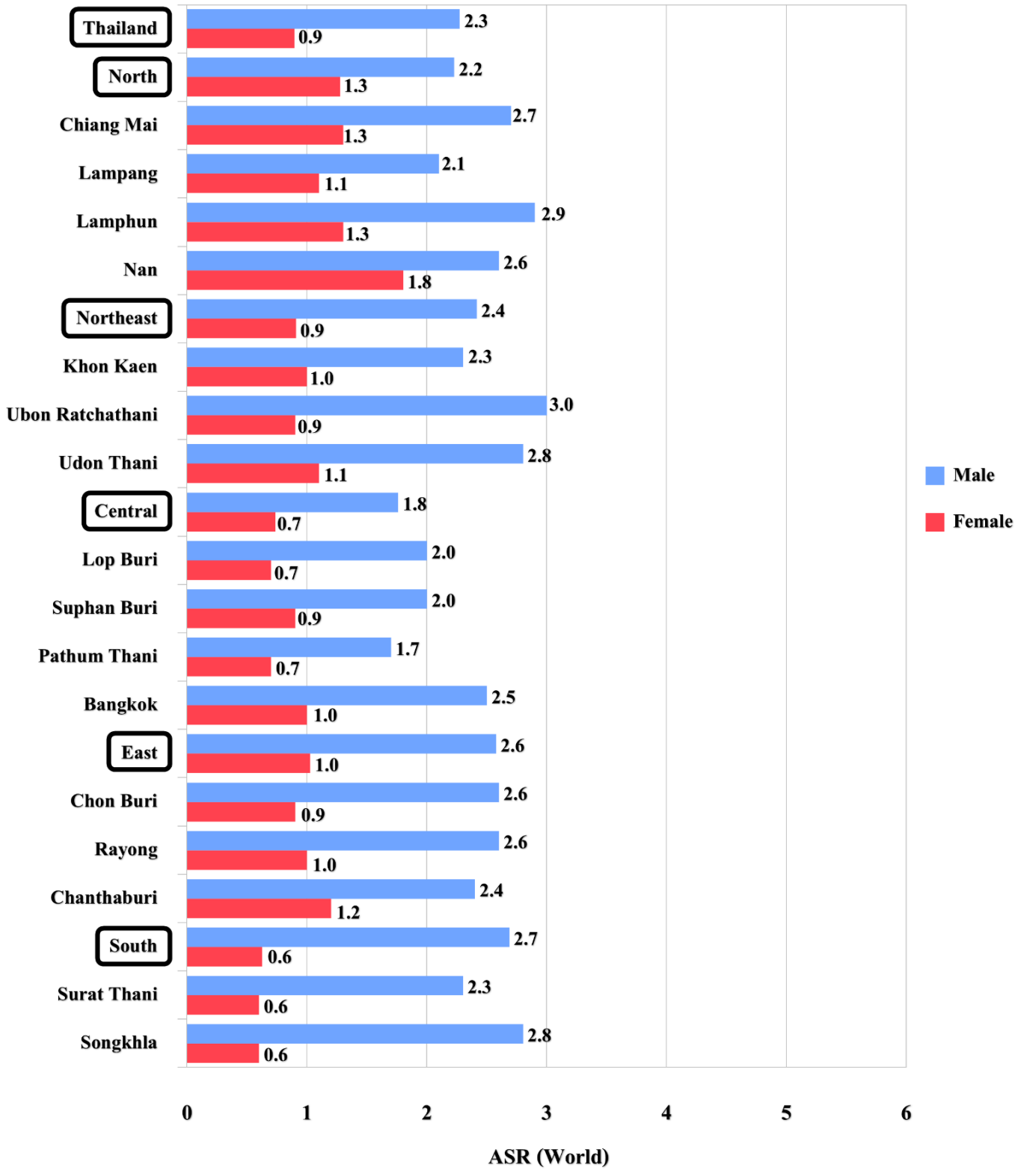
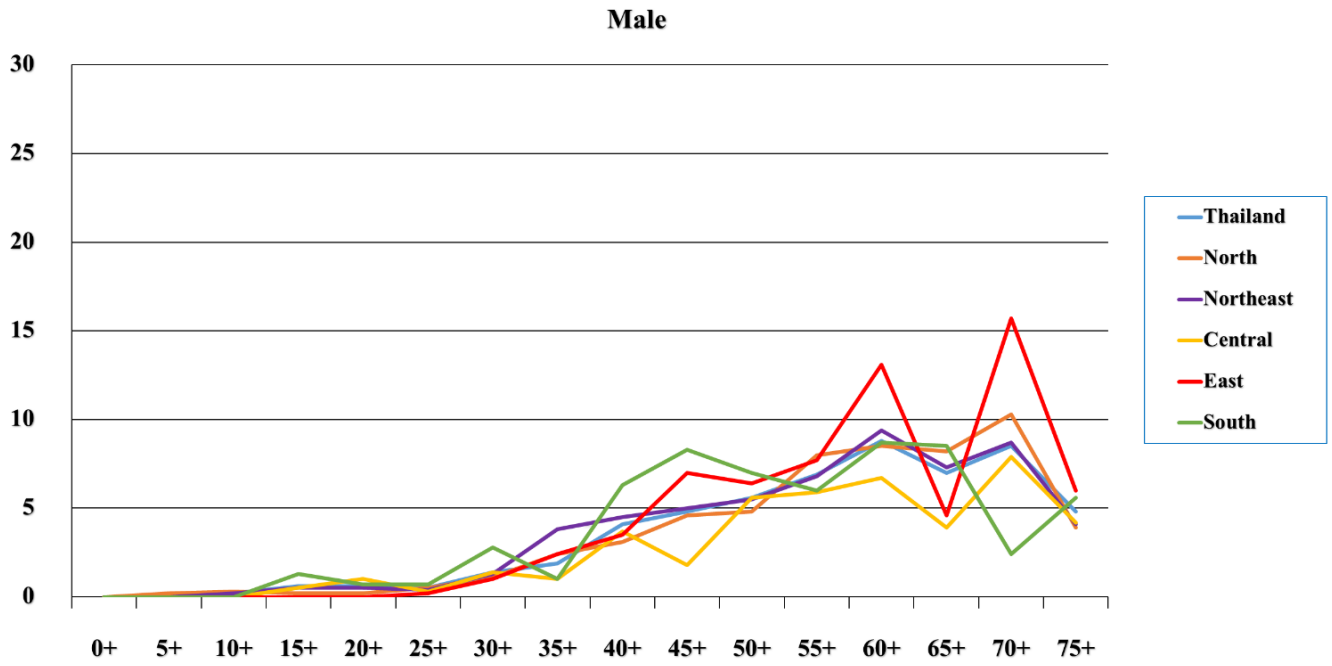


Figure 2.3.2 Age - specific incidence rates of nasopharynx cancer, mean annual rate per 100,000 (2019-2021)



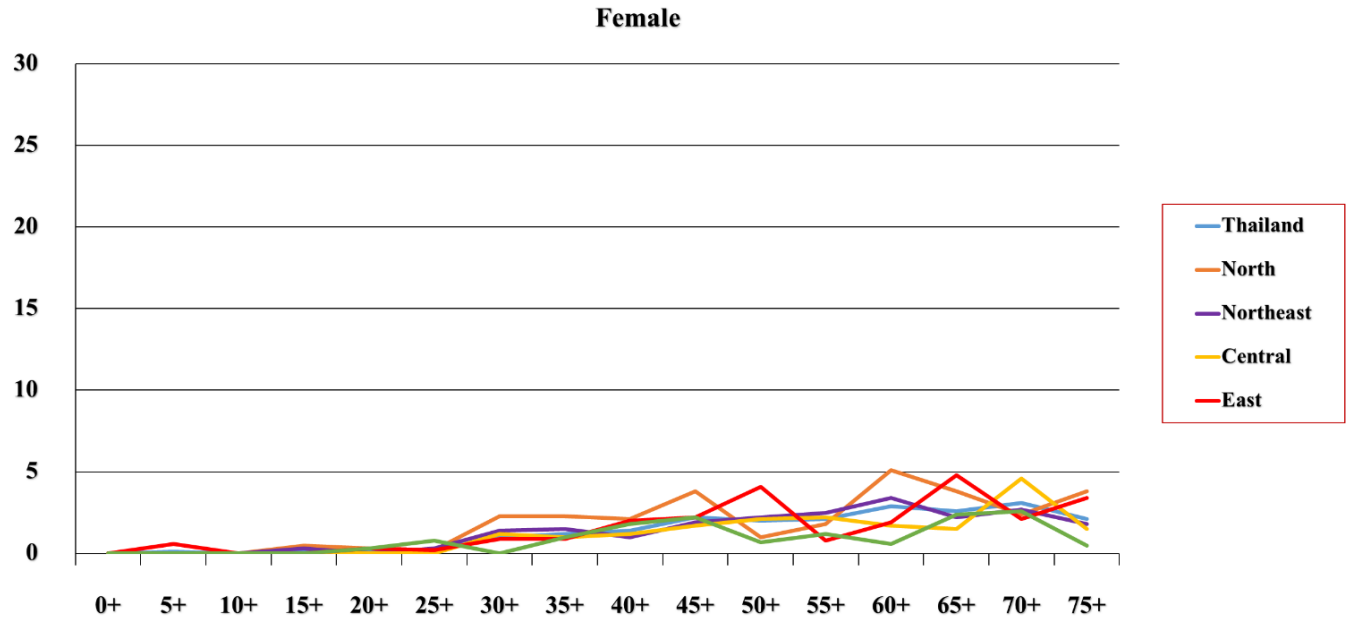
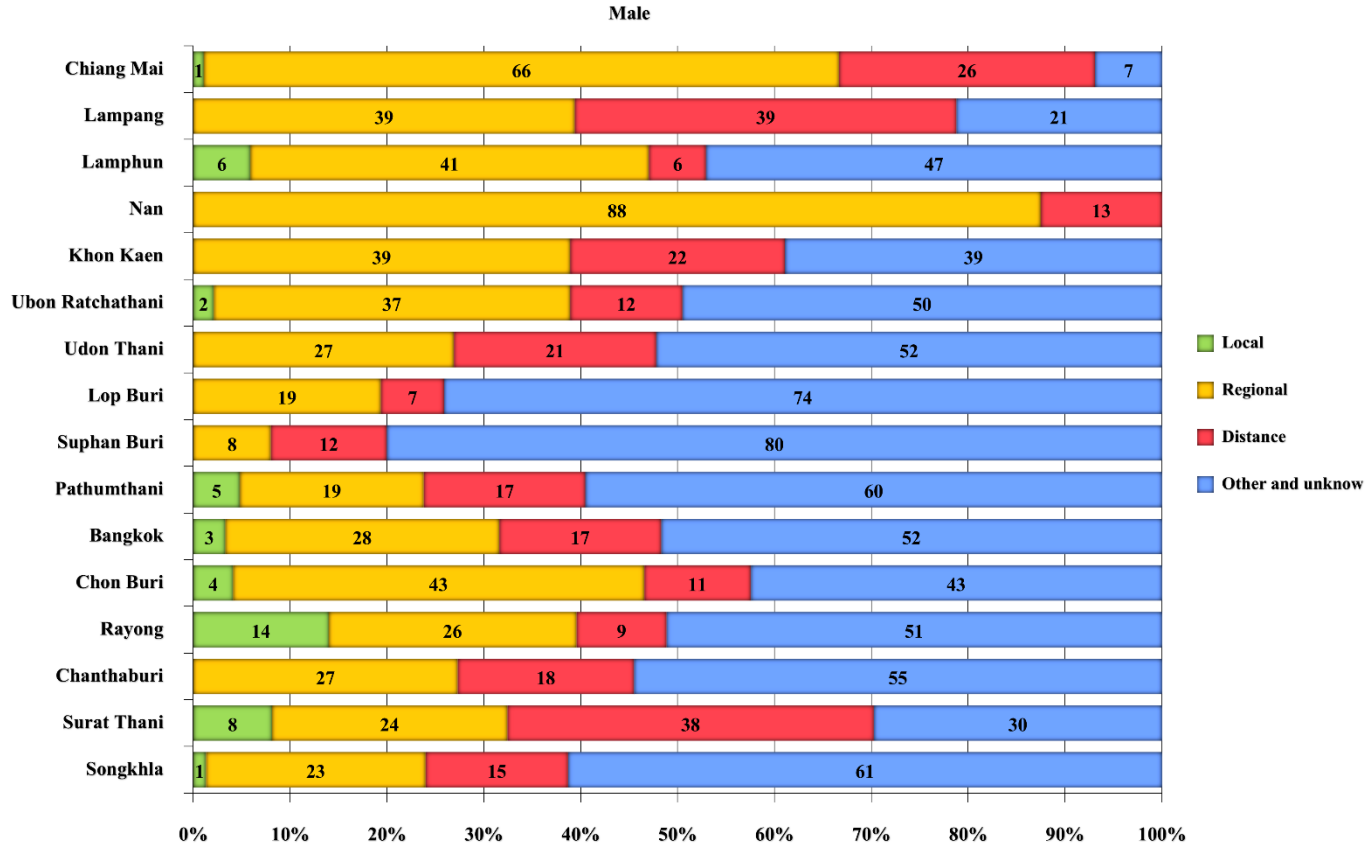
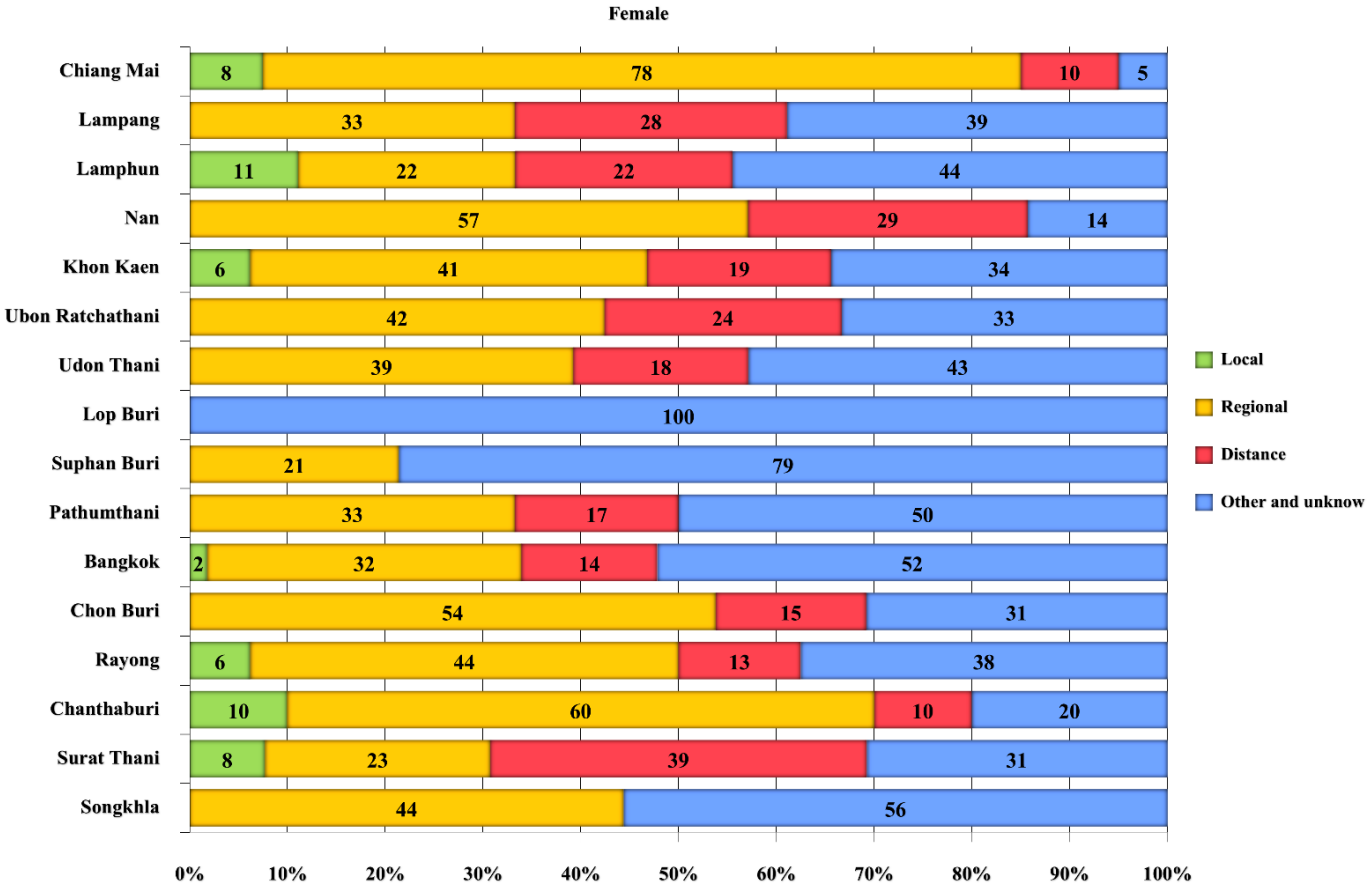


Figure 2.3.3 Stage distribution of nasopharynx cancer (2019-2021)





2.4 Hypopharynx

Figure 2.4.1 Hypopharynx cancer in different regions, mean annual ASR per 100,000 (2019-2021)

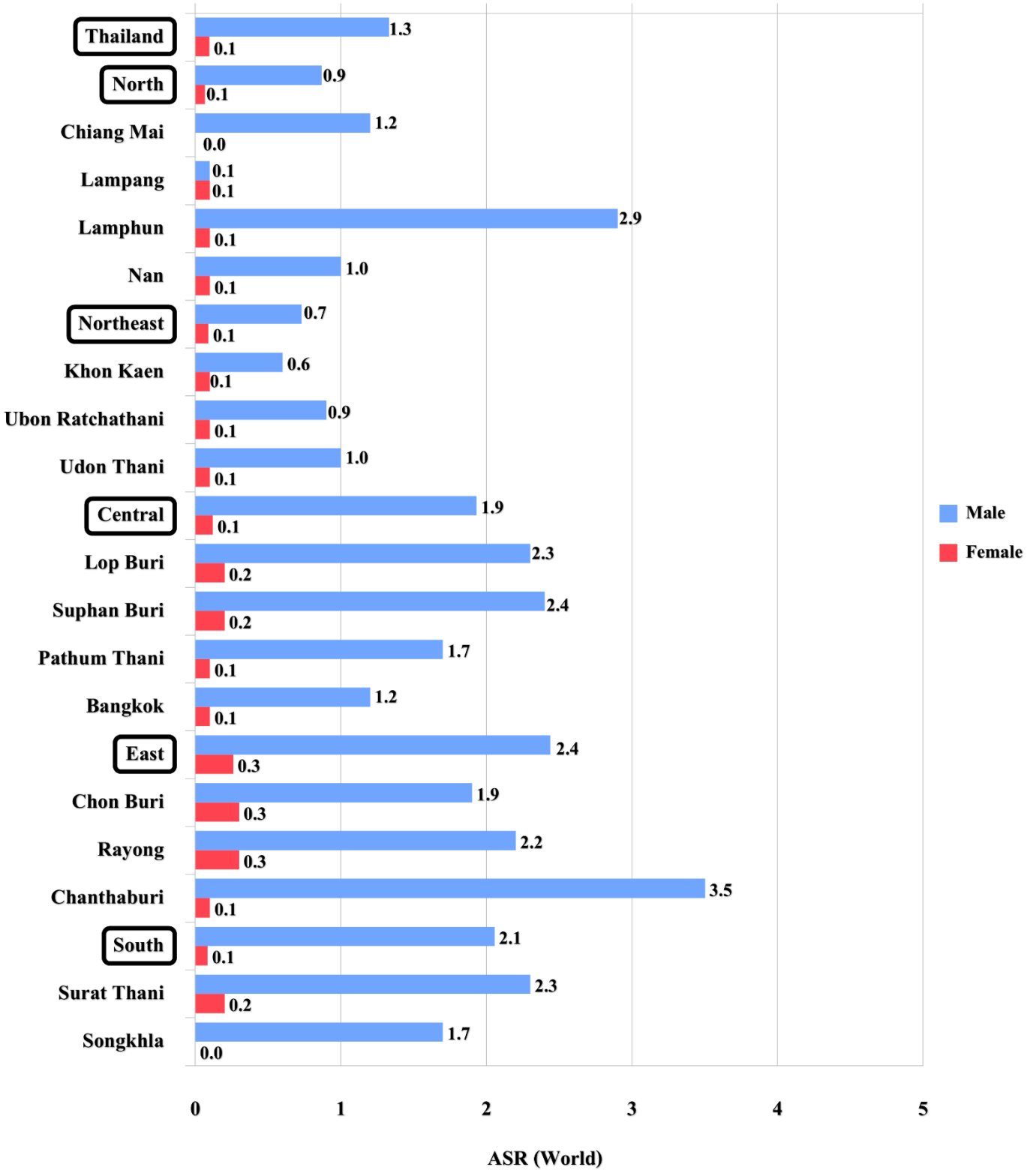
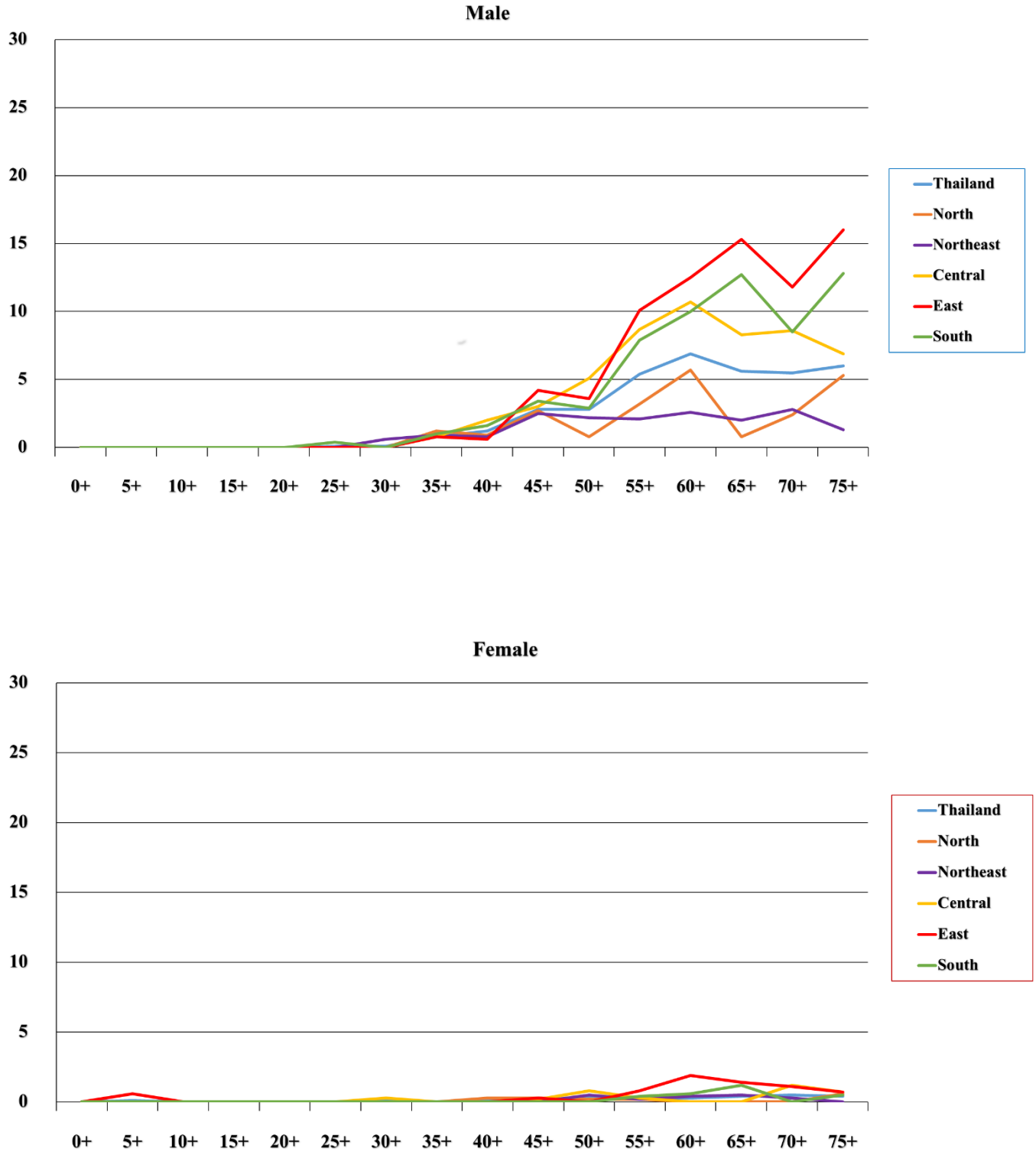


Figure 2.4.2 Age - specific incidence rates of hypopharynx cancer, mean annual rate per 100,000 (2019-2021)



2.5 Esophagus

Figure 2.5.1 Esophagus cancer in different regions, mean annual ASR per 100,000 (2019-2021)

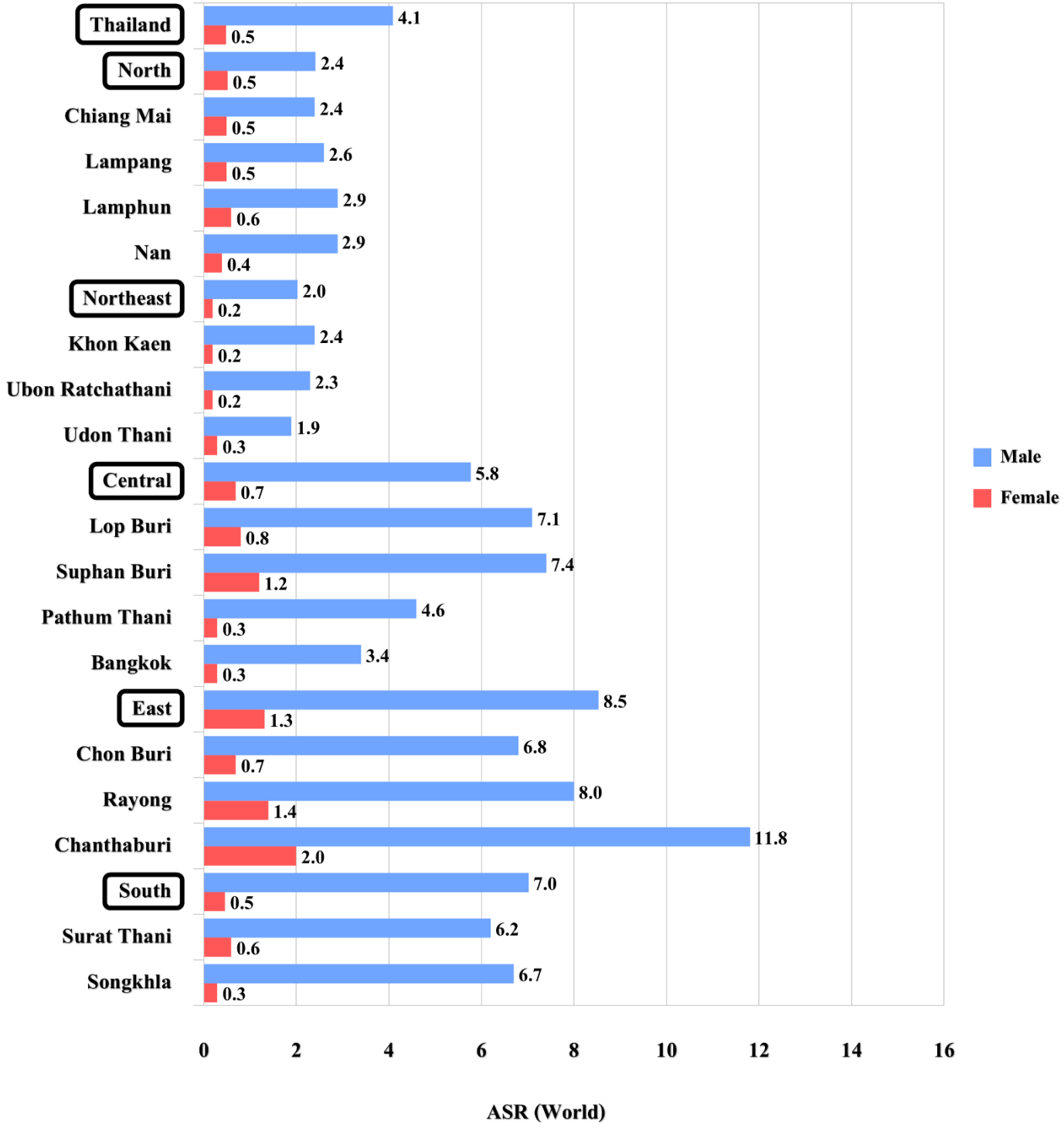


Figure 2.5.2 Age - specific incidence rates of esophagus cancer, mean annual rate per 100,000 (2019-2021)

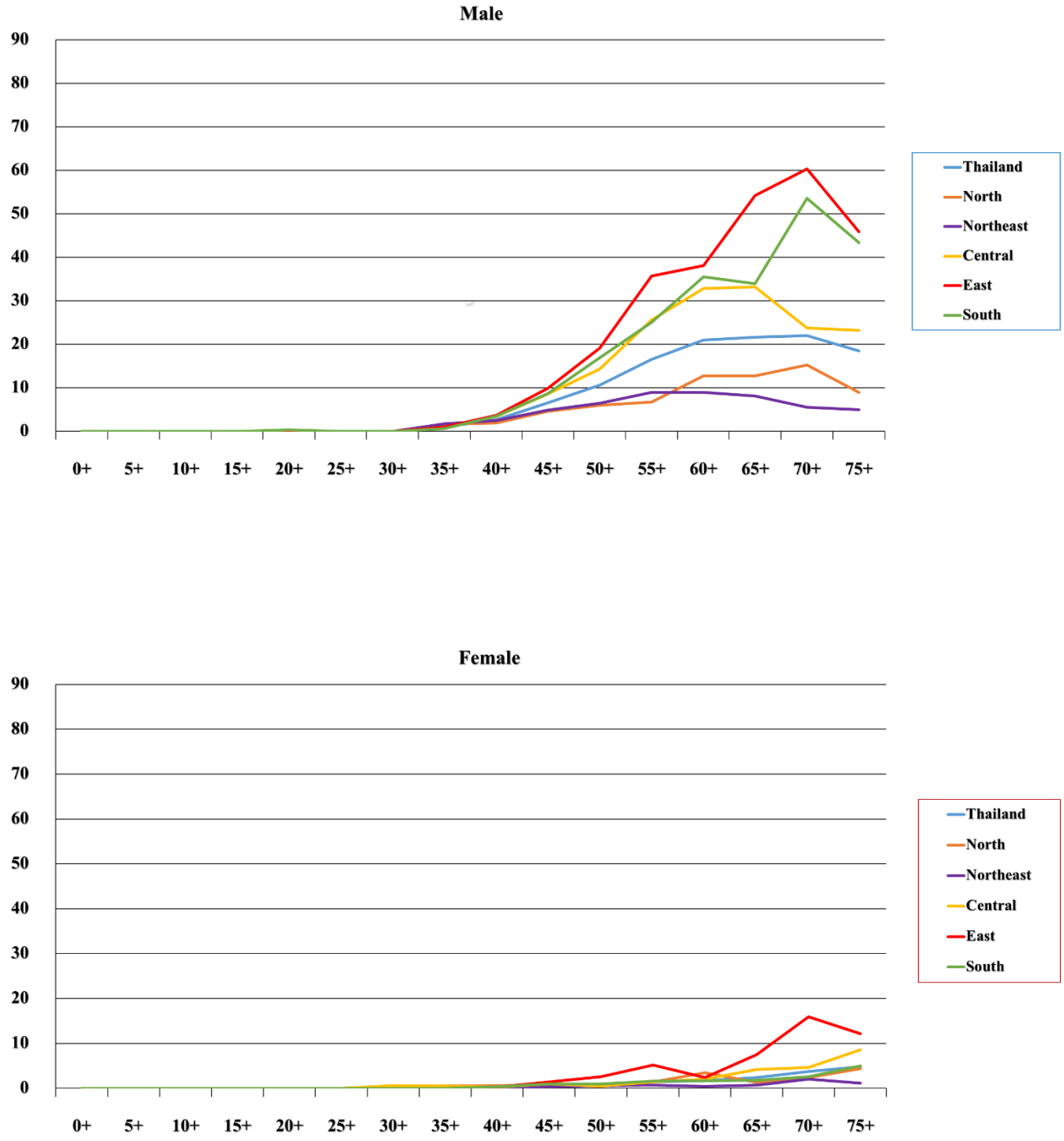
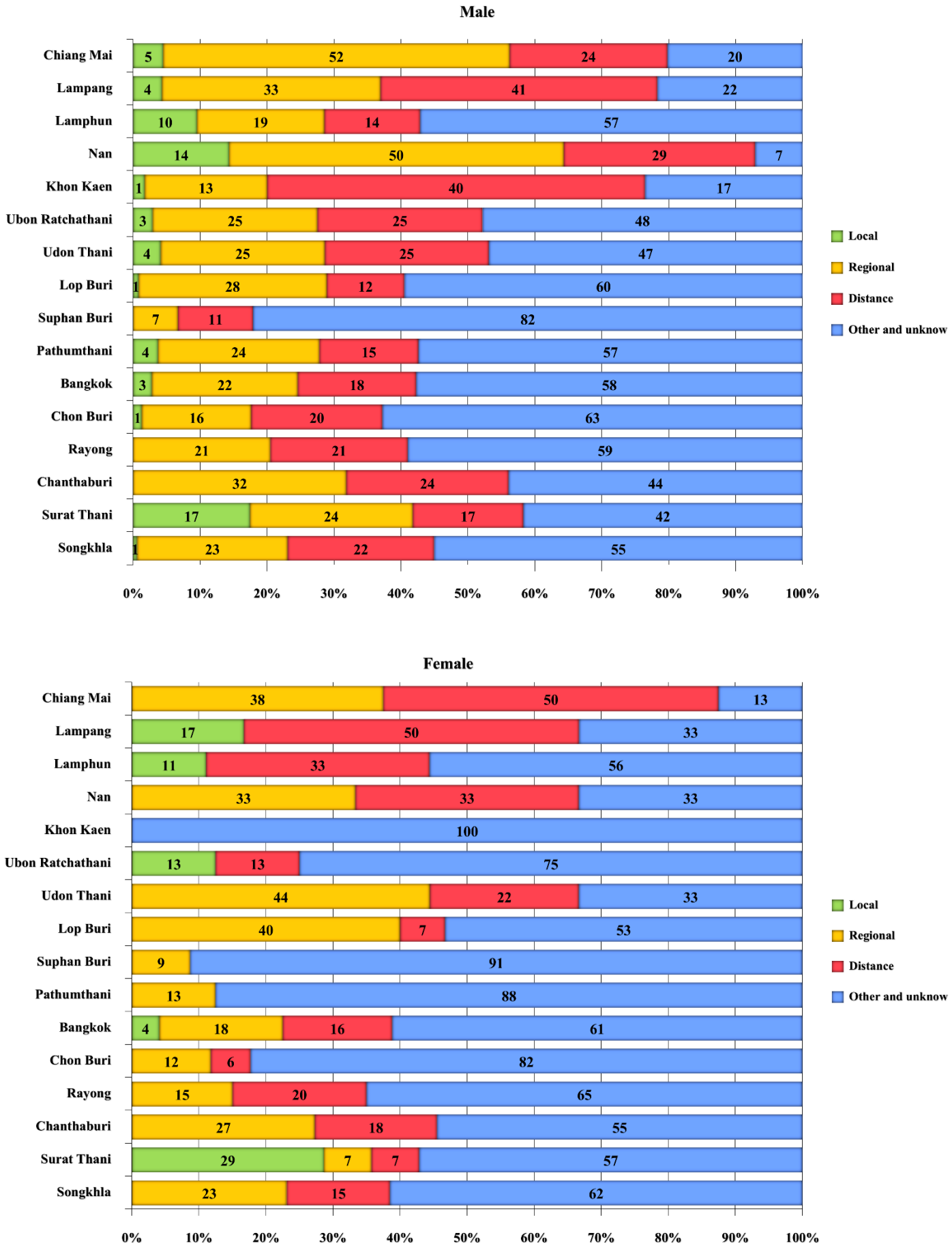


Figure 2.5.3 Stage distribution of esophagus cancer (2019-2021)



2.6 Stomach

Figure 2.6.1 Stomach cancer in different regions, mean annual ASR per 100,000 (2019-2021)

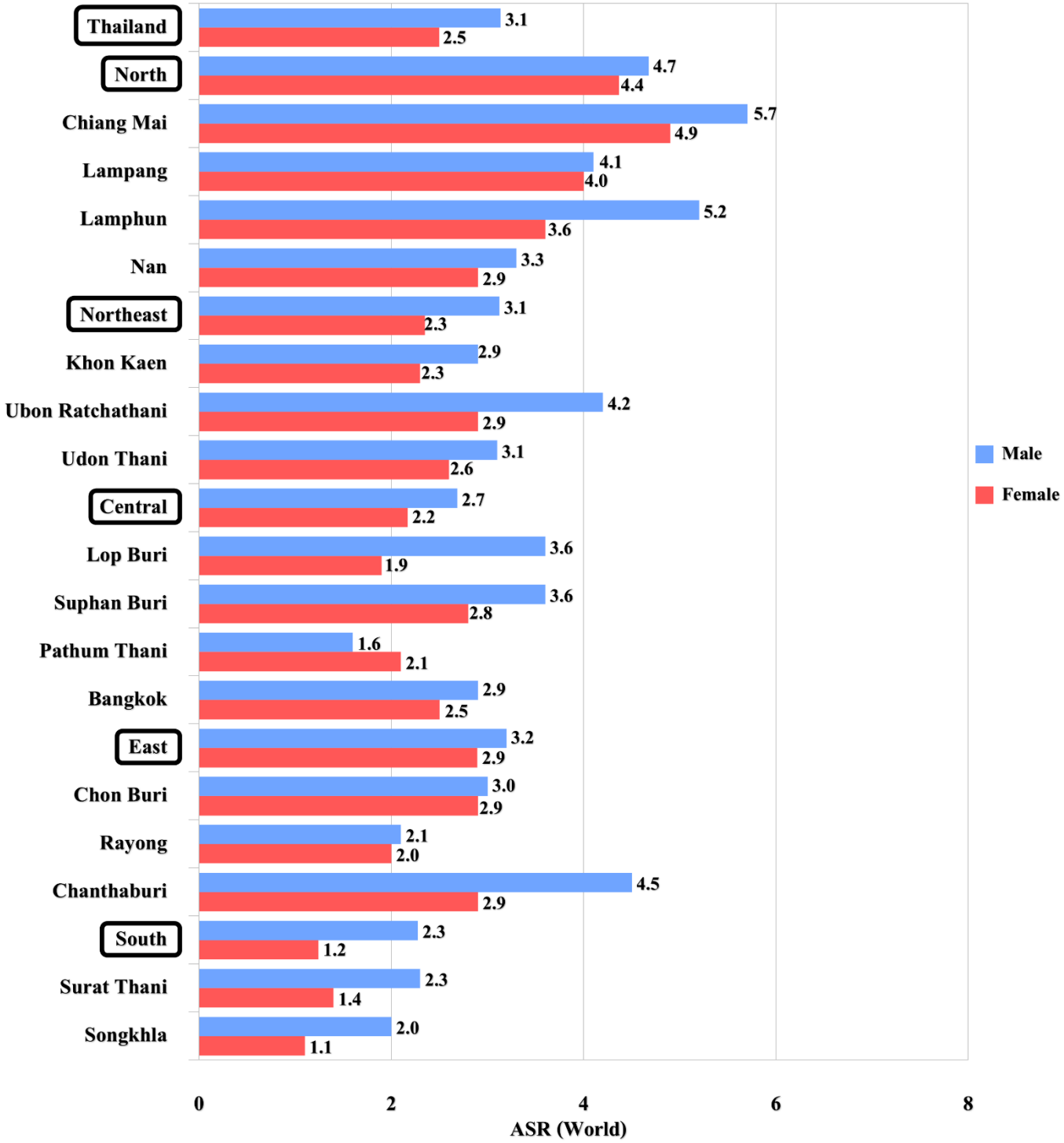
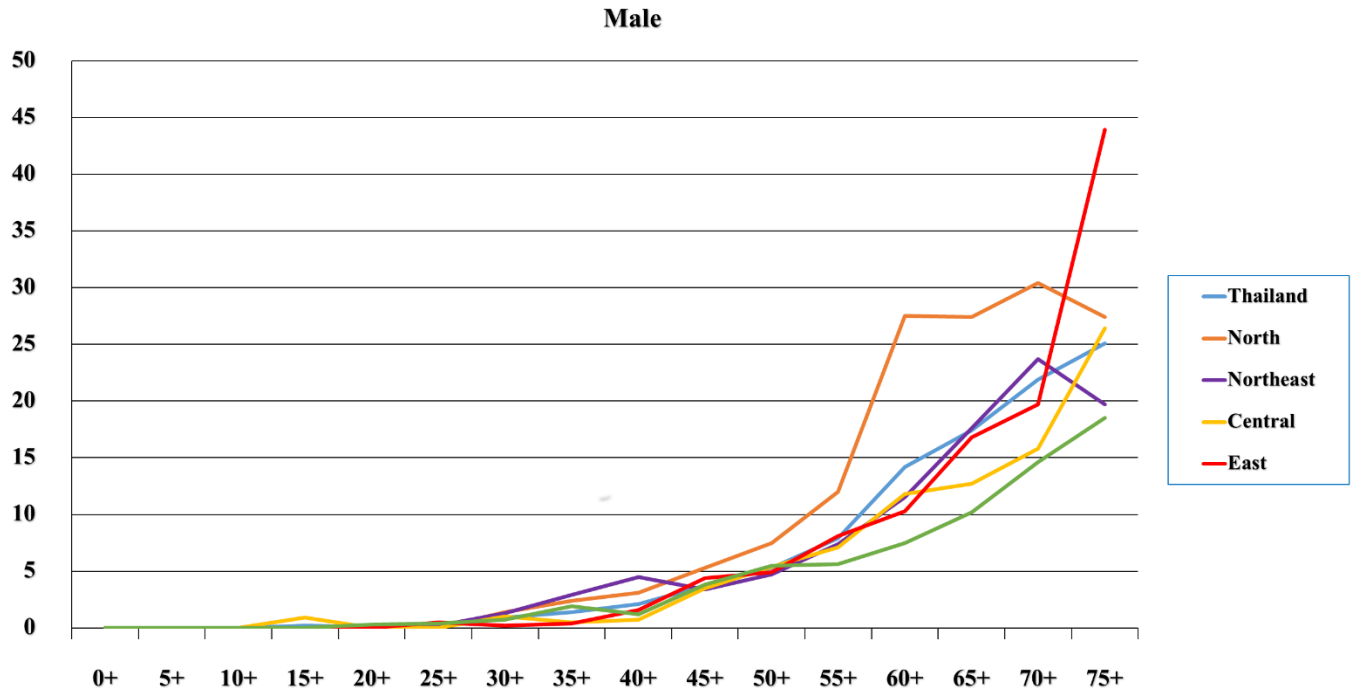


Figure 2.6.2 Age - specific incidence rates of stomach cancer, mean annual rate per 100,000 (2019-2021)



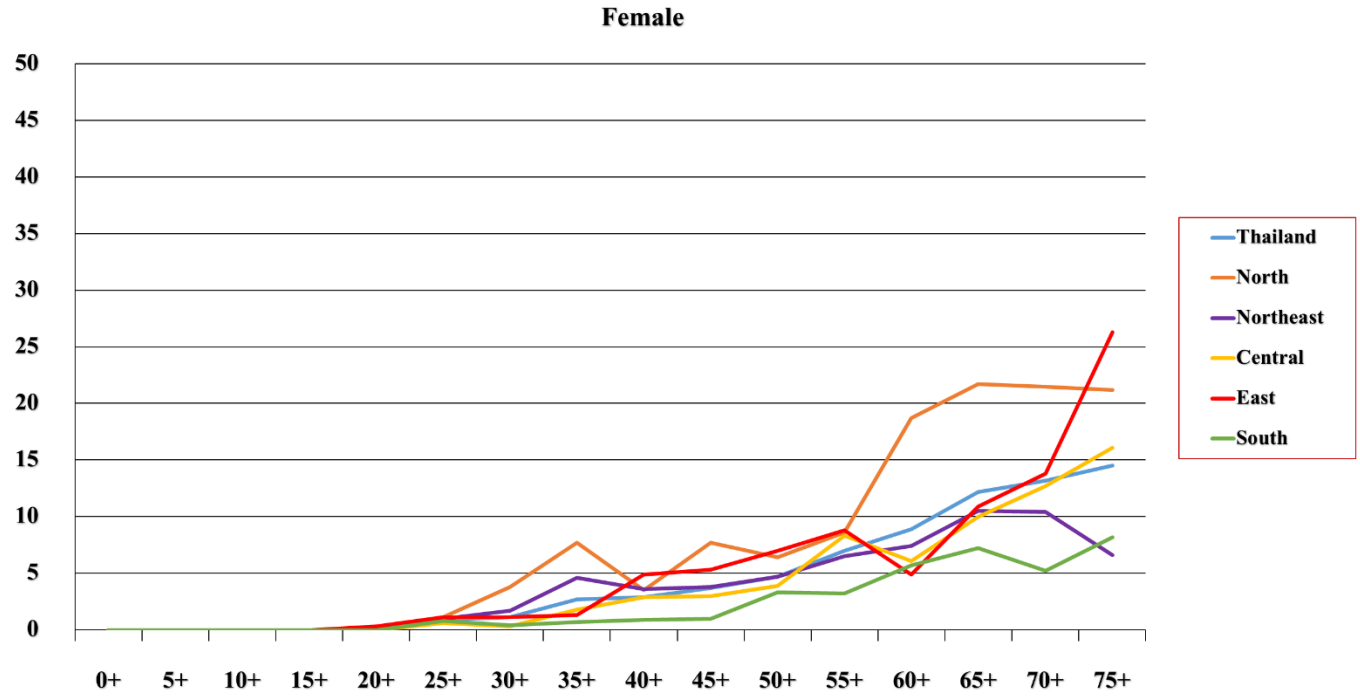
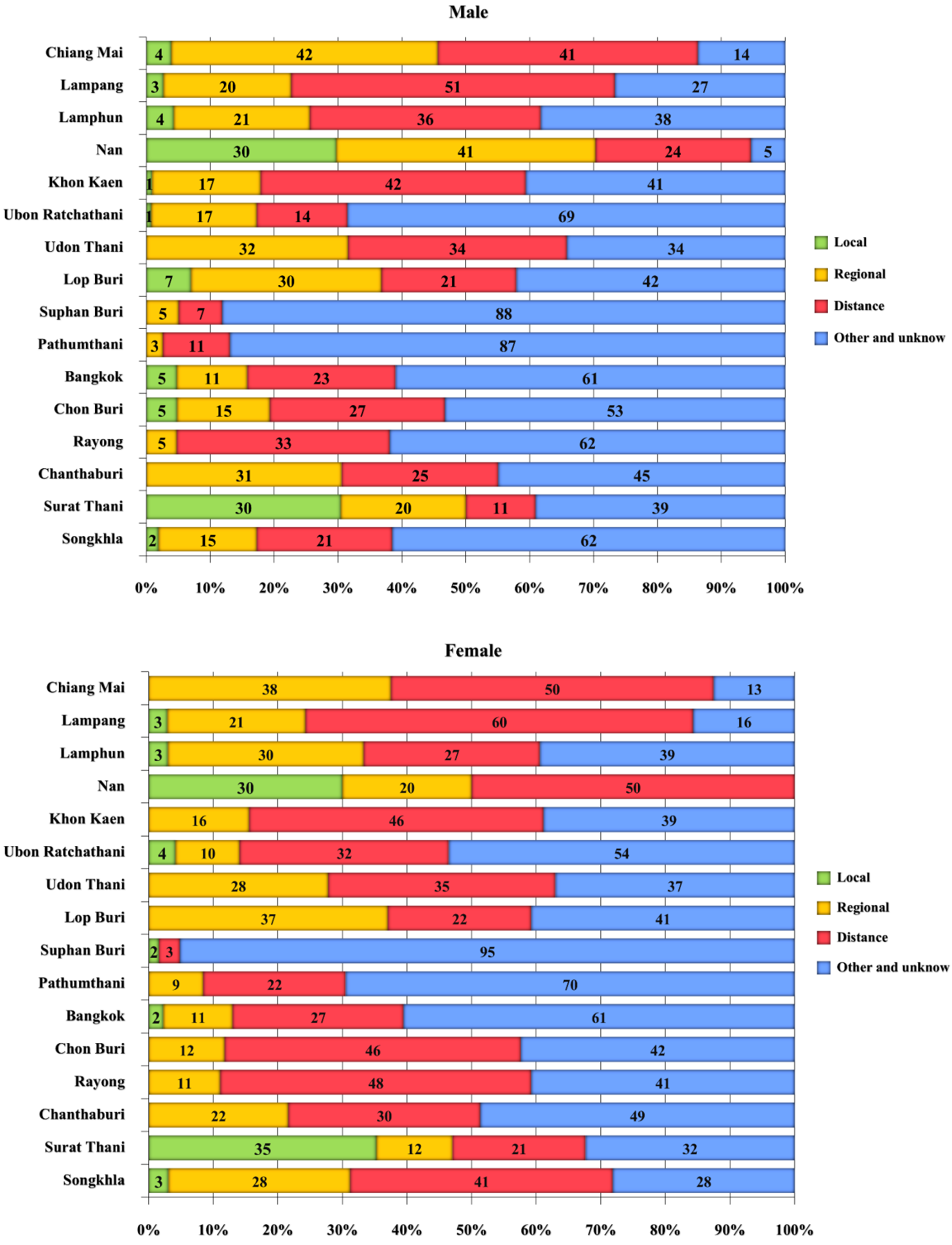


Figure 2.6.3 Stage distribution of stomach cancer (2019-2021)



2.7 Colon and Rectum

Figure 2.7.1 Colon and rectum cancer in different regions, mean annual ASR per 100,000 (2019-2021)

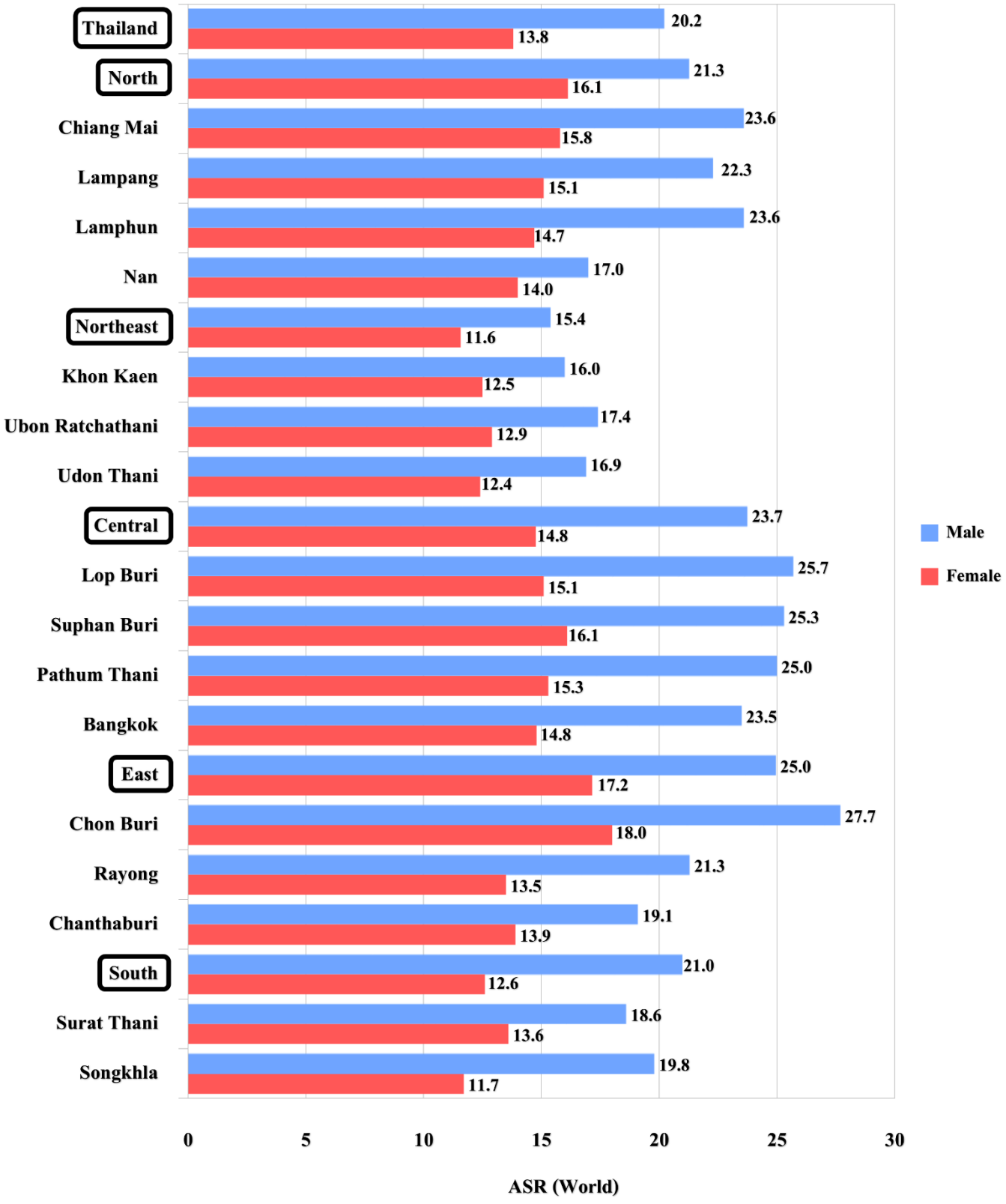


Figure 2.7.2 Age - specific incidence rates of colon and rectum cancer, mean annual rate per 100,000 (2019-2021)

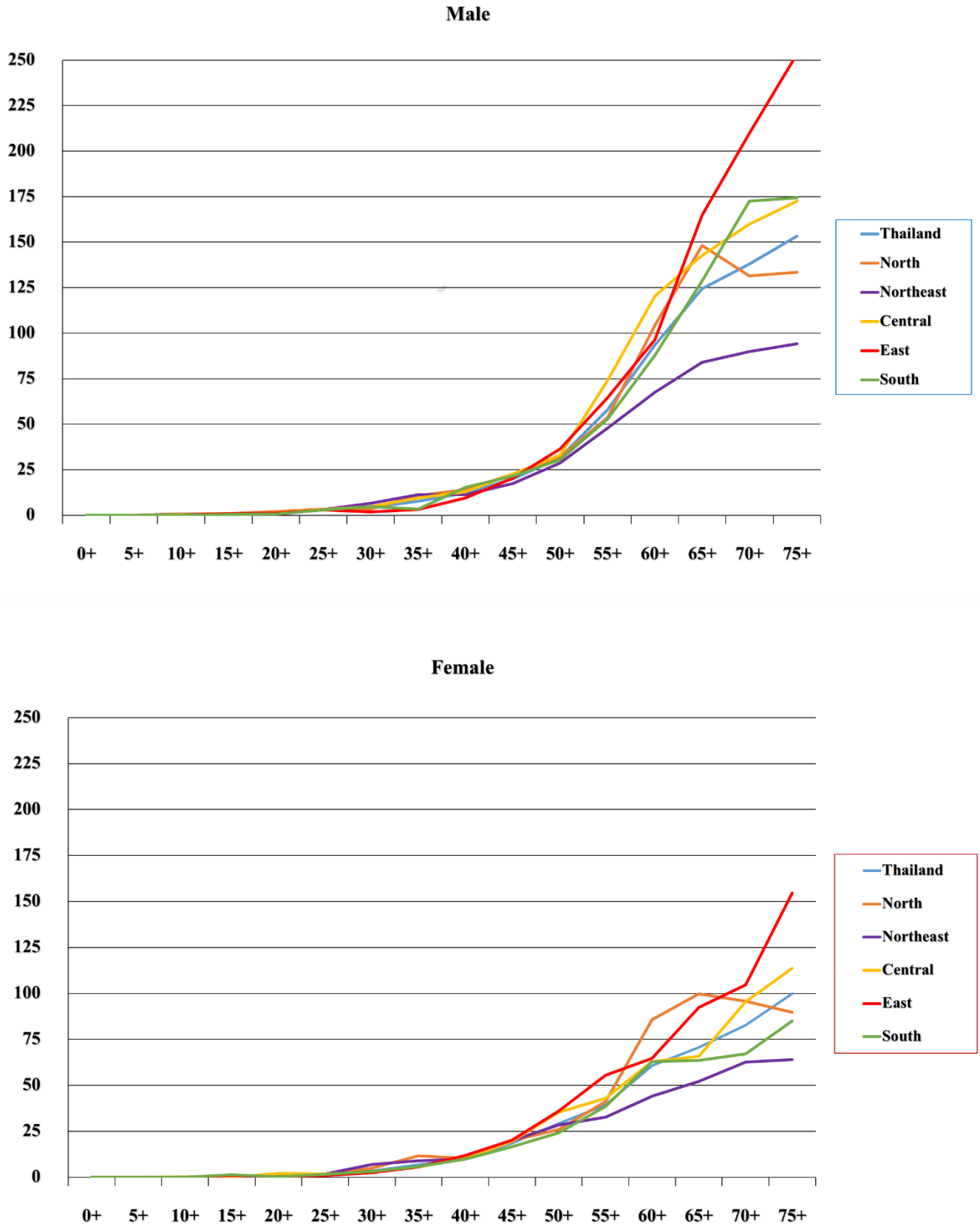
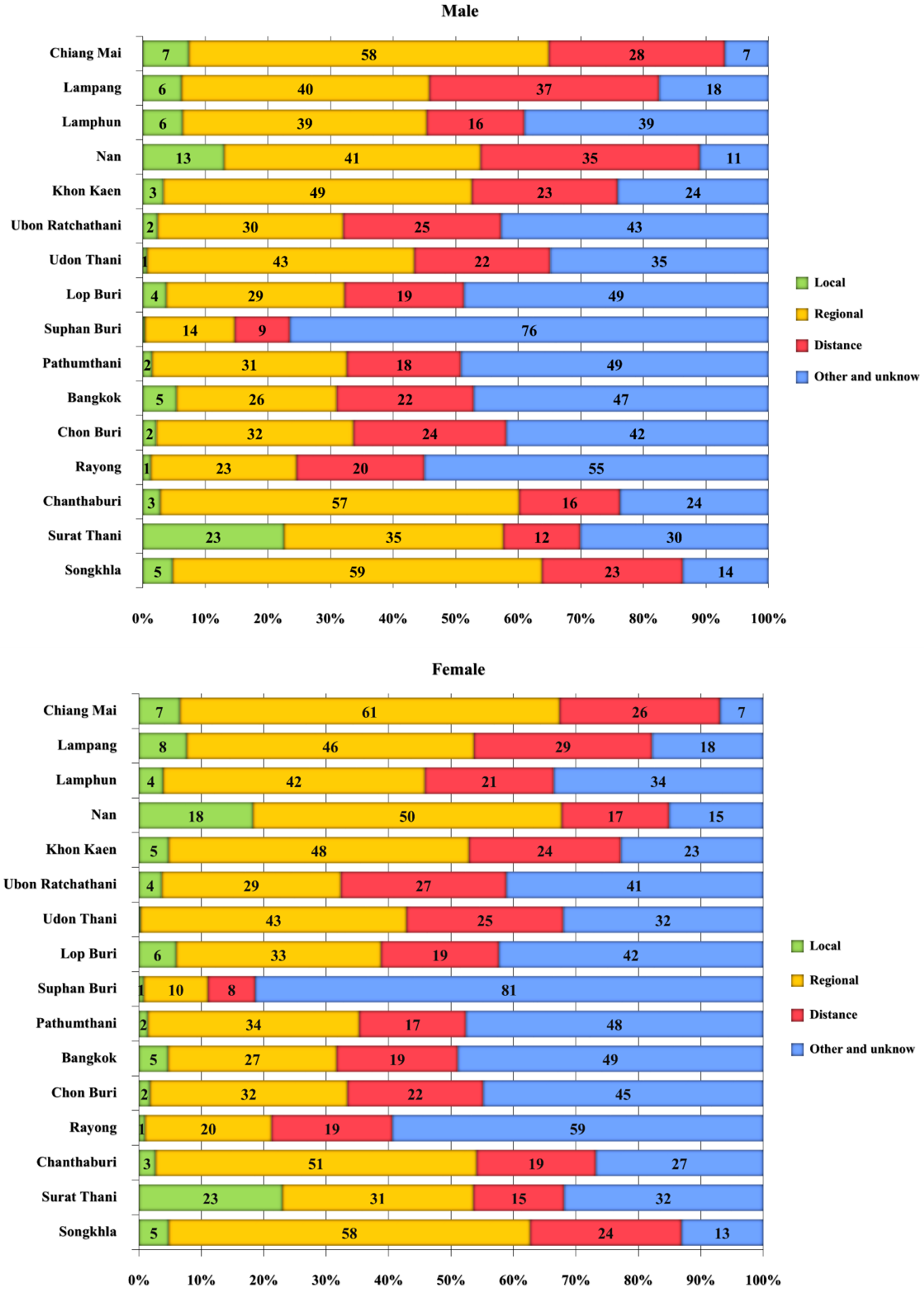


Figure 2.7.3 Stage distribution of colon and rectum cancer (2019-2021)



2.8 Liver and bile duct

Figure 2.8.1 Liver and bile duct cancer in different regions, mean annual ASR per 100,000 (2019-2021)

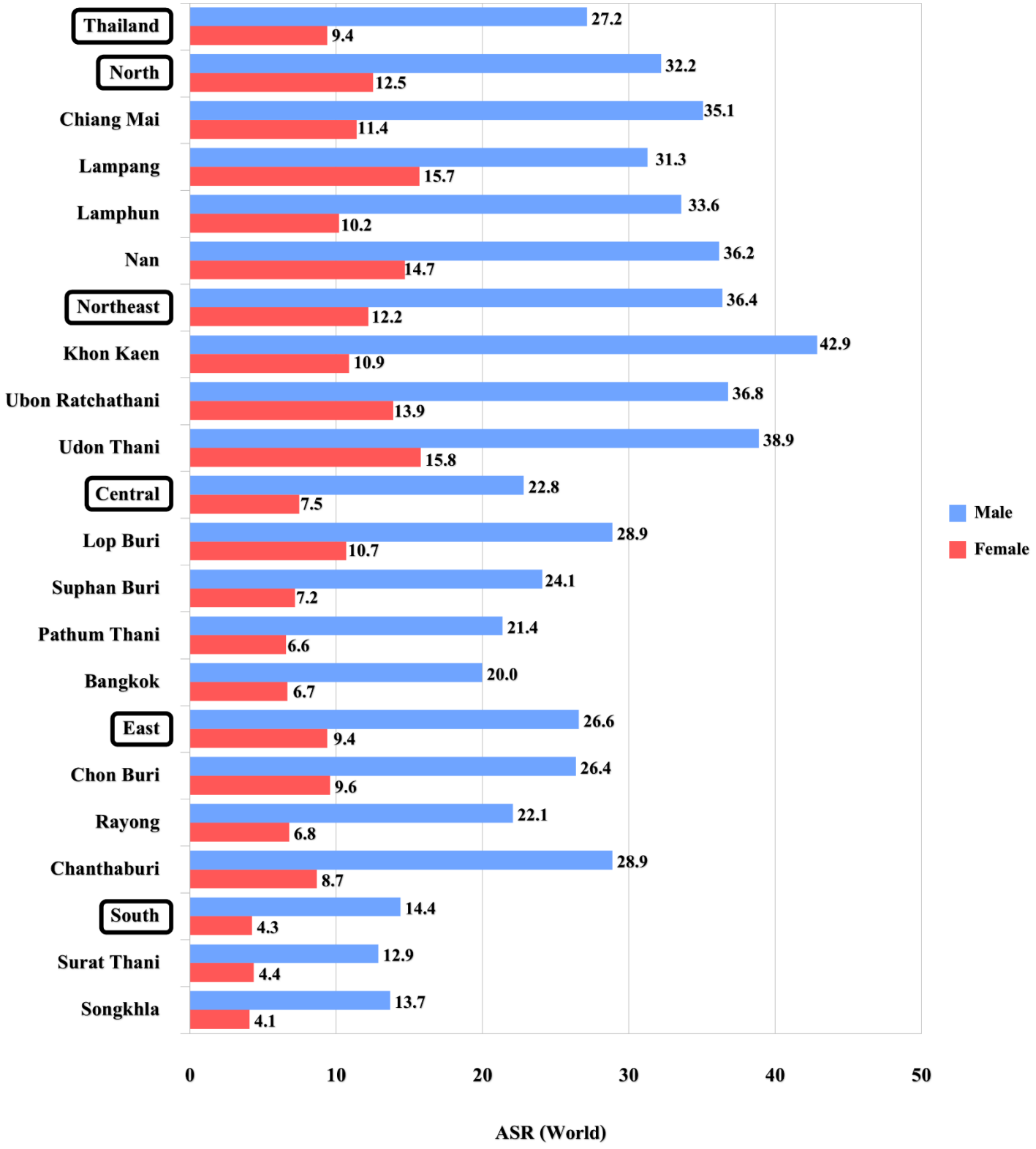


Figure 2.8.2 Age - specific incidence rates of liver and bile duct cancer, mean annual rate per 100,000 (2019-2021)

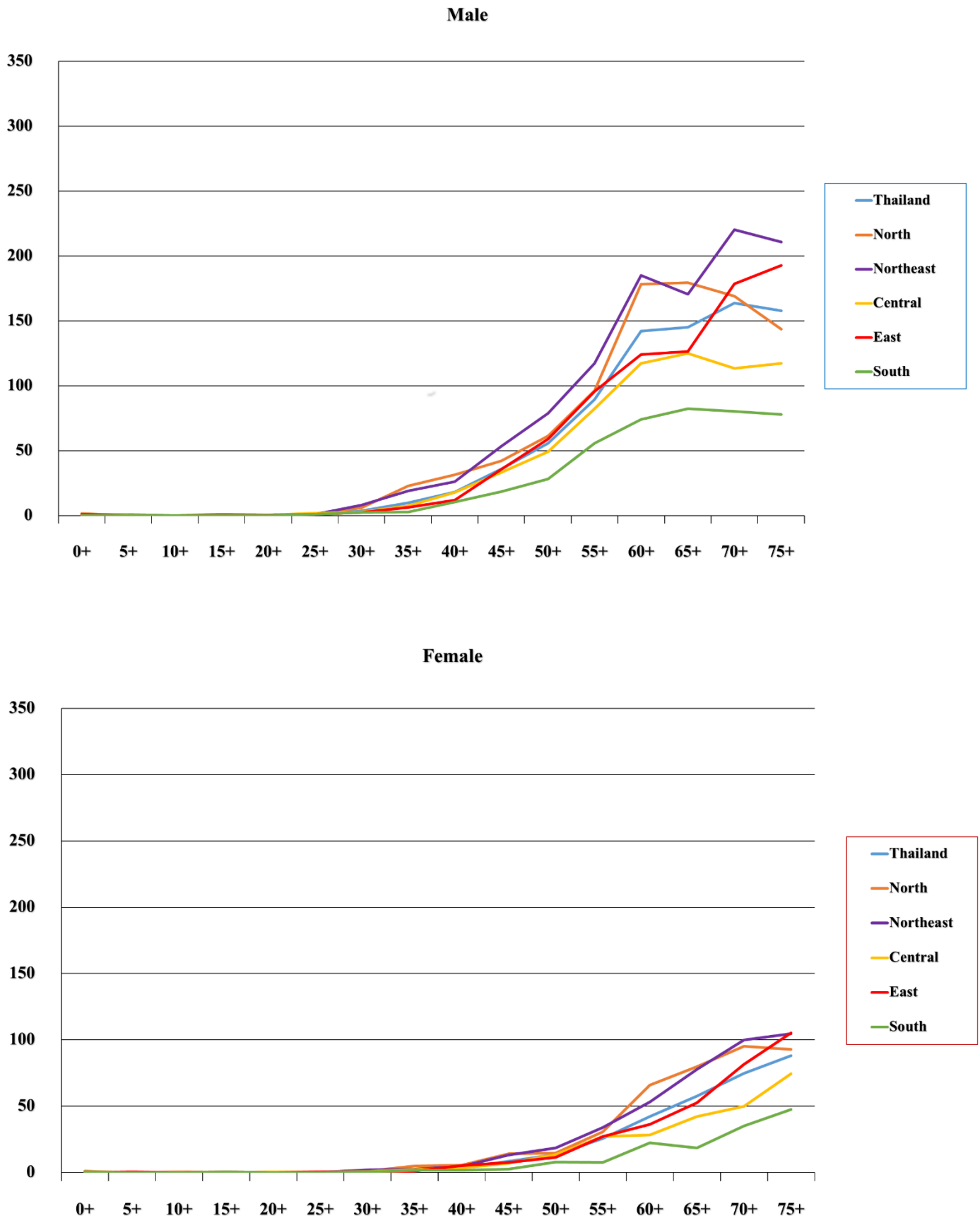
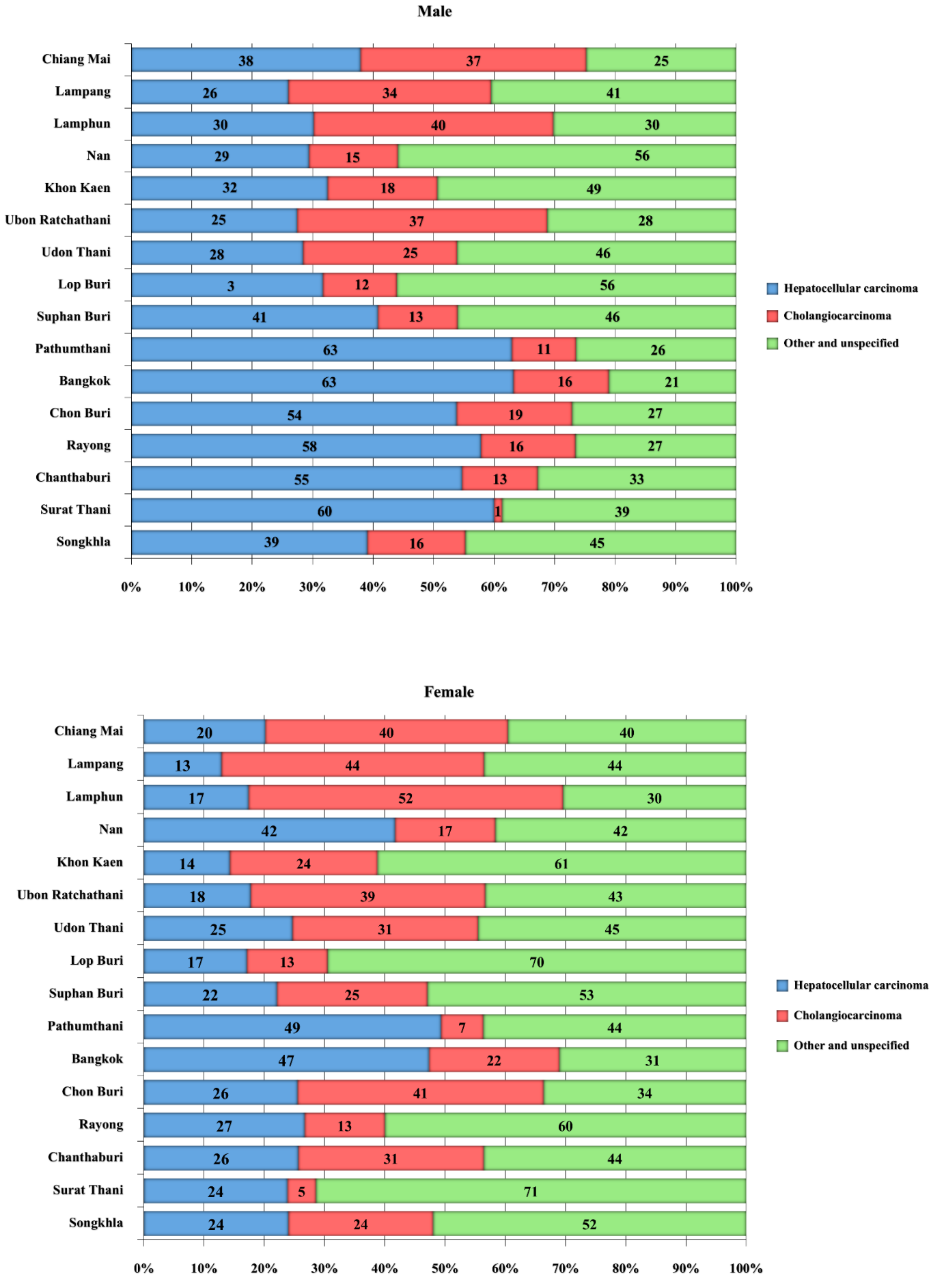


Figure 2.8.3 Histological types of liver and bile duct cancer (2019-2021)



2.9 Larynx

Figure 2.9.1 Larynx cancer in different regions, mean annual ASR per 100,000 (2019-2021)

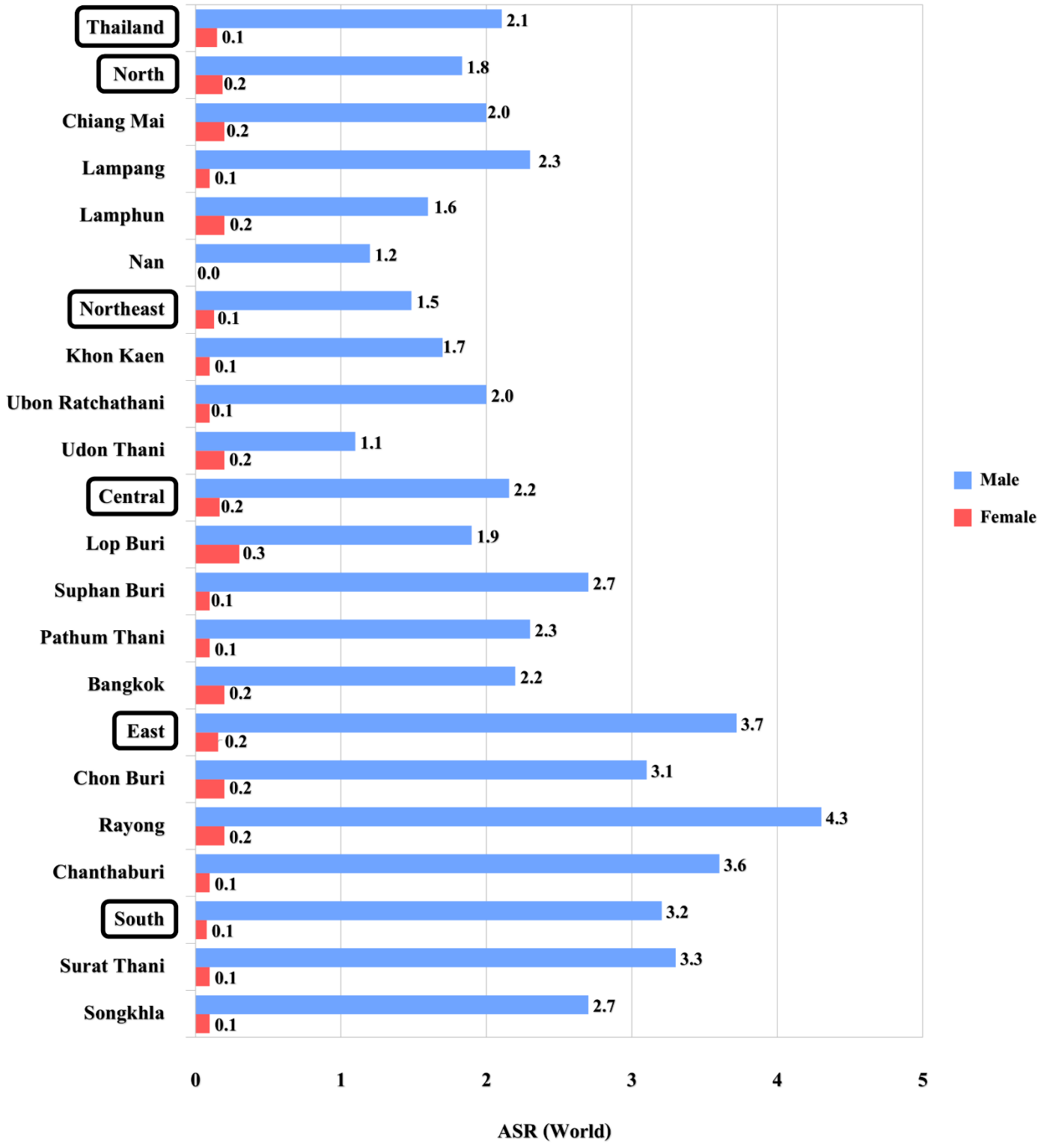
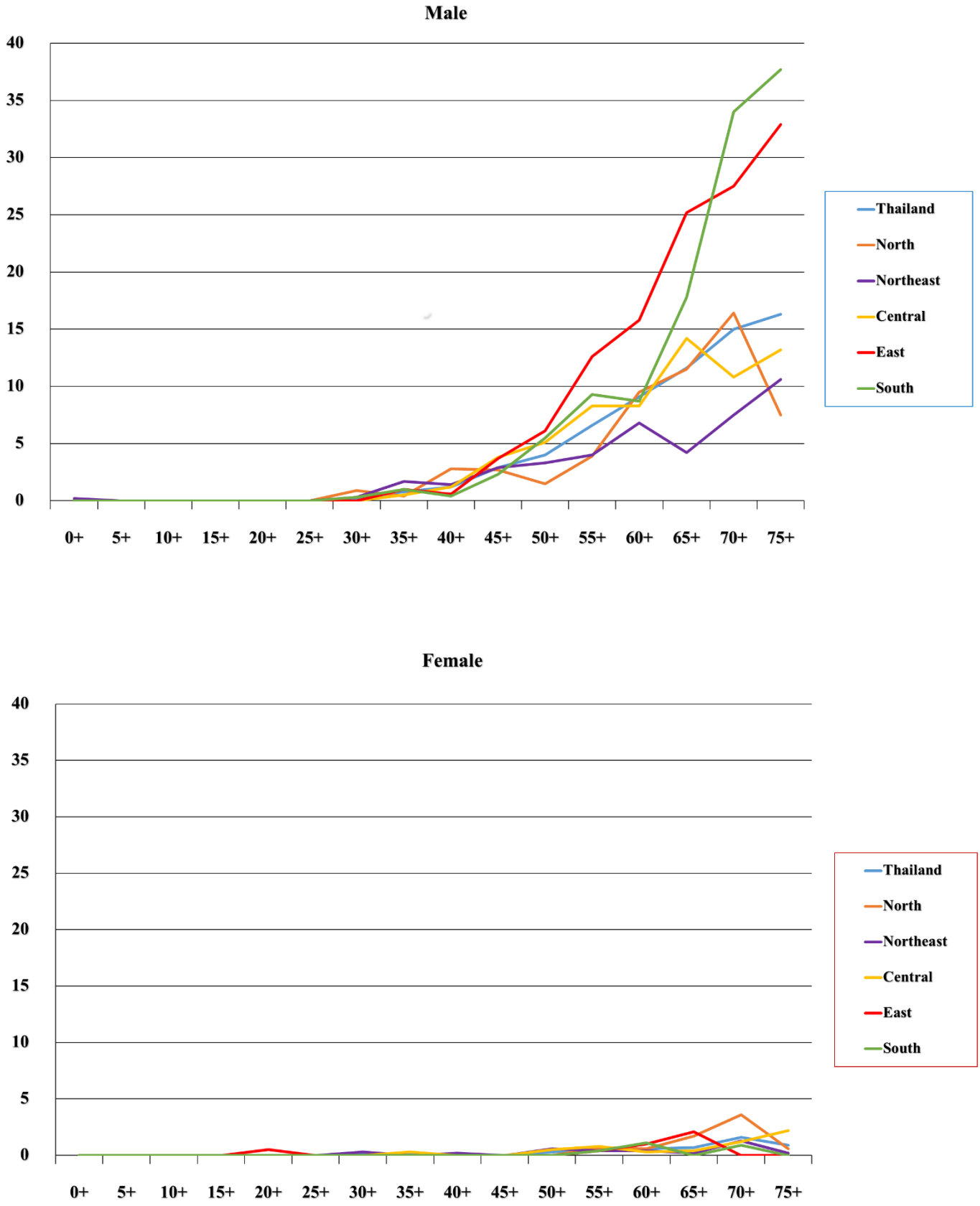


Figure 2.9.2 Age - specific incidence rates of larynx cancer, mean annual rate per 100,000 (2019-2021)



2.10 Trachea, bronchus and lung

Figure 2.10.1 Trachea, bronchus and lung cancer in different regions, mean annual ASR per 100,000 (2019-2021)

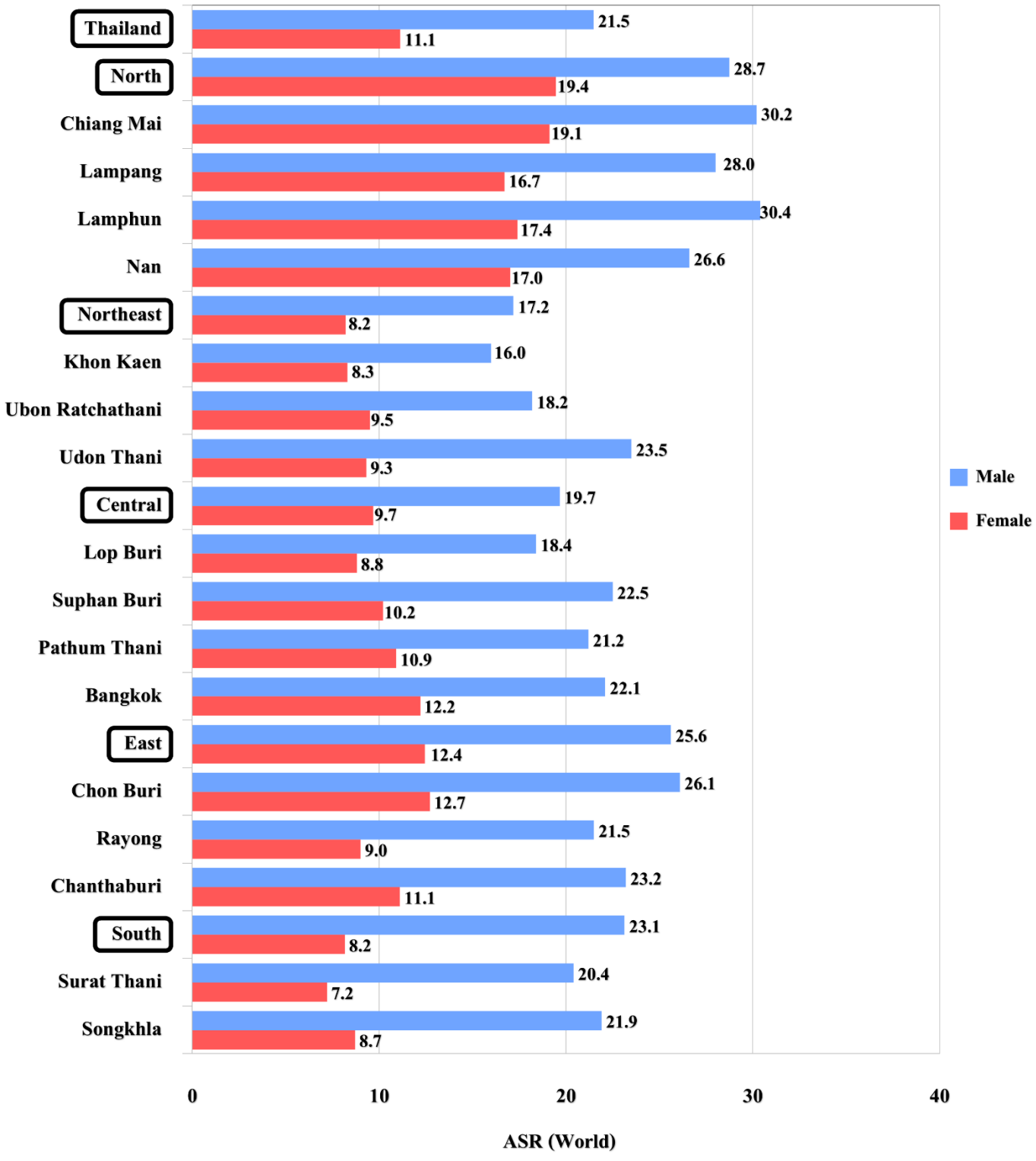


Figure 2.10.2 Age - specific incidence rates of trachea, bronchus and lung cancer, mean annual rate per 100,000 (2019-2021)

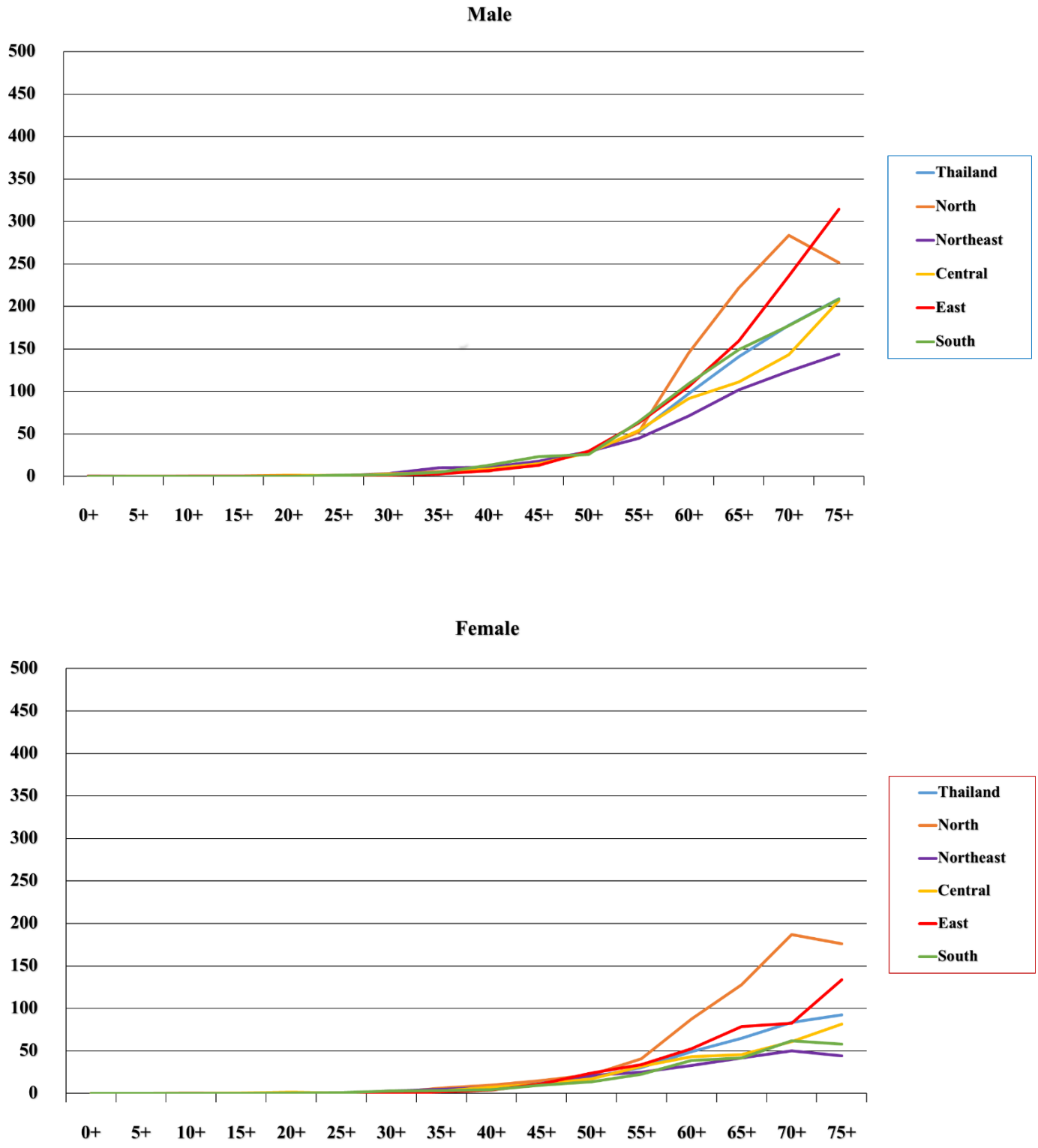


Figure 2.10.3 Histological types of trachea, bronchus and lung cancer (2019-2021)

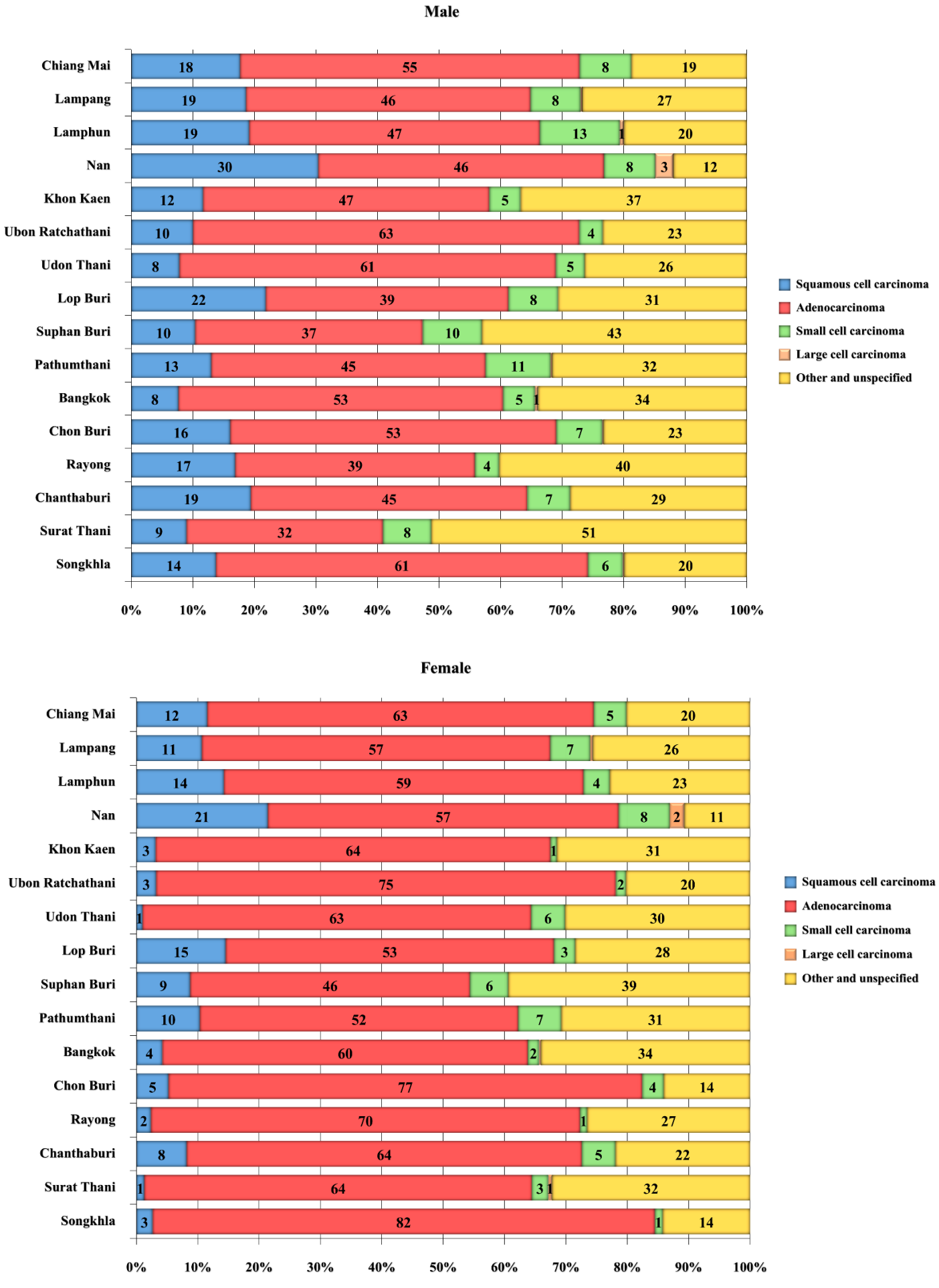
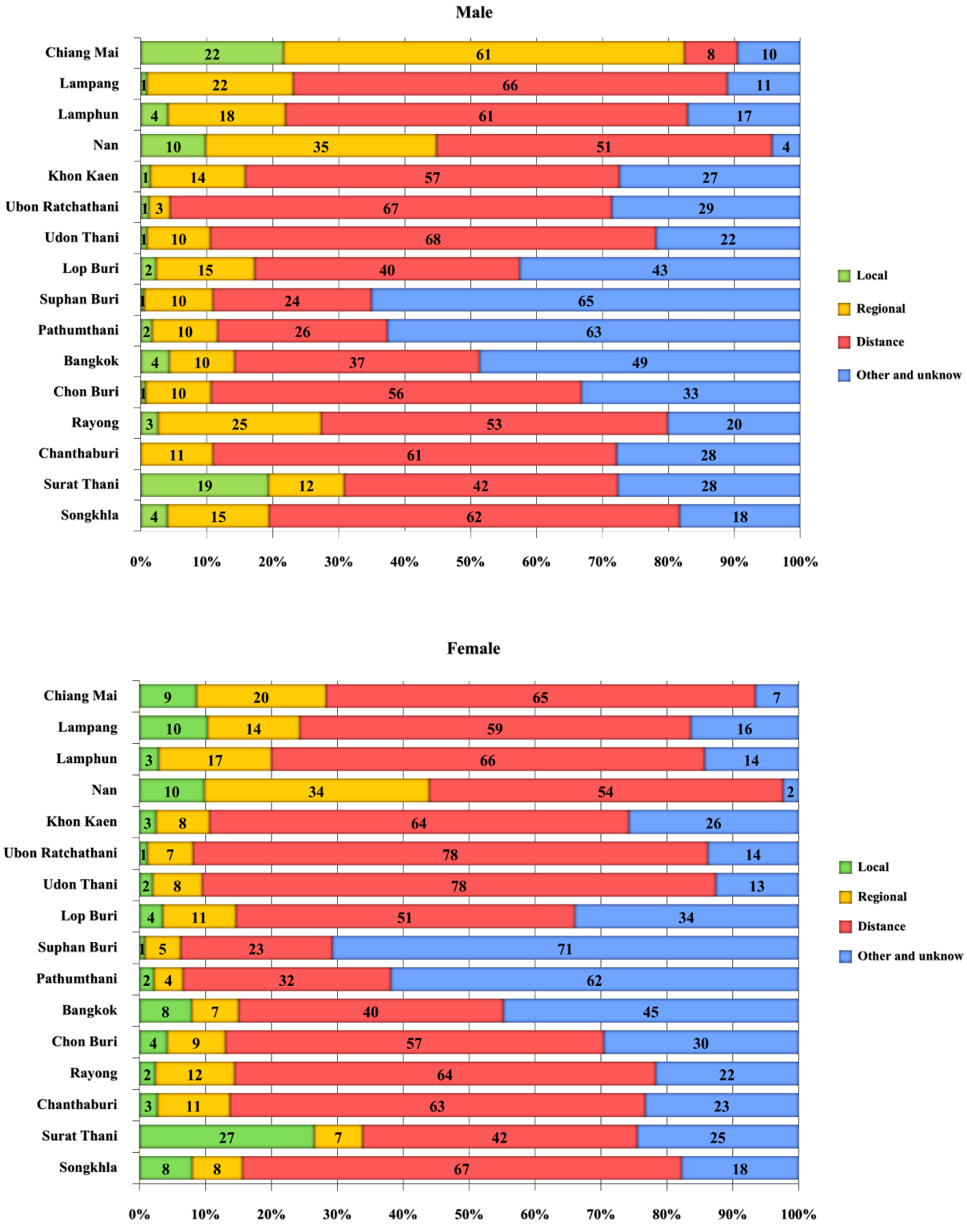


Figure 2.10.4 Stage distribution of trachea, bronchus and lung cancer (2019-2021)



2.11 Skin

Figure 2.11.1 Skin cancer in different regions, mean annual ASR per 100,000 (2019-2021)

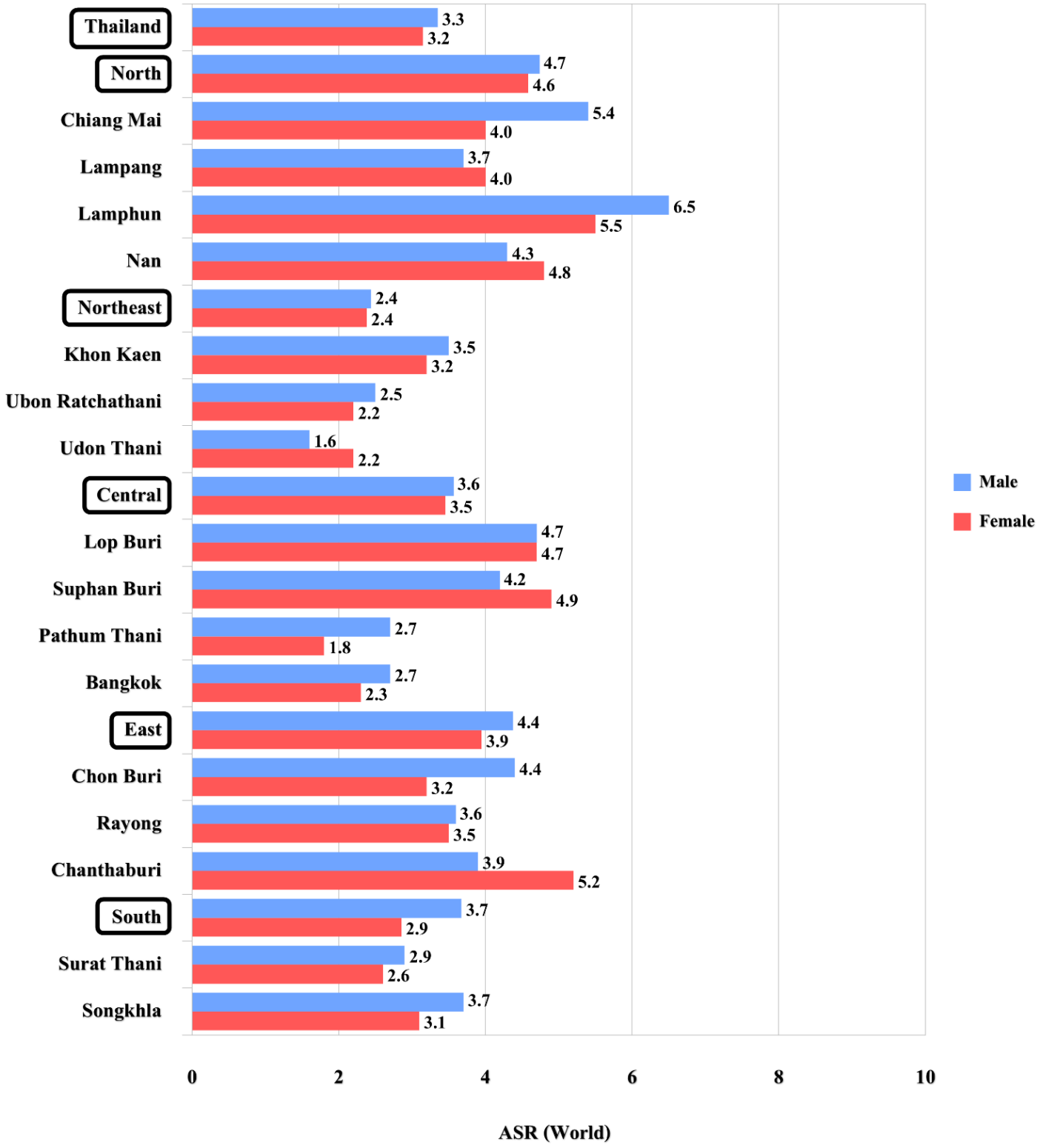


Figure 2.11.2 Age - specific incidence rates of skin cancer, mean annual rate per 100,000 (2019-2021)

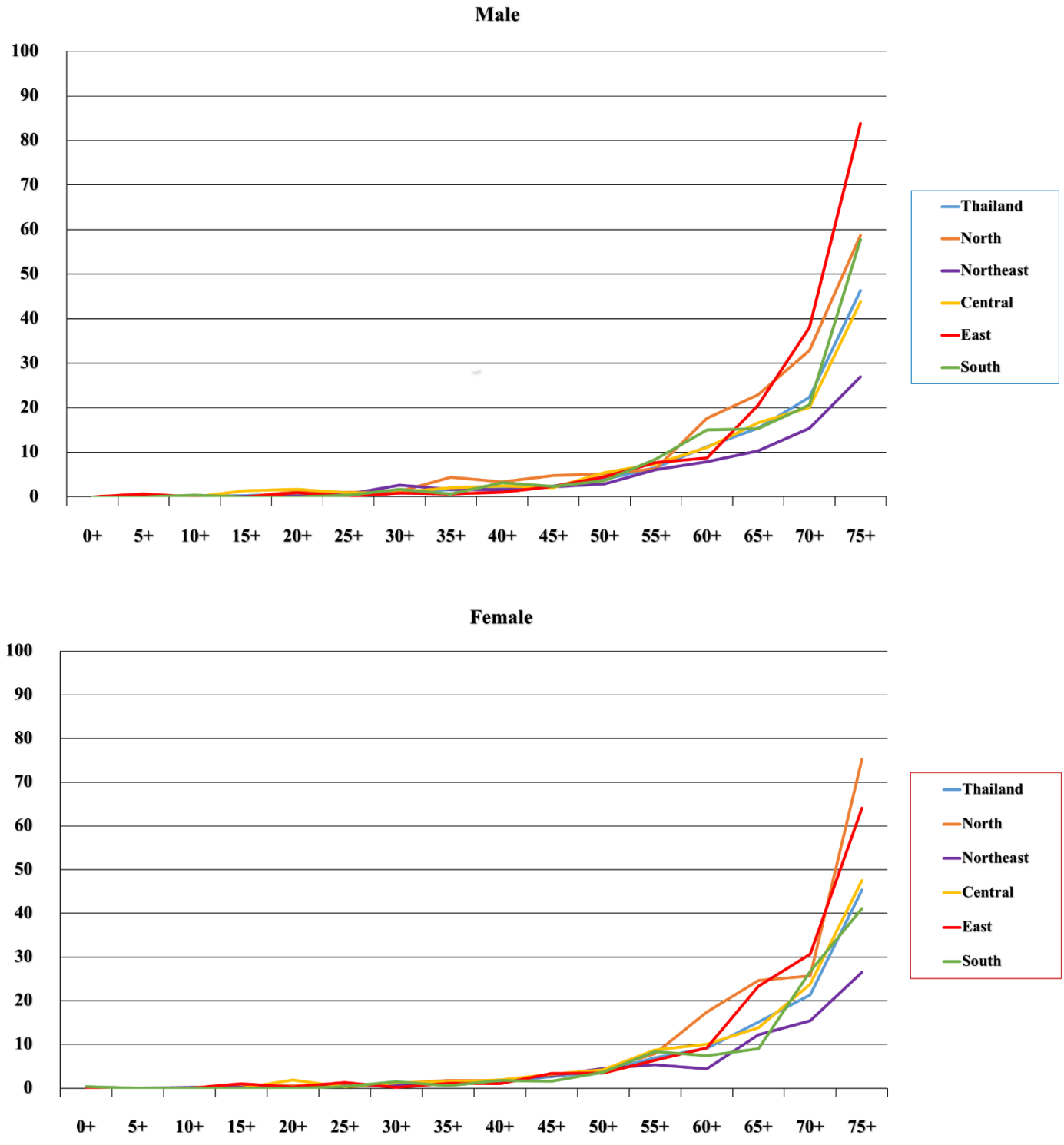
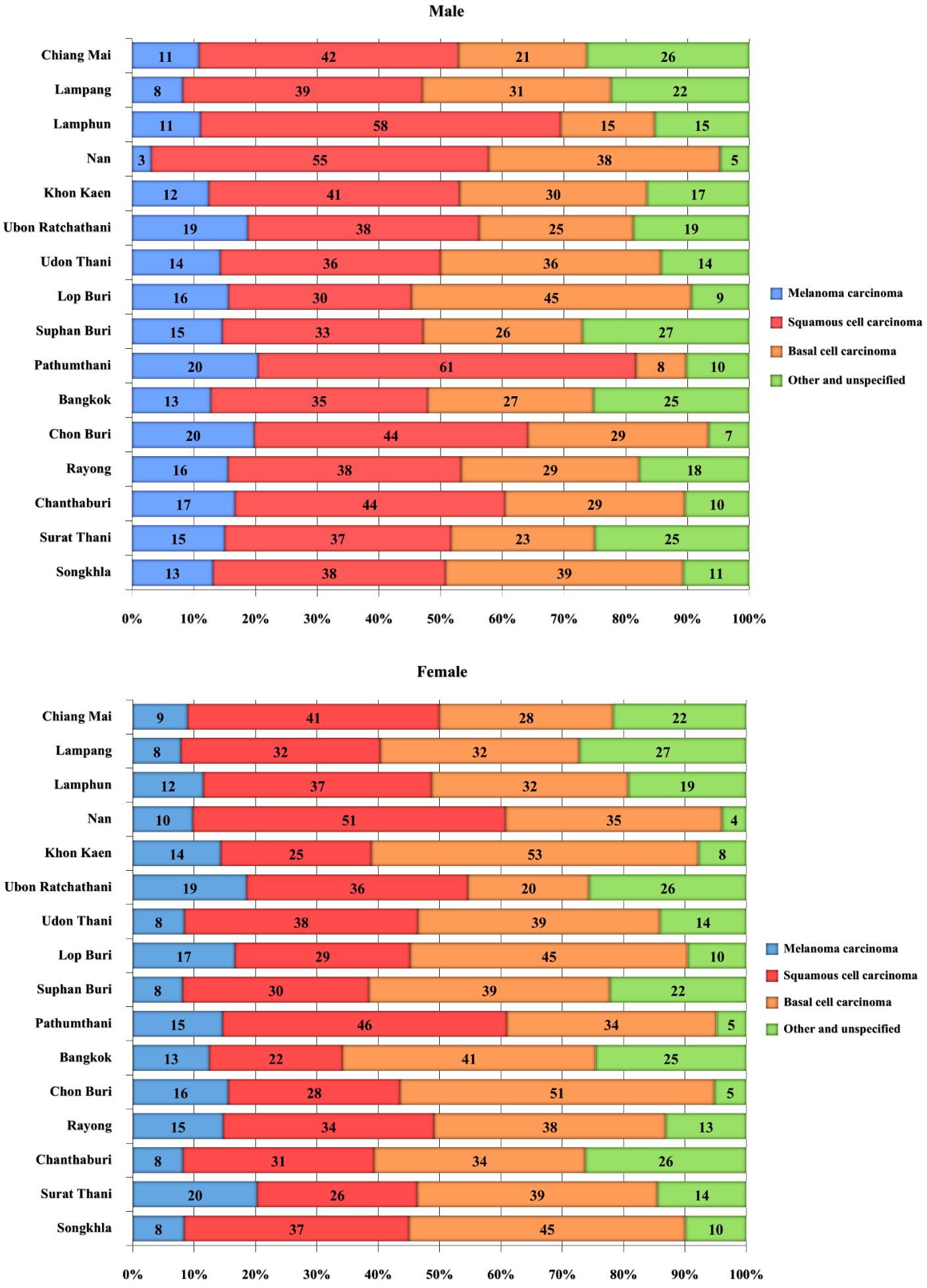


Figure 2.11.3 Histological types of skin cancer (2019-2021)



2.12 Breast

Figure 2.12.1 Breast cancer in different regions, mean annual ASR per 100,000 (2019-2021)

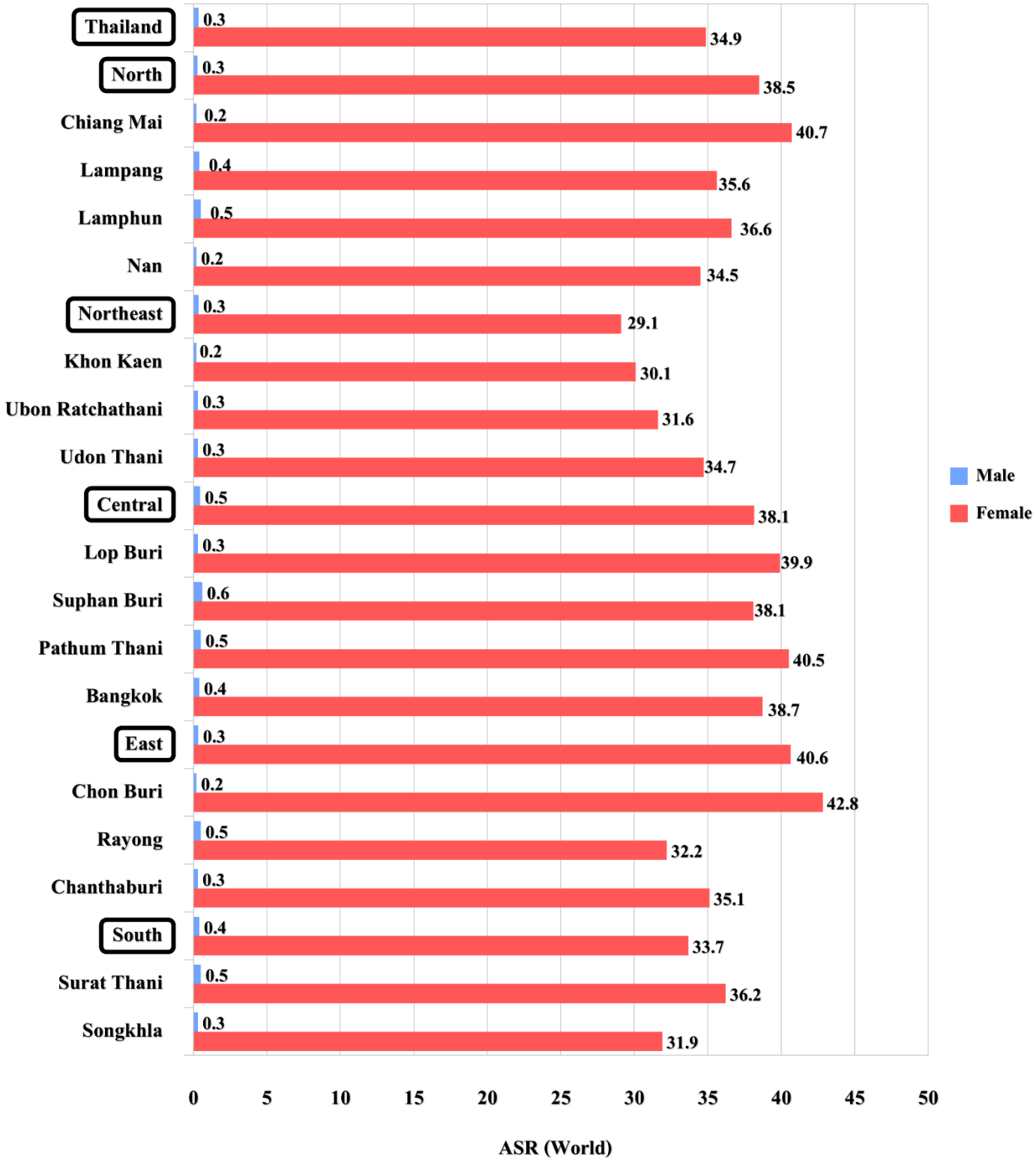


Figure 2.12.2 Age - specific incidence rates of breast cancer, mean annual rate per 100,000 (2019-2021)

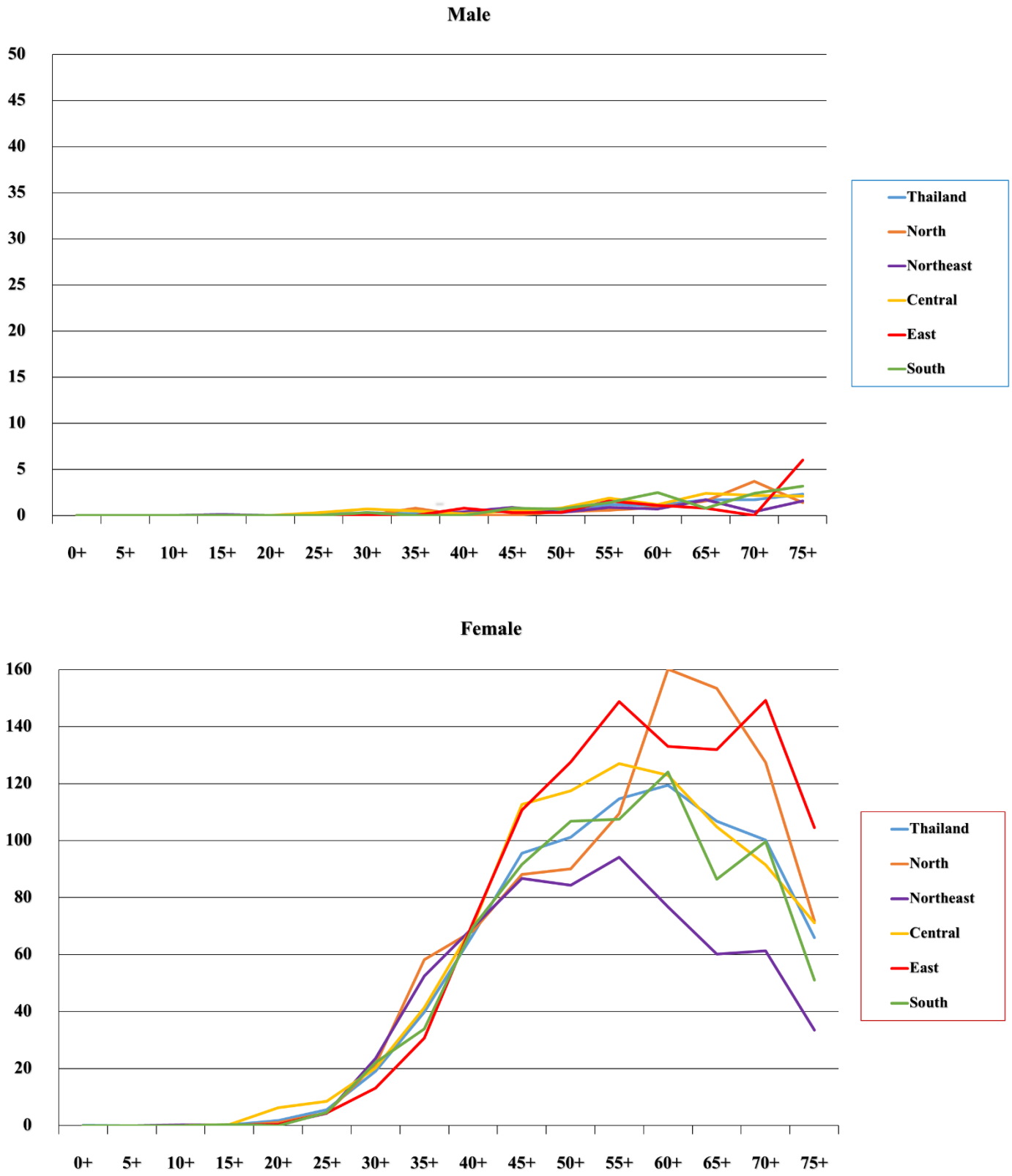


Figure 2.12.3 Histological types of breast cancer (2019-2021)

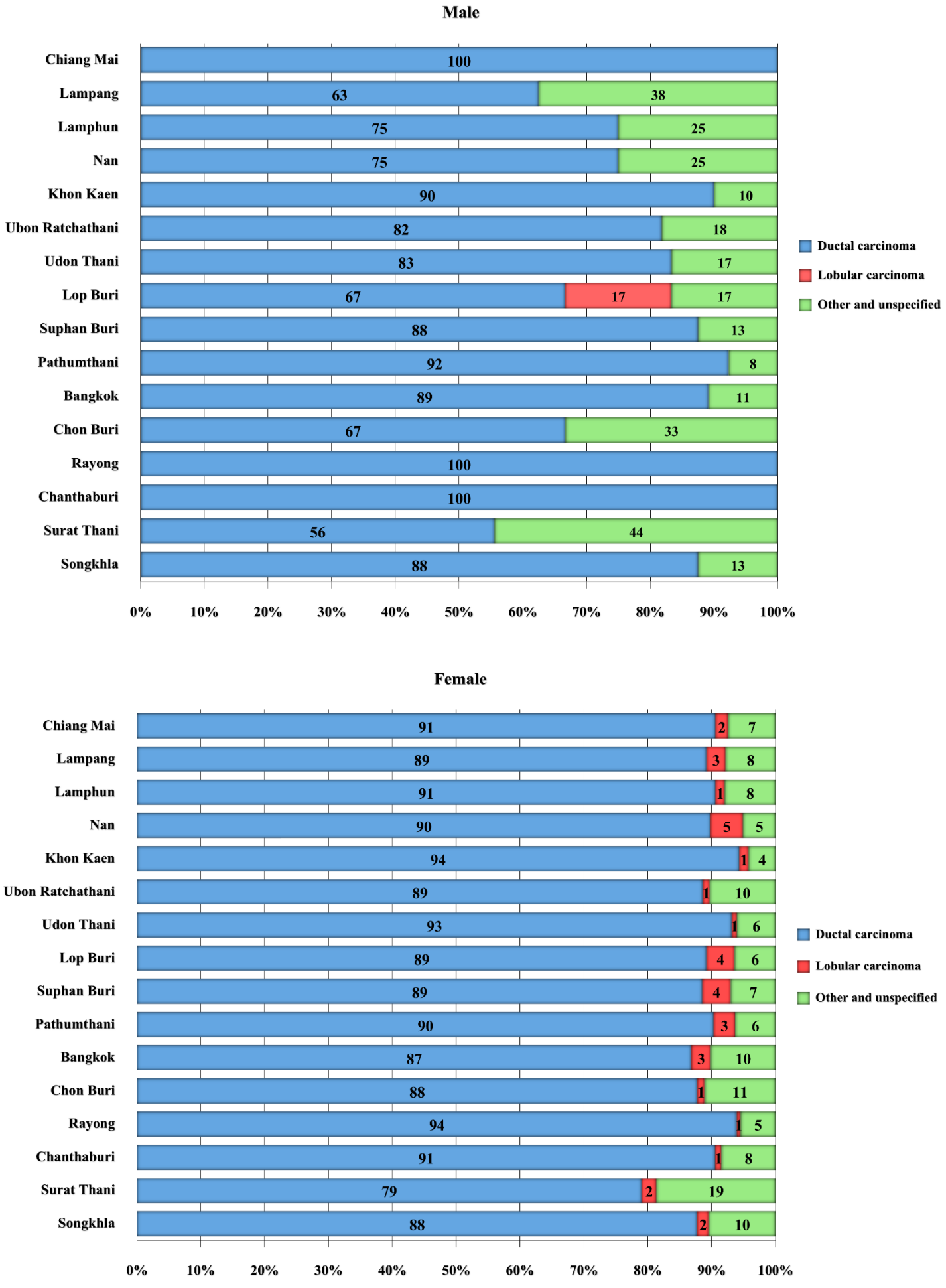
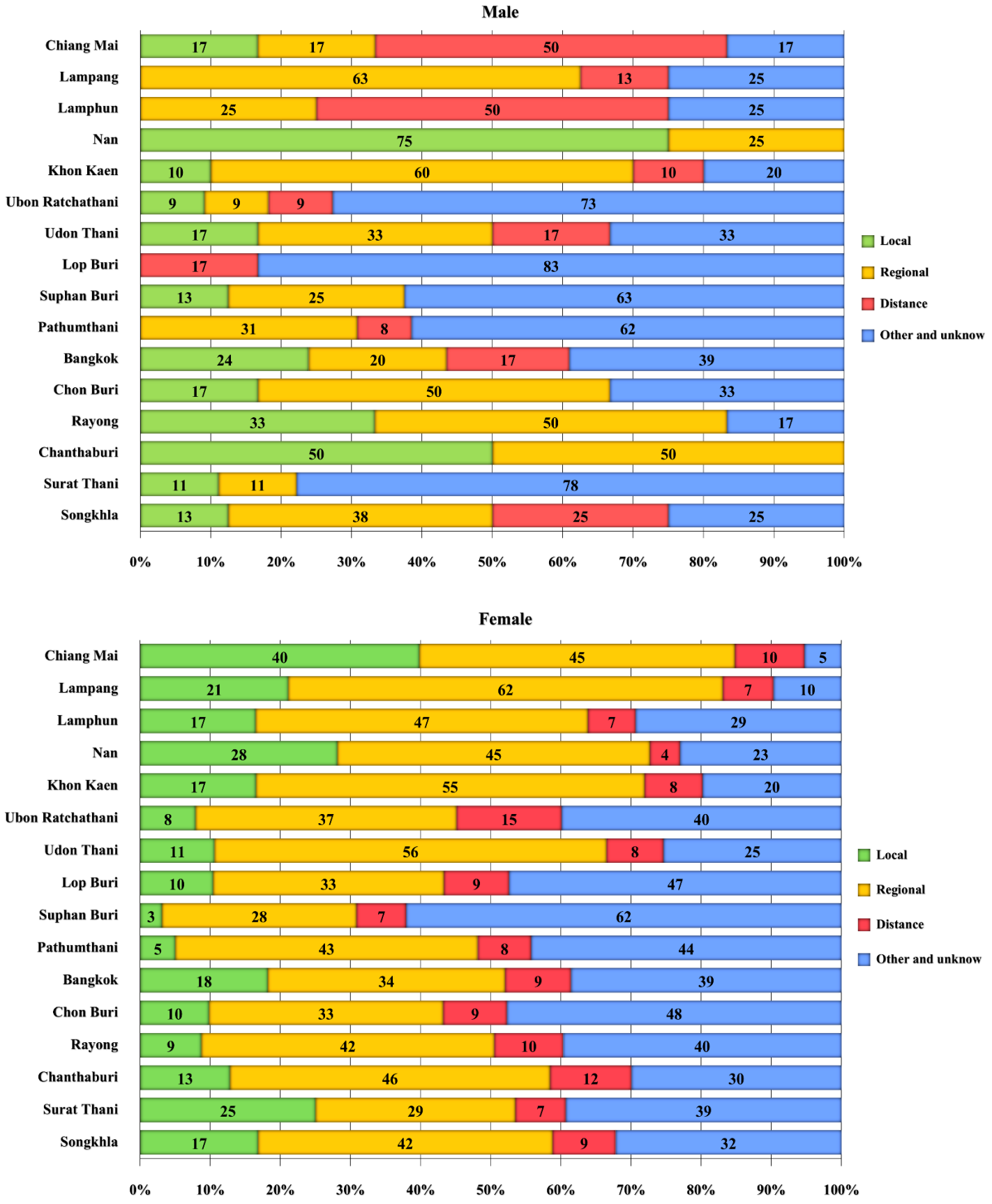


Figure 2.12.4 Stage distribution of breast cancer (2019-2021)



2.13 Cervix uteri

Figure 2.13.1 Cervical cancer in different regions, mean annual ASR per 100,000 (2019-2021)

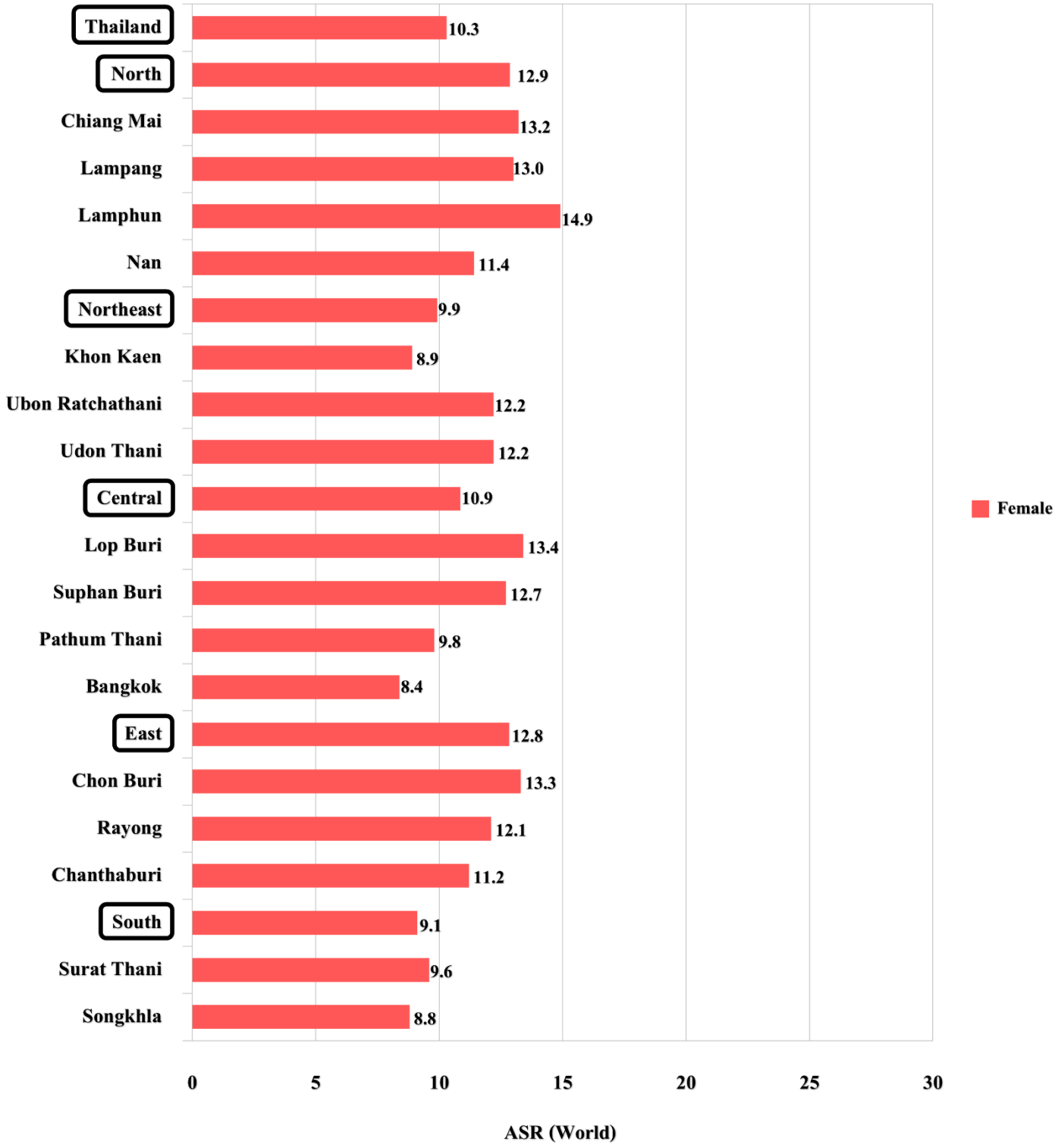


Figure 2.13.2 Age - specific incidence rates of cervical cancer, mean annual rate per 100,000 (2019-2021)

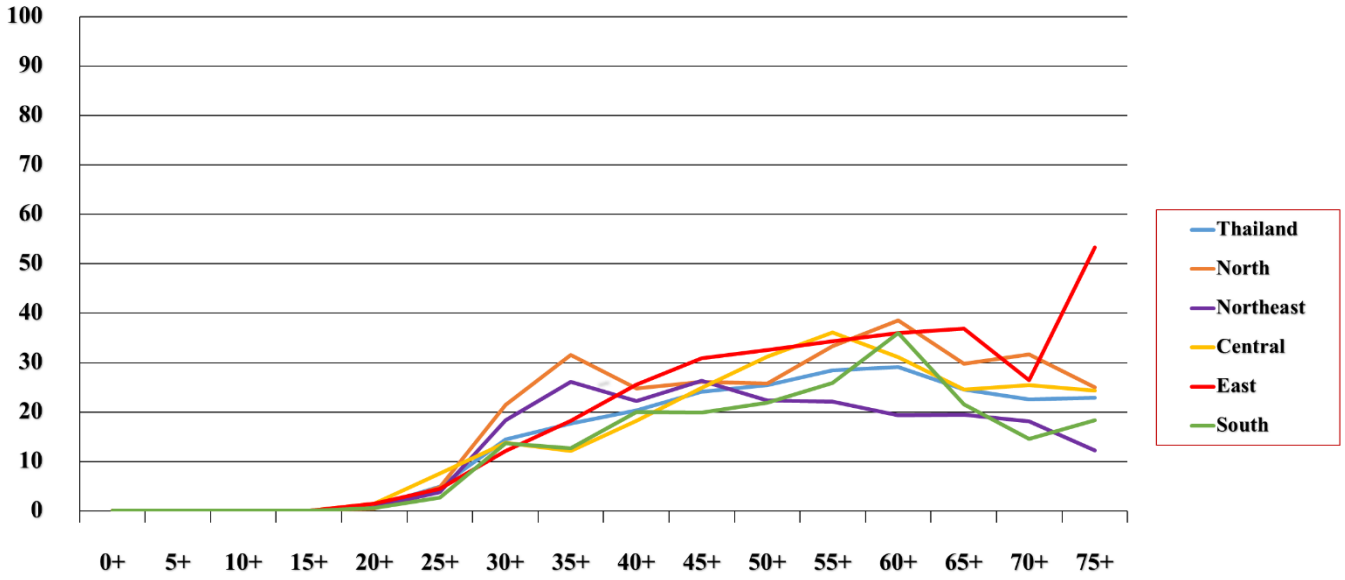


Figure 2.13.3 Cervical cancer: percentage distribution of histological types among microscopically verified (2019-2021)

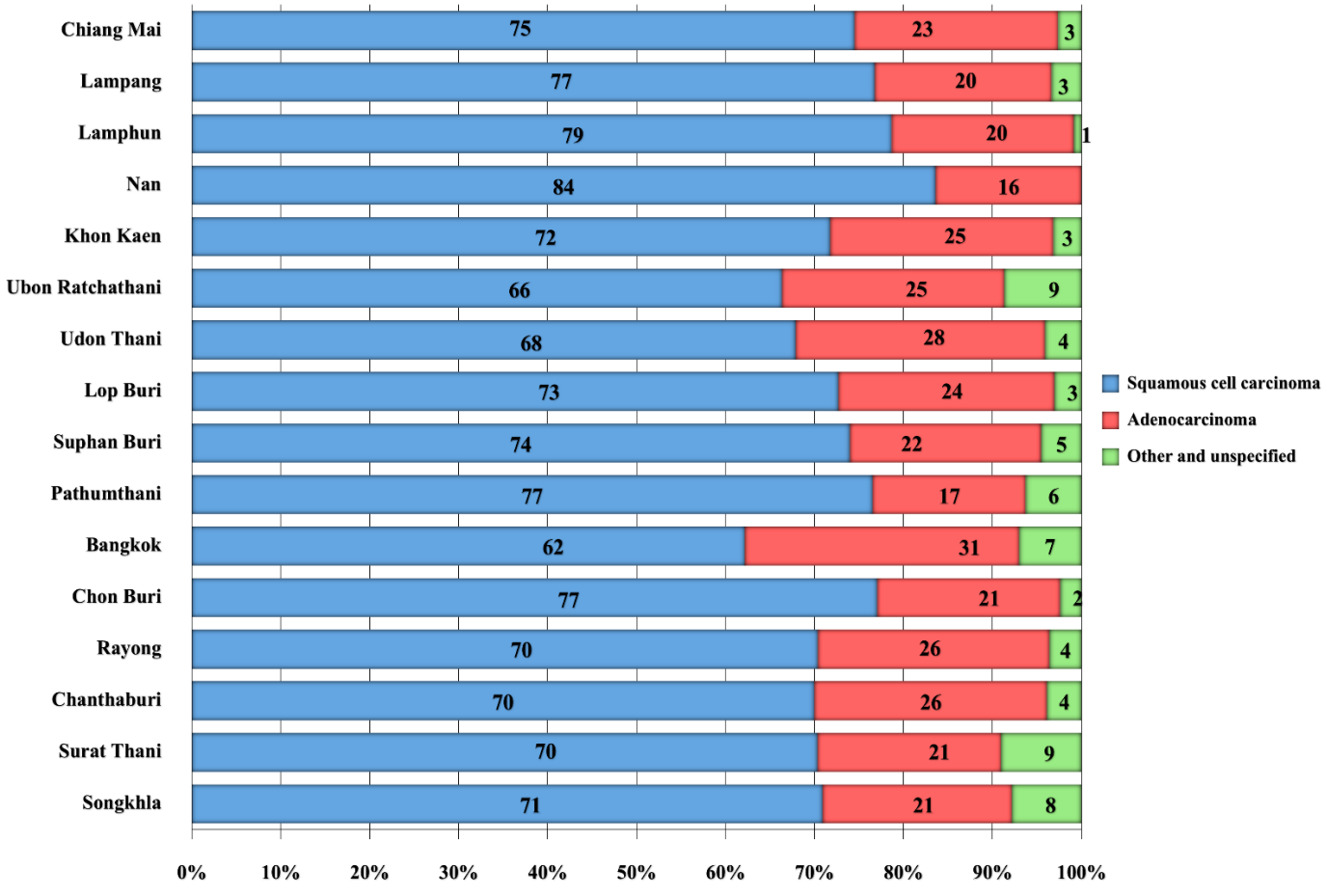
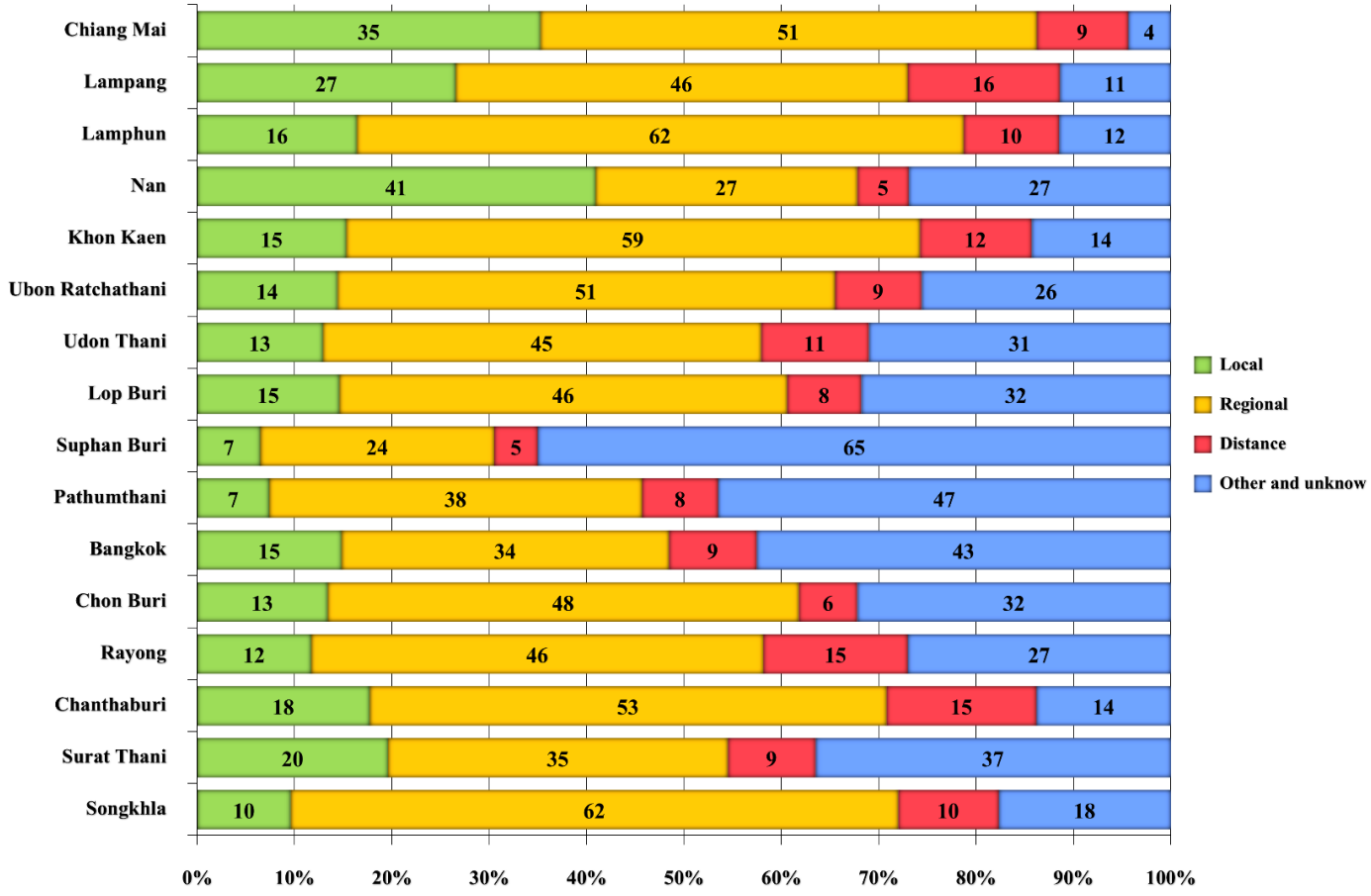


Figure 2.13.4 Stage distribution of cervical cancer (2019-2021)



2.14 Corpus uteri

Figure 2.14.1 Corpus uteri cancer in different regions, mean annual ASR per 100,000 (2019-2021)

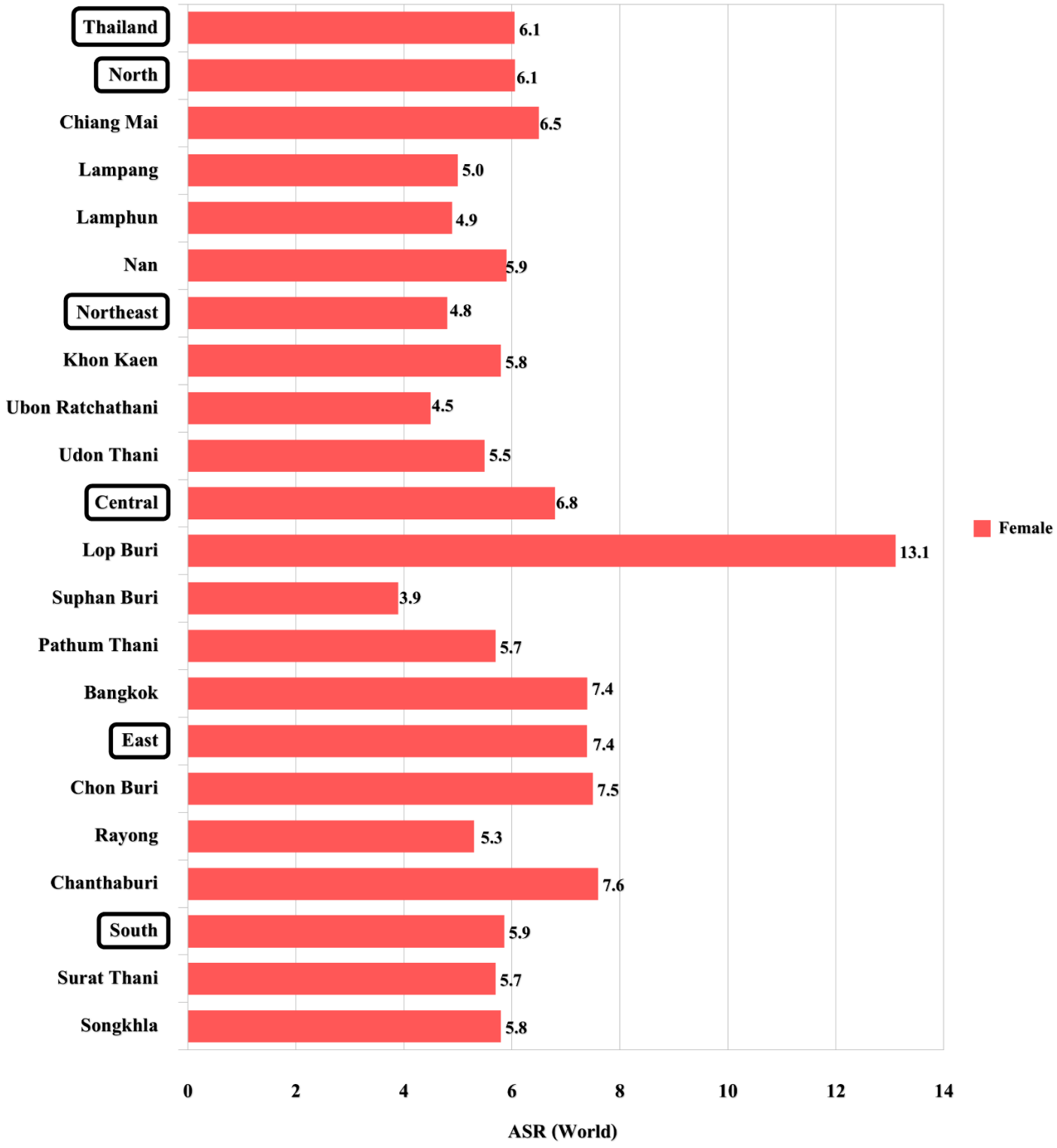


Figure 2.14.2 Age - specific incidence rates of corpus uteri cancer, mean annual rate per 100,000 (2019-2021)

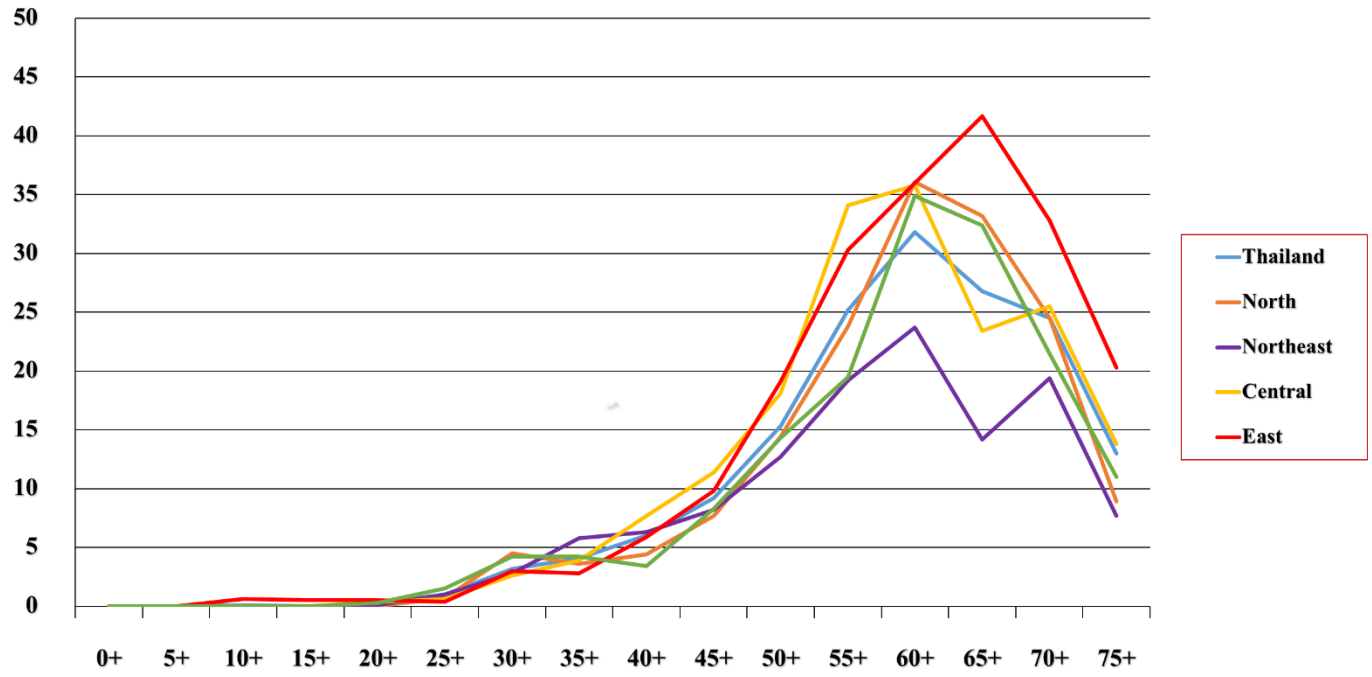
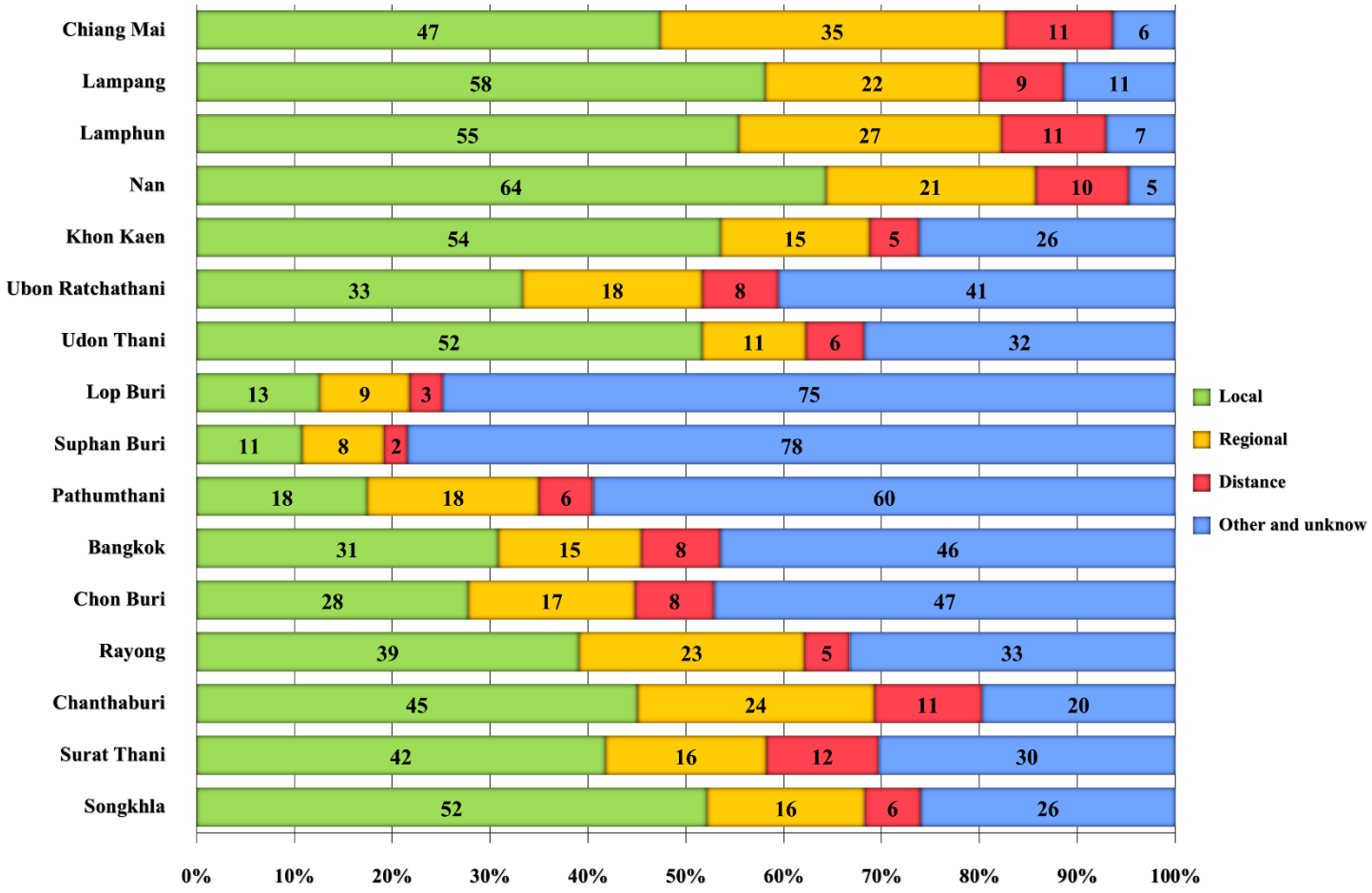


Figure 2.14.3 Stage distribution of corpus uteri cancer (2019-2021)



2.15 Ovary

Figure 2.15.1 Ovarian cancer in different regions, mean annual ASR per 100,000 (2019-2021)

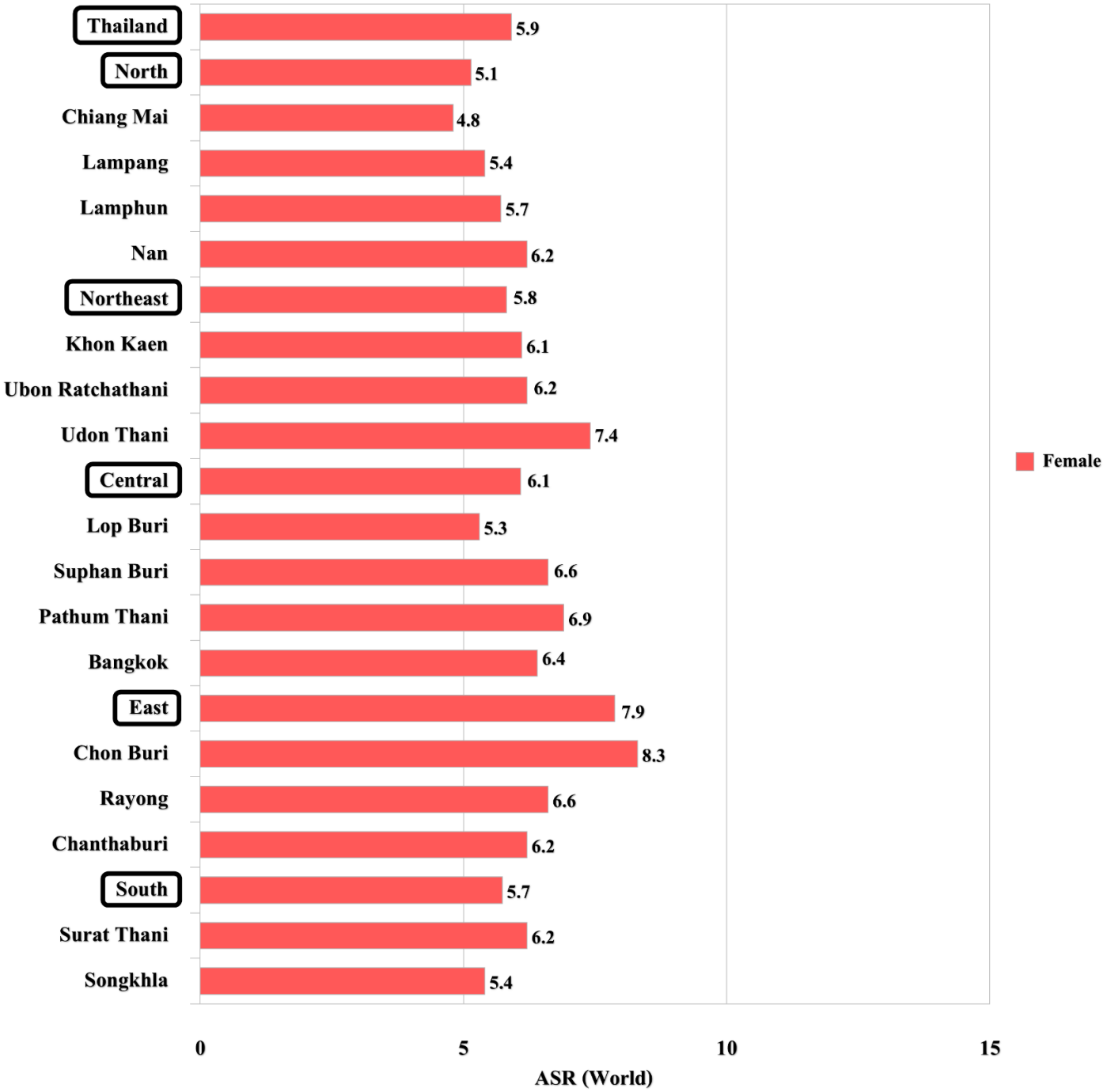


Figure 2.15.2 Age - specific incidence rates of ovarian cancer, mean annual rate per 100,000 (2019-2021)

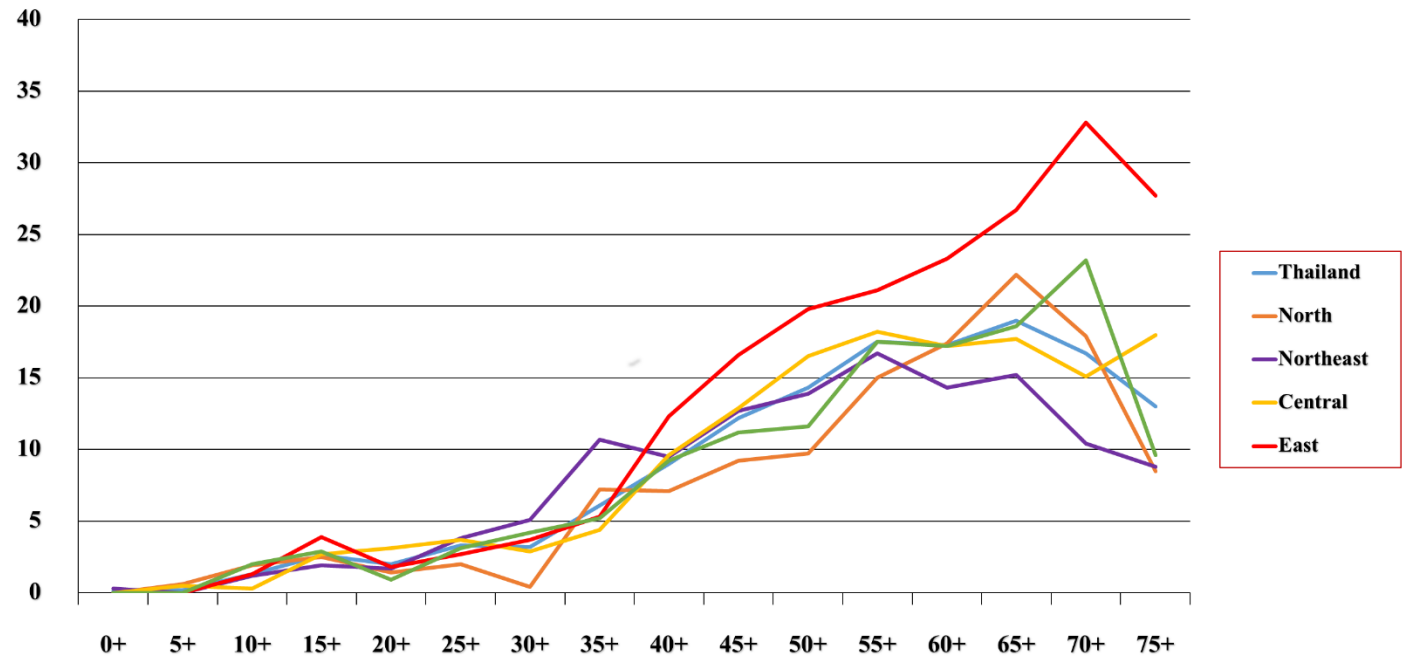


Figure 2.15.3 Histological types of ovarian cancer (2019-2021)

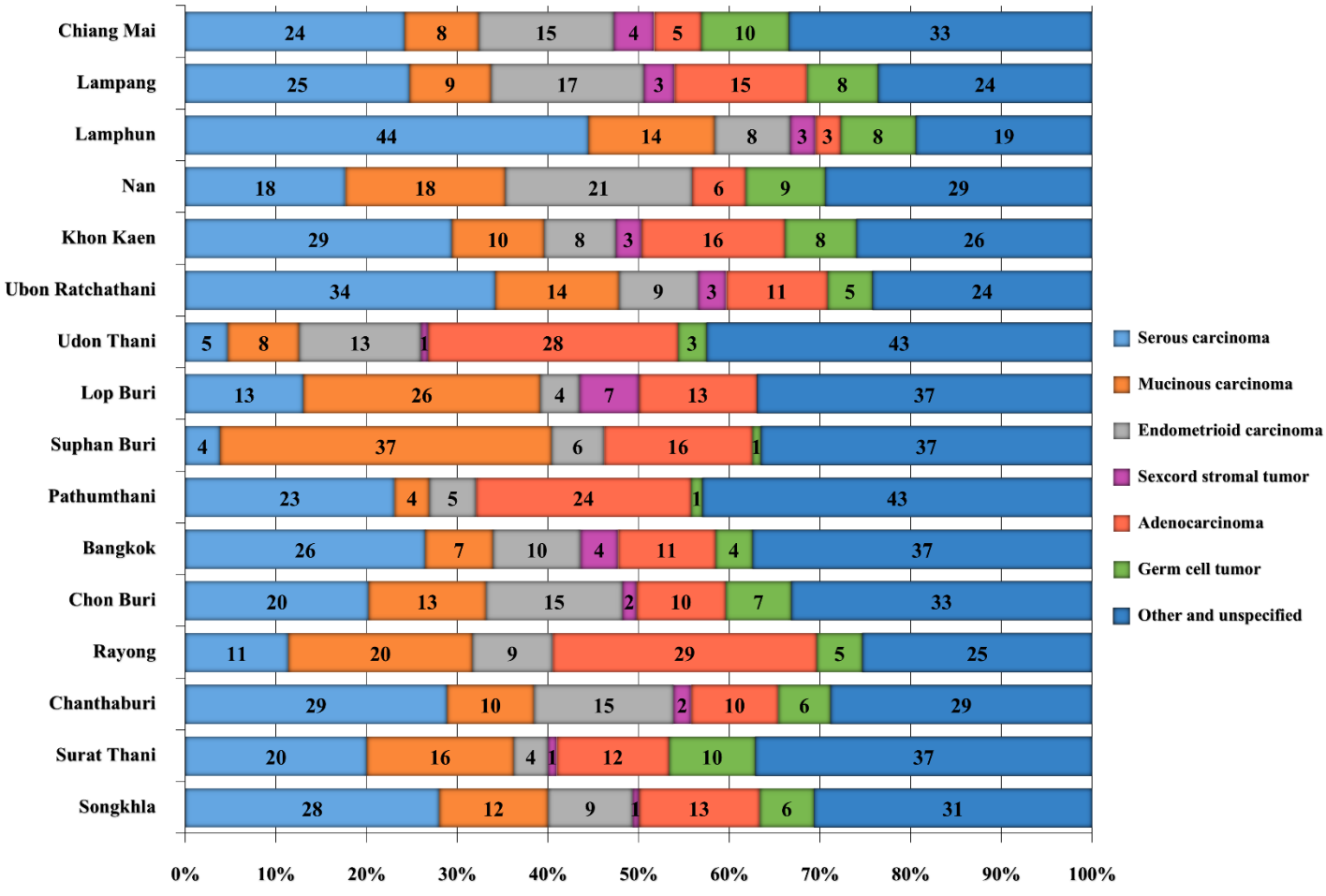
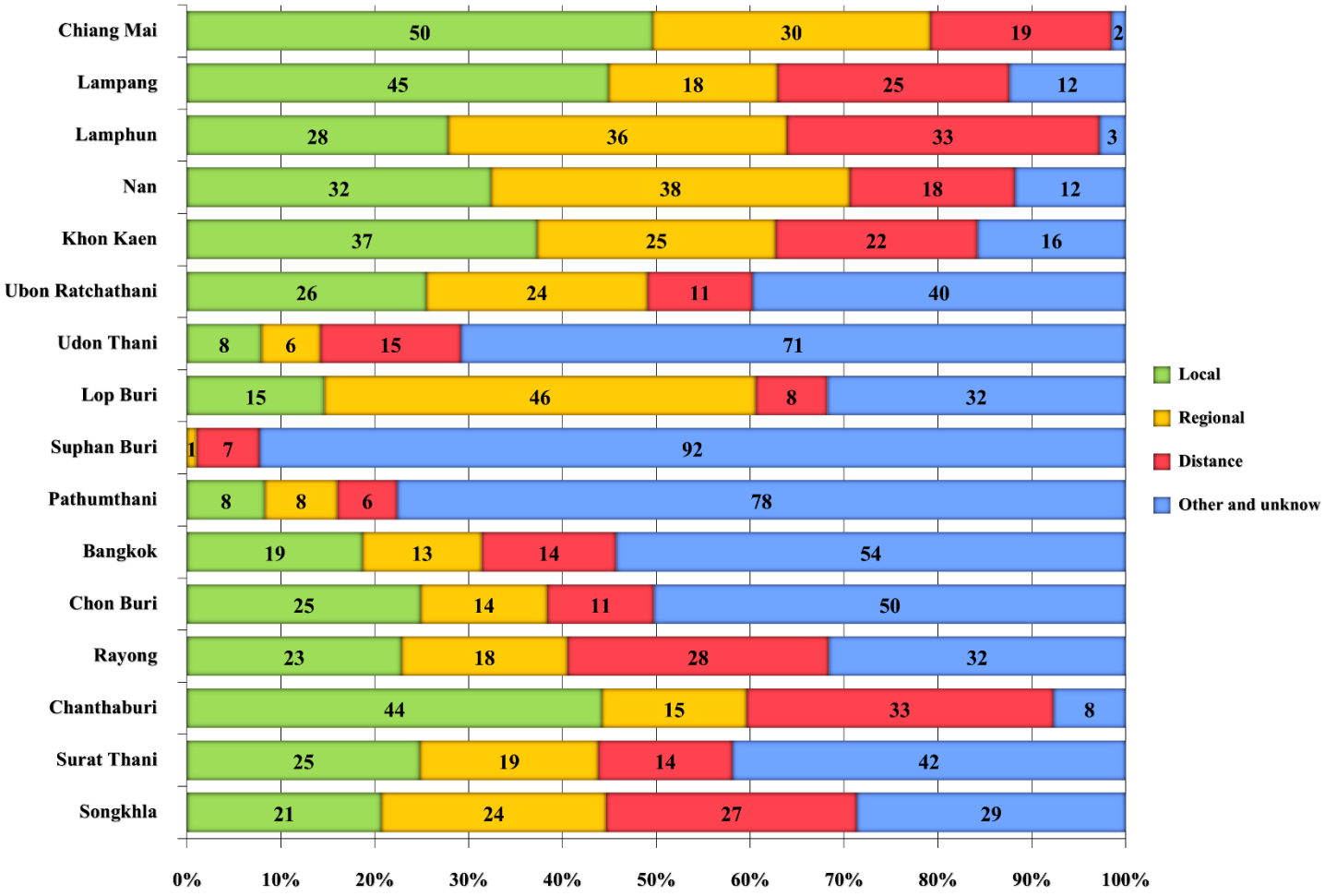


Figure 2.15.4 Stage distribution of ovarian cancer (2019-2021)



2.16 Prostate

Figure 2.16.1 Prostate cancer in different regions, mean annual ASR per 100,000 (2019-2021)

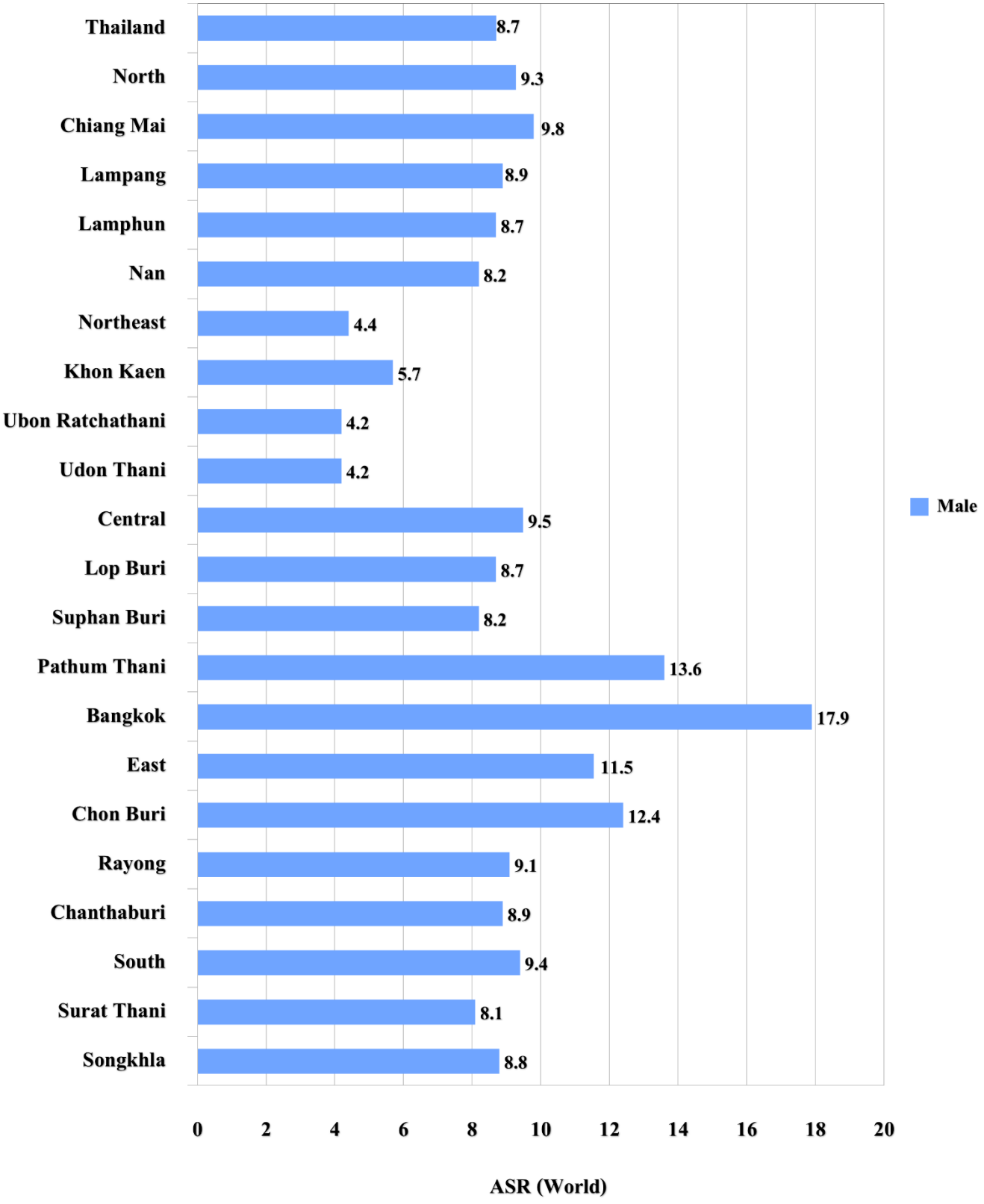
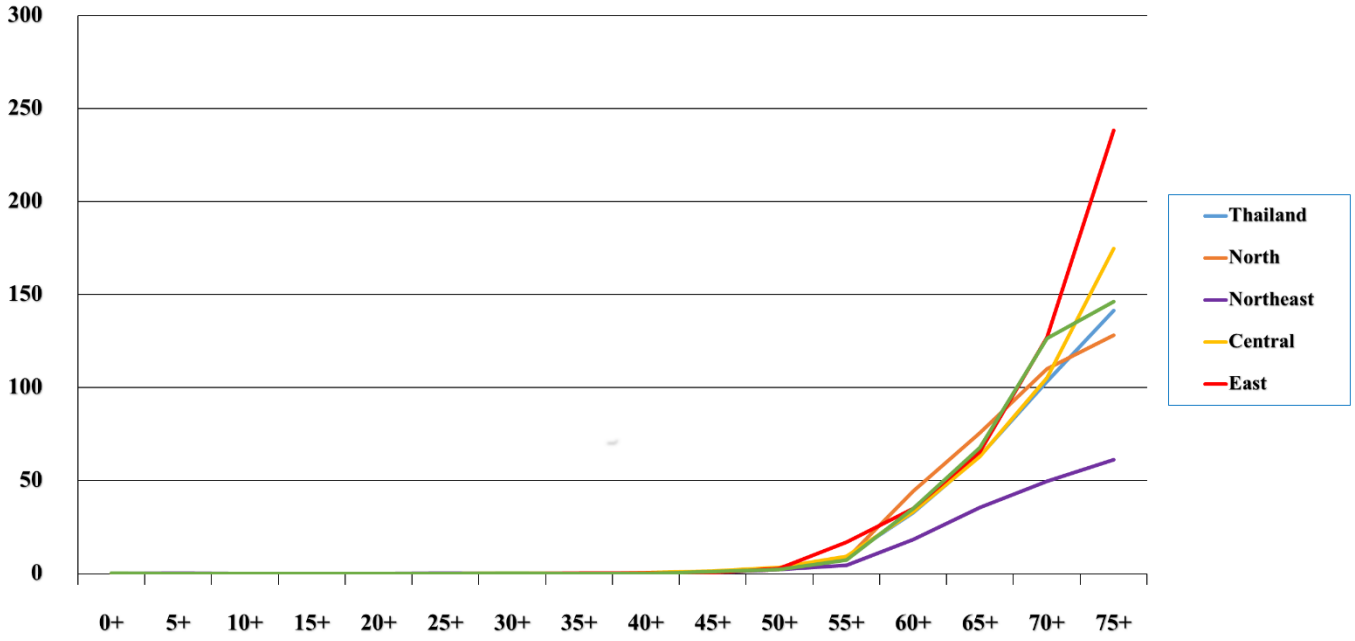


Figure 2.16.2 Age - specific incidence rates of prostate cancer, mean annual rate per 100,000 (2019-2021)



2.17 Urinary bladder

Figure 2.17.1 Urinary bladder cancer in different regions, mean annual ASR per 100,000 (2019-2021)

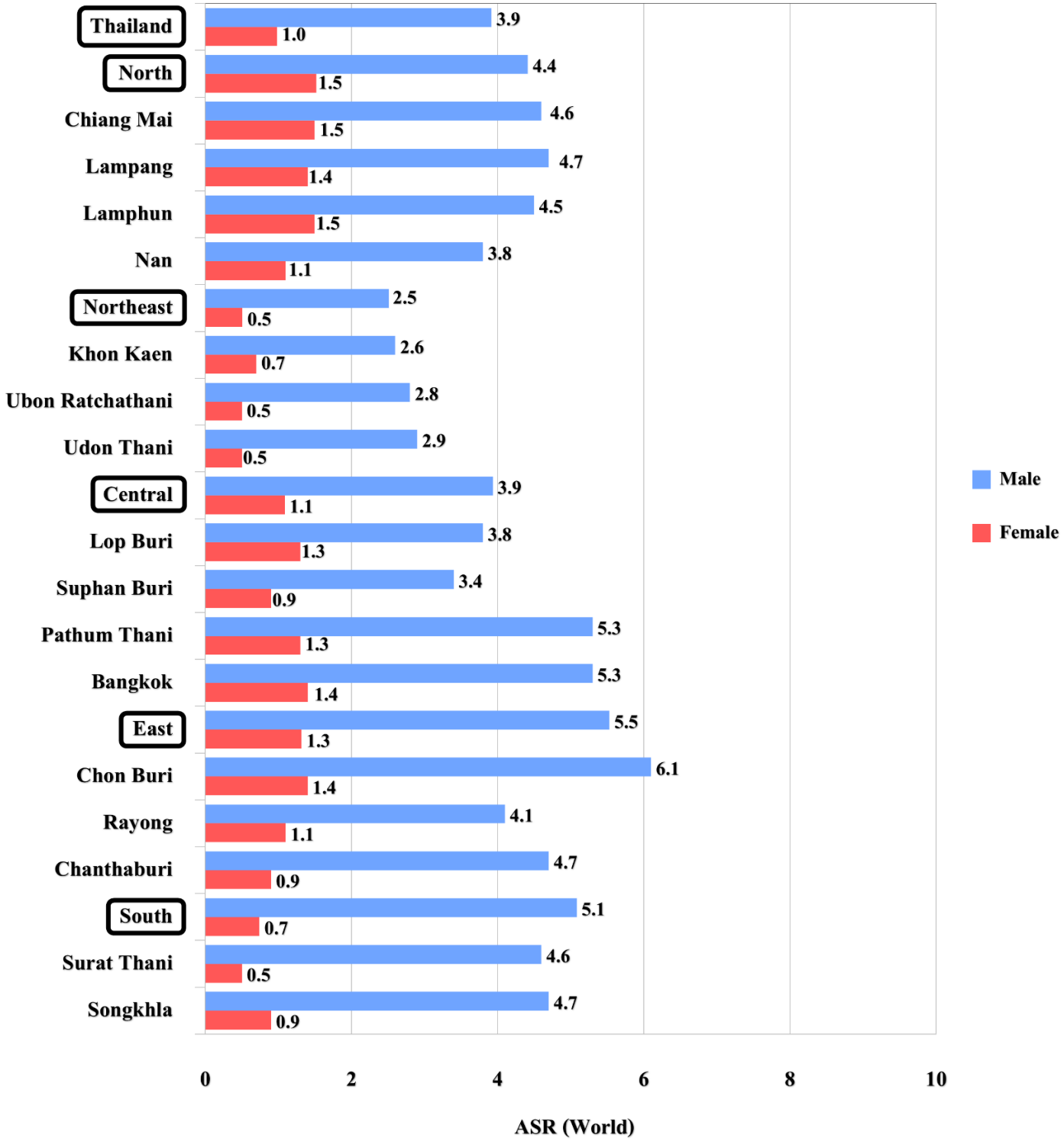


Figure 2.17.2 Age - specific incidence rates of urinary bladder cancer, mean annual rate per 100,000 (2019-2021)

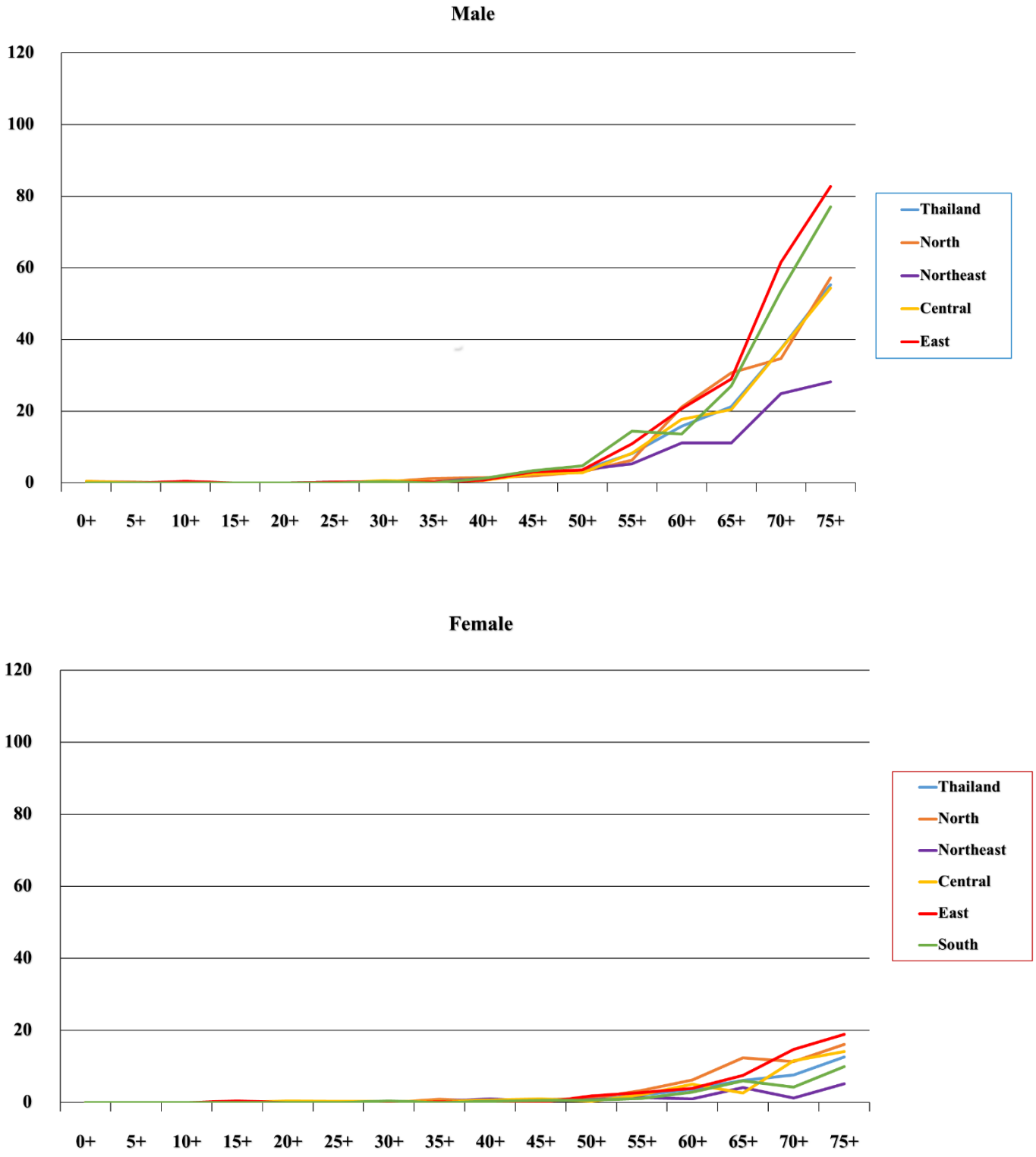


Figure 2.17.3 Histological types of urinary bladder cancer (2019-2021)

2.18 Thyroid gland

Figure 2.18.1 Thyroid cancer in different regions, mean annual ASR per 100,000 (2019-2021)

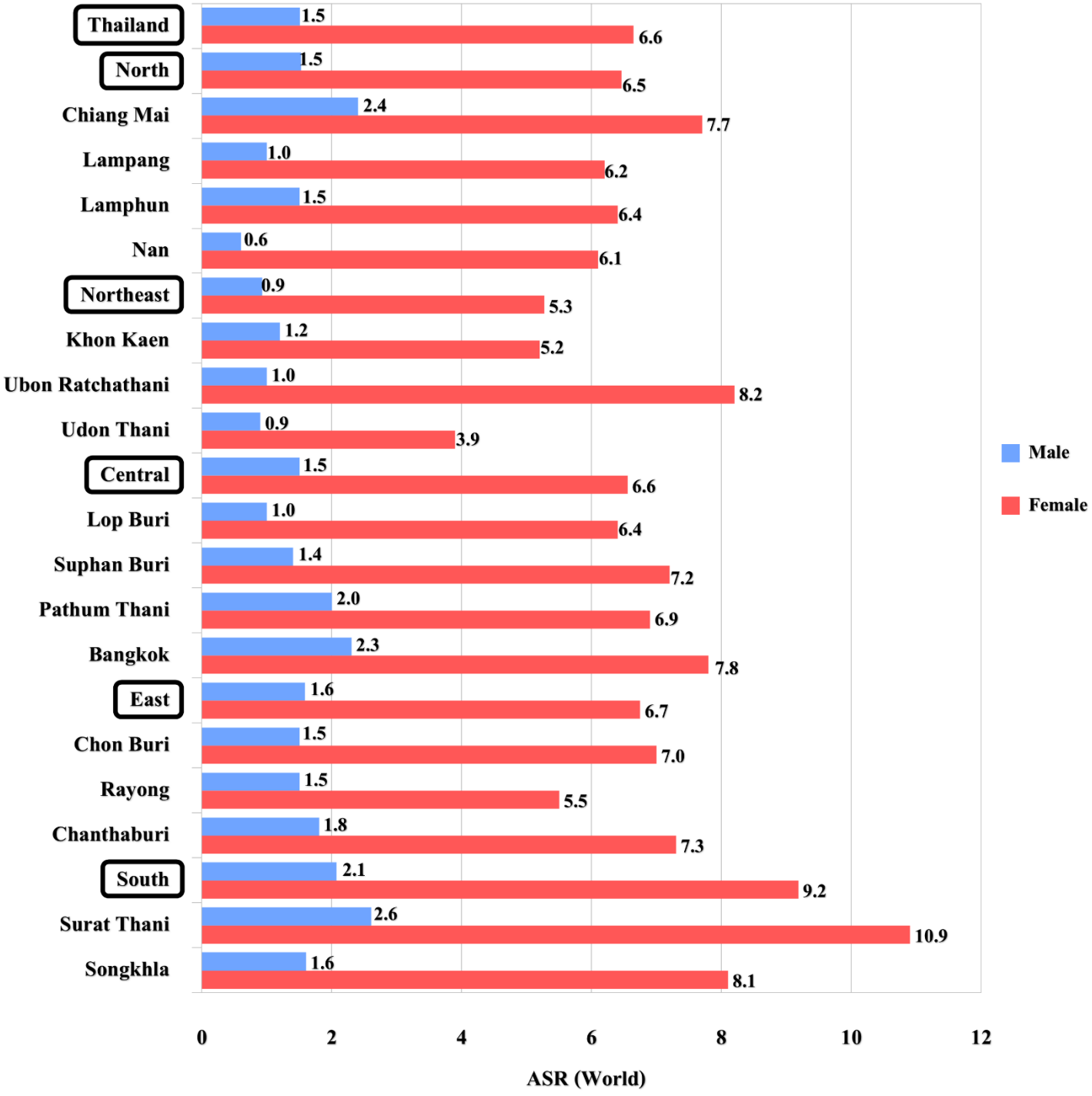


Figure 2.18.2 Age - specific incidence rates of thyroid cancer, mean annual rate per 100,000 (2019-2021)

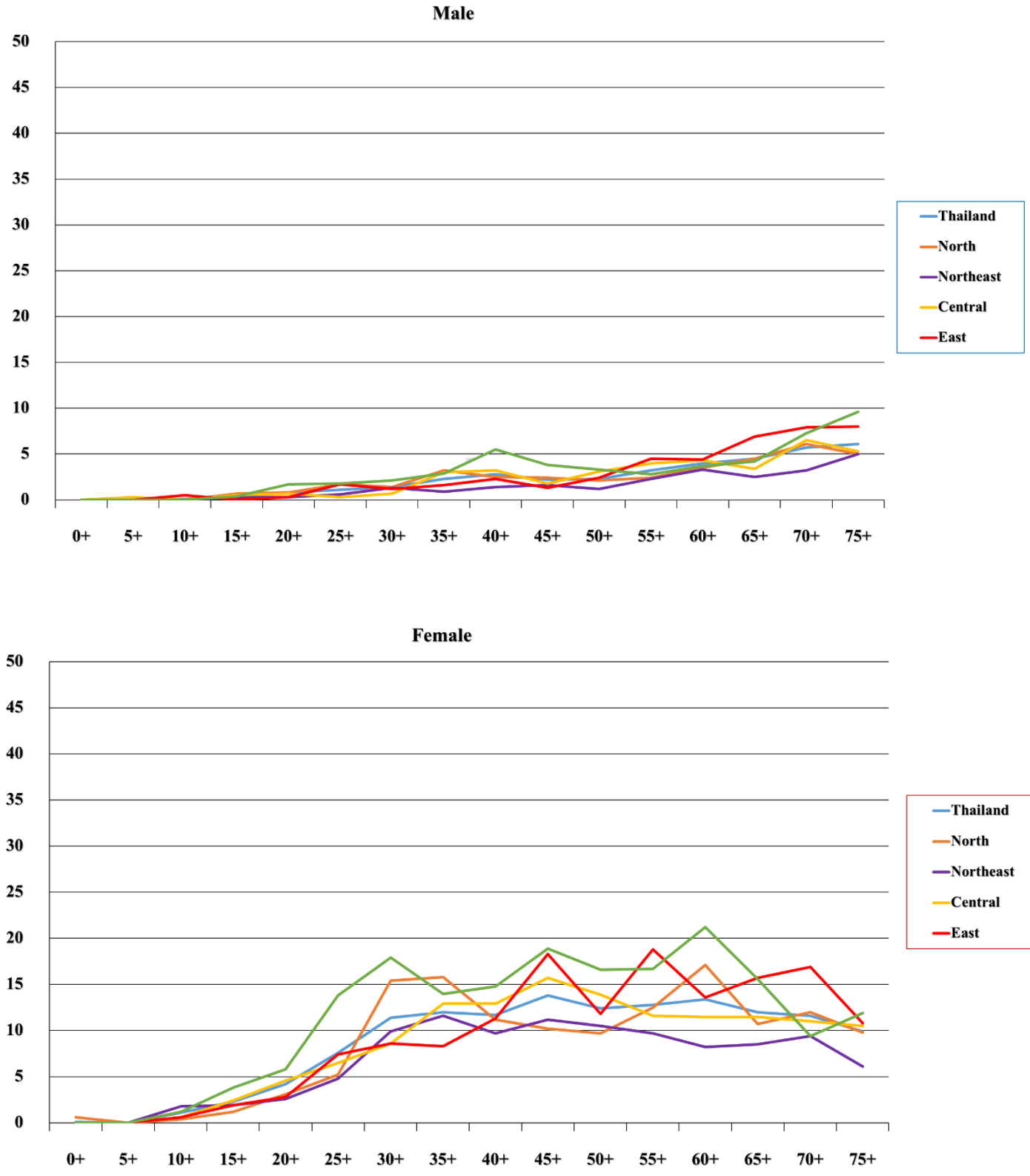
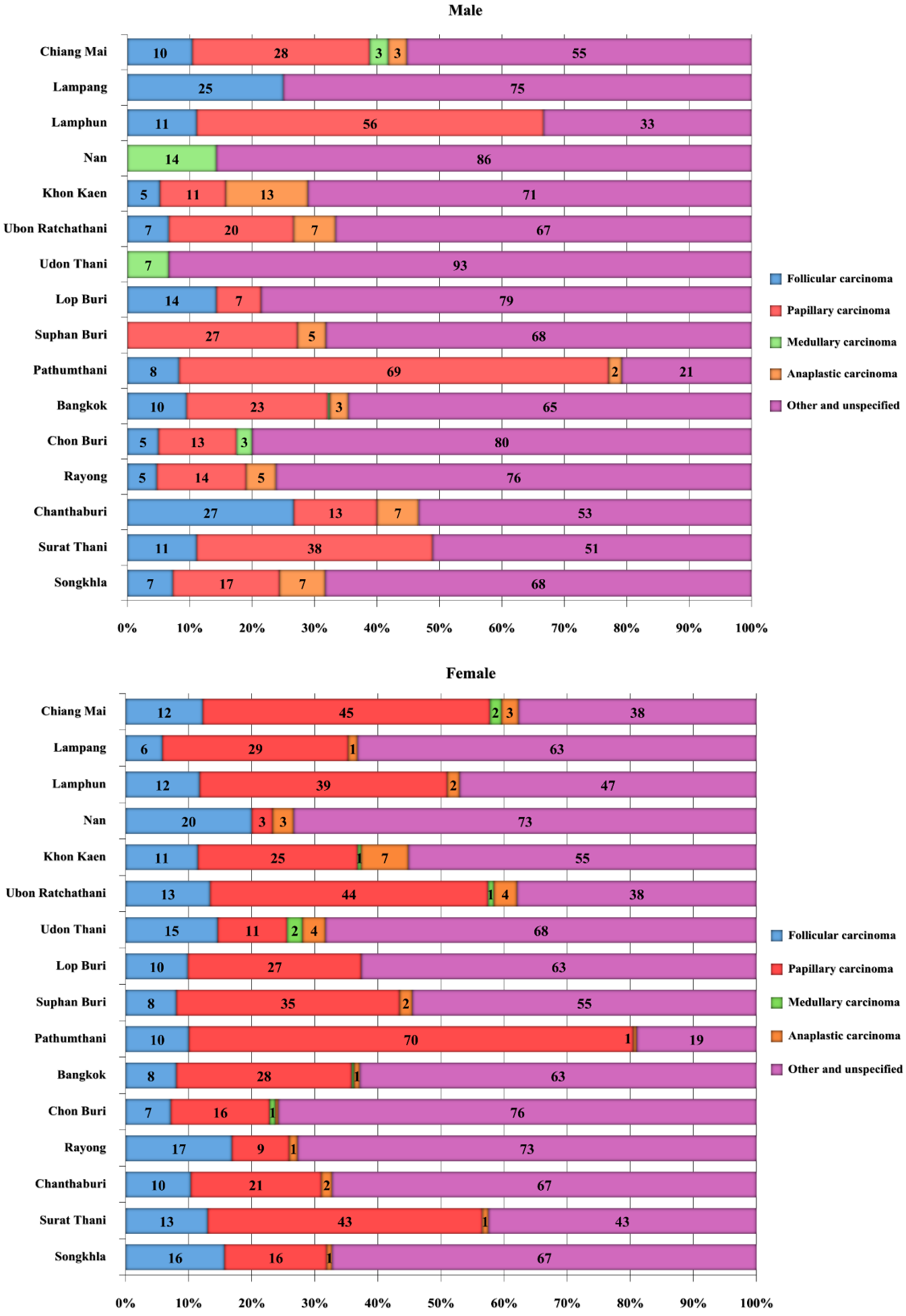


Figure 2.18.3 Histological types of thyroid cancer (2019-2021)



2.19 Lymphoma

Figure 2.19.1 Lymphoma cancer in different regions, mean annual ASR per 100,000 (2019-2021)

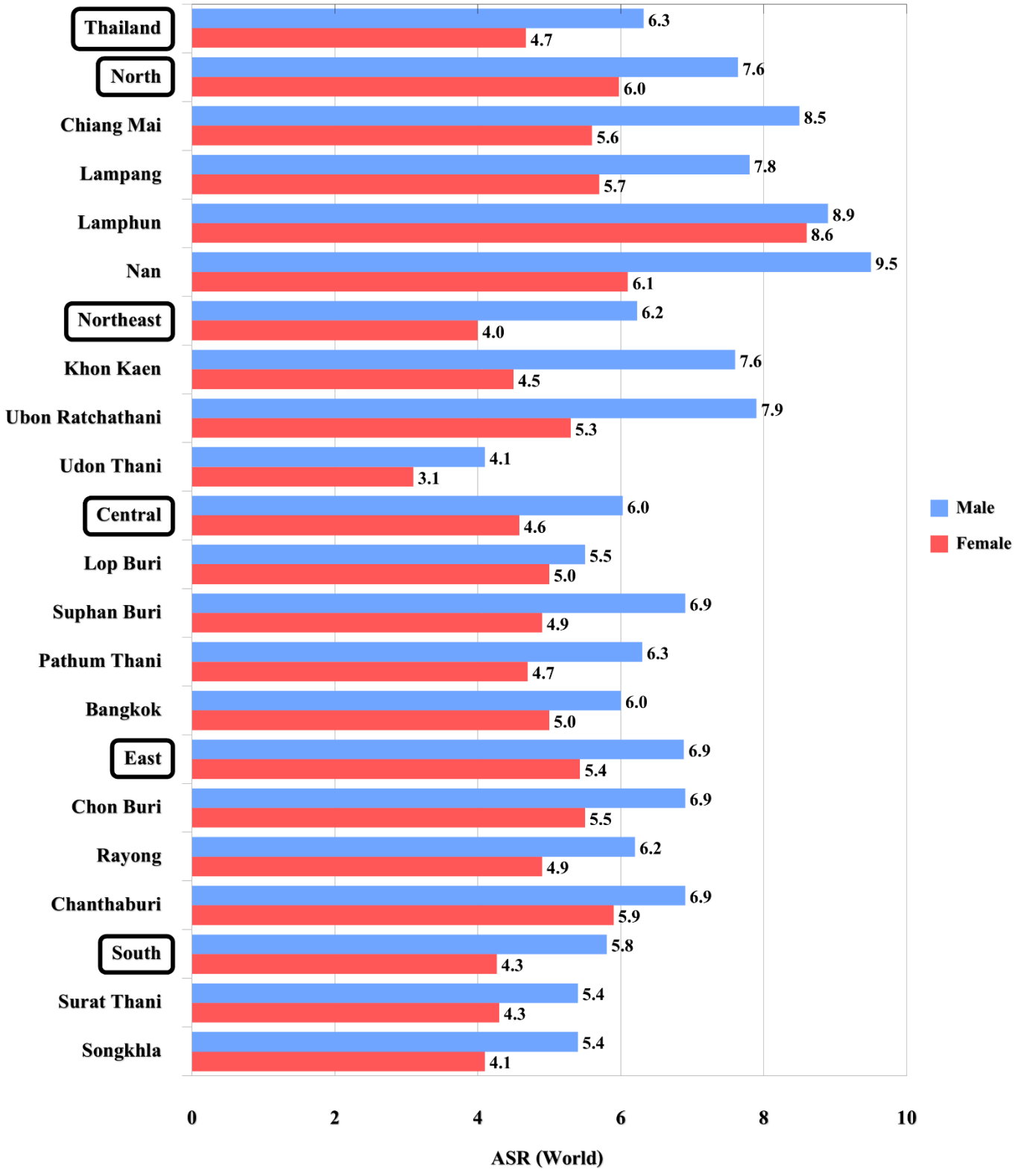
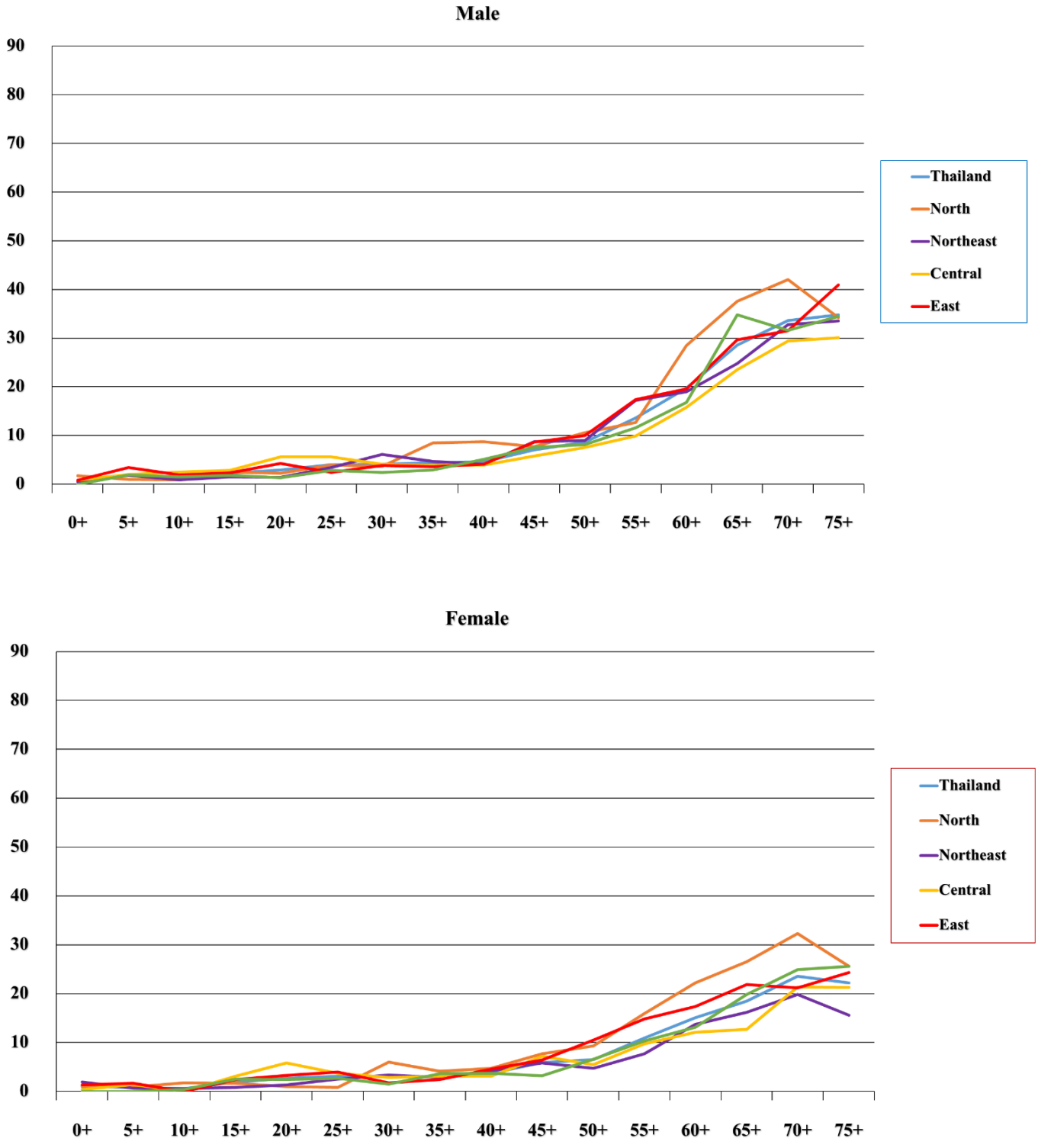


Figure 2.19.2 Age - specific incidence rates of lymphoma cancer, mean annual rate per 100,000 (2019-2021)



2.20 Leukemia

Figure 2.20.1 Leukemia cancer in different regions, mean annual ASR per 100,000 (2019-2021)

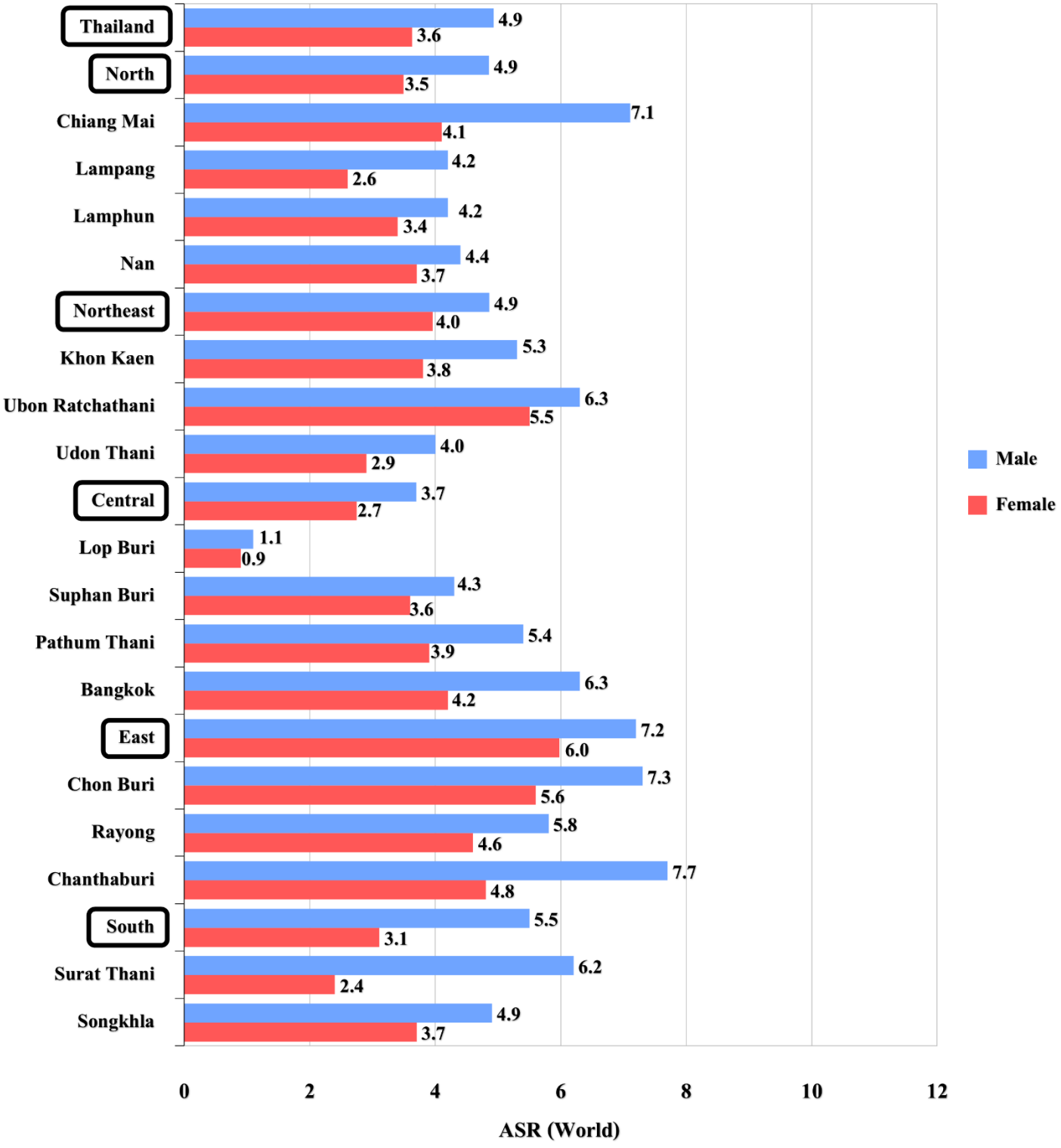


Figure 2.20.2 Age - specific incidence rates of leukemia cancer, mean annual rate per 100,000 (2019-2021)

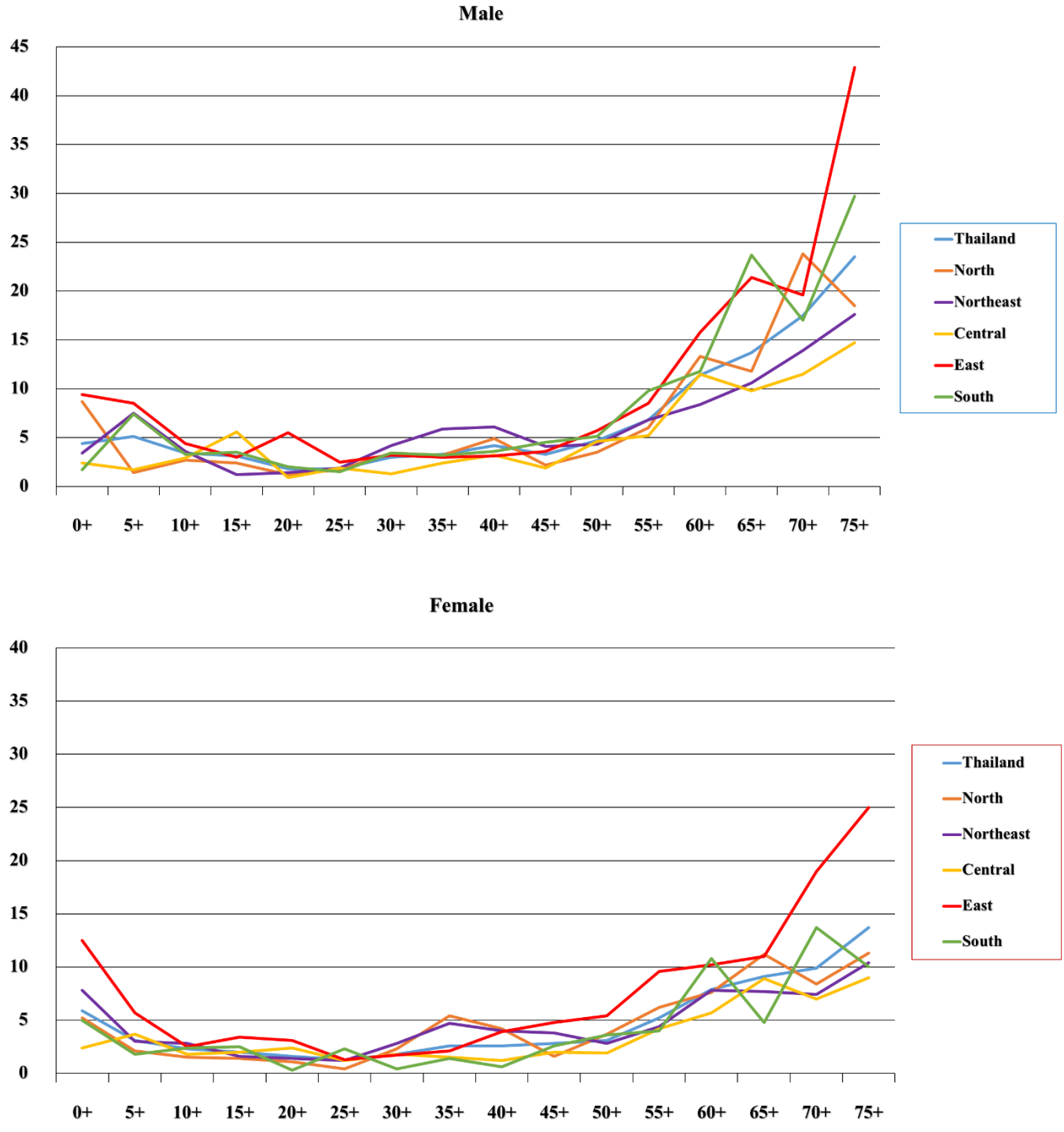
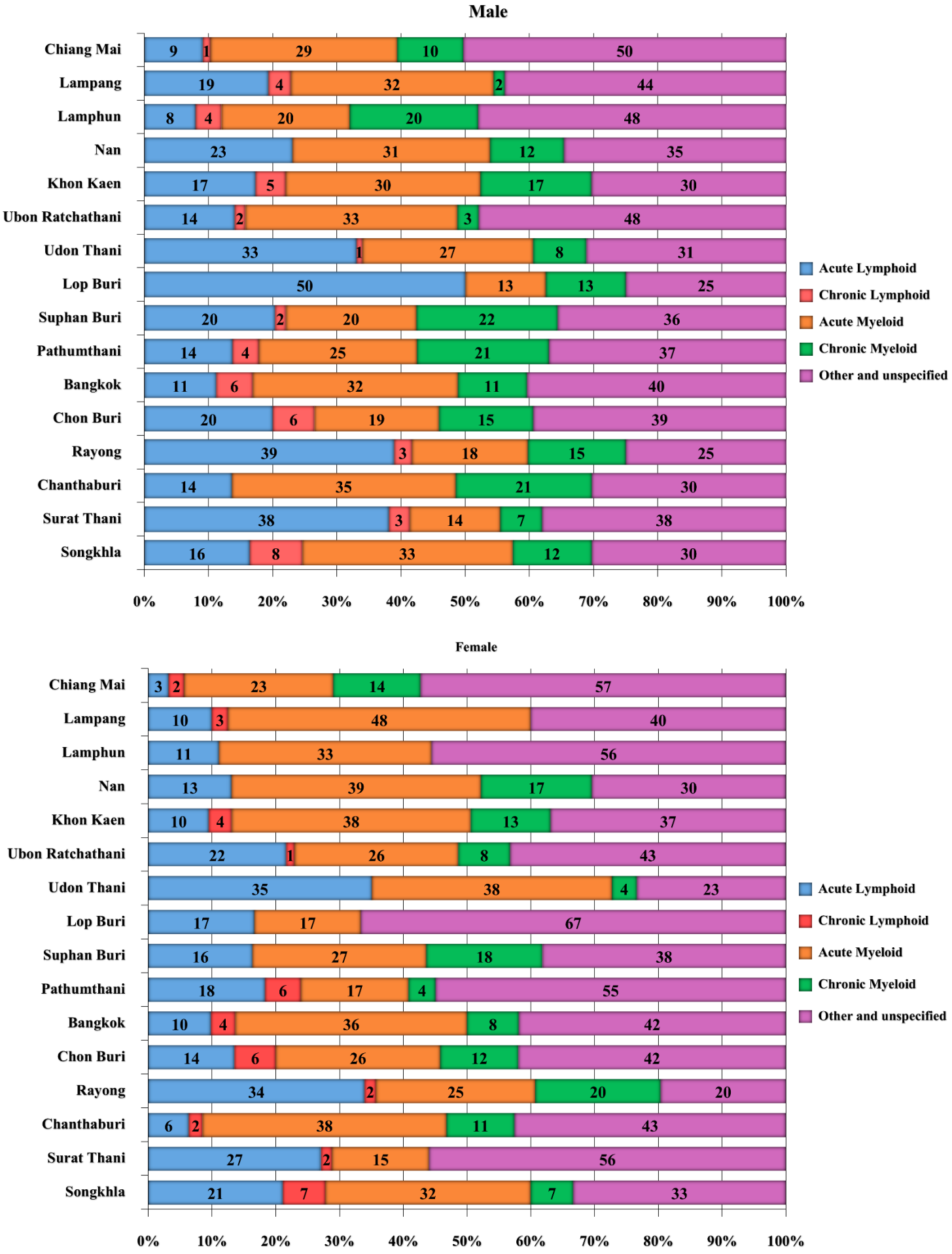


Figure 2.20.3 Histological types of leukemia cancer (2019-2021)



Chapter 3

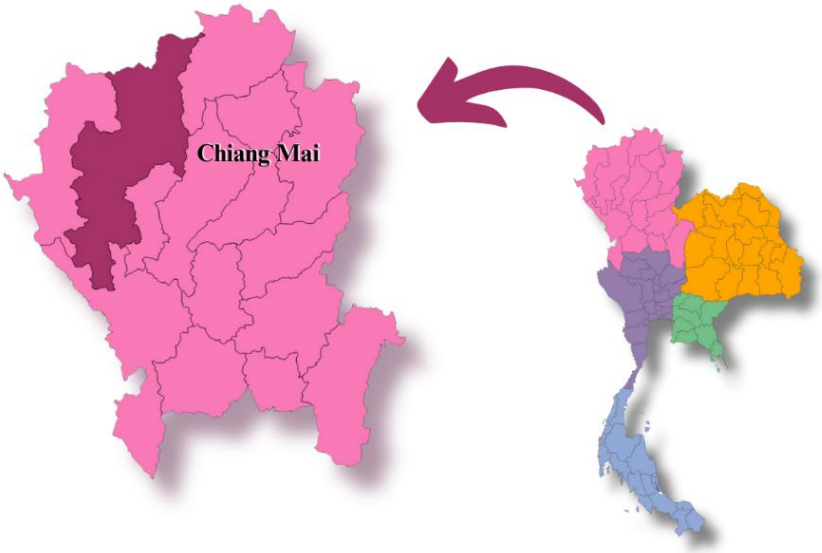
Cancer Incidence in 16 Cancer Registries

3.1 Chiang Mai Cancer Registry

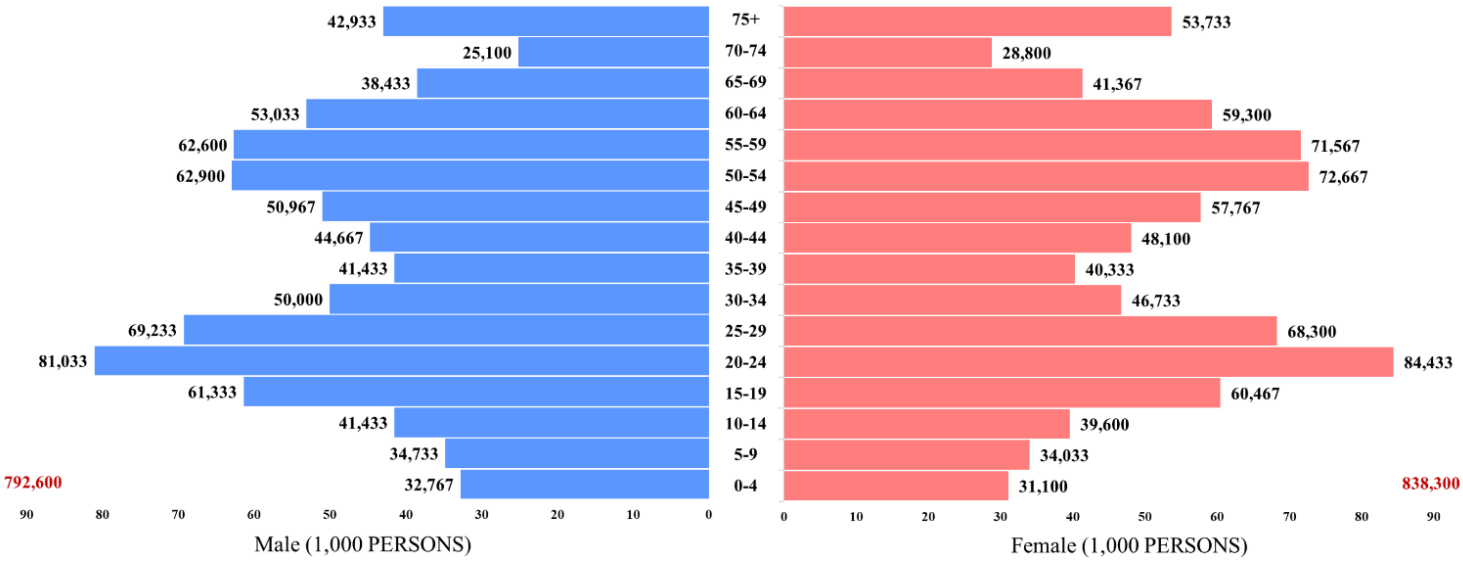
Registration area

Chiang Mai province is the second largest in Thailand, famous for its situation in the mountainous upper part of the north of Thailand. It is 310 meters above sea level at latitude 16-18 N and longitude 99 E. To the north of Chiang Mai is the country of Myanmar. The land area is 20,107 square kilometers, divided into 25 districts. In the year 2020 the estimated population of Chiang Mai was 1,630,900 of which 838,300 were females and 792,600 were males. The most crowded district was Mueang district. The population is mainly Thai, but others include Chinese, and hill tribe minority groups.

The geography of Chiang Mai is a plain surrounded by high mountains that tend to collect polluting agents. Eighty percent of the population in Chiang Mai are farmers who grow rice, onions, longans, lychees, oranges, etc. (www.chiangmai.go.th)



Population pyramid Chiang Mai
estimated population in 2020 (2019 – 2021)



Cancer care facilities

General health care in Thailand is mainly provided by the government. In each district of Chiang Mai, there is one community hospital with network health care facilities except for Mae Rim district. In the urban area (Mueang district) of Chiang Mai, there are 1 university hospital, 1 municipal hospital, 3 military hospitals and 15 private hospitals. The total number of hospital beds in Chiang Mai was 4,999 beds with 1,388 doctors in the year 2020. Most of the cancer cases are referred to provincial, university or big private hospitals which can provide surgery and chemotherapy. Radiotherapy can be performed in Chiang Mai University Hospital, Nakornping Hospital and Theppanya Hospital.

Registry procedures

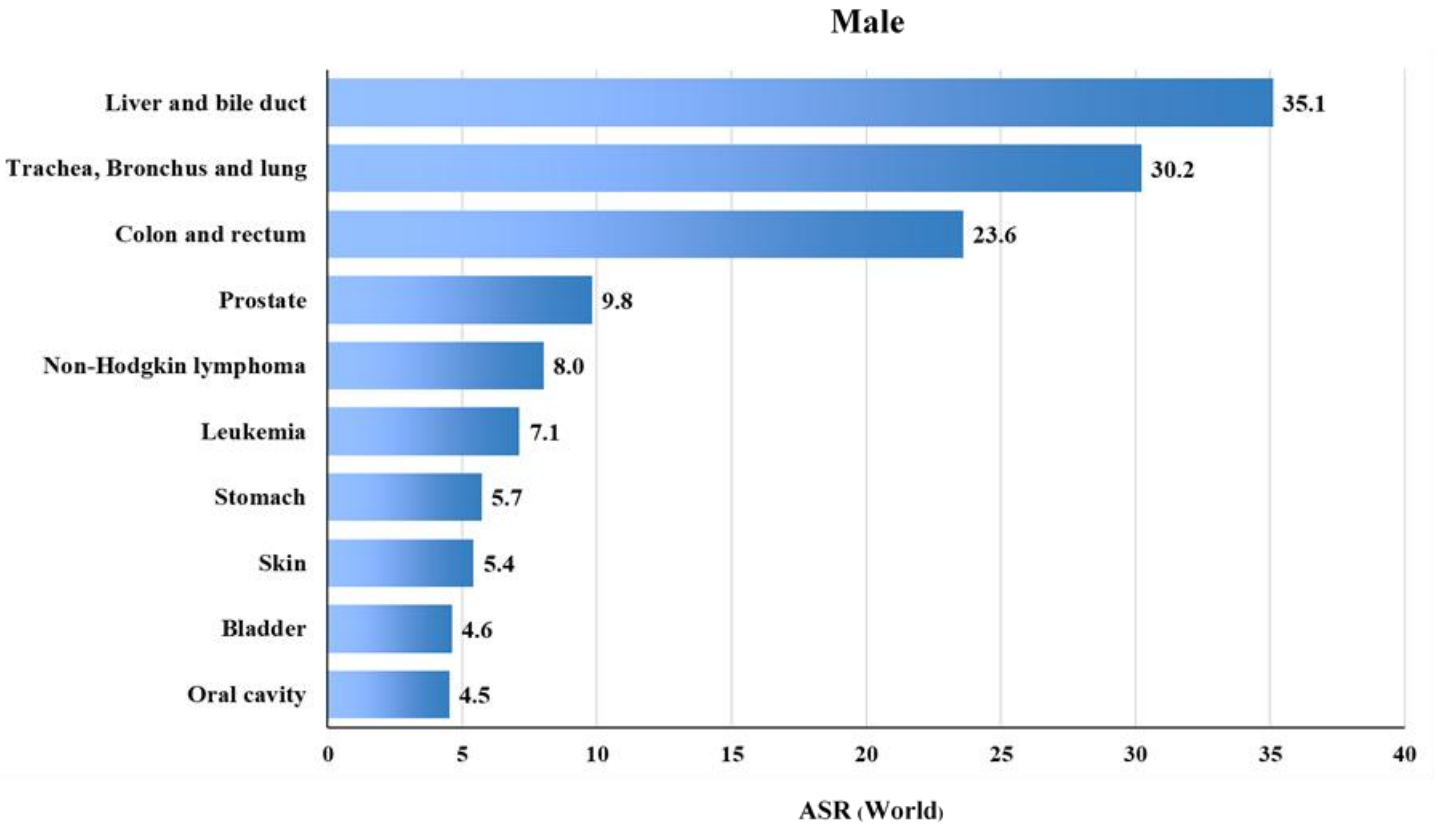
The cancer unit, Faculty of Medicine, Chiang Mai University has been maintaining a hospital-based cancer registry since 1963. Data on cancer patients are now collected actively from every hospital in Chiang Mai. The data of Chiang Mai residents are extracted from the hospital-based cancer registry of Chiang Mai University hospital. The registry personnel visit every hospital in Chiang Mai to review the medical records of cancer patients to fill the registration forms. Lists of pathological diagnoses from every pathological center in Chiang Mai are also explored for cancer cases. The case record form includes the patient's demography, date of diagnoses, tumor site, histology, extent of disease, method of diagnosis and treatment modalities. Follow-up is also conducted to update the patients' status as dead or alive. ICD-O version 3.2 is used in coding of the primary sites of tumor and histology types. The record forms are reviewed by the chief of the cancer registry.

All data are checked for duplication, verified, coded and keyed into a fox-based program and converted to the CanReg5 program. Second primary cancer was also registered by multiple primary rule (IARC, 2004). Death certificates specifying cancer are collected from Bureau of Policy and Strategy, Ministry of Public Health (Thailand). The information is matched with the existing records, unmatched cases being registered as death certificate only (DCO).

Summary of results

New cases registered in 2020; 2,237 were males and 2,255 were females, making 4,492 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 174.6 per 100,000, with liver and bile duct cancer ranking first (ASR = 35.1) followed by trachea, bronchus and lung (ASR = 30.2) and colon and rectum (ASR = 23.6). The ASR of all cancer sites in females was 166.1 per 100,000, the three leading cancer sites being breast (ASR = 40.7), trachea, bronchus and lung (ASR = 19.1) and colon and rectum (ASR = 15.8)

Figure 3.1.1 Leading cancer in Chiang Mai (mean annual ASR 2019-2021)



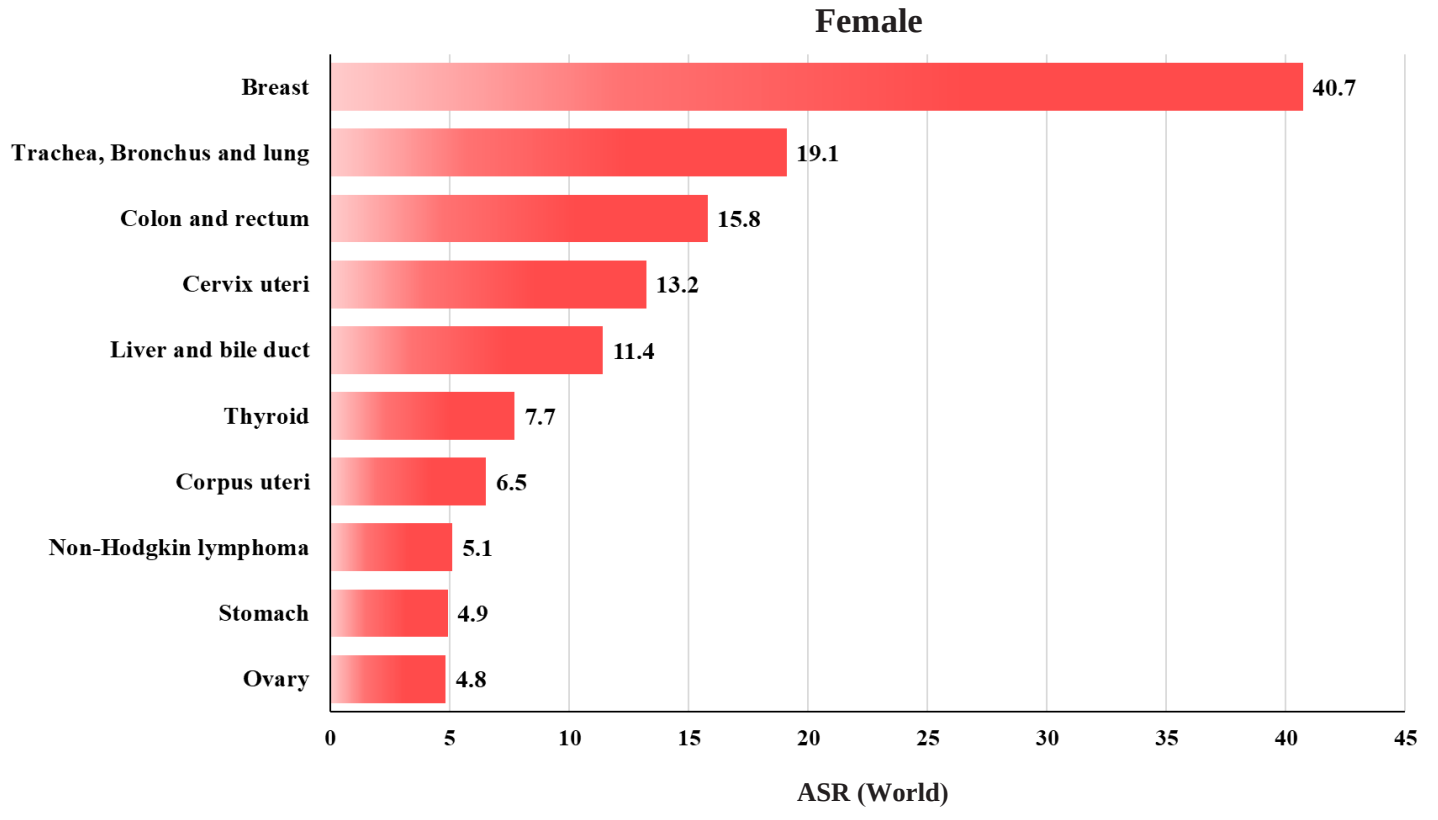


Table 3.1.1 Chiang Mai (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.9	1.3	1.6	0.2	0.1	C00	0.0	0.0
Tongue	28	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.6	3.7	4.6	3.2	9.6	11.3	9.5	9.3	6.2	3.6	2.3	C01-02	0.2	0.3
Mouth	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.5	2.6	3.2	4.3	11.3	6.1	8.0	3.9	2.4	1.5	C03-06	0.1	0.2
Salivary glands	7	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.6	1.5	0.0	2.1	0.5	2.5	1.7	4.0	0.8	0.8	0.6	C07-08	0.0	0.1
Tonsil	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.9	2.6	4.3	6.3	1.7	1.3	1.6	1.6	1.1	C09	0.1	0.1
Other oropharynx	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.3	2.6	1.6	1.3	0.0	4.0	2.3	0.8	0.5	C10	0.0	0.1
Nasopharynx	32	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.4	2.2	7.2	5.8	12.8	11.3	13.0	8.0	3.1	4.1	2.7	C11	0.2	0.3
Hypopharynx	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	3.9	0.0	4.8	9.4	0.9	4.0	7.8	2.0	1.2	C12-13	0.1	0.1
Pharynx unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.1	0.1	C14	0.0	0.0
Oesophagus	33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	4.6	5.8	10.6	11.3	16.5	13.3	9.3	4.1	2.4	C15	0.2	0.3
Stomach	75	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.2	5.2	7.2	12.7	19.7	28.9	30.4	30.5	27.2	9.4	5.7	C16	0.4	0.7
Small intestine	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.0	0.7	0.0	0.5	1.9	3.5	5.3	3.1	1.0	0.7	C17	0.0	0.1
Colon	170	0.0	0.0	1.6	0.5	1.6	1.0	2.0	6.4	10.4	11.1	23.8	31.9	55.9	85.9	63.7	92.4	21.5	12.6	C18	0.7	1.5
Rectum	139	0.0	0.0	0.0	0.0	0.8	2.4	1.3	4.0	4.5	13.1	18.5	35.7	44.0	81.5	65.1	47.4	17.5	10.4	C19-20	0.6	1.4
Anus	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	2.6	1.1	1.1	0.6	2.6	1.3	2.3	0.8	0.6	C21	0.0	0.1
Liver and bile duct	446	1.0	0.0	0.0	0.0	0.0	1.9	10.7	19.3	43.3	60.2	67.3	109.7	168.4	194.3	187.3	137.4	56.3	35.1	C22,C24	2.4	4.3
Gallbladder	14	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7	0.7	1.6	2.7	5.0	4.3	6.6	9.3	1.7	1.0	C23	0.1	0.1
Pancreas	42	0.0	0.0	0.0	0.0	0.0	0.0	2.7	3.2	3.7	3.3	3.2	9.6	11.9	18.2	26.6	19.4	5.3	3.3	C25	0.2	0.4
Nose, sinuses etc.	6	0.0	0.0	0.0	0.0	0.4	0.5	0.7	0.8	0.0	1.3	0.5	1.6	0.0	3.5	2.7	0.8	0.7	0.5	C30-31	0.0	0.1
Larynx	26	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	3.0	2.6	1.6	4.8	9.4	12.1	18.6	9.3	3.2	2.0	C32	0.1	0.3
Trachea, Bronchus and lung	430	0.0	0.0	0.0	0.0	1.2	0.5	2.7	5.6	7.5	22.2	35.0	68.7	139.5	228.1	278.9	264.8	54.3	30.2	C33-34	1.4	3.9
Other thoracic organs	5	0.0	0.0	0.0	0.0	0.0	1.0	1.3	0.8	0.0	1.3	0.5	0.5	1.3	1.7	2.7	0.8	0.7	0.5	C37-38	0.0	0.1
Bone	9	0.0	0.0	2.4	1.6	0.8	1.0	0.7	1.6	0.7	0.7	0.5	0.5	3.1	0.9	1.3	1.6	1.1	1.0	C40-C41	0.1	0.1
Melanoma of skin	8	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	2.1	1.1	1.9	3.5	4.0	5.4	1.0	0.6	C43	0.0	0.1
Other skin	66	0.0	0.0	0.0	0.0	2.1	1.4	2.0	4.8	4.5	3.9	6.9	4.8	17.6	26.9	25.2	53.6	8.3	4.8	C44	0.2	0.5
Mesothelioma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.3	0.0	0.0	0.0	0.1	0.1	C45	0.0	0.0
Kaposi's sarcoma	4	0.0	0.0	0.0	0.0	0.0	0.5	3.3	1.6	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	C46	0.0	0.0
Connective tissue	11	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.8	2.2	1.3	1.1	2.1	3.8	6.1	5.3	2.3	1.4	0.9	C47,C49	0.1	0.1
Breast	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.5	1.3	0.9	1.3	0.8	0.3	0.2	C50	0.0	0.0
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51	0.0	0.0
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52	0.0	0.0
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53	0.0	0.0
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54	0.0	0.0
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55	0.0	0.0
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56	0.0	0.0
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57	0.0	0.0
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58	0.0	0.0
Penis	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.7	2.0	3.2	3.2	1.9	2.6	4.0	4.7	1.4	0.9	C60	0.1	0.1
Prostate	149	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.1	9.1	42.1	85.9	122.2	128.9	18.8	9.8	C61	0.3	1.3
Testis	8	0.0	0.0	0.0	0.5	0.4	3.9	2.0	1.6	1.5	1.3	1.1	0.0	0.0	0.0	1.3	1.6	1.0	0.9	C62	0.1	0.1
Other male genital organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.9	0.0	0.8	0.1	0.1	C63	0.0	0.0
Kidney	32	3.1	0.0	0.0	0.0	0.0	1.0	0.7	0.8	0.7	4.6	6.4	4.3	12.6	10.4	18.6	11.6	4.0	2.8	C64	0.2	0.3
Renal pelvis	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.1	1.1	0.6	1.7	1.3	1.6	0.5	0.3	C65	0.0	0.0
Ureter	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	0.6	5.2	1.3	1.6	0.5	0.3	C66	0.0	0.0
Bladder	69	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	1.5	1.3	5.8	5.9	20.7	30.4	41.2	62.9	8.7	4.6	C67	0.2	0.5
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	C68	0.0	0.0
Eye	2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.6	0.2	0.3	C69	0.0	0.0
Brain, nervous system	22	2.0	1.9	1.6	0.5	0.8	1.0	1.3	2.4	3.7	8.5	2.1	2.1	4.4	6.1	6.6	4.7	2.8	2.5	C70-72	0.2	0.2
Thyroid	25	0.0	0.0	0.0	1.6	1.6	2.4	2.7	4.0	4.5	5.2	4.2	3.2	4.4	7.8	4.0	6.2	3.2	2.4	C73	0.2	0.2
Adrenal gland	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.3	0.5	0.0	2.5	0.9	1.3	0.0	0.4	0.3	C74	0.0	0.0
Other endocrine	2	0.0	0.0	0.8	0.0	0.4	0.0	0.0	0.0	0.0	0.7	0.5	0.0	0.0	0.0	0.0	0.8	0.2	0.2	C75	0.0	0.0
Hodgkin disease	5	0.0	1.0	0.0	0.5	0.4	0.0	0.7	0.8	0.7	0.7	1.1	1.1	1.3	1.7	0.0	0.0	0.6	0.5	C81	0.0	0.1
Non-Hodgkin lymphoma	90	1.0	1.9	2.4	3.3	1.2	3.9	4.7	7.2	11.9	11.1	10.6	16.0	23.9	35.6	45.2	27.2	11.4	8.0	C82-85,C96	0.5	0.9
Multiple myeloma	30	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.8	0.7	1.3	2.6	5.3	11.3	20.8	19.9	10.1	3.8	2.2	C90	0.1	0.3
Lymphoid leukemia	15	12.2	3.8	2.4	2.2	0.4	0.0	0.7	1.6	2.2	0.0	0.0	0.5	1.9	2.6	6.6	3.1	1.9	2.9	C91	0.1	0.2
Myeloid leukemia	37	5.1	1.9	2.4	2.2	0.8	1.4	3.3	2.4	6.0	5.2	3.7	6.9	7.5	9.5	13.3	11.6	4.7	4.0	C92-94	0.2	0.4
Leukemia unspecified	2	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.5	0.6	0.0	0.0	1.6	0.3	0.2	C95	0.0	0.0
Myelodysplastic disease	48	6.1	0.0	0.0	0.5	0.4	1.0	2.7	3.2	8.2	3.9	7.4	8.0	11.3	9.5	21.2	27.2	6.1	4.4	D45-D47	0.3	0.4
Other and unspecified	53	1.0	0.0	0.0	0.5	0.4	1.0	2.0	1.6	6.0	2.0	3.7	10.2	16.3	26.9	18.6	31.1	6.6	4.0	O&U	0.2	0.5
All sites	**2,237**	**33.6**	**10.6**	**14.5**	**14.1**	**14.0**	**27.0**	**56.0**	**94.1**	**154.5**	**215.2**	**259.1**	**422.8**	**725.3**	**1,013.9**	**1,106.2**	**1,053.6**	**282.2**	**174.6**	**ALL**	**10.2**	**20.8**

Table 3.1.2 Chiang Mai (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.6	0.8	1.2	0.6	0.2	0.1	C00	0.0	0.0
Tongue	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	1.4	1.7	2.3	2.8	2.8	6.4	1.2	1.9	1.4	0.9	C01-02	0.1	0.1
Mouth	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.4	0.0	1.8	0.9	2.2	2.4	5.8	5.6	1.2	0.7	C03-06	0.0	0.1
Salivary glands	9	0.0	0.0	0.0	0.6	0.4	0.0	2.1	1.7	2.1	0.0	0.9	2.3	2.8	1.6	0.0	1.9	1.1	0.8	C07-08	0.1	0.1
Tonsil	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.7	1.7	0.9	0.5	1.7	0.0	0.0	0.6	0.5	0.3	C09	0.0	0.0
Other oropharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C10	0.0	0.0
Nasopharynx	15	0.0	0.0	0.0	0.0	0.0	0.5	2.9	1.7	2.8	3.5	1.4	2.3	5.6	2.4	2.3	3.7	1.8	1.3	C11	0.1	0.1
Hypopharynx	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	C12-13	0.0	0.0
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C14	0.0	0.0
Oesophagus	7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.7	1.7	0.0	1.4	1.7	0.8	2.3	3.1	0.8	0.5	C15	0.0	0.1
Stomach	66	0.0	0.0	0.0	0.0	2.0	2.9	9.9	3.5	10.4	9.6	8.8	20.2	18.5	23.1	23.0	7.9	4.9	C16	0.3	0.5
Small intestine	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.6	4.8	3.5	1.2	0.6	0.3	C17	0.0	0.1
Colon	144	0.0	0.0	0.0	0.6	0.0	1.5	3.6	8.3	7.6	13.8	16.1	20.0	46.7	61.2	54.4	58.3	17.2	9.7	C18	0.6	1.2
Rectum	86	0.0	0.0	0.0	0.0	1.2	2.0	2.1	2.5	3.5	8.7	13.8	17.2	24.2	37.9	31.2	25.4	10.3	5.9	C19-20	0.4	0.7
Anus	3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7	0.0	0.0	0.0	1.1	1.6	1.2	1.2	0.4	0.2	C21	0.0	0.0
Liver and bile duct	177	1.1	0.0	0.0	0.0	0.4	0.5	1.4	5.0	6.9	19.0	13.3	29.8	56.2	62.0	78.7	86.2	21.1	11.4	C22,C24	0.7	1.4
Gallbladder	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.4	0.6	1.4	3.3	5.6	8.1	5.8	11.2	2.3	1.2	C23	0.1	0.1
Pancreas	39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.1	2.3	3.7	7.5	7.9	18.5	10.4	23.6	4.6	2.3	C25	0.1	0.3
Nose, sinuses etc.	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	1.2	0.5	0.9	0.6	0.8	0.0	2.5	0.6	0.4	C30-31	0.0	0.0
Larynx	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.6	2.4	4.6	1.2	0.5	0.2	C32	0.0	0.0
Trachea, Bronchus and lung	308	0.0	0.0	0.8	0.0	0.4	1.5	0.7	5.0	10.4	14.4	27.1	44.7	84.9	120.9	184.0	158.8	36.7	19.1	C33-34	0.9	2.5
Other thoracic organs	4	0.0	0.0	0.0	0.0	0.0	1.0	0.7	0.8	0.7	0.0	0.9	0.9	1.1	0.0	1.2	0.6	0.5	0.4	C37-38	0.0	0.0
Bone	7	1.1	1.0	1.7	1.1	0.4	1.0	0.7	0.0	1.4	1.2	0.0	0.5	3.4	0.0	1.2	0.0	0.9	1.0	C40-C41	0.1	0.1
Melanoma of skin	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.9	0.5	3.4	0.0	1.2	4.3	0.8	0.4	C43	0.0	0.0
Other skin	65	0.0	0.0	0.0	0.0	0.8	1.0	1.4	0.8	2.1	2.3	4.1	5.6	13.5	19.3	17.4	59.6	7.7	3.6	C44	0.2	0.3
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	C45	0.0	0.0
Kaposi's sarcoma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C46	0.0	0.0
Connective tissue	11	2.1	1.0	0.0	0.0	0.4	0.0	0.0	0.8	1.4	1.2	1.8	3.7	1.7	3.2	0.0	2.5	1.3	1.0	C47,C49	0.1	0.1
Breast	520	0.0	0.0	0.0	0.0	1.2	8.3	18.5	57.0	87.3	101.0	107.8	108.5	145.6	147.5	128.5	76.9	62.1	40.7	C50	3.2	4.6
Vulva	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.5	0.5	3.4	4.8	2.3	3.1	0.9	0.5	C51	0.0	0.1
Vagina	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.6	0.0	0.0	2.5	0.2	0.1	C52	0.0	0.0
Cervix uteri	158	0.0	0.0	0.0	0.0	0.8	5.4	22.1	29.8	27.7	28.9	27.1	35.4	36.0	29.8	32.4	24.8	18.8	13.2	C53	1.1	1.4
Corpus uteri	89	0.0	0.0	0.0	0.0	0.0	1.5	4.3	5.0	6.2	12.1	14.7	25.6	32.0	32.2	26.6	9.3	10.6	6.5	C54	0.5	0.8
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55	0.0	0.0
Ovary	56	0.0	1.0	2.5	2.2	2.4	2.9	0.0	3.3	10.4	10.4	7.8	12.6	12.4	16.1	18.5	6.2	6.7	4.8	C56	0.3	0.5
Other female genital organs	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.2	0.9	0.9	3.4	5.6	2.3	0.6	0.9	0.6	C57	0.0	0.1
Placenta	1	0.0	0.0	0.0	0.0	0.4	0.5	0.7	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C58	0.0	0.0
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60	0.0	0.0
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61	0.0	0.0
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62	0.0	0.0
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63	0.0	0.0
Kidney	14	1.1	0.0	0.0	0.0	0.4	0.0	0.7	0.0	1.4	1.7	2.8	3.7	3.4	3.2	2.3	5.0	1.7	1.1	C64	0.1	0.1
Renal pelvis	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.9	0.2	0.1	C65	0.0	0.0
Ureter	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	2.4	1.2	4.3	0.5	0.2	C66	0.0	0.0
Bladder	25	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.8	0.0	0.6	0.9	2.8	6.7	11.3	16.2	14.3	2.9	1.5	C67	0.1	0.2
Other urinary organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.1	0.0	C68	0.0	0.0
Eye	2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	1.2	0.2	0.3	C69	0.0	0.0
Brain, nervous system	27	1.1	1.0	0.8	0.6	0.0	1.0	2.9	5.0	6.2	3.5	2.3	2.8	5.6	7.3	8.1	7.4	3.2	2.5	C70-72	0.2	0.2
Thyroid	82	1.1	0.0	0.8	2.2	3.2	5.9	20.0	17.4	14.6	15.0	9.6	14.0	17.4	13.7	11.6	9.3	9.8	7.7	C73	0.6	0.7
Adrenal gland	2	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.9	0.0	0.6	0.0	1.2	0.0	0.2	0.2	C74	0.0	0.0
Other endocrine	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.1	0.0	C75	0.0	0.0
Hodgkin disease	5	0.0	1.0	0.8	0.0	0.0	1.0	1.4	0.0	0.0	0.0	0.5	1.4	0.0	1.6	3.5	0.6	0.6	0.5	C81	0.0	0.1
Non-Hodgkin lymphoma	70	0.0	0.0	0.8	0.6	0.8	0.5	3.6	3.3	6.9	10.4	8.7	13.5	19.7	24.2	23.1	21.1	8.3	5.1	C82-85,C96	0.3	0.6
Multiple myeloma	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.8	3.7	10.1	8.9	10.4	9.3	2.7	1.4	C90	0.1	0.2
Lymphoid leukemia	9	6.4	4.9	0.0	0.6	0.4	0.0	0.0	0.0	2.1	0.0	0.9	1.9	1.7	0.0	0.0	1.2	1.1	1.7	C91	0.1	0.1
Myeloid leukemia	27	0.0	1.0	0.8	1.7	1.2	0.5	2.9	6.6	2.1	1.7	3.7	4.7	6.7	8.1	2.3	8.1	3.3	2.3	C92-94	0.2	0.2
Leukemia unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.5	0.0	0.0	1.2	0.0	0.1	0.1	C95	0.0	0.0
Myelodysplastic disease	54	4.3	1.0	0.8	0.0	0.0	1.0	1.4	4.1	4.9	6.3	6.0	5.6	8.4	20.1	25.5	26.7	6.5	4.3	D45-D47	0.2	0.4
Other and unspecified	55	1.1	0.0	0.0	0.6	0.4	0.5	2.1	4.2	2.1	2.3	3.7	12.6	15.8	22.6	20.8	22.9	6.6	3.8	O&U	0.2	0.4
All sites	**2,255**	**21.4**	**12.7**	**10.1**	**10.5**	**15.4**	**39.5**	**101.3**	**181.0**	**229.4**	**281.0**	**303.2**	**408.9**	**619.4**	**734.9**	**770.8**	**733.9**	**269.0**	**166.1**	**ALL**	**11.2**	**18.7**

Table 3.1.3 Mean annual incidence, Chiang Mai, 2019-2021

Site	Male						Female						ICD-10
	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	
Lip	2	0.1	0.2	0.1	0.0	0.0	2	0.1	0.2	0.1	0.0	0.0	C00
Tongue	28	1.3	3.6	2.3	0.2	0.3	12	0.5	1.4	0.9	0.1	0.1	C01-02
Mouth	19	0.9	2.4	1.5	0.1	0.2	10	0.4	1.2	0.7	0.0	0.1	C03-06
Salivary glands	7	0.3	0.8	0.6	0.0	0.1	9	0.4	1.1	0.8	0.1	0.1	C07-08
Tonsil	13	0.6	1.6	1.1	0.1	0.1	4	0.2	0.5	0.3	0.0	0.0	C09
Other oropharynx	6	0.3	0.8	0.5	0.0	0.1	1	0.0	0.1	0.1	0.0	0.0	C10
Nasopharynx	32	1.4	4.1	2.7	0.2	0.3	15	0.7	1.8	1.3	0.1	0.1	C11
Hypopharynx	16	0.7	2.0	1.2	0.1	0.1	0	0.0	0.0	0.0	0.0	0.0	C12-13
Pharynx unspecified	1	0.0	0.1	0.1	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	C14
Oesophagus	33	1.5	4.1	2.4	0.2	0.3	7	0.3	0.8	0.5	0.0	0.1	C15
Stomach	75	3.3	9.4	5.7	0.4	0.7	66	2.9	7.9	4.9	0.3	0.5	C16
Small intestine	8	0.4	1.0	0.7	0.0	0.1	5	0.2	0.6	0.3	0.0	0.1	C17
Colon	170	7.6	21.5	12.6	0.7	1.5	144	6.4	17.2	9.7	0.6	1.2	C18
Rectum	139	6.2	17.5	10.4	0.6	1.4	86	3.8	10.3	5.9	0.4	0.7	C19-20
Anus	6	0.3	0.8	0.6	0.0	0.1	3	0.1	0.4	0.2	0.0	0.0	C21
Liver and bile duct	446	19.9	56.3	35.1	2.4	4.3	177	7.8	21.1	11.4	0.7	1.4	C22,C24
Gallbladder	14	0.6	1.7	1.0	0.1	0.1	19	0.8	2.3	1.2	0.1	0.1	C23
Pancreas	42	1.9	5.3	3.3	0.2	0.4	39	1.7	4.6	2.3	0.1	0.3	C25
Nose, sinuses etc.	6	0.3	0.7	0.5	0.0	0.1	5	0.2	0.6	0.4	0.0	0.0	C30-31
Larynx	26	1.1	3.2	2.0	0.1	0.3	4	0.2	0.5	0.2	0.0	0.0	C32
Trachea, Bronchus and lung	430	19.2	54.3	30.2	1.4	3.9	308	13.6	36.7	19.1	0.9	2.5	C33-34
Other thoracic organs	5	0.2	0.7	0.5	0.0	0.1	4	0.2	0.5	0.4	0.0	0.0	C37-38
Bone	9	0.4	1.1	1.0	0.1	0.1	7	0.3	0.9	1.0	0.1	0.1	C40-C41
Melanoma of skin	8	0.4	1.0	0.6	0.0	0.1	6	0.3	0.8	0.4	0.0	0.0	C43
Other skin	66	3.0	8.3	4.8	0.2	0.5	65	2.9	7.7	3.6	0.2	0.3	C44
Mesothelioma	1	0.0	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	4	0.2	0.5	0.5	0.0	0.0	1	0.0	0.1	0.1	0.0	0.0	C46
Connective tissue	11	0.5	1.4	0.9	0.1	0.1	11	0.5	1.3	1.0	0.1	0.1	C47,C49
Breast	2	0.1	0.3	0.2	0.0	0.0	520	23.1	62.1	40.7	3.2	4.6	C50
Vulva							8	0.3	0.9	0.5	0.0	0.1	C51
Vagina							2	0.1	0.2	0.1	0.0	0.0	C52
Cervix uteri							158	7.0	18.8	13.2	1.1	1.4	C53
Corpus uteri							89	3.9	10.6	6.5	0.5	0.8	C54
Uterus unspecified							0	0.0	0.0	0.0	0.0	0.0	C55
Ovary							56	2.5	6.7	4.8	0.3	0.5	C56
Other female genital organs							8	0.3	0.9	0.6	0.0	0.1	C57
Placenta							1	0.1	0.2	0.2	0.0	0.0	C58
Penis	11	0.5	1.4	0.9	0.1	0.1							C60
Prostate	149	6.7	18.8	9.8	0.3	1.3							C61
Testis	8	0.4	1.0	0.9	0.1	0.1							C62
Other male genital organs	1	0.0	0.1	0.1	0.0	0.0							C63
Kidney	32	1.4	4.0	2.8	0.2	0.3	14	0.6	1.7	1.1	0.1	0.1	C64
Renal pelvis	4	0.2	0.5	0.3	0.0	0.0	2	0.1	0.2	0.1	0.0	0.0	C65
Ureter	4	0.2	0.5	0.3	0.0	0.0	4	0.2	0.5	0.2	0.0	0.0	C66
Bladder	69	3.1	8.7	4.6	0.2	0.5	25	1.1	2.9	1.5	0.1	0.2	C67
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.1	0.0	0.0	0.0	C68
Eye	2	0.1	0.2	0.3	0.0	0.0	2	0.1	0.2	0.3	0.0	0.0	C69
Brain, nervous system	22	1.0	2.8	2.5	0.2	0.2	27	1.2	3.2	2.5	0.2	0.2	C70-72
Thyroid	25	1.1	3.2	2.4	0.2	0.2	82	3.6	9.8	7.7	0.6	0.7	C73
Adrenal gland	3	0.1	0.4	0.3	0.0	0.0	2	0.1	0.2	0.2	0.0	0.0	C74
Other endocrine	2	0.1	0.2	0.2	0.0	0.0	1	0.0	0.1	0.0	0.0	0.0	C75
Hodgkin disease	5	0.2	0.6	0.5	0.0	0.1	5	0.2	0.6	0.5	0.0	0.1	C81
Non-Hodgkin lymphoma	90	4.0	11.4	8.0	0.5	0.9	70	3.1	8.3	5.1	0.3	0.6	C82-85,C96
Multiple myeloma	30	1.3	3.8	2.2	0.1	0.3	22	1.0	2.7	1.4	0.1	0.2	C90
Lymphoid leukemia	15	0.7	1.9	2.9	0.1	0.2	9	0.4	1.1	1.7	0.1	0.1	C91
Myeloid leukemia	37	1.7	4.7	4.0	0.2	0.4	27	1.2	3.3	2.3	0.2	0.2	C92-94
Leukemia unspecified	2	0.1	0.3	0.2	0.0	0.0	1	0.0	0.1	0.1	0.0	0.0	C95
Myelodysplastic disease	48	2.1	6.1	4.4	0.3	0.4	54	2.4	6.5	4.3	0.2	0.4	D45-D47
Other and unspecified	53	2.4	6.6	4.0	0.2	0.5	55	2.4	6.6	3.8	0.2	0.4	O&U
All sites	**2,237**	**100.0**	**282.2**	**174.6**	**10.2**	**20.8**	**2,255**	**100.0**	**269.0**	**166.1**	**11.2**	**18.7**	**ALL**

Table 3.1.4 Percentage of morphologically verified and death certificate only cases, Chiang Mai

Site	Male			Female			ICD-10
	Cases 3 Year	%MV	%DCO	Cases 3 Year	%MV	%DCO	
Oral cavity	168	98.2	0.0	98	98.0	2.0	C00-C08
Oropharynx	60	98.3	1.7	14	92.9	0.0	C09-C10,C14
Nasopharynx	97	91.8	0.0	46	87.0	2.2	C11
Hypopharynx	47	97.9	0.0	1	100.0	0.0	C12-C13
Esophagus	98	91.8	2.0	20	80.0	5.0	C15
Stomach	224	94.6	0.4	199	92.0	2.0	C16
Small intestine	24	83.3	4.2	16	93.8	0.0	C17
Colon and rectum	946	94.8	0.7	699	94.0	1.1	C18-C21
Liver and bile duct	1,338	27.3	3.4	531	30.5	4.1	C22,C24
Gallbladder	41	43.9	4.9	57	57.9	1.8	C23
pancrease	127	56.7	2.4	116	44.0	3.4	C25
Nose,sinuses etc	17	100.0	0.0	14	85.7	0.0	C30-C31
Larynx	77	96.1	1.3	12	83.3	0.0	C32
Trachea, bronchus and lung	1,290	57.9	1.6	923	62.2	1.0	C33-C34
Other thoracic organs	16	100.0	0.0	13	100.0	0.0	C37-C38
Bone	26	84.6	3.8	22	100.0	0.0	C40-C41
Melanoma of skin	24	100.0	0.0	19	100.0	0.0	C43
Other skin	198	99.5	0.0	194	99.5	0.0	C44
Mesothelioma	3	100.0	0.0	1	100.0	0.0	C45
Kaposi sarcoma	11	100.0	0.0	2	100.0	0.0	C46
Connective and soft tissue	33	97.0	0.0	32	93.8	0.0	C47,C49
Breast	7	100.0	0.0	1,561	98.3	0.6	C50
Vulva				23	100.0	0.0	C51
Vagina				6	100.0	0.0	C52
Cervix uteri				474	96.8	0.8	C53
Corpus uteri				267	98.9	0.0	C54
Uterus unspecified				1	100.0	0.0	C55
Ovary				169	87.6	0.6	C56
Other female genital organs				23	100.0	0.0	C57
Placenta				4	25.0	0.0	C58
Penis	33	100.0	0.0	0			C60
Prostate	447	91.1	0.4	0			C61
Testis	24	95.8	0.0	0			C62
Other male genital organs	3	100.0	0.0	0			C63
Kidney	96	81.3	1.0	42	76.2	0.0	C64
Renal pelvis	11	81.8	0.0	5	80.0	0.0	C65
Ureter	13	92.3	0.0	13	69.2	0.0	C66
Bladder	208	86.5	1.9	74	82.4	1.4	C67
Other urinary organs	1	100.0	0.0	2	100.0	0.0	C68
Eye	5	100.0	0.0	6	100.0	0.0	C69
Brain, nervous system	67	64.2	6.0	80	62.5	0.0	C70-C72
Thyroid	76	98.7	0.0	246	98.4	0.0	C73
Adrenal gland	10	100.0	0.0	6	66.7	0.0	C74
Other endocrine	5	100.0	0.0	2	100.0	0.0	C75
Hodgkin disease	15	100.0	0.0	16	100.0	0.0	C81
Non-Hodgkin lymphoma	270	100.0	0.0	209	100.0	0.0	C82-C85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	90	100.0	0.0	67	100.0	0.0	C90
Leukemia	163	100.0	0.0	112	100.0	0.0	C91-C95
Myelodysplastic	144	100.0	0.0	163	100.0	0.0	D45-D47
Other and unspecified	158	64.0	8.7	151	64.9	6.6	O&U
All sites	**6,711**	**72.2**	**1.6**	**6,765**	**84.1**	**1.1**	**All**
All sites without liver	**5,373**	**83.4**	**1.2**	**6,220**	**88.7**	**0.9**	**All**

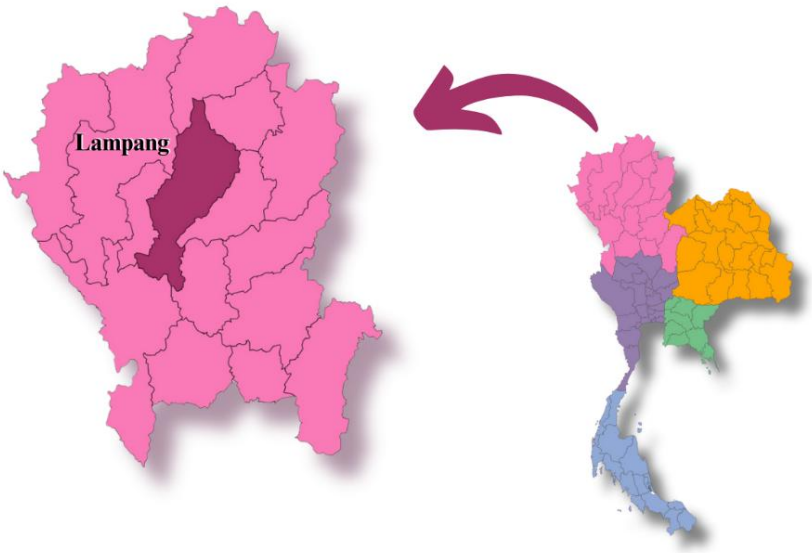
3.2 Lampang Cancer Registry

Registration area

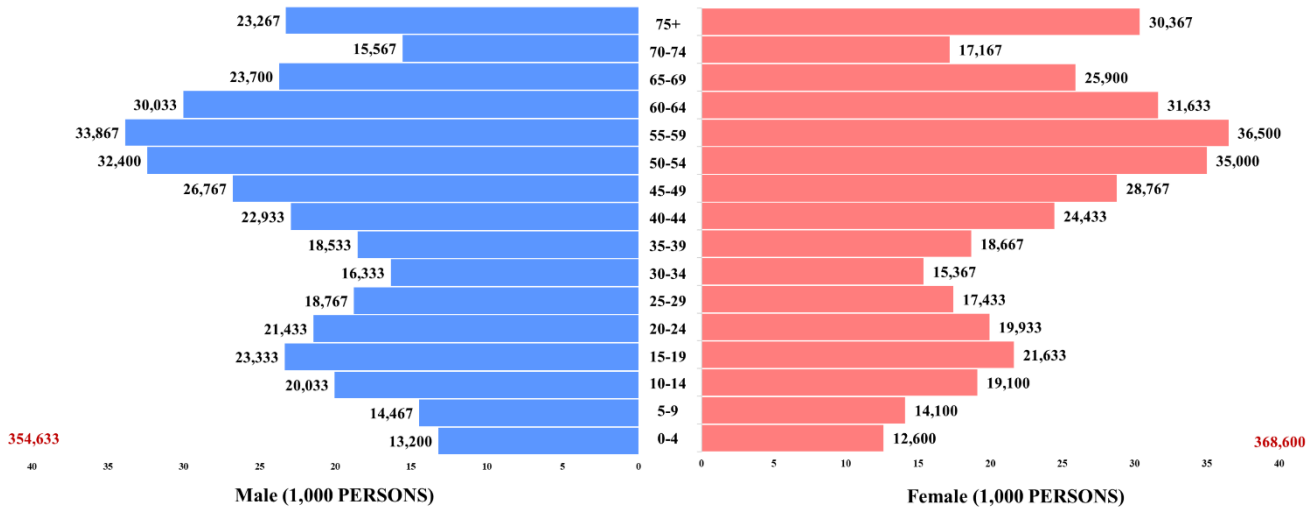
Lampang is one of the 17 provinces of the Northern region of Thailand, located at latitude 17-19 ^{o}N and longitude 98-100 ^{o}E. It is 268.8 meters above sea level with a land area of 12,534 km^2. It has common boundary with Chiang Mai and Phayao in the north, Phare in the east, Tak and Sukhothai in the south and Lamphun and Chiang Mai in the west. Lampang cancer registry covers the population of 13 districts.

The total population in 2000 (housing census by National Statistics Office, Thailand) was 782,152, with 390,256 males and 391, 896 females. About 30% of the populations live in urban areas; 97% are Buddists, the remainder being mainly Christians or Muslims. The average population density is about 61.2 persons per square kilometer (National Statistics Office, Thailand, 2008).

Most important occupations are farming of rice, peanuts, sugar beans and pineapple. There are large lignite-generated power plants and lignite mining areas in the Moe Moh district, 36 kilometers from city area. In addition, there are more than 200 ceramic factories, over 100 wood working plants and large cement factories located in Lampang.



Population pyramid Lampang
estimated population in 2020 (2019 – 2021)



Cancer care facilities

In Lampang province, health care service is provided in 12 community hospitals, one Lampang provincial hospital, two private hospitals, one military hospital and one cancer hospital (Lampang Cancer Hospital). For cancer care, these hospitals have cancer diagnostic services (including CT scan, clinical consultations and radiological, pathological investigations), oncologic surgery services, chemotherapy and targeted therapy are available in Lampang cancer hospital and Lampang provincial hospital. Radiation therapy was available only in Lampang Cancer hospital. There were one simulators machine, one CT simulator, two dual energy LINAC with multi leaf collimator, one cobalt-60 teletherapy machines, two treatment planning system for 3D conformal radiation therapy and IMRT and one High Dose Rate machine for brachytherapy are provided in Lampang Cancer hospital. All hospitals in the province provide palliative care. However, some patients are referred to National Cancer Institute, university hospital in Chiang Mai and Bangkok. The ratio of doctors to population is 1:2,499. The ratio between registered nurses to population is 1:405. (Ministry of public Health, 2012)

Registry procedures

The registry unit is located within Lampang Cancer Hospital. The Lampang registry was established in 1995 with the backup data of cancer cases in Lampang since 1983 which collected by Dr. Nimit Martin. A part time physician, a full time nurse, five full time health workers responsible for the registry. The registration uses passive methods by notification from 21 sources of data consists of cancer centers, general hospitals, community hospitals, private hospitals, university hospital, the provincial public health service of Lampang and pathological laboratories.

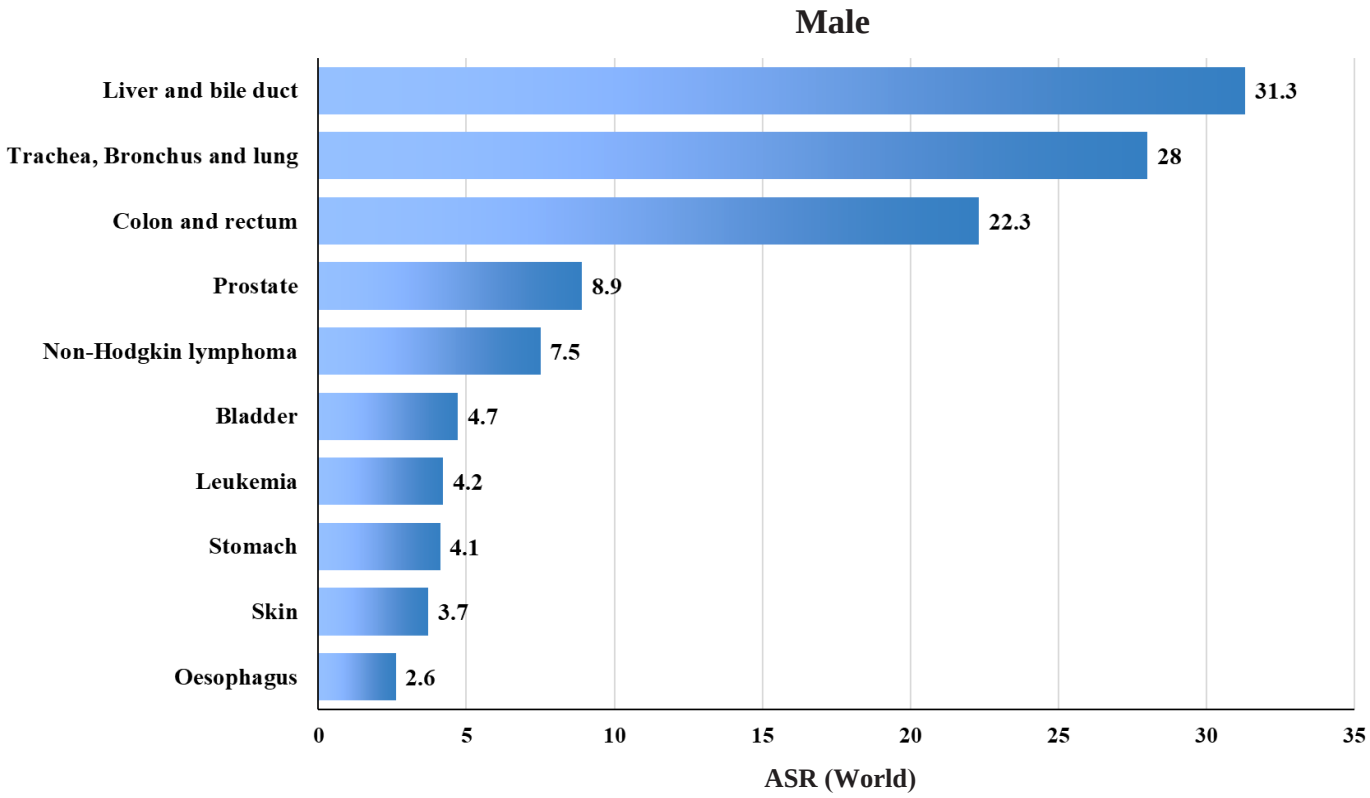
Data collection consists of: registry number, name, residential address, date of birth, age, sex, date of diagnosis, site of cancer, histology of cancer, staging, extension of disease, method of diagnosis, treatment, date of last contact and vital status of cancer patients. The primary site and histology were coded according to ICD-O 3rd edition (*Fritz et al*., 2013). Second primary cancer was also registered by multiple primary rule (IARC, 2004). Death certificates were obtained from Bureau of Policy and Strategy, Ministry of Public Health. The follow-up of all registered cases were carried out by passive methods with linking database of National Health Security office.

The computed data form was checked and extended into data base files, using the CanReg5 program for data entry and analysis.

Summary of Results

New cases registered in 2020, 1,055 were males and 1,026 were females, making 2,081 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 145.2 per 100,000, with liver and bile duct cancer ranking first (ASR = 31.3) followed by lung (ASR = 28.0) and colon and rectum (ASR = 22.3). The ASR of all cancer sites in females was 144.1 per 100,000, the three leading cancer sites being breast (ASR = 35.6), lung (ASR = 16.7) and colon and rectum (ASR = 15.1).

Figure 3.2.1 Leading cancer in Lampang (mean annual ASR 2019-2021)



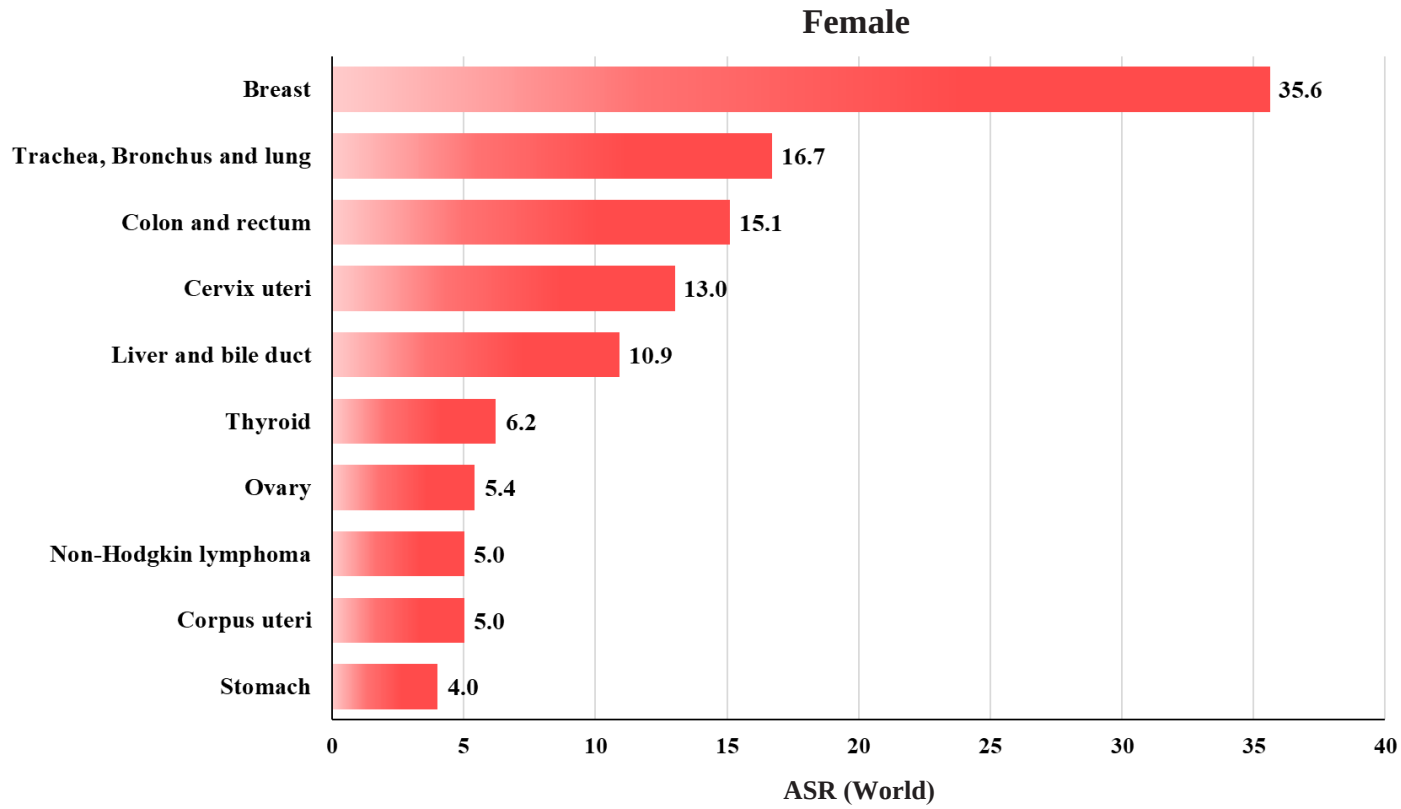


Table 3.2.1 Lampang (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	1.4	0.3	0.1	C00	0.0	0.0
Tongue	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	6.2	2.0	10.0	5.6	6.4	0.0	2.3	1.2	C01-02	0.1	0.2
Mouth	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	1.0	7.8	2.8	4.3	4.3	1.8	0.9	C03-06	0.1	0.1
Salivary glands	2	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	1.2	0.0	1.0	0.0	0.0	0.0	2.9	0.5	0.3	C07-08	0.0	0.0
Tonsil	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.2	3.1	1.0	4.4	2.8	0.0	0.0	1.1	0.6	C09	0.1	0.1
Other oropharynx	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.5	1.0	1.0	2.2	2.8	2.1	4.3	1.2	0.6	C10	0.0	0.1
Nasopharynx	11	0.0	0.0	0.0	0.0	1.6	3.6	0.0	1.8	4.4	5.0	7.2	5.9	2.2	1.4	10.7	2.9	3.2	2.1	C11	0.2	0.2
Hypopharynx	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	3.7	3.1	1.0	1.1	1.4	2.1	1.4	1.1	0.7	C12-13	0.1	0.1
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C14	0.0	0.0
Oesophagus	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.5	7.5	8.2	5.9	7.8	12.7	21.4	7.2	5.0	2.6	C15	0.2	0.3
Stomach	32	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.8	0.0	10.0	6.2	8.9	22.2	16.9	21.4	41.5	9.0	4.1	C16	0.3	0.4
Small intestine	2	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	2.0	1.1	1.4	0.0	2.9	0.7	0.4	C17	0.0	0.0
Colon	79	0.0	0.0	0.0	2.9	1.6	3.6	2.0	3.6	11.6	18.7	18.5	23.6	44.4	46.4	72.8	80.2	22.2	10.9	C18	0.7	1.2
Rectum	81	0.0	0.0	0.0	0.0	0.0	1.8	6.1	5.4	7.3	12.5	20.6	41.3	46.6	71.7	55.7	57.3	22.8	11.0	C19-20	0.7	1.3
Anus	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	2.0	1.1	1.4	0.0	8.6	1.0	0.4	C21	0.0	0.0
Liver and bile duct	223	2.5	0.0	0.0	1.4	0.0	3.6	2.0	27.0	20.3	54.8	79.2	114.2	143.2	142.1	149.9	141.8	63.0	31.3	C22,C24	2.2	3.7
Gallbladder	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.1	2.0	4.4	4.2	2.1	10.0	1.9	0.8	C23	0.0	0.1
Pancreas	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	5.1	4.9	12.2	15.5	25.7	11.5	5.2	2.4	C25	0.1	0.3
Nose, sinuses etc.	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	1.1	0.0	4.3	2.9	0.6	0.3	C30-31	0.0	0.0
Larynx	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	3.7	4.1	5.9	10.0	12.7	21.4	7.2	4.6	2.3	C32	0.1	0.3
Trachea, Bronchus and lung	227	0.0	2.3	0.0	0.0	0.0	1.8	6.1	7.2	5.8	18.7	27.8	54.1	122.1	195.5	282.7	272.2	64.0	28.0	C33-34	1.2	3.6
Other thoracic organs	2	0.0	0.0	1.7	1.4	0.0	1.8	0.0	0.0	0.0	0.0	1.0	1.0	0.0	1.4	0.0	1.4	0.7	0.6	C37-38	0.0	0.0
Bone	3	0.0	4.6	1.7	0.0	1.6	1.8	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	1.4	0.8	1.0	C40-C41	0.1	0.1
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.1	1.4	4.3	2.9	0.7	0.3	C43	0.0	0.0
Other skin	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	2.9	10.0	5.1	5.9	4.4	9.8	25.7	48.7	7.5	3.4	C44	0.2	0.3
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C45	0.0	0.0
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C46	0.0	0.0
Connective tissue	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	1.0	2.0	4.4	5.6	0.0	2.9	1.4	0.7	C47,C49	0.0	0.1
Breast	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.1	0.0	10.7	2.9	0.8	0.4	C50	0.0	0.1
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51	0.0	0.0
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52	0.0	0.0
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53	0.0	0.0
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54	0.0	0.0
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55	0.0	0.0
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56	0.0	0.0
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57	0.0	0.0
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58	0.0	0.0
Penis	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.2	1.0	2.0	4.4	1.4	10.7	5.7	1.8	0.8	C60	0.1	0.1
Prostate	78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	6.2	9.8	43.3	64.7	94.2	127.5	22.1	8.9	C61	0.3	1.1
Testis	2	0.0	0.0	1.7	0.0	0.0	1.8	2.0	1.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	C62	0.0	0.0
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.1	0.0	C63	0.0	0.0
Kidney	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.5	3.7	3.1	5.9	7.8	9.8	19.3	2.9	3.7	1.9	C64	0.1	0.3
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C65	0.0	0.0
Ureter	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.1	0.0	C66	0.0	0.0
Bladder	38	0.0	0.0	0.0	0.0	0.0	1.8	0.0	1.8	4.4	1.2	0.0	9.8	20.0	42.2	30.0	53.0	10.8	4.7	C67	0.2	0.6
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.1	0.0	C68	0.0	0.0
Eye	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.1	0.0	C69	0.0	0.0
Brain, nervous system	8	2.5	2.3	3.3	1.4	0.0	0.0	0.0	1.8	1.5	1.2	4.1	2.0	2.2	2.8	4.3	4.3	2.2	1.9	C70-72	0.1	0.1
Thyroid	5	0.0	0.0	0.0	0.0	0.0	1.8	2.0	5.4	1.5	0.0	0.0	3.0	1.1	1.4	2.1	4.3	1.4	1.0	C73	0.1	0.1
Adrenal gland	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	1.0	1.1	0.0	2.1	0.0	0.4	0.2	C74	0.0	0.0
Hodgkin disease	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.2	1.4	2.1	2.9	0.7	0.3	C81	0.0	0.0
Non-Hodgkin lymphoma	46	0.0	2.3	0.0	0.0	3.1	7.1	8.2	10.8	7.3	7.5	13.4	9.8	28.9	28.1	32.1	35.8	12.9	7.5	C82-85,C96	0.5	0.8
Multiple myeloma	8	0.0	0.0	0.0	0.0	1.6	0.0	0.0	1.8	1.5	0.0	0.0	2.0	5.5	11.3	6.4	2.9	2.2	1.1	C90	0.1	0.2
Lymphoid leukemia	6	2.5	2.3	0.0	1.4	1.6	3.6	4.1	0.0	0.0	0.0	0.0	1.0	3.3	1.4	4.3	2.9	1.6	1.7	C91	0.1	0.1
Myeloid leukemia	12	0.0	0.0	0.0	0.0	0.0	0.0	4.1	1.8	0.0	0.0	3.1	4.9	10.0	7.0	6.4	11.5	3.4	1.7	C92-94	0.1	0.2
Leukemia unspecified	5	0.0	0.0	1.7	0.0	1.6	0.0	0.0	0.0	0.0	0.0	2.1	0.0	1.1	0.0	12.8	4.3	1.3	0.8	C95	0.0	0.1
Myelodysplastic disease	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.2	0.0	0.0	1.1	4.2	6.4	4.3	1.1	0.5	D45-D47	0.0	0.1
Other and unspecified	27	0.0	0.0	0.0	0.0	0.0	5.4	6.1	5.4	1.5	2.5	7.2	9.9	13.3	11.2	19.3	32.9	7.6	4.0	O&U	0.3	0.4
All sites	**1,055**	**7.6**	**13.8**	**10.0**	**8.6**	**12.4**	**42.6**	**46.9**	**89.9**	**85.8**	**183.1**	**242.8**	**352.4**	**601.6**	**744.0**	**978.6**	**1,017.2**	**297.4**	**145.2**	**ALL**	**8.5**	**17.1**

Table 3.2.2 Lampang (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.1	0.0	0.0	1.1	0.3	0.1	C00	0.0	0.0
Tongue	6	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	3.5	0.0	0.9	2.1	6.4	0.0	5.5	1.5	0.8	C01-02	0.0	0.1
Mouth	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.0	2.7	4.2	0.0	11.7	6.6	1.9	0.8	C03-06	0.0	0.1
Salivary glands	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.9	0.0	1.3	1.9	1.1	0.5	0.2	C07-08	0.0	0.0
Tonsil	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.1	0.0	C09	0.0	0.0
Other oropharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.2	0.1	C10	0.0	0.0
Nasopharynx	6	0.0	0.0	0.0	0.0	0.0	0.0	2.2	3.6	2.7	4.6	1.0	1.8	0.0	5.1	0.0	3.3	1.7	1.1	C11	0.1	0.1
Hypopharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	1.1	0.2	0.1	C12-13	0.0	0.0
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.1	0.0	C14	0.0	0.0
Oesophagus	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.9	0.9	3.2	2.6	1.9	1.1	1.0	0.5	C15	0.0	0.1
Stomach	27	0.0	0.0	0.0	0.0	0.0	1.9	6.5	5.4	4.1	10.4	3.8	10.0	10.5	20.6	15.5	14.3	7.3	4.0	C16	0.3	0.4
Small intestine	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	2.7	3.2	2.6	1.9	3.3	1.2	0.5	C17	0.0	0.1
Colon	71	0.0	0.0	0.0	0.0	1.7	3.8	0.0	7.1	5.5	9.3	15.2	21.0	49.5	42.5	44.7	58.2	19.4	8.7	C18	0.6	1.0
Rectum	50	0.0	0.0	0.0	0.0	0.0	1.9	0.0	1.8	6.8	9.3	18.1	21.9	21.1	24.5	44.7	31.8	13.5	6.1	C19-20	0.4	0.8
Anus	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.0	0.0	1.1	1.3	1.9	1.1	0.5	0.3	C21	0.0	0.0
Liver and bile duct	94	0.0	0.0	0.0	0.0	0.0	1.9	0.0	5.4	5.5	13.9	14.3	24.7	64.3	54.1	89.3	77.9	25.5	10.9	C22,C24	0.7	1.4
Gallbladder	10	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	1.9	1.8	3.2	3.9	13.6	12.1	2.6	1.1	C23	0.0	0.1
Pancreas	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.9	5.5	9.5	14.2	21.4	16.5	5.0	1.9	C25	0.1	0.3
Nose, sinuses etc.	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.1	0.0	1.9	4.4	0.7	0.2	C30-31	0.0	0.0
Larynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.9	0.0	0.2	0.1	C32	0.0	0.0
Trachea, Bronchus and lung	147	0.0	0.0	0.0	0.0	0.0	1.9	4.3	10.7	15.0	19.7	20.0	27.4	65.3	91.4	151.5	154.8	39.8	16.7	C33-34	0.8	2.0
Other thoracic organs	1	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.9	1.1	0.0	0.0	0.0	0.3	0.2	C37-38	0.0	0.0
Bone	3	2.6	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0	0.0	1.0	0.9	2.1	1.3	0.0	1.1	0.9	1.0	C40-C41	0.1	0.1
Melanoma of skin	3	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.9	1.1	2.6	0.0	4.4	0.8	0.4	C43	0.0	0.0
Other skin	35	0.0	0.0	0.0	1.5	1.7	0.0	0.0	0.0	1.4	3.5	2.9	8.2	12.6	15.4	25.2	56.0	9.6	3.6	C44	0.2	0.4
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.1	0.0	C45	0.0	0.0
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46	0.0	0.0
Connective tissue	5	0.0	2.4	0.0	0.0	0.0	0.0	0.0	3.6	1.4	1.2	1.9	2.7	1.1	1.3	5.8	1.1	1.4	1.0	C47,C49	0.1	0.1
Breast	231	0.0	0.0	0.0	0.0	5.0	3.8	32.5	53.6	72.3	93.9	89.5	105.0	123.3	104.2	93.2	59.3	62.7	35.6	C50	2.9	3.9
Vulva	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.8	3.2	1.3	0.0	2.2	0.8	0.4	C51	0.0	0.0
Vagina	2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	2.3	0.0	0.0	2.1	0.0	3.9	0.0	0.6	0.4	C52	0.0	0.1
Cervix uteri	73	0.0	0.0	0.0	0.0	1.7	11.5	23.9	26.8	28.6	29.0	33.3	32.0	31.6	15.4	17.5	20.9	19.8	13.0	C53	1.1	1.3
Corpus uteri	35	0.0	0.0	0.0	0.0	0.0	0.0	10.8	1.8	2.7	5.8	17.1	16.4	27.4	23.2	11.7	7.7	9.6	5.0	C54	0.4	0.6
Uterus unspecified	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	2.3	1.0	0.0	2.1	0.0	0.0	0.0	0.5	0.4	C55	0.0	0.0
Ovary	36	0.0	0.0	1.7	3.1	1.7	1.9	0.0	7.1	4.1	11.6	14.3	19.2	16.9	27.0	9.7	9.9	9.9	5.4	C56	0.4	0.6
Other female genital organs	2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	1.0	0.0	3.2	1.3	0.0	0.0	0.5	0.3	C57	0.0	0.0
Placenta	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	C58	0.0	0.0
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60	0.0	0.0
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61	0.0	0.0
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62	0.0	0.0
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63	0.0	0.0
Kidney	8	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	1.4	1.2	2.9	3.7	2.1	6.4	3.9	5.5	2.3	1.2	C64	0.1	0.1
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.1	0.0	C65	0.0	0.0
Ureter	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.1	0.2	0.1	C66	0.0	0.0
Bladder	11	0.0	0.0	0.0	0.0	0.0	1.9	0.0	1.8	1.4	0.0	1.0	2.7	6.3	9.0	3.9	13.2	3.1	1.4	C67	0.1	0.1
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.1	0.0	C68	0.0	0.0
Eye	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.1	0.0	C69	0.0	0.0
Brain, nervous system	7	2.6	0.0	1.7	1.5	0.0	0.0	2.2	1.8	1.4	1.2	0.0	4.6	3.2	1.3	5.8	3.3	2.0	1.5	C70-72	0.1	0.1
Thyroid	27	0.0	0.0	0.0	1.5	8.4	13.4	13.0	16.1	8.2	9.3	9.5	7.3	11.6	3.9	5.8	5.5	7.4	6.2	C73	0.5	0.5
Adrenal gland	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.3	0.0	0.0	0.2	0.1	C74	0.0	0.0
Hodgkin disease	2	0.0	0.0	0.0	3.1	0.0	0.0	6.5	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.5	0.7	C81	0.1	0.1
Non-Hodgkin lymphoma	33	0.0	2.4	0.0	4.6	3.3	0.0	8.7	3.6	1.4	5.8	12.4	11.9	9.5	18.0	21.4	22.0	8.9	5.0	C82-85,C96	0.3	0.5
Multiple myeloma	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.9	1.8	3.2	5.1	3.9	2.2	1.4	0.6	C90	0.0	0.1
Lymphoid leukemia	2	2.6	0.0	1.7	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.6	1.9	0.0	0.6	0.8	C91	0.0	0.1
Myeloid leukemia	10	0.0	0.0	1.7	0.0	1.7	0.0	0.0	1.8	4.1	0.0	1.0	4.6	3.2	6.4	7.8	6.6	2.7	1.5	C92-94	0.1	0.2
Leukemia unspecified	3	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.9	4.4	0.7	0.3	C95	0.0	0.0
Myelodysplastic disease	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.9	0.0	0.0	7.8	4.4	1.0	0.4	D45-D47	0.0	0.1
Other and unspecified	22	0.0	0.0	0.0	0.0	1.7	1.9	0.0	1.8	5.5	4.6	6.7	3.7	11.6	15.5	17.5	14.3	6.0	3.0	O&U	0.2	0.4
All sites	**1,026**	**7.9**	**4.7**	**7.0**	**16.9**	**28.4**	**55.4**	**123.6**	**155.4**	**180.1**	**250.3**	**281.0**	**354.3**	**522.7**	**538.0**	**656.3**	**641.1**	**278.3**	**144.1**	**ALL**	**9.9**	**15.9**

Table 3.2.3 Mean annual incidence, Lampang, 2019-2021

Site	Male						Female						ICD-10
	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	
Lip	1	0.1	0.3	0.1	0.0	0.0	1	0.1	0.3	0.1	0.0	0.0	C00
Tongue	8	0.8	2.3	1.2	0.1	0.2	6	0.6	1.5	0.8	0.0	0.1	C01-02
Mouth	6	0.6	1.8	0.9	0.1	0.1	7	0.7	1.9	0.8	0.0	0.1	C03-06
Salivary glands	2	0.2	0.5	0.3	0.0	0.0	2	0.2	0.5	0.2	0.0	0.0	C07-08
Tonsil	4	0.4	1.1	0.6	0.1	0.1	0	0.0	0.1	0.0	0.0	0.0	C09
Other oropharynx	4	0.4	1.2	0.6	0.0	0.1	1	0.1	0.2	0.1	0.0	0.0	C10
Nasopharynx	11	1.1	3.2	2.1	0.2	0.2	6	0.6	1.7	1.1	0.1	0.1	C11
Hypopharynx	4	0.4	1.1	0.7	0.1	0.1	1	0.1	0.2	0.1	0.0	0.0	C12-13
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C14
Oesophagus	18	1.7	5.0	2.6	0.2	0.3	4	0.4	1.0	0.5	0.0	0.1	C15
Stomach	32	3.0	9.0	4.1	0.3	0.4	27	2.6	7.3	4.0	0.3	0.4	C16
Small intestine	2	0.2	0.7	0.4	0.0	0.0	4	0.4	1.2	0.5	0.0	0.1	C17
Colon	79	7.5	22.2	10.9	0.7	1.2	71	7.0	19.4	8.7	0.6	1.0	C18
Rectum	81	7.7	22.8	11.0	0.7	1.3	50	4.8	13.5	6.1	0.4	0.8	C19-20
Anus	4	0.3	1.0	0.4	0.0	0.0	2	0.2	0.5	0.3	0.0	0.0	C21
Liver and bile duct	223	21.2	63.0	31.3	2.2	3.7	94	9.2	25.5	10.9	0.7	1.4	C22,C24
Gallbladder	7	0.6	1.9	0.8	0.0	0.1	10	0.9	2.6	1.1	0.0	0.1	C23
Pancreas	18	1.7	5.2	2.4	0.1	0.3	18	1.8	5.0	1.9	0.1	0.3	C25
Nose, sinuses etc.	2	0.2	0.6	0.3	0.0	0.0	3	0.3	0.7	0.2	0.0	0.0	C30-31
Larynx	16	1.5	4.6	2.3	0.1	0.3	1	0.1	0.2	0.1	0.0	0.0	C32
Trachea, Bronchus and lung	227	21.5	64.0	28.0	1.2	3.6	147	14.3	39.8	16.7	0.8	2.0	C33-34
Other thoracic organs	2	0.2	0.7	0.6	0.0	0.0	1	0.1	0.3	0.2	0.0	0.0	C37-38
Bone	3	0.3	0.8	1.0	0.1	0.1	3	0.3	0.9	1.0	0.1	0.1	C40-C41
Melanoma of skin	2	0.2	0.7	0.3	0.0	0.0	3	0.3	0.8	0.4	0.0	0.0	C43
Other skin	27	2.5	7.5	3.4	0.2	0.3	35	3.4	9.6	3.6	0.2	0.4	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C45
Kaposi's sarcoma	0	0.0	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	5	0.5	1.4	0.7	0.0	0.1	5	0.5	1.4	1.0	0.1	0.1	C47,C49
Breast	3	0.3	0.8	0.4	0.0	0.1	231	22.5	62.7	35.6	2.9	3.9	C50
Vulva							3	0.3	0.8	0.4	0.0	0.0	C51
Vagina							2	0.2	0.6	0.4	0.0	0.1	C52
Cervix uteri							73	7.1	19.8	13.0	1.1	1.3	C53
Corpus uteri							35	3.4	9.6	5.0	0.4	0.6	C54
Uterus unspecified							2	0.2	0.5	0.4	0.0	0.0	C55
Ovary							36	3.5	9.9	5.4	0.4	0.6	C56
Other female genital organs							2	0.2	0.5	0.3	0.0	0.0	C57
Placenta							1	0.1	0.3	0.2	0.0	0.0	C58
Penis	6	0.6	1.8	0.8	0.1	0.1							C60
Prostate	78	7.4	22.1	8.9	0.3	1.1							C61
Testis	2	0.2	0.5	0.6	0.0	0.0							C62
Other male genital organs	0	0.0	0.1	0.0	0.0	0.0							C63
Kidney	13	1.2	3.7	1.9	0.1	0.3	8	0.8	2.3	1.2	0.1	0.1	C64
Renal pelvis	0	0.0	0.1	0.1	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C65
Ureter	0	0.0	0.1	0.0	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C66
Bladder	38	3.6	10.8	4.7	0.2	0.6	11	1.1	3.1	1.4	0.1	0.1	C67
Other urinary organs	0	0.0	0.1	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C68
Eye	0	0.0	0.1	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C69
Brain, nervous system	8	0.7	2.2	1.9	0.1	0.1	7	0.7	2.0	1.5	0.1	0.1	C70-72
Thyroid	5	0.5	1.4	1.0	0.1	0.1	27	2.7	7.4	6.2	0.5	0.5	C73
Adrenal gland	1	0.1	0.4	0.2	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C74
Hodgkin disease	2	0.2	0.7	0.3	0.0	0.0	2	0.2	0.5	0.7	0.1	0.1	C81
Non-Hodgkin lymphoma	46	4.3	12.9	7.5	0.5	0.8	33	3.2	8.9	5.0	0.3	0.5	C82-85,C96
Multiple myeloma	8	0.7	2.2	1.1	0.1	0.2	5	0.5	1.4	0.6	0.0	0.1	C90
Lymphoid leukemia	6	0.5	1.6	1.7	0.1	0.1	2	0.2	0.6	0.8	0.0	0.1	C91
Myeloid leukemia	12	1.1	3.4	1.7	0.1	0.2	10	1.0	2.7	1.5	0.1	0.2	C92-94
Leukemia unspecified	5	0.4	1.3	0.8	0.0	0.1	3	0.3	0.7	0.3	0.0	0.0	C95
Myelodysplastic disease	4	0.4	1.1	0.5	0.0	0.1	4	0.4	1.0	0.4	0.0	0.1	D45-D47
Other and unspecified	27	2.6	7.6	4.0	0.3	0.4	22	2.2	6.0	3.0	0.2	0.4	O&U
All sites	**1,055**	**100.0**	**297.4**	**145.2**	**8.5**	**17.1**	**1,026**	**100.0**	**278.3**	**144.1**	**9.9**	**15.9**	**ALL**

Table 3.2.4 Percentage of morphologically verified and death certificate only cases, Lampang

Site	Male			Female			ICD-10
	Cases 3 Year	%MV	%DCO	Cases 3 Year	%MV	%DCO	
Oral cavity	52	92.3	1.9	46	91.3	0.0	C00-C08
Oropharynx	25	92.0	0.0	4	100.0	0.0	C09-C10,C14
Nasopharynx	34	97.1	0.0	19	94.7	0.0	C11
Hypopharynx	12	100.0	0.0	2	100.0	0.0	C12-C13
Esophagus	53	86.8	3.8	11	54.5	9.1	C15
Stomach	96	83.3	6.3	81	90.1	6.2	C16
Small intestine	7	100.0	0.0	13	92.3	0.0	C17
Colon and rectum	490	92.9	2.0	369	92.4	1.4	C18-C21
Liver and bile duct	670	35.4	8.7	282	44.0	7.4	C22,C24
Gallbladder	20	65.0	5.0	29	62.1	3.4	C23
pancrease	55	52.7	10.9	55	36.4	9.1	C25
Nose,sinuses etc	6	100.0	0.0	8	100.0	0.0	C30-C31
Larynx	49	89.8	4.1	2	0.0	0.0	C32
Trachea, brochus and lung	681	65.5	5.7	440	64.5	6.8	C33-C34
Other thoracic organs	7	100.0	0.0	3	66.7	0.0	C37-C38
Bone	8	87.5	0.0	10	100.0	0.0	C40-C41
Melanoma of skin	7	100.0	0.0	9	100.0	0.0	C43
Other skin	80	97.5	0.0	106	100.0	0.0	C44
Mesothelioma	0	0.0	0.0	1	100.0	0.0	C45
Kaposi sarcoma	1	100.0	0.0	0	0.0	0.0	C46
Connective and soft tissue	15	80.0	0.0	16	93.8	0.0	C47,C49
Breast	9	100.0	0.0	693	97.5	0.1	C50
Vulva				9	100.0	0.0	C51
Vagina				7	100.0	0.0	C52
Cervix uteri				219	96.8	0.5	C53
Corpus uteri				106	99.1	0.0	C54
Uterus unspecified				6	100.0	0.0	C55
Ovary				109	90.8	2.8	C56
Other female genital organs				6	100.0	0.0	C57
Placenta				3	100.0	0.0	C58
Penis	19	100.0	0.0				C60
Prostate	235	93.2	2.6				C61
Testis	5	80.0	20.0				C62
Other male genital organs	1	100.0	0.0				C63
Kidney	39	82.1	10.3	25	92.0	8.0	C64
Renal pelvis	1	100.0	0.0	1	100.0	0.0	C65
Ureter	1	100.0	0.0	2	50.0	0.0	C66
Bladder	115	93.9	0.9	34	97.1	2.9	C67
Other urinary organs	1	0.0	0.0	1	100.0	0.0	C68
Eye	1	0.0	0.0	1	100.0	0.0	C69
Brain, nervous system	23	78.3	0.0	22	68.2	4.5	C70-C72
Thyroid	15	93.3	0.0	82	93.9	0.0	C73
Adrenal gland	4	75.0	0.0	2	50.0	0.0	C74
Other endocrine	0	0.0	0.0	0	0.0	0.0	C75
Hodgkin disease	7	100.0	0.0	6	100.0	0.0	C81
Non-Hodgkin lymphoma	137	100.0	0.0	98	100.0	0.0	C82-C85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	23	100.0	0.0	16	100.0	0.0	C90
Leukemia	67	100.0	0.0	45	100.0	0.0	C91-C95
Myelodysplastic	12	100.0	0.0	11	100.0	0.0	D45-D47
Other and unspecified	81	53.3	22.7	67	53.3	21.7	O&U
All sites	**3,164**	**72.9**	**4.9**	**3,077**	**83.8**	**2.9**	**All**
All sites without liver	**2,494**	**83.0**	**3.8**	**2,795**	**87.8**	**2.5**	**All**

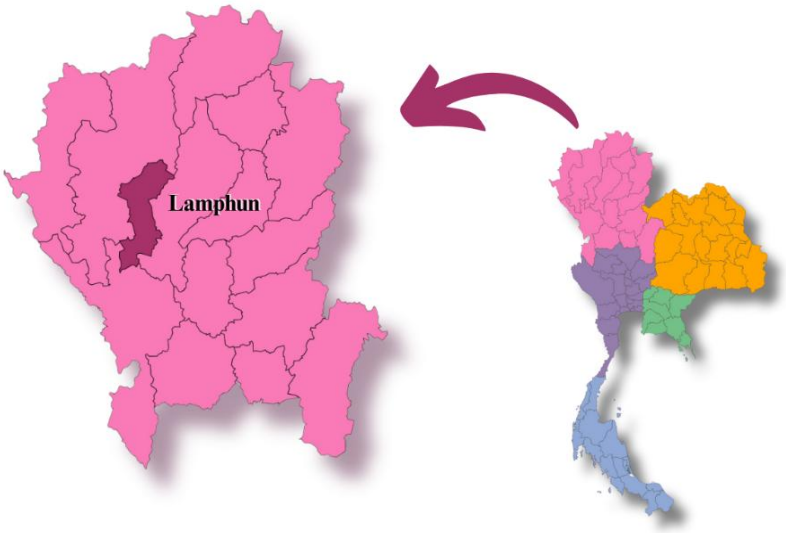
3.3 Lamphun Cancer Registry

Registration area

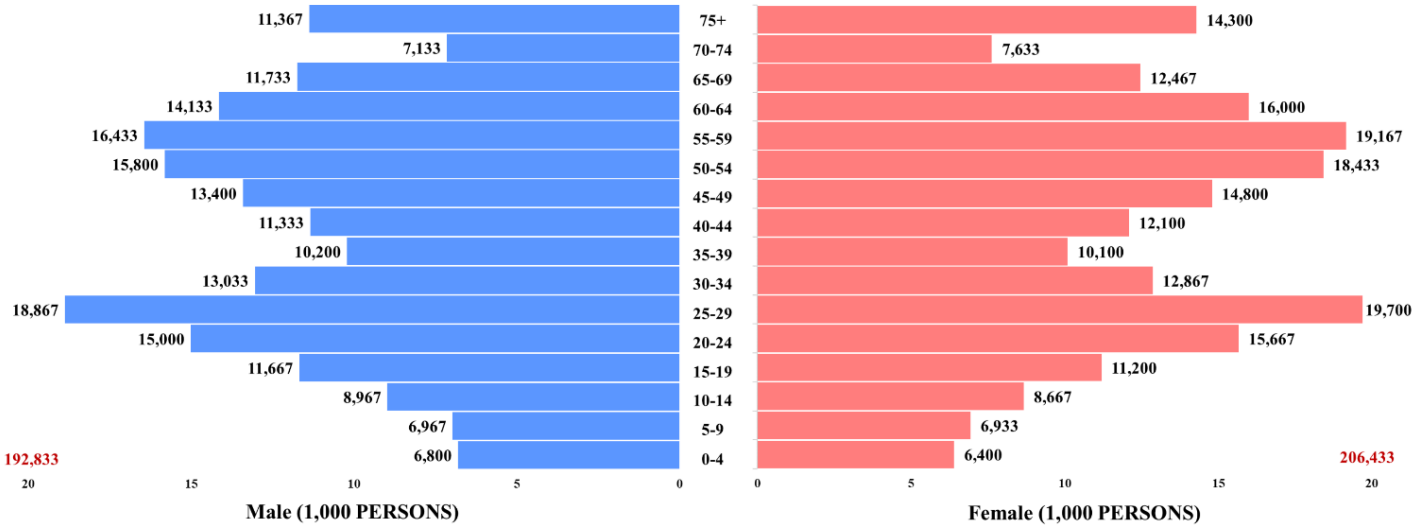
Lamphun is a small province among 17 provinces located in the northern region of Thailand, between 17.5°-18.5° N and 98°-99.3° E, It is 200-400 meters above sea level with land area of 4,505.08 square kilometers. It situated between Chiang Mai and Lampang. It has common boundary with Chiang Mai in the north and west and common boundary with Lampang in the east, Tak and Lampang in the south. Lamphun population based cancer registry covers the population of 8 districts.

The total population in 2010 (housing census by National Statistics Office, Thailand) was 412,741 with 201,351 males and 211,390 females. The average population density is about 89.8 persons per square kilometer (National Statistics Office, Thailand, 2012).

The most important occupations are farming of rice, garlic, longan and vegetables. Weaving, wood furniture, wood-carving and handicrafts are the main home industries. Industrial Estate Authority of Northern Thailand is situated in this province. In Lamphun province, there are 848 factories, 83 in the Industrial Estate Authority and 765out of the region (Lamphun Provincial Industrial Office, 2014).



Population pyramid Lamphun
estimated population in 2020 (2019 – 2021)



Cancer care facilities

The total number of hospitals in Lamphun province was 10 hospitals composed of 6 community hospitals, 3 private hospitals and 1 provincial hospital. Cancer diagnostic services: X- ray and ultrasound are available in Lamphun province. Cancer radiotherapy equipments and pathologist are not available, only cancer surgery can be performed in the province. Most of cancer patients were referred to Chiang Mai provincial hospital or to Chiang Mai University hospital which providing clinical consultations, radiological and pathological investigations for cancer diagnosis including cancer surgery services, radiotherapy and chemotherapy for cancer treatment. All hospitals in the province provide palliative care. The ratio of doctors to population is 1: 4,043. The ratio between registered nurses to population is 1:543 (Ministry of public Health, 2012).

Registry procedures

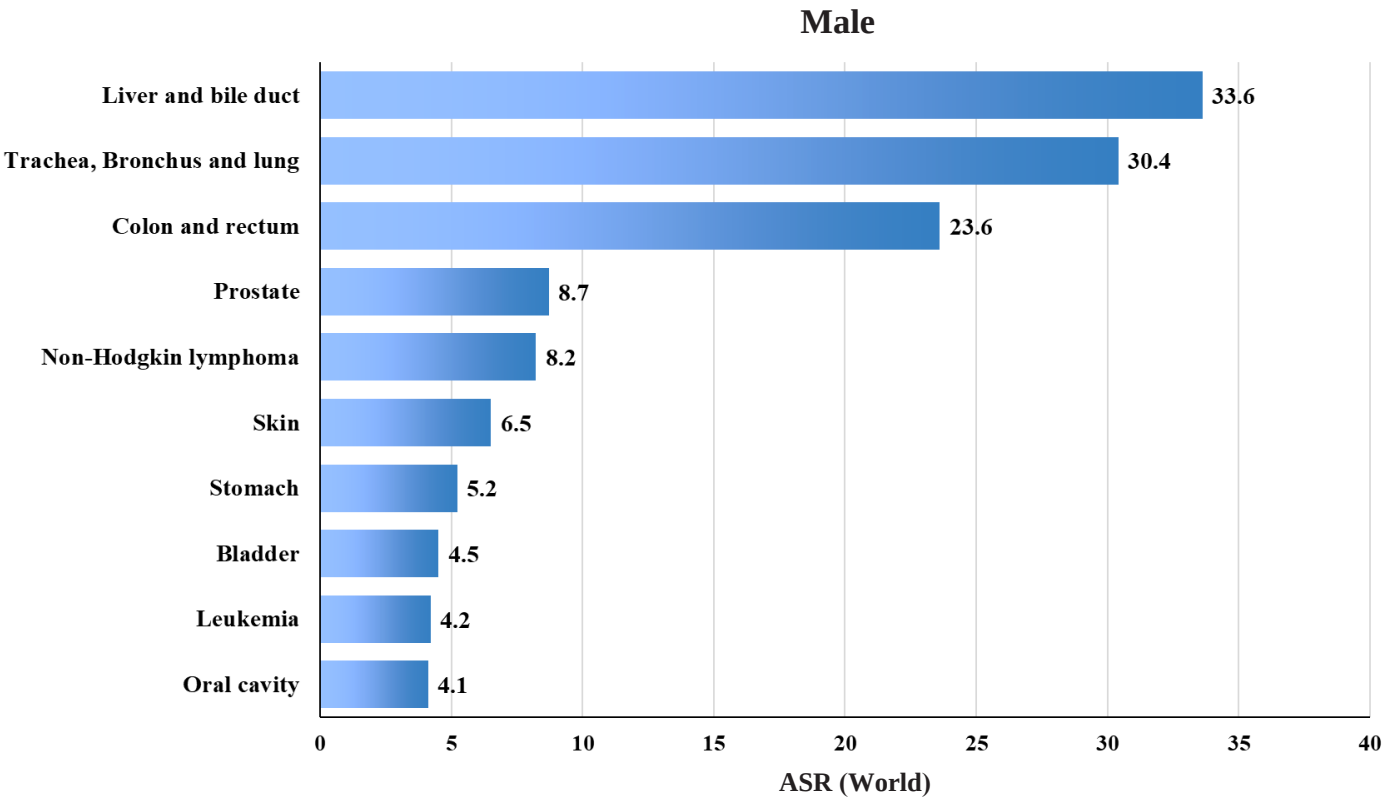
Population-based cancer registration of Lamphun province was established by Cancer Registry Unit of Lampang Cancer Hospital in 2004 with the back-up cancer data since 1983 to 1994 of all cancer cases in Lamphun province, which was collected by Dr. Nimit Martin, the expert consultant. All data on cancer patients were collected by passive methods involving notification by the staff of Lamphun provincial hospital, 3 private hospitals, 6 community hospitals under supervision of Lamphun Provincial Public Health Service and including data from Cancer Registry Unit of Maharaj Nakorn Chiang Mai University Hospital. New cancer cases were collected from out and in patient departments, radiotherapy unit, surgery unit, cytology unit, hematology unit, medical record, pathological unit and autopsy service. The data information collected includes demographic details for each cancer patient that consists of registry number, name, residential address, date of birth, age, sex, date of diagnosis, site of cancer, histology of cancer, staging, extension of disease, method of diagnosis, treatment, date of last contact and vital status of cancer patients. In addition, all death certificates are matched with the incidence case records of the registry which obtained from Bureau of Policy and Strategy, Ministry of Public Health. The follow-up of all registered cases were carried out by passive methods with linking database of National Health Security office.

The primary site and histology were coded according to ICD- O 3 first revision edition (*Fritz et al*., 2013). Second primary cancer was also registered; a new registration number was given for each new primary cancer (IARC, 2004). The completed data forms were checked manually and entered into the database file in a personal computer at Cancer Registry Unit of Lampang Cancer Hospital. CanReg5 software was using input, store, check and analyze cancer registry data. IARCcrgTools program was using validate data and quality control.

Summary of Results

New cases registered in 2020, 559 were males and 567 were females, making 1,126 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 161.0 per 100,000, with liver and bile duct cancer ranking first (ASR = 33.6) followed by lung (ASR = 30.4) and colon and rectum (ASR = 23.6). The ASR of all cancer sites in females was 157.0 per 100,000, the three leading cancer sites being breast (ASR = 36.6), lung (ASR = 17.4) and cervix (ASR = 14.9).

Figure 3.3.1 Leading cancer in Lamphun (mean annual ASR 2019-2021)



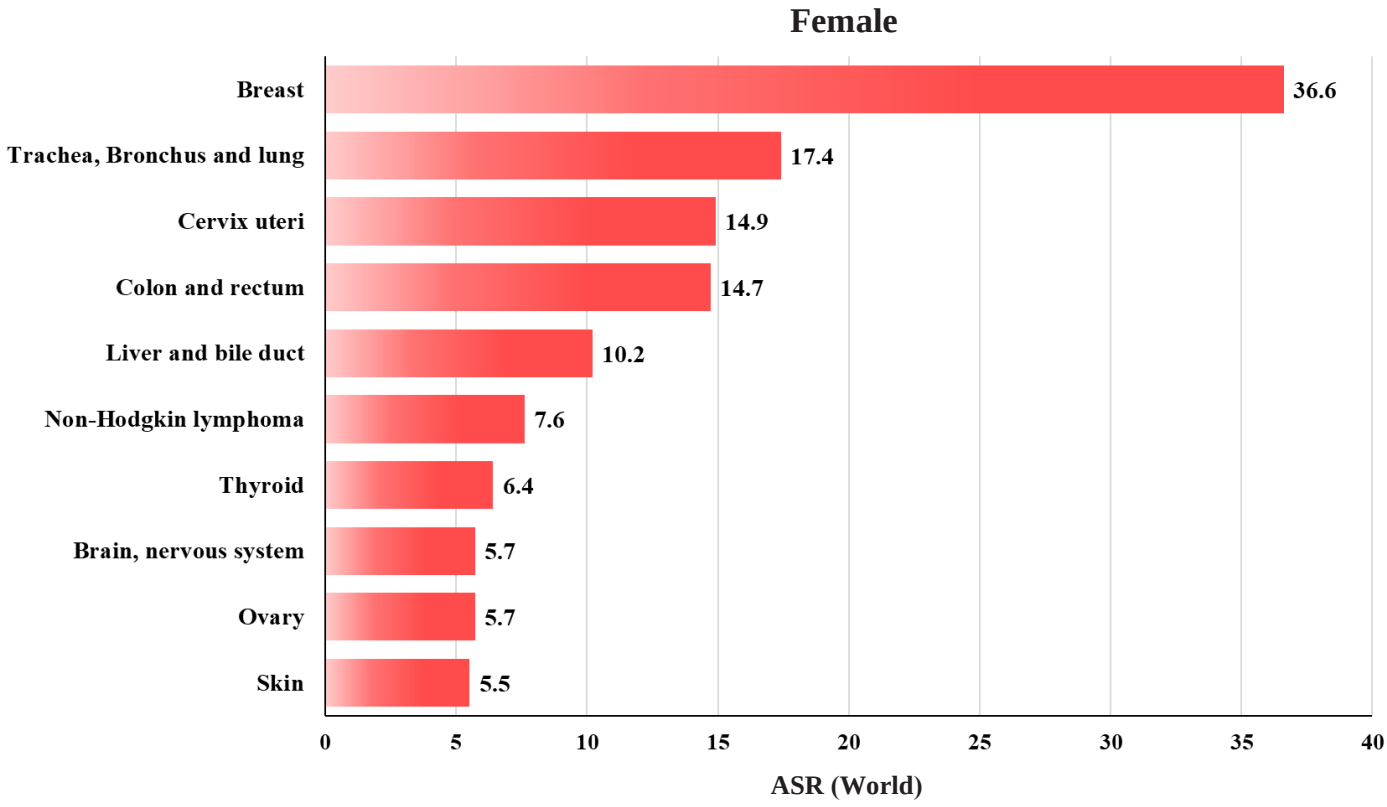


Table 3.3.1 Lamphun (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C00	0.0	0.0
Tongue	5	0.0	0.0	0.0	0.0	0.0	1.8	0.0	3.3	0.0	0.0	2.1	10.1	4.7	5.7	4.7	5.9	2.6	1.4	C01-02	0.1	0.2
Mouth	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	5.0	0.0	2.0	0.0	8.5	18.7	5.9	2.2	1.3	C03-06	0.1	0.2
Salivary glands	4	0.0	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	2.5	0.0	6.1	2.4	2.8	9.3	5.9	2.1	1.4	C07-08	0.1	0.1
Tonsil	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	6.3	2.0	4.7	0.0	9.3	0.0	1.6	0.9	C09	0.1	0.1
Other oropharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.1	0.0	0.0	0.0	0.0	0.0	0.3	0.3	C10	0.0	0.0
Nasopharynx	6	0.0	4.8	0.0	2.9	0.0	0.0	5.1	3.3	8.8	5.0	4.2	6.1	2.4	0.0	9.3	2.9	3.3	2.9	C11	0.2	0.3
Hypopharynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.7	0.0	0.0	5.9	1.0	0.5	C12-13	0.0	0.0
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C14	0.0	0.0
Oesophagus	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	12.4	12.7	6.1	9.4	5.7	14.0	14.7	5.0	2.9	C15	0.2	0.3
Stomach	18	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.3	5.9	5.0	8.4	16.2	16.5	34.1	46.7	23.5	9.5	5.2	C16	0.3	0.7
Small intestine	1	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.3	0.3	C17	0.0	0.0
Colon	41	0.0	0.0	0.0	2.9	2.2	1.8	0.0	6.5	2.9	17.4	14.8	38.5	68.4	76.7	65.4	38.1	21.1	11.6	C18	0.8	1.5
Rectum	42	0.0	0.0	0.0	0.0	0.0	0.0	2.6	13.1	8.8	17.4	16.9	32.5	47.2	59.7	79.4	85.0	21.8	11.6	C19-20	0.7	1.4
Anus	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.8	9.3	0.0	0.7	0.4	C21	0.0	0.1
Liver and bile duct	113	4.9	0.0	0.0	0.0	2.2	1.8	2.6	32.7	47.1	34.8	84.4	119.7	193.4	133.5	140.2	105.6	58.4	33.6	C22,C24	2.6	4.0
Gallbladder	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	2.4	0.0	4.7	17.6	1.6	0.7	C23	0.0	0.0
Pancreas	9	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	2.9	2.5	2.1	8.1	16.5	25.6	0.0	8.8	4.7	2.5	C25	0.2	0.3
Nose, sinuses etc.	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	2.9	2.5	0.0	0.0	0.0	0.0	4.7	2.9	0.9	0.7	C30-31	0.0	0.1
Larynx	5	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	2.9	5.0	0.0	6.1	7.1	8.5	4.7	5.9	2.8	1.6	C32	0.1	0.2
Trachea, Bronchus and lung	116	0.0	0.0	0.0	0.0	3.5	2.6	6.5	2.9	22.4	42.2	56.8	186.3	201.7	299.1	208.2	60.2	30.4	C33-34	1.6	4.1
Other thoracic organs	1	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	2.9	0.5	0.4	C37-38	0.0	0.0
Bone	2	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.8	0.0	8.8	1.0	0.7	C40-C41	0.0	0.0
Melanoma of skin	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.7	0.0	4.7	11.7	1.4	0.6	C43	0.0	0.1
Other skin	22	0.0	0.0	0.0	0.0	2.2	1.8	0.0	6.5	5.9	5.0	2.1	10.1	23.6	19.9	51.4	73.3	11.6	5.9	C44	0.3	0.6
Kaposi's sarcoma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.3	0.3	C46	0.0	0.0
Connective tissue	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	2.5	0.0	0.0	2.4	2.8	0.0	0.0	0.7	0.5	C47,C49	0.0	0.1
Breast	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	2.1	4.1	0.0	2.8	0.0	0.0	0.9	0.5	C50	0.0	0.1
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51	0.0	0.0
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52	0.0	0.0
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53	0.0	0.0
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54	0.0	0.0
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55	0.0	0.0
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56	0.0	0.0
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57	0.0	0.0
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58	0.0	0.0
Penis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	2.0	0.0	2.8	0.0	2.9	0.7	0.4	C60	0.0	0.0
Prostate	37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	10.1	40.1	45.5	126.2	134.9	19.4	8.7	C61	0.3	1.1
Testis	3	0.0	0.0	0.0	2.9	0.0	3.5	5.1	0.0	2.9	2.5	0.0	2.0	0.0	0.0	0.0	0.0	1.4	1.3	C62	0.1	0.1
Kidney	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.1	9.4	17.0	9.3	8.8	3.1	1.5	C64	0.1	0.2
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.2	0.1	C65	0.0	0.0
Ureter	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.3	0.2	C66	0.0	0.0
Bladder	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	14.2	23.6	11.4	51.4	67.4	9.9	4.5	C67	0.2	0.5
Eye	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	4.7	2.9	0.5	0.2	C69	0.0	0.0
Brain, nervous system	9	0.0	0.0	3.7	2.9	0.0	1.8	2.6	6.5	0.0	0.0	10.5	8.1	7.1	14.2	9.3	8.8	4.8	3.2	C70-72	0.2	0.3
Thyroid	5	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	2.9	5.0	2.1	4.1	4.7	2.8	9.3	5.9	2.4	1.5	C73	0.1	0.2
Adrenal gland	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	C74	0.0	0.0
Hodgkin disease	1	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.3	0.7	C81	0.0	0.0
Non-Hodgkin lymphoma	23	9.8	0.0	0.0	5.7	6.7	1.8	2.6	9.8	8.8	2.5	8.4	14.2	14.2	45.5	46.7	26.4	11.8	8.2	C82-85,C96	0.4	0.9
Multiple myeloma	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	2.1	6.1	2.4	2.8	18.7	5.9	2.4	1.3	C90	0.1	0.2
Lymphoid leukemia	2	4.9	0.0	0.0	0.0	0.0	1.8	2.6	0.0	0.0	0.0	0.0	6.1	2.4	0.0	0.0	0.0	1.2	1.2	C91	0.1	0.1
Myeloid leukemia	5	0.0	0.0	0.0	0.0	0.0	1.8	2.6	3.3	5.9	0.0	2.1	4.1	2.4	5.7	14.0	5.9	2.8	1.8	C92-94	0.1	0.2
Leukemia unspecified	4	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	7.1	0.0	14.0	8.8	1.9	1.2	C95	0.1	0.1
Myelodysplastic disease	4	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	2.0	7.1	5.7	9.3	5.9	1.9	1.0	D45-D47	0.1	0.1
Other and unspecified	16	0.0	0.0	0.0	0.0	0.0	1.8	2.6	9.8	5.8	5.0	12.7	12.2	14.2	31.2	28.0	14.7	8.5	5.0	O&U	0.3	0.6
All sites	**559**	**24.5**	**4.8**	**7.4**	**28.6**	**15.6**	**26.5**	**38.4**	**120.9**	**126.5**	**174.1**	**246.8**	**428.0**	**740.6**	**778.4**	**1,116.8**	**932.6**	**290.1**	**161.0**	**ALL**	**9.9**	**19.4**

Table 3.3.2 Lamphun (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.7	2.1	0.0	4.4	2.3	0.8	0.4	C00	0.0	0.1
Tongue	3	0.0	0.0	0.0	0.0	0.0	0.0	7.8	3.3	0.0	0.0	1.8	3.5	4.2	2.7	0.0	0.0	1.6	1.1	C01-02	0.1	0.1
Mouth	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	5.2	6.2	10.7	8.7	2.3	2.3	1.1	C03-06	0.1	0.2
Salivary glands	2	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	2.1	0.0	4.4	2.3	0.8	0.7	C07-08	0.0	0.1
Tonsil	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.2	0.1	C09	0.0	0.0
Other oropharynx	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C10	0.0	0.0
Nasopharynx	4	0.0	0.0	0.0	3.0	2.1	0.0	0.0	3.3	2.8	0.0	0.0	0.0	8.3	5.3	0.0	2.3	1.8	1.3	C11	0.1	0.1
Hypopharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	2.3	0.3	0.1	C12-13	0.0	0.0
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.2	0.0	C14	0.0	0.0
Oesophagus	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.2	0.0	4.4	11.7	1.5	0.6	C15	0.0	0.1
Stomach	14	0.0	0.0	0.0	0.0	0.0	0.0	5.2	3.3	8.3	4.5	3.6	12.2	14.6	13.4	17.5	18.6	6.6	3.6	C16	0.3	0.4
Small intestine	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	2.7	0.0	0.0	0.3	0.2	C17	0.0	0.0
Colon	32	0.0	0.0	0.0	0.0	0.0	0.0	2.6	6.6	8.3	11.3	7.2	17.4	47.9	45.5	56.8	42.0	15.5	8.0	C18	0.5	1.0
Rectum	24	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.3	2.8	11.3	9.0	20.9	35.4	34.8	39.3	18.6	11.6	6.1	C19-20	0.4	0.8
Anus	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.3	1.8	3.5	0.0	2.7	0.0	0.0	1.0	0.6	C21	0.1	0.1
Liver and bile duct	42	0.0	0.0	0.0	3.0	0.0	0.0	2.6	3.3	5.5	9.0	10.8	22.6	43.8	101.6	69.9	51.3	20.2	10.2	C22,C24	0.5	1.4
Gallbladder	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	10.4	2.7	13.1	4.7	1.9	0.9	C23	0.1	0.1
Pancreas	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	1.8	3.5	10.4	8.0	17.5	7.0	3.4	1.8	C25	0.1	0.2
Nose, sinuses etc.	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	4.4	0.0	0.5	0.3	C30-31	0.0	0.0
Larynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.1	0.0	4.4	0.0	0.5	0.2	C32	0.0	0.0
Trachea, Bronchus and lung	75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	16.5	18.0	23.5	36.5	79.2	112.3	144.1	144.5	36.3	17.4	C33-34	0.9	2.2
Other thoracic organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	5.3	4.4	0.0	0.6	0.3	C37-38	0.0	0.1
Bone	2	0.0	0.0	3.8	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.8	0.6	C40-C41	0.0	0.0
Melanoma of skin	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.8	1.7	2.1	5.3	4.4	4.7	1.5	0.7	C43	0.0	0.1
Other skin	23	0.0	0.0	0.0	3.0	2.1	0.0	2.6	3.3	0.0	0.0	3.6	8.7	10.4	24.1	21.8	93.2	11.3	4.8	C44	0.2	0.4
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C46	0.0	0.0
Connective tissue	4	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	4.5	5.4	0.0	0.0	8.0	4.4	2.3	1.8	1.1	C47,C49	0.1	0.1
Breast	124	0.0	0.0	0.0	0.0	0.0	3.4	20.7	49.5	82.6	99.1	83.2	113.0	135.4	117.6	117.9	62.9	60.2	36.6	C50	2.9	4.1
Vulva	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	4.2	2.7	0.0	0.0	0.8	0.4	C51	0.0	0.1
Vagina	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	2.3	0.3	0.1	C52	0.0	0.0
Cervix uteri	46	0.0	0.0	0.0	0.0	0.0	5.1	23.3	36.3	33.1	31.5	30.7	34.8	41.7	40.1	43.7	18.6	22.4	14.9	C53	1.2	1.6
Corpus uteri	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	4.5	18.1	26.1	27.1	26.7	21.8	9.3	9.7	4.9	C54	0.4	0.6
Uterus unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.7	0.0	0.0	0.0	2.3	0.5	0.2	C55	0.0	0.0
Ovary	18	0.0	0.0	0.0	6.0	2.1	6.8	0.0	6.6	5.5	15.8	16.3	17.4	12.5	10.7	13.1	9.3	8.7	5.7	C56	0.4	0.6
Other female genital organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	5.3	0.0	0.0	0.5	0.3	C57	0.0	0.0
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C58	0.0	0.0
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60	0.0	0.0
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61	0.0	0.0
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62	0.0	0.0
Kidney	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	1.8	0.0	4.2	2.7	4.4	9.3	1.6	0.8	C64	0.0	0.1
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.1	0.0	0.0	0.0	0.3	0.2	C65	0.0	0.0
Ureter	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	2.3	0.3	0.1	C66	0.0	0.0
Bladder	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	5.2	0.0	18.7	8.7	21.0	3.7	1.5	C67	0.0	0.2
Eye	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.7	0.0	2.7	0.0	0.0	0.5	0.2	C69	0.0	0.0
Brain, nervous system	12	5.2	14.4	0.0	6.0	2.1	1.7	5.2	6.6	2.8	6.8	3.6	7.0	4.2	16.0	17.5	2.3	5.7	5.7	C70-72	0.3	0.5
Thyroid	21	0.0	0.0	0.0	0.0	4.3	11.8	5.2	6.6	13.8	4.5	18.1	22.6	16.7	10.7	17.5	9.3	10.2	6.4	C73	0.5	0.7
Adrenal gland	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C74	0.0	0.0
Hodgkin disease	1	5.2	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	C81	0.0	0.0
Non-Hodgkin lymphoma	26	5.2	0.0	3.8	3.0	2.1	1.7	2.6	3.3	11.0	9.0	10.8	19.1	25.0	18.7	48.0	35.0	12.4	7.6	C82-85,C96	0.5	0.8
Multiple myeloma	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	4.2	2.7	4.4	0.0	0.8	0.4	C90	0.0	0.1
Lymphoid leukemia	1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.3	0.7	C91	0.0	0.0
Myeloid leukemia	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	2.8	0.0	1.8	1.7	6.2	10.7	4.4	7.0	2.6	1.5	C92-94	0.1	0.2
Leukemia unspecified	4	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	5.5	2.3	1.8	3.5	2.1	2.7	4.4	2.3	1.8	1.2	C95	0.1	0.1
Myelodysplastic disease	4	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	1.8	5.2	2.1	2.7	0.0	14.0	2.1	0.9	D45-D47	0.1	0.1
Other and unspecified	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	5.5	2.3	3.6	3.4	12.5	18.7	21.8	18.6	5.5	2.9	O&U	0.2	0.4
All sites	**567**	**20.8**	**14.4**	**15.4**	**23.8**	**19.1**	**32.1**	**85.5**	**158.4**	**212.1**	**250.0**	**287.5**	**410.4**	**585.4**	**695.2**	**755.5**	**645.7**	**274.8**	**157.0**	**ALL**	**10.6**	**17.8**

Table 3.3.3 Mean annual incidence, Lamphun, 2019-2021

Site	Male						Female						ICD-10
	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	
Lip	0	0.0	0.0	0.0	0.0	0.0	2	0.3	0.8	0.4	0.0	0.1	C00
Tongue	5	0.9	2.6	1.4	0.1	0.2	3	0.6	1.6	1.1	0.1	0.1	C01-02
Mouth	4	0.8	2.2	1.3	0.1	0.2	5	0.8	2.3	1.1	0.1	0.2	C03-06
Salivary glands	4	0.7	2.1	1.4	0.1	0.1	2	0.3	0.8	0.7	0.0	0.1	C07-08
Tonsil	3	0.5	1.6	0.9	0.1	0.1	0	0.1	0.2	0.1	0.0	0.0	C09
Other oropharynx	1	0.1	0.3	0.3	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C10
Nasopharynx	6	1.1	3.3	2.9	0.2	0.3	4	0.6	1.8	1.3	0.1	0.1	C11
Hypopharynx	2	0.4	1.0	0.5	0.0	0.0	1	0.1	0.3	0.1	0.0	0.0	C12-13
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0	0.1	0.2	0.0	0.0	0.0	C14
Oesophagus	10	1.7	5.0	2.9	0.2	0.3	3	0.5	1.5	0.6	0.0	0.1	C15
Stomach	18	3.3	9.5	5.2	0.3	0.7	14	2.4	6.6	3.6	0.3	0.4	C16
Small intestine	1	0.1	0.3	0.3	0.0	0.0	1	0.1	0.3	0.2	0.0	0.0	C17
Colon	41	7.3	21.1	11.6	0.8	1.5	32	5.6	15.5	8.0	0.5	1.0	C18
Rectum	42	7.5	21.8	11.6	0.7	1.4	24	4.2	11.6	6.1	0.4	0.8	C19-20
Anus	1	0.2	0.7	0.4	0.0	0.1	2	0.4	1.0	0.6	0.1	0.1	C21
Liver and bile duct	113	20.1	58.4	33.6	2.6	4.0	42	7.3	20.2	10.2	0.5	1.4	C22,C24
Gallbladder	3	0.5	1.6	0.7	0.0	0.0	4	0.7	1.9	0.9	0.1	0.1	C23
Pancreas	9	1.6	4.7	2.5	0.2	0.3	7	1.2	3.4	1.8	0.1	0.2	C25
Nose, sinuses etc.	2	0.3	0.9	0.7	0.0	0.1	1	0.2	0.5	0.3	0.0	0.0	C30-31
Larynx	5	1.0	2.8	1.6	0.1	0.2	1	0.2	0.5	0.2	0.0	0.0	C32
Trachea, Bronchus and lung	116	20.7	60.2	30.4	1.6	4.1	75	13.2	36.3	17.4	0.9	2.2	C33-34
Other thoracic organs	1	0.2	0.5	0.4	0.0	0.0	1	0.2	0.6	0.3	0.0	0.1	C37-38
Bone	2	0.4	1.0	0.7	0.0	0.0	2	0.3	0.8	0.6	0.0	0.0	C40-C41
Melanoma of skin	3	0.5	1.4	0.6	0.0	0.1	3	0.5	1.5	0.7	0.0	0.1	C43
Other skin	22	4.0	11.6	5.9	0.3	0.6	23	4.1	11.3	4.8	0.2	0.4	C44
Kaposi's sarcoma	1	0.1	0.3	0.3	0.0	0.0	0	0.1	0.2	0.2	0.0	0.0	C46
Connective tissue	1	0.2	0.7	0.5	0.0	0.1	4	0.6	1.8	1.1	0.1	0.1	C47,C49
Breast	2	0.3	0.9	0.5	0.0	0.1	124	21.9	60.2	36.6	2.9	4.1	C50
Vulva	0	0.0	0.0	0.0	0.0	0.0	2	0.3	0.8	0.4	0.0	0.1	C51
Vagina							1	0.1	0.3	0.1	0.0	0.0	C52
Cervix uteri							46	8.2	22.4	14.9	1.2	1.6	C53
Corpus uteri							20	3.5	9.7	4.9	0.4	0.6	C54
Uterus unspecified							1	0.2	0.5	0.2	0.0	0.0	C55
Ovary							18	3.2	8.7	5.7	0.4	0.6	C56
Other female genital organs							1	0.2	0.5	0.3	0.0	0.0	C57
Placenta							0	0.1	0.2	0.2	0.0	0.0	C58
Penis	1	0.2	0.7	0.4	0.0	0.0							C60
Prostate	37	6.7	19.4	8.7	0.3	1.1							C61
Testis	3	0.5	1.4	1.3	0.1	0.1							C62
Kidney	6	1.1	3.1	1.5	0.1	0.2	3	0.6	1.6	0.8	0.0	0.1	C64
Renal pelvis	0	0.1	0.2	0.1	0.0	0.0	1	0.1	0.3	0.2	0.0	0.0	C65
Ureter	1	0.1	0.3	0.2	0.0	0.0	1	0.1	0.3	0.1	0.0	0.0	C66
Bladder	19	3.4	9.9	4.5	0.2	0.5	8	1.4	3.7	1.5	0.0	0.2	C67
Eye	1	0.2	0.5	0.2	0.0	0.0	1	0.2	0.5	0.2	0.0	0.0	C69
Brain, nervous system	9	1.7	4.8	3.2	0.2	0.3	12	2.1	5.7	5.7	0.3	0.5	C70-72
Thyroid	5	0.8	2.4	1.5	0.1	0.2	21	3.7	10.2	6.4	0.5	0.7	C73
Adrenal gland	0	0.1	0.2	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C74
Hodgkin disease	1	0.1	0.3	0.7	0.0	0.0	1	0.1	0.3	1.0	0.0	0.0	C81
Non-Hodgkin lymphoma	23	4.1	11.8	8.2	0.4	0.9	26	4.5	12.4	7.6	0.5	0.8	C82-85,C96
Multiple myeloma	5	0.8	2.4	1.3	0.1	0.2	2	0.3	0.8	0.4	0.0	0.1	C90
Lymphoid leukemia	2	0.4	1.2	1.2	0.1	0.1	1	0.1	0.3	0.7	0.0	0.0	C91
Myeloid leukemia	5	1.0	2.8	1.8	0.1	0.2	5	0.9	2.6	1.5	0.1	0.2	C92-94
Leukemia unspecified	4	0.7	1.9	1.2	0.1	0.1	4	0.6	1.8	1.2	0.1	0.1	C95
Myelodysplastic disease	4	0.7	1.9	1.0	0.1	0.1	4	0.8	2.1	0.9	0.1	0.1	D45-D47
Other and unspecified	16	2.9	8.5	5.0	0.3	0.6	11	2.0	5.5	2.9	0.2	0.4	O&U
All sites	**559**	**100.0**	**290.1**	**161.0**	**9.9**	**19.4**	**567**	**100.0**	**274.8**	**157.0**	**10.6**	**17.8**	**ALL**

Table 3.3.4 Percentage of morphologically verified and death certificate only cases, Lamphun

Site	Male			Female			ICD-10
	Cases 3 Year	%MV	%DCO	Cases 3 Year	%MV	%DCO	
Oral cavity	40	97.5	0.0	34	97.1	2.9	C00-C08
Oropharynx	11	90.9	0.0	2	50.0	0.0	C09-C10,C14
Nasopharynx	19	89.5	0.0	11	81.8	0.0	C11
Hypopharynx	6	100.0	0.0	2	100.0	0.0	C12-C13
Esophagus	29	75.9	3.4	9	100.0	0.0	C15
Stomach	55	85.5	5.5	41	82.9	7.3	C16
Small intestine	2	100.0	0.0	2	100.0	0.0	C17
Colon and rectum	252	86.9	3.2	174	89.1	1.7	C18-C21
Liver and bile duct	338	17.2	10.1	125	20.8	6.4	C22,C24
Gallbladder	9	11.1	22.2	12	50.0	0.0	C23
pancrease	27	48.1	11.1	21	38.1	14.3	C25
Nose,sinuses etc	5	100.0	0.0	3	100.0	0.0	C30-C31
Larynx	16	87.5	6.3	3	100.0	0.0	C32
Trachea, bronchus and lung	348	50.3	11.5	225	52.4	7.1	C33-C34
Other thoracic organs	3	100.0	0.0	4	100.0	0.0	C37-C38
Bone	6	66.7	0.0	5	80.0	0.0	C40-C41
Melanoma of skin	8	100.0	0.0	9	100.0	0.0	C43
Other skin	67	95.5	1.5	70	98.6	1.4	C44
Mesothelioma	0	0.0	0.0	0	0.0	0.0	C45
Kaposi sarcoma	2	100.0	0.0	1	100.0	0.0	C46
Connective and soft tissue	4	100.0	0.0	11	81.8	18.2	C47,C49
Breast	5	100.0	0.0	373	94.6	0.5	C50
Vulva				5	100.0	0.0	C51
Vagina				2	100.0	0.0	C52
Cervix uteri				139	89.2	0.0	C53
Corpus uteri				60	93.3	0.0	C54
Uterus unspecified				3	66.7	33.3	C55
Ovary				54	72.2	0.0	C56
Other female genital organs				3	100.0	0.0	C57
Placenta				1	0.0	0.0	C58
Penis	4	100.0	0.0				C60
Prostate	112	83.9	1.8				C61
Testis	8	100.0	0.0				C62
Other male genital organs	0	0.0	0.0				C63
Kidney	18	77.8	0.0	10	50.0	20.0	C64
Renal pelvis	1	100.0	0.0	2	50.0	0.0	C65
Ureter	2	100.0	0.0	2	50.0	0.0	C66
Bladder	57	87.7	0.0	23	82.6	0.0	C67
Other urinary organs	0	0.0	0.0	0	0.0	0.0	C68
Eye	3	66.7	0.0	3	100.0	0.0	C69
Brain, nervous system	28	50.0	17.9	35	45.7	8.6	C70-C72
Thyroid	14	78.6	7.1	63	93.7	3.2	C73
Adrenal gland	1	0.0	100.0	0	0.0	0.0	C74
Other endocrine	0	0.0	0.0	0	0.0	0.0	C75
Hodgkin disease	2	100.0	0.0	2	100.0	0.0	C81
Non-Hodgkin lymphoma	68	100.0	0.0	77	100.0	0.0	C82-C85,C96
Immunoproliferative diseases	4	100.0	0.0	4	100.0	0.0	C88
Multiple myeloma	14	100.0	0.0	5	100.0	0.0	C90
Leukemia	34	100.0	0.0	29	100.0	0.0	C91-C95
Myelodysplastic	11	100.0	0.0	13	100.0	0.0	D45-D47
Other and unspecified	45	62.2	11.1	30	60.0	15.2	O&U
All sites	**1,678**	**64.3**	**6.4**	**1,702**	**78.8**	**3.1**	**All**
All sites without liver	**1,340**	**76.2**	**5.4**	**1,577**	**83.4**	**2.8**	**All**

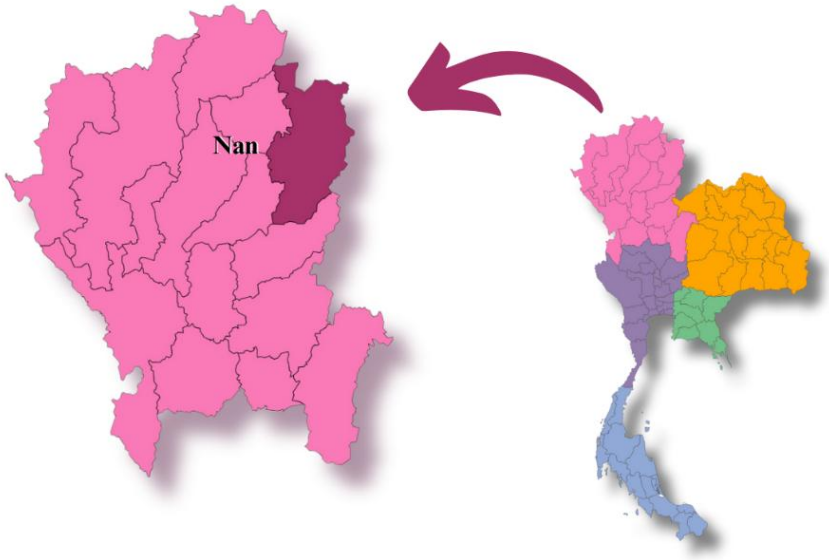
3.4 Nan Cancer Registry

Registration area

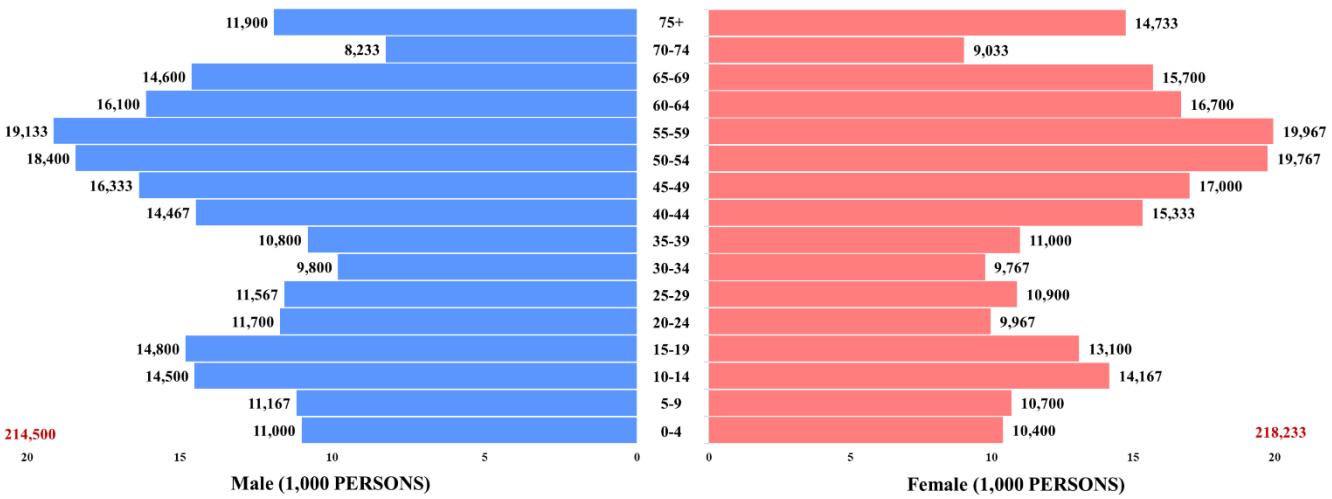
Nan is a small province among 17 provinces located in the northern region of Thailand, between 18.1°-19.3° N and 100.3°-101.5° E, It is 211 meters above sea level with land area of 11,472 square kilometers. It has common boundary with neighboring provinces are: Uttaradit, Phrae and Phayao. To the north and east it borders Sainyabuli of Laos. Nan population based cancer registry covers the population of 15 districts.

The total population in 2020 (National Statistics Office, Thailand) was 432,733 with 214,500 males and 218,233 females. The average population density is about 38.0 persons per square kilometer (National Statistics Office, Thailand, 2012).

The main occupations of the population in Nan are farming (rice, corn, fruits and vegetables), livestock farming, and handicrafts (especially textiles and local crafts). (Nan Provincial Industrial Office, 2022).



Population pyramid Nan
estimated population in 2020 (2019 – 2021)



Cancer care facilities

The total number of hospitals in Nan province was 15 hospitals composed of 14 community hospitals and 1 provincial hospital. Cancer diagnostic services: X-ray and ultrasound are available in Nan province. Cancer radiotherapy equipments and pathologist are not available, cancer surgery and Chemotherpy can be performed in the province. Most of cancer patients were referred to lampang Cancer Hospital or to Chiang Mai University hospital which providing specialist consultations for cancer diagnosis and radiotherapy. All hospitals in the province provide palliative care. The ratio of doctors to population is 1:1,745. The ratio between registered nurses to population is 1:387 (Ministry of public Health, 2022).

Registry procedures

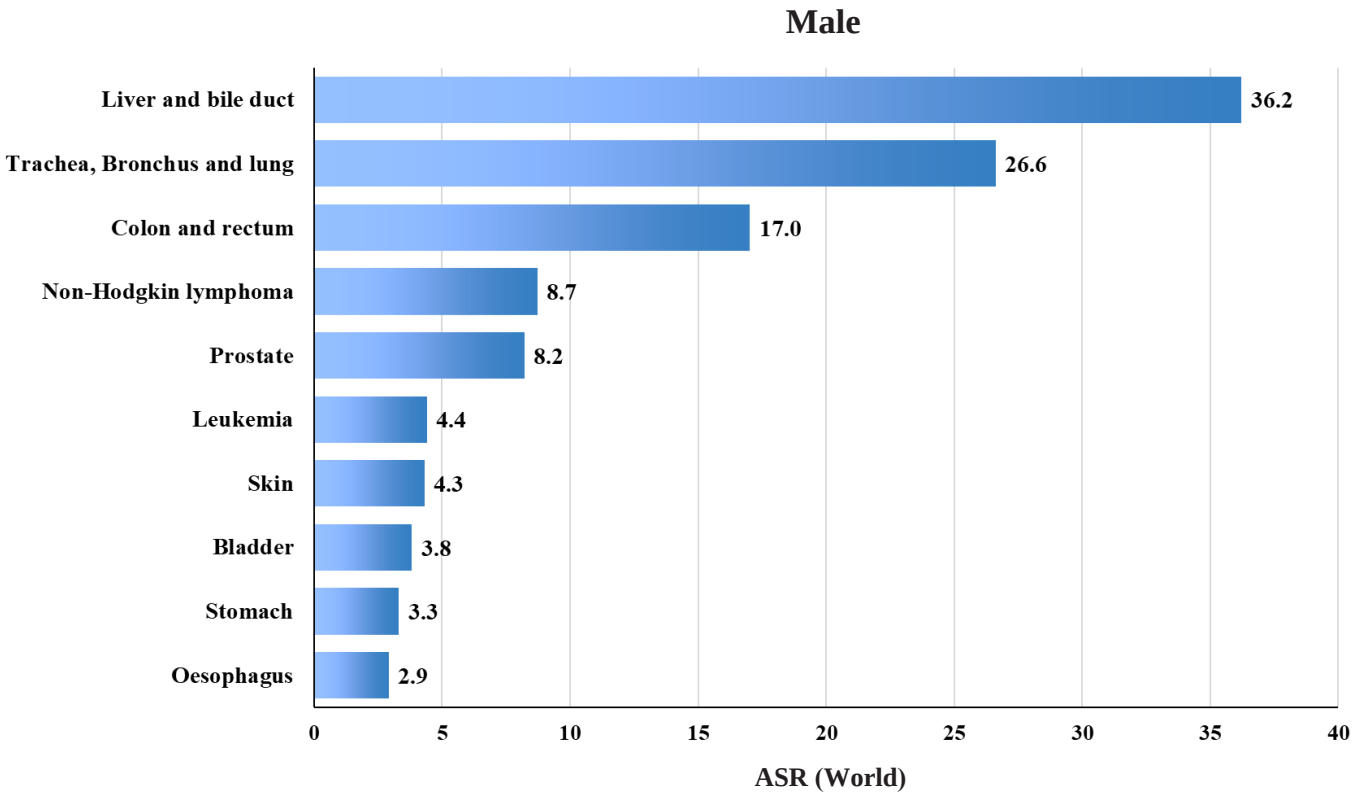
Population-based cancer registration of Nan province was established by Cancer Registry Unit of Lampang Cancer Hospital in 2011. All data on cancer patients were collected by passive methods involving notification by the staff of Nan provincial hospital, 14 community hospitals under supervision of Nan Provincial Public Health Service and including data from Cancer Registry Unit of Lampang Cancer Hospital and Maharaj Nakorn Chiang Mai University Hospital. New cancer cases were collected from out and in patient departments, radiotherapy unit, surgery unit, chemotherapy unit, medical record. The data information collected includes demographic details for each cancer patient that consists of registry number, name, residential address, date of birth, age, sex, date of diagnosis, site of cancer, histology of cancer, staging, extension of disease, method of diagnosis, treatment, date of last contact and vital status of cancer patients. In addition, all death certificates are matched with the incidence case records of the registry which obtained from Bureau of Policy and Strategy, Ministry of Public Health. The follow-up of all registered cases were carried out by passive methods with linking database of National Health Security office.

The primary site and histology were coded according to ICD-O 3 first revision edition (*Fritz et al.*, 2013). Second primary cancer was also registered; a new registration number was given for each new primary cancer (IARC, 2004). The completed data forms were checked manually and entered into the database file in a personal computer at Cancer Registry Unit of Lampang Cancer Hospital. CanReg5 software was using input, store, check and analyze cancer registry data. IARCTools program was using validate data and quality control.

Summary of Results

New cases registered in 2020, 588 were males and 603 were females, making 1,191 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 145.7 per 100,000, with liver and bile duct cancer ranking first (ASR = 36.2) followed by lung (ASR = 26.6) and colon and rectum (ASR = 17.0). The ASR of all cancer sites in females was 147.5 per 100,000, the three leading cancer sites being breast (ASR = 34.5), lung (ASR = 17.0) Liver and bile duct (ASR = 14.7).

Figure 3.4.1 Leading cancer in Nan (mean annual ASR 2019-2021)



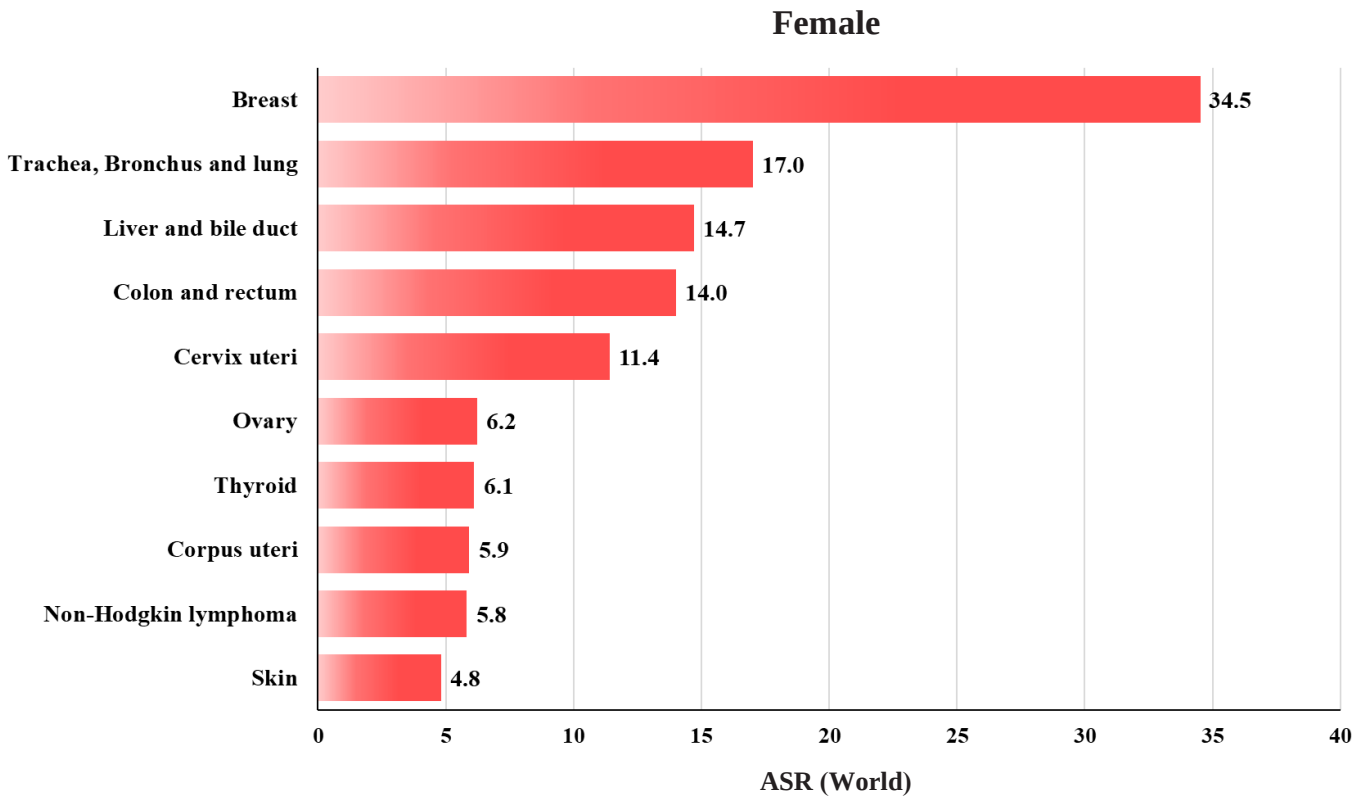


Table 3.4.1 Nan (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C00	0.0	0.0
Tongue	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.6	0.0	6.2	0.0	4.0	2.8	1.2	0.7	C01-02	0.1	0.1
Mouth	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	4.6	4.1	5.4	3.5	6.2	0.0	4.0	8.4	2.6	1.6	C03-06	0.1	0.2
Salivary glands	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.8	0.3	0.2	C07-08	0.0	0.0
Tonsil	1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	4.0	2.8	0.6	0.6	C09	0.0	0.0
Other oropharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.8	0.3	0.2	C10	0.0	0.0
Nasopharynx	10	0.0	0.0	2.3	0.0	0.0	0.0	0.0	3.1	2.3	4.1	5.4	7.0	12.4	9.1	16.2	11.2	4.7	2.6	C11	0.2	0.3
Hypopharynx	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	2.3	4.1	1.8	5.2	0.0	0.0	0.0	5.6	1.6	1.0	C12-13	0.1	0.1
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.2	0.1	C14	0.0	0.0
Oesophagus	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	9.2	2.0	7.2	3.5	22.8	2.3	8.1	8.4	4.7	2.9	C15	0.3	0.3
Stomach	14	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	2.3	2.0	3.6	3.5	29.0	18.3	28.3	14.0	6.4	3.3	C16	0.2	0.5
Small intestine	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	3.5	0.0	0.0	0.0	2.8	0.6	0.3	C17	0.0	0.0
Colon	32	0.0	0.0	0.0	0.0	2.8	2.9	6.8	3.1	9.2	10.2	16.3	12.2	24.8	41.1	56.7	58.8	14.8	8.1	C18	0.4	0.9
Rectum	36	0.0	0.0	0.0	0.0	2.8	5.8	0.0	0.0	4.6	16.3	16.3	17.4	51.8	32.0	44.5	72.8	16.8	8.8	C19-20	0.6	1.0
Anus	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	2.8	0.3	0.1	C21	0.0	0.0
Liver and bile duct	149	3.0	0.0	0.0	0.0	0.0	0.0	10.2	24.7	32.3	49.0	92.4	116.7	173.9	150.7	149.8	254.9	69.3	36.2	C22,C24	2.5	4.0
Gallbladder	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	1.8	0.0	4.1	4.6	4.0	14.0	2.0	1.0	C23	0.1	0.1
Pancreas	10	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	4.1	5.4	7.0	12.4	9.1	8.1	19.6	4.5	2.3	C25	0.2	0.2
Nose, sinuses etc.	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	1.8	1.7	2.1	0.0	0.0	0.0	0.6	0.4	C30-31	0.0	0.0
Larynx	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	2.3	4.1	0.0	0.0	6.2	4.6	8.1	5.6	2.0	1.2	C32	0.1	0.1
Trachea, Bronchus and lung	119	0.0	0.0	0.0	2.3	0.0	2.9	0.0	3.1	11.5	28.6	41.7	52.3	99.4	157.5	242.9	294.1	55.5	26.6	C33-34	1.2	3.2
Other thoracic organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	1.7	0.0	2.3	0.0	0.0	0.5	0.3	C37-38	0.0	0.0
Bone	3	0.0	0.0	2.3	2.3	0.0	0.0	3.4	0.0	0.0	2.0	0.0	1.7	4.1	0.0	8.1	0.0	1.4	1.1	C40-C41	0.1	0.1
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	2.0	0.0	0.0	2.1	0.0	4.0	5.6	0.9	0.6	C43	0.0	0.1
Other skin	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	6.1	3.6	8.7	14.5	13.7	20.2	61.6	7.9	3.7	C44	0.2	0.3
Kaposi's sarcoma	1	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	C46	0.0	0.0
Connective tissue	4	0.0	0.0	0.0	0.0	0.0	0.0	6.8	3.1	2.3	6.1	1.8	0.0	8.3	0.0	0.0	2.8	2.0	1.6	C47,C49	0.1	0.1
Breast	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	2.8	0.5	0.2	C50	0.0	0.0
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51	0.0	0.0
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52	0.0	0.0
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53	0.0	0.0
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54	0.0	0.0
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55	0.0	0.0
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56	0.0	0.0
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57	0.0	0.0
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58	0.0	0.0
Penis	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	1.8	8.7	6.2	2.3	8.1	14.0	2.8	1.3	C60	0.1	0.1
Prostate	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	35.2	54.8	72.9	165.3	19.1	8.2	C61	0.2	0.9
Testis	3	3.0	3.0	0.0	2.3	2.8	0.0	0.0	6.2	0.0	0.0	0.0	0.0	4.1	0.0	0.0	2.8	1.4	1.7	C62	0.1	0.1
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.2	0.1	C63	0.0	0.0
Kidney	5	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	2.3	2.0	1.8	0.0	2.1	9.1	12.1	5.6	2.2	1.3	C64	0.1	0.2
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.1	0.0	4.0	0.0	0.6	0.3	C65	0.0	0.0
Ureter	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C66	0.0	0.0
Bladder	15	3.0	3.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	6.1	7.2	3.5	12.4	13.7	4.0	56.0	7.0	3.8	C67	0.2	0.3
Other urinary organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	2.8	0.3	0.1	C68	0.0	0.0
Eye	0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	C69	0.0	0.0
Brain, nervous system	7	6.1	0.0	0.0	0.0	0.0	0.0	6.8	0.0	2.3	2.0	0.0	5.2	4.1	2.3	20.2	8.4	3.1	2.4	C70-72	0.1	0.2
Thyroid	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	2.1	0.0	16.2	2.8	1.1	0.6	C73	0.0	0.1
Adrenal gland	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.3	0.0	0.0	0.3	0.2	C74	0.0	0.0
Other endocrine	1	0.0	0.0	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	C75	0.0	0.0
Hodgkin disease	2	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	4.0	5.6	1.1	0.8	C81	0.0	0.1
Non-Hodgkin lymphoma	32	0.0	3.0	0.0	0.0	5.7	8.6	0.0	6.2	6.9	14.3	21.7	13.9	29.0	27.4	32.4	64.4	14.8	8.7	C82-85,C96	0.5	0.8
Multiple myeloma	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.5	8.3	13.7	20.2	8.4	3.4	1.6	C90	0.1	0.2
Lymphoid leukemia	3	3.0	0.0	2.3	0.0	0.0	0.0	0.0	3.1	0.0	0.0	3.6	0.0	2.1	0.0	4.0	2.8	1.2	1.2	C91	0.1	0.1
Myeloid leukemia	10	0.0	0.0	0.0	2.3	2.8	0.0	0.0	0.0	2.3	2.0	1.8	1.7	14.5	13.7	16.2	16.8	4.5	2.5	C92-94	0.1	0.3
Leukemia unspecified	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.7	0.0	2.3	8.1	16.8	1.7	0.7	C95	0.0	0.1
Myelodysplastic disease	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.6	0.0	2.8	0.6	0.3	D45-D47	0.0	0.0
Other and unspecified	12	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	8.2	5.4	7.0	4.1	16.0	20.2	28.0	5.8	3.1	O&U	0.2	0.3
All sites	**588**	**21.2**	**14.9**	**9.2**	**15.8**	**17.1**	**20.2**	**47.6**	**80.2**	**110.6**	**189.8**	**259.1**	**303.1**	**621.1**	**611.9**	**858.3**	**1,263.3**	**274.3**	**145.7**	**ALL**	**8.5**	**15.9**

Table 3.4.2 Nan (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	4.5	0.5	0.2	C00	0.0	0.0
Tongue	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.2	3.9	0.0	0.0	2.0	2.1	0.0	2.3	1.1	0.7	C01-02	0.1	0.1
Mouth	3	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.1	0.0	13.6	1.5	0.8	C03-06	0.0	0.0
Salivary glands	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.4	0.0	2.0	0.0	3.7	0.0	0.8	0.5	C07-08	0.0	0.1
Tonsil	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	2.3	0.5	0.2	C09	0.0	0.0
Other oropharynx	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C10	0.0	0.0
Nasopharynx	5	0.0	0.0	0.0	2.5	3.3	0.0	3.4	0.0	0.0	9.8	1.7	1.7	4.0	0.0	7.4	4.5	2.4	1.8	C11	0.1	0.2
Hypopharynx	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	C12-13	0.0	0.0
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C14	0.0	0.0
Oesophagus	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	6.0	0.0	0.0	6.8	1.1	0.4	C15	0.0	0.0
Stomach	12	0.0	0.0	0.0	0.0	0.0	3.1	3.4	3.0	2.2	2.0	6.7	1.7	12.0	14.9	14.8	20.4	5.5	2.9	C16	0.2	0.3
Small intestine	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.2	0.1	C17	0.0	0.0
Colon	35	0.0	0.0	0.0	0.0	0.0	0.0	3.4	12.1	2.2	7.8	18.5	30.1	33.9	27.6	36.9	56.6	15.9	7.7	C18	0.5	0.9
Rectum	26	0.0	0.0	0.0	0.0	3.3	0.0	3.4	3.0	4.3	11.8	6.7	21.7	35.9	25.5	22.1	29.4	11.8	6.1	C19-20	0.5	0.7
Anus	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	C21	0.0	0.0
Liver and bile duct	71	3.2	0.0	2.4	0.0	0.0	0.0	0.0	3.0	6.5	11.8	35.4	53.4	51.9	63.7	107.0	140.3	32.4	14.7	C22,C24	0.8	1.7
Gallbladder	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.3	0.0	4.2	22.1	9.0	2.3	1.0	C23	0.0	0.2
Pancreas	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	3.4	3.3	12.0	4.2	18.5	13.6	3.7	1.7	C25	0.1	0.2
Nose, sinuses etc.	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.2	0.1	C30-31	0.0	0.0
Larynx	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C32	0.0	0.0
Trachea, Bronchus and lung	88	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	4.3	19.6	21.9	55.1	51.9	78.6	158.7	221.7	40.2	17.0	C33-34	0.8	2.0
Other thoracic organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	1.7	1.7	2.0	0.0	0.0	0.0	0.6	0.4	C37-38	0.0	0.0
Bone	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	2.0	1.7	3.3	4.0	0.0	0.0	2.3	1.4	0.8	C40-C41	0.1	0.1
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	2.1	0.0	6.8	0.9	0.3	C43	0.0	0.0
Other skin	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.0	5.9	6.7	6.7	12.0	17.0	29.5	79.2	10.7	4.5	C44	0.2	0.4
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46	0.0	0.0
Connective tissue	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	4.2	7.4	4.5	1.1	0.5	C47,C49	0.0	0.1
Breast	130	0.0	0.0	0.0	0.0	0.0	9.2	27.3	45.5	47.8	86.3	104.6	116.9	129.7	110.4	99.6	49.8	59.6	34.5	C50	2.8	3.9
Vulva	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	2.0	0.0	7.4	2.3	0.8	0.5	C51	0.0	0.1
Vagina	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	7.4	0.0	0.5	0.2	C52	0.0	0.0
Cervix uteri	35	0.0	0.0	0.0	0.0	0.0	18.3	20.5	24.2	23.9	25.5	23.6	26.7	16.0	12.7	22.1	27.1	16.2	11.4	C53	0.9	1.1
Corpus uteri	24	0.0	0.0	0.0	0.0	0.0	3.1	3.4	3.0	6.5	3.9	16.9	28.4	35.9	21.2	25.8	4.5	11.0	5.9	C54	0.5	0.7
Uterus unspecified	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	6.7	0.0	2.0	0.0	0.0	2.3	1.4	0.8	C55	0.1	0.1
Ovary	20	0.0	3.1	2.4	5.1	3.3	0.0	3.4	18.2	8.7	2.0	10.1	13.4	22.0	14.9	22.1	9.0	9.0	6.2	C56	0.5	0.6
Other female genital organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	1.7	2.0	0.0	0.0	0.0	0.6	0.3	C57	0.0	0.0
Placenta	1	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	C58	0.0	0.0
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60	0.0	0.0
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61	0.0	0.0
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62	0.0	0.0
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63	0.0	0.0
Kidney	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	2.1	3.7	9.0	1.1	0.4	C64	0.0	0.0
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	2.3	0.6	0.4	C65	0.0	0.1
Ureter	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.2	0.1	C66	0.0	0.0
Bladder	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	1.7	5.0	4.0	2.1	3.7	15.8	2.6	1.1	C67	0.1	0.1
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C68	0.0	0.0
Eye	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	4.5	0.5	0.2	C69	0.0	0.0
Brain, nervous system	9	0.0	0.0	2.4	0.0	0.0	0.0	0.0	3.0	4.3	3.9	6.7	3.3	10.0	14.9	7.4	2.3	4.1	2.4	C70-72	0.2	0.3
Thyroid	16	0.0	0.0	0.0	0.0	13.4	6.1	17.1	9.1	13.0	7.8	10.1	6.7	8.0	2.1	11.1	15.8	7.5	6.1	C73	0.5	0.5
Adrenal gland	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C74	0.0	0.0
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C75	0.0	0.0
Hodgkin disease	1	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.3	0.3	C81	0.0	0.0
Non-Hodgkin lymphoma	23	0.0	3.1	0.0	0.0	3.3	0.0	3.4	6.1	2.2	5.9	8.4	23.4	25.9	19.1	33.2	24.9	10.7	5.8	C82-85,C96	0.4	0.7
Multiple myeloma	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.7	3.3	2.0	6.4	7.4	11.3	2.7	1.2	C90	0.1	0.1
Lymphoid leukemia	3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.1	3.3	0.0	2.1	3.7	2.3	1.5	1.1	C91	0.1	0.1
Myeloid leukemia	6	0.0	0.0	2.4	2.5	0.0	0.0	3.4	3.0	2.2	2.0	3.4	3.3	2.0	4.2	0.0	9.0	2.6	1.8	C92-94	0.1	0.1
Leukemia unspecified	2	0.0	3.1	0.0	0.0	0.0	3.1	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.8	0.8	C95	0.0	0.0
Myelodysplastic disease	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	2.1	0.0	2.3	0.5	0.2	D45-D47	0.0	0.0
Other and unspecified	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	2.2	0.0	5.1	10.0	2.0	19.1	18.5	38.5	6.7	2.9	O&U	0.1	0.3
All sites	**603**	**6.4**	**9.3**	**11.8**	**10.2**	**30.1**	**45.9**	**95.6**	**160.6**	**147.8**	**229.4**	**323.8**	**439.1**	**501.0**	**488.3**	**708.5**	**855.2**	**276.5**	**147.5**	**ALL**	**10.1**	**16.0**

Table 3.4.3 Mean annual incidence, Nan, 2019-2021

Site	Male						Female						ICD-10
	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	
Lip	0	0.1	0.2	0.2	0.0	0.0	1	0.2	0.5	0.2	0.0	0.0	C00
Tongue	3	0.5	1.2	0.7	0.1	0.1	2	0.4	1.1	0.7	0.1	0.1	C01-02
Mouth	6	1.0	2.6	1.6	0.1	0.2	3	0.6	1.5	0.8	0.0	0.0	C03-06
Salivary glands	1	0.1	0.3	0.2	0.0	0.0	2	0.3	0.8	0.5	0.0	0.1	C07-08
Tonsil	1	0.2	0.6	0.6	0.0	0.0	1	0.2	0.5	0.2	0.0	0.0	C09
Other oropharynx	1	0.1	0.3	0.2	0.0	0.0	0	0.1	0.0	0.0	0.0	0.0	C10
Nasopharynx	10	1.7	4.7	2.6	0.2	0.3	5	0.9	2.4	1.8	0.1	0.2	C11
Hypopharynx	3	0.6	1.6	1.0	0.1	0.1	0	0.1	0.2	0.1	0.0	0.0	C12-13
Pharynx unspecified	0	0.1	0.2	0.1	0.0	0.0	0	0.1	0.0	0.0	0.0	0.0	C14
Oesophagus	10	1.7	4.7	2.9	0.3	0.3	2	0.4	1.1	0.4	0.0	0.0	C15
Stomach	14	2.3	6.4	3.3	0.2	0.5	12	2.0	5.5	2.9	0.2	0.3	C16
Small intestine	1	0.2	0.6	0.3	0.0	0.0	0	0.1	0.2	0.1	0.0	0.0	C17
Colon	32	5.4	14.8	8.1	0.4	0.9	35	5.7	15.9	7.7	0.5	0.9	C18
Rectum	36	6.1	16.8	8.8	0.6	1.0	26	4.3	11.8	6.1	0.5	0.7	C19-20
Anus	1	0.1	0.3	0.1	0.0	0.0	1	0.1	0.3	0.2	0.0	0.0	C21
Liver and bile duct	149	25.3	69.3	36.2	2.5	4.0	71	11.7	32.4	14.7	0.8	1.7	C22,C24
Gallbladder	4	0.7	2.0	1.0	0.1	0.1	5	0.8	2.3	1.0	0.0	0.2	C23
Pancreas	10	1.6	4.5	2.3	0.2	0.2	8	1.3	3.7	1.7	0.1	0.2	C25
Nose, sinuses etc.	1	0.2	0.6	0.4	0.0	0.0	0	0.1	0.2	0.1	0.0	0.0	C30-31
Larynx	4	0.7	2.0	1.2	0.1	0.1	0	0.1	0.0	0.0	0.0	0.0	C32
Trachea, Bronchus and lung	119	20.2	55.5	26.6	1.2	3.2	88	14.5	40.2	17.0	0.8	2.0	C33-34
Other thoracic organs	1	0.2	0.5	0.3	0.0	0.0	1	0.2	0.6	0.4	0.0	0.0	C37-38
Bone	3	0.5	1.4	1.1	0.1	0.1	3	0.5	1.4	0.8	0.1	0.1	C40-C41
Melanoma of skin	2	0.3	0.9	0.6	0.0	0.1	2	0.3	0.9	0.3	0.0	0.0	C43
Other skin	17	2.9	7.9	3.7	0.2	0.3	23	3.9	10.7	4.5	0.2	0.4	C44
Kaposi's sarcoma	1	0.1	0.3	0.4	0.0	0.0	0	0.1	0.0	0.0	0.0	0.0	C46
Connective tissue	4	0.7	2.0	1.6	0.1	0.1	2	0.4	1.1	0.5	0.0	0.1	C47,C49
Breast	1	0.2	0.5	0.2	0.0	0.0	130	21.5	59.6	34.5	2.8	3.9	C50
Vulva							2	0.3	0.8	0.5	0.0	0.1	C51
Vagina							1	0.2	0.5	0.2	0.0	0.0	C52
Cervix uteri							35	5.9	16.2	11.4	0.9	1.1	C53
Corpus uteri							24	4.0	11.0	5.9	0.5	0.7	C54
Uterus unspecified							3	0.5	1.4	0.8	0.1	0.1	C55
Ovary							20	3.3	9.0	6.2	0.5	0.6	C56
Other female genital organs							1	0.2	0.6	0.3	0.0	0.0	C57
Placenta							1	0.1	0.3	0.3	0.0	0.0	C58
Penis	6	1.0	2.8	1.3	0.1	0.1							C60
Prostate	41	7.0	19.1	8.2	0.2	0.9							C61
Testis	3	0.5	1.4	1.7	0.1	0.1							C62
Other male genital organs	0	0.1	0.2	0.1	0.0	0.0							C63
Kidney	5	0.8	2.2	1.3	0.1	0.2	2	0.4	1.1	0.4	0.0	0.0	C64
Renal pelvis	1	0.2	0.6	0.3	0.0	0.0	1	0.2	0.6	0.4	0.0	0.1	C65
Ureter	0	0.1	0.0	0.0	0.0	0.0	0	0.1	0.2	0.1	0.0	0.0	C66
Bladder	15	2.5	7.0	3.8	0.2	0.3	6	0.9	2.6	1.1	0.1	0.1	C67
Other urinary organs	1	0.1	0.3	0.1	0.0	0.0	0	0.1	0.0	0.0	0.0	0.0	C68
Eye	0	0.1	0.2	0.3	0.0	0.0	1	0.2	0.5	0.2	0.0	0.0	C69
Brain, nervous system	7	1.1	3.1	2.4	0.1	0.2	9	1.5	4.1	2.4	0.2	0.3	C70-72
Thyroid	2	0.4	1.1	0.6	0.0	0.1	16	2.7	7.5	6.1	0.5	0.5	C73
Adrenal gland	1	0.1	0.3	0.2	0.0	0.0	0	0.1	0.0	0.0	0.0	0.0	C74
Other endocrine	1	0.1	0.3	0.4	0.0	0.0	0	0.1	0.0	0.0	0.0	0.0	C75
Hodgkin disease	2	0.4	1.1	0.8	0.0	0.1	1	0.1	0.3	0.3	0.0	0.0	C81
Non-Hodgkin lymphoma	32	5.4	14.8	8.7	0.5	0.8	23	3.9	10.7	5.8	0.4	0.7	C82-85,C96
Multiple myeloma	7	1.2	3.4	1.6	0.1	0.2	6	1.0	2.7	1.2	0.1	0.1	C90
Lymphoid leukemia	3	0.5	1.2	1.2	0.1	0.1	3	0.6	1.5	1.1	0.1	0.1	C91
Myeloid leukemia	10	1.6	4.5	2.5	0.1	0.3	6	0.9	2.6	1.8	0.1	0.1	C92-94
Leukemia unspecified	4	0.6	1.7	0.7	0.0	0.1	2	0.3	0.8	0.8	0.0	0.0	C95
Myelodysplastic disease	1	0.2	0.6	0.3	0.0	0.0	1	0.2	0.5	0.2	0.0	0.0	D45-D47
Other and unspecified	12	2.1	5.8	3.1	0.2	0.3	15	2.4	6.7	2.9	0.1	0.3	O&U
All sites	**588**	**100.0**	**274.3**	**145.7**	**8.5**	**15.9**	**603**	**100.0**	**276.5**	**147.5**	**10.1**	**16.0**	**ALL**

Table 3.4.4 Percentage of morphologically verified and death certificate only cases, Nan

Site	Male			Female			ICD-10
	Cases 3 Year	%MV	%DCO	Cases 3 Year	%MV	%DCO	
Oral cavity	28	82.1	3.6	25	84.0	0.0	C00-C08
Oropharynx	7	71.4	0.0	3	100.0	0.0	C09-C10,C14
Nasopharynx	30	93.3	0.0	16	100.0	0.0	C11
Hypopharynx	10	90.0	0.0	1	100.0	0.0	C12-C13
Esophagus	30	86.7	6.7	7	71.4	0.0	C15
Stomach	41	87.8	0.0	36	61.1	13.9	C16
Small intestine	4	75.0	25.0	1	100.0	0.0	C17
Colon and rectum	205	88.8	2.0	183	86.3	2.7	C18-C21
Liver and bile duct	446	16.6	15.5	212	18.4	17.9	C22,C24
Gallbladder	13	38.5	0.0	15	46.7	20.0	C23
pancrease	29	27.6	10.3	24	12.5	0.0	C25
Nose,sinuses etc	4	100.0	0.0	1	100.0	0.0	C30-C31
Larynx	13	84.6	0.0	0	0.0	0.0	C32
Trachea, brochus and lung	357	46.2	7.3	263	39.5	11.8	C33-C34
Other thoracic organs	3	100.0	0.0	4	75.0	0.0	C37-C38
Bone	9	55.6	0.0	9	77.8	11.1	C40-C41
Melanoma of skin	6	100.0	0.0	6	100.0	0.0	C43
Other skin	51	88.2	0.0	70	84.3	7.1	C44
Mesothelioma	0	0.0	0.0	0	0.0	0.0	C45
Kaposi sarcoma	2	100.0	0.0	0	0.0	0.0	C46
Connective and soft tissue	13	69.2	15.4	7	71.4	0.0	C47,C49
Breast	3	100.0	0.0	390	94.9	0.8	C50
Vulva				5	100.0	0.0	C51
Vagina				3	100.0	0.0	C52
Cervix uteri				106	90.6	1.9	C53
Corpus uteri				72	95.8	0.0	C54
Uterus unspecified				9	66.7	33.3	C55
Ovary				59	61.0	6.8	C56
Other female genital organs				4	100.0	0.0	C57
Placenta				2	100.0	0.0	C58
Penis	18	100.0	0.0				C60
Prostate	123	93.5	1.6				C61
Testis	9	77.8	0.0				C62
Other male genital organs	1	100.0	0.0				C63
Kidney	14	85.7	0.0	7	85.7	0.0	C64
Renal pelvis	4	0.0	0.0	4	50.0	0.0	C65
Ureter	0	0.0	0.0	1	100.0	0.0	C66
Bladder	45	95.6	0.0	17	88.2	0.0	C67
Other urinary organs	2	100.0	0.0	0	0.0	0.0	C68
Eye	1	100.0	0.0	3	100.0	0.0	C69
Brain, nervous system	20	65.0	5.0	27	44.4	14.8	C70-C72
Thyroid	7	85.7	0.0	49	89.8	0.0	C73
Adrenal gland	2	100.0	0.0	0	0.0	0.0	C74
Other endocrine	2	50.0	0.0	0	0.0	0.0	C75
Hodgkin disease	7	100.0	0.0	2	100.0	0.0	C81
Non-Hodgkin lymphoma	95	100.0	0.0	70	100.0	0.0	C82-C85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	22	100.0	0.0	18	100.0	0.0	C90
Leukemia	48	91.7	6.3	32	93.8	6.3	C91-C95
Myelodysplastic	4	100.0	0.0	3	100.0	0.0	D45-D47
Other and unspecified	37	50.0	17.6	44	23.8	35.7	O&U
All sites	**1,765**	**60.2**	**6.8**	**1,810**	**70.1**	**6.7**	**All**
All sites without liver	**1,319**	**74.9**	**3.9**	**1,598**	**76.9**	**5.2**	**All**

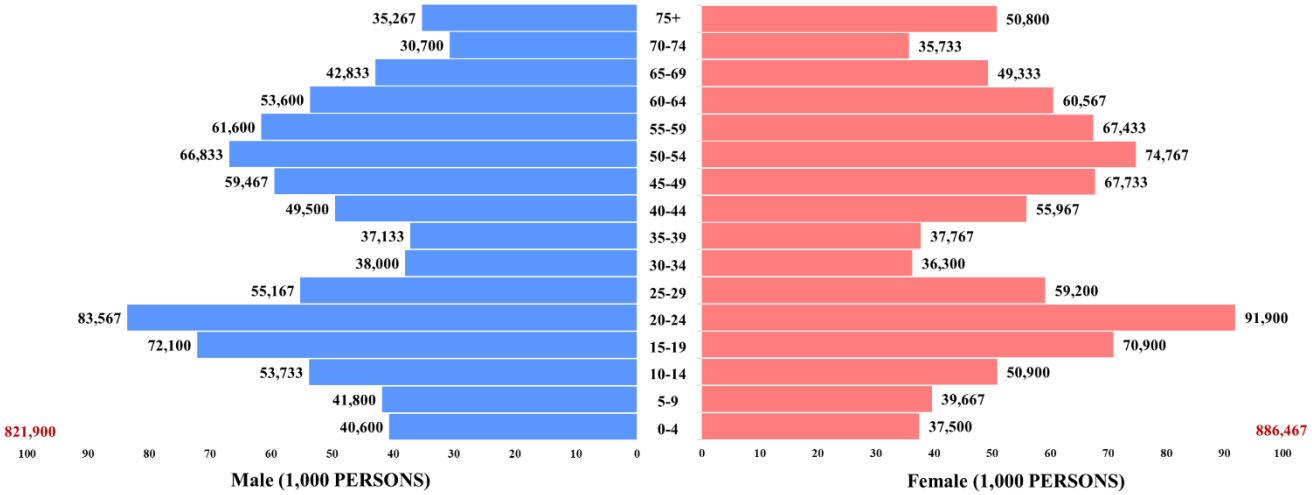
3.5 Khon Kaen Cancer Registry

Registration area

Khon Kaen province is located in the northeastern region of Thailand, at latitude 16:30 ° N and longitude 102:47 ° E, 163 meters above the sea level. It covers an area of 10,886 square kilometers with a population of 1.8 million (Figure 1). It has a common boundary with Loei and Udon Thani provinces to the north, Kalasin and Maha Sarakham to the east, Nakhon Ratchasima and Buri Ram to the south, and Phetchabun and Chaiyaphum to the west.

Khon Kaen province is divided to 26 sanitary districts. The climate is generally hot and dry. The mean temperature is 28 Celsius and the average annual rainfall is 1,188 millimeters. The majority of people are engaged in rice farming. However, new industrial plants have also been established in this area, causing problems of environmental pollution.

Population pyramid Khon Kaen
estimated population in 2020 (2019 – 2021)



Cancer care facilities

The two major hospitals with radiotherapy facilities and all sub-specialties for cancer treatment are Srinagarind Hospital (a university hospital) and Khon Kaen Hospital (a provincial hospital). Most remaining hospitals belong to the Ministry of Public Health, including one army hospital. There are three large private hospitals. Attempts to improve the referral system have gained some support, but many patients still refer themselves according to their preferences.

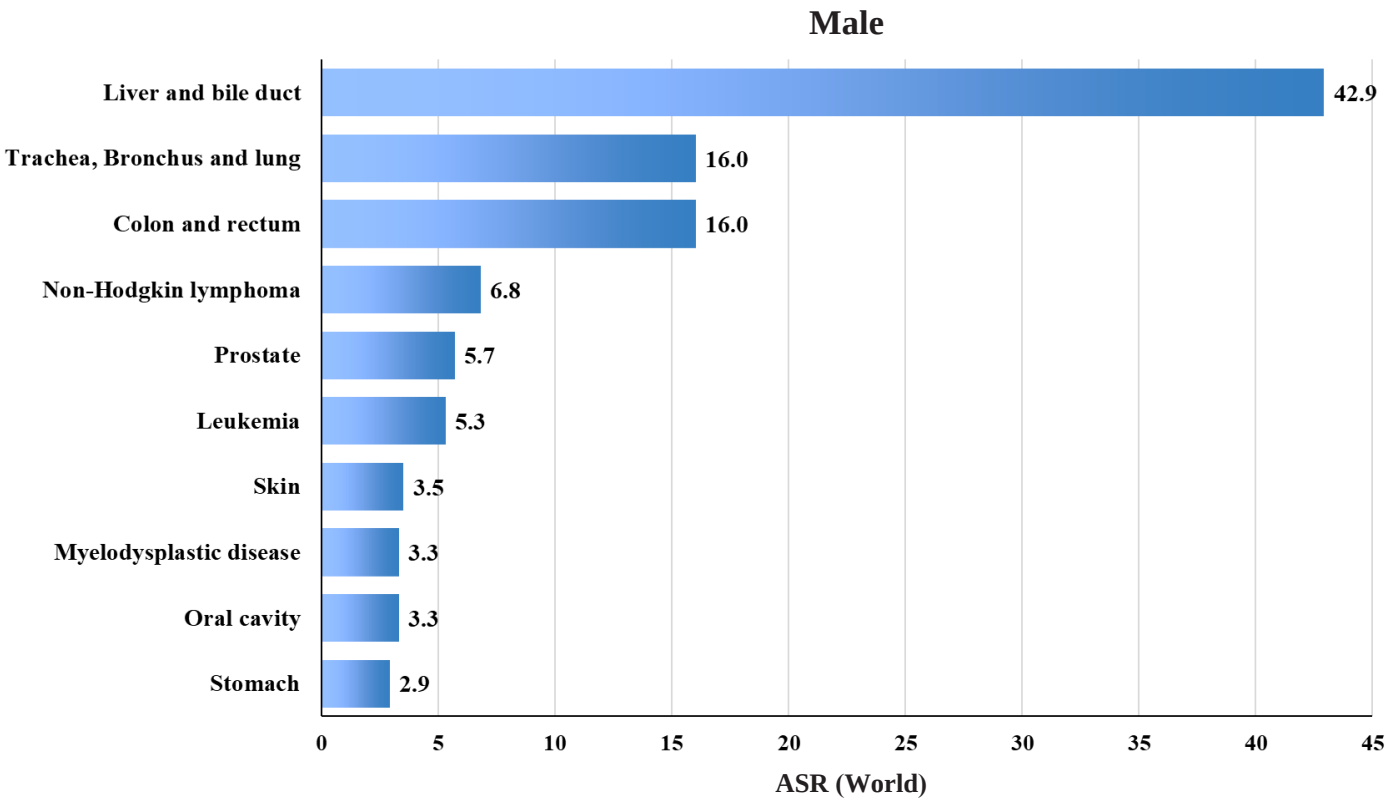
Registry procedures

The data on cancer patients are collected by both active and passive methods from a university hospital (Srinagarind Hospital), 1 regional hospital (Khon Kaen provincial hospital), 2 private hospitals and 24 community hospitals. The registrars visit all registered sites by regular schedule. The medical charts of patients diagnosed as having cancer are reviewed and registered by registry personnel. Any questionable cases are traced to the original source(s) of information for clarification. Multiple primary cases are checked by physicians using their original records and with any other physicians concerned. Death certificates with a mention of cancer are collected from the population statistics of the office of the Ministry of Interior. The registrars revise these sources to notify and recheck with health personnel in the relevant area. The vital status of registered cases has been regularly updated by checking with the population statistics of the office of the Ministry of Interior using the personal identification number. To prevent duplication, all data are reviewed and checked with existing registry files before entry. All the data are verified, checked for duplication, coded and entered into the CanReg4 software.

Summary of results

New cases registered in 2020, 1,775 were males and 1,677 were females, making 3,452 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males is 135.6 per 100,000, with liver and bile duct cancer ranking first (ASR = 42.9) followed by lung (ASR = 16.0) and colon and rectum (ASR = 16.0). The ASR for all cancer sites in females was 119.9 per 100,000, the three leading cancer sites in females being breast (ASR = 30.1), colon and rectum (ASR = 12.5) and liver and bile duct (ASR = 10.9).

Figure 3.5.1 Leading cancer in Khon Kaen (mean annual ASR 2019-2021)



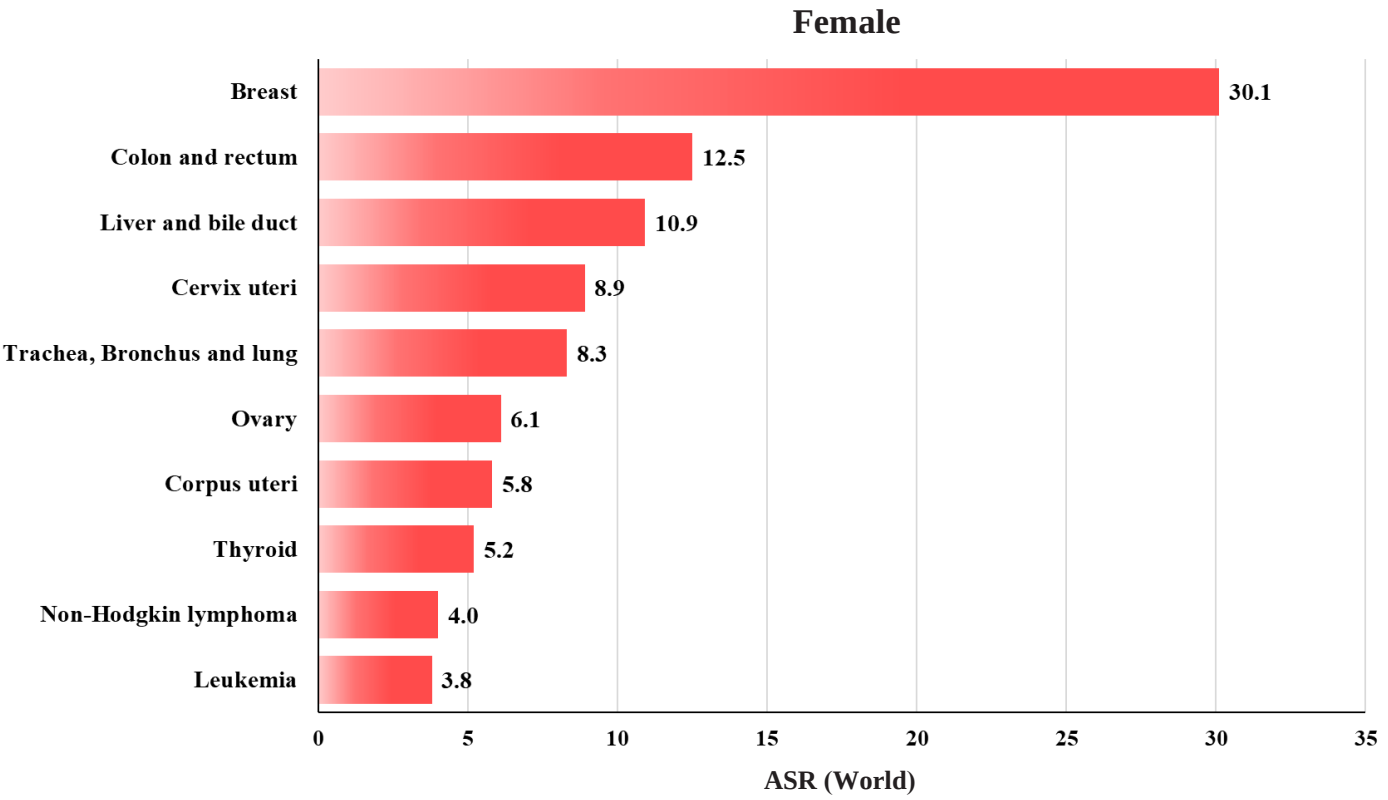


Table 3.5.1 Khon Kaen (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	2.8	0.2	0.1	C00	0.0	0.0
Tongue	20	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	2.7	5.6	4.5	3.8	5.6	5.4	6.5	6.6	2.5	1.6	C01-02	0.1	0.2
Mouth	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.0	1.7	1.5	6.5	4.4	4.7	5.4	7.6	2.0	1.3	C03-06	0.1	0.1
Salivary glands	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.1	0.5	1.1	0.6	1.6	1.1	0.9	0.4	0.3	C07-08	0.0	0.0
Tonsil	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.1	2.5	1.6	5.0	2.3	0.0	0.9	1.0	0.7	C09	0.1	0.1
Other oropharynx	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.2	1.9	0.0	0.0	0.0	0.4	0.2	C10	0.0	0.0
Nasopharynx	26	0.0	0.0	0.6	0.9	0.4	0.0	1.8	3.6	3.4	5.0	3.5	7.0	9.3	7.8	6.5	3.8	3.2	2.3	C11	0.2	0.2
Hypopharynx	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	3.4	3.0	0.5	2.5	0.8	1.1	1.9	0.9	0.6	C12-13	0.1	0.1
Pharynx unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.1	0.1	C14	0.0	0.0
Oesophagus	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.0	4.5	9.5	11.9	7.5	10.1	6.5	9.5	3.9	2.4	C15	0.2	0.3
Stomach	38	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.6	2.0	3.9	3.5	6.0	11.8	12.5	29.3	17.0	4.7	2.9	C16	0.2	0.4
Small intestine	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.7	1.2	3.9	7.6	3.8	1.2	0.7	C17	0.0	0.1
Colon	105	0.0	0.0	0.0	0.0	0.0	1.8	4.4	8.1	6.1	5.6	10.0	24.4	33.6	41.2	46.7	61.4	12.8	7.8	C18	0.5	0.9
Rectum	109	0.0	0.0	0.6	0.0	0.4	0.6	0.0	5.4	4.7	7.8	16.0	23.8	34.8	49.0	36.9	63.3	13.2	7.8	C19-20	0.5	0.9
Anus	5	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.9	1.3	0.6	1.5	0.5	1.2	0.8	2.2	0.9	0.6	0.4	C21	0.0	0.0
Liver and bile duct	571	2.5	0.8	0.0	0.0	0.4	1.8	8.8	26.0	35.0	70.6	97.8	147.7	226.4	183.7	230.2	195.7	69.5	42.9	C22,C24	3.1	5.2
Gallbladder	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.0	2.7	2.5	4.7	4.3	15.1	1.5	0.8	C23	0.0	0.1
Pancreas	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	1.3	3.4	2.5	7.6	3.7	7.0	10.9	17.0	3.0	1.8	C25	0.1	0.2
Nose, sinuses etc.	5	0.0	0.0	0.0	0.5	0.4	0.0	0.9	0.0	0.0	0.0	2.0	2.2	1.2	0.8	1.1	0.0	0.6	0.4	C30-31	0.0	0.0
Larynx	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	1.3	2.8	3.5	4.3	8.7	5.4	11.9	6.6	2.6	1.7	C32	0.1	0.2
Trachea, Bronchus and lung	221	0.0	0.0	0.0	0.0	0.0	1.8	0.9	10.8	12.8	20.2	24.9	38.4	60.3	103.5	109.7	133.3	26.9	16.0	C33-34	0.9	1.9
Other thoracic organs	4	0.0	0.0	0.0	0.5	0.8	0.6	0.0	0.0	2.0	0.6	0.0	0.0	1.2	0.8	1.1	0.0	0.5	0.4	C37-38	0.0	0.0
Bone	7	0.0	1.6	1.2	1.8	0.0	0.6	1.8	1.8	0.0	0.6	2.0	0.0	1.2	1.6	0.0	0.0	0.9	0.9	C40-C41	0.1	0.1
Melanoma of skin	6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.5	1.1	1.9	2.3	3.3	4.7	0.7	0.4	C43	0.0	0.1
Other skin	43	0.0	0.0	0.0	0.0	0.0	0.6	0.9	4.5	2.7	1.7	2.0	7.6	8.7	12.5	23.9	41.6	5.2	3.1	C44	0.1	0.3
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	C45	0.0	0.0
Kaposi's sarcoma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C46	0.0	0.0
Connective tissue	10	0.0	0.0	0.6	0.5	0.4	0.6	2.6	0.9	0.0	1.7	2.0	4.3	0.0	1.6	4.3	0.9	1.2	0.9	C47,C49	0.1	0.1
Breast	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.6	1.2	0.0	0.0	2.8	0.4	0.2	C50	0.0	0.0
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51	0.0	0.0
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52	0.0	0.0
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53	0.0	0.0
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54	0.0	0.0
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55	0.0	0.0
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56	0.0	0.0
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57	0.0	0.0
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58	0.0	0.0
Penis	14	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.9	2.0	1.1	1.0	2.7	4.4	4.7	5.4	8.5	1.7	1.0	C60	0.1	0.1
Prostate	87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.0	6.5	24.3	47.5	61.9	78.4	10.5	5.7	C61	0.2	0.7
Testis	8	0.8	0.0	0.6	0.5	2.8	0.6	1.8	1.8	1.3	0.6	0.5	0.0	1.2	0.0	2.2	0.0	0.9	0.9	C62	0.1	0.1
Other male genital organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.5	0.0	0.0	0.0	1.1	0.0	0.1	0.1	C63	0.0	0.0
Kidney	20	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.7	2.7	1.1	2.5	4.3	9.3	3.9	9.8	7.6	2.4	1.6	C64	0.1	0.2
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	1.1	0.9	0.1	0.1	C65	0.0	0.0
Ureter	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.6	0.0	1.9	0.2	0.1	C66	0.0	0.0
Bladder	37	0.0	0.0	0.0	0.0	0.0	0.6	0.9	0.0	1.3	2.2	4.0	3.8	11.8	9.3	23.9	33.1	4.5	2.6	C67	0.1	0.3
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	C68	0.0	0.0
Eye	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.6	0.0	1.9	0.2	0.1	C69	0.0	0.0
Brain, nervous system	18	0.0	1.6	1.2	0.9	0.4	0.0	3.5	0.9	2.0	3.9	2.0	2.2	1.9	7.8	4.3	5.7	2.1	1.7	C70-72	0.1	0.2
Thyroid	14	0.0	0.0	0.0	0.0	0.4	0.6	0.9	0.9	2.0	2.8	2.0	4.3	3.7	3.1	5.4	2.8	1.7	1.2	C73	0.1	0.1
Adrenal gland	1	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	C74	0.0	0.0
Other endocrine	1	0.0	0.0	1.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	C75	0.0	0.0
Hodgkin disease	7	0.0	1.6	0.6	0.5	1.2	0.6	2.6	0.9	0.0	0.0	1.0	1.1	0.0	1.6	2.2	0.9	0.9	0.8	C81	0.1	0.1
Non-Hodgkin lymphoma	87	0.0	0.0	0.6	1.4	1.2	1.8	4.4	6.3	5.4	13.5	9.5	16.2	21.1	32.7	38.0	44.4	10.6	6.8	C82-85,C96	0.4	0.8
Multiple myeloma	18	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	1.7	4.0	3.8	5.0	6.2	9.8	10.4	2.2	1.3	C90	0.1	0.2
Lymphoid leukemia	14	5.7	7.2	3.7	0.9	0.4	0.0	0.0	0.9	0.0	1.7	0.5	1.6	1.2	1.6	1.1	4.7	1.7	2.3	C91	0.1	0.1
Myeloid leukemia	31	1.6	0.8	0.0	1.4	1.2	0.0	3.5	5.4	4.0	1.1	3.0	5.4	10.0	8.6	10.9	13.2	3.8	2.8	C92-94	0.2	0.3
Leukemia unspecified	1	0.8	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.1	0.2	C95	0.0	0.0
Myelodysplastic disease	43	0.0	0.0	0.0	0.9	0.4	1.2	0.0	4.5	4.7	4.5	8.0	4.9	8.1	11.7	16.3	33.1	5.2	3.3	D45-D47	0.2	0.3
Other and unspecified	52	0.0	0.0	0.0	0.0	0.4	1.2	1.8	0.0	4.1	7.8	6.0	14.6	12.4	14.1	29.3	24.6	6.3	3.8	O&U	0.2	0.5
All sites	**1,775**	**12.3**	**14.4**	**11.8**	**11.1**	**11.6**	**16.3**	**48.2**	**105.0**	**112.5**	**186.7**	**246.4**	**382.0**	**552.9**	**621.0**	**773.1**	**871.5**	**216.0**	**135.6**	**ALL**	**8.6**	**15.5**

Table 3.5.2 Khon Kaen (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.4	5.6	7.9	0.8	0.4	C00	0.0	0.0
Tongue	10	0.0	0.0	0.0	0.0	0.0	0.6	0.9	2.6	0.6	2.0	0.9	2.5	1.7	2.0	3.7	2.0	1.1	0.8	C01-02	0.1	0.1
Mouth	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.3	1.0	1.7	2.7	8.4	13.8	1.6	0.7	C03-06	0.0	0.1
Salivary glands	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4	0.0	1.7	1.4	0.0	1.3	0.3	0.2	C07-08	0.0	0.0
Tonsil	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	C09	0.0	0.0
Other oropharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.6	0.0	0.0	0.0	0.1	0.1	C10	0.0	0.0
Nasopharynx	11	0.0	0.0	0.0	0.5	0.0	0.0	2.8	2.6	1.2	3.0	1.8	2.5	2.2	2.0	0.9	0.7	1.2	1.0	C11	0.1	0.1
Hypopharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.0	0.7	0.9	0.0	0.2	0.1	C12-13	0.0	0.0
Pharynx unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.6	0.0	0.9	0.0	0.1	0.1	C14	0.0	0.0
Oesophagus	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4	1.0	0.6	0.0	1.9	0.7	0.3	0.2	C15	0.0	0.0
Stomach	33	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.5	4.2	3.4	3.1	7.9	8.3	12.8	13.1	6.6	3.8	2.3	C16	0.2	0.3
Small intestine	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	1.5	0.0	3.4	0.9	2.0	0.6	0.3	C17	0.0	0.0
Colon	114	0.0	0.0	0.0	0.0	0.0	0.6	2.8	7.9	6.0	13.3	18.3	17.8	29.2	33.8	37.3	47.2	12.9	7.3	C18	0.5	0.8
Rectum	79	0.0	0.0	0.0	0.0	0.7	0.6	2.8	4.4	3.6	7.9	11.6	14.3	19.8	22.3	24.3	34.8	8.9	5.0	C19-20	0.3	0.6
Anus	3	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.6	0.5	0.9	0.5	1.1	0.0	0.0	0.7	0.3	0.2	C21	0.0	0.0
Liver and bile duct	189	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.9	4.2	13.3	16.5	28.7	42.9	65.5	97.9	101.7	21.4	10.9	C22,C24	0.5	1.4
Gallbladder	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.5	0.9	2.5	4.4	5.4	5.6	9.8	1.9	1.0	C23	0.1	0.1
Pancreas	23	0.0	0.0	0.0	0.0	0.4	0.0	1.8	0.0	0.0	2.0	3.1	5.9	4.4	6.8	9.3	9.2	2.6	1.4	C25	0.1	0.2
Nose, sinuses etc.	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.5	0.0	0.0	0.0	0.0	0.9	3.3	0.3	0.1	C30-31	0.0	0.0
Larynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.4	0.0	0.0	0.7	0.9	0.7	0.2	0.1	C32	0.0	0.0
Trachea, Bronchus and lung	126	0.0	0.0	0.0	0.0	0.7	1.1	2.8	7.9	7.1	11.3	24.1	25.7	31.4	39.9	49.4	34.8	14.3	8.3	C33-34	0.6	1.0
Other thoracic organs	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.0	0.6	0.0	0.0	0.0	0.3	0.2	C37-38	0.0	0.0
Bone	3	0.0	1.7	1.3	0.0	0.0	0.0	1.8	0.0	1.2	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.4	0.5	C40-C41	0.0	0.0
Melanoma of skin	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.8	1.5	0.0	4.1	5.6	2.6	0.9	0.5	C43	0.0	0.1
Other skin	48	0.0	0.0	0.0	0.5	0.0	0.0	0.9	0.9	0.0	3.0	4.9	6.9	6.6	14.9	17.7	38.1	5.5	2.7	C44	0.1	0.3
Mesothelioma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.1	0.1	C45	0.0	0.0
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46	0.0	0.0
Connective tissue	7	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	2.0	0.4	2.0	2.2	2.0	0.9	2.0	0.8	0.5	C47,C49	0.0	0.1
Breast	387	0.0	0.0	0.0	0.0	0.4	5.1	30.3	54.7	65.5	83.2	78.9	102.3	84.2	65.5	71.8	43.3	43.7	30.1	C50	2.5	3.2
Vulva	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.4	1.0	0.0	0.7	2.8	2.6	0.5	0.2	C51	0.0	0.0
Vagina	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	1.1	0.0	0.9	0.7	0.2	0.1	C52	0.0	0.0
Cervix uteri	105	0.0	0.0	0.0	0.0	1.1	4.5	11.9	28.2	16.7	21.7	19.2	18.8	19.8	22.3	21.5	8.5	11.8	8.9	C53	0.7	0.9
Corpus uteri	80	0.0	0.0	0.0	0.0	0.0	2.3	1.8	9.7	7.7	9.8	11.6	23.7	29.2	18.9	19.6	9.8	9.1	5.8	C54	0.5	0.7
Uterus unspecified	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.6	1.5	2.7	2.0	3.3	2.0	0.9	0.7	1.0	0.6	C55	0.1	0.1
Ovary	75	0.0	0.0	1.3	1.4	1.8	3.9	6.4	12.4	8.3	14.3	17.4	13.8	13.8	12.8	12.1	13.8	8.5	6.1	C56	0.5	0.6
Other female genital organs	4	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.6	1.0	0.4	1.5	0.0	0.0	1.9	0.7	0.4	0.3	C57	0.0	0.0
Placenta	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C58	0.0	0.0
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60	0.0	0.0
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61	0.0	0.0
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62	0.0	0.0
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63	0.0	0.0
Kidney	10	1.8	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.6	1.0	0.4	3.5	3.3	0.7	2.8	3.3	1.1	0.8	C64	0.1	0.1
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.7	0.0	0.0	0.1	0.0	C65	0.0	0.0
Ureter	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.9	0.0	0.1	0.1	C66	0.0	0.0
Bladder	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.5	0.4	3.0	0.6	6.8	1.9	7.9	1.3	0.7	C67	0.0	0.1
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	C68	0.0	0.0
Eye	1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.9	0.0	0.2	0.3	C69	0.0	0.0
Brain, nervous system	13	0.0	0.8	1.3	0.0	0.7	1.1	2.8	0.9	1.2	2.5	2.2	1.5	1.1	1.4	6.5	2.0	1.5	1.2	C70-72	0.1	0.1
Thyroid	61	0.0	0.0	1.3	2.4	4.0	4.5	8.3	10.6	7.1	11.3	11.6	9.9	8.8	10.1	6.5	10.5	6.8	5.2	C73	0.4	0.5
Adrenal gland	1	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4	0.0	0.0	0.0	0.9	0.0	0.2	0.2	C74	0.0	0.0
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	C75	0.0	0.0
Hodgkin disease	4	0.0	0.8	0.0	0.9	0.4	1.1	0.9	0.9	0.6	0.0	0.0	0.0	1.1	0.7	0.9	0.0	0.5	0.5	C81	0.0	0.0
Non-Hodgkin lymphoma	55	2.7	0.0	0.0	0.5	0.4	1.7	2.8	3.5	1.8	8.9	5.3	8.4	15.4	16.2	16.8	20.3	6.2	4.0	C82-85,C96	0.3	0.4
Multiple myeloma	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.0	3.1	4.4	7.7	7.4	6.5	5.2	2.2	1.2	C90	0.1	0.2
Lymphoid leukemia	8	4.4	1.7	0.7	0.5	0.7	0.6	0.0	0.0	0.6	0.0	0.0	0.0	3.3	2.0	1.9	0.0	0.9	1.2	C91	0.1	0.1
Myeloid leukemia	30	1.8	0.8	1.3	1.4	1.1	0.6	1.8	5.3	3.6	3.9	1.8	2.5	7.7	8.1	7.5	8.5	3.4	2.6	C92-94	0.2	0.2
Leukemia unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C95	0.0	0.0
Myelodysplastic disease	41	0.0	0.0	0.0	0.5	0.0	0.0	0.9	1.8	0.6	2.0	4.0	6.4	8.3	12.2	21.5	23.0	4.6	2.4	D45-D47	0.1	0.3
Other and unspecified	37	0.0	0.0	0.0	1.0	0.0	0.6	1.8	0.9	1.8	4.9	4.9	8.4	7.2	15.5	5.6	13.8	4.2	2.5	O&U	0.2	0.3
All sites	**1,677**	**12.4**	**6.7**	**7.2**	**10.3**	**12.3**	**29.3**	**91.8**	**162.4**	**152.5**	**234.3**	**261.7**	**336.1**	**378.6**	**426.4**	**500.0**	**494.1**	**189.2**	**119.9**	**ALL**	**8.5**	**13.1**

Table 3.5.3 Mean annual incidence, Khon Kaen, 2019-2021

Site	Male						Female						ICD-10
	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	
Lip	1	0.1	0.2	0.1	0.0	0.0	7	0.4	0.8	0.4	0.0	0.0	C00
Tongue	20	1.1	2.5	1.6	0.1	0.2	10	0.6	1.1	0.8	0.1	0.1	C01-02
Mouth	17	0.9	2.0	1.3	0.1	0.1	14	0.9	1.6	0.7	0.0	0.1	C03-06
Salivary glands	4	0.2	0.4	0.3	0.0	0.0	3	0.2	0.3	0.2	0.0	0.0	C07-08
Tonsil	8	0.5	1.0	0.7	0.1	0.1	0	0.0	0.0	0.0	0.0	0.0	C09
Other oropharynx	3	0.2	0.4	0.2	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C10
Nasopharynx	26	1.5	3.2	2.3	0.2	0.2	11	0.7	1.2	1.0	0.1	0.1	C11
Hypopharynx	7	0.4	0.9	0.6	0.1	0.1	1	0.1	0.2	0.1	0.0	0.0	C12-13
Pharynx unspecified	1	0.0	0.1	0.1	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C14
Oesophagus	32	1.8	3.9	2.4	0.2	0.3	3	0.2	0.3	0.2	0.0	0.0	C15
Stomach	38	2.2	4.7	2.9	0.2	0.4	33	2.0	3.8	2.3	0.2	0.3	C16
Small intestine	10	0.5	1.2	0.7	0.0	0.1	5	0.3	0.6	0.3	0.0	0.0	C17
Colon	105	5.9	12.8	7.8	0.5	0.9	114	6.8	12.9	7.3	0.5	0.8	C18
Rectum	109	6.1	13.2	7.8	0.5	0.9	79	4.7	8.9	5.0	0.3	0.6	C19-20
Anus	5	0.3	0.6	0.4	0.0	0.0	3	0.2	0.3	0.2	0.0	0.0	C21
Liver and bile duct	571	32.2	69.5	42.9	3.1	5.2	189	11.3	21.4	10.9	0.5	1.4	C22,C24
Gallbladder	13	0.7	1.5	0.8	0.0	0.1	17	1.0	1.9	1.0	0.1	0.1	C23
Pancreas	24	1.4	3.0	1.8	0.1	0.2	23	1.4	2.6	1.4	0.1	0.2	C25
Nose, sinuses etc.	5	0.3	0.6	0.4	0.0	0.0	3	0.2	0.3	0.1	0.0	0.0	C30-31
Larynx	22	1.2	2.6	1.7	0.1	0.2	2	0.1	0.2	0.1	0.0	0.0	C32
Trachea, Bronchus and lung	221	12.5	26.9	16.0	0.9	1.9	126	7.5	14.3	8.3	0.6	1.0	C33-34
Other thoracic organs	4	0.2	0.5	0.4	0.0	0.0	2	0.1	0.3	0.2	0.0	0.0	C37-38
Bone	7	0.4	0.9	0.9	0.1	0.1	3	0.2	0.4	0.5	0.0	0.0	C40-C41
Melanoma of skin	6	0.3	0.7	0.4	0.0	0.1	8	0.5	0.9	0.5	0.0	0.1	C43
Other skin	43	2.4	5.2	3.1	0.1	0.3	48	2.9	5.5	2.7	0.1	0.3	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.1	0.1	0.0	0.0	C45
Kaposi's sarcoma	1	0.0	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	10	0.6	1.2	0.9	0.1	0.1	7	0.4	0.8	0.5	0.0	0.1	C47,C49
Breast	3	0.2	0.4	0.2	0.0	0.0	387	23.1	43.7	30.1	2.5	3.2	C50
Vulva							4	0.2	0.5	0.2	0.0	0.0	C51
Vagina							2	0.1	0.2	0.1	0.0	0.0	C52
Cervix uteri							105	6.2	11.8	8.9	0.7	0.9	C53
Corpus uteri							80	4.8	9.1	5.8	0.5	0.7	C54
Uterus unspecified							9	0.5	1.0	0.6	0.1	0.1	C55
Ovary							75	4.5	8.5	6.1	0.5	0.6	C56
Other female genital organs							4	0.2	0.4	0.3	0.0	0.0	C57
Placenta							1	0.0	0.1	0.1	0.0	0.0	C58
Penis	14	0.8	1.7	1.0	0.1	0.1							C60
Prostate	87	4.9	10.5	5.7	0.2	0.7							C61
Testis	8	0.4	0.9	0.9	0.1	0.1							C62
Other male genital organs	1	0.1	0.1	0.1	0.0	0.0							C63
Kidney	20	1.1	2.4	1.6	0.1	0.2	10	0.6	1.1	0.8	0.1	0.1	C64
Renal pelvis	1	0.1	0.1	0.1	0.0	0.0	1	0.0	0.1	0.0	0.0	0.0	C65
Ureter	2	0.1	0.2	0.1	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C66
Bladder	37	2.1	4.5	2.6	0.1	0.3	12	0.7	1.3	0.7	0.0	0.1	C67
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C68
Eye	2	0.1	0.2	0.1	0.0	0.0	1	0.1	0.2	0.3	0.0	0.0	C69
Brain, nervous system	18	1.0	2.1	1.7	0.1	0.2	13	0.8	1.5	1.2	0.1	0.1	C70-72
Thyroid	14	0.8	1.7	1.2	0.1	0.1	61	3.6	6.8	5.2	0.4	0.5	C73
Adrenal gland	1	0.0	0.1	0.2	0.0	0.0	1	0.1	0.2	0.2	0.0	0.0	C74
Other endocrine	1	0.1	0.1	0.2	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	7	0.4	0.9	0.8	0.1	0.1	4	0.3	0.5	0.5	0.0	0.0	C81
Non-Hodgkin lymphoma	87	4.9	10.6	6.8	0.4	0.8	55	3.3	6.2	4.0	0.3	0.4	C82-85,C96
Multiple myeloma	18	1.0	2.2	1.3	0.1	0.2	20	1.2	2.2	1.2	0.1	0.2	C90
Lymphoid leukemia	14	0.8	1.7	2.3	0.1	0.1	8	0.5	0.9	1.2	0.1	0.1	C91
Myeloid leukemia	31	1.8	3.8	2.8	0.2	0.3	30	1.8	3.4	2.6	0.2	0.2	C92-94
Leukemia unspecified	1	0.1	0.1	0.2	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C95
Myelodysplastic disease	43	2.4	5.2	3.3	0.2	0.3	41	2.4	4.6	2.4	0.1	0.3	D45-D47
Other and unspecified	52	2.9	6.3	3.8	0.2	0.5	37	2.2	4.2	2.5	0.2	0.3	O&U
All sites	**1,775**	**100.0**	**216.0**	**135.6**	**8.6**	**15.5**	**1,677**	**100.0**	**189.2**	**119.9**	**8.5**	**13.1**	**ALL**

Table 3.5.4 Percentage of morphologically verified and death certificate only cases, Khon Kaen

Site	Male			Female			ICD-10
	Cases 3 Year	%MV	%DCO	Cases 3 Year	%MV	%DCO	
Oral cavity	126	92.1	4.8	104	91.3	2.9	C00-C08
Oropharynx	37	100.0	0.0	7	85.7	0.0	C09-C10,C14
Nasopharynx	79	91.1	0.0	33	97.0	0.0	C11
Hypopharynx	22	100.0	0.0	4	75.0	0.0	C12-C13
Esophagus	96	90.6	0.0	8	62.5	0.0	C15
Stomach	115	92.2	1.7	100	90.0	1.0	C16
Small intestine	29	89.7	0.0	15	93.3	0.0	C17
Colon and rectum	657	93.3	0.3	587	92.0	0.0	C18-C21
Liver and bile duct	1,713	14.0	2.3	568	18.1	2.1	C22,C24
Gallbladder	38	47.4	2.6	51	52.9	0.0	C23
pancrease	73	31.5	5.5	68	50.0	0.0	C25
Nose,sinuses etc	15	93.3	0.0	8	87.5	0.0	C30-C31
Larynx	65	87.7	3.1	5	80.0	0.0	C32
Trachea, brochus and lung	664	67.8	2.4	379	80.5	1.8	C33-C34
Other thoracic organs	12	58.3	0.0	7	100.0	0.0	C37-C38
Bone	22	90.9	0.0	10	90.0	10.0	C40-C41
Melanoma of skin	18	100.0	0.0	25	96.0	0.0	C43
Other skin	128	99.2	0.8	145	98.6	0.7	C44
Mesothelioma	1	100.0	0.0	2	100.0	0.0	C45
Kaposi sarcoma	2	100.0	0.0	0	0.0	0.0	C46
Connective and soft tissue	30	100.0	0.0	22	100.0	0.0	C47,C49
Breast	10	100.0	0.0	1,161	92.9	0.7	C50
Vulva				12	100.0	0.0	C51
Vagina				5	100.0	0.0	C52
Cervix uteri				314	92.0	2.2	C53
Corpus uteri				241	98.3	0.0	C54
Uterus unspecified				26	76.9	3.8	C55
Ovary				226	81.4	0.9	C56
Other female genital organs				11	90.9	0.0	C57
Placenta				2	100.0	0.0	C58
Penis	41	90.2	0.0				C60
Prostate	260	84.2	0.8				C61
Testis	23	95.7	0.0				C62
Other male genital organs	3	66.7	33.3				C63
Kidney	60	75.0	0.0	29	79.3	0.0	C64
Renal pelvis	3	100.0	0.0	2	50.0	0.0	C65
Ureter	5	100.0	0.0	3	100.0	0.0	C66
Bladder	111	88.3	0.0	35	80.0	0.0	C67
Other urinary organs	1	100.0	0.0	1	100.0	0.0	C68
Eye	6	83.3	0.0	4	75.0	0.0	C69
Brain, nervous system	53	52.8	0.0	40	80.0	0.0	C70-C72
Thyroid	42	92.9	0.0	182	96.2	0.0	C73
Adrenal gland	2	50.0	0.0	4	100.0	0.0	C74
Other endocrine	3	100.0	0.0	1	100.0	0.0	C75
Hodgkin disease	21	100.0	0.0	13	100.0	0.0	C81
Non-Hodgkin lymphoma	261	100.0	0.0	166	100.0	0.0	C82-C85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	55	100.0	0.0	59	100.0	0.0	C90
Leukemia	140	99.3	0.7	115	99.1	0.9	C91-C95
Myelodysplastic	128	100.0	0.0	122	100.0	0.0	D45-D47
Other and unspecified	155	42.8	14.5	110	39.8	4.6	O&U
All sites	**5,325**	**61.4**	**1.9**	**5,032**	**81.4**	**1.0**	**All**
All sites without liver	**3,612**	**83.9**	**1.6**	**4,464**	**89.5**	**0.8**	**All**

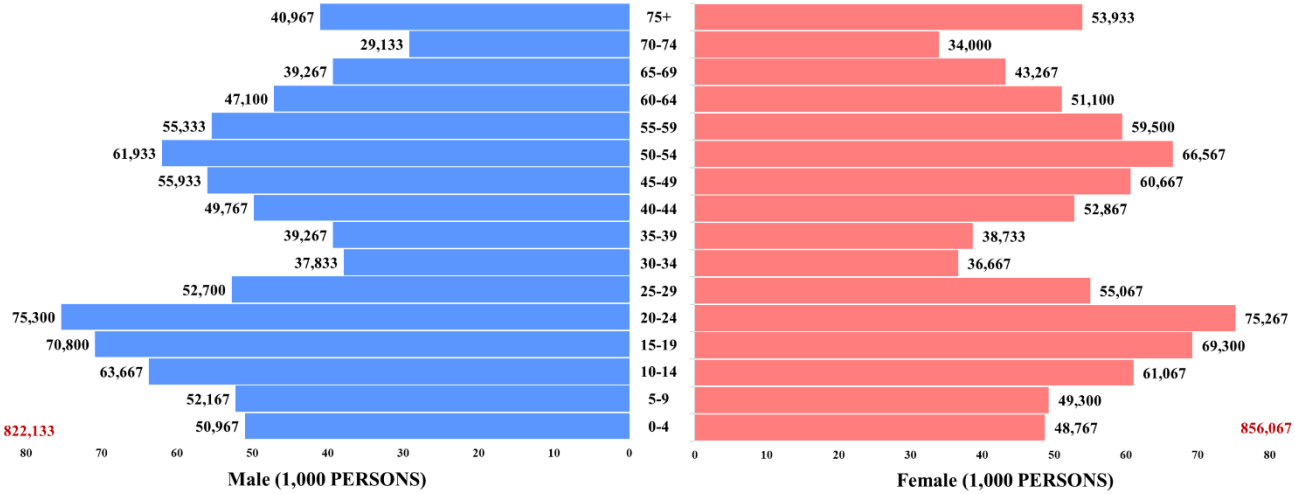
3.6 Ubon Ratchathani Cancer Registry

Registration area

Ubon Ratchathani is one of the northeastern provinces of Thailand, and the country's easternmost. It covers an area of 15,774 square kilometers. It's about 600 kilometers away from Bangkok. Neighboring Provinces are (from west clockwise) Si Sa Ket, Yasothon and Amnat Charoen. To the north and east it borders Laos, to the south is Cambodia. The province is subdivided into 25 districts, subdivided into 219 sub-districts and 2,704 villages.

There were 1,678,200 people in the year 2020. Most are engaged in activities related to agriculture. They usually dwell in groups of houses, speaking their own dialects.

Population pyramid Ubon Ratchathani
estimated population in 2020 (2019 – 2021)



Cancer care facilities

Ubon Ratchathani Province provides comprehensive services for cancer diagnosis and treatment. This includes a provincial hospital (Sunpasitthiprasong Hospital), one military hospital and three community hospitals capable of performing surgeries and administering chemotherapy for cancer patients.

There is only one government cancer hospital (Ubon Ratchathani Cancer Hospital) delivers complete cancer care, covering diagnosis, surgical procedures, radiation therapy, interventional radiology, chemotherapy and palliative care. It supports patients both within the province and from nearby areas, such as Health Region 10.

The Ubon Ratchathani committee was established to facilitate the referral system between regional hospitals, cancer hospital and community hospitals.

Advanced radiation therapy techniques are used, such as 3D brachytherapy, 3DCRT, IMRT/ VMAT, SRS/ SRT and SBRT with approximately 2,200 cancer patients treated annually. In addition, there are three private hospitals capable of performing surgeries and administering chemotherapy and one that provides radiation therapy.

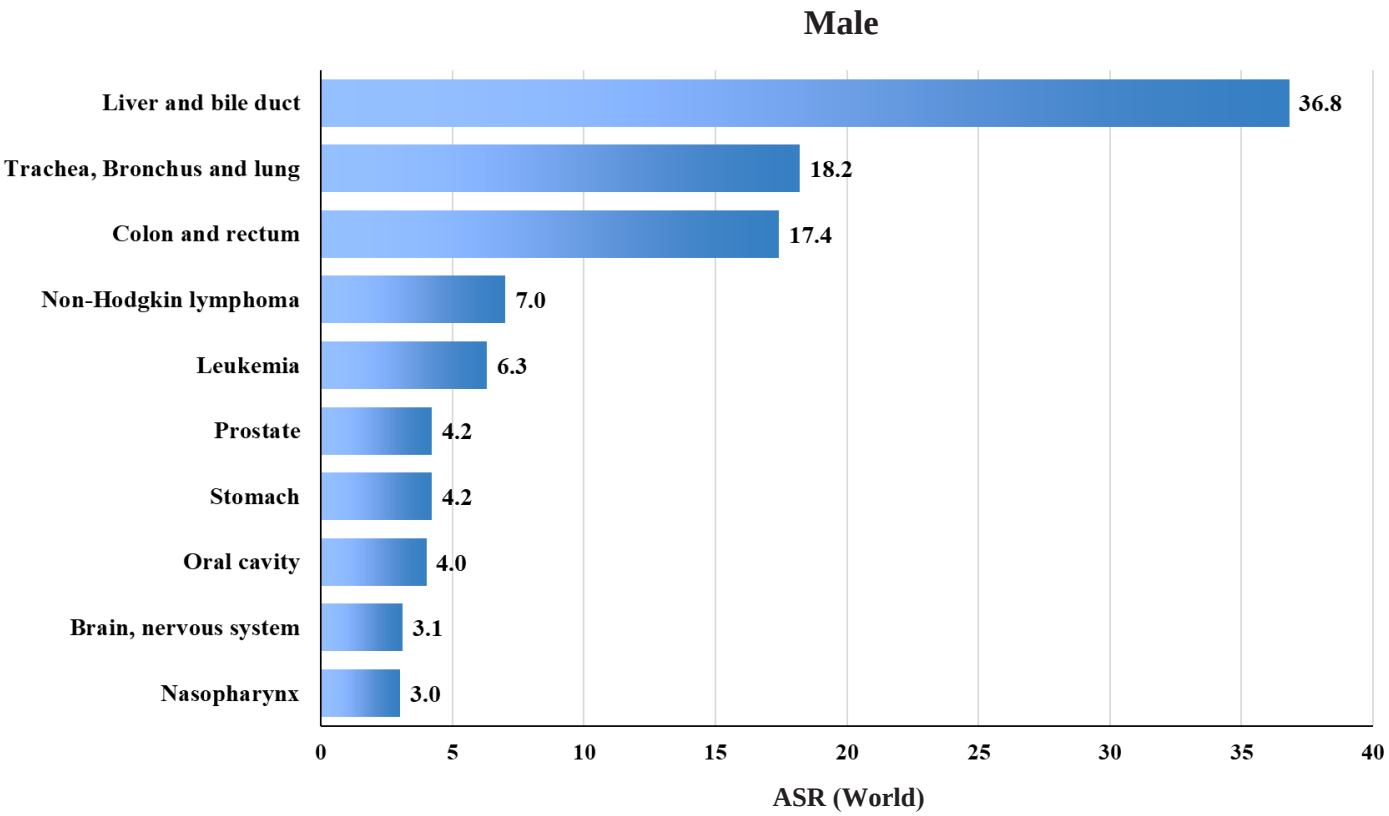
Registry procedures

The population–based cancer registry of Ubon Ratchathani was set up at Ubon Ratchathani Cancer Hospital. The sources of data are from all community hospitals, Sunpasitthiprasong Hospital, Ubon Ratchathani Cancer Hospital, the military hospital and private hospitals.

Summary of results

New cases registered in 2020, 1,712 were males and 1,737 were females, making 3,449 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 136.6 per 100,000, with liver and bile duct cancer ranking first (ASR = 36.8) followed by lung (ASR = 18.2) and colon and rectum (ASR = 17.4). The ASR of all cancer sites in females was 137.8 per 100,000, the three leading cancer sites in females being breast (ASR = 31.6) liver and bile duct (ASR = 13.9) and colon and rectum (ASR = 12.9).

Figure 3.6.1 Leading cancer in Ubon Ratchathani (mean annual ASR 2019-2021)



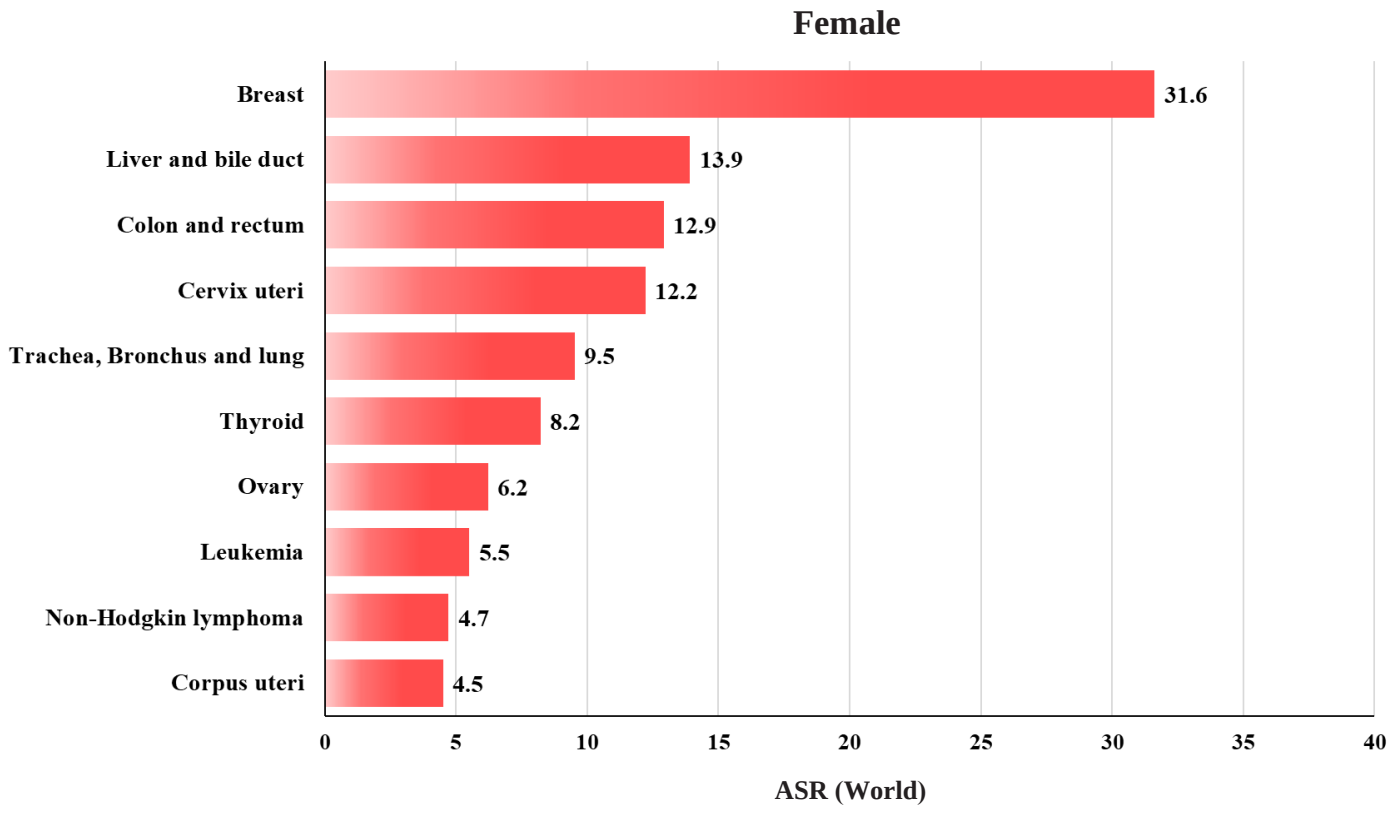


Table 3.6.1 Ubon Ratchathani (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	2.3	0.0	0.2	0.2	C00	0.0	0.0
Tongue	18	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.5	4.0	3.6	7.5	3.0	2.1	5.1	8.0	3.3	2.2	1.6	C01-02	0.1	0.2
Mouth	19	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.4	0.7	6.0	2.2	4.8	6.4	3.4	10.3	4.9	2.3	1.6	C03-06	0.1	0.2
Salivary glands	7	0.0	0.0	0.0	0.0	0.0	0.6	0.9	0.8	0.0	1.8	0.5	2.4	0.7	2.5	4.6	2.4	0.9	0.6	C07-08	0.0	0.1
Tonsil	10	0.0	1.3	0.0	0.0	0.4	0.0	0.0	0.0	2.7	1.8	0.5	2.4	2.8	5.1	5.7	0.8	1.3	1.0	C09	0.1	0.1
Other oropharynx	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.5	1.8	1.4	0.0	2.3	0.0	0.4	0.3	C10	0.0	0.0
Nasopharynx	33	0.0	0.0	0.0	0.5	0.9	0.6	1.8	4.2	6.0	7.2	8.1	7.8	9.9	7.6	12.6	4.9	4.1	3.0	C11	0.2	0.3
Hypopharynx	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.3	2.4	2.2	3.0	3.5	3.4	4.6	1.6	1.3	0.9	C12-13	0.1	0.1
Pharynx unspecified	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.5	0.6	0.7	0.0	1.1	1.6	0.3	0.2	C14	0.0	0.0
Oesophagus	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.7	7.7	7.0	8.4	12.0	5.9	5.7	1.6	3.2	2.3	C15	0.2	0.3
Stomach	52	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.5	9.4	6.0	7.5	10.8	13.4	24.6	25.2	22.0	6.4	4.2	C16	0.3	0.5
Small intestine	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.2	1.1	0.6	3.5	0.0	1.1	1.6	0.6	0.4	C17	0.0	0.0
Colon	123	0.0	0.0	0.0	0.0	0.4	2.5	4.4	9.3	8.7	13.1	14.0	30.1	38.2	53.5	57.2	56.1	14.9	9.7	C18	0.6	1.2
Rectum	93	0.0	0.0	0.0	0.0	0.0	1.3	5.3	3.4	4.7	10.7	16.7	26.5	36.8	34.8	41.2	30.9	11.3	7.4	C19-20	0.5	0.9
Anus	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.1	0.6	1.4	0.8	2.3	1.6	0.4	0.3	C21	0.0	0.0
Liver and bile duct	483	0.0	0.6	0.0	0.0	0.4	1.3	4.4	19.5	25.5	58.4	87.7	118.1	169.1	170.6	227.7	230.3	58.7	36.8	C22,C24	2.4	4.4
Gallbladder	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.2	1.1	1.8	2.1	5.9	10.3	17.9	2.0	1.1	C23	0.0	0.1
Pancreas	23	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	3.3	3.0	5.4	3.0	5.7	11.9	9.2	11.4	2.8	1.8	C25	0.1	0.2
Nose, sinuses etc.	8	0.0	0.0	0.0	0.0	0.4	0.0	0.9	1.7	2.0	0.0	0.0	3.6	2.1	1.7	4.6	2.4	1.0	0.7	C30-31	0.1	0.1
Larynx	25	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.3	5.4	4.8	6.6	5.7	3.4	5.7	17.9	3.0	2.0	C32	0.1	0.2
Trachea, Bronchus and lung	244	0.0	0.0	0.0	0.5	0.0	1.3	7.0	11.9	9.4	18.5	33.9	43.4	82.1	91.7	139.6	147.3	29.7	18.2	C33-34	1.0	2.2
Other thoracic organs	12	0.7	0.0	0.0	1.4	0.9	1.3	1.8	0.0	1.3	0.6	0.5	3.0	1.4	3.4	4.6	4.9	1.4	1.1	C37-38	0.1	0.1
Bone	13	0.0	0.6	0.5	0.5	0.4	0.6	0.0	0.8	1.3	2.4	1.6	1.8	4.2	6.8	4.6	1.6	1.5	1.2	C40-C41	0.1	0.1
Melanoma of skin	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.1	0.6	1.4	0.8	1.1	4.9	0.6	0.3	C43	0.0	0.0
Other skin	27	0.0	0.0	0.5	0.5	0.0	1.3	3.5	0.8	2.7	1.8	3.2	6.0	5.7	10.2	8.0	17.1	3.2	2.2	C44	0.1	0.2
Mesothelioma	2	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.5	0.0	1.4	0.0	0.0	0.8	0.2	0.2	C45	0.0	0.0
Kaposi's sarcoma	1	0.0	0.0	0.0	0.0	0.0	0.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C46	0.0	0.0
Connective tissue	7	0.7	0.6	0.0	0.5	0.4	0.0	0.0	0.0	0.7	0.0	1.1	0.6	1.4	4.2	2.3	2.4	0.8	0.6	C47,C49	0.0	0.1
Breast	4	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.7	1.2	0.5	1.2	0.7	1.7	0.0	1.6	0.5	0.3	C50	0.0	0.0
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51	0.0	0.0
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52	0.0	0.0
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53	0.0	0.0
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54	0.0	0.0
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55	0.0	0.0
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56	0.0	0.0
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57	0.0	0.0
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58	0.0	0.0
Penis	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.7	0.6	1.6	4.2	4.2	0.8	6.9	1.6	1.2	0.8	C60	0.1	0.1
Prostate	62	0.0	0.6	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	3.2	3.6	14.9	36.5	49.2	53.7	7.6	4.2	C61	0.1	0.5
Testis	7	1.3	0.6	0.5	0.0	1.3	0.6	6.2	1.7	0.0	0.6	0.5	1.2	0.0	0.0	0.0	0.0	0.9	1.0	C62	0.1	0.1
Other male genital organs	2	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.4	0.2	0.1	C63	0.0	0.0
Kidney	18	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0	2.4	4.3	6.0	7.8	5.9	2.3	3.3	2.1	1.6	C64	0.1	0.2
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.8	0.0	0.8	0.1	0.1	C65	0.0	0.0
Ureter	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.5	0.6	1.4	0.0	0.0	0.0	0.2	0.1	C66	0.0	0.0
Bladder	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	3.6	3.8	7.2	12.7	13.6	28.6	27.7	4.8	2.8	C67	0.1	0.4
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C68	0.0	0.0
Eye	1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	C69	0.0	0.0
Brain, nervous system	33	0.0	1.3	2.6	0.5	0.4	2.5	2.6	3.4	3.3	7.7	4.3	6.6	6.4	13.6	8.0	8.1	4.0	3.1	C70-72	0.2	0.3
Thyroid	12	0.0	0.0	0.0	0.5	0.4	0.0	0.0	1.7	2.0	2.4	1.1	1.8	5.0	0.8	2.3	8.1	1.5	1.0	C73	0.1	0.1
Adrenal gland	0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	C74	0.0	0.0
Other endocrine	2	0.0	0.0	0.5	0.5	0.0	0.6	0.0	0.0	1.3	0.0	0.0	0.0	0.7	0.8	0.0	0.0	0.3	0.3	C75	0.0	0.0
Hodgkin disease	7	0.7	0.6	0.0	0.9	0.0	1.9	0.9	2.5	0.7	1.2	1.1	2.4	0.7	0.0	0.0	0.8	0.9	0.9	C81	0.1	0.1
Non-Hodgkin lymphoma	85	1.3	1.9	0.5	0.9	2.2	3.8	4.4	3.4	4.0	12.5	11.3	21.7	17.7	28.0	43.5	38.2	10.3	7.0	C82-85,C96	0.4	0.8
Multiple myeloma	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.0	3.2	4.8	5.7	5.1	11.4	4.1	2.0	1.3	C90	0.1	0.2
Lymphoid leukemia	11	2.0	3.8	1.0	0.5	0.4	1.3	0.9	0.8	1.3	0.6	2.2	1.2	0.7	1.7	4.6	0.8	1.4	1.5	C91	0.1	0.1
Myeloid leukemia	36	1.3	1.9	1.0	0.9	0.9	1.9	2.6	5.1	8.0	4.8	4.3	4.8	7.1	8.5	10.3	15.5	4.3	3.4	C92-94	0.2	0.3
Leukemia unspecified	16	0.7	0.6	0.5	0.0	0.4	0.6	1.8	1.7	2.7	3.0	0.5	1.8	1.4	2.5	9.2	9.8	1.9	1.4	C95	0.1	0.1
Myelodysplastic disease	6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	3.6	0.0	1.7	2.3	4.1	0.7	0.4	D45-D47	0.0	0.0
Other and unspecified	69	0.7	0.6	0.0	0.0	0.9	1.9	2.6	2.5	4.0	6.6	9.1	15.1	17.7	22.9	35.5	41.5	8.3	5.3	O&U	0.3	0.6
All sites	**1,712**	**14.4**	**16.0**	**7.9**	**8.9**	**11.5**	**27.8**	**56.4**	**90.0**	**127.9**	**206.2**	**262.6**	**379.5**	**520.2**	**602.7**	**816.9**	**814.5**	**208.2**	**136.6**	**ALL**	**8.6**	**15.7**

Table 3.6.2 Ubon Ratchathani (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	15	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.9	0.0	0.0	1.5	1.1	1.3	3.9	12.7	11.1	1.8	0.9	C00	0.0	0.1
Tongue	11	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.3	2.2	1.0	1.7	4.6	3.1	4.9	1.9	1.2	0.8	C01-02	0.1	0.1
Mouth	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.5	2.5	1.7	5.2	13.1	10.8	24.7	3.4	1.6	C03-06	0.1	0.2
Salivary glands	6	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.9	1.3	1.1	0.5	1.7	1.3	2.3	2.9	0.6	0.7	0.5	C07-08	0.0	0.1
Tonsil	2	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.6	0.0	0.0	1.0	0.0	0.2	0.1	C09	0.0	0.0
Other oropharynx	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C10	0.0	0.0
Nasopharynx	13	0.0	0.0	0.0	0.0	0.0	0.6	0.9	0.0	0.6	1.1	3.0	3.4	5.2	3.1	4.9	2.5	1.5	0.9	C11	0.1	0.1
Hypopharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.3	0.0	0.0	0.0	0.1	0.1	C12-13	0.0	0.0
Pharynx unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.0	0.6	0.1	0.1	C14	0.0	0.0
Oesophagus	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	1.0	0.0	0.7	0.8	2.9	1.2	0.4	0.2	C15	0.0	0.0
Stomach	35	0.0	0.0	0.0	0.0	0.0	2.4	2.7	4.3	5.0	5.5	5.5	6.7	7.2	13.1	12.7	6.2	4.0	2.9	C16	0.2	0.3
Small intestine	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.3	0.8	2.0	0.0	0.3	0.2	C17	0.0	0.0
Colon	104	0.0	0.0	0.0	0.0	0.9	2.4	6.4	4.3	5.7	12.6	20.0	23.5	26.1	30.8	28.4	43.9	12.1	7.4	C18	0.5	0.8
Rectum	74	0.0	0.0	0.0	0.0	0.4	1.2	3.6	4.3	5.0	8.2	16.0	14.6	22.8	23.1	29.4	21.0	8.6	5.4	C19-20	0.4	0.6
Anus	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.5	0.0	0.0	1.5	0.0	1.2	0.2	0.1	C21	0.0	0.0
Liver and bile duct	219	0.0	0.7	0.0	0.0	0.0	0.0	3.6	2.6	5.0	13.7	23.5	45.9	66.5	83.2	105.9	103.8	25.5	13.9	C22,C24	0.8	1.8
Gallbladder	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.5	0.6	1.3	6.2	4.9	12.4	1.5	0.7	C23	0.0	0.1
Pancreas	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.2	5.0	1.7	3.9	4.6	4.9	5.6	1.8	1.0	C25	0.1	0.1
Nose, sinuses etc.	3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.5	0.0	0.0	0.7	1.5	1.0	2.5	0.4	0.2	C30-31	0.0	0.0
Larynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.6	0.7	0.0	2.0	0.0	0.2	0.1	C32	0.0	0.0
Trachea, Bronchus and lung	139	0.0	0.0	0.0	0.0	1.3	0.0	4.5	1.7	8.2	17.0	24.0	31.4	36.5	46.2	56.9	51.9	16.2	9.5	C33-34	0.6	1.1
Other thoracic organs	8	0.0	0.0	0.0	0.0	0.9	0.6	0.0	0.9	1.9	1.1	0.5	1.7	2.6	0.8	2.0	2.5	0.9	0.7	C37-38	0.1	0.1
Bone	12	0.7	0.7	1.1	1.4	0.4	0.0	0.0	0.9	0.6	0.5	1.0	1.1	1.3	0.8	4.9	7.4	1.4	1.0	C40-C41	0.0	0.1
Melanoma of skin	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.5	1.5	1.1	0.0	0.8	2.0	3.1	0.6	0.3	C43	0.0	0.0
Other skin	26	0.7	0.0	0.5	0.0	1.3	1.2	0.0	2.6	1.3	2.7	3.0	2.8	3.3	6.9	11.8	15.5	3.1	1.9	C44	0.1	0.2
Mesothelioma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C45	0.0	0.0
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46	0.0	0.0
Connective tissue	8	0.0	0.0	0.0	0.0	0.0	0.6	0.9	0.9	2.5	2.2	0.5	2.2	0.7	3.1	1.0	1.2	0.9	0.7	C47,C49	0.1	0.1
Breast	366	0.0	0.0	0.5	0.0	0.9	4.2	23.6	53.4	79.4	95.1	101.7	96.9	84.8	64.7	56.9	32.1	42.7	31.6	C50	2.7	3.3
Vulva	6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.6	0.0	0.0	1.7	0.7	2.3	2.0	3.1	0.7	0.4	C51	0.0	0.0
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52	0.0	0.0
Cervix uteri	132	0.0	0.0	0.0	0.0	1.8	4.2	23.6	27.5	25.2	34.6	30.0	30.8	23.5	22.3	16.7	17.3	15.5	12.2	C53	1.0	1.2
Corpus uteri	57	0.0	0.0	0.0	0.0	0.4	0.6	1.8	5.2	6.9	10.4	14.5	12.3	20.2	13.1	16.7	8.7	6.6	4.5	C54	0.4	0.5
Uterus unspecified	11	0.0	0.0	0.0	0.0	0.0	0.6	0.9	2.6	1.3	6.6	1.5	1.7	1.3	2.3	1.0	1.2	1.3	1.0	C55	0.1	0.1
Ovary	70	0.0	0.0	1.1	1.9	3.5	4.2	2.7	9.5	13.2	13.2	15.0	21.8	14.4	16.9	7.8	5.6	8.2	6.2	C56	0.5	0.6
Other female genital organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	C57	0.0	0.0
Placenta	3	0.0	0.0	0.0	0.0	0.0	0.6	1.8	0.0	0.6	0.5	1.5	0.0	0.0	0.0	0.0	0.0	0.3	0.3	C58	0.0	0.0
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60	0.0	0.0
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61	0.0	0.0
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62	0.0	0.0
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63	0.0	0.0
Kidney	7	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.9	0.6	0.0	1.5	1.7	2.0	2.3	3.9	0.6	0.8	0.5	C64	0.0	0.1
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.0	0.0	0.1	0.0	C65	0.0	0.0
Ureter	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.6	0.0	0.0	0.0	1.2	0.2	0.1	C66	0.0	0.0
Bladder	8	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.3	0.0	1.0	0.6	1.3	3.1	2.0	5.6	0.9	0.5	C67	0.0	0.1
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	C68	0.0	0.0
Eye	2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.8	0.0	0.6	0.2	0.2	C69	0.0	0.0
Brain, nervous system	47	2.7	1.4	0.0	1.4	1.8	1.2	1.8	5.2	7.6	14.8	14.0	7.8	7.8	6.9	2.9	8.0	5.5	4.4	C70-72	0.3	0.4
Thyroid	81	0.0	0.0	2.2	1.9	5.3	9.1	17.3	17.2	17.7	18.7	15.5	11.8	11.7	10.8	13.7	6.2	9.5	8.2	C73	0.6	0.8
Adrenal gland	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.1	0.0	C74	0.0	0.0
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C75	0.0	0.0
Hodgkin disease	5	0.0	0.0	0.5	0.0	1.3	0.6	0.0	1.7	1.9	0.0	0.5	0.6	1.3	0.0	1.0	0.6	0.6	0.6	C81	0.0	0.0
Non-Hodgkin lymphoma	60	1.4	1.4	0.5	0.5	0.9	2.4	4.5	1.7	6.9	7.1	5.5	9.5	13.0	23.9	32.4	16.1	7.0	4.7	C82-85,C96	0.3	0.6
Multiple myeloma	16	0.0	0.0	0.0	0.5	0.0	0.0	0.9	2.6	0.6	1.6	3.5	3.9	5.9	3.1	4.9	3.7	1.8	1.2	C90	0.1	0.1
Lymphoid leukemia	11	4.8	3.4	3.3	1.0	0.9	0.6	0.0	0.9	1.9	0.0	0.5	1.1	0.0	0.0	1.0	1.9	1.3	1.7	C91	0.1	0.1
Myeloid leukemia	24	4.8	0.0	2.2	0.0	0.9	0.6	1.8	4.3	3.8	3.3	3.0	3.4	3.9	3.1	5.9	7.4	2.8	2.5	C92-94	0.2	0.2
Leukemia unspecified	15	0.0	0.7	0.0	0.5	0.4	0.0	2.7	2.6	1.3	1.6	0.5	2.2	4.6	6.2	2.9	5.6	1.8	1.3	C95	0.1	0.1
Myelodysplastic disease	5	0.0	0.0	0.0	0.0	0.4	0.6	0.0	0.0	0.0	1.1	1.5	0.6	1.3	0.8	2.0	1.9	0.6	0.4	D45-D47	0.0	0.0
Other and unspecified	58	0.0	0.0	0.0	0.5	0.4	0.0	0.0	1.7	5.0	7.7	4.5	11.2	14.4	14.6	23.5	33.4	6.7	3.7	O&U	0.2	0.4
All sites	**1,737**	**16.4**	**8.1**	**12.0**	**10.6**	**24.8**	**39.3**	**110.0**	**164.4**	**218.2**	**292.3**	**332.5**	**364.7**	**407.7**	**446.8**	**508.8**	**482.1**	**202.9**	**137.8**	**ALL**	**10.0**	**14.8**

Table 3.6.3 Mean annual incidence, Ubon Ratchathani, 2019-2021

Site	Male						Female						ICD-10
	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	
Lip	1	0.1	0.2	0.2	0.0	0.0	15	0.9	1.8	0.9	0.0	0.1	C00
Tongue	18	1.1	2.2	1.6	0.1	0.2	11	0.6	1.2	0.8	0.1	0.1	C01-02
Mouth	19	1.1	2.3	1.6	0.1	0.2	29	1.7	3.4	1.6	0.1	0.2	C03-06
Salivary glands	7	0.4	0.9	0.6	0.0	0.1	6	0.4	0.7	0.5	0.0	0.1	C07-08
Tonsil	10	0.6	1.3	1.0	0.1	0.1	2	0.1	0.2	0.1	0.0	0.0	C09
Other oropharynx	3	0.2	0.4	0.3	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C10
Nasopharynx	33	1.9	4.1	3.0	0.2	0.3	13	0.7	1.5	0.9	0.1	0.1	C11
Hypopharynx	10	0.6	1.3	0.9	0.1	0.1	1	0.1	0.1	0.1	0.0	0.0	C12-13
Pharynx unspecified	2	0.1	0.3	0.2	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C14
Oesophagus	26	1.5	3.2	2.3	0.2	0.3	3	0.2	0.4	0.2	0.0	0.0	C15
Stomach	52	3.1	6.4	4.2	0.3	0.5	35	2.0	4.0	2.9	0.2	0.3	C16
Small intestine	5	0.3	0.6	0.4	0.0	0.0	2	0.1	0.3	0.2	0.0	0.0	C17
Colon	123	7.2	14.9	9.7	0.6	1.2	104	6.0	12.1	7.4	0.5	0.8	C18
Rectum	93	5.4	11.3	7.4	0.5	0.9	74	4.3	8.6	5.4	0.4	0.6	C19-20
Anus	4	0.2	0.4	0.3	0.0	0.0	2	0.1	0.2	0.1	0.0	0.0	C21
Liver and bile duct	483	28.2	58.7	36.8	2.4	4.4	219	12.6	25.5	13.9	0.8	1.8	C22,C24
Gallbladder	16	1.0	2.0	1.1	0.0	0.1	13	0.7	1.5	0.7	0.0	0.1	C23
Pancreas	23	1.4	2.8	1.8	0.1	0.2	15	0.9	1.8	1.0	0.1	0.1	C25
Nose, sinuses etc.	8	0.5	1.0	0.7	0.1	0.1	3	0.2	0.4	0.2	0.0	0.0	C30-31
Larynx	25	1.5	3.0	2.0	0.1	0.2	2	0.1	0.2	0.1	0.0	0.0	C32
Trachea, Bronchus and lung	244	14.3	29.7	18.2	1.0	2.2	139	8.0	16.2	9.5	0.6	1.1	C33-34
Other thoracic organs	12	0.7	1.4	1.1	0.1	0.1	8	0.5	0.9	0.7	0.1	0.1	C37-38
Bone	13	0.7	1.5	1.2	0.1	0.1	12	0.7	1.4	1.0	0.0	0.1	C40-C41
Melanoma of skin	5	0.3	0.6	0.3	0.0	0.0	5	0.3	0.6	0.3	0.0	0.0	C43
Other skin	27	1.6	3.2	2.2	0.1	0.2	26	1.5	3.1	1.9	0.1	0.2	C44
Mesothelioma	2	0.1	0.2	0.2	0.0	0.0	1	0.0	0.1	0.1	0.0	0.0	C45
Kaposi's sarcoma	1	0.0	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	7	0.4	0.8	0.6	0.0	0.1	8	0.5	0.9	0.7	0.1	0.1	C47,C49
Breast	4	0.2	0.5	0.3	0.0	0.0	366	21.1	42.7	31.6	2.7	3.3	C50
Vulva							6	0.3	0.7	0.4	0.0	0.0	C51
Vagina							0	0.0	0.0	0.0	0.0	0.0	C52
Cervix uteri							132	7.6	15.5	12.2	1.0	1.2	C53
Corpus uteri							57	3.3	6.6	4.5	0.4	0.5	C54
Uterus unspecified							11	0.6	1.3	1.0	0.1	0.1	C55
Ovary							70	4.0	8.2	6.2	0.5	0.6	C56
Other female genital organs							1	0.1	0.2	0.1	0.0	0.0	C57
Placenta							3	0.0	0.3	0.3	0.0	0.0	C58
Penis	10	0.6	1.2	0.8	0.1	0.1							C60
Prostate	62	3.6	7.6	4.2	0.1	0.5							C61
Testis	7	0.4	0.9	1.0	0.1	0.1							C62
Other male genital organs	2	0.1	0.2	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C63
Kidney	18	1.0	2.1	1.6	0.1	0.2	7	0.4	0.8	0.5	0.0	0.1	C64
Renal pelvis	1	0.1	0.1	0.1	0.0	0.0	1	0.0	0.1	0.0	0.0	0.0	C65
Ureter	2	0.1	0.2	0.1	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C66
Bladder	40	2.3	4.8	2.8	0.1	0.4	8	0.4	0.9	0.5	0.0	0.1	C67
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C68
Eye	1	0.1	0.1	0.2	0.0	0.0	2	0.1	0.2	0.2	0.0	0.0	C69
Brain, nervous system	33	1.9	4.0	3.1	0.2	0.3	47	2.7	5.5	4.4	0.3	0.4	C70-72
Thyroid	12	0.7	1.5	1.0	0.1	0.1	81	4.7	9.5	8.2	0.6	0.8	C73
Adrenal gland	0	0.0	0.0	0.1	0.0	0.0	1	0.0	0.1	0.0	0.0	0.0	C74
Other endocrine	2	0.1	0.3	0.3	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	7	0.4	0.9	0.9	0.1	0.1	5	0.3	0.6	0.6	0.0	0.0	C81
Non-Hodgkin lymphoma	85	5.0	10.3	7.0	0.4	0.8	60	3.5	7.0	4.7	0.3	0.6	C82-85,C96
Multiple myeloma	17	1.0	2.0	1.3	0.1	0.2	16	0.9	1.8	1.2	0.1	0.1	C90
Lymphoid leukemia	11	0.7	1.4	1.5	0.1	0.1	11	0.7	1.3	1.7	0.1	0.1	C91
Myeloid leukemia	36	2.1	4.3	3.4	0.2	0.3	24	1.4	2.8	2.5	0.2	0.2	C92-94
Leukemia unspecified	16	0.9	1.9	1.4	0.1	0.1	15	0.9	1.8	1.3	0.1	0.1	C95
Myelodysplastic disease	6	0.3	0.7	0.4	0.0	0.0	5	0.3	0.6	0.4	0.0	0.0	D45-D47
Other and unspecified	69	4.0	8.3	5.3	0.3	0.6	58	3.3	6.7	3.7	0.2	0.4	O&U
All sites	**1,712**	**100.0**	**208.2**	**136.6**	**8.6**	**15.7**	**1,737**	**100.0**	**202.9**	**137.8**	**10.0**	**14.8**	**All**

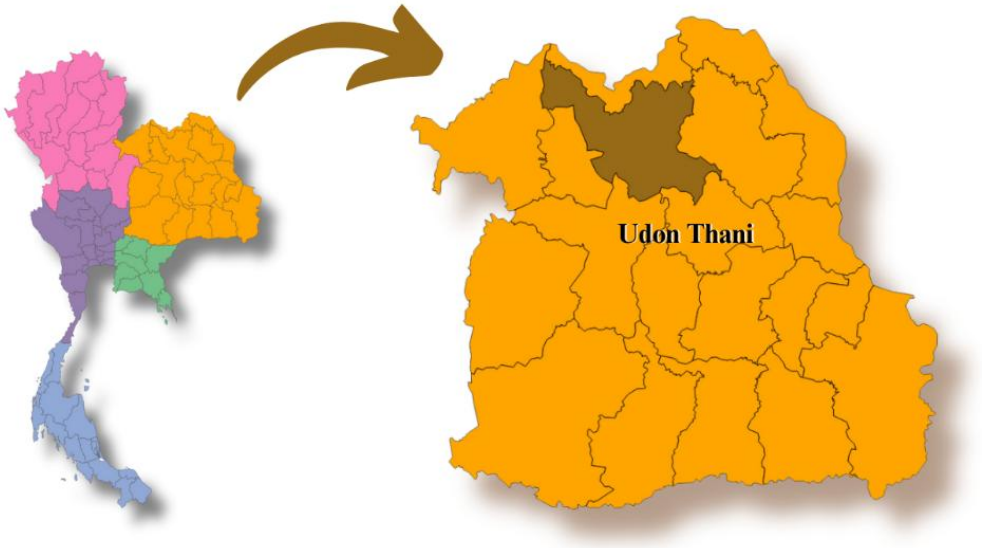
Table 3.6.4 Percentage of morphologically verified and death certificate only cases, Ubon Ratchathani

Site	Male			Female			ICD-10
	Cases 3 Year	%MV	%DCO	Cases 3 Year	%MV	%DCO	
Oral cavity	137	91.2	4.4	183	89.1	1.6	C00-C08
Oropharynx	48	77.1	10.4	8	37.5	12.5	C09-C10,C14
Nasopharynx	100	96.0	2.0	38	86.8	0.0	C11
Hypopharynx	31	100.0	0.0	3	100.0	0.0	C12-C13
Esophagus	79	87.3	6.3	10	80.0	20.0	C15
Stomach	157	81.5	10.2	104	69.2	5.8	C16
Small intestine	14	85.7	7.1	7	85.7	0.0	C17
Colon and rectum	658	93.8	2.3	540	86.9	1.5	C18-C21
Liver and bile duct	1,449	49.1	17.5	656	26.4	18.8	C22,C24
Gallbladder	49	59.2	18.4	39	46.2	12.8	C23
pancrease	70	65.7	11.4	45	48.9	4.4	C25
Nose,sinuses etc	25	92.0	0.0	10	90.0	0.0	C30-C31
Larynx	75	90.7	2.7	6	66.7	16.7	C32
Trachea, brochus and lung	732	81.8	10.2	416	73.1	7.5	C33-C34
Other thoracic organs	35	88.6	2.9	24	95.8	0.0	C37-C38
Bone	38	42.1	21.1	35	34.3	28.6	C40-C41
Melanoma of skin	14	100.0	0.0	15	100.0	0.0	C43
Other skin	80	82.5	0.0	79	89.9	0.0	C44
Mesothelioma	5	100.0	0.0	2	100.0	0.0	C45
Kaposi sarcoma	2	100.0	0.0	0	0.0	0.0	C46
Connective and soft tissue	20	95.0	0.0	24	100.0	0.0	C47,C49
Breast	12	91.7	8.3	1,097	93.4	0.6	C50
Vulva				17	88.2	0.0	C51
Vagina				1	100.0	0.0	C52
Cervix uteri				397	89.2	1.3	C53
Corpus uteri				170	92.4	1.8	C54
Uterus unspecified				33	45.5	12.1	C55
Ovary				210	81.9	4.3	C56
Other female genital organs				4	100.0	0.0	C57
Placenta				8	100.0	0.0	C58
Penis	29	75.9	0.0				C60
Prostate	187	85.0	4.3				C61
Testis	21	95.2	0.0				C62
Other male genital organs	5	40.0	0.0				C63
Kidney	53	83.0	7.5	20	60.0	5.0	C64
Renal pelvis	3	66.7	0.0	2	100.0	0.0	C65
Ureter	5	100.0	0.0	4	75.0	0.0	C66
Bladder	119	89.9	4.2	23	69.6	0.0	C67
Other urinary organs	0	0.0	0.0	1	0.0	100.0	C68
Eye	3	66.7	0.0	5	0.0	0.0	C69
Brain, nervous system	99	74.7	8.1	141	65.2	8.5	C70-C72
Thyroid	36	94.4	0.0	244	91.8	0.0	C73
Adrenal gland	1	100.0	0.0	2	50.0	0.0	C74
Other endocrine	7	100.0	0.0	0	0.0	0.0	C75
Hodgkin disease	22	100.0	0.0	16	100.0	0.0	C81
Non-Hodgkin lymphoma	255	100.0	0.0	181	100.0	0.0	C82-C85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	50	100.0	0.0	47	100.0	0.0	C90
Leukemia	188	100.0	0.0	153	98.7	0.0	C91-C95
Myelodysplastic	17	94.1	0.0	16	56.3	0.0	D45-D47
Other and unspecified	206	62.4	28.3	174	28.3	30.6	O&U
All sites	**5,136**	**75.8**	**9.5**	**5,210**	**76.5**	**5.5**	**All**
All sites without liver	**3,687**	**86.3**	**6.4**	**4,554**	**83.8**	**3.6**	**All**

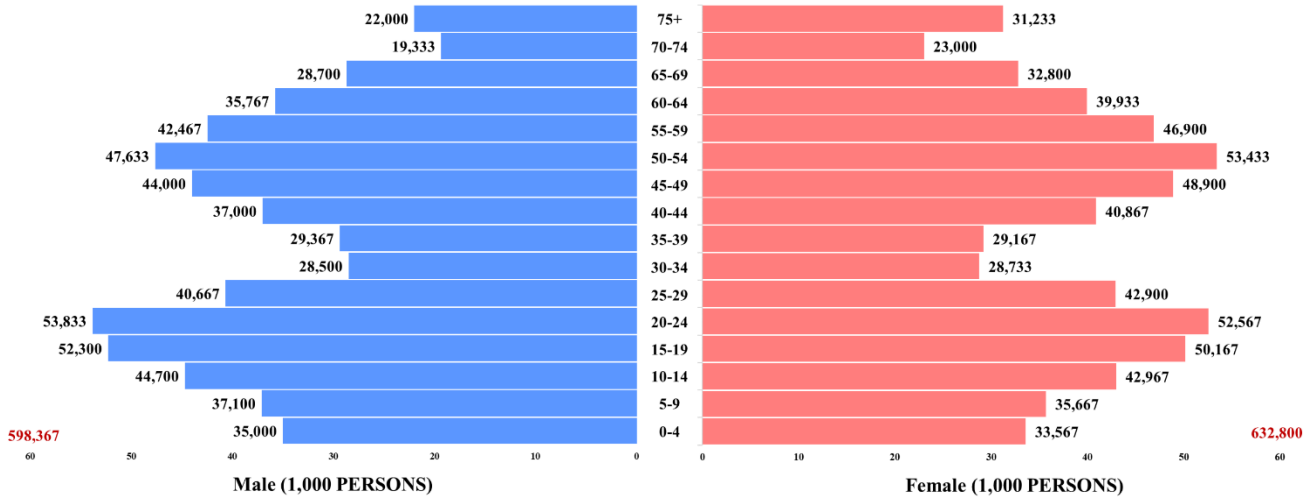
3.7 Udon Thani Cancer Registry

Registration area

Udon Thani cancer registry covers the population of Udon Thani province in the northeastern region of Thailand, covering an area of about 11,730 square kilometers. It is located 564 kilometers to the northeast of Bangkok and for administrative purposes is divided into 20 districts. The estimated population in the year 2020 was 1,231,167. About 95% of the population are Buddhists. The remainder are mainly Christians and Moslems.



Population pyramid Udon Thani
estimated population in 2020 (2019 – 2021)



Cancer care facilities

Community hospitals are provided in all 20 districts of Udon Thani. One cancer center (Udon Thani regional cancer center) is situated in Mueang district which is the center of the province. The Udon Thani provincial hospital and Prajaksilapakom Military Hospital are the other two large hospitals which have facilities for cancer surgery and chemotherapy. The Udon Thani regional cancer center is the only place that provides radiotherapy services in the province. Patients suspected of having cancer in the health care system and community hospitals are referred to the Udon Thani provincial hospital, Udon Thani regional cancer center or Srinagarind hospital, Khon Kaen.

Registry procedures

The population-based cancer registry of Udon Thani are actively collected for cancer cases from two large hospitals (Udon Thani provincial hospital and Prajaksilapakom Military Hospital), one cancer center (Udon Thani cancer center) and passively collected from community hospitals, private hospital in Udon Thani, Srinagarind hospital in Khon Kaen and the National Cancer Institute in Bangkok.

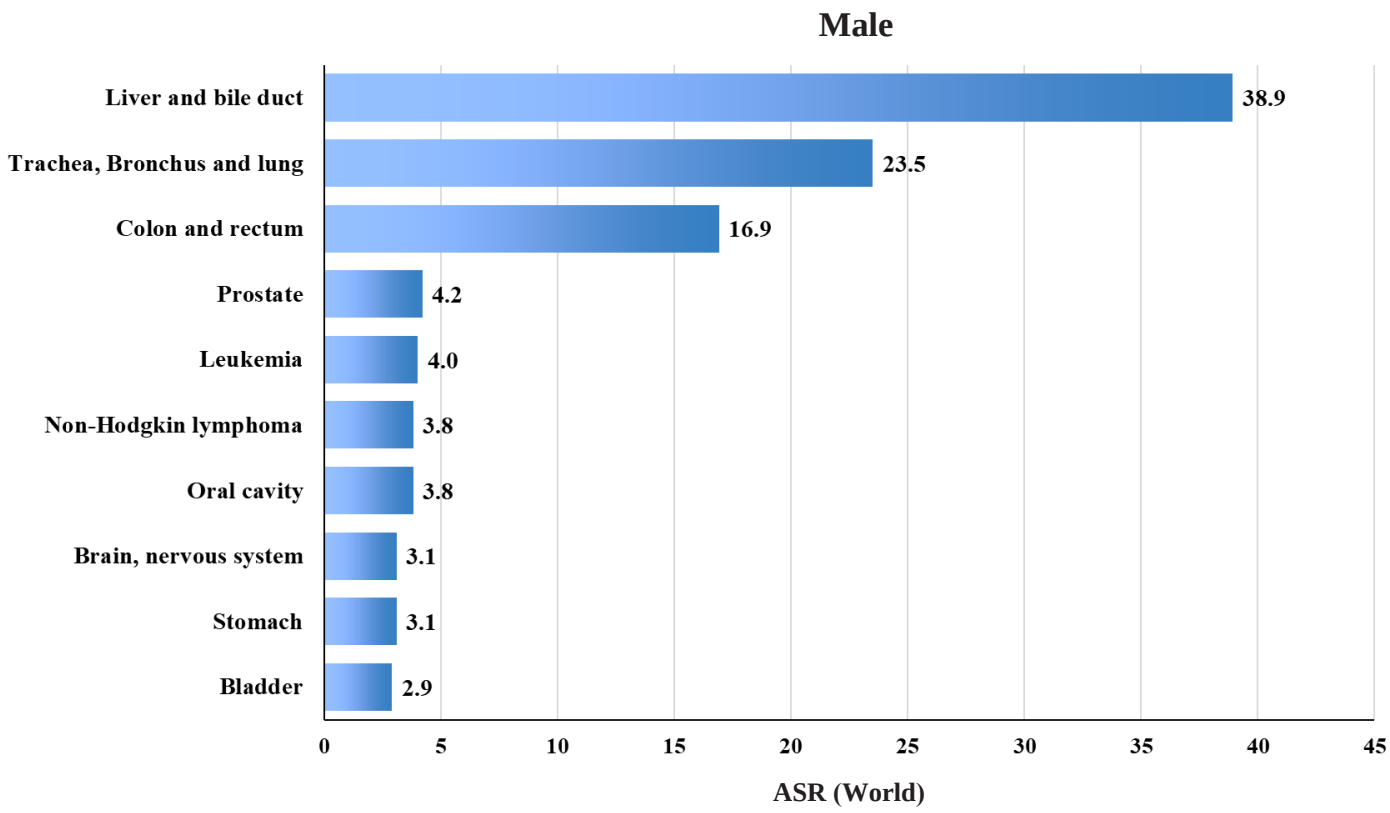
The sources of information on cancer cases are mainly hospital and pathology laboratory records. Each completed case notification form is checked for duplication with computer software for Thai names before entering into the database programme, CanReg5.

Death certificates are taken from the Udon Thani Population Analytical Center, all being reviewed to match with the cases in the data base, and efforts are made to trace further information before registering the case as a DCO case.

Summary of results

New cases registered in 2020, 1,181 were males and 1,242 were females, making 2,423 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 133.5 per 100,000, with liver and bile duct cancer ranking first (ASR = 38.9) followed by lung (ASR = 23.5) and colon and rectum (ASR = 16.9). The ASR of all cancer sites in females was 133.2 per 100,000, the three leading cancer sites being breast (ASR = 34.7), liver and bile duct (ASR = 15.8) and colon and retum (ASR = 12.4).

Figure 3.7.1 Leading cancer in Udon Thani (mean annual ASR 2019-2021)



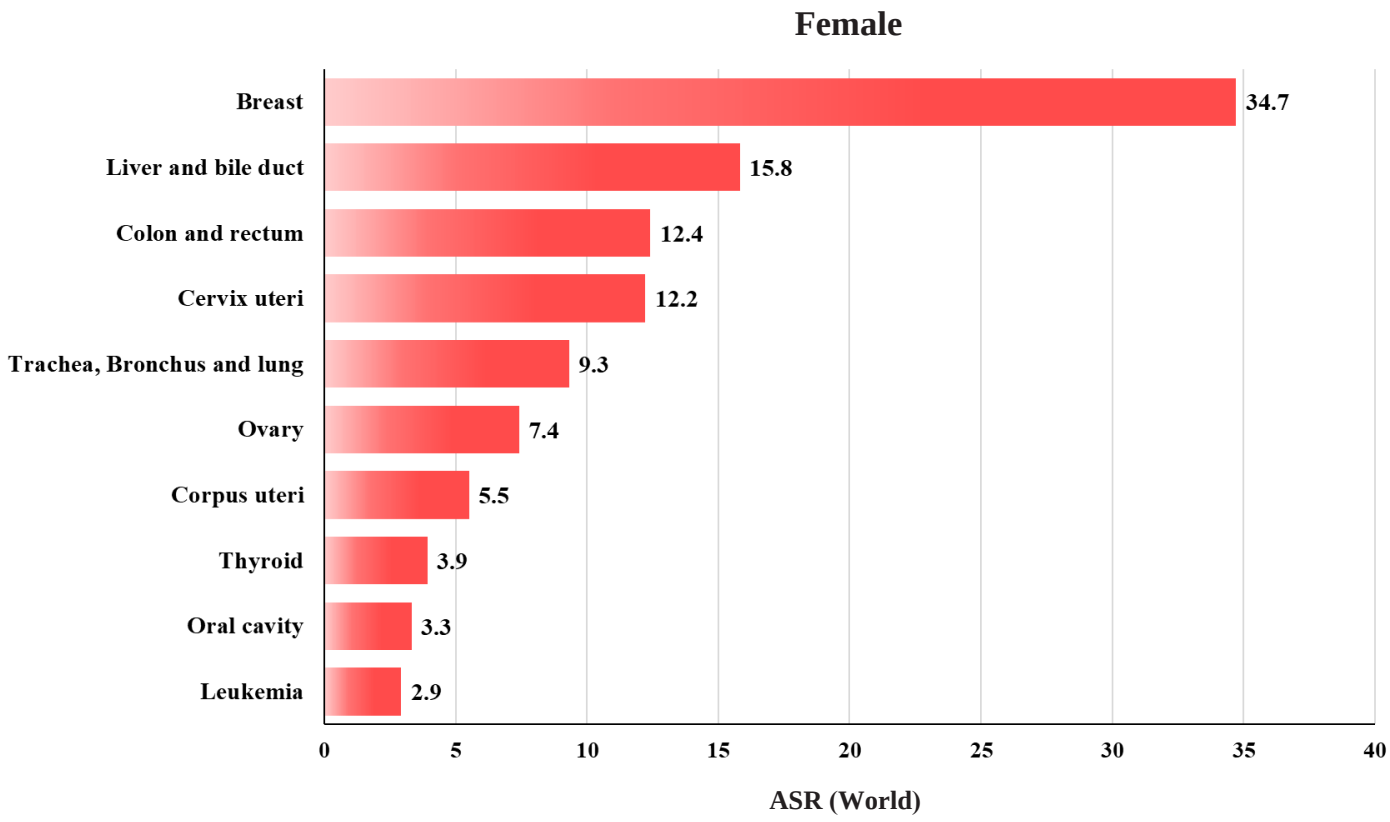


Table 3.7.1 Udon Thani (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group – Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C00	0.0	0.0
Tongue	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	3.6	4.5	7.0	7.1	5.6	1.2	1.7	3.0	2.3	1.6	C01-02	0.2	0.2
Mouth	12	0.0	0.9	0.0	0.0	0.6	0.0	0.0	0.0	9.0	3.8	1.4	3.9	2.8	4.6	6.9	3.0	2.1	1.6	C03-06	0.1	0.2
Salivary glands	4	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.1	0.0	0.8	1.4	0.8	1.9	0.0	3.4	1.5	0.6	0.5	C07-08	0.0	0.1
Tonsil	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.8	3.8	1.4	4.7	4.7	2.3	5.2	3.0	1.6	1.1	C09	0.1	0.1
Other oropharynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.9	0.8	0.0	0.8	0.9	1.2	0.0	0.0	0.3	0.3	C10	0.0	0.0
Nasopharynx	23	0.0	0.0	0.0	0.6	1.2	0.8	0.0	4.5	7.2	5.3	7.0	7.8	10.3	8.1	8.6	4.5	3.8	2.8	C11	0.2	0.3
Hypopharynx	8	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.1	1.8	3.0	2.1	3.9	1.9	2.3	3.4	0.0	1.3	1.0	C12-13	0.1	0.1
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C14	0.0	0.0
Oesophagus	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.8	4.5	3.5	8.6	8.4	10.5	5.2	6.1	2.8	1.9	C15	0.1	0.2
Stomach	28	0.0	0.0	0.0	0.0	0.0	0.8	0.0	3.4	4.5	1.5	4.2	7.8	10.3	20.9	19.0	27.3	4.7	3.1	C16	0.2	0.4
Small intestine	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.7	0.0	1.9	0.0	3.4	1.5	0.4	0.3	C17	0.0	0.0
Colon	85	0.0	0.0	1.5	0.0	0.6	2.5	3.5	5.7	6.3	14.4	21.0	29.0	34.5	53.4	56.9	47.0	14.1	9.4	C18	0.6	1.1
Rectum	63	0.0	0.0	0.0	0.0	0.0	2.5	1.2	3.4	6.3	7.6	14.0	22.0	27.0	37.2	48.3	40.9	10.5	6.9	C19-20	0.4	0.8
Anus	5	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	1.8	1.5	0.7	2.4	2.8	1.2	0.0	1.5	0.8	0.6	C21	0.1	0.1
Liver and bile duct	358	0.0	0.0	0.0	0.0	0.6	0.8	11.7	15.9	34.2	54.5	67.9	117.7	175.2	202.1	253.4	277.3	59.9	38.9	C22,C24	2.4	4.7
Gallbladder	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.4	5.5	5.6	10.5	8.6	12.1	2.1	1.3	C23	0.1	0.2
Pancreas	12	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.9	3.0	4.2	3.1	3.7	5.8	3.4	12.1	1.9	1.3	C25	0.1	0.1
Nose, sinuses etc.	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.8	2.1	0.8	2.8	0.0	3.4	0.0	0.6	0.4	C30-31	0.0	0.1
Larynx	9	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.1	0.0	1.5	2.1	1.6	6.5	4.6	5.2	7.6	1.6	1.1	C32	0.1	0.1
Trachea, Bronchus and lung	220	1.0	0.0	0.0	0.0	0.6	0.8	1.2	11.4	17.1	25.0	39.2	73.8	85.7	144.0	156.9	207.6	36.8	23.5	C33-34	1.3	2.8
Other thoracic organs	4	0.0	0.0	0.0	0.0	0.6	0.0	0.0	2.3	2.7	0.0	0.7	0.0	0.0	2.3	3.4	1.5	0.7	0.6	C37-38	0.0	0.1
Bone	13	1.9	0.0	2.2	1.3	3.1	0.0	0.0	0.0	0.0	0.0	4.2	3.9	6.5	3.5	3.4	4.5	2.1	1.7	C40-C41	0.1	0.2
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	1.9	1.2	0.0	1.5	0.3	0.2	C43	0.0	0.0
Other skin	13	0.0	0.0	0.0	0.0	0.6	0.0	2.3	0.0	0.0	3.0	2.8	3.1	4.7	4.6	10.3	13.6	2.2	1.4	C44	0.1	0.2
Kaposi's sarcoma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.1	0.1	C46	0.0	0.0
Connective tissue	8	0.0	0.9	0.7	0.0	0.0	0.0	1.2	0.0	1.8	1.5	2.8	3.1	0.0	1.2	5.2	6.1	1.3	1.0	C47,C49	0.1	0.1
Breast	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.8	0.7	0.0	0.0	4.6	1.7	0.0	0.4	0.3	C50	0.0	0.0
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51	0.0	0.0
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52	0.0	0.0
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53	0.0	0.0
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54	0.0	0.0
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55	0.0	0.0
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56	0.0	0.0
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57	0.0	0.0
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58	0.0	0.0
Penis	8	1.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	2.7	0.8	0.0	1.6	1.9	4.6	10.3	4.5	1.3	0.9	C60	0.0	0.1
Prostate	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.8	1.4	3.9	17.7	27.9	44.8	71.2	7.0	4.2	C61	0.1	0.5
Testis	5	0.0	0.0	0.0	0.6	0.6	2.5	3.5	0.0	0.9	1.5	1.4	0.8	0.0	0.0	1.7	1.5	0.9	0.8	C62	0.1	0.1
Other male genital organs	1	1.0	0.0	0.0	0.0	0.0	0.8	1.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	C63	0.0	0.0
Kidney	6	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.1	0.0	2.3	0.7	1.6	2.8	4.6	5.2	0.0	1.0	0.7	C64	0.0	0.1
Renal pelvis	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	1.9	0.0	1.7	0.0	0.3	0.2	C65	0.0	0.0
Ureter	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.1	0.0	C66	0.0	0.0
Bladder	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.0	4.2	7.1	10.3	13.9	27.6	31.8	4.6	2.9	C67	0.1	0.3
Other urinary organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.2	0.0	0.0	0.2	0.1	C68	0.0	0.0
Eye	4	0.0	0.9	0.0	0.6	0.0	0.0	0.0	0.0	1.8	1.5	0.0	0.8	0.0	2.3	1.7	1.5	0.6	0.5	C69	0.0	0.0
Brain, nervous system	21	2.9	0.0	3.7	1.9	0.0	4.1	1.2	6.8	2.7	3.0	2.8	7.8	3.7	8.1	8.6	4.5	3.5	3.1	C70-72	0.2	0.3
Thyroid	6	0.0	0.0	0.0	0.6	0.6	1.6	3.5	0.0	0.9	0.0	0.7	0.8	0.9	4.6	1.7	4.5	1.1	0.9	C73	0.0	0.1
Adrenal gland	1	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	C74	0.0	0.0
Other endocrine	1	0.0	0.0	1.5	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.2	0.2	C75	0.0	0.0
Hodgkin disease	2	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.9	0.0	0.0	0.8	0.9	1.2	0.0	1.5	0.4	0.3	C81	0.0	0.0
Non-Hodgkin lymphoma	32	0.0	0.0	0.7	1.3	1.2	4.1	5.8	1.1	3.6	0.8	5.6	14.1	18.6	12.8	13.8	15.2	5.3	3.8	C82-85,C96	0.3	0.4
Multiple myeloma	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.8	2.1	6.3	8.4	7.0	3.4	4.5	1.8	1.2	C90	0.1	0.1
Lymphoid leukemia	6	1.0	2.7	1.5	0.6	1.9	0.0	0.0	2.3	0.9	0.0	0.0	0.8	1.9	1.2	0.0	1.5	1.0	1.1	C91	0.1	0.1
Myeloid leukemia	13	1.9	0.0	0.0	0.0	0.6	2.5	2.3	1.1	2.7	3.0	2.1	3.9	1.9	8.1	5.2	3.0	2.1	1.8	C92-94	0.1	0.2
Leukemia unspecified	7	1.0	1.8	0.7	0.0	1.2	0.8	1.2	1.1	1.8	0.0	1.4	3.1	0.9	1.2	0.0	3.0	1.2	1.1	C95	0.1	0.1
Myelodysplastic disease	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D45-D47	0.0	0.0
Other and unspecified	54	0.0	0.9	0.0	0.6	0.6	2.5	9.4	4.5	4.5	6.8	10.5	14.1	19.6	30.2	34.5	43.9	8.9	6.3	O&U	0.4	0.7
All sites	**1,181**	**13.3**	**8.1**	**12.7**	**8.9**	**16.1**	**28.7**	**56.1**	**77.2**	**135.1**	**168.2**	**226.0**	**380.7**	**500.5**	**656.2**	**777.6**	**877.3**	**197.4**	**133.5**	**ALL**	**8.2**	**15.3**

Table 3.7.2 Udon Thani (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	5	0.0	0.0	0.8	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.7	0.0	3.0	0.0	8.5	0.7	0.4	C00	0.0	0.0
Tongue	8	0.0	0.0	0.0	0.0	0.0	0.8	1.2	0.0	0.8	1.4	1.9	2.8	4.2	2.0	1.4	4.3	1.3	0.8	C01-02	0.1	0.1
Mouth	16	0.0	0.0	0.0	1.3	1.3	0.8	3.5	0.0	0.0	2.0	3.1	2.1	2.5	2.0	10.1	19.2	2.6	1.6	C03-06	0.1	0.1
Salivary glands	4	0.0	0.0	0.0	0.7	0.0	0.0	1.2	2.3	1.6	0.7	0.6	0.7	0.8	0.0	1.4	1.1	0.6	0.5	C07-08	0.0	0.1
Tonsil	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.0	0.0	0.0	0.1	0.1	C09	0.0	0.0
Other oropharynx	2	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.7	0.0	0.7	0.8	0.0	1.4	0.0	0.3	0.2	C10	0.0	0.0
Nasopharynx	10	0.0	0.0	0.0	0.7	0.0	0.8	1.2	2.3	1.6	2.0	2.5	2.1	4.2	2.0	2.9	3.2	1.5	1.1	C11	0.1	0.1
Hypopharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	1.0	0.0	0.0	0.1	0.1	C12-13	0.0	0.0
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.1	0.0	C14	0.0	0.0
Oesophagus	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	1.4	0.0	2.0	1.4	2.1	0.5	0.3	C15	0.0	0.0
Stomach	23	0.0	0.0	0.0	0.0	0.0	1.6	2.3	8.0	2.4	3.4	7.5	5.7	9.2	6.1	5.8	9.6	3.6	2.6	C16	0.2	0.3
Small intestine	3	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.7	0.0	1.4	2.5	0.0	1.4	0.0	0.4	0.3	C17	0.0	0.0
Colon	82	0.0	0.0	0.0	1.3	1.9	1.6	5.8	4.6	4.9	16.4	15.6	17.1	25.9	35.6	59.4	45.9	12.9	8.0	C18	0.5	1.0
Rectum	42	0.0	0.0	0.0	0.0	0.0	0.0	2.3	3.4	6.5	6.8	8.7	15.6	19.2	19.3	27.5	7.5	6.7	4.3	C19-20	0.3	0.5
Anus	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	2.9	1.1	0.3	0.1	C21	0.0	0.0
Liver and bile duct	179	0.0	0.0	0.0	0.0	0.0	1.6	0.0	5.7	6.5	17.0	21.2	34.8	70.1	107.7	123.2	149.4	28.3	15.8	C22,C24	0.8	1.9
Gallbladder	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	2.8	2.5	8.1	10.1	14.9	1.9	1.0	C23	0.0	0.1
Pancreas	8	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	3.1	2.1	5.0	3.0	1.4	6.4	1.3	0.8	C25	0.1	0.1
Nose, sinuses etc.	3	1.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.8	0.7	0.6	0.0	1.7	1.0	1.4	0.0	0.5	0.4	C30-31	0.0	0.0
Larynx	2	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.6	0.7	0.8	0.0	1.4	0.0	0.3	0.2	C32	0.0	0.0
Trachea, Bronchus and lung	99	0.0	0.0	0.0	0.0	0.6	0.0	3.5	6.9	7.3	10.9	21.2	22.7	41.7	48.8	56.5	63.0	15.6	9.3	C33-34	0.6	1.1
Other thoracic organs	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.7	1.2	0.7	0.8	1.0	1.4	1.1	0.5	0.3	C37-38	0.0	0.0
Bone	15	0.0	0.0	1.6	0.7	0.6	2.3	1.2	2.3	0.8	0.7	3.7	3.6	1.7	6.1	4.3	11.7	2.4	1.6	C40-C41	0.1	0.1
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.8	3.0	0.0	1.1	0.3	0.2	C43	0.0	0.0
Other skin	22	0.0	0.0	0.0	0.0	0.0	0.8	2.3	1.1	2.4	3.4	3.1	4.3	3.3	8.1	10.1	25.6	3.5	2.0	C44	0.1	0.2
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46	0.0	0.0
Connective tissue	6	0.0	0.9	0.0	0.0	0.0	0.0	0.0	1.1	2.4	0.7	1.9	0.7	2.5	0.0	2.9	4.3	1.0	0.7	C47,C49	0.1	0.1
Breast	303	0.0	0.0	0.0	0.7	0.0	7.0	27.8	65.1	93.8	111.1	98.6	103.1	82.6	61.0	69.6	32.0	47.9	34.7	C50	2.9	3.6
Vulva	5	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.8	0.7	0.6	0.7	3.3	1.0	0.0	4.3	0.7	0.5	C51	0.0	0.0
Vagina	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.7	0.8	1.0	1.4	1.1	0.3	0.2	C52	0.0	0.0
Cervix uteri	96	0.0	0.0	0.0	0.0	0.6	5.4	30.2	29.7	35.9	31.4	25.0	21.3	20.0	16.3	20.3	13.9	15.1	12.2	C53	1.0	1.2
Corpus uteri	54	0.0	0.0	0.0	0.0	0.0	0.8	7.0	3.4	6.5	6.1	16.2	26.3	28.4	12.2	29.0	5.3	8.5	5.5	C54	0.5	0.7
Uterus unspecified	5	0.0	0.0	0.0	0.0	0.0	0.8	0.0	3.4	1.6	0.0	2.5	2.1	0.8	1.0	0.0	1.1	0.8	0.7	C55	0.1	0.1
Ovary	61	1.0	0.0	1.6	2.7	3.2	6.2	9.3	13.7	10.6	14.3	12.5	18.5	20.0	20.3	14.5	9.6	9.6	7.4	C56	0.6	0.7
Other female genital organs	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.8	2.0	0.6	0.7	1.7	1.0	1.4	1.1	0.6	0.4	C57	0.0	0.0
Placenta	2	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.1	0.8	1.4	0.6	0.0	0.0	0.0	0.0	0.0	0.4	0.4	C58	0.0	0.0
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60	0.0	0.0
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61	0.0	0.0
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62	0.0	0.0
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63	0.0	0.0
Kidney	2	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.7	0.8	2.0	1.4	0.0	0.4	0.3	C64	0.0	0.0
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.2	0.1	C65	0.0	0.0
Ureter	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C66	0.0	0.0
Bladder	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.8	0.7	1.2	0.7	1.7	3.0	0.0	2.1	0.7	0.5	C67	0.0	0.0
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.1	0.0	C68	0.0	0.0
Eye	1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	1.0	0.0	1.1	0.2	0.2	C69	0.0	0.0
Brain, nervous system	23	0.0	1.9	0.8	0.0	0.0	3.9	4.6	2.3	4.1	6.8	5.0	7.1	3.3	6.1	5.8	7.5	3.6	2.8	C70-72	0.2	0.3
Thyroid	30	0.0	0.0	2.3	1.3	2.5	3.9	8.1	9.1	7.3	5.5	6.2	9.2	5.8	5.1	10.1	1.1	4.7	3.9	C73	0.3	0.4
Adrenal gland	1	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C74	0.0	0.0
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C75	0.0	0.0
Hodgkin disease	2	0.0	0.0	0.0	0.0	1.3	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	C81	0.0	0.0
Non-Hodgkin lymphoma	25	1.0	0.0	0.8	0.7	2.5	1.6	2.3	1.1	2.4	2.0	3.7	5.7	13.4	9.1	8.7	11.7	3.9	2.7	C82-85,C96	0.2	0.3
Multiple myeloma	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.8	3.3	3.0	4.3	2.1	0.9	0.5	C90	0.0	0.1
Lymphoid leukemia	2	1.0	0.9	0.0	0.7	0.6	0.0	1.2	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.4	0.5	C91	0.0	0.0
Myeloid leukemia	11	1.0	0.9	0.0	0.7	1.9	2.3	1.2	0.0	0.8	2.7	0.6	2.8	4.2	2.0	0.0	5.3	1.7	1.4	C92-94	0.1	0.1
Leukemia unspecified	7	2.0	0.9	0.8	0.0	0.0	0.0	1.2	1.1	0.0	0.7	2.5	2.1	0.8	2.0	2.9	3.2	1.2	1.0	C95	0.1	0.1
Myelodysplastic disease	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.1	0.0	D45-D47	0.0	0.0
Other and unspecified	42	1.0	0.0	0.8	0.7	0.6	0.8	2.3	6.9	2.4	4.1	3.7	7.8	11.7	20.3	29.0	36.3	6.7	4.2	O&U	0.2	0.5
All sites	**1,242**	**8.9**	**6.5**	**9.3**	**12.6**	**17.8**	**47.4**	**126.5**	**180.6**	**212.1**	**260.4**	**278.9**	**337.6**	**405.7**	**427.8**	**529.0**	**520.8**	**196.3**	**133.2**	**ALL**	**9.5**	**14.3**

Table 3.7.3 Mean annual incidence, Udon Thani, 2019-2021

Site	Male						Female						ICD-10
	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74 (percent)	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74 (percent)	
Lip	1	0.1	0.1	0.1	0.0	0.0	5	0.4	0.7	0.4	0.0	0.0	C00
Tongue	14	1.2	2.3	1.6	0.2	0.2	8	0.6	1.3	0.8	0.1	0.1	C01-02
Mouth	12	1.0	2.1	1.6	0.1	0.2	16	1.3	2.6	1.6	0.1	0.1	C03-06
Salivary glands	4	0.3	0.6	0.5	0.0	0.1	4	0.3	0.6	0.5	0.0	0.1	C07-08
Tonsil	9	0.8	1.6	1.1	0.1	0.1	1	0.1	0.1	0.1	0.0	0.0	C09
Other oropharynx	2	0.2	0.3	0.3	0.0	0.0	2	0.1	0.3	0.2	0.0	0.0	C10
Nasopharynx	23	1.9	3.8	2.8	0.2	0.3	10	0.8	1.5	1.1	0.1	0.1	C11
Hypopharynx	8	0.6	1.3	1.0	0.1	0.1	1	0.1	0.1	0.1	0.0	0.0	C12-13
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C14
Oesophagus	17	1.4	2.8	1.9	0.1	0.2	3	0.2	0.5	0.3	0.0	0.0	C15
Stomach	28	2.4	4.7	3.1	0.2	0.4	23	1.9	3.6	2.6	0.2	0.3	C16
Small intestine	2	0.2	0.4	0.3	0.0	0.0	3	0.2	0.4	0.3	0.0	0.0	C17
Colon	85	7.2	14.1	9.4	0.6	1.1	82	6.6	12.9	8.0	0.5	1.0	C18
Rectum	63	5.3	10.5	6.9	0.4	0.8	42	3.4	6.7	4.3	0.3	0.5	C19-20
Anus	5	0.4	0.8	0.6	0.1	0.1	2	0.1	0.3	0.1	0.0	0.0	C21
Liver and bile duct	358	30.3	59.9	38.9	2.4	4.7	179	14.4	28.3	15.8	0.8	1.9	C22,C24
Gallbladder	13	1.1	2.1	1.3	0.1	0.2	12	1.0	1.9	1.0	0.0	0.1	C23
Pancreas	12	1.0	1.9	1.3	0.1	0.1	8	0.7	1.3	0.8	0.1	0.1	C25
Nose, sinuses etc.	4	0.3	0.6	0.4	0.0	0.1	3	0.2	0.5	0.4	0.0	0.0	C30-31
Larynx	9	0.8	1.6	1.1	0.1	0.1	2	0.1	0.3	0.2	0.0	0.0	C32
Trachea, Bronchus and lung	220	18.6	36.8	23.5	1.3	2.8	99	8.0	15.6	9.3	0.6	1.1	C33-34
Other thoracic organs	4	0.3	0.7	0.6	0.0	0.1	3	0.2	0.5	0.3	0.0	0.0	C37-38
Bone	13	1.1	2.1	1.7	0.1	0.2	15	1.2	2.4	1.6	0.1	0.1	C40-C41
Melanoma of skin	2	0.2	0.3	0.2	0.0	0.0	2	0.2	0.3	0.2	0.0	0.0	C43
Other skin	13	1.1	2.2	1.4	0.1	0.2	22	1.8	3.5	2.0	0.1	0.2	C44
Kaposi's sarcoma	1	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	8	0.6	1.3	1.0	0.1	0.1	6	0.5	1.0	0.7	0.1	0.1	C47,C49
Breast	3	0.2	0.4	0.3	0.0	0.0	303	24.4	47.9	34.7	2.9	3.6	C50
Vulva							5	0.4	0.7	0.5	0.0	0.0	C51
Vagina							2	0.2	0.3	0.2	0.0	0.0	C52
Cervix uteri							96	7.7	15.1	12.2	1.0	1.2	C53
Corpus uteri							54	4.3	8.5	5.5	0.5	0.7	C54
Uterus unspecified							5	0.4	0.8	0.7	0.1	0.1	C55
Ovary							61	4.9	9.6	7.4	0.6	0.7	C56
Other female genital organs							4	0.3	0.6	0.4	0.0	0.0	C57
Placenta							2	0.2	0.4	0.4	0.0	0.0	C58
Penis	8	0.6	1.3	0.9	0.0	0.1							C60
Prostate	42	3.5	7.0	4.2	0.1	0.5							C61
Testis	5	0.5	0.9	0.8	0.1	0.1							C62
Other male genital organs	1	0.1	0.2	0.3	0.0	0.0							C63
Kidney	6	0.5	1.0	0.7	0.0	0.1	2	0.2	0.4	0.3	0.0	0.0	C64
Renal pelvis	2	0.1	0.3	0.2	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C65
Ureter	0	0.0	0.1	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C66
Bladder	28	2.3	4.6	2.9	0.1	0.3	4	0.3	0.7	0.5	0.0	0.0	C67
Other urinary organs	1	0.1	0.2	0.1	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C68
Eye	4	0.3	0.6	0.5	0.0	0.0	1	0.1	0.2	0.2	0.0	0.0	C69
Brain, nervous system	21	1.8	3.5	3.1	0.2	0.3	23	1.8	3.6	2.8	0.2	0.3	C70-72
Thyroid	6	0.5	1.1	0.9	0.0	0.1	30	2.4	4.7	3.9	0.3	0.4	C73
Adrenal gland	1	0.1	0.2	0.3	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C74
Other endocrine	1	0.1	0.2	0.2	0.0	0.0	0	0.0	0.1	0.1	0.0	0.0	C75
Hodgkin disease	2	0.2	0.4	0.3	0.0	0.0	2	0.2	0.3	0.4	0.0	0.0	C81
Non-Hodgkin lymphoma	32	2.7	5.3	3.8	0.3	0.4	25	2.0	3.9	2.7	0.2	0.3	C82-85,C96
Multiple myeloma	11	0.9	1.8	1.2	0.1	0.1	6	0.5	0.9	0.5	0.0	0.1	C90
Lymphoid leukemia	6	0.5	1.0	1.1	0.1	0.1	2	0.2	0.4	0.5	0.0	0.0	C91
Myeloid leukemia	13	1.1	2.1	1.8	0.1	0.2	11	0.9	1.7	1.4	0.1	0.1	C92-94
Leukemia unspecified	7	0.6	1.2	1.1	0.1	0.1	7	0.6	1.2	1.0	0.1	0.1	C95
Myelodysplastic disease	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	D45-D47
Other and unspecified	54	4.5	8.9	6.3	0.4	0.7	42	3.4	6.7	4.2	0.2	0.5	O&U
All sites	**1,181**	**100.0**	**197.4**	**133.5**	**8.2**	**15.3**	**1,242**	**100.0**	**196.3**	**133.2**	**9.5**	**14.3**	**All**

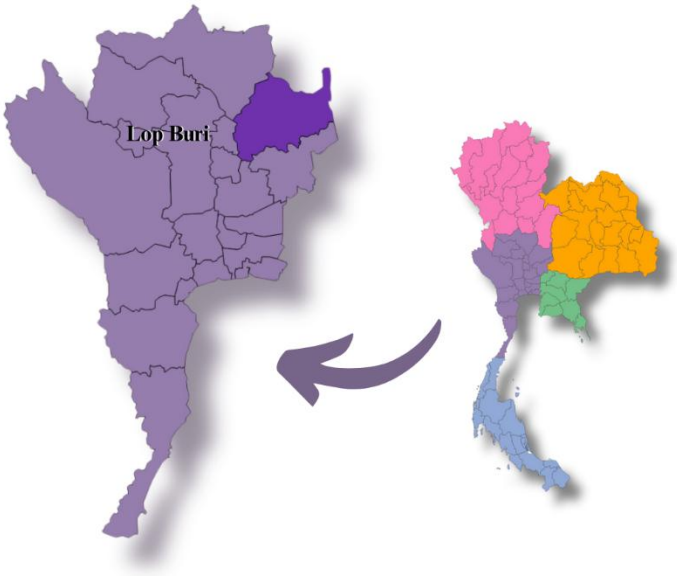
Table 3.7.4 Percentage of morphologically verified and death certificate only cases, Udon Thani

Site	Male			Female			ICD-10
	Cases 3 Year	%MV	%DCO	Cases 3 Year	%MV	%DCO	
Oral cavity	91	96.7	1.1	99	97.0	2.0	C00-C08
Oropharynx	34	97.1	2.9	8	75.0	12.5	C09-C10,C14
Nasopharynx	69	97.1	1.4	29	96.6	0.0	C11
Hypopharynx	23	100.0	0.0	2	100.0	0.0	C12-C13
Esophagus	51	96.1	2.0	9	100.0	0.0	C15
Stomach	85	89.4	7.1	69	78.3	8.7	C16
Small intestine	7	71.4	0.0	8	87.5	0.0	C17
Colon and rectum	456	89.9	3.7	377	87.8	2.7	C18-C21
Liver and bile duct	1,075	21.7	20.7	538	27.1	19.9	C22,C24
Gallbladder	38	50.0	42.1	37	16.2	62.2	C23
pancrease	35	57.1	2.9	25	36.0	8.0	C25
Nose,sinuses etc	11	90.9	0.0	9	77.8	0.0	C30-C31
Larynx	28	92.9	3.6	5	60.0	0.0	C32
Trachea, brochus and lung	660	69.5	13.6	297	70.7	12.1	C33-C34
Other thoracic organs	12	91.7	0.0	9	77.8	0.0	C37-C38
Bone	38	57.9	36.8	45	53.3	37.8	C40-C41
Melanoma of skin	6	100.0	0.0	6	100.0	0.0	C43
Other skin	39	92.3	7.7	66	98.5	0.0	C44
Mesothelioma	0	0.0	0.0	0	0.0	0.0	C45
Kaposi sarcoma	2	100.0	0.0	0	0.0	0.0	C46
Connective and soft tissue	23	95.7	0.0	19	89.5	0.0	C47,C49
Breast	8	75.0	0.0	909	94.9	0.0	C50
Vulva				14	78.6	0.0	C51
Vagina				6	66.7	0.0	C52
Cervix uteri				287	94.8	0.0	C53
Corpus uteri				161	94.4	0.0	C54
Uterus unspecified				16	62.5	25.0	C55
Ovary				183	69.9	3.3	C56
Other female genital organs				12	83.3	0.0	C57
Placenta				7	28.6	0.0	C58
Penis	23	91.3	0.0				C60
Prostate	125	91.2	7.2				C61
Testis	16	100.0	0.0				C62
Other male genital organs	4	50.0	0.0				C63
Kidney	18	88.9	0.0	7	85.7	0.0	C64
Renal pelvis	5	100.0	0.0	3	100.0	0.0	C65
Ureter	1	100.0	0.0	0	0.0	0.0	C66
Bladder	83	96.4	2.4	13	100.0	0.0	C67
Other urinary organs	3	100.0	0.0	1	0.0	100.0	C68
Eye	11	72.7	0.0	4	0.0	0.0	C69
Brain, nervous system	63	81.0	7.9	68	76.5	10.3	C70-C72
Thyroid	19	84.2	0.0	89	93.3	0.0	C73
Adrenal gland	3	100.0	0.0	2	100.0	0.0	C74
Other endocrine	4	100.0	0.0	1	100.0	0.0	C75
Hodgkin disease	7	100.0	0.0	6	100.0	0.0	C81
Non-Hodgkin lymphoma	96	100.0	0.0	74	100.0	0.0	C82-C85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	33	100.0	0.0	18	100.0	0.0	C90
Leukemia	77	100.0	0.0	61	100.0	0.0	C91-C95
Myelodysplastic	0	0.0	0.0	1	100.0	0.0	D45-D47
Other and unspecified	161	34.4	55.4	127	29.4	48.4	O&U
All sites	**3,543**	**62.9**	**13.5**	**3,727**	**76.3**	**7.6**	**All**
All sites without liver	**2,468**	**80.9**	**10.3**	**3,189**	**84.5**	**5.5**	**All**

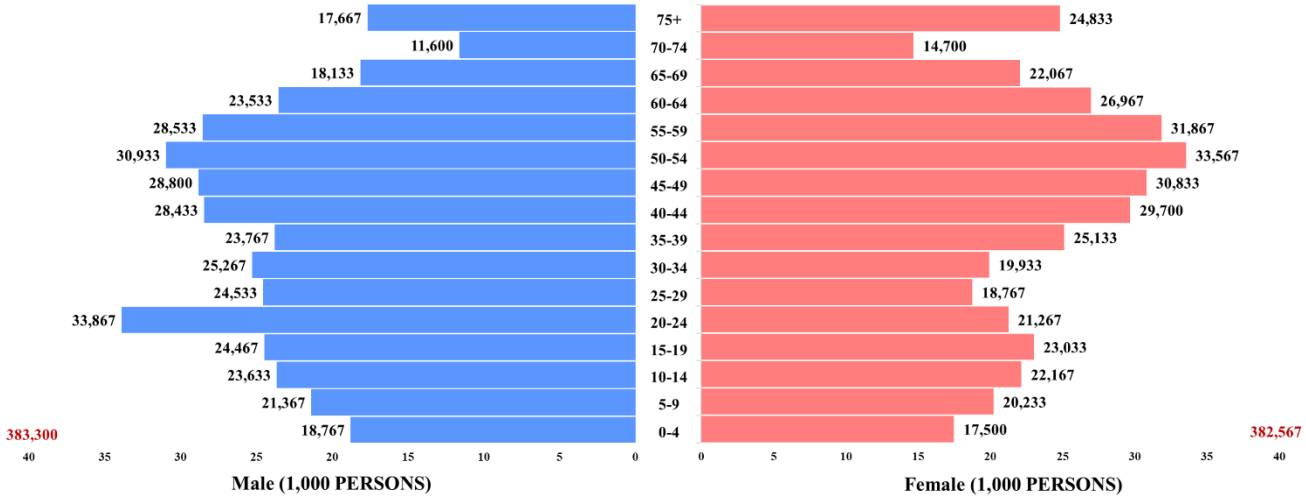
3.8 Lop Buri Cancer Registry

Registration area

Lop Buri is located on the east side of the Chao Phraya river valley, between the Lop Buri river and Pa Sak rivers at latitude 14:48 º N and 100:37 º E. The land area is 6,200 square kilometers and the Lopburi registry covers of 11 districts and a population estimated in 2008 at 765,867. Thirty percent of the area is a low plain and the remaining seventy percent is intermixed between plain and hills.



Population pyramid Lop Buri
estimated population in 2020 (2019 – 2021)



Cancer care facilities

In Lopburi province health care service is provided in 16 community hospitals. 1 Lopburi provincial hospital (King Narai Hospital), 10 community hospitals, 2 private hospitals, 2 military hospital (Ananthamahidol (Army) Hospital And Air Force hospital) and 1 cancer hospital (Lopburi Cancer Hospital). For cancer care, these hospitals have cancer diagnostic services (including CT scan, clinical consultation and radiological, pathological investigations). Oncologic surgery services, chemotherapy and targeted therapy are available in Lopburi cancer hospital and King Narai hospital. Radiation therapy was available only in Lopburi cancer hospital. There were one simulators machine, one CT simulator, two dual energy LINAC with multi leaf collimator. One cobalt-60 teletherapy machines, two treatment planning system for 3D conformal radiation therapy and IMRT and one High Dose Rate machine for brachytherapy are provided in Lopburi Cancer hospital. All hospitals in the province provide palliative care. However, some patients are referred to National Cancer Institute, Bangkok.

Registry procedures

The registry unit is located within Lopburi Cancer Hospital. The Lopburi registry was established in 2002 by Dr.Chaiyaporn kanka. Director of Lopburi Cancer Hospital. with the backup data of cancer cases in Lopburi since 1997 which collected.

All data on cancer patients were collected by both active and passive methods with notification by the staff of all hospital in Lopburi. Including notified some information from Cancer Registry Unit of National Cancer Institute, New cancer cases were collected from out and in patient departments, medical record, radiotherapy unit, surgery unit, cytology unit, hematology unit and pathological unit. The follow-up of all registered cases were carried out by passive methods with linking database of National Health Security office.

The primary site and histology were coded according to the ICD-O third edition. Second primary cancers were also registered; a new registration number was assigned for each new primary cancer. All cancer death certificates are matched with the incidence case records from the registry. Individuals certified as having died from cancer are registered as Death Certificate Only (DCO) cases if no other information about the individual can be traced from other sources. All data is sent to the Department of Provincial Administration, Ministry of Interior, to verify the date of death and cause of death.

The completed data from were checked manually, and entered into the database file in a personal computer at Cancer Registry Unit of Lopburi Cancer Hospital, using Cancer5 software for data entry and analysis. Cases of carcinoma in situ were registered but not included in the analysis.

Summary of results

New cases registered in 2020, 887 were males and 941 were females, making 1,828 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 144.2 per 100,000, with liver and bile duct cancer ranking first (ASR = 28.9) followed by colon and rectum (ASR = 25.7) and Lung (ASR = 18.4). The ASR of all cancer sites in females was 147.1 per 100,000, the three leading cancer sites being breast (ASR = 39.9), colon and rectum (ASR = 15.1) and cervix (ASR = 13.4).

Figure 3.8.1 Leading cancer in Lop Buri (mean annual ASR 2019-2021)

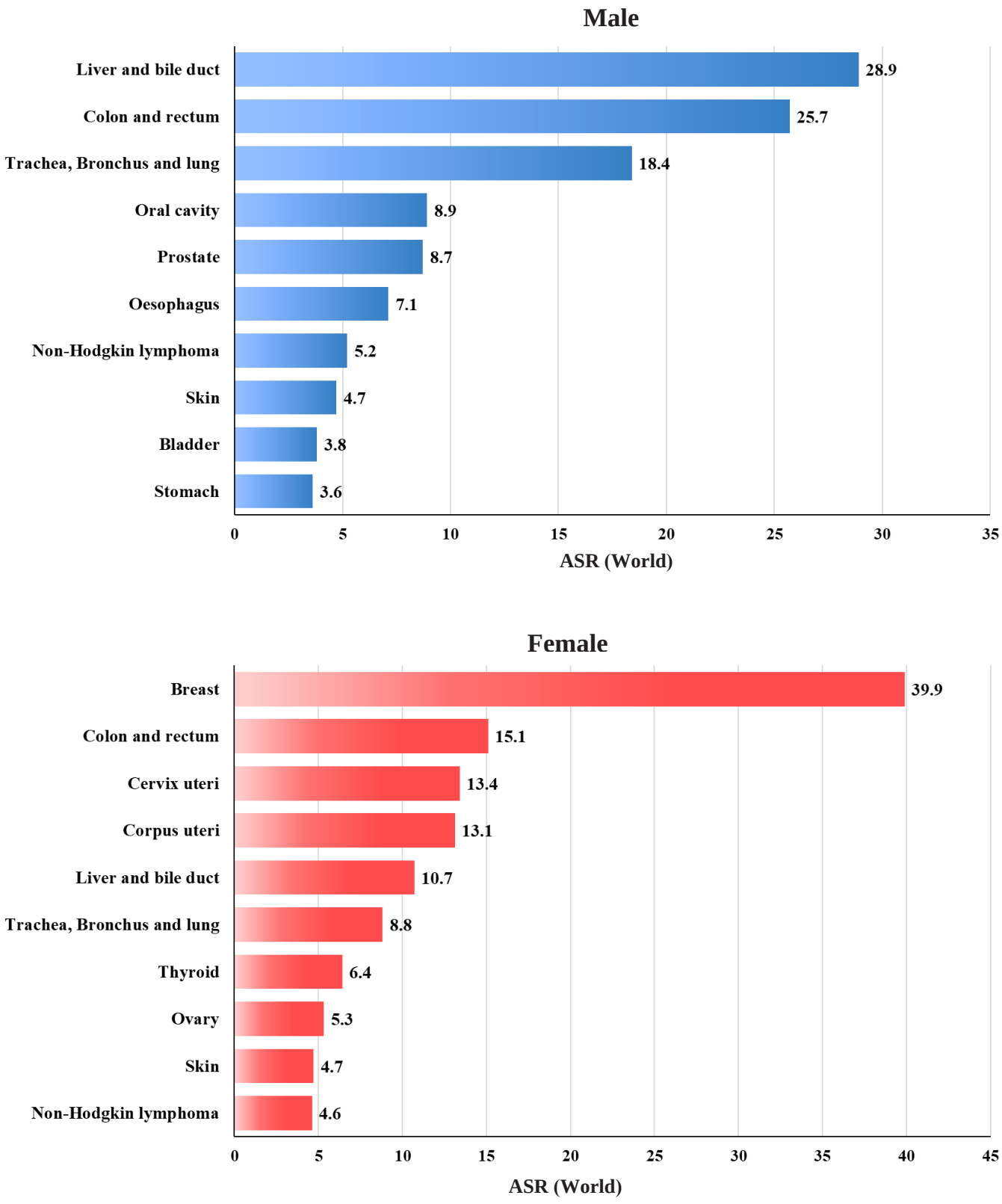


Table 3.8.1 Lop Buri (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	5.7	0.3	0.2	C00	0.0	0.0
Tongue	25	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.8	4.7	9.3	7.5	17.5	14.2	20.2	31.6	13.2	6.6	4.2	C01-02	0.3	0.5
Mouth	20	0.0	0.0	0.0	1.4	2.0	0.0	0.0	0.0	2.3	5.8	7.5	15.2	14.2	5.5	11.5	22.6	5.1	3.2	C03-06	0.2	0.3
Salivary glands	8	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	1.2	3.5	1.1	2.3	8.5	3.7	2.9	11.3	2.0	1.3	C07-08	0.1	0.1
Tonsil	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.5	5.4	8.2	2.8	7.4	2.9	3.8	2.2	1.3	C09	0.1	0.2
Other oropharynx	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.2	1.2	3.2	5.8	4.2	3.7	5.7	3.8	1.7	1.1	C10	0.1	0.1
Nasopharynx	11	0.0	0.0	0.0	0.0	2.0	1.4	0.0	1.4	4.7	3.5	5.4	2.3	8.5	7.4	5.7	3.8	2.8	2.0	C11	0.1	0.2
Hypopharynx	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.9	4.6	3.2	7.0	18.4	1.8	11.5	5.7	3.5	2.3	C12-13	0.2	0.3
Pharynx unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.8	0.0	0.0	0.2	0.1	C14	0.0	0.0
Oesophagus	44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.7	8.1	17.2	30.4	42.5	38.6	37.4	26.4	11.5	7.1	C15	0.5	0.9
Stomach	23	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	2.3	8.1	3.2	8.2	21.2	14.7	20.1	34.0	5.9	3.6	C16	0.2	0.4
Small intestine	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.1	0.0	0.0	3.7	0.0	0.0	0.3	0.2	C17	0.0	0.0
Colon	94	0.0	0.0	0.0	0.0	0.0	4.1	1.3	4.2	4.7	10.4	28.0	45.6	82.2	86.4	103.4	105.7	24.5	14.8	C18	0.9	1.9
Rectum	65	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.2	9.4	11.6	20.5	37.4	45.3	60.7	92.0	47.2	17.0	10.5	C19-20	0.6	1.4
Anus	2	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.8	0.0	1.2	0.0	0.0	0.0	0.0	0.0	1.9	0.4	0.4	C21	0.0	0.0
Liver and bile duct	176	0.0	0.0	0.0	2.7	0.0	1.4	4.0	9.8	28.1	55.6	59.3	93.5	126.1	156.2	163.8	147.2	46.0	28.9	C22,C24	1.9	3.5
Gallbladder	5	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	1.2	0.0	3.5	2.8	1.8	14.4	3.8	1.3	0.8	C23	0.0	0.1
Pancreas	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	5.4	4.7	11.3	11.0	20.1	7.5	3.1	1.9	C25	0.1	0.3
Nose, sinuses etc.	5	0.0	0.0	0.0	0.0	1.0	0.0	0.0	2.8	0.0	1.2	1.1	0.0	7.1	1.8	2.9	3.8	1.2	0.8	C30-31	0.1	0.1
Larynx	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.6	3.2	8.2	12.7	7.4	8.6	7.5	3.0	1.9	C32	0.1	0.2
Trachea, Bronchus and lung	121	0.0	0.0	0.0	0.0	0.0	1.4	2.6	2.8	10.6	16.2	26.9	50.2	76.5	75.4	169.5	213.2	31.6	18.4	C33-34	0.9	2.2
Other thoracic organs	5	0.0	0.0	1.4	0.0	1.0	0.0	1.3	0.0	2.3	1.2	2.2	1.2	2.8	3.7	2.9	0.0	1.2	0.9	C37-38	0.1	0.1
Bone	5	0.0	0.0	1.4	1.4	2.0	2.7	0.0	0.0	0.0	1.2	0.0	2.3	4.2	3.7	2.9	1.9	1.4	1.2	C40-C41	0.1	0.1
Melanoma of skin	3	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.4	2.3	0.0	1.1	0.0	1.4	3.7	2.9	1.9	0.9	0.6	C43	0.0	0.1
Other skin	26	0.0	0.0	0.0	1.4	2.0	1.4	2.6	4.2	3.5	3.5	11.9	10.5	9.9	9.2	14.4	47.2	6.7	4.1	C44	0.3	0.4
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C46	0.0	0.0
Connective tissue	9	0.0	1.6	2.8	0.0	0.0	1.4	0.0	4.2	0.0	5.8	7.5	1.2	2.8	1.8	5.7	3.8	2.3	1.9	C47,C49	0.1	0.2
Breast	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.8	1.8	2.9	0.0	0.5	0.3	C50	0.0	0.0
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51	0.0	0.0
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52	0.0	0.0
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53	0.0	0.0
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54	0.0	0.0
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55	0.0	0.0
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56	0.0	0.0
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58	0.0	0.0
Penis	4	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	2.3	1.1	0.0	2.8	1.8	5.7	3.8	1.0	0.6	C60	0.0	0.1
Prostate	61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	1.1	7.0	31.2	57.0	100.6	164.2	16.0	8.7	C61	0.2	1.0
Testis	2	0.0	0.0	0.0	0.0	0.0	1.4	1.3	2.8	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	C62	0.0	0.0
Other male genital organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	1.9	0.3	0.2	C63	0.0	0.0
Kidney	10	1.8	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.2	0.0	3.2	3.5	8.5	7.4	11.5	13.2	2.6	1.7	C64	0.1	0.2
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	3.8	0.3	0.1	C65	0.0	0.0
Ureter	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.1	0.0	C66	0.0	0.0
Bladder	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3	2.2	8.2	17.0	18.4	34.5	64.2	7.0	3.8	C67	0.2	0.4
Eye	1	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.8	2.9	0.0	0.3	0.3	C69	0.0	0.0
Brain, nervous system	9	3.6	3.1	0.0	1.4	0.0	0.0	5.3	0.0	1.2	5.8	3.2	4.7	1.4	0.0	2.9	3.8	2.3	2.1	C70-72	0.1	0.2
Thyroid	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.7	0.0	3.2	0.0	2.8	3.7	0.0	5.7	1.5	1.0	C73	0.1	0.1
Adrenal gland	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.4	0.0	0.0	0.0	0.2	0.1	C74	0.0	0.0
Other endocrine	0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C75	0.0	0.0
Hodgkin disease	1	0.0	0.0	0.0	0.0	1.0	0.0	1.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.3	0.3	C81	0.0	0.0
Non-Hodgkin lymphoma	29	0.0	0.0	1.4	0.0	4.9	4.1	7.9	4.2	4.7	4.6	8.6	10.5	18.4	18.4	31.6	17.0	7.5	5.2	C82-85,C96	0.3	0.6
Multiple myeloma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.4	0.0	0.0	0.0	0.2	0.1	C90	0.0	0.0
Lymphoid leukemia	2	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	1.4	1.8	0.0	0.0	0.4	0.4	C91	0.0	0.0
Myeloid leukemia	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.2	0.0	2.2	2.3	2.8	5.5	0.0	0.0	1.0	0.6	C92-94	0.0	0.1
Leukemia unspecified	0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C95	0.0	0.0
Other and unspecified	24	0.0	0.0	0.0	1.4	1.0	2.7	0.0	0.0	2.3	3.5	12.9	17.5	9.9	16.5	14.4	30.2	6.3	3.9	O&U	0.3	0.4
All sites	**887**	**5.3**	**6.2**	**7.1**	**12.3**	**18.7**	**24.5**	**35.6**	**58.9**	**113.7**	**184.0**	**265.1**	**413.6**	**623.2**	**665.4**	**942.5**	**1,032.1**	**231.3**	**144.2**	**ALL**	**8.8**	**16.9**

Table 3.8.2 Lop Buri (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	1	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.7	0.3	0.2	C00	0.0	0.0
Tongue	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.3	3.0	3.1	0.0	3.0	4.5	6.7	1.7	0.9	C01-02	0.1	0.1
Mouth	11	0.0	0.0	0.0	0.0	0.0	1.8	1.7	5.3	2.2	0.0	1.0	1.0	6.2	3.0	4.5	17.4	2.8	1.6	C03-06	0.1	0.1
Salivary glands	5	0.0	0.0	0.0	0.0	3.1	1.8	0.0	0.0	0.0	1.1	4.0	2.1	1.2	0.0	2.3	5.4	1.4	0.9	C07-08	0.1	0.1
Tonsil	2	0.0	0.0	0.0	0.0	1.6	0.0	3.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.4	0.4	C09	0.0	0.0
Other oropharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	2.1	0.0	0.0	2.3	0.0	0.3	0.2	C10	0.0	0.0
Nasopharynx	4	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	1.1	3.2	1.0	0.0	1.2	1.5	4.5	1.3	1.0	0.7	C11	0.0	0.1
Hypopharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	2.7	0.3	0.2	C12-13	0.0	0.0
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C14	0.0	0.0
Oesophagus	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0	1.0	4.9	4.5	4.5	9.4	1.7	0.8	C15	0.0	0.1
Stomach	13	0.0	0.0	0.0	0.0	0.0	1.8	0.0	1.3	2.2	2.2	3.0	7.3	6.2	12.1	6.8	9.4	3.4	1.9	C16	0.1	0.2
Small intestine	4	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	2.2	0.0	0.0	2.1	2.5	0.0	4.5	4.0	1.0	0.6	C17	0.0	0.1
Colon	69	0.0	0.0	0.0	0.0	0.0	1.8	6.7	2.7	7.9	11.9	26.8	26.2	33.4	36.3	61.2	71.1	18.1	9.3	C18	0.6	1.1
Rectum	39	0.0	0.0	0.0	0.0	1.6	1.8	5.0	1.3	3.4	7.6	15.9	15.7	29.7	15.1	36.3	26.8	10.2	5.6	C19-20	0.4	0.7
Anus	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.5	1.5	0.0	0.0	0.4	0.2	C21	0.0	0.0
Liver and bile duct	83	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.3	5.6	11.9	22.8	32.4	38.3	66.5	74.8	87.2	21.6	10.7	C22,C24	0.6	1.3
Gallbladder	5	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	3.1	2.5	1.5	6.8	6.7	1.3	0.7	C23	0.0	0.1
Pancreas	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	3.2	4.0	2.1	8.7	9.1	11.3	18.8	3.7	1.8	C25	0.1	0.2
Nose, sinuses etc.	3	0.0	0.0	0.0	1.4	1.6	1.8	0.0	1.3	0.0	2.2	0.0	1.0	0.0	0.0	2.3	1.3	0.8	0.7	C30-31	0.0	0.1
Larynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	2.0	1.0	0.0	0.0	4.5	0.0	0.5	0.3	C32	0.0	0.0
Trachea, Bronchus and lung	66	0.0	0.0	0.0	0.0	0.0	0.0	1.7	6.6	5.6	14.1	11.9	33.5	42.0	46.8	45.4	59.1	17.2	8.8	C33-34	0.6	1.0
Other thoracic organs	3	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	1.1	0.0	1.0	0.0	4.5	0.0	2.7	0.7	0.4	C37-38	0.0	0.0
Bone	4	0.0	3.3	0.0	0.0	4.7	1.8	1.7	0.0	0.0	0.0	1.0	0.0	2.5	0.0	6.8	0.0	1.1	1.2	C40-C41	0.1	0.1
Melanoma of skin	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	2.0	1.0	1.2	3.0	2.3	6.7	1.2	0.6	C43	0.0	0.1
Other skin	31	0.0	0.0	0.0	0.0	3.1	0.0	1.7	6.6	3.4	5.4	5.0	10.5	12.4	13.6	24.9	40.3	7.9	4.1	C44	0.2	0.4
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46	0.0	0.0
Connective tissue	6	0.0	3.3	0.0	0.0	3.1	1.8	1.7	1.3	1.1	1.1	3.0	0.0	2.5	3.0	2.3	2.7	1.7	1.5	C47,C49	0.1	0.1
Breast	241	0.0	0.0	0.0	0.0	4.7	14.2	41.8	47.7	84.2	125.4	99.3	103.6	132.3	102.7	77.1	68.5	62.9	39.9	C50	3.3	4.2
Vulva	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.1	0.0	0.0	0.0	2.5	1.5	0.0	4.0	0.7	0.4	C51	0.0	0.0
Vagina	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0	0.0	1.2	0.0	4.5	0.0	0.4	0.3	C52	0.0	0.0
Cervix uteri	76	0.0	0.0	0.0	0.0	1.6	16.0	15.1	27.9	19.1	30.3	37.7	46.0	30.9	19.6	27.2	16.1	20.0	13.4	C53	1.1	1.4
Corpus uteri	86	0.0	0.0	0.0	0.0	1.6	1.8	6.7	10.6	13.5	24.9	38.7	68.0	65.5	39.3	38.5	12.1	22.5	13.1	C54	1.2	1.5
Uterus unspecified	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	2.2	1.0	1.0	2.5	0.0	2.3	1.3	0.9	0.6	C55	0.0	0.1
Ovary	32	0.0	0.0	0.0	2.9	3.1	5.3	3.3	5.3	9.0	6.5	10.9	14.6	11.1	19.6	22.7	14.8	8.3	5.3	C56	0.4	0.6
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C58	0.0	0.0
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60	0.0	0.0
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61	0.0	0.0
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62	0.0	0.0
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63	0.0	0.0
Kidney	5	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	2.2	1.0	3.1	1.2	3.0	4.5	4.0	1.3	0.7	C64	0.0	0.1
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.1	0.0	C65	0.0	0.0
Ureter	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.2	0.1	C66	0.0	0.0
Bladder	10	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.3	0.0	1.1	0.0	2.1	4.9	4.5	11.3	18.8	2.7	1.3	C67	0.1	0.1
Eye	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C69	0.0	0.0
Brain, nervous system	7	0.0	3.3	0.0	1.4	0.0	1.8	1.7	2.7	1.1	0.0	1.0	1.0	3.7	3.0	9.1	1.3	1.7	1.5	C70-72	0.1	0.1
Thyroid	33	0.0	0.0	0.0	4.3	0.0	8.9	10.0	13.3	19.1	9.7	10.9	11.5	6.2	18.1	11.3	8.1	8.7	6.4	C73	0.5	0.6
Adrenal gland	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.1	0.0	C74	0.0	0.0
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	C75	0.0	0.0
Hodgkin disease	1	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.5	0.0	0.0	0.3	0.4	C81	0.0	0.0
Non-Hodgkin lymphoma	24	1.9	1.6	0.0	1.4	9.4	1.8	6.7	4.0	1.1	8.6	7.0	5.2	7.4	10.6	24.9	13.4	6.3	4.6	C82-85,C96	0.3	0.5
Multiple myeloma	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.0	2.3	0.0	0.4	0.2	C90	0.0	0.0
Lymphoid leukemia	1	1.9	0.0	0.0	0.0	1.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.3	0.5	C91	0.0	0.0
Myeloid leukemia	2	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	1.1	0.0	0.0	2.5	1.5	4.5	0.0	0.6	0.4	C92-94	0.0	0.1
Leukemia unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.1	0.0	C95	0.0	0.0
Other and unspecified	23	1.9	0.0	1.5	0.0	1.6	3.6	0.0	0.0	4.5	3.2	3.0	6.3	13.6	12.1	27.2	22.8	6.0	3.5	O&U	0.2	0.4
All sites	**941**	**5.7**	**11.5**	**1.5**	**14.5**	**43.9**	**74.6**	**118.7**	**152.5**	**193.0**	**287.6**	**321.7**	**410.0**	**488.3**	**466.8**	**585.0**	**573.2**	**245.7**	**147.1**	**ALL**	**10.6**	**15.9**

Table 3.8.3 Mean annual incidence, Lop Buri, 2019-2021

Site	Male						Female						ICD-10
	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	
Lip	1	0.2	0.3	0.2	0.0	0.0	1	0.1	0.3	0.2	0.0	0.0	C00
Tongue	25	2.9	6.6	4.2	0.3	0.5	7	0.7	1.7	0.9	0.1	0.1	C01-02
Mouth	20	2.2	5.1	3.2	0.2	0.3	11	1.1	2.8	1.6	0.1	0.1	C03-06
Salivary glands	8	0.9	2.0	1.3	0.1	0.1	5	0.6	1.4	0.9	0.1	0.1	C07-08
Tonsil	8	0.9	2.2	1.3	0.1	0.2	2	0.2	0.4	0.4	0.0	0.0	C09
Other oropharynx	7	0.8	1.7	1.1	0.1	0.1	1	0.1	0.3	0.2	0.0	0.0	C10
Nasopharynx	11	1.2	2.8	2.0	0.1	0.2	4	0.4	1.0	0.7	0.0	0.1	C11
Hypopharynx	13	1.5	3.5	2.3	0.2	0.3	1	0.1	0.3	0.2	0.0	0.0	C12-13
Pharynx unspecified	1	0.1	0.2	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C14
Oesophagus	44	5.0	11.5	7.1	0.5	0.9	6	0.7	1.7	0.8	0.0	0.1	C15
Stomach	23	2.6	5.9	3.6	0.2	0.4	13	1.4	3.4	1.9	0.1	0.2	C16
Small intestine	1	0.2	0.3	0.2	0.0	0.0	4	0.4	1.0	0.6	0.0	0.1	C17
Colon	94	10.6	24.5	14.8	0.9	1.9	69	7.4	18.1	9.3	0.6	1.1	C18
Rectum	65	7.3	17.0	10.5	0.6	1.4	39	4.1	10.2	5.6	0.4	0.7	C19-20
Anus	2	0.2	0.4	0.4	0.0	0.0	2	0.2	0.4	0.2	0.0	0.0	C21
Liver and bile duct	176	19.9	46.0	28.9	1.9	3.5	83	8.8	21.6	10.7	0.6	1.3	C22,C24
Gallbladder	5	0.6	1.3	0.8	0.0	0.1	5	0.5	1.3	0.7	0.0	0.1	C23
Pancreas	12	1.4	3.1	1.9	0.1	0.3	14	1.5	3.7	1.8	0.1	0.2	C25
Nose, sinuses etc.	5	0.5	1.2	0.8	0.1	0.1	3	0.3	0.8	0.7	0.0	0.1	C30-31
Larynx	12	1.3	3.0	1.9	0.1	0.2	2	0.2	0.5	0.3	0.0	0.0	C32
Trachea, Bronchus and lung	121	13.6	31.6	18.4	0.9	2.2	66	7.0	17.2	8.8	0.6	1.0	C33-34
Other thoracic organs	5	0.5	1.2	0.9	0.1	0.1	3	0.3	0.7	0.4	0.0	0.0	C37-38
Bone	5	0.6	1.4	1.2	0.1	0.1	4	0.5	1.1	1.2	0.1	0.1	C40-C41
Melanoma of skin	3	0.4	0.9	0.6	0.0	0.1	5	0.5	1.2	0.6	0.0	0.1	C43
Other skin	26	2.9	6.7	4.1	0.3	0.4	31	3.3	7.9	4.1	0.2	0.4	C44
Kaposi's sarcoma	0	0.0	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	9	1.0	2.3	1.9	0.1	0.2	6	0.7	1.7	1.5	0.1	0.1	C47,C49
Breast	2	0.2	0.5	0.3	0.0	0.0	241	25.6	62.9	39.9	3.3	4.2	C50
Vulva							3	0.3	0.7	0.4	0.0	0.0	C51
Vagina							2	0.2	0.4	0.3	0.0	0.0	C52
Cervix uteri							76	8.1	20.0	13.4	1.1	1.4	C53
Corpus uteri							86	9.1	22.5	13.1	1.2	1.5	C54
Uterus unspecified							3	0.4	0.9	0.6	0.0	0.1	C55
Ovary							32	3.4	8.3	5.3	0.4	0.6	C56
Placenta													C58
Penis	4		1.0	0.6	0.0	0.1							C60
Prostate	61	6.9	16.0	8.7	0.2	1.0							C61
Testis	2	0.2	0.4	0.4	0.0	0.0							C62
Other male genital organs	1	0.2	0.3	0.2	0.0	0.0							C63
Kidney	10	1.1	2.6	1.7	0.1	0.2	5	0.5	1.3	0.7	0.0	0.1	C64
Renal pelvis	1	0.1	0.3	0.1	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C65
Ureter	0	0.0	0.1	0.0	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C66
Bladder	27	3.0	7.0	3.8	0.2	0.4	10	1.1	2.7	1.3	0.1	0.1	C67
Eye	1	0.2	0.3	0.3	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C69
Brain, nervous system	9	1.0	2.3	2.1	0.1	0.2	7	0.7	1.7	1.5	0.1	0.1	C70-72
Thyroid	6	0.6	1.5	1.0	0.1	0.1	33	3.5	8.7	6.4	0.5	0.6	C73
Adrenal gland	1	0.1	0.2	0.1	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C74
Other endocrine	0	0.0	0.1	0.1	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C75
Hodgkin disease	1	0.2	0.3	0.3	0.0	0.0	1	0.1	0.3	0.4	0.0	0.0	C81
Non-Hodgkin lymphoma	29	3.2	7.5	5.2	0.3	0.6	24	2.6	6.3	4.6	0.3	0.5	C82-85,C96
Multiple myeloma	1	0.1	0.2	0.1	0.0	0.0	2	0.2	0.4	0.2	0.0	0.0	C90
Lymphoid leukemia	2	0.2	0.4	0.4	0.0	0.0	1	0.1	0.3	0.5	0.0	0.0	C91
Myeloid leukemia	4	0.4	1.0	0.6	0.0	0.1	2	0.2	0.6	0.4	0.0	0.1	C92-94
Leukemia unspecified	0	0.0	0.1	0.1	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C95
Other and unspecified	24	2.7	6.3	3.9	0.3	0.4	23	2.4	6.0	3.5	0.2	0.4	O&U
All sites	**887**	**100.0**	**231.3**	**144.2**	**8.8**	**16.9**	**941**	**100.0**	**245.7**	**147.1**	**10.6**	**15.9**	**ALL**

Table 3.8.4 Percentage of morphologically verified and death certificate only cases, Lop Buri

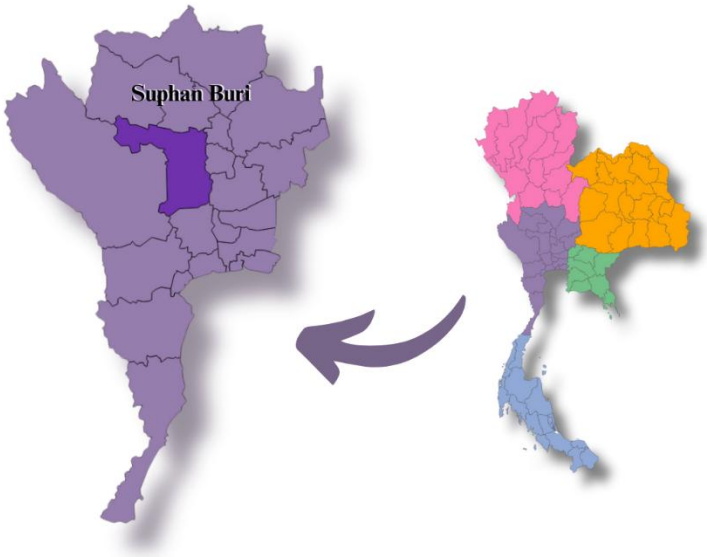
Site	Male			Female			ICD-10
	Cases 3 Year	%MV	%DCO	Cases 3 Year	%MV	%DCO	
Oral cavity	162	95.1	1.2	72	88.9	0.0	C00-C08
Oropharynx	47	95.7	0.0	9	77.8	0.0	C09-C10,C14
Nasopharynx	32	96.9	0.0	12	91.7	0.0	C11
Hypopharynx	40	95.0	0.0	4	100.0	0.0	C12-C13
Esophagus	132	91.7	0.8	19	78.9	5.3	C15
Stomach	68	83.8	10.3	39	69.2	2.6	C16
Small intestine	4	25.0	0.0	12	75.0	0.0	C17
Colon and rectum	482	88.2	1.7	330	80.9	3.3	C18-C21
Liver and bile duct	529	24.6	7.8	248	33.5	7.7	C22,C24
Gallbladder	15	46.7	0.0	15	26.7	0.0	C23
pancrease	36	52.8	0.0	42	38.1	11.9	C25
Nose,sinuses etc	14	78.6	0.0	9	55.6	0.0	C30-C31
Larynx	35	88.6	0.0	6	66.7	16.7	C32
Trachea, brochus and lung	363	77.7	6.3	197	81.2	10.7	C33-C34
Other thoracic organs	14	78.6	0.0	8	37.5	0.0	C37-C38
Bone	16	25.0	12.5	13	38.5	7.7	C40-C41
Melanoma of skin	10	100.0	0.0	14	100.0	0.0	C43
Other skin	77	71.4	0.0	92	77.2	2.2	C44
Mesothelioma	0	0.0	0.0	0	0.0	0.0	C45
Kaposi sarcoma	1	100.0	0.0	0	0.0	0.0	C46
Connective and soft tissue	27	85.2	3.7	19	84.2	0.0	C47,C49
Breast	6	100.0	0.0	722	91.6	1.5	C50
Vulva				8	100.0	0.0	C51
Vagina				5	80.0	0.0	C52
Cervix uteri				229	88.6	2.2	C53
Corpus uteri				258	81.8	0.0	C54
Uterus unspecified				10	40.0	0.0	C55
Ovary				95	52.6	1.1	C56
Other female genital organs				0	0.0	0.0	C57
Placenta				1	0.0	0.0	C58
Penis	11	90.9	0.0				C60
Prostate	184	84.2	1.6				C61
Testis	5	40.0	0.0				C62
Other male genital organs	4	75.0	0.0				C63
Kidney	30	50.0	10.0	15	60.0	6.7	C64
Renal pelvis	3	33.3	0.0	1	0.0	0.0	C65
Ureter	1	100.0	0.0	2	100.0	0.0	C66
Bladder	80	91.3	2.5	31	80.6	6.5	C67
Other urinary organs	0	0.0	0.0	0	0.0	0.0	C68
Eye	4	75.0	0.0	0	0.0	0.0	C69
Brain, nervous system	26	42.3	26.9	20	35.0	20.0	C70-C72
Thyroid	17	82.4	0.0	100	92.0	0.0	C73
Adrenal gland	2	0.0	100.0	1	100.0	0.0	C74
Other endocrine	1	100.0	0.0	1	0.0	100.0	C75
Hodgkin disease	4	100.0	0.0	4	100.0	0.0	C81
Non-Hodgkin lymphoma	86	100.0	0.0	73	100.0	0.0	C82-C85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	2	100.0	0.0	5	100.0	0.0	C90
Leukemia	17	100.0	0.0	12	100.0	0.0	C91-C95
Myelodysplastic	0	0.0	0.0	0	0.0	0.0	D45-D47
Other and unspecified	73	64.4	26.0	69	40.6	39.1	O&U
All sites	**2,660**	**71.7**	**4.5**	**2,822**	**77.4**	**4.0**	**All**
All sites without liver	**2,131**	**83.4**	**3.8**	**2,574**	**81.6**	**3.7**	**All**

3.9 Suphan Buri Cancer Registry

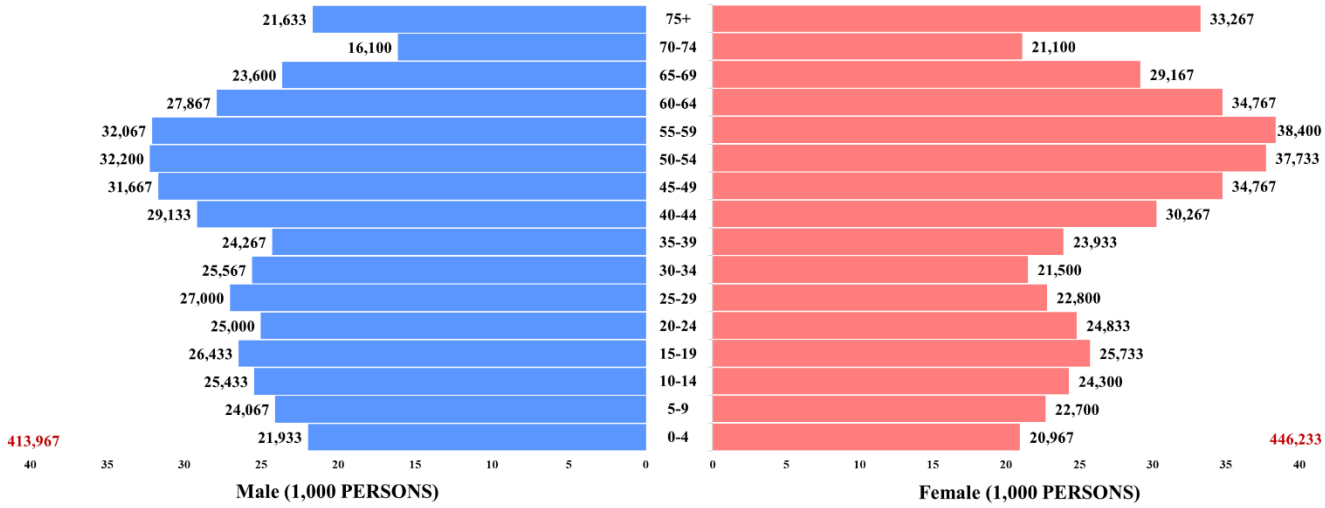
Registration area

Suphan Buri Province located in the central region of Thailand is one of 76 provinces with the first-level administrative divisions.Neighboring provinces are Uthai Thani, ChaiNat, Sing Buri, Ang Thong, PhraNakhon Si Ayutthaya, Nakhon Pathom and Kanchanaburi.The estimated population in 2020 was 860,200 with 413,967 males and 446,233 females.

The terrain of the province is mostly river lower plains, with small mountain ranges in the north and the west of the province. The total forest area is 631 km^2 (244 mi^2) or 11.7 percent of provincial area.



Population pyramid Suphan Buri
estimated population in 2020 (2019 – 2021)



Cancer care facilities

There are 10 hospitals in Suphan Buri province are 10 Hospitals, compose of 2 provincial hospitals, 8 community hospitals, 3 private hospitals. Cancer diagnostic services including radiological (X-ray, ultrasound, CT scan and mammography), pathological investigations and cancer surgery services are available Suphan Buri provincial hospitals.Cancer diagnostic and cancer chemotherapy are provided in Suphan Buri provincial. Most of the cancer patients are diagnosed and treated in the province. Only few patients are referred to Lop Buri Cancer Hospital, National Cancer Institute, Ratchaburi Hospital and Bangkok for cancer diagnosis or cancer treatment. All hospital in the province provide palliative care.

Registry procedures

Population- based cancer registration of Suphan Buri province was established by Cancer Registry Unit of Lop Buri Cancer Hospital in 2007. All data on cancer patients were collected by passive methods with notification by the staff of Suphan Buri provincial hospitals, 3 private hospitals and 8 community hospitals which were under supervision of Suphan Buri Provincial Public Health Service. New cancer cases were collected from out and in patient departments, medical record, radiotherapy unit, surgery unit, cytology unit, hematology unit, pathological unit and autopsy service. The data information was collected includes demographic details for each cancer patient that consisted of registry number, name, residential address, date of birth, age, sex, date of diagnosis, site of cancer, histology of cancer, staging, extension of disease, method of diagnosis, treatment, date of last contact and vital status of cancer patients. Information of deaths from all causes of death were collected from Bureau of Health policy and Strategy, Ministry of Public Health. The follow-up of all registered cases was carried out by passive methods with linking database of National Health Security office.

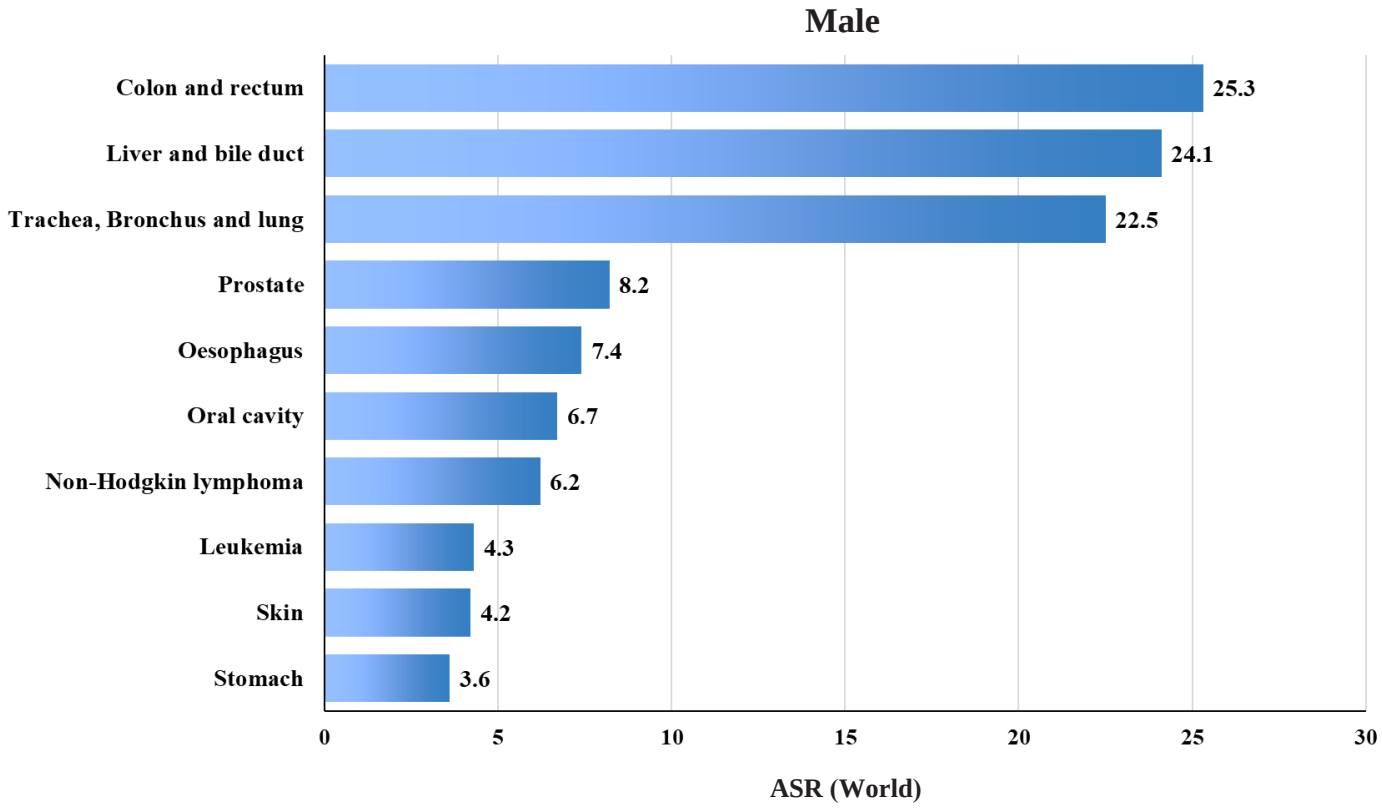
The primary site and histology were coded according to ICD-O, third edition. Second primary cancer was also registered, a new registration number was, given for each new primary cancer. All death certificates were matched with the incidence case records of the registry. Death certificates were obtained from Bureau of Policy and Strategy, Ministry of Public Health.

The completed data from were checked manually, and entered into the database file in a personal computer at Cancer Registry Unit of Chaophayayommarat Hospital, using TCB (Thai Cancer Based) software for data entry and analysis. Cases of carcinoma in situ were registered but not included in the analysis.

Summary of results

New cases registered in 2020; 1,062 were males and 1,103 were females, making 2,165 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 148.0 per 100,000, with colon and rectum cancer ranking first (ASR = 25.3) followed by liver and bile duct (ASR = 24.1), trachea, bronchus and lung (ASR = 22.5). The ASR of all cancer sites in females was 139.8 per 100,000, the three leading cancer sites being breast (ASR = 38.1), colon and rectum (ASR = 16.1) and cervix uteri (ASR = (12.7).

Figure 3.9.1 Leading cancer in Suphan Buri (mean annual ASR 2019-2021)



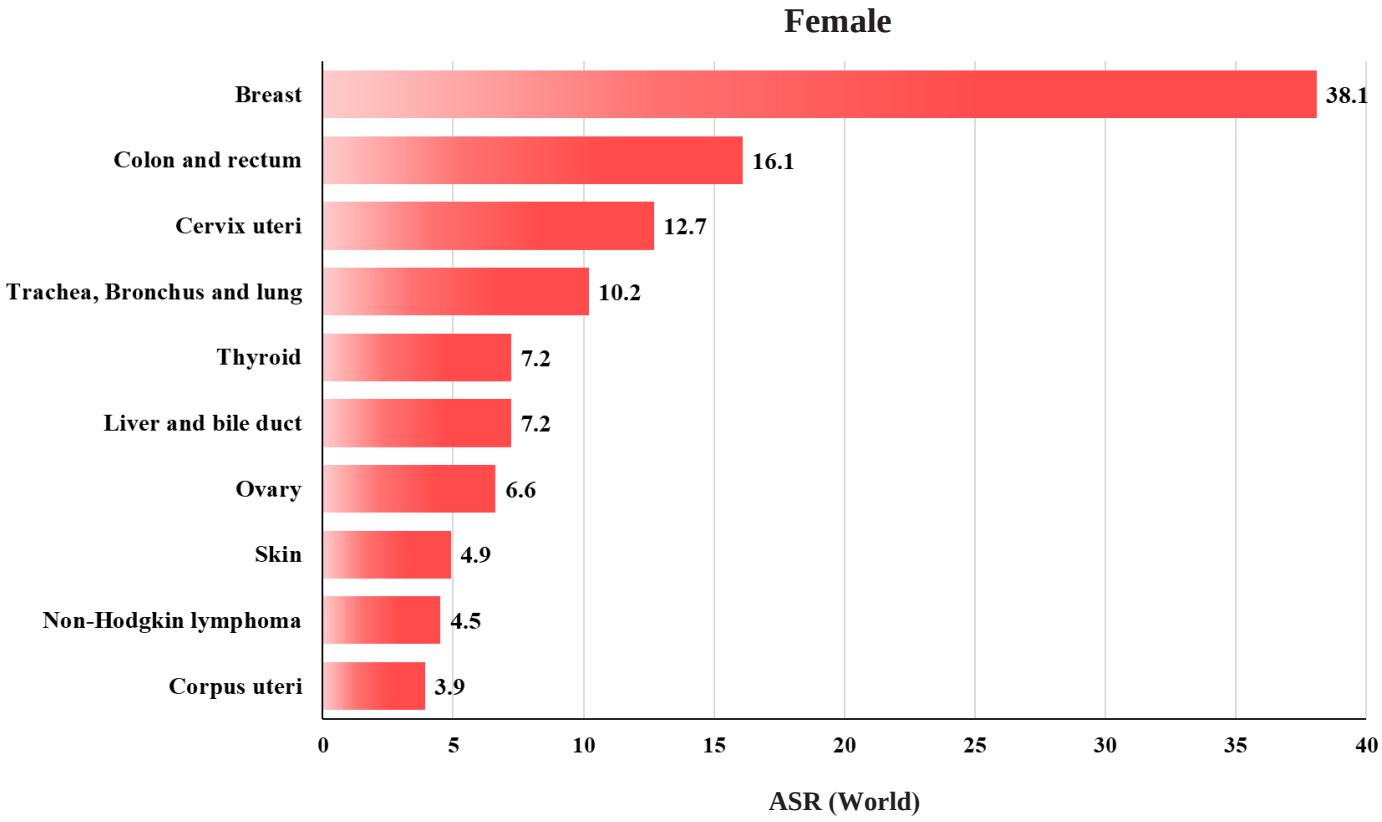


Table 3.9.1 Suphan Buri (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.1	0.0	C00	0.0	0.0
Tongue	22	0.0	0.0	0.0	0.0	1.3	1.2	1.3	2.7	3.4	7.4	13.5	8.3	12.0	16.9	10.4	4.6	5.3	3.4	C01-02	0.3	0.4
Mouth	18	0.0	0.0	0.0	0.0	1.3	1.2	0.0	4.1	5.7	4.2	6.2	9.4	10.8	11.3	10.4	4.6	4.3	2.8	C03-06	0.2	0.3
Salivary glands	3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.4	1.1	0.0	0.0	1.0	0.0	2.8	4.1	3.1	0.8	0.5	C07-08	0.0	0.1
Tonsil	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	4.2	5.2	11.4	6.0	7.1	0.0	3.1	2.8	1.7	C09	0.2	0.2
Other oropharynx	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.1	3.1	5.2	1.2	2.8	4.1	1.5	1.4	0.9	C10	0.1	0.1
Nasopharynx	12	0.0	0.0	0.0	0.0	1.3	0.0	2.6	1.4	5.7	2.1	6.2	5.2	6.0	4.2	8.3	4.6	3.0	2.0	C11	0.2	0.2
Hypopharynx	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.3	7.4	9.3	9.4	3.6	14.1	8.3	9.2	4.1	2.4	C12-13	0.2	0.3
Pharynx unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.2	1.4	0.0	0.0	0.2	0.1	C14	0.0	0.0
Oesophagus	52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	8.0	18.9	22.8	34.3	28.7	33.9	22.8	26.2	12.6	7.4	C15	0.6	0.9
Stomach	27	0.0	0.0	0.0	1.3	0.0	0.0	2.6	1.4	0.0	4.2	9.3	10.4	10.8	15.5	22.8	37.0	6.6	3.6	C16	0.2	0.4
Small intestine	4	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.1	1.1	2.1	2.1	2.4	2.8	2.1	0.0	1.0	0.6	C17	0.1	0.1
Colon	119	0.0	0.0	0.0	0.0	2.7	4.9	2.6	8.2	9.2	14.7	16.6	46.8	76.6	91.8	99.4	126.3	28.7	15.7	C18	0.9	1.9
Rectum	68	0.0	0.0	0.0	0.0	2.7	0.0	1.3	6.9	12.6	15.8	14.5	33.3	43.1	43.8	45.5	53.9	16.4	9.5	C19-20	0.7	1.1
Anus	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.2	0.1	C21	0.0	0.0
Liver and bile duct	171	1.5	1.4	0.0	0.0	1.3	2.5	3.9	13.7	27.5	37.9	59.0	82.1	113.6	118.6	93.2	115.6	41.3	24.1	C22,C24	1.7	2.8
Gallbladder	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.0	2.1	2.4	0.0	0.0	4.6	0.7	0.4	C23	0.0	0.0
Pancreas	25	0.0	0.0	0.0	0.0	0.0	1.2	1.3	0.0	2.3	5.3	5.2	11.4	10.8	19.8	29.0	21.6	6.1	3.4	C25	0.2	0.4
Nose, sinuses etc.	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.0	1.0	2.4	1.4	4.1	0.0	0.7	0.4	C30-31	0.0	0.1
Larynx	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.3	5.3	6.2	11.4	8.4	15.5	10.4	16.9	4.8	2.7	C32	0.2	0.3
Trachea, Bronchus and lung	175	0.0	0.0	0.0	0.0	2.7	1.2	5.2	9.6	10.3	23.2	28.0	53.0	105.3	141.2	140.8	223.4	42.2	22.5	C33-34	1.2	2.6
Other thoracic organs	4	0.0	0.0	0.0	1.3	0.0	1.2	0.0	0.0	1.1	2.1	1.0	0.0	2.4	0.0	2.1	4.6	1.0	0.7	C37-38	0.0	0.1
Bone	7	0.0	0.0	3.9	3.8	2.7	1.2	0.0	1.4	1.1	3.2	1.0	1.0	2.4	2.8	0.0	3.1	1.8	1.7	C40-C41	0.1	0.1
Melanoma of skin	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0	0.0	1.2	2.8	2.1	10.8	1.0	0.5	C43	0.0	0.0
Other skin	29	0.0	0.0	0.0	0.0	0.0	2.5	1.3	2.7	1.1	1.1	5.2	10.4	12.0	18.4	22.8	49.3	7.1	3.7	C44	0.2	0.4
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46	0.0	0.0
Connective tissue	6	0.0	0.0	0.0	0.0	1.3	1.2	1.3	1.4	1.1	1.1	3.1	2.1	0.0	2.8	2.1	4.6	1.4	1.0	C47,C49	0.1	0.1
Breast	4	0.0	0.0	0.0	0.0	0.0	1.2	2.6	1.4	0.0	1.1	0.0	2.1	1.2	1.4	2.1	1.5	0.9	0.6	C50	0.0	0.1
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51	0.0	0.0
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52	0.0	0.0
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53	0.0	0.0
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54	0.0	0.0
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55	0.0	0.0
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56	0.0	0.0
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57	0.0	0.0
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58	0.0	0.0
Penis	10	0.0	0.0	0.0	0.0	1.3	0.0	0.0	2.7	2.3	4.2	0.0	4.2	1.2	5.6	12.4	9.2	2.4	1.5	C60	0.1	0.2
Prostate	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	8.3	9.4	31.1	60.7	80.7	129.4	17.1	8.2	C61	0.3	1.0
Testis	5	0.0	1.4	0.0	0.0	1.3	1.2	1.3	1.4	1.1	2.1	0.0	1.0	1.2	1.4	2.1	3.1	1.1	0.9	C62	0.1	0.1
Other male genital organs	1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.2	0.3	C63	0.0	0.0
Kidney	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	1.0	5.2	8.4	7.1	14.5	9.2	2.7	1.4	C64	0.1	0.2
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.1	0.0	C65	0.0	0.0
Ureter	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	4.1	1.5	0.3	0.2	C66	0.0	0.0
Bladder	27	0.0	0.0	0.0	0.0	0.0	0.0	2.6	1.4	1.1	5.3	1.0	9.4	13.2	11.3	24.8	47.8	6.5	3.4	C67	0.2	0.4
Eye	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.5	0.2	0.1	C69	0.0	0.0
Brain, nervous system	11	1.5	1.4	0.0	0.0	1.3	1.2	1.3	1.4	3.4	0.0	5.2	3.1	2.4	5.6	6.2	10.8	2.7	1.9	C70-72	0.1	0.2
Thyroid	9	0.0	0.0	0.0	0.0	1.3	0.0	1.3	2.7	4.6	2.1	0.0	6.2	1.2	2.8	8.3	6.2	2.2	1.4	C73	0.1	0.2
Adrenal gland	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.1	0.0	C74	0.0	0.0
Other endocrine	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.0	0.0	0.0	2.1	0.0	0.2	0.2	C75	0.0	0.0
Hodgkin disease	3	0.0	0.0	0.0	1.3	1.3	1.2	1.3	1.4	1.1	1.1	0.0	0.0	0.0	2.8	2.1	0.0	0.8	0.7	C81	0.0	0.1
Non-Hodgkin lymphoma	39	1.5	1.4	2.6	1.3	5.3	8.6	1.3	5.5	3.4	4.2	6.2	10.4	14.4	28.2	26.9	44.7	9.5	6.2	C82-85,C96	0.3	0.6
Multiple myeloma	6	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.4	0.0	1.1	0.0	3.1	6.0	2.8	4.1	6.2	1.5	0.9	C90	0.1	0.1
Lymphoid leukemia	2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	2.4	1.4	0.0	0.0	0.4	0.4	C91	0.0	0.0
Myeloid leukemia	14	0.0	0.0	1.3	3.8	1.3	2.5	1.3	4.1	3.4	1.1	2.1	3.1	9.6	1.4	8.3	12.3	3.3	2.4	C92-94	0.2	0.2
Leukemia unspecified	9	1.5	0.0	0.0	1.3	0.0	1.2	1.3	0.0	1.1	2.1	1.0	0.0	3.6	5.6	12.4	9.2	2.2	1.5	C95	0.1	0.2
Other and unspecified	27	0.0	0.0	1.3	1.3	0.0	2.5	1.3	1.4	6.9	6.3	8.3	7.3	12.0	15.5	24.8	21.6	6.4	4.0	O&U	0.2	0.4
All sites	**1,062**	**9.1**	**5.5**	**9.2**	**15.1**	**30.7**	**40.7**	**40.4**	**86.5**	**136.2**	**198.9**	**253.6**	**422.0**	**570.6**	**727.4**	**780.5**	**1,046.2**	**256.5**	**148.0**	**ALL**	**9.1**	**16.6**

Table 3.9.2 Suphan Buri (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	9.0	0.7	0.2	C00	0.0	0.0
Tongue	9	0.0	0.0	0.0	0.0	2.7	1.5	0.0	0.0	4.4	0.0	0.9	3.5	1.9	4.6	11.1	3.0	2.1	1.3	C01-02	0.1	0.2
Mouth	10	0.0	0.0	0.0	0.0	0.0	2.9	1.6	0.0	1.1	1.0	0.9	4.3	1.9	4.6	3.2	12.0	2.3	1.2	C03-06	0.1	0.1
Salivary glands	3	0.0	0.0	0.0	0.0	0.0	0.0	3.1	2.8	0.0	1.0	0.9	0.9	0.0	1.1	0.0	2.0	0.7	0.6	C07-08	0.0	0.0
Tonsil	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C09	0.0	0.0
Other oropharynx	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.1	0.0	C10	0.0	0.0
Nasopharynx	7	0.0	0.0	0.0	0.0	0.0	0.0	3.1	1.4	1.1	1.9	0.9	4.3	1.0	2.3	4.7	2.0	1.5	0.9	C11	0.1	0.1
Hypopharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.9	0.0	0.0	0.0	3.2	0.0	0.3	0.2	C12-13	0.0	0.0
Pharynx unspecified	0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C14	0.0	0.0
Oesophagus	11	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.8	0.0	1.0	1.8	1.7	1.0	8.0	7.9	12.0	2.5	1.2	C15	0.0	0.1
Stomach	26	0.0	0.0	0.0	0.0	0.0	1.5	0.0	2.8	5.5	2.9	4.4	12.2	4.8	9.1	17.4	23.0	5.8	2.8	C16	0.2	0.3
Small intestine	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.9	0.9	1.9	4.6	3.2	2.0	1.0	0.5	C17	0.0	0.1
Colon	110	0.0	0.0	0.0	0.0	4.0	0.0	3.1	7.0	9.9	19.2	26.5	29.5	43.1	56.0	64.8	93.2	24.7	11.7	C18	0.7	1.3
Rectum	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	4.4	3.8	10.6	14.8	11.5	19.4	25.3	34.1	9.0	4.2	C19-20	0.3	0.5
Anus	1	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.1	0.2	C21	0.0	0.0
Liver and bile duct	72	0.0	0.0	0.0	0.0	1.3	1.5	1.6	1.4	4.4	10.5	14.1	22.6	21.1	34.3	42.7	76.2	16.1	7.2	C22,C24	0.4	0.8
Gallbladder	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	2.6	1.0	3.4	4.7	8.0	1.5	0.6	C23	0.0	0.1
Pancreas	18	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.4	0.0	1.9	0.9	6.1	5.8	6.9	11.1	22.0	4.0	1.7	C25	0.1	0.2
Nose, sinuses etc.	2	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	2.7	0.0	1.0	0.0	1.6	0.0	0.4	0.3	C30-31	0.0	0.0
Larynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.1	0.0	3.0	0.4	0.1	C32	0.0	0.0
Trachea, Bronchus and lung	99	0.0	0.0	0.0	0.0	4.0	0.0	1.6	4.2	8.8	8.6	22.1	33.9	41.2	50.3	61.6	83.2	22.2	10.2	C33-34	0.6	1.2
Other thoracic organs	3	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.9	0.0	0.9	1.9	0.0	3.2	0.0	0.7	0.5	C37-38	0.0	0.1
Bone	9	0.0	1.5	1.4	2.6	1.3	0.0	1.6	0.0	2.2	1.9	0.0	0.0	2.9	3.4	3.2	8.0	1.9	1.4	C40-C41	0.1	0.1
Melanoma of skin	4	0.0	0.0	0.0	0.0	1.3	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.9	3.4	1.6	3.0	0.8	0.5	C43	0.0	0.0
Other skin	47	0.0	0.0	0.0	0.0	2.7	0.0	1.6	1.4	2.2	2.9	5.3	12.2	12.5	17.1	31.6	65.1	10.6	4.4	C44	0.2	0.4
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.1	0.0	C46	0.0	0.0
Connective tissue	5	0.0	0.0	0.0	0.0	0.0	1.5	1.6	0.0	0.0	2.9	1.8	0.9	2.9	0.0	0.0	4.0	1.1	0.7	C47,C49	0.1	0.1
Breast	271	0.0	0.0	0.0	0.0	6.7	17.5	27.9	68.2	79.3	99.7	111.3	116.3	97.8	94.9	79.0	57.1	60.7	38.1	C50	3.1	4.0
Vulva	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	3.2	7.0	0.8	0.3	C51	0.0	0.0
Vagina	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.9	1.0	0.0	0.0	2.0	0.4	0.2	C52	0.0	0.0
Cervix uteri	84	0.0	0.0	0.0	0.0	0.0	13.2	37.2	13.9	23.1	32.6	21.2	28.6	28.8	28.6	23.7	26.1	18.7	12.7	C53	1.0	1.3
Corpus uteri	32	0.0	0.0	0.0	0.0	0.0	1.5	4.7	2.8	4.4	4.8	6.2	17.4	19.2	13.7	17.4	12.0	7.2	3.9	C54	0.3	0.5
Uterus unspecified	5	0.0	0.0	0.0	0.0	0.0	1.5	1.6	1.4	0.0	0.0	2.7	4.3	1.0	0.0	0.0	3.0	1.1	0.7	C55	0.1	0.1
Ovary	45	0.0	0.0	0.0	3.9	2.7	2.9	6.2	11.1	14.3	16.3	14.1	16.5	17.3	13.7	11.1	13.0	10.0	6.6	C56	0.5	0.7
Other female genital organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.1	0.1	C57	0.0	0.0
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C58	0.0	0.0
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60	0.0	0.0
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61	0.0	0.0
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62	0.0	0.0
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63	0.0	0.0
Kidney	9	0.0	0.0	0.0	1.3	0.0	2.9	1.6	0.0	1.1	1.0	2.7	5.2	3.8	3.4	0.0	5.0	2.0	1.3	C64	0.1	0.1
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.1	0.0	C65	0.0	0.0
Ureter	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.2	0.1	C66	0.0	0.0
Bladder	9	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	2.2	1.0	0.9	0.9	4.8	1.1	7.9	9.0	1.9	0.9	C67	0.1	0.1
Eye	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	1.0	0.1	0.1	C69	0.0	0.0
Brain, nervous system	12	0.0	4.4	0.0	0.0	1.3	1.5	4.7	2.8	2.2	5.8	5.3	3.5	2.9	1.1	3.2	3.0	2.8	2.3	C70-72	0.2	0.2
Thyroid	40	0.0	0.0	2.7	1.3	4.0	10.2	14.0	19.5	16.5	14.4	14.1	6.9	4.8	6.9	11.1	12.0	9.0	7.2	C73	0.5	0.6
Adrenal gland	1	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.1	0.1	C74	0.0	0.0
Other endocrine	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.2	0.2	C75	0.0	0.0
Hodgkin disease	1	0.0	0.0	0.0	0.0	1.3	1.5	0.0	1.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	C81	0.0	0.0
Non-Hodgkin lymphoma	36	0.0	1.5	0.0	1.3	0.0	5.8	3.1	4.2	7.7	6.7	4.4	10.4	8.6	12.6	25.3	29.1	8.0	4.5	C82-85,C96	0.3	0.5
Multiple myeloma	9	0.0	0.0	0.0	0.0	1.3	0.0	0.0	1.4	0.0	1.0	0.9	5.2	3.8	2.3	11.1	3.0	1.9	1.0	C90	0.1	0.1
Lymphoid leukemia	2	0.0	2.9	1.4	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.0	1.1	1.6	0.0	0.5	0.6	C91	0.0	0.0
Myeloid leukemia	12	0.0	0.0	0.0	0.0	1.3	1.5	1.6	4.2	2.2	1.0	2.7	2.6	4.8	9.1	6.3	5.0	2.8	1.7	C92-94	0.1	0.2
Leukemia unspecified	6	1.6	1.5	0.0	2.6	1.3	0.0	3.1	1.4	0.0	1.9	0.0	0.9	1.0	1.1	3.2	4.0	1.4	1.3	C95	0.1	0.1
Other and unspecified	25	1.6	0.0	0.0	3.9	1.3	0.0	0.0	1.4	3.3	1.0	5.3	9.5	5.8	12.6	12.6	23.0	5.6	3.0	O&U	0.2	0.3
All sites	**1,103**	**3.2**	**13.2**	**5.5**	**18.1**	**38.9**	**73.1**	**130.2**	**165.7**	**209.3**	**254.1**	**287.1**	**381.9**	**369.1**	**435.4**	**518.2**	**683.4**	**247.0**	**139.8**	**ALL**	**9.7**	**14.5**

Table 3.9.3 Mean annual incidence, Suphan Buri, 2019-2021

Site	Male						Female						ICD-10
	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	
Lip	0	0.0	0.1	0.0	0.0	0.0	3	0.3	0.7	0.2	0.0	0.0	C00
Tongue	22	2.1	5.3	3.4	0.3	0.4	9	0.8	2.1	1.3	0.1	0.2	C01-02
Mouth	18	1.7	4.3	2.8	0.2	0.3	10	0.9	2.3	1.2	0.1	0.1	C03-06
Salivary glands	3	0.3	0.8	0.5	0.0	0.1	3	0.3	0.7	0.6	0.0	0.0	C07-08
Tonsil	12	1.1	2.8	1.7	0.2	0.2	0	0.0	0.1	0.1	0.0	0.0	C09
Other oropharynx	6	0.6	1.4	0.9	0.1	0.1	0	0.0	0.1	0.0	0.0	0.0	C10
Nasopharynx	12	1.2	3.0	2.0	0.2	0.2	7	0.6	1.5	0.9	0.1	0.1	C11
Hypopharynx	17	1.6	4.1	2.4	0.2	0.3	1	0.1	0.3	0.2	0.0	0.0	C12-13
Pharynx unspecified	1	0.1	0.2	0.1	0.0	0.0	0	0.0	0.1	0.1	0.0	0.0	C14
Oesophagus	52	4.9	12.6	7.4	0.6	0.9	11	1.0	2.5	1.2	0.0	0.1	C15
Stomach	27	2.6	6.6	3.6	0.2	0.4	26	2.3	5.8	2.8	0.2	0.3	C16
Small intestine	4	0.4	1.0	0.6	0.1	0.1	4	0.4	1.0	0.5	0.0	0.1	C17
Colon	119	11.2	28.7	15.7	0.9	1.9	110	10.0	24.7	11.7	0.7	1.3	C18
Rectum	68	6.4	16.4	9.5	0.7	1.1	40	3.6	9.0	4.2	0.3	0.5	C19-20
Anus	1	0.1	0.2	0.1	0.0	0.0	1	0.1	0.1	0.2	0.0	0.0	C21
Liver and bile duct	171	16.1	41.3	24.1	1.7	2.8	72	6.5	16.1	7.2	0.4	0.8	C22,C24
Gallbladder	3	0.3	0.7	0.4	0.0	0.0	7	0.6	1.5	0.6	0.0	0.1	C23
Pancreas	25	2.4	6.1	3.4	0.2	0.4	18	1.6	4.0	1.7	0.1	0.2	C25
Nose, sinuses etc.	3	0.3	0.7	0.4	0.0	0.1	2	0.2	0.4	0.3	0.0	0.0	C30-31
Larynx	20	1.9	4.8	2.7	0.2	0.3	2	0.2	0.4	0.1	0.0	0.0	C32
Trachea, Bronchus and lung	175	16.4	42.2	22.5	1.2	2.6	99	9.0	22.2	10.2	0.6	1.2	C33-34
Other thoracic organs	4	0.4	1.0	0.7	0.0	0.1	3	0.3	0.7	0.5	0.0	0.1	C37-38
Bone	7	0.7	1.8	1.7	0.1	0.1	9	0.8	1.9	1.4	0.1	0.1	C40-C41
Melanoma of skin	4	0.4	1.0	0.5	0.0	0.0	4	0.3	0.8	0.5	0.0	0.0	C43
Other skin	29	2.8	7.1	3.7	0.2	0.4	47	4.3	10.6	4.4	0.2	0.4	C44
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C46
Connective tissue	6	0.5	1.4	1.0	0.1	0.1	5	0.5	1.1	0.7	0.1	0.1	C47,C49
Breast	4	0.3	0.9	0.6	0.0	0.1	271	24.5	60.7	38.1	3.1	4.0	C50
Vulva							4	0.3	0.8	0.3	0.0	0.0	C51
Vagina							2	0.2	0.4	0.2	0.0	0.0	C52
Cervix uteri							84	7.6	18.7	12.7	1.0	1.3	C53
Corpus uteri							32	2.9	7.2	3.9	0.3	0.5	C54
Uterus unspecified							5	0.5	1.1	0.7	0.1	0.1	C55
Ovary							45	4.0	10.0	6.6	0.5	0.7	C56
Other female genital organs							1	0.1	0.1	0.1	0.0	0.0	C57
Placenta							0	0.0	0.1	0.1	0.0	0.0	C58
Penis	10	0.9	2.4	1.5	0.1	0.2							C60
Prostate	71	6.7	17.1	8.2	0.3	1.0							C61
Testis	5	0.4	1.1	0.9	0.1	0.1							C62
Other male genital organs	1	0.1	0.2	0.3	0.0	0.0							C63
Kidney	11	1.0	2.7	1.4	0.1	0.2	9	0.8	2.0	1.3	0.1	0.1	C64
Renal pelvis	0	0.0	0.1	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C65
Ureter	1	0.1	0.3	0.2	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C66
Bladder	27	2.5	6.5	3.4	0.2	0.4	9	0.8	1.9	0.9	0.1	0.1	C67
Eye	1	0.1	0.2	0.1	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C69
Brain, nervous system	11	1.0	2.7	1.9	0.1	0.2	12	1.1	2.8	2.3	0.2	0.2	C70-72
Thyroid	9	0.8	2.2	1.4	0.1	0.2	40	3.6	9.0	7.2	0.5	0.6	C73
Adrenal gland	0	0.0	0.1	0.0	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C74
Other endocrine	1	0.1	0.2	0.2	0.0	0.0	1	0.1	0.2	0.2	0.0	0.0	C75
Hodgkin disease	3	0.3	0.8	0.7	0.0	0.1	1	0.1	0.3	0.4	0.0	0.0	C81
Non-Hodgkin lymphoma	39	3.7	9.5	6.2	0.3	0.6	36	3.2	8.0	4.5	0.3	0.5	C82-85,C96
Multiple myeloma	6	0.6	1.5	0.9	0.1	0.1	9	0.8	1.9	1.0	0.1	0.1	C90
Lymphoid leukemia	2	0.2	0.4	0.4	0.0	0.0	2	0.2	0.5	0.6	0.0	0.0	C91
Myeloid leukemia	14	1.3	3.3	2.4	0.2	0.2	12	1.1	2.8	1.7	0.1	0.2	C92-94
Leukemia unspecified	9	0.8	2.2	1.5	0.1	0.2	6	0.6	1.4	1.3	0.1	0.1	C95
Other and unspecified	27	2.5	6.4	4.0	0.2	0.4	25	2.3	5.6	3.0	0.2	0.3	O&U
All sites	**1,062**	**100.0**	**256.5**	**148.0**	**9.1**	**16.6**	**1,103**	**100.0**	**247.0**	**139.8**	**9.7**	**14.5**	**ALL**

Table 3.9.4 Percentage of morphologically verified and death certificate only cases, Suphan Buri

Site	Male			Female			ICD-10
	Cases 3 Year	%MV	%DCO	Cases 3 Year	%MV	%DCO	
Oral cavity	131	85.5	0.8	79	70.9	2.5	C00-C08
Oropharynx	56	91.1	3.6	3	33.3	0.0	C09-C10,C14
Nasopharynx	37	70.3	5.4	20	75.0	10.0	C11
Hypopharynx	51	90.2	2.0	4	50.0	0.0	C12-C13
Esophagus	157	87.3	4.5	33	72.7	6.1	C15
Stomach	82	74.4	2.4	77	79.2	5.2	C16
Small intestine	12	41.7	8.3	13	61.5	0.0	C17
Colon and rectum	562	91.5	0.7	453	90.1	0.9	C18-C21
Liver and bile duct	513	30.2	4.1	216	31.5	6.0	C22,C24
Gallbladder	9	33.3	0.0	20	15.0	5.0	C23
pancrease	76	34.2	5.3	53	35.8	3.8	C25
Nose,sinuses etc	9	55.6	0.0	6	50.0	0.0	C30-C31
Larynx	60	71.7	1.7	5	40.0	0.0	C32
Trachea, brochus and lung	524	77.3	5.5	298	81.9	3.0	C33-C34
Other thoracic organs	12	50.0	0.0	9	88.9	0.0	C37-C38
Bone	22	22.7	0.0	26	11.5	0.0	C40-C41
Melanoma of skin	13	100.0	0.0	11	100.0	0.0	C43
Other skin	88	87.5	3.4	142	88.7	0.7	C44
Mesothelioma	0	0.0	0.0	0	0.0	0.0	C45
Kaposi sarcoma	0	0.0	0.0	1	100.0	0.0	C46
Connective and soft tissue	17	76.5	0.0	15	66.7	0.0	C47,C49
Breast	11	72.7	0.0	812	88.8	0.9	C50
Vulva				11	63.6	0.0	C51
Vagina				5	80.0	0.0	C52
Cervix uteri				251	80.9	2.4	C53
Corpus uteri				97	85.6	2.1	C54
Uterus unspecified				15	46.7	6.7	C55
Ovary				134	77.6	2.2	C56
Other female genital organs				2	50.0	0.0	C57
Placenta				1	100.0	0.0	C58
Penis	30	83.3	0.0				C60
Prostate	212	79.7	2.4				C61
Testis	14	28.6	0.0				C62
Other male genital organs	3	33.3	0.0				C63
Kidney	33	45.5	0.0	27	29.6	0.0	C64
Renal pelvis	1	0.0	0.0	1	0.0	0.0	C65
Ureter	4	75.0	0.0	3	0.0	0.0	C66
Bladder	81	84.0	0.0	27	70.4	3.7	C67
Other urinary organs	0	0.0	0.0	0	0.0	0.0	C68
Eye	2	0.0	0.0	2	0.0	0.0	C69
Brain, nervous system	33	39.4	9.1	37	40.5	8.1	C70-C72
Thyroid	27	81.5	0.0	120	85.0	0.0	C73
Adrenal gland	1	0.0	0.0	2	0.0	0.0	C74
Other endocrine	3	0.0	0.0	3	33.3	33.3	C75
Hodgkin disease	10	100.0	0.0	4	100.0	0.0	C81
Non-Hodgkin lymphoma	118	100.0	0.0	107	100.0	0.0	C82-C85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	19	100.0	0.0	26	100.0	0.0	C90
Leukemia	73	100.0	0.0	63	100.0	0.0	C91-C95
Myelodysplastic	0	0.0	0.0	0	0.0	0.0	D45-D47
Other and unspecified	81	46.9	18.5	76	40.8	18.4	O&U
All sites	**3,187**	**71.8**	**3.2**	**3,310**	**77.9**	**2.4**	**All**
All sites without liver	**2,674**	**79.8**	**3.0**	**3,094**	**81.2**	**2.1**	**All**

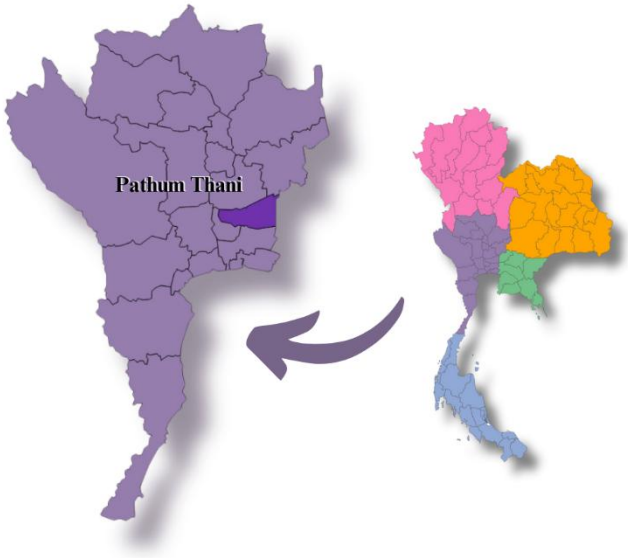
3.10 Pathum Thani Cancer Registry

Registration area

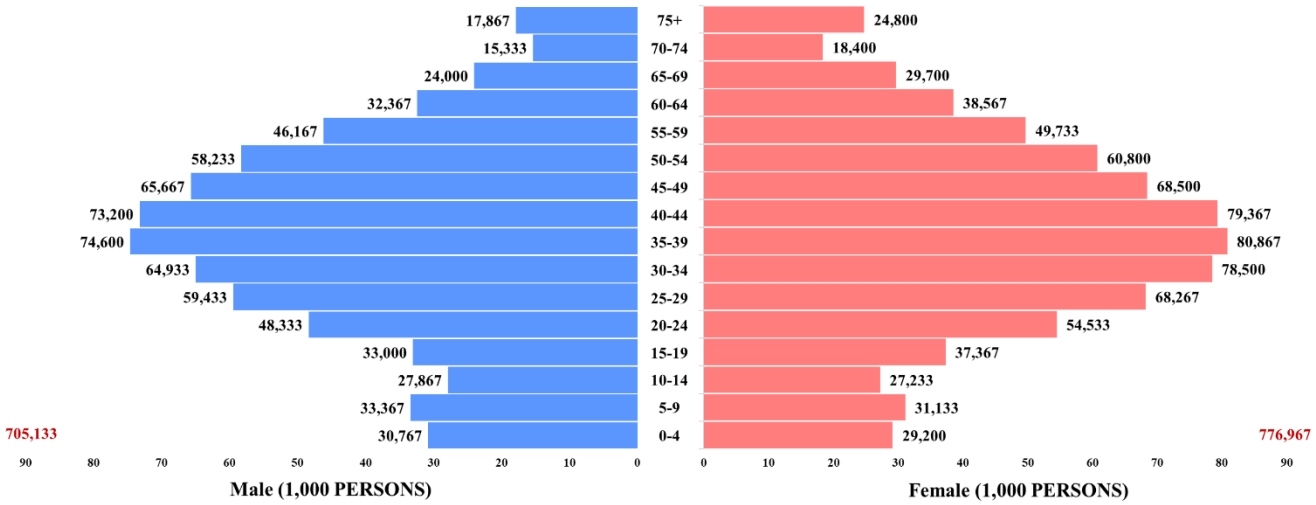
Pathum Thani Province is located in central Thailand, just north of Bangkok and is part of the Bangkok Metropolitan Region. It serves as a residential, industrial and educational hub, renowned for its historical significance, agricultural roots and rapid modernization.

Covering an area of 1,525 square kilometers, the province is traversed by the Chao Phraya River, which provides fertile land and serves as a vital waterway. The provincial capital is Mueang Pathum Thani and the province is divided into seven districts: Mueang Pathum Thani, Khlong Luang, Thanyaburi, Nong Suea, Lat Lum Kaeo, Lam Luk Ka and Sam Khok.

With a population of approximately 1.1 million (2023 estimate), the province hosts a mix of local residents and individuals from nearby areas who work or study here. Pathum Thani is an industrial hub with major estates such as the Nava Nakorn Industrial Promotion Zone and Bangkadi Industrial Park. It is also a renowned educational center, home to prestigious institutions such as Thammasat University (Rangsit Campus) and the Asian Institute of Technology (AIT).



Population pyramid Rayong
estimated population in 2020 (2019 – 2021)



Cancer care facilities

Pathum Thani Province has a total of 18 hospitals, categorized into four types. These include:

- 1 regional hospital: Pathum Thani Hospital
- 1 general hospital: Thanyaburi Hospital
- 4 community hospitals: Prachathipat Hospital, Lam Luk Ka Hospital, Nong Suea Hospital and Sam Khok Hospital
- 13 private hospitals, such as Mueang Pathum Hospital, Somphop Hospital, Inter Nakhon Nayok Hospital, Vibhavadi Rangsit Hospital, Khlong Luang Hospital and others.

This network of hospitals provides comprehensive healthcare services to the population across the province.

Registry procedures

The population-based cancer registry of Pathum Thani Province was established by the Cancer Registry Unit of Mahavajiralongkorn Thanyaburi Hospital. Data on cancer patients is collected using passive methods, with notifications from :

- 1 regional hospital : Pathum Thani Hospital
- 1 general hospital : Thanyaburi Hospital
- 4 community hospitals : Prachathipat Hospital, Lam Luk Ka Hospital, Nong Suea Hospital and Sam Khok Hospital

These facilities operate under the supervision of the Pathum Thani Provincial Public Health Office.

New cancer cases are documented from various departments, including outpatient and inpatient units, radiotherapy, surgery, cytology, hematology, pathology and autopsy services. The data collected includes detailed demographic and clinical information for each patient, such as:

- Registry number, name, address, date of birth, age, sex
- Date of diagnosis, cancer site, histology, cancer staging, extent of disease
- Method of diagnosis, treatment details, date of last contact and vital status

Death data for all causes is sourced from the Bureau of Health Policy and Strategy, Ministry of Public Health. Follow-up for all registered cases is conducted using passive methods by linking the registry database with the National Health Security Office.

The primary site and histology are coded according to the ICD-O, third edition. Second primary cancers are also registered, with each new primary cancer assigned a separate registration number.

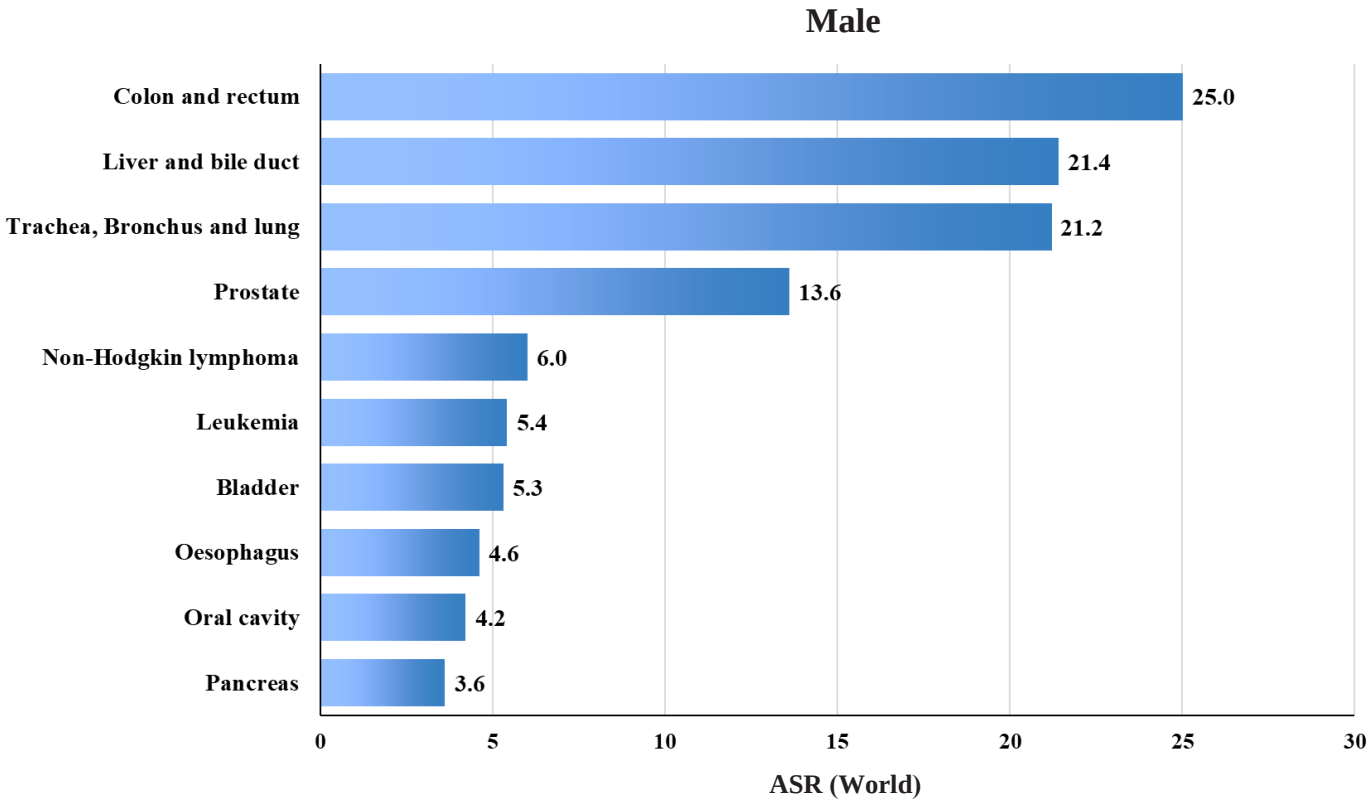
All death certificates are matched with registry records. If no additional information is available, individuals certified as having died from cancer are classified as Death Certificate Only (DCO) cases. Data is verified with the Department of Provincial Administration, Ministry of Interior, to confirm the date and cause of death.

The final dataset undergoes manual checking and is entered into the database using Cancer5 software for data entry and analysis. Cases of carcinoma in situ are registered but excluded from the analysis.

Summary of results

New cases registered in 2020 included 1,303 males and 1,495 females, totaling 2,798 cases for both sexes. The age-standardized incidence rate (ASR) of all cancer sites in males was 147.2 per 100,000, with colon and rectum cancer ranking first (ASR = 25.0), followed by liver and bile duct cancer (ASR = 21.4) and trachea, bronchus and lung cancer (ASR = 21.2). The ASR of all cancer sites in females was 138.2 per 100,000, with the three leading cancer sites being breast cancer (ASR = 40.5), colon and rectum cancer (ASR = 15.3) and trachea, bronchus and lung cancer (ASR = 10.9).

Figure 3.10.1 Leading cancer in Pathum Thani (mean annual ASR 2019-2021)



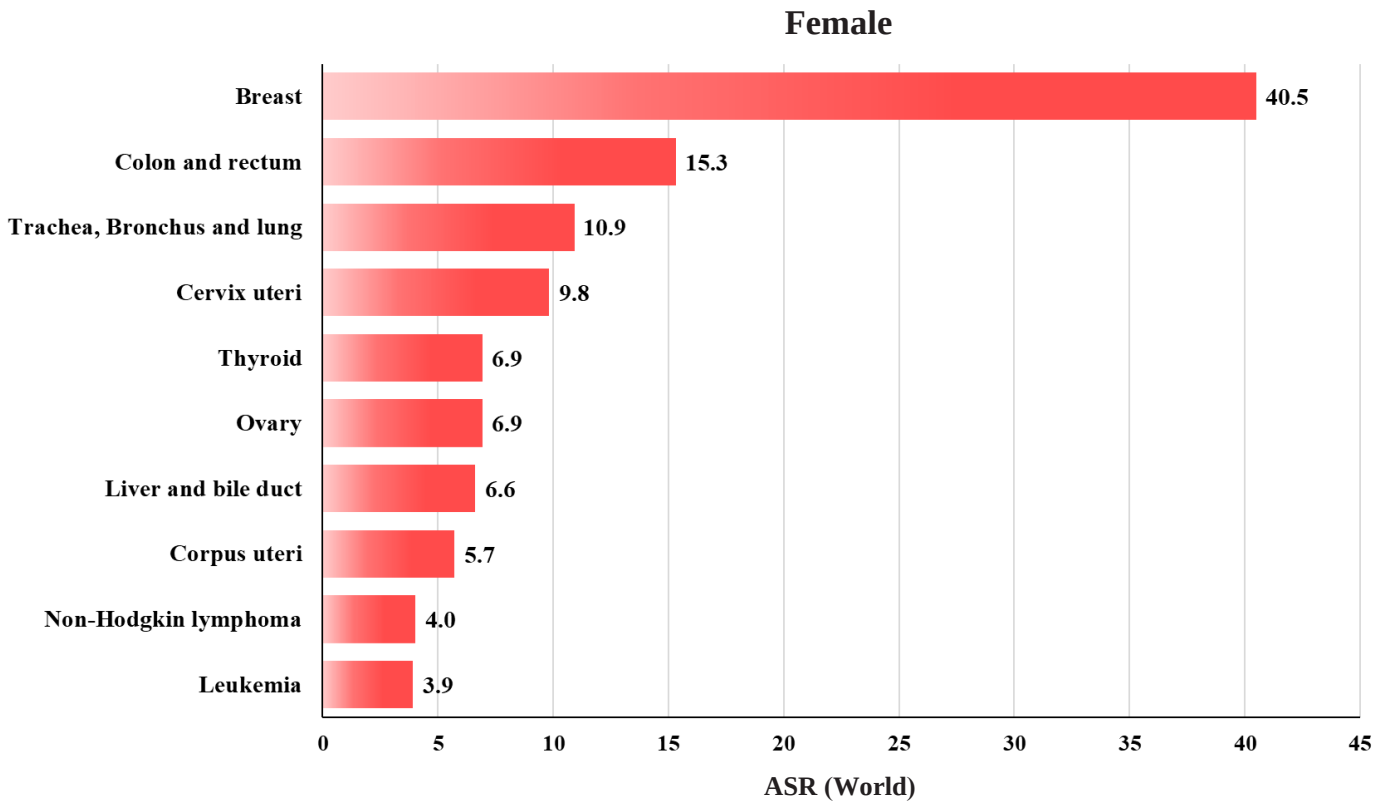


Table 3.10.1 Pathum Thani (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C00	0.0	0.0
Tongue	21	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.3	1.4	4.1	4.6	10.1	12.4	4.2	17.4	7.5	3.0	2.2	C01-02	0.2	0.3
Mouth	15	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4	0.5	0.5	4.0	5.8	7.2	12.5	13.0	7.5	2.1	1.6	C03-06	0.1	0.2
Salivary glands	3	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.5	0.6	0.7	1.0	4.2	0.0	3.7	0.5	0.4	C07-08	0.0	0.0
Tonsil	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.4	2.5	1.7	3.6	6.2	2.8	10.9	3.7	1.6	1.2	C09	0.1	0.2
Other oropharynx	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	3.0	1.7	4.3	9.3	5.6	4.3	7.5	1.7	1.3	C10	0.1	0.1
Nasopharynx	17	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.9	2.7	1.0	6.3	8.7	6.2	1.4	10.9	5.6	2.4	1.7	C11	0.1	0.2
Hypopharynx	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.5	4.6	9.4	11.3	8.3	8.7	7.5	2.3	1.7	C12-13	0.1	0.2
Pharynx unspecified	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	0.0	1.0	0.0	0.0	3.7	0.3	0.2	C14	0.0	0.0
Oesophagus	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.4	4.6	10.3	17.3	29.9	31.9	19.6	24.3	6.1	4.6	C15	0.3	0.6
Stomach	15	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4	0.5	1.5	5.2	4.3	6.2	9.7	8.7	14.9	2.2	1.6	C16	0.1	0.2
Small intestine	7	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.4	0.9	2.5	0.0	2.2	3.1	2.8	0.0	7.5	1.0	0.7	C17	0.0	0.1
Colon	144	0.0	0.0	0.0	0.0	0.0	0.6	3.6	4.0	5.0	14.2	17.2	38.3	90.6	90.3	113.0	164.2	20.4	15.9	C18	0.9	1.9
Rectum	81	0.0	0.0	1.2	0.0	0.0	1.1	0.5	3.1	4.6	6.1	13.7	27.4	25.7	70.8	71.7	72.8	11.5	8.9	C19-20	0.4	1.1
Anus	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.5	0.0	0.0	2.1	0.0	0.0	1.9	0.3	0.2	C21	0.0	0.0
Liver and bile duct	201	0.0	0.0	0.0	0.0	0.0	1.7	1.0	5.8	11.4	24.4	45.8	78.0	116.4	120.8	121.7	128.7	28.6	21.4	C22,C24	1.4	2.6
Gallbladder	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	2.2	2.1	1.4	6.5	1.9	0.5	0.4	C23	0.0	0.1
Pancreas	33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.0	9.7	9.4	14.4	25.0	37.0	24.3	4.6	3.6	C25	0.2	0.5
Nose, sinuses etc.	6	0.0	0.0	1.2	0.0	1.4	0.0	0.0	0.4	1.4	0.0	2.9	1.4	3.1	0.0	0.0	1.9	0.9	0.7	C30-31	0.1	0.1
Larynx	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.0	6.3	6.5	5.1	19.4	15.2	18.7	3.0	2.3	C32	0.1	0.3
Trachea, Bronchus and lung	193	0.0	0.0	0.0	1.0	2.1	0.6	1.5	3.6	8.2	12.2	32.1	58.5	92.7	119.4	158.7	250.0	27.3	21.2	C33-34	1.1	2.5
Other thoracic organs	4	0.0	0.0	1.2	1.0	0.0	0.0	0.0	0.4	0.0	0.0	2.3	0.0	1.0	1.4	2.2	3.7	0.6	0.5	C37-38	0.0	0.0
Bone	8	1.1	0.0	3.6	1.0	1.4	1.1	1.0	0.9	0.0	0.5	1.1	1.4	2.1	2.8	2.2	3.7	1.2	1.3	C40-C41	0.1	0.1
Melanoma of skin	3	0.0	0.0	0.0	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.0	4.2	2.2	1.9	0.5	0.5	C43	0.0	0.1
Other skin	20	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.9	1.4	1.5	2.3	2.9	8.2	12.5	19.6	31.7	2.8	2.2	C44	0.1	0.3
Connective tissue	13	1.1	1.0	1.2	1.0	1.4	0.6	0.0	1.3	0.9	1.0	4.6	1.4	5.1	9.7	4.3	3.7	1.9	1.7	C47,C49	0.1	0.2
Breast	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.5	1.7	1.4	0.0	4.2	2.2	5.6	0.7	0.5	C50	0.0	0.1
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51	0.0	0.0
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52	0.0	0.0
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53	0.0	0.0
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54	0.0	0.0
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55	0.0	0.0
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56	0.0	0.0
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57	0.0	0.0
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58	0.0	0.0
Penis	5	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.6	0.7	2.1	6.9	6.5	3.7	0.7	0.6	C60	0.0	0.1
Prostate	116	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	1.0	2.3	10.8	37.1	76.4	158.7	298.5	16.4	13.6	C61	0.3	1.4
Testis	6	0.0	0.0	0.0	2.0	2.1	2.8	0.0	1.3	0.0	0.0	0.6	0.0	1.0	1.4	2.2	0.0	0.8	0.8	C62	0.0	0.1
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63	0.0	0.0
Kidney	21	1.1	0.0	0.0	0.0	0.7	0.6	0.5	0.0	1.4	1.0	1.1	5.1	13.4	13.9	19.6	24.3	3.0	2.5	C64	0.1	0.3
Renal pelvis	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	8.7	1.9	0.3	0.3	C65	0.0	0.1
Ureter	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.0	0.0	0.0	0.0	0.1	0.1	C66	0.0	0.0
Bladder	45	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	4.6	7.9	22.7	33.3	60.9	70.9	6.4	5.3	C67	0.2	0.7
Other urinary organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.4	0.0	0.0	0.1	0.1	C68	0.0	0.0
Eye	2	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.5	0.5	0.6	0.0	0.0	1.4	0.0	1.9	0.3	0.2	C69	0.0	0.0
Brain, nervous system	20	2.2	2.0	4.8	0.0	0.0	0.6	1.0	1.8	2.3	5.6	3.4	5.1	5.1	4.2	4.3	13.1	2.9	2.6	C70-72	0.2	0.2
Thyroid	19	0.0	1.0	0.0	1.0	0.7	0.6	0.5	3.1	2.3	2.5	5.2	5.1	8.2	4.2	10.9	5.6	2.7	2.0	C73	0.2	0.2
Adrenal gland	1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.7	1.0	0.0	0.0	0.0	0.2	0.2	C74	0.0	0.0
Other endocrine	1	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	C75	0.0	0.0
Hodgkin disease	3	0.0	0.0	0.0	0.0	0.7	0.6	1.0	0.4	0.0	0.5	0.6	0.0	1.0	1.4	0.0	0.0	0.4	0.3	C81	0.0	0.0
Non-Hodgkin lymphoma	47	1.1	5.0	3.6	4.0	3.4	3.4	0.5	2.2	3.6	6.6	8.0	9.4	14.4	20.8	32.6	35.4	6.7	6.0	C82-85,C96	0.3	0.6
Multiple myeloma	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	2.9	2.9	4.1	8.3	4.3	9.3	1.4	1.0	C90	0.1	0.1
Lymphoid leukemia	8	1.1	2.0	4.8	3.0	0.7	0.0	0.0	0.4	0.9	0.5	0.0	0.7	4.1	2.8	0.0	5.6	1.2	1.6	C91	0.1	0.1
Myeloid leukemia	15	1.1	0.0	1.2	2.0	0.0	1.1	1.0	0.4	1.8	1.0	2.3	4.3	7.2	4.2	6.5	14.9	2.2	1.9	C92-94	0.1	0.2
Leukemia unspecified	13	2.2	2.0	1.2	3.0	0.0	0.6	0.0	1.3	0.0	0.5	4.6	3.6	2.1	6.9	6.5	5.6	1.8	1.9	C95	0.1	0.2
Other and unspecified	63	0.0	0.0	0.0	2.0	0.7	1.1	0.5	2.7	3.6	2.5	8.0	13.0	34.0	36.1	65.2	80.2	8.9	7.2	O&U	0.3	0.8
All sites	**1,303**	**13.0**	**13.0**	**23.9**	**26.3**	**16.6**	**19.1**	**15.9**	**42.0**	**64.2**	**113.2**	**224.4**	**366.1**	**623.1**	**791.7**	**1,037.0**	**1,378.7**	**184.7**	**147.2**	**ALL**	**7.8**	**16.9**

Table 3.10.2 Pathum Thani (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C00	0.0	0.0
Tongue	9	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8	0.5	3.3	0.0	5.2	5.6	0.0	6.7	1.2	0.8	C01-02	0.1	0.1
Mouth	7	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.4	0.0	0.0	1.6	0.7	5.2	3.4	0.0	8.1	0.9	0.8	C03-06	0.0	0.1
Salivary glands	3	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.4	0.0	0.0	0.5	1.3	0.9	1.1	1.8	0.0	0.4	0.3	C07-08	0.0	0.0
Tonsil	2	1.1	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.5	0.0	0.7	1.7	0.0	0.0	0.0	0.3	0.3	C09	0.0	0.0
Other oropharynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.5	0.7	0.9	1.1	1.8	1.3	0.3	0.2	C10	0.0	0.0
Nasopharynx	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.3	1.0	3.3	2.0	2.6	1.1	5.4	1.3	1.1	0.7	C11	0.1	0.1
Hypopharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.1	0.1	C12-13	0.0	0.0
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C14	0.0	0.0
Oesophagus	4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	1.0	0.0	1.3	0.9	1.1	1.8	5.4	0.5	0.3	C15	0.0	0.0
Stomach	24	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.6	2.1	3.4	3.8	6.0	6.9	11.2	14.5	17.5	3.1	2.1	C16	0.1	0.2
Small intestine	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	1.6	2.0	0.0	2.2	1.8	1.3	0.5	0.3	C17	0.0	0.0
Colon	110	0.0	0.0	1.2	0.0	0.0	1.0	0.0	2.5	5.9	8.8	14.8	28.2	44.1	52.7	92.4	95.4	14.2	10.2	C18	0.5	1.3
Rectum	52	0.0	0.0	0.0	0.0	0.6	1.0	0.0	1.6	2.1	8.8	10.4	14.1	20.7	20.2	25.4	41.7	6.7	4.7	C19-20	0.3	0.5
Anus	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	1.6	0.7	0.9	4.5	0.0	2.7	0.5	0.4	C21	0.0	0.0
Liver and bile duct	73	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	2.1	2.9	7.1	27.5	26.8	40.4	47.1	78.0	9.4	6.6	C22,C24	0.3	0.8
Gallbladder	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.5	1.1	2.7	6.1	4.5	3.6	8.1	1.2	0.8	C23	0.1	0.1
Pancreas	25	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	1.3	1.5	3.3	4.0	10.4	11.2	9.1	40.3	3.3	2.3	C25	0.1	0.2
Nose, sinuses etc.	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	3.6	1.3	0.2	0.1	C30-31	0.0	0.0
Larynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.9	0.0	0.0	4.0	0.2	0.1	C32	0.0	0.0
Trachea, Bronchus and lung	120	0.0	0.0	0.0	0.9	0.6	0.5	1.7	1.6	7.6	11.2	15.9	30.8	44.1	49.4	83.3	122.3	15.4	10.9	C33-34	0.6	1.2
Other thoracic organs	3	0.0	0.0	1.2	0.9	0.6	0.0	0.0	0.4	0.4	0.0	0.5	0.0	0.9	1.1	1.8	0.0	0.4	0.4	C37-38	0.0	0.0
Bone	7	0.0	1.1	1.2	1.8	0.6	0.0	1.7	0.4	0.8	0.0	0.0	0.7	2.6	1.1	1.8	2.7	0.9	0.9	C40-C41	0.1	0.1
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.0	0.0	2.6	0.0	0.0	1.3	0.3	0.2	C43	0.0	0.0
Other skin	18	0.0	0.0	0.0	0.0	0.0	0.5	0.4	0.0	0.0	1.9	1.6	4.7	0.9	7.9	14.5	30.9	2.4	1.6	C44	0.1	0.2
Connective tissue	10	1.1	0.0	0.0	0.0	1.2	2.0	0.4	0.4	0.4	0.5	1.1	2.7	6.1	1.1	5.4	4.0	1.3	1.1	C47,C49	0.1	0.1
Breast	462	0.0	0.0	0.0	0.9	4.9	4.9	11.5	31.3	61.3	113.4	122.3	152.8	134.0	136.9	134.1	110.2	59.4	40.5	C50	3.2	4.5
Vulva	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.5	0.0	2.7	0.0	1.1	0.0	0.0	0.4	0.3	C51	0.0	0.0
Vagina	2	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.5	1.1	0.0	1.7	0.0	0.0	1.3	0.3	0.2	C52	0.0	0.0
Cervix uteri	112	0.0	0.0	0.0	0.0	1.8	4.4	6.4	6.6	16.0	18.5	31.2	36.2	32.0	29.2	30.8	36.3	14.5	9.8	C53	0.8	1.1
Corpus uteri	64	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.1	6.7	8.8	12.6	26.1	28.5	25.8	29.0	21.5	8.2	5.7	C54	0.4	0.7
Uterus unspecified	5	0.0	0.0	0.0	0.0	0.0	0.5	0.4	0.0	0.0	0.0	0.5	0.0	1.7	5.6	7.2	1.3	0.6	0.5	C55	0.0	0.1
Ovary	74	0.0	1.1	1.2	2.7	2.4	3.9	1.7	2.1	8.0	14.1	19.7	22.1	20.7	23.6	16.3	32.3	9.5	6.9	C56	0.5	0.7
Other female genital organs	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.7	1.7	2.2	0.0	0.0	0.3	0.2	C57	0.0	0.0
Placenta	1	0.0	0.0	0.0	0.9	0.6	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	C58	0.0	0.0
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60	0.0	0.0
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61	0.0	0.0
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62	0.0	0.0
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63	0.0	0.0
Kidney	11	3.4	1.1	0.0	0.0	0.0	0.0	0.4	0.4	1.0	1.1	2.7	5.2	3.4	7.2	8.1	1.4	1.4	C64	0.1	0.1
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	C65	0.0	0.0
Ureter	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	C66	0.0	0.0
Bladder	14	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.4	1.0	0.0	3.4	5.2	3.4	18.1	20.2	1.8	1.3	C67	0.1	0.2
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C68	0.0	0.0
Eye	1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.3	0.1	0.2	C69	0.0	0.0
Brain, nervous system	25	1.1	3.2	1.2	1.8	0.6	1.0	0.4	0.8	2.5	4.9	4.4	6.7	6.9	7.9	9.1	10.8	3.2	2.8	C70-72	0.2	0.3
Thyroid	76	0.0	0.0	0.0	2.7	5.5	5.4	6.4	10.7	9.2	19.0	14.3	15.4	20.7	13.5	12.7	13.4	9.7	6.9	C73	0.5	0.7
Adrenal gland	1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.1	0.0	0.0	0.1	0.2	C74	0.0	0.0
Other endocrine	2	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	1.0	0.0	0.7	0.0	2.2	0.0	0.0	0.3	0.2	C75	0.0	0.0
Hodgkin disease	5	0.0	0.0	0.0	1.8	2.4	2.0	0.0	0.4	0.0	0.0	0.0	1.3	0.0	2.2	0.0	0.0	0.6	0.7	C81	0.0	0.1
Non-Hodgkin lymphoma	41	0.0	1.1	0.0	2.7	2.4	1.5	1.7	1.6	1.7	6.8	4.9	10.7	17.3	13.5	18.1	24.2	5.2	4.0	C82-85,C96	0.3	0.4
Multiple myeloma	11	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.4	0.0	1.0	1.1	4.0	3.5	3.4	10.9	9.4	1.4	1.0	C90	0.1	0.1
Lymphoid leukemia	9	1.1	3.2	3.7	0.9	1.2	0.0	0.4	0.0	0.4	0.0	0.0	2.7	0.9	1.1	1.8	9.4	1.1	1.4	C91	0.1	0.1
Myeloid leukemia	9	0.0	0.0	1.2	0.9	0.0	0.0	0.4	0.4	0.4	1.0	1.6	2.0	3.5	5.6	1.8	4.0	1.1	0.9	C92-94	0.1	0.1
Leukemia unspecified	11	3.4	2.1	1.2	1.8	0.6	0.5	0.4	0.4	0.0	1.0	0.5	2.7	1.7	5.6	1.8	6.7	1.4	1.6	C95	0.1	0.1
Other and unspecified	53	1.1	1.1	0.0	0.0	0.6	1.0	1.7	2.9	2.1	3.9	6.6	17.4	19.9	16.8	25.4	53.8	6.8	4.9	O&U	0.3	0.5
All sites	**1,495**	**13.7**	**15.0**	**12.2**	**22.3**	**28.7**	**31.2**	**39.5**	**74.2**	**137.3**	**240.4**	**294.4**	**443.0**	**497.0**	**526.4**	**639.5**	**840.1**	**192.5**	**138.2**	**ALL**	**9.2**	**15.1**

Table 3.10.3 Mean annual incidence, Pathum Thani, 2019-2021

Site	Male						Female						ICD-10
	No.Cases Year	Freq. (%)	Crude rate	ASR world	Cum. 0-64	Rate. 0-74	No.Cases Year	Freq. (%)	Crude rate	ASR world	Cum. 0-64	Rate. 0-74	
			(per 100,000)		(percent)				(per 100,000)		(percent)		
Lip	0	0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C00
Tongue	21	1.6	3.0	2.2	0.2	0.3	9	0.6	1.2	0.8	0.1	0.1	C01-02
Mouth	15	1.2	2.1	1.6	0.1	0.2	7	0.5	0.9	0.8	0.0	0.1	C03-06
Salivary glands	3	0.3	0.5	0.4	0.0	0.0	3	0.2	0.4	0.3	0.0	0.0	C07-08
Tonsil	11	0.9	1.6	1.2	0.1	0.2	2	0.2	0.3	0.3	0.0	0.0	C09
Other oropharynx	12	0.9	1.7	1.3	0.1	0.1	2	0.2	0.3	0.2	0.0	0.0	C10
Nasopharynx	17	1.3	2.4	1.7	0.1	0.2	8	0.6	1.1	0.7	0.1	0.1	C11
Hypopharynx	16	1.3	2.3	1.7	0.1	0.2	1	0.0	0.1	0.1	0.0	0.0	C12-13
Pharynx unspecified	2	0.2	0.3	0.2	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C14
Oesophagus	43	3.3	6.1	4.6	0.3	0.6	4	0.3	0.5	0.3	0.0	0.0	C15
Stomach	15	1.2	2.2	1.6	0.1	0.2	24	1.6	3.1	2.1	0.1	0.2	C16
Small intestine	7	0.5	1.0	0.7	0.0	0.1	4	0.3	0.5	0.3	0.0	0.0	C17
Colon	144	11.1	20.4	15.9	0.9	1.9	110	7.4	14.2	10.2	0.5	1.3	C18
Rectum	81	6.2	11.5	8.9	0.4	1.1	52	3.5	6.7	4.7	0.3	0.5	C19-20
Anus	2	0.2	0.3	0.2	0.0	0.0	4	0.3	0.5	0.4	0.0	0.0	C21
Liver and bile duct	201	15.5	28.6	21.4	1.4	2.6	73	4.9	9.4	6.6	0.3	0.8	C22,C24
Gallbladder	4	0.3	0.5	0.4	0.0	0.1	9	0.6	1.2	0.8	0.1	0.1	C23
Pancreas	33	2.5	4.6	3.6	0.2	0.5	25	1.7	3.3	2.3	0.1	0.2	C25
Nose, sinuses etc.	6	0.5	0.9	0.7	0.1	0.1	1	0.1	0.2	0.1	0.0	0.0	C30-31
Larynx	21	1.6	3.0	2.3	0.1	0.3	2	0.1	0.2	0.1	0.0	0.0	C32
Trachea, Bronchus and lung	193	14.8	27.3	21.2	1.1	2.5	120	8.0	15.4	10.9	0.6	1.2	C33-34
Other thoracic organs	4	0.3	0.6	0.5	0.0	0.0	3	0.2	0.4	0.4	0.0	0.0	C37-38
Bone	8	0.6	1.2	1.3	0.1	0.1	7	0.4	0.9	0.9	0.1	0.1	C40-C41
Melanoma of skin	3	0.3	0.5	0.5	0.0	0.1	2	0.1	0.3	0.2	0.0	0.0	C43
Other skin	20	1.5	2.8	2.2	0.1	0.3	18	1.2	2.4	1.6	0.1	0.2	C44
Connective tissue	13	1.0	1.9	1.7	0.1	0.2	10	0.7	1.3	1.1	0.1	0.1	C47,C49
Breast	5	0.4	0.7	0.5	0.0	0.1	462	30.9	59.4	40.5	3.2	4.5	C50
Vulva							3	0.2	0.4	0.3	0.0	0.0	C51
Vagina							2	0.2	0.3	0.2	0.0	0.0	C52
Cervix uteri							112	7.5	14.5	9.8	0.8	1.1	C53
Corpus uteri							64	4.3	8.2	5.7	0.4	0.7	C54
Uterus unspecified							5	0.3	0.6	0.5	0.0	0.1	C55
Ovary							74	4.9	9.5	6.9	0.5	0.7	C56
Other female genital organs							2	0.1	0.3	0.2	0.0	0.0	C57
Placenta							1	0.1	0.1	0.2	0.0	0.0	C58
Penis	5	0.4	0.7	0.6	0.0	0.1							C60
Prostate	116	8.9	16.4	13.6	0.3	1.4							C61
Testis	6	0.4	0.8	0.8	0.0	0.1							C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0							C63
Kidney	21	1.6	3.0	2.5	0.1	0.3	11	0.7	1.4	1.4	0.1	0.1	C64
Renal pelvis	2	0.2	0.3	0.3	0.0	0.1	0	0.0	0.0	0.0	0.0	0.0	C65
Ureter	1	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C66
Bladder	45	3.5	6.4	5.3	0.2	0.7	14	1.0	1.8	1.3	0.1	0.2	C67
Other urinary organs	1	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C68
Eye	2	0.2	0.3	0.2	0.0	0.0	1	0.1	0.1	0.2	0.0	0.0	C69
Brain, nervous system	20	1.6	2.9	2.6	0.2	0.2	25	1.7	3.2	2.8	0.2	0.3	C70-72
Thyroid	19	1.5	2.7	2.0	0.2	0.2	76	5.1	9.7	6.9	0.5	0.7	C73
Adrenal gland	1	0.1	0.2	0.2	0.0	0.0	1	0.1	0.1	0.2	0.0	0.0	C74
Other endocrine	1	0.1	0.1	0.2	0.0	0.0	2	0.1	0.3	0.2	0.0	0.0	C75
Hodgkin disease	3	0.2	0.4	0.3	0.0	0.0	5	0.3	0.6	0.7	0.0	0.1	C81
Non-Hodgkin lymphoma	47	3.6	6.7	6.0	0.3	0.6	41	2.7	5.2	4.0	0.3	0.4	C82-85,C96
Multiple myeloma	10	0.7	1.4	1.0	0.1	0.1	11	0.7	1.4	1.0	0.1	0.1	C90
Lymphoid leukemia	8	0.6	1.2	1.6	0.1	0.1	9	0.6	1.1	1.4	0.1	0.1	C91
Myeloid leukemia	15	1.2	2.2	1.9	0.1	0.2	9	0.6	1.1	0.9	0.1	0.1	C92-94
Leukemia unspecified	13	1.0	1.8	1.9	0.1	0.2	11	0.7	1.4	1.6	0.1	0.1	C95
Other and unspecified	63	4.8	8.9	7.2	0.3	0.8	53	3.5	6.8	4.9	0.3	0.5	O&U
All sites	**1,303**	**100.0**	**184.7**	**147.2**	**7.8**	**16.9**	**1,495**	**100.0**	**192.5**	**138.2**	**9.2**	**15.1**	**ALL**

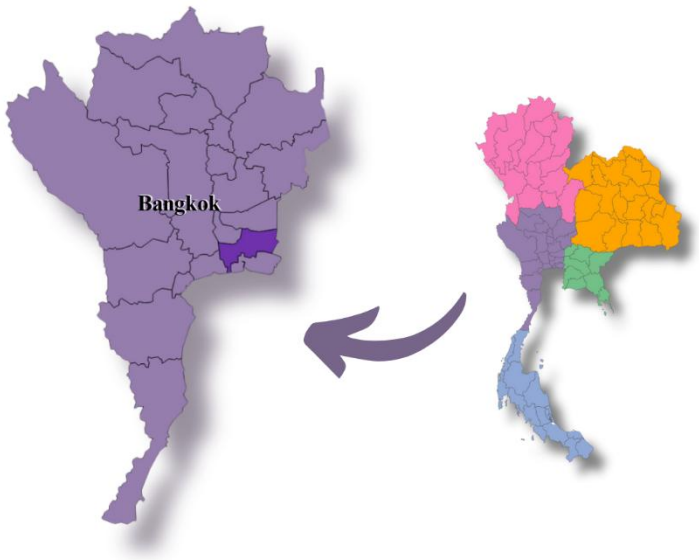
Table 3.10.4 Percentage of morphologically verified and death certificate only cases, Pathum Thani

Site	Male			Female			ICD-10
	Cases 3 Year	%MV	%DCO	Cases 3 Year	%MV	%DCO	
Oral cavity	119	89.9	0.8	59	72.9	1.7	C00-C08
Oropharynx	77	92.2	0.0	14	100.0	0.0	C09-C10,C14
Nasopharynx	51	82.4	0.0	25	72.0	0.0	C11
Hypopharynx	49	93.9	0.0	2	100.0	0.0	C12-C13
Esophagus	130	83.1	6.2	12	66.7	8.3	C15
Stomach	46	82.6	2.2	72	83.3	4.2	C16
Small intestine	21	71.4	4.8	12	75.0	8.3	C17
Colon and rectum	681	76.1	5.3	499	78.8	4.8	C18-C21
Liver and bile duct	604	29.8	18.0	220	36.4	14.1	C22,C24
Gallbladder	11	81.8	9.1	27	70.4	11.1	C23
pancrease	98	56.1	18.4	76	63.2	27.6	C25
Nose,sinuses etc	18	55.6	16.7	4	50.0	50.0	C30-C31
Larynx	64	90.6	3.1	5	80.0	0.0	C32
Trachea, brochus and lung	578	75.1	10.0	359	77.2	8.1	C33-C34
Other thoracic organs	12	58.3	8.3	9	66.7	0.0	C37-C38
Bone	25	36.0	24.0	20	25.0	15.0	C40-C41
Melanoma of skin	10	100.0	0.0	6	100.0	0.0	C43
Other skin	60	65.0	0.0	55	63.6	3.6	C44
Mesothelioma	0	0.0	0.0	0	0.0	0.0	C45
Kaposi sarcoma	0	0.0	0.0	0	0.0	0.0	C46
Connective and soft tissue	40	72.5	5.0	31	58.1	0.0	C47,C49
Breast	15	86.7	0.0	1,385	78.3	2.4	C50
Vulva				10	60.0	0.0	C51
Vagina				7	85.7	14.3	C52
Cervix uteri				337	80.4	0.3	C53
Corpus uteri				191	71.7	3.7	C54
Uterus unspecified				15	46.7	33.3	C55
Ovary				221	73.8	1.4	C56
Other female genital organs				6	33.3	16.7	C57
Placenta				3	0.0	66.7	C58
Penis	15	66.7	0.0				C60
Prostate	347	75.5	1.4				C61
Testis	17	76.5	0.0				C62
Other male genital organs	1	100.0	0.0				C63
Kidney	63	49.2	15.9	33	48.5	15.2	C64
Renal pelvis	7	14.3	14.3	1	100.0	0.0	C65
Ureter	2	50.0	50.0	1	0.0	0.0	C66
Bladder	136	70.6	4.4	43	67.4	2.3	C67
Other urinary organs	2	0.0	0.0	0	0.0	0.0	C68
Eye	6	50.0	0.0	3	66.7	0.0	C69
Brain, nervous system	61	73.8	8.2	75	76.0	6.7	C70-C72
Thyroid	57	86.0	0.0	227	83.3	0.0	C73
Adrenal gland	4	0.0	50.0	3	66.7	0.0	C74
Other endocrine	3	100.0	0.0	6	50.0	0.0	C75
Hodgkin disease	9	88.9	0.0	15	93.3	0.0	C81
Non-Hodgkin lymphoma	141	97.9	0.0	122	98.4	0.0	C82-C85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	29	96.6	0.0	32	100.0	0.0	C90
Leukemia	110	100.0	0.0	84	98.8	0.0	C91-C95
Myelodysplastic	0	0.0	0.0	0	0.0	0.0	D45-D47
Other and unspecified	189	62.4	21.2	159	63.5	18.9	O&U
All sites	**3,908**	**69.5**	**8.1**	**4,486**	**75.2**	**4.8**	**All**
All sites without liver	**3,304**	**76.7**	**6.3**	**4,266**	**77.2**	**4.3**	**All**

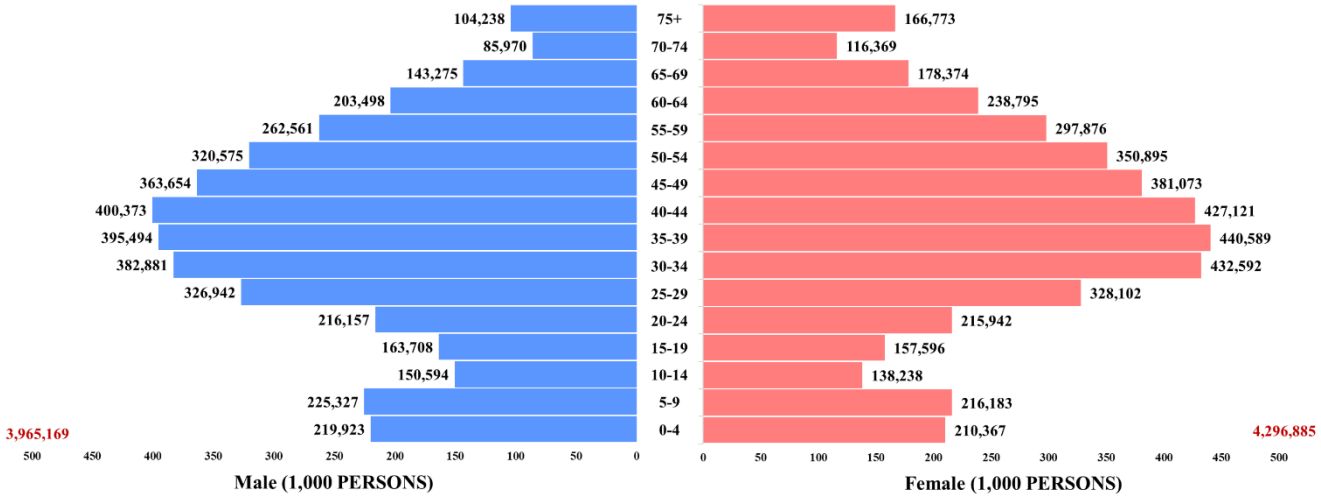
3.11 Bangkok Cancer Registry

Registration area

Bangkok Metropolis is the capital of Thailand, located in the central part of the country on the low plain of the Chao Phraya River at latitude 13°45'N and longitude 100°28'E. It is the center of politics, economy, education, culture and transportation. The climate is tropical, influenced by seasonal monsoons, with long hours of sunshine, high temperature and humidity. Bangkok comprises 50 districts with a total area of 1,569 square kilometers. Bangkok Metropolitan Administration is the sole organization at the local authority level responsible for the well-being of Bangkok residents with some financial support from the central government. Bangkok is the commercial center of Thailand, as well as Southeast Asia, a major hub for import and export. Bangkok is moving towards a westernized metropolitan status with a wide range of standards of living. Traffic congestion is a major unsolved problem and cause of air pollution. The estimated population in 2020 was 8,262,054 with 3,965,169 males and 4,296,885 females.



Population pyramid Bangkok
estimated population in 2020 (2019 – 2021)



Cancer care facilities

In Bangkok, there are 9 excellent government cancer centers of all 12 centers in Thailand, namely the National Cancer Institute, King Chulalongkorn Memorial hospital, Siriraj hospital, Ramathibodi hospital, Phra Mongkutklao hospital, Queen Sirikit National Institute of Child Health, Rajavithi hospital, Vajira hospital and Bhumibhol Adulyadej hospital. Moreover, there are three international private cancer centers; Bangkok hospital, Bumrungrad hospital and Samitivej hospital. From historical data, more than half of patients are treated in government hospitals. Regarding Public Health statistics, Bangkok has the highest level of facilities for general health care. The ratio of population per physician is 548:1, while it is 2,269:1 in other parts of Thailand. The Bangkok cancer registry is an important base for collection of cancer cases and in addition, referring the data of those non-resident patients treated in Bangkok back to other cancer registries.

Registry procedures

The cancer registry functions as one unit of the National Cancer Institute (NCI). The registry is supported by the government and funded partly by the Cancer Research Foundation of the NCI, which first established a population - based cancer registry for Bangkok Metropolis in 1990. The work began with a retrospective review of records covering the period 1988-1990. Data are collected both actively and passively from the government cancer centers, university hospital, government hospitals, private hospitals, pathology laboratories and from death certificates. All death certificates are reviewed to match with the incident case records and efforts are made to trace further information before registering the case as a DCO.

Summary of results

New cases registered in 2020; 7,484 were males and 8,972 were females, making 16,456 for both sexes. The age - standardized incidence rate (ASR) of all sites in males was 146.6 per 100,000, with colon and rectum ranking first (ASR = 23.5) followed by trachea, bronchus and lung (ASR = 22.1) and liver and bile duct (ASR = 20.0). The ASR of all cancers in females was 138.0, the three leading sites being breast (ASR = 38.7) followed by colon and rectum (ASR = 14.8) and trachea, bronchus and lung (ASR = 12.2)

Figure 3.11.1 Leading cancer in Bangkok (mean annual ASR 2019-2021)

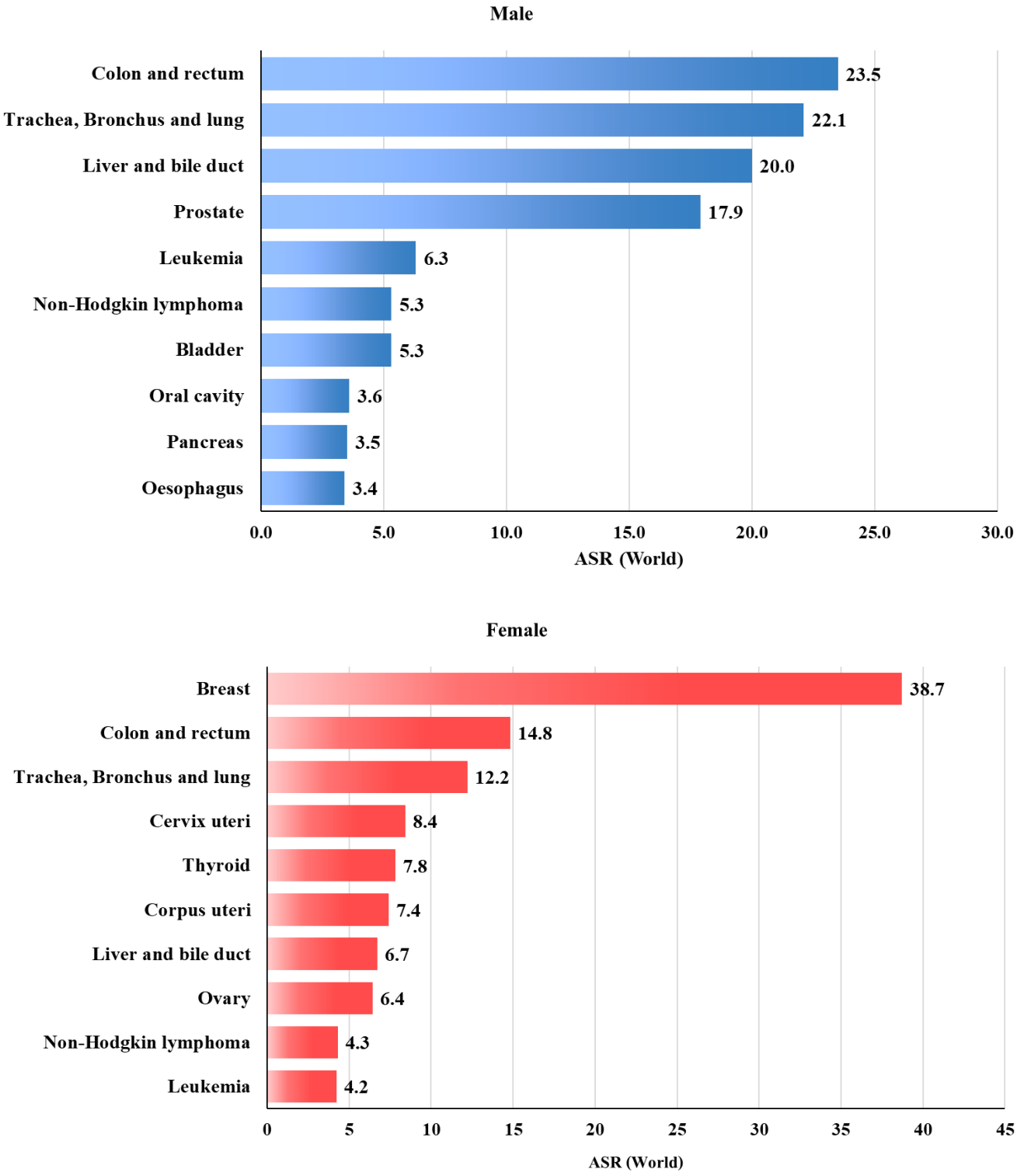


Table 3.11.1 Bangkok (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.6	0.0	0.0	C00	0.0	0.0
Tongue	103	0.0	0.0	0.0	0.2	0.5	0.1	0.4	0.3	1.2	1.7	4.5	6.7	10.5	11.6	7.0	10.6	2.6	1.9	C01-02	0.1	0.2
Mouth	63	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	1.0	2.2	4.4	6.6	7.2	6.2	8.6	1.6	1.2	C03-06	0.1	0.1
Salivary glands	27	0.0	0.0	0.2	0.0	0.5	0.1	0.1	0.4	0.2	0.7	1.4	1.8	1.5	2.8	1.2	2.9	0.7	0.5	C07-08	0.0	0.1
Tonsil	42	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.7	1.3	2.8	2.7	3.6	3.7	2.7	1.9	1.1	0.7	C09	0.1	0.1
Other oropharynx	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	1.0	0.7	1.0	3.3	1.2	3.5	1.6	0.6	0.4	C10	0.0	0.1
Nasopharynx	135	0.0	0.0	0.4	0.4	0.8	0.8	1.0	1.3	3.7	5.2	4.6	8.0	9.5	10.2	8.1	9.3	3.4	2.5	C11	0.2	0.3
Hypopharynx	63	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.6	1.7	1.6	5.2	6.7	6.7	7.0	5.1	1.6	1.2	C12-13	0.1	0.1
Pharynx unspecified	8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.6	0.3	0.5	0.9	1.9	0.3	0.2	0.2	C14	0.0	0.0
Oesophagus	180	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.7	3.4	6.4	10.5	18.8	21.9	26.8	21.7	4.5	3.4	C15	0.2	0.4
Stomach	153	0.0	0.0	0.0	0.0	0.2	0.5	0.7	0.6	1.3	2.3	4.1	7.0	12.8	15.4	22.9	32.0	3.9	2.9	C16	0.1	0.3
Small intestine	23	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.4	0.5	0.8	1.5	3.3	4.3	3.8	0.6	0.4	C17	0.0	0.1
Colon	760	0.3	0.0	0.4	0.4	0.5	1.2	1.7	3.4	5.8	9.2	19.0	32.0	56.3	78.9	119.8	192.2	19.2	14.5	C18	0.7	1.6
Rectum	457	0.0	0.0	0.0	0.0	0.3	0.3	0.7	1.9	3.1	6.6	13.9	25.8	39.3	55.4	67.5	75.8	11.5	8.6	C19-20	0.5	1.1
Anus	20	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.3	0.6	0.7	1.1	1.1	0.9	2.3	2.6	0.5	0.4	C21	0.0	0.0
Liver and bile duct	1057	1.2	0.1	0.2	0.0	0.8	0.5	1.2	3.5	8.8	18.8	33.7	56.1	91.6	121.2	146.9	179.1	26.7	20.0	C22,C24	1.1	2.4
Gallbladder	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.5	0.9	1.1	1.6	3.9	6.4	0.5	0.4	C23	0.0	0.0
Pancreas	182	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.3	1.7	2.6	4.8	7.0	14.9	19.8	31.0	43.2	4.6	3.5	C25	0.2	0.4
Nose, sinuses etc.	24	0.0	0.0	0.2	0.0	0.0	0.2	0.1	0.3	0.4	0.8	1.1	1.4	1.5	1.6	1.9	2.9	0.6	0.4	C30-31	0.0	0.0
Larynx	118	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.7	1.6	3.3	6.6	12.3	14.0	17.4	20.8	3.0	2.2	C32	0.1	0.3
Trachea, Bronchus and lung	1139	0.2	0.1	0.0	0.6	0.3	0.9	1.0	2.4	5.2	12.9	24.5	46.3	80.4	146.1	205.1	290.0	28.7	22.1	C33-34	0.9	2.6
Other thoracic organs	37	0.0	0.1	0.0	0.8	2.2	0.8	1.0	0.8	0.2	0.6	1.4	1.0	0.7	2.6	3.5	2.9	0.9	0.8	C37-38	0.0	0.1
Bone	37	0.0	0.1	1.3	2.4	0.9	0.8	0.3	0.5	0.2	0.8	0.7	1.3	1.6	1.6	2.7	4.8	0.9	1.0	C40-C41	0.1	0.1
Melanoma of skin	17	0.0	0.1	0.4	0.0	0.2	0.0	0.0	0.0	0.3	0.4	0.5	0.5	1.0	1.4	2.3	4.2	0.4	0.4	C43	0.0	0.0
Other skin	120	0.0	0.0	0.0	0.0	0.3	0.4	0.6	0.6	0.9	0.9	1.5	3.4	6.2	9.1	21.7	46.0	3.0	2.3	C44	0.1	0.2
Mesothelioma	18	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.6	0.2	0.4	0.5	0.3	1.3	1.6	1.2	2.2	0.5	0.3	C45	0.0	0.0
Kaposi's sarcoma	17	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.3	0.2	0.4	0.4	0.6	1.3	2.6	2.7	0.3	0.4	0.3	C46	0.0	0.0
Connective tissue	80	0.2	0.3	0.9	0.6	1.2	0.9	1.0	1.3	1.6	1.4	2.6	3.3	5.1	5.1	8.5	8.3	2.0	1.6	C47,C49	0.1	0.2
Breast	20	0.0	0.1	0.0	0.0	0.2	0.1	0.2	0.1	0.2	0.2	0.9	1.1	1.1	1.9	1.9	3.8	0.5	0.4	C50	0.0	0.0
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51	0.0	0.0
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52	0.0	0.0
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53	0.0	0.0
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54	0.0	0.0
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55	0.0	0.0
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56	0.0	0.0
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57	0.0	0.0
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58	0.0	0.0
Penis	20	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.2	0.7	0.4	0.8	1.8	2.6	0.8	3.5	0.5	0.4	C60	0.0	0.0
Prostate	882	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.8	3.8	17.4	49.0	122.6	247.4	318.2	22.3	17.9	C61	0.4	2.2
Testis	26	0.5	0.0	0.4	0.8	1.4	1.5	1.4	0.7	0.3	0.2	0.1	0.3	1.0	0.2	0.0	1.6	0.7	0.6	C62	0.0	0.0
Other male genital organs	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.1	0.2	0.0	1.6	1.6	0.1	0.1	C63	0.0	0.0
Kidney	162	0.2	0.3	0.0	0.0	0.2	0.1	0.9	1.3	2.3	3.6	5.3	7.6	12.0	17.0	19.8	25.9	4.1	3.0	C64	0.2	0.4
Renal pelvis	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.4	0.5	2.8	1.6	3.5	0.3	0.2	C65	0.0	0.0
Ureter	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.5	1.2	3.1	7.7	0.4	0.3	C66	0.0	0.0
Bladder	269	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	1.1	1.1	4.1	9.1	14.4	25.4	53.5	105.2	6.8	5.3	C67	0.2	0.5
Other urinary organs	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.5	0.0	1.2	1.9	0.1	0.1	C68	0.0	0.0
Eye	8	0.6	0.3	0.2	0.0	0.0	0.1	0.1	0.0	0.2	0.2	0.2	0.1	0.2	0.5	0.4	0.3	0.2	0.2	C69	0.0	0.0
Brain, nervous system	96	0.9	1.6	2.0	1.6	0.8	0.9	0.9	0.8	1.2	2.7	2.5	3.9	4.6	8.1	8.9	11.5	2.4	2.2	C70-72	0.1	0.2
Thyroid	117	0.0	0.3	0.4	1.4	1.4	1.9	2.1	2.0	2.7	3.1	2.6	4.8	5.9	11.9	8.9	8.3	3.0	2.3	C73	0.1	0.2
Adrenal gland	10	0.8	0.3	0.0	0.2	0.0	0.0	0.1	0.1	0.1	0.3	0.3	0.4	0.0	1.4	0.4	1.0	0.3	0.3	C74	0.0	0.0
Other endocrine	6	0.2	0.0	0.2	0.4	0.3	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.7	0.0	0.4	1.0	0.2	0.2	C75	0.0	0.0
Hodgkin disease	32	0.0	0.0	0.7	0.8	1.5	1.2	0.8	0.7	0.7	0.7	0.7	0.5	1.0	1.4	2.3	1.3	0.8	0.7	C81	0.0	0.1
Non-Hodgkin lymphoma	264	0.6	0.7	1.1	2.6	2.2	3.2	3.0	3.2	2.3	3.4	5.9	11.8	15.9	24.4	31.4	47.6	6.7	5.3	C82-85,C96	0.3	0.6
Multiple myeloma	59	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.3	0.0	0.5	1.4	2.5	4.6	6.5	9.7	16.3	1.5	1.2	C90	0.0	0.1
Lymphoid leukemia	59	2.6	2.4	1.5	1.8	1.1	0.7	1.0	0.4	1.0	0.4	1.4	1.5	2.0	3.3	5.0	5.1	1.5	1.7	C91	0.1	0.1
Myeloid leukemia	159	1.2	0.4	2.0	1.4	1.1	0.8	1.7	1.5	2.2	2.4	3.4	4.2	8.5	11.2	20.9	39.3	4.0	3.3	C92-94	0.2	0.3
Leukemia unspecified	55	1.1	0.3	0.7	1.8	0.5	0.3	0.5	0.4	0.9	0.9	1.0	1.0	2.3	4.9	6.2	11.8	1.4	1.3	C95	0.1	0.1
Myelodysplastic disease	20	0.2	0.0	0.2	0.4	0.2	0.1	0.1	0.2	0.7	0.3	0.7	0.4	1.1	2.1	1.9	2.9	0.5	0.4	D45-D47	0.0	0.0
Other and unspecified	256	0.3	0.0	0.2	0.8	1.4	0.8	0.5	1.6	2.3	2.7	6.5	11.3	18.5	24.5	35.7	64.3	6.4	5.0	O&U	0.2	0.5
All sites	**7,484**	**10.8**	**7.8**	**14.2**	**19.8**	**21.0**	**21.1**	**25.8**	**34.1**	**57.9**	**101.5**	**180.4**	**316.0**	**537.4**	**822.0**	**1,193.0**	**1,663.8**	**188.7**	**146.6**	**ALL**	**6.7**	**16.8**

Table 3.11.2 Bangkok (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.4	0.3	0.4	0.1	0.0	C00	0.0	0.0
Tongue	49	0.0	0.2	0.0	0.0	0.5	0.3	0.4	0.4	0.6	1.1	1.6	2.1	3.2	2.1	2.6	6.0	1.1	0.8	C01-02	0.1	0.1
Mouth	27	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.2	0.7	1.1	1.4	1.5	3.2	5.2	0.6	0.4	C03-06	0.0	0.0
Salivary glands	21	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.4	0.4	0.4	0.5	1.1	1.0	1.3	2.0	1.0	0.5	0.3	C07-08	0.0	0.0
Tonsil	11	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.5	0.3	0.2	0.4	0.6	0.7	0.3	1.2	0.3	0.2	C09	0.0	0.0
Other oropharynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.3	0.0	0.3	0.2	0.1	0.0	C10	0.0	0.0
Nasopharynx	62	0.0	0.2	0.0	0.0	0.8	0.0	0.5	0.8	1.3	2.3	2.7	3.1	3.6	2.4	4.0	2.2	1.4	1.0	C11	0.1	0.1
Hypopharynx	4	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.2	0.4	0.1	0.1	0.0	0.3	0.0	0.1	0.1	C12-13	0.0	0.0
Pharynx unspecified	4	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.4	0.4	0.3	0.0	0.1	0.1	C14	0.0	0.0
Oesophagus	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.6	0.8	0.7	2.2	2.9	3.2	0.5	0.3	C15	0.0	0.0
Stomach	167	0.0	0.0	0.0	0.2	0.6	0.8	0.8	1.6	2.1	2.8	3.8	6.0	8.1	10.7	18.0	25.2	3.9	2.5	C16	0.1	0.3
Small intestine	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.3	0.6	0.6	1.5	1.1	2.8	0.3	0.2	C17	0.0	0.0
Colon	663	0.2	0.0	0.5	0.6	0.3	1.0	1.2	2.9	5.2	7.2	14.7	20.3	34.9	47.5	66.5	138.3	15.4	9.7	C18	0.4	1.0
Rectum	333	0.2	0.0	0.0	0.0	0.0	0.2	0.5	2.2	2.7	5.1	8.9	14.8	18.0	28.2	33.2	49.6	7.8	4.9	C19-20	0.3	0.6
Anus	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.2	0.2	1.0	0.7	2.0	3.0	0.3	0.2	C21	0.0	0.0
Liver and bile duct	455	0.5	0.2	0.0	0.0	0.3	0.4	0.3	1.4	2.7	3.8	6.4	13.4	25.3	37.6	52.7	100.3	10.6	6.7	C22,C24	0.3	0.7
Gallbladder	41	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.2	0.1	0.5	1.7	2.2	2.2	4.6	10.4	0.9	0.6	C23	0.0	0.1
Pancreas	204	0.0	0.0	0.0	0.4	0.5	0.2	0.3	0.5	0.9	1.9	2.7	6.5	10.6	16.6	22.1	46.6	4.8	3.0	C25	0.1	0.3
Nose, sinuses etc.	21	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.2	0.3	0.9	0.6	0.4	0.7	0.9	2.3	2.8	0.5	0.3	C30-31	0.0	0.0
Larynx	13	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.3	0.2	0.4	0.6	0.7	2.0	2.4	0.3	0.2	C32	0.0	0.0
Trachea, Bronchus and lung	819	0.2	0.0	0.2	0.6	0.2	0.7	1.3	2.1	3.7	9.1	15.9	30.2	50.0	76.6	91.9	143.7	19.0	12.2	C33-34	0.6	1.4
Other thoracic organs	26	0.2	0.0	0.0	0.2	0.3	0.3	0.2	0.3	0.3	0.5	0.7	0.7	1.8	2.1	2.9	1.4	0.6	0.4	C37-38	0.0	0.1
Bone	32	0.0	0.3	1.2	1.9	1.2	0.5	0.3	0.2	0.4	0.4	0.6	1.0	1.7	1.7	1.1	2.0	0.7	0.8	C40-C41	0.0	0.1
Melanoma of skin	20	0.0	0.2	0.0	0.2	0.0	0.1	0.0	0.2	0.1	0.1	0.6	0.9	1.1	1.5	2.3	2.8	0.5	0.3	C43	0.0	0.0
Other skin	136	0.0	0.2	0.0	0.8	0.2	0.1	0.4	0.5	0.8	1.0	1.6	3.6	5.7	9.9	13.5	35.8	3.2	2.0	C44	0.1	0.2
Mesothelioma	5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.6	0.3	0.7	0.0	0.2	0.1	0.1	C45	0.0	0.0
Kaposi's sarcoma	13	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.8	0.8	0.2	0.6	0.9	1.1	1.0	0.3	0.2	C46	0.0	0.0
Connective tissue	74	0.3	0.0	0.5	0.0	0.6	0.9	0.5	1.6	0.9	1.4	2.2	3.6	3.2	4.5	3.2	7.2	1.7	1.2	C47,C49	0.1	0.1
Breast	2577	0.5	0.0	0.2	0.4	1.4	5.6	12.9	24.7	52.8	84.8	100.5	133.1	142.5	170.2	171.6	148.1	60.0	38.7	C50	2.8	4.5
Vulva	18	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.3	0.4	0.4	1.3	1.1	1.1	3.8	0.4	0.3	C51	0.0	0.0
Vagina	16	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.4	0.3	0.9	1.3	1.7	0.6	1.4	0.4	0.2	C52	0.0	0.0
Cervix uteri	563	0.3	0.0	0.0	0.2	0.8	4.9	9.6	12.9	14.4	16.1	21.1	20.6	23.0	25.8	22.6	36.4	13.1	8.4	C53	0.6	0.9
Corpus uteri	488	0.0	0.0	0.0	0.0	0.6	1.7	3.1	3.7	5.9	9.1	16.0	26.9	31.7	43.4	37.8	35.2	11.4	7.4	C54	0.5	0.9
Uterus unspecified	47	0.2	0.0	0.0	0.4	0.2	0.1	0.2	0.4	0.6	0.3	1.9	2.0	2.4	3.4	3.7	5.8	1.1	0.7	C55	0.0	0.1
Ovary	388	0.3	0.2	1.7	3.4	2.8	3.9	2.7	4.4	6.8	10.7	15.8	19.8	21.2	22.8	21.2	18.0	9.0	6.4	C56	0.5	0.7
Other female genital organs	11	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.5	0.6	1.0	0.7	0.3	1.6	0.2	0.2	C57	0.0	0.0
Placenta	7	0.0	0.0	0.0	0.0	0.9	0.3	0.2	0.4	0.1	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C58	0.0	0.0
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60	0.0	0.0
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61	0.0	0.0
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62	0.0	0.0
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63	0.0	0.0
Kidney	71	0.6	0.0	0.0	0.0	0.2	0.3	0.5	0.6	0.6	1.2	1.7	2.1	4.0	4.9	7.7	10.0	1.7	1.1	C64	0.1	0.1
Renal pelvis	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	1.0	1.1	1.4	4.8	0.3	0.2	C65	0.0	0.0
Ureter	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.7	0.8	1.5	1.7	4.0	0.4	0.2	C66	0.0	0.0
Bladder	99	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.8	0.8	1.7	4.3	7.3	13.2	28.2	2.3	1.4	C67	0.0	0.1
Other urinary organs	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.2	0.6	0.4	0.1	0.0	C68	0.0	0.0
Eye	5	0.8	0.5	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.4	0.1	0.2	C69	0.0	0.0
Brain, nervous system	82	0.8	0.8	1.9	0.6	1.1	1.5	0.6	0.9	1.1	1.8	1.7	3.2	3.6	4.1	4.9	7.4	1.9	1.6	C70-72	0.1	0.1
Thyroid	460	0.0	0.0	1.2	3.2	8.8	10.6	10.7	9.8	10.7	11.5	13.9	14.9	16.6	19.1	18.9	18.8	10.7	7.8	C73	0.6	0.7
Adrenal gland	6	0.8	0.2	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.0	0.1	0.0	0.3	0.2	0.6	0.4	0.1	0.2	C74	0.0	0.0
Other endocrine	3	0.0	0.2	0.0	0.0	0.2	0.1	0.0	0.0	0.2	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	C75	0.0	0.0
Hodgkin disease	31	0.2	0.0	0.7	0.8	1.9	1.7	1.1	0.4	0.5	0.6	0.5	0.6	1.0	0.9	0.3	0.2	0.7	0.7	C81	0.1	0.1
Non-Hodgkin lymphoma	265	0.8	0.5	0.0	1.3	1.9	3.3	2.1	2.1	2.3	3.9	5.8	10.6	12.6	19.1	25.5	34.0	6.2	4.3	C82-85,C96	0.2	0.5
Multiple myeloma	69	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.7	1.2	3.0	4.0	6.7	8.3	11.8	1.6	1.0	C90	0.0	0.1
Lymphoid leukemia	39	2.2	1.7	1.0	0.4	0.3	0.6	0.4	0.2	0.1	0.7	0.1	1.3	1.1	2.4	1.7	4.0	0.9	1.0	C91	0.1	0.1
Myeloid leukemia	134	0.8	0.8	0.5	1.5	1.4	0.9	1.1	1.1	1.7	1.5	2.4	3.2	5.6	8.0	12.0	23.8	3.1	2.3	C92-94	0.1	0.2
Leukemia unspecified	52	0.3	0.5	0.7	0.4	0.8	0.2	0.1	0.4	0.7	0.6	0.4	2.1	2.0	3.0	3.4	10.2	1.2	0.9	C95	0.0	0.1
Myelodysplastic disease	22	0.6	0.2	0.0	0.2	0.3	0.4	0.5	0.2	0.3	0.3	0.5	0.8	0.6	0.6	2.3	1.8	0.5	0.4	D45-D47	0.0	0.0
Other and unspecified	231	0.2	0.0	0.5	0.2	0.6	1.1	0.8	1.2	1.3	3.4	4.4	8.4	12.0	15.5	22.1	45.0	5.3	3.5	O&U	0.2	0.4
All sites	**8,972**	**11.1**	**6.3**	**11.1**	**18.2**	**29.5**	**43.4**	**54.9**	**79.7**	**125.4**	**190.3**	**257.4**	**371.6**	**472.0**	**619.3**	**720.1**	**1,050.1**	**208.7**	**138.0**	**ALL**	**8.4**	**15.1**

Table 3.11.3 Mean annual incidence, Bangkok, 2019-2021

Site	Male						Female						ICD-10
	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74 (percent)	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74 (percent)	
Lip	2	0.0	0.0	0.0	0.0	0.0	3	0.0	0.1	0.0	0.0	0.0	C00
Tongue	103	1.4	2.6	1.9	0.1	0.2	49	0.5	1.1	0.8	0.1	0.1	C01-02
Mouth	63	0.8	1.6	1.2	0.1	0.1	27	0.3	0.6	0.4	0.0	0.0	C03-06
Salivary glands	27	0.4	0.7	0.5	0.0	0.1	21	0.2	0.5	0.3	0.0	0.0	C07-08
Tonsil	42	0.6	1.1	0.7	0.1	0.1	11	0.1	0.3	0.2	0.0	0.0	C09
Other oropharynx	23	0.3	0.6	0.4	0.0	0.1	2	0.0	0.1	0.0	0.0	0.0	C10
Nasopharynx	135	1.8	3.4	2.5	0.2	0.3	62	0.7	1.4	1.0	0.1	0.1	C11
Hypopharynx	63	0.8	1.6	1.2	0.1	0.1	4	0.0	0.1	0.1	0.0	0.0	C12-13
Pharynx unspecified	8	0.1	0.2	0.2	0.0	0.0	4	0.0	0.1	0.1	0.0	0.0	C14
Oesophagus	180	2.4	4.5	3.4	0.2	0.4	20	0.2	0.5	0.3	0.0	0.0	C15
Stomach	153	2.0	3.9	2.9	0.1	0.3	167	1.9	3.9	2.5	0.1	0.3	C16
Small intestine	23	0.3	0.6	0.4	0.0	0.1	14	0.2	0.3	0.2	0.0	0.0	C17
Colon	760	10.2	19.2	14.5	0.7	1.6	663	7.4	15.4	9.7	0.4	1.0	C18
Rectum	457	6.1	11.5	8.6	0.5	1.1	333	3.7	7.8	4.9	0.3	0.6	C19-20
Anus	20	0.3	0.5	0.4	0.0	0.0	15	0.2	0.3	0.2	0.0	0.0	C21
Liver and bile duct	1057	14.1	26.7	20.0	1.1	2.4	455	5.1	10.6	6.7	0.3	0.7	C22,C24
Gallbladder	20	0.3	0.5	0.4	0.0	0.0	41	0.5	0.9	0.6	0.0	0.1	C23
Pancreas	182	2.4	4.6	3.5	0.2	0.4	204	2.3	4.8	3.0	0.1	0.3	C25
Nose, sinuses etc.	24	0.3	0.6	0.4	0.0	0.0	21	0.2	0.5	0.3	0.0	0.0	C30-31
Larynx	118	1.6	3.0	2.2	0.1	0.3	13	0.1	0.3	0.2	0.0	0.0	C32
Trachea, Bronchus and lung	1139	15.2	28.7	22.1	0.9	2.6	819	9.1	19.0	12.2	0.6	1.4	C33-34
Other thoracic organs	37	0.5	0.9	0.8	0.0	0.1	26	0.3	0.6	0.4	0.0	0.1	C37-38
Bone	37	0.5	0.9	1.0	0.1	0.1	32	0.4	0.7	0.8	0.0	0.1	C40-C41
Melanoma of skin	17	0.2	0.4	0.4	0.0	0.0	20	0.2	0.5	0.3	0.0	0.0	C43
Other skin	120	1.6	3.0	2.3	0.1	0.2	136	1.5	3.2	2.0	0.1	0.2	C44
Mesothelioma	18	0.2	0.5	0.3	0.0	0.0	5	0.1	0.1	0.1	0.0	0.0	C45
Kaposi's sarcoma	17	0.2	0.4	0.3	0.0	0.0	13	0.1	0.3	0.2	0.0	0.0	C46
Connective tissue	80	1.1	2.0	1.6	0.1	0.2	74	0.8	1.7	1.2	0.1	0.1	C47,C49
Breast	20	0.3	0.5	0.4	0.0	0.0	2577	28.7	60.0	38.7	2.8	4.5	C50
Vulva	0	0.0	0.0	0.0	0.0	0.0	18	0.2	0.4	0.3	0.0	0.0	C51
Vagina	0	0.0	0.0	0.0	0.0	0.0	16	0.2	0.4	0.2	0.0	0.0	C52
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	563	6.3	13.1	8.4	0.6	0.9	C53
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	488	5.4	11.4	7.4	0.5	0.9	C54
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	47	0.5	1.1	0.7	0.0	0.1	C55
Ovary	0	0.0	0.0	0.0	0.0	0.0	388	4.3	9.0	6.4	0.5	0.7	C56
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	11	0.1	0.2	0.2	0.0	0.0	C57
Placenta	0	0.0	0.0	0.0	0.0	0.0	7	0.1	0.2	0.2	0.0	0.0	C58
Penis	20	0.3	0.5	0.4	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C60
Prostate	882	11.8	22.3	17.9	0.4	2.2	0	0.0	0.0	0.0	0.0	0.0	C61
Testis	26	0.3	0.7	0.6	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C62
Other male genital organs	5	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C63
Kidney	162	2.2	4.1	3.0	0.2	0.4	71	0.8	1.7	1.1	0.1	0.1	C64
Renal pelvis	12	0.2	0.3	0.2	0.0	0.0	15	0.2	0.3	0.2	0.0	0.0	C65
Ureter	14	0.2	0.4	0.3	0.0	0.0	16	0.2	0.4	0.2	0.0	0.0	C66
Bladder	269	3.6	6.8	5.3	0.2	0.5	99	1.1	2.3	1.4	0.0	0.1	C67
Other urinary organs	5	0.1	0.1	0.1	0.0	0.0	3	0.0	0.1	0.0	0.0	0.0	C68
Eye	8	0.1	0.2	0.2	0.0	0.0	5	0.1	0.1	0.2	0.0	0.0	C69
Brain, nervous system	96	1.3	2.4	2.2	0.1	0.2	82	0.9	1.9	1.6	0.1	0.1	C70-72
Thyroid	117	1.6	3.0	2.3	0.1	0.2	460	5.1	10.7	7.8	0.6	0.7	C73
Adrenal gland	10	0.1	0.3	0.3	0.0	0.0	6	0.1	0.1	0.2	0.0	0.0	C74
Other endocrine	6	0.1	0.2	0.2	0.0	0.0	3	0.0	0.1	0.1	0.0	0.0	C75
Hodgkin disease	32	0.4	0.8	0.7	0.0	0.1	31	0.3	0.7	0.7	0.1	0.1	C81
Non-Hodgkin lymphoma	264	3.5	6.7	5.3	0.3	0.6	265	3.0	6.2	4.3	0.2	0.5	C82-85,C96
Multiple myeloma	59	0.8	1.5	1.2	0.0	0.1	69	0.8	1.6	1.0	0.0	0.1	C90
Lymphoid leukemia	59	0.8	1.5	1.7	0.1	0.1	39	0.4	0.9	1.0	0.1	0.1	C91
Myeloid leukemia	159	2.1	4.0	3.3	0.2	0.3	134	1.5	3.1	2.3	0.1	0.2	C92-94
Leukemia unspecified	55	0.7	1.4	1.3	0.1	0.1	52	0.6	1.2	0.9	0.0	0.1	C95
Myelodysplastic disease	20	0.3	0.5	0.4	0.2	0.5	22	0.2	0.5	0.4	0.0	0.0	D45-D47
Other and unspecified	256	3.4	6.4	5.0	6.7	16.8	231	2.6	5.3	3.5	8.4	15.1	O&U
All sites	**7,484**	**100.0**	**188.7**	**146.6**	**6.7**	**16.8**	**8,972**	**100.0**	**208.7**	**138.0**	**8.4**	**15.1**	**ALL**

Table 3.11.4 Percentage of morphologically verified and death certificate only cases, Bangkok

Site	Male			Female			ICD-10
	Cases 3 Year	%MV	%DCO	Cases 3 Year	%MV	%DCO	
Oral cavity	585	81.9	4.1	301	81.7	4.0	C00-C08
Oropharynx	221	86.0	1.4	51	92.2	2.0	C09-C10,C14
Nasopharynx	405	91.1	1.0	186	89.8	1.6	C11
Hypopharynx	189	89.4	1.6	12	83.3	0.0	C12-C13
Esophagus	540	86.9	6.7	61	82.0	6.6	C15
Stomach	459	87.8	3.1	501	85.8	4.0	C16
Small intestine	70	81.4	4.3	43	81.4	4.7	C17
Colon and rectum	3,709	83.1	3.6	3,032	83.4	4.7	C18-C21
Liver and bile duct	3,172	39.4	15.0	1,366	44.7	16.0	C22,C24
Gallbladder	59	61.0	13.6	122	63.1	15.6	C23
pancrease	546	65.8	13.6	613	65.7	16.5	C25
Nose,sinuses etc	73	83.6	4.1	63	88.9	0.0	C30-C31
Larynx	355	84.5	4.2	38	81.6	0.0	C32
Trachea, brochus and lung	3,416	74.6	9.1	2,457	79.1	7.5	C33-C34
Other thoracic organs	112	89.3	1.8	78	79.5	9.0	C37-C38
Bone	110	77.3	6.4	96	81.3	3.1	C40-C41
Melanoma of skin	52	92.3	0.0	60	93.3	0.0	C43
Other skin	360	87.8	2.5	409	90.7	1.5	C44
Mesothelioma	55	25.5	0.0	16	62.5	0.0	C45
Kaposi sarcoma	52	21.2	0.0	38	5.3	0.0	C46
Connective and soft tissue	241	68.5	3.7	222	64.9	3.2	C47,C49
Breast	60	76.7	0.0	7,730	86.4	2.0	C50
Vulva				53	79.2	1.9	C51
Vagina				48	72.9	6.3	C52
Cervix uteri				1,690	84.1	3.7	C53
Corpus uteri				1,465	85.3	1.8	C54
Uterus unspecified				140	59.3	19.3	C55
Ovary				1,165	72.0	5.8	C56
Other female genital organs				32	53.1	18.8	C57
Placenta				21	38.1	0.0	C58
Penis	59	79.7	1.7	0			C60
Prostate	2,647	87.1	3.4	0			C61
Testis	78	74.4	1.3	0			C62
Other male genital organs	14	71.4	0.0	0			C63
Kidney	486	77.2	5.8	214	73.8	8.9	C64
Renal pelvis	37	83.8	0.0	45	82.2	0.0	C65
Ureter	43	79.1	2.3	48	75.0	4.2	C66
Bladder	808	76.9	4.8	298	78.5	9.1	C67
Other urinary organs	15	46.7	13.3	8	50.0	12.5	C68
Eye	23	91.3	0.0	15	73.3	0.0	C69
Brain, nervous system	289	68.9	7.3	247	67.6	7.3	C70-C72
Thyroid	352	88.9	2.3	1,379	90.9	1.1	C73
Adrenal gland	30	76.7	6.7	18	72.2	16.7	C74
Other endocrine	19	68.4	10.5	10	70.0	10.0	C75
Hodgkin disease	95	76.8	0.0	93	86.0	0.0	C81
Non-Hodgkin lymphoma	792	91.9	0.0	795	94.2	0.0	C82-C85,C96
Multiple myeloma	178	93.8	0.0	206	94.2	0.0	C90
Leukemia	817	92.4	0.0	673	93.6	0.0	C91-C95
Myelodysplastic	61	21.3	0.0	65	15.4	0.0	D45-D47
Other and unspecified	769	37.2	31.8	693	38.9	29.1	O&U
All sites	**22,453**	**74.1**	**7.0**	**26,916**	**80.2**	**5.0**	**All**
All sites without liver	**19,281**	**79.7**	**5.7**	**25,550**	**82.1**	**4.5**	**All**

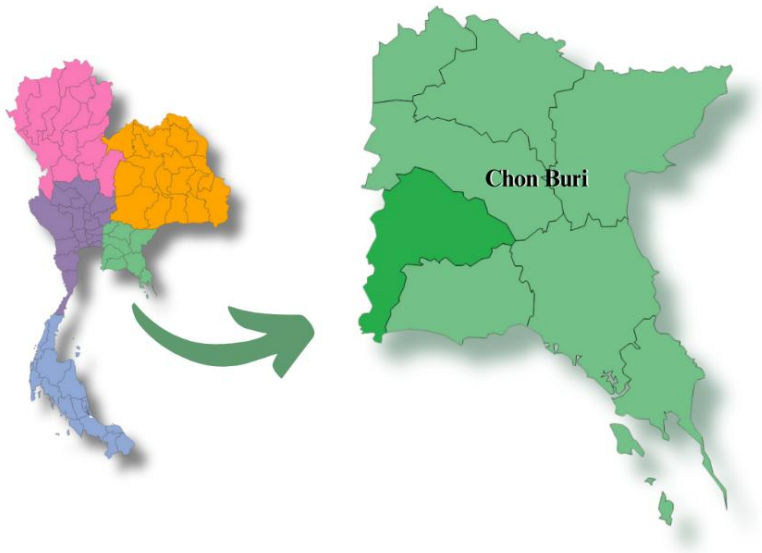
3.12 Chon Buri Cancer Registry

Registration area

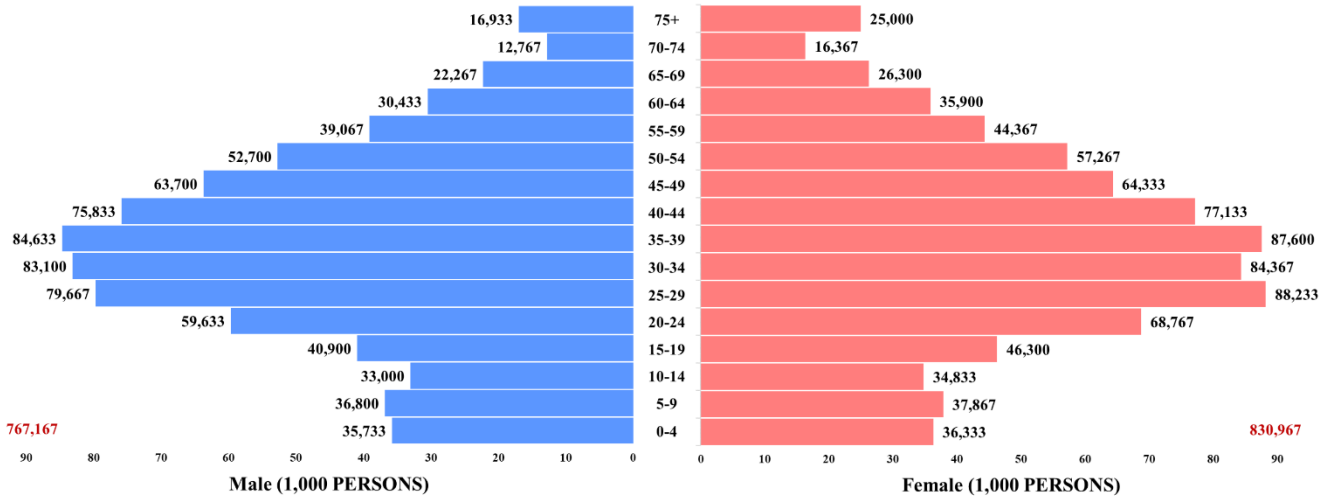
Chon Buri is situated in the eastern part of Thailand, between 12º-13º N and 100-102 º E, 81 kilometers from Bangkok by car or bus and train, with land area 4,363 square kilometers and is bounded in the north by Chachoengsao, in the east by Chanthaburi, in the south by Rayong and in the west by the bank of Gulf of Thailand. The districts of Chon Buri were: Mueang Chon Buri, Sri Racha, Ban Bueng, Nong Yai, Bang Lamung, Sattahip, Phan Thong, Phanat Nikhom, Bo Thong, Ko Sichang and Ko Chan.

The central part of the province is predominantly mountainous stretching from north-west to south-east, about 200 meters above the sea level. The climate is hot and dry the highest temperature about 42 º C in summer from March to May, in winter from November to February, rainy season started from June to October. The average total rainfall is 1,342.2 millimeters per year.

The most important occupations are farming of sugar beans, fishing and shrimp farming. The Industrial Estate Authority of Eastern part of Thailand is situated in this area. Nowadays, it is becoming appreciated for its tourism potential, especially Bang Saen, Ko Sichang, Pattaya.



Population pyramid Chon Buri
estimated population in 2020 (2019 – 2021)



Cancer care facilities

The total number of hospitals in Chon Buri province was 36 hospitals composed of 14 community hospitals, 17 private hospitals and 1 provincial hospital, 3 military hospitals and university hospital. Cancer diagnostic services including radiological diagnosis equipment such as: X-ray, ultrasound, computed radiography, mammogram, CT scan and pathological investigations are available in Chon Buri provincial hospital, private hospitals and Chon Buri cancer hospital. MRI is available in Samitivej Sriracha Hospital, Samitivej Chon Buri Hospital, Chon Buri UD Medical, Phyathai Sriracha Hospital, Bangkok Pattaya Hospital, Queen Savangvadthana Memorial Hospital and Burapha University Hospital. Cancer treatment, radiotherapy equipments: Digital Simulator, Computed Tomography Simulator, Two Dimension Radiotherapy Treatment Planning, Three Dimension Radiotherapy Treatment Planning, Three Dimension For Intensity Modulated Radiotherapy Treatment Planning, cobalt-60 machine, linear accelerator (LINAC), and Remote after-loading devices for brachytherapy are available at the Chon Buri cancer hospital. Cancer surgery and cancer chemotherapy service are provided in Chon Buri cancer hospital, provincial hospital and private hospitals.

Registry procedures

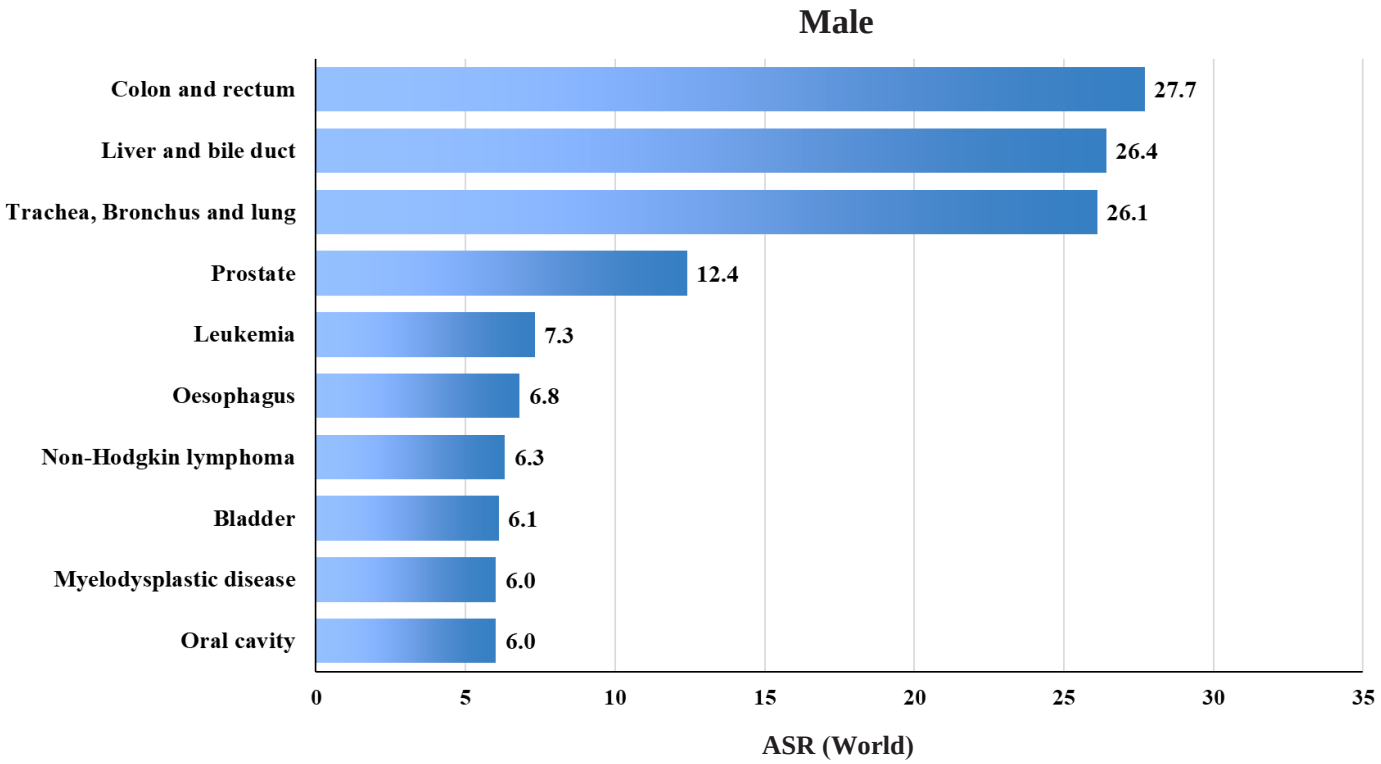
All data on cancer patients were collected by mixture of passive and active methods involving notification by the staff of all hospital in Chon Buri. New cancer cases were collected from out and in patient departments, wards, radiotherapy unit, surgery unit, cytology unit, hematology unit, medical record, pathological unit and autopsy service. The data information collected includes demographic details for each cancer patient that consists of: registry number, name, residential address, date of birth, age, sex, date of diagnosis, site of cancer, histology of cancer, staging, extension of disease, method of diagnosis, treatment, date of last contact and status of cancer patients (alive or dead). Multiple primary cases are checked by physicians using their original records and with any other physicians concerned. All cancer death certificates are matched with the incidence case records of the registry. Individual certified as having died of cancer are registered as “Death Certificate Only (DCO)” cases if no other information about the individual can be traced from the other sources.

The sources of information on cancer cases are mainly hospital and pathology laboratory records. Each completed case notification form is checked for duplication with computer software for Thai names before entering into the database programmed, CanReg5.

Summary of results

New cases registered in 2020, 1,446 were males and 1,727 were females, making 3,173 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 173.3 per 100,000, with colon and rectum cancer ranks first (ASR = 27.7) followed by liver and bile duct (ASR =26.4) and lung (ASR =26.1). The ASR of all cancer sites in females was 164.0 per 100,000, three leading cancer sites being breast (ASR = 42.8), colon and rectum (ASR =18.0) and cervix (ASR =13.3).

Figure 3.12.1 Leading cancer in Chon Buri (mean annual ASR 2019-2021)



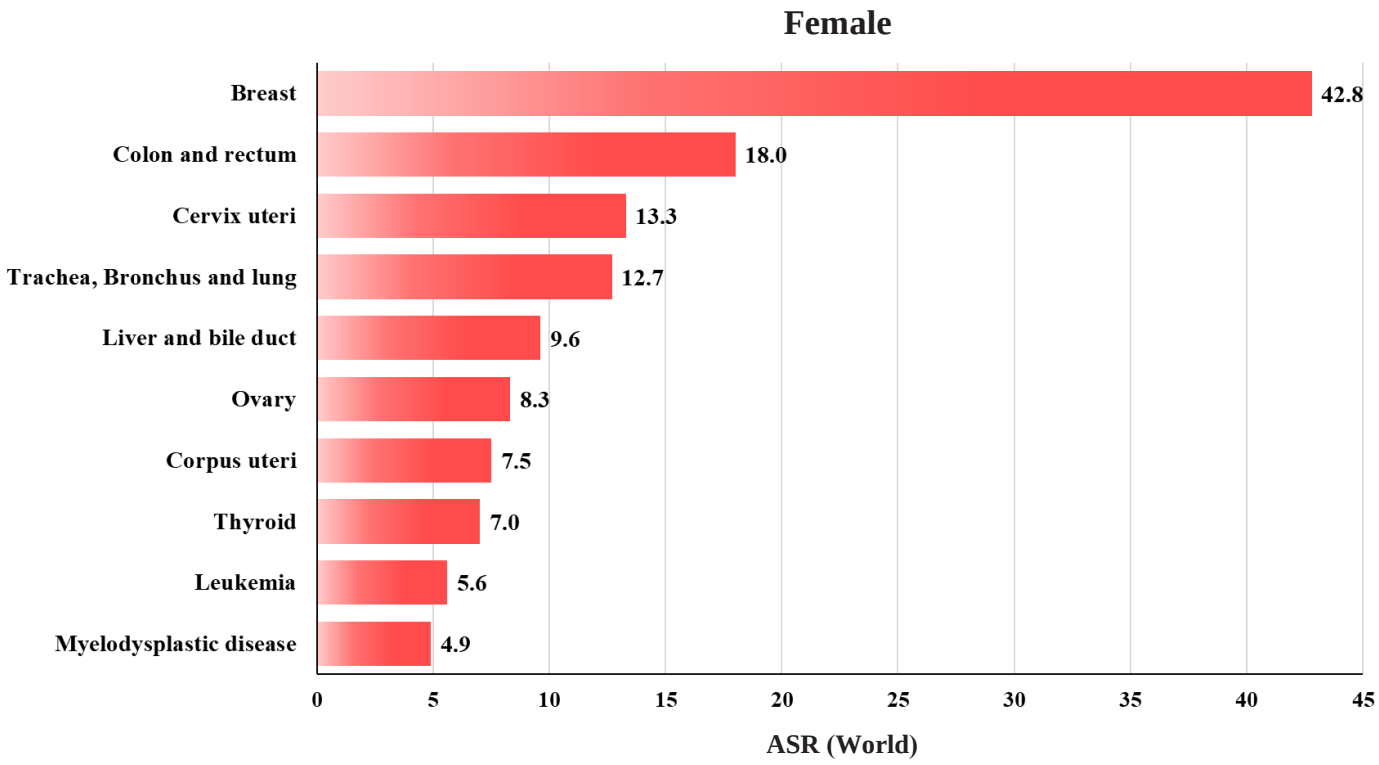


Table 3.12.1 Chon Buri (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C00	0.0	0.0
Tongue	24	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.9	4.7	4.4	11.9	19.7	6.0	31.3	11.8	3.2	2.9	C01-02	0.2	0.4
Mouth	19	0.9	0.0	0.0	0.8	0.0	0.0	0.0	0.4	1.8	3.1	3.8	6.8	8.8	12.0	15.7	13.8	2.4	2.3	C03-06	0.1	0.3
Salivary glands	6	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.4	2.1	0.6	1.7	2.2	4.5	10.4	2.0	0.8	0.8	C07-08	0.0	0.1
Tonsil	11	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.4	0.4	2.1	5.7	6.8	4.4	1.5	7.8	2.0	1.5	1.2	C09	0.1	0.1
Other oropharynx	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.1	3.2	9.4	7.7	7.5	0.0	3.9	1.5	1.3	C10	0.1	0.2
Nasopharynx	26	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	5.3	9.4	7.6	6.8	7.7	3.0	18.3	5.9	3.3	2.6	C11	0.2	0.3
Hypopharynx	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	4.2	3.2	7.7	11.0	10.5	13.1	3.9	2.1	1.9	C12-13	0.1	0.3
Pharynx unspecified	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.0	0.0	0.0	1.5	2.6	2.0	0.2	0.2	C14	0.0	0.0
Oesophagus	57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.2	7.8	13.9	24.7	36.1	49.4	44.4	31.5	7.5	6.8	C15	0.4	0.9
Stomach	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	3.7	5.1	6.0	9.9	19.5	20.9	37.4	3.3	3.0	C16	0.1	0.3
Small intestine	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.5	1.3	3.4	2.2	3.0	7.8	2.0	0.7	0.7	C17	0.0	0.1
Colon	136	0.0	0.0	0.0	0.8	0.0	1.7	1.6	1.6	7.5	11.0	18.3	48.6	66.8	92.8	172.3	159.4	17.7	16.5	C18	0.8	2.1
Rectum	91	0.0	0.0	0.0	0.0	1.1	0.8	0.0	1.2	4.0	10.5	21.5	35.8	39.4	70.4	70.5	100.4	11.9	10.7	C19-20	0.6	1.3
Anus	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	1.0	1.3	0.9	5.5	1.5	0.0	0.0	0.6	0.5	C21	0.1	0.1
Liver and bile duct	229	1.9	0.0	0.0	0.8	0.0	1.3	2.0	5.1	12.3	36.1	62.6	99.8	117.2	127.2	182.8	171.3	29.8	26.4	C22,C24	1.7	3.2
Gallbladder	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.0	0.6	1.7	2.2	0.0	5.2	3.9	0.5	0.5	C23	0.0	0.1
Pancreas	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.8	3.7	5.7	11.1	5.5	12.0	7.8	23.6	2.7	2.3	C25	0.1	0.2
Nose, sinuses etc.	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.0	3.8	0.9	1.1	4.5	0.0	2.0	0.7	0.5	C30-31	0.0	0.1
Larynx	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.3	2.1	8.2	11.1	8.8	24.0	20.9	25.6	3.4	3.1	C32	0.2	0.4
Trachea, Bronchus and lung	214	0.0	0.0	0.0	0.8	0.0	0.4	1.6	2.4	7.0	16.2	32.3	76.8	120.5	166.2	232.4	261.8	27.9	26.1	C33-34	1.3	3.3
Other thoracic organs	3	0.0	0.0	0.0	0.8	0.0	0.0	0.8	0.0	0.0	0.5	2.5	0.9	0.0	0.0	2.6	0.0	0.4	0.4	C37-38	0.0	0.0
Bone	9	0.0	1.8	2.0	2.4	1.1	0.4	1.2	0.0	0.4	1.0	1.9	3.4	2.2	0.0	2.6	0.0	1.1	1.2	C40-C41	0.1	0.1
Melanoma of skin	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C43	0.0	0.0
Other skin	37	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	1.3	2.6	6.3	6.8	9.9	22.5	41.8	80.7	4.8	4.4	C44	0.1	0.5
Mesothelioma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	2.0	0.1	0.1	C45	0.0	0.0
Kaposi's sarcoma	2	0.0	0.0	0.0	0.0	0.6	0.0	0.4	0.0	0.4	0.0	0.6	0.0	1.1	0.0	0.0	0.0	0.2	0.2	C46	0.0	0.0
Connective tissue	13	0.9	0.9	1.0	0.8	0.6	0.0	0.4	0.4	0.9	2.1	1.9	6.0	8.8	0.0	7.8	9.8	1.7	1.7	C47,C49	0.1	0.2
Breast	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.5	0.0	0.9	1.1	1.5	0.0	2.0	0.3	0.2	C50	0.0	0.0
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51	0.0	0.0
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52	0.0	0.0
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53	0.0	0.0
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54	0.0	0.0
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55	0.0	0.0
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56	0.0	0.0
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57	0.0	0.0
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58	0.0	0.0
Penis	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	1.0	2.5	1.7	3.3	3.0	2.6	5.9	0.9	0.7	C60	0.0	0.1
Prostate	97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	20.5	42.7	64.4	148.8	242.1	12.6	12.4	C61	0.3	1.4
Testis	9	0.0	0.0	0.0	0.8	1.7	1.3	2.0	2.4	1.8	1.0	0.6	0.0	1.1	0.0	0.0	2.0	1.2	0.9	C62	0.1	0.1
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.1	C63	0.0	0.0
Kidney	22	0.9	0.0	0.0	0.0	0.0	0.0	0.4	0.8	3.1	3.7	5.1	7.7	14.2	10.5	13.1	11.8	2.9	2.5	C64	0.2	0.3
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	C65	0.0	0.0
Ureter	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	2.2	4.5	2.6	0.0	0.3	0.3	C66	0.0	0.0
Bladder	48	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.9	1.6	3.8	7.7	25.2	35.9	75.7	88.6	6.2	6.1	C67	0.2	0.8
Other urinary organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	2.6	0.0	0.1	0.1	C68	0.0	0.0
Eye	1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	2.0	0.1	0.2	C69	0.0	0.0
Brain, nervous system	22	0.9	1.8	3.0	0.0	1.7	0.0	0.8	1.6	0.4	3.1	6.3	8.5	12.0	9.0	5.2	11.8	2.9	2.8	C70-72	0.2	0.3
Thyroid	15	0.0	0.0	0.0	0.0	0.0	1.7	1.6	2.0	2.2	1.6	3.2	4.3	2.2	7.5	7.8	5.9	1.9	1.5	C73	0.1	0.2
Adrenal gland	1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C74	0.0	0.0
Other endocrine	1	0.9	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.1	0.2	C75	0.0	0.0
Hodgkin disease	5	0.0	0.9	0.0	0.0	0.6	0.8	0.0	0.8	0.0	1.6	1.3	0.9	3.3	0.0	0.0	0.0	0.7	0.6	C81	0.1	0.1
Non-Hodgkin lymphoma	55	0.9	0.9	1.0	0.8	5.0	1.7	4.0	3.2	4.4	6.8	10.1	17.1	12.0	31.4	41.8	43.3	7.1	6.3	C82-85,C96	0.3	0.7
Multiple myeloma	10	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.9	0.5	2.5	6.0	3.3	7.5	7.8	5.9	1.3	1.2	C90	0.1	0.1
Lymphoid leukemia	10	5.6	2.7	0.0	0.0	0.6	0.4	0.0	0.0	0.0	1.0	1.9	1.7	3.3	3.0	2.6	11.8	1.3	1.8	C91	0.1	0.1
Myeloid leukemia	32	3.7	1.8	5.1	1.6	1.7	1.3	3.2	3.2	2.6	3.1	4.4	6.0	8.8	7.5	20.9	29.5	4.2	4.2	C92-94	0.2	0.4
Leukemia unspecified	10	0.9	1.8	0.0	0.8	1.7	0.0	0.4	0.8	1.3	0.5	1.3	0.9	6.6	1.5	5.2	7.9	1.3	1.3	C95	0.1	0.1
Myelodysplastic disease	50	1.9	0.0	1.0	0.8	1.1	1.7	2.4	1.6	3.1	6.3	6.3	11.1	21.9	18.0	44.4	74.8	6.5	6.0	D45-D47	0.3	0.6
Other and unspecified	48	0.9	0.0	0.0	0.0	0.6	0.4	0.0	1.2	4.8	5.8	10.1	13.7	17.5	40.4	31.3	55.1	6.2	5.6	O&U	0.3	0.6
All sites	**1,446**	**22.4**	**12.7**	**13.1**	**13.0**	**19.6**	**14.2**	**26.1**	**34.7**	**81.3**	**168.0**	**280.2**	**499.1**	**679.1**	**884.7**	**1,339.4**	**1,559.1**	**188.5**	**173.3**	**ALL**	**9.3**	**20.4**

Table 3.12.2 Chon Buri (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.0	2.7	0.2	0.1	C00	0.0	0.0
Tongue	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	2.1	0.6	1.5	3.7	5.1	4.1	9.3	1.0	0.8	C01-02	0.0	0.1
Mouth	7	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	1.6	0.0	1.5	0.9	1.3	16.3	8.0	0.9	0.7	C03-06	0.0	0.1
Salivary glands	7	0.0	0.0	0.0	0.0	0.5	0.8	0.0	0.4	1.7	2.1	0.6	2.3	0.9	1.3	2.0	2.7	0.8	0.6	C07-08	0.0	0.1
Tonsil	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	1.2	0.8	0.9	0.0	2.0	0.0	0.2	0.2	C09	0.0	0.0
Other oropharynx	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C10	0.0	0.0
Nasopharynx	10	0.0	0.0	0.0	0.0	0.0	0.4	1.2	0.4	0.9	2.6	2.9	0.0	2.8	5.1	4.1	4.0	1.2	0.9	C11	0.1	0.1
Hypopharynx	2	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.8	0.0	2.0	0.0	0.2	0.3	C12-13	0.0	0.0
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	C14	0.0	0.0
Oesophagus	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.6	1.5	1.9	6.3	8.1	5.3	0.8	0.7	C15	0.0	0.1
Stomach	32	0.0	0.0	0.0	0.0	0.5	1.5	1.2	1.5	3.5	4.7	8.1	9.8	5.6	11.4	14.3	24.0	3.9	2.9	C16	0.2	0.3
Small intestine	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	3.0	2.8	6.3	2.0	5.3	0.8	0.6	C17	0.0	0.1
Colon	127	0.0	0.0	0.0	0.7	0.0	0.4	2.0	5.3	7.3	13.0	25.0	34.6	49.2	67.2	69.2	120.0	15.3	12.2	C18	0.7	1.4
Rectum	58	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.5	4.3	7.8	17.5	19.5	17.6	30.4	22.4	44.0	7.0	5.5	C19-20	0.3	0.6
Anus	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.0	1.2	0.8	0.0	0.0	0.0	4.0	0.4	0.3	C21	0.0	0.0
Liver and bile duct	99	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	3.5	9.3	9.3	26.3	32.5	49.4	99.8	124.0	11.9	9.6	C22,C24	0.4	1.2
Gallbladder	5	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.0	0.8	0.9	2.5	10.2	5.3	0.6	0.5	C23	0.0	0.1
Pancreas	26	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8	1.3	3.1	3.5	3.0	12.1	11.4	12.2	37.3	3.2	2.5	C25	0.1	0.2
Nose, sinuses etc.	2	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.4	0.5	0.0	0.0	0.9	0.0	0.0	1.3	0.2	0.2	C30-31	0.0	0.0
Larynx	2	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.8	0.0	0.0	0.2	0.2	C32	0.0	0.0
Trachea, Bronchus and lung	131	0.0	0.0	0.0	0.0	0.0	0.4	0.4	1.9	3.9	9.3	28.5	39.1	63.1	72.2	81.5	122.7	15.7	12.7	C33-34	0.7	1.5
Other thoracic organs	3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.0	1.2	0.0	0.9	1.3	2.0	1.3	0.4	0.3	C37-38	0.0	0.0
Bone	5	0.0	1.8	1.9	0.7	1.0	0.4	0.0	0.8	0.4	0.0	0.6	0.0	0.9	2.5	0.0	1.3	0.6	0.8	C40-C41	0.0	0.1
Melanoma of skin	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	C43	0.0	0.0
Other skin	35	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.9	1.3	3.6	3.5	3.0	9.3	17.7	18.3	60.0	4.2	3.2	C44	0.1	0.3
Mesothelioma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.1	0.0	C45	0.0	0.0
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46	0.0	0.0
Connective tissue	11	0.0	0.9	0.0	0.0	0.5	0.4	0.4	1.5	1.3	0.5	1.7	4.5	1.9	2.5	2.0	8.0	1.3	1.0	C47,C49	0.1	0.1
Breast	465	0.0	0.0	0.0	0.0	0.5	4.9	15.0	33.5	77.8	121.8	127.5	158.5	138.3	126.7	160.9	109.3	56.0	42.8	C50	3.4	4.8
Vulva	4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.8	1.9	2.5	2.0	6.7	0.5	0.4	C51	0.0	0.0
Vagina	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.8	0.0	1.3	2.0	2.7	0.3	0.2	C52	0.0	0.0
Cervix uteri	149	0.0	0.0	0.0	0.0	1.9	3.8	11.5	19.0	26.4	33.2	33.8	37.6	39.9	36.8	30.5	45.3	17.9	13.3	C53	1.0	1.4
Corpus uteri	79	0.0	0.0	1.0	0.0	1.0	0.4	4.0	3.8	5.6	9.8	21.5	33.8	32.5	44.4	22.4	22.7	9.5	7.5	C54	0.6	0.9
Uterus unspecified	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.5	1.2	2.3	2.8	2.5	0.0	0.0	0.5	0.4	C55	0.0	0.0
Ovary	88	0.0	0.0	1.9	2.9	1.5	3.0	4.7	8.8	13.4	18.1	23.3	18.0	24.1	33.0	24.4	25.3	10.6	8.3	C56	0.6	0.9
Other female genital organs	1	0.0	0.0	0.0	0.0	0.5	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.1	0.1	C57	0.0	0.0
Placenta	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	C58	0.0	0.0
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60	0.0	0.0
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61	0.0	0.0
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62	0.0	0.0
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63	0.0	0.0
Kidney	10	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.4	0.9	2.6	2.3	2.3	3.7	1.3	6.1	5.3	1.2	0.9	C64	0.1	0.1
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	0.0	0.0	1.3	0.1	0.1	C65	0.0	0.0
Ureter	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.5	4.1	2.7	0.3	0.2	C66	0.0	0.0
Bladder	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	2.3	2.3	4.6	5.1	18.3	21.3	1.7	1.4	C67	0.0	0.2
Other urinary organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.1	0.1	C68	0.0	0.0
Eye	0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	C69	0.0	0.0
Brain, nervous system	23	1.8	1.8	2.9	0.7	0.5	2.6	2.0	1.5	3.0	2.6	2.3	3.8	5.6	2.5	4.1	14.7	2.7	2.5	C70-72	0.2	0.2
Thyroid	80	0.0	0.0	0.0	1.4	1.5	7.2	11.9	12.2	14.7	18.7	10.5	19.5	13.9	13.9	12.2	9.3	9.6	7.0	C73	0.6	0.7
Adrenal gland	1	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.2	0.3	C74	0.0	0.0
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C75	0.0	0.0
Hodgkin disease	6	0.0	0.0	0.0	1.4	1.0	1.5	1.6	0.0	0.0	1.6	0.0	0.0	2.8	1.3	0.0	0.0	0.8	0.7	C81	0.0	0.1
Non-Hodgkin lymphoma	48	0.9	0.9	0.0	0.7	1.5	2.3	0.8	3.4	5.2	7.3	7.6	16.5	14.9	22.8	24.4	20.0	5.8	4.8	C82-85,C96	0.3	0.5
Multiple myeloma	11	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.9	0.5	1.2	3.0	2.8	7.6	10.2	10.7	1.3	1.0	C90	0.0	0.1
Lymphoid leukemia	9	6.4	1.8	1.0	0.7	0.5	0.0	0.0	0.4	0.0	0.0	1.7	0.0	1.9	5.1	8.1	2.7	1.1	1.7	C91	0.1	0.1
Myeloid leukemia	32	0.9	0.9	1.0	2.2	1.9	1.1	0.8	0.8	4.3	5.2	4.7	10.5	7.4	8.9	10.2	24.0	3.9	3.3	C92-94	0.2	0.3
Leukemia unspecified	5	0.9	0.0	0.0	0.0	0.5	0.0	0.0	0.4	0.4	0.5	0.6	2.3	1.9	1.3	2.0	2.7	0.6	0.6	C95	0.0	0.1
Myelodysplastic disease	52	0.0	0.0	0.0	0.7	1.0	1.9	1.6	1.5	5.6	5.2	5.8	13.5	13.9	17.7	42.8	50.7	6.2	4.9	D45-D47	0.3	0.6
Other and unspecified	47	0.9	0.0	0.0	0.0	0.5	0.8	0.4	1.1	2.6	5.2	9.9	13.5	11.1	24.1	26.5	49.3	5.6	4.5	O&U	0.2	0.5
All sites	**1,727**	**14.7**	**9.7**	**9.6**	**12.2**	**17.0**	**35.5**	**64.8**	**106.2**	**192.7**	**296.9**	**362.6**	**492.1**	**539.5**	**661.6**	**786.2**	**1,024.0**	**207.8**	**164.0**	**ALL**	**10.8**	**18.0**

Table 3.12.3 Mean annual incidence, Chon Buri, 2019-2021

Site	Male						Female						ICD-10
	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	
Lip	0	0.0	0.0	0.0	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C00
Tongue	24	1.7	3.2	2.9	0.2	0.4	8	0.5	1.0	0.8	0.0	0.1	C01-02
Mouth	19	1.3	2.4	2.3	0.1	0.3	7	0.4	0.9	0.7	0.0	0.1	C03-06
Salivary glands	6	0.4	0.8	0.8	0.0	0.1	7	0.4	0.8	0.6	0.0	0.1	C07-08
Tonsil	11	0.8	1.5	1.2	0.1	0.1	2	0.1	0.2	0.2	0.0	0.0	C09
Other oropharynx	12	0.8	1.5	1.3	0.1	0.2	0	0.0	0.0	0.0	0.0	0.0	C10
Nasopharynx	26	1.8	3.3	2.6	0.2	0.3	10	0.6	1.2	0.9	0.1	0.1	C11
Hypopharynx	16	1.1	2.1	1.9	0.1	0.3	2	0.1	0.2	0.3	0.0	0.0	C12-13
Pharynx unspecified	2	0.1	0.2	0.2	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C14
Oesophagus	57	4.0	7.5	6.8	0.4	0.9	7	0.4	0.8	0.7	0.0	0.1	C15
Stomach	25	1.8	3.3	3.0	0.1	0.3	32	1.9	3.9	2.9	0.2	0.3	C16
Small intestine	6	0.4	0.7	0.7	0.0	0.1	6	0.4	0.8	0.6	0.0	0.1	C17
Colon	136	9.4	17.7	16.5	0.8	2.1	127	7.4	15.3	12.2	0.7	1.4	C18
Rectum	91	6.3	11.9	10.7	0.6	1.3	58	3.4	7.0	5.5	0.3	0.6	C19-20
Anus	5	0.3	0.6	0.5	0.1	0.1	3	0.2	0.4	0.3	0.0	0.0	C21
Liver and bile duct	229	15.8	29.8	26.4	1.7	3.2	99	5.7	11.9	9.6	0.4	1.2	C22,C24
Gallbladder	4	0.3	0.5	0.5	0.0	0.1	5	0.3	0.6	0.5	0.0	0.1	C23
Pancreas	21	1.5	2.7	2.3	0.1	0.2	26	1.5	3.2	2.5	0.1	0.2	C25
Nose, sinuses etc.	5	0.3	0.7	0.5	0.0	0.1	2	0.1	0.2	0.2	0.0	0.0	C30-31
Larynx	26	1.8	3.4	3.1	0.2	0.4	2	0.1	0.2	0.2	0.0	0.0	C32
Trachea, Bronchus and lung	214	14.8	27.9	26.1	1.3	3.3	131	7.6	15.7	12.7	0.7	1.5	C33-34
Other thoracic organs	3	0.2	0.4	0.4	0.0	0.0	3	0.2	0.4	0.3	0.0	0.0	C37-38
Bone	9	0.6	1.1	1.2	0.1	0.1	5	0.3	0.6	0.8	0.0	0.1	C40-C41
Melanoma of skin	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C43
Other skin	37	2.6	4.8	4.4	0.1	0.5	35	2.0	4.2	3.2	0.1	0.3	C44
Mesothelioma	1	0.1	0.1	0.1	0.0	0.0	1	0.0	0.1	0.0	0.0	0.0	C45
Kaposi's sarcoma	2	0.1	0.2	0.2	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	13	0.9	1.7	1.7	0.1	0.2	11	0.6	1.3	1.0	0.1	0.1	C47,C49
Breast	2		0.3	0.2	0.0	0.0	465	26.9	56.0	42.8	3.4	4.8	C50
Vulva							4	0.2	0.5	0.4	0.0	0.0	C51
Vagina							2	0.1	0.3	0.2	0.0	0.0	C52
Cervix uteri							149	8.6	17.9	13.3	1.0	1.4	C53
Corpus uteri							79	4.6	9.5	7.5	0.6	0.9	C54
Uterus unspecified							4	0.2	0.5	0.4	0.0	0.0	C55
Ovary							88	5.1	10.6	8.3	0.6	0.9	C56
Other female genital organs							1	0.1	0.1	0.1	0.0	0.0	C57
Placenta							1	0.1	0.2	0.1	0.0	0.0	C58
Penis	7	0.5	0.9	0.7	0.0	0.1							C60
Prostate	97	6.7	12.6	12.4	0.3	1.4							C61
Testis	9	0.6	1.2	0.9	0.1	0.1							C62
Other male genital organs	0	0.0	0.0	0.1	0.0	0.0							C63
Kidney	22	1.5	2.9	2.5	0.2	0.3	10	0.6	1.2	0.9	0.1	0.1	C64
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C65
Ureter	2	0.2	0.3	0.3	0.0	0.0	2	0.1	0.3	0.2	0.0	0.0	C66
Bladder	48	3.3	6.2	6.1	0.2	0.8	14	0.8	1.7	1.4	0.0	0.2	C67
Other urinary organs	1	0.0	0.1	0.1	0.0	0.0	1	0.0	0.1	0.1	0.0	0.0	C68
Eye	1	0.1	0.1	0.2	0.0	0.0	0	0.0	0.0	0.1	0.0	0.0	C69
Brain, nervous system	22	1.5	2.9	2.8	0.2	0.3	23	1.3	2.7	2.5	0.2	0.2	C70-72
Thyroid	15	1.0	1.9	1.5	0.1	0.2	80	4.6	9.6	7.0	0.6	0.7	C73
Adrenal gland	1	0.0	0.1	0.1	0.0	0.0	1	0.1	0.2	0.3	0.0	0.0	C74
Other endocrine	1	0.1	0.1	0.2	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	5	0.3	0.7	0.6	0.1	0.1	6	0.4	0.8	0.7	0.0	0.1	C81
Non-Hodgkin lymphoma	55	3.8	7.1	6.3	0.3	0.7	48	2.8	5.8	4.8	0.3	0.5	C82-85,C96
Multiple myeloma	10	0.7	1.3	1.2	0.1	0.1	11	0.6	1.3	1.0	0.0	0.1	C90
Lymphoid leukemia	10	0.7	1.3	1.8	0.1	0.1	9	0.5	1.1	1.7	0.1	0.1	C91
Myeloid leukemia	32	2.2	4.2	4.2	0.2	0.4	32	1.9	3.9	3.3	0.2	0.3	C92-94
Leukemia unspecified	10	0.7	1.3	1.3	0.1	0.1	5	0.3	0.6	0.6	0.0	0.1	C95
Myelodysplastic disease	50	3.4	6.5	6.0	0.3	0.6	52	3.0	6.2	4.9	0.3	0.6	D45-D47
Other and unspecified	48	3.3	6.2	5.6	0.3	0.6	47	2.7	5.6	4.5	0.2	0.5	O&U
All sites	**1,446**	**100.0**	**188.5**	**173.3**	**9.3**	**20.4**	**1,727**	**100.0**	**207.8**	**164.0**	**10.8**	**18.0**	**ALL**

Table 3.12.4 Percentage of morphologically verified and death certificate only cases, Chon Buri

Site	Male			Female			ICD-10
	Cases 3 Year	%MV	%DCO	Cases 3 Year	%MV	%DCO	
Oral cavity	149	93.3	1.3	72	86.1	2.8	C00-C08
Oropharynx	74	98.6	0.0	7	71.4	14.3	C09-C10,C14
Nasopharynx	77	96.1	0.0	29	89.7	0.0	C11
Hypopharynx	48	93.8	2.1	6	66.7	16.7	C12-C13
Esophagus	172	89.0	0.0	20	85.0	0.0	C15
Stomach	76	82.9	2.6	96	89.6	0.0	C16
Small intestine	17	88.2	0.0	19	89.5	0.0	C17
Colon and rectum	694	93.2	0.4	566	87.1	0.4	C18-C21
Liver and bile duct	686	32.9	4.5	297	33.0	3.0	C22,C24
Gallbladder	12	50.0	0.0	15	40.0	0.0	C23
pancrease	63	57.1	1.6	79	41.8	1.3	C25
Nose,sinuses etc	15	86.7	0.0	6	83.3	0.0	C30-C31
Larynx	79	93.7	0.0	5	100.0	0.0	C32
Trachea, brochus and lung	643	71.7	3.6	392	79.8	2.0	C33-C34
Other thoracic organs	10	90.0	0.0	9	77.8	0.0	C37-C38
Bone	26	69.2	7.7	16	75.0	12.5	C40-C41
Melanoma of skin	0	0.0	0.0	1	100.0	0.0	C43
Other skin	111	95.5	0.9	104	92.3	1.0	C44
Mesothelioma	3	100.0	0.0	2	100.0	0.0	C45
Kaposi sarcoma	5	100.0	0.0	0	0.0	0.0	C46
Connective and soft tissue	39	100.0	0.0	32	90.6	0.0	C47,C49
Breast	7	100.0	0.0	1,395	93.4	0.4	C50
Vulva				12	100.0	0.0	C51
Vagina				7	100.0	0.0	C52
Cervix uteri				447	93.7	0.7	C53
Corpus uteri				236	94.5	0.4	C54
Uterus unspecified				12	75.0	0.0	C55
Ovary				265	78.5	0.0	C56
Other female genital organs				3	66.7	0.0	C57
Placenta				4	50.0	0.0	C58
Penis	20	90.0	0.0				C60
Prostate	290	76.9	2.4				C61
Testis	27	92.6	0.0				C62
Other male genital organs	1	100.0	0.0				C63
Kidney	66	84.8	1.5	30	70.0	0.0	C64
Renal pelvis	1	100.0	0.0	3	100.0	0.0	C65
Ureter	7	85.7	0.0	7	71.4	0.0	C66
Bladder	143	83.2	1.4	42	71.4	0.0	C67
Other urinary organs	2	100.0	0.0	2	50.0	0.0	C68
Eye	3	100.0	0.0	1	100.0	0.0	C69
Brain, nervous system	67	64.2	4.5	68	51.5	4.4	C70-C72
Thyroid	44	95.5	0.0	239	95.4	0.0	C73
Adrenal gland	2	50.0	0.0	4	100.0	0.0	C74
Other endocrine	3	100.0	0.0	0	0.0	0.0	C75
Hodgkin disease	15	100.0	0.0	19	100.0	0.0	C81
Non-Hodgkin lymphoma	164	100.0	0.0	145	100.0	0.0	C82-C85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	29	100.0	0.0	32	100.0	0.0	C90
Leukemia	157	100.0	0.0	140	100.0	0.0	C91-C95
Myelodysplastic	149	100.0	0.0	155	100.0	0.0	D45-D47
Other and unspecified	143	44.8	20.3	140	40.7	17.1	O&U
All sites	**4,339**	**76.8**	**2.5**	**5,181**	**84.5**	**1.2**	**All**
All sites without liver	**3,653**	**85.1**	**2.1**	**4,884**	**87.6**	**1.1**	**All**

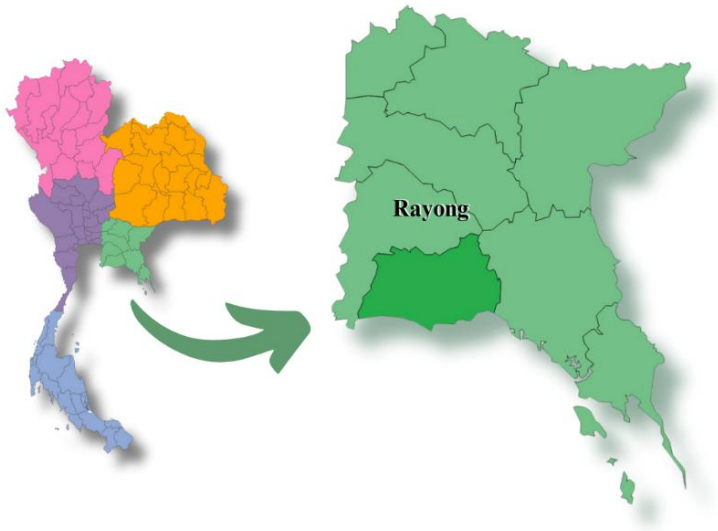
3.13 Rayong Cancer Registry

Registration area

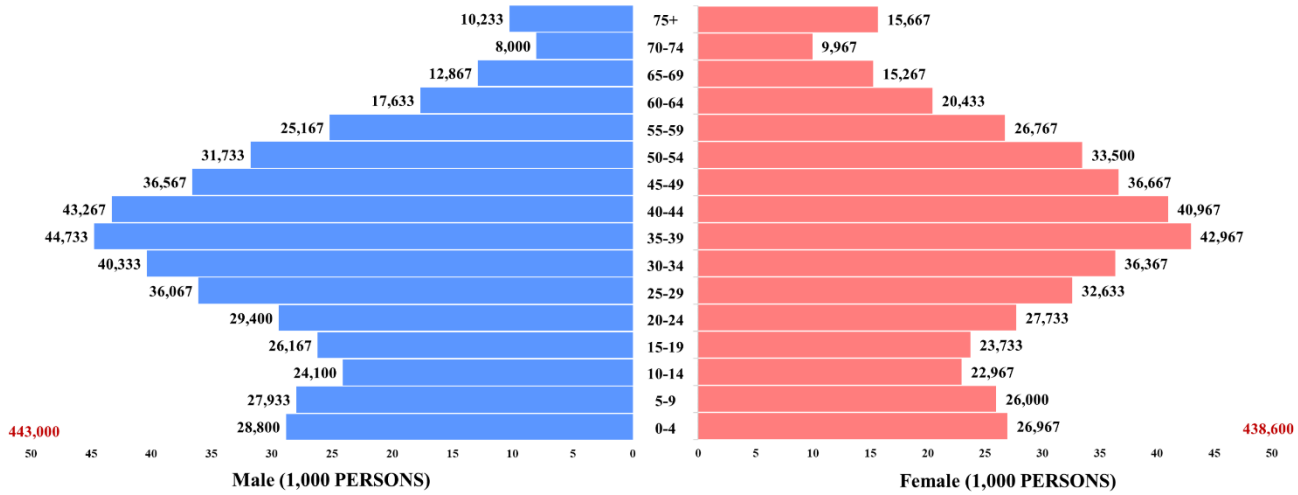
Rayong is one of the eight provinces in the Eastern part of Thailand, which situates between 12º-13º N and 101º-102º E. This province is far from Bangkok, 179 kilometers, 5 meters above sea level. It covers 3,552 square kilometers and is bordered on the North and the West by Chon Buri, the East by Chanthaburi, and the South by the Gulf of Thailand.

The province had comprising of coastal plains, slope, hilly land, mountains and two major rivers which flow to the sea about 100 kilometers of sea shore on the South. The climate is rather warm, the highest temperature about 38.7º C in summer from March to May, 17.8º C in winter from November to February, rainy season started from May to October. The average total rainfall is 3,509.4 millimeters per year.

The most important occupations are farming of vegetables and fruits, fishing, shrimp and farming. The Industrial Estate Authority of Eastern part of Thailand is situated in Rayong since 1981. There are many factories contributing to successful cultivation of fruits especially durian, rambutan, mangosteen. Quiet and unspoiled beach, Mu Koh Samet National Park, is a popular beach for Rayong tourism.



Population pyramid Rayong
estimated population in 2020 (2019 – 2021)



Cancer care facilities

The total number of hospitals in Rayong province was 12 hospitals composed of 8 community hospitals, 3 private hospitals and 1 provincial hospital. Cancer diagnostic services including radiological diagnosis equipment such as: X-ray, ultrasound, mammography, computed tomography scan and pathological investigation are available in Rayong provincial hospital and some private hospital. MRI is available only in Bangkok Rayong hospital. Cancer surgery services, chemotherapy and targeted therapy are provided in both Rayong provincial hospital and private Hospital. Most of the cancer patients were referred to Chon Buri Cancer Hospital for radiotherapy. All hospitals in the province provide palliative care.

Registry procedures

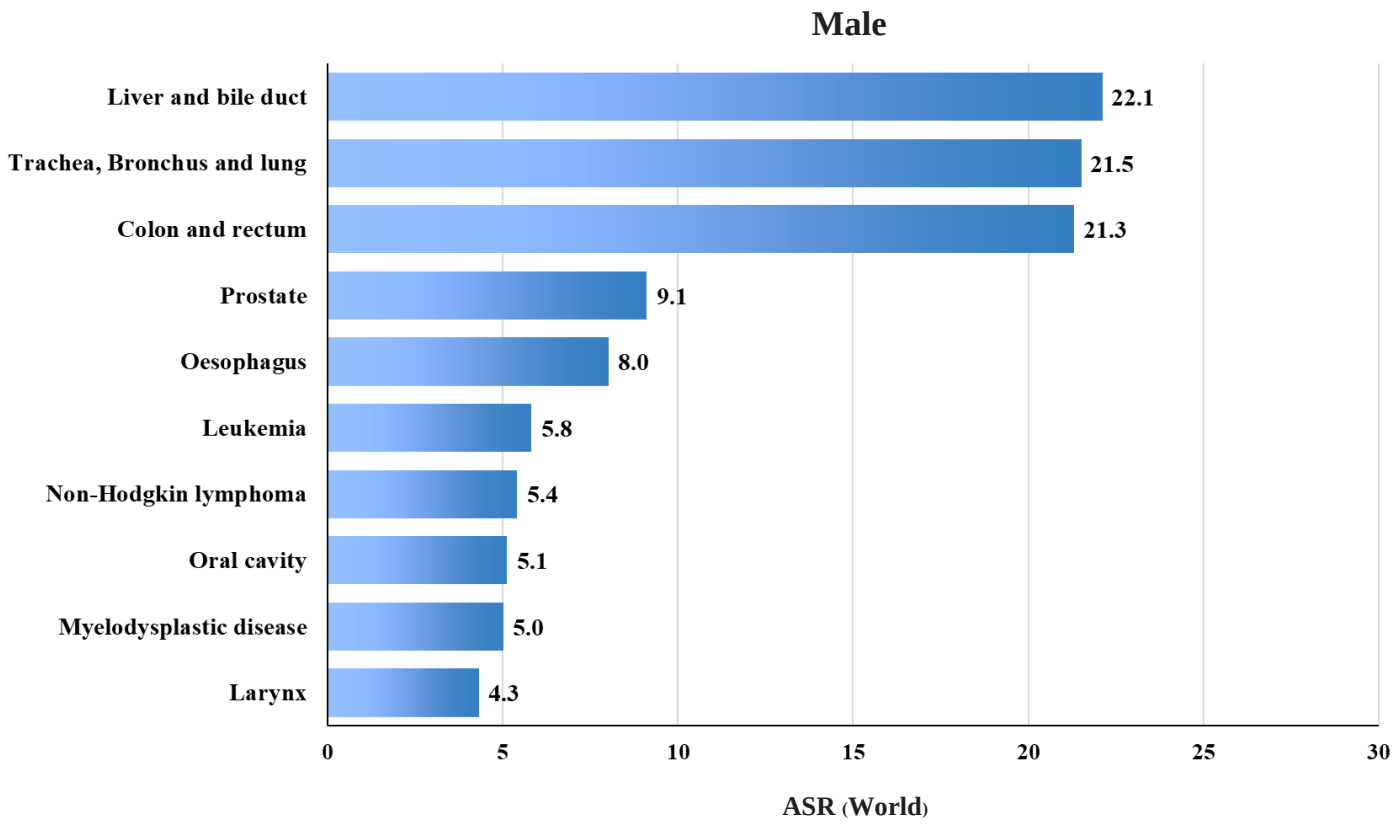
The data of Rayong residents are extracted from the hospital-based cancer registry of Chon Buri Cancer Hospital and mixture of passively and actively collected data of all hospital in Rayong. New cancer cases were collected from out and in patient departments, wards, surgery unit, cytology unit, hematology unit, medical record, pathological unit and autopsy service. The data information collected includes demographic details for each cancer patient that consists of: registry number, name, residential address, date of birth, age, sex, date of diagnosis, site of cancer, histology of cancer, staging, extension of disease, method of diagnosis, treatment, date of last contact and status of cancer patients (alive or dead). Multiple primary cases are checked by physicians using their original records and with any other physicians concerned. All cancer death certificates are matched with the incidence case records of the registry. Individual certified as having died of cancer are registered as “Death Certificate Only (DCO)” cases if no other information about the individual can be traced from the other sources.

The sources of information on cancer cases are mainly hospital and pathology laboratory records. Each completed case notification form is checked for duplication with computer software for Thai names before entering into the database programmed, CanReg5.

Summary of results

New cases registered in 2020, 744 were males and 767 were females, making 1,511 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 148.6 per 100,000, with liver cancer ranks first (ASR = 22.1) followed by lung (ASR = 21.5) and colon and rectum (ASR = 21.3). The ASR of all cancer sites in females was 129.6 per 100,000, three leading cancer sites being breast (ASR = 32.2), colon and rectum (ASR = 13.5) and cervix (ASR = 12.1).

Figure 3.13.1 Leading cancer in Rayong (mean annual ASR 2019-2021)



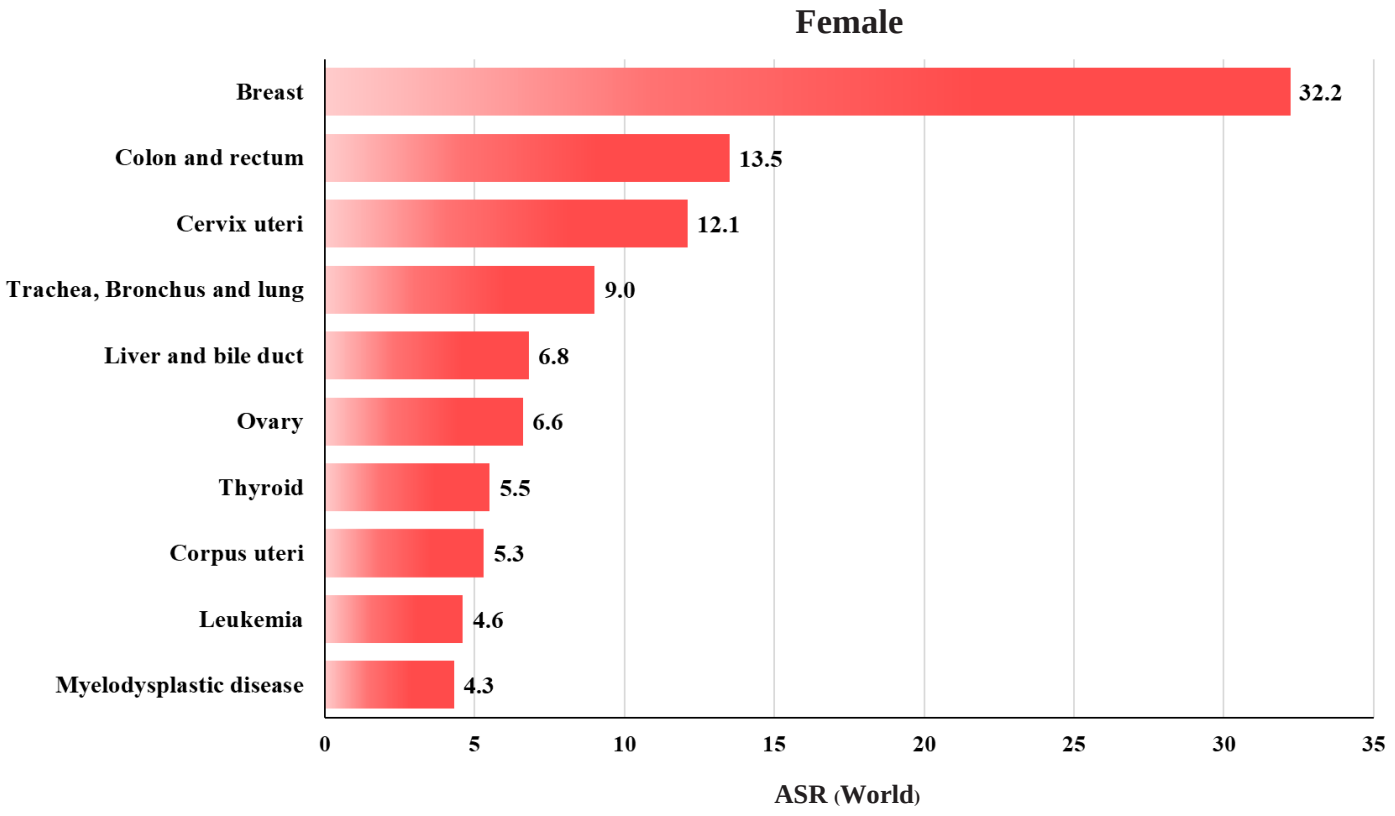


Table 3.13.1 Rayong (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.1	0.1	C00	0.0	0.0
Tongue	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.3	4.6	11.6	7.9	7.6	10.4	8.3	22.8	3.5	2.7	C01-02	0.2	0.3
Mouth	9	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.7	0.8	1.8	2.1	0.0	13.2	10.4	8.3	26.1	2.1	1.9	C03-06	0.1	0.2
Salivary glands	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.8	1.1	1.3	1.9	0.0	0.0	0.0	0.5	0.4	C07-08	0.0	0.0
Tonsil	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.7	2.1	4.0	1.9	2.6	0.0	6.5	1.1	0.8	C09	0.1	0.1
Other oropharynx	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.8	2.1	2.6	3.8	0.0	0.0	9.8	1.1	0.8	C10	0.1	0.1
Nasopharynx	15	0.0	0.0	0.0	0.0	0.0	0.9	0.0	6.0	2.3	4.6	4.2	10.6	17.0	5.2	12.5	3.3	3.3	2.6	C11	0.2	0.3
Hypopharynx	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	5.5	2.1	13.2	9.5	5.2	8.3	22.8	2.7	2.2	C12-13	0.2	0.2
Pharynx unspecified	1	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.2	0.1	C14	0.0	0.0
Oesophagus	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	6.2	6.4	14.7	34.4	35.9	41.5	66.7	52.1	9.3	8.0	C15	0.5	1.0
Stomach	11	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.7	2.3	1.8	1.1	6.6	11.3	13.0	8.3	19.5	2.4	2.1	C16	0.1	0.2
Small intestine	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.0	1.9	5.2	8.3	0.0	0.8	0.7	C17	0.0	0.1
Colon	65	0.0	0.0	0.0	1.3	0.0	2.8	2.5	1.5	6.2	10.9	17.9	27.8	47.3	80.3	104.2	149.8	14.6	13.0	C18	0.6	1.5
Rectum	40	0.0	0.0	0.0	0.0	0.0	0.9	1.7	2.2	3.1	7.3	13.7	19.9	22.7	80.3	54.2	61.9	9.1	8.0	C19-20	0.4	1.0
Anus	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	7.8	0.0	0.0	0.4	0.3	C21	0.0	0.0
Liver and bile duct	116	0.0	0.0	0.0	1.3	0.0	0.9	4.1	7.5	12.3	38.3	49.4	71.5	132.3	88.1	100.0	143.3	26.2	22.1	C22,C24	1.6	2.5
Gallbladder	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.1	2.6	0.0	7.8	4.2	3.3	0.8	0.6	C23	0.0	0.1
Pancreas	16	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	3.9	3.6	6.3	2.6	11.3	15.5	12.5	39.1	3.5	3.0	C25	0.2	0.3
Nose, sinuses etc.	4	0.0	1.2	1.4	0.0	0.0	0.0	0.8	0.7	0.0	3.6	0.0	2.6	1.9	0.0	0.0	0.0	0.8	0.7	C30-31	0.1	0.1
Larynx	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	9.1	3.2	13.2	24.6	20.7	29.2	39.1	4.9	4.3	C32	0.3	0.5
Trachea, Bronchus and lung	106	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.7	10.8	11.9	22.1	45.0	71.8	126.9	204.2	306.2	24.0	21.5	C33-34	0.8	2.5
Other thoracic organs	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.1	1.3	1.9	0.0	4.2	0.0	0.5	0.4	C37-38	0.0	0.1
Bone	5	1.2	0.0	1.4	1.3	0.0	0.9	0.0	0.0	0.0	0.9	1.1	5.3	3.8	2.6	4.2	3.3	1.1	1.1	C40-C41	0.1	0.1
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	0.0	5.3	0.0	2.6	0.0	0.0	0.5	0.4	C43	0.0	0.0
Other skin	15	0.0	1.2	0.0	0.0	3.4	0.9	0.8	0.0	0.8	0.9	2.1	5.3	1.9	15.5	20.8	65.1	3.5	3.2	C44	0.1	0.3
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.1	0.1	C45	0.0	0.0
Kaposi's sarcoma	1	0.0	0.0	1.4	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C46	0.0	0.0
Connective tissue	6	0.0	0.0	0.0	0.0	1.1	1.8	0.8	0.7	0.0	0.9	3.2	1.3	3.8	2.6	12.5	6.5	1.4	1.2	C47,C49	0.1	0.1
Breast	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.0	1.9	0.0	0.0	9.8	0.6	0.5	C50	0.0	0.0
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51	0.0	0.0
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52	0.0	0.0
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53	0.0	0.0
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54	0.0	0.0
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55	0.0	0.0
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56	0.0	0.0
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57	0.0	0.0
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58	0.0	0.0
Penis	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	0.9	5.3	0.0	3.8	10.4	0.0	3.3	1.3	1.0	C60	0.1	0.1
Prostate	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.0	2.1	13.2	22.7	67.4	79.2	192.2	9.8	9.1	C61	0.2	0.9
Testis	2	1.2	0.0	1.4	0.0	2.3	0.9	0.0	0.0	0.0	0.0	1.1	0.0	0.0	2.6	0.0	0.0	0.5	0.6	C62	0.0	0.0
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	C63	0.0	0.0
Kidney	9	1.2	0.0	0.0	0.0	1.1	0.9	0.0	2.2	3.9	0.9	1.1	0.0	3.8	15.5	16.7	3.3	2.0	1.8	C64	0.1	0.2
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.1	0.1	C65	0.0	0.0
Bladder	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.2	15.9	17.0	23.3	29.2	55.4	4.6	4.1	C67	0.2	0.5
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C68	0.0	0.0
Eye	1	2.3	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	C69	0.0	0.0
Brain, nervous system	9	1.2	2.4	0.0	0.0	0.0	2.8	0.8	0.0	1.5	0.9	2.1	2.6	9.5	15.5	0.0	9.8	2.1	2.0	C70-72	0.1	0.2
Thyroid	8	0.0	0.0	0.0	0.0	1.1	1.8	1.7	1.5	2.3	1.8	0.0	6.6	3.8	5.2	4.2	9.8	1.9	1.5	C73	0.1	0.2
Adrenal gland	2	2.3	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	4.2	0.0	0.4	0.5	C74	0.0	0.0
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.1	0.1	C75	0.0	0.0
Hodgkin disease	3	0.0	1.2	1.4	1.3	0.0	2.8	1.7	0.0	0.8	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.8	0.8	C81	0.1	0.1
Non-Hodgkin lymphoma	27	0.0	1.2	2.8	3.8	2.3	0.0	2.5	5.2	3.9	10.9	7.4	10.6	18.9	31.1	12.5	22.8	6.2	5.4	C82-85,C96	0.3	0.6
Multiple myeloma	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	2.1	2.6	5.7	7.8	4.2	13.0	1.2	1.1	C90	0.1	0.1
Lymphoid leukemia	6	5.8	4.8	1.4	0.0	2.3	0.0	0.0	0.0	1.5	0.0	0.0	0.0	3.8	0.0	0.0	6.5	1.4	1.9	C91	0.1	0.1
Myeloid leukemia	10	2.3	0.0	1.4	0.0	3.4	1.8	3.3	0.0	1.5	0.0	0.0	4.0	1.9	13.0	0.0	19.5	2.2	2.1	C92-94	0.1	0.2
Leukemia unspecified	8	1.2	1.2	0.0	3.8	0.0	1.8	1.7	1.5	0.8	0.9	1.1	1.3	1.9	10.4	4.2	9.8	1.8	1.8	C95	0.1	0.2
Myelodysplastic disease	24	3.5	0.0	0.0	0.0	1.1	2.8	0.8	0.7	2.3	3.6	4.2	11.9	7.6	28.5	41.7	58.6	5.4	5.0	D45-D47	0.2	0.5
Other and unspecified	32	0.0	0.0	1.4	0.0	2.3	1.8	0.8	3.7	2.3	4.6	9.5	14.6	26.5	44.0	37.5	52.1	7.1	6.4	O&U	0.3	0.7
All sites	**744**	**22.0**	**13.1**	**15.2**	**12.7**	**20.4**	**28.7**	**28.9**	**49.9**	**80.9**	**150.4**	**208.0**	**380.1**	**559.5**	**818.7**	**904.2**	**1,449.5**	**167.9**	**148.6**	**ALL**	**7.8**	**16.5**

Table 3.13.2 Rayong (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.0	0.0	0.0	2.2	0.0	4.3	0.4	0.2	C00	0.0	0.0
Tongue	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.8	0.0	1.2	3.3	13.1	3.3	21.3	1.8	1.3	C01-02	0.0	0.1
Mouth	7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.7	6.5	10.9	10.0	6.4	1.5	1.3	C03-06	0.1	0.2
Salivary glands	1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.9	0.0	1.2	0.0	0.0	0.0	0.0	0.2	0.2	C07-08	0.0	0.0
Tonsil	1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.2	0.2	C09	0.0	0.0
Other oropharynx	2	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.2	0.0	4.3	0.4	0.3	C10	0.0	0.0
Nasopharynx	6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6	3.3	2.7	4.0	1.2	1.6	2.2	0.0	4.3	1.4	1.0	C11	0.1	0.1
Hypopharynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.6	4.4	0.0	2.1	0.4	0.3	C12-13	0.0	0.0
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C14	0.0	0.0
Oesophagus	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	3.0	6.2	3.3	6.6	10.0	17.0	2.0	1.4	C15	0.1	0.2
Stomach	13	0.0	0.0	0.0	0.0	0.0	1.0	0.9	2.3	6.5	5.5	4.0	5.0	3.3	4.4	3.3	12.8	2.9	2.0	C16	0.1	0.2
Small intestine	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.2	0.2	C17	0.0	0.0
Colon	53	0.0	0.0	0.0	0.0	1.2	2.0	1.8	3.9	5.7	10.0	17.9	28.6	27.7	30.6	90.3	66.0	12.0	8.7	C18	0.5	1.1
Rectum	26	0.0	0.0	0.0	1.4	0.0	0.0	0.9	2.3	2.4	3.6	9.0	13.7	27.7	28.4	23.4	19.1	5.9	4.5	C19-20	0.3	0.6
Anus	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	1.0	1.2	1.6	0.0	0.0	0.0	0.4	0.3	C21	0.0	0.0
Liver and bile duct	41	0.0	1.3	0.0	1.4	0.0	0.0	0.0	0.8	5.7	2.7	9.0	19.9	35.9	28.4	50.2	74.5	9.3	6.8	C22,C24	0.4	0.8
Gallbladder	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.0	1.2	1.6	4.4	6.7	4.3	0.8	0.6	C23	0.0	0.1
Pancreas	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.9	4.0	5.0	3.3	8.7	20.1	12.8	2.2	1.6	C25	0.1	0.2
Nose, sinuses etc.	2	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	1.0	2.5	0.0	4.4	0.0	0.0	0.5	0.3	C30-31	0.0	0.0
Larynx	1	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.2	0.2	C32	0.0	0.0
Trachea, Bronchus and lung	55	0.0	0.0	0.0	0.0	0.0	1.0	0.0	2.3	3.3	12.7	13.9	17.4	37.5	67.7	40.1	102.1	12.5	9.0	C33-34	0.4	1.0
Other thoracic organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.2	0.0	2.2	0.0	0.0	0.2	0.2	C37-38	0.0	0.0
Bone	3	1.2	0.0	1.5	1.4	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	1.6	4.4	3.3	2.1	0.7	0.8	C40-C41	0.0	0.1
Melanoma of skin	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	1.0	1.2	1.6	0.0	0.0	10.6	0.7	0.4	C43	0.0	0.0
Other skin	18	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	1.8	4.0	2.5	9.8	24.0	23.4	46.8	4.2	3.1	C44	0.1	0.3
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C45	0.0	0.0
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46	0.0	0.0
Connective tissue	4	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.8	2.4	0.0	1.0	1.2	0.0	0.0	6.7	4.3	0.8	0.6	C47,C49	0.0	0.1
Breast	198	0.0	0.0	0.0	0.0	0.0	5.1	11.0	43.4	58.6	79.1	103.5	93.4	119.1	113.5	93.6	63.8	45.1	32.2	C50	2.6	3.6
Vulva	2	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	1.2	0.0	4.4	3.3	2.1	0.5	0.3	C51	0.0	0.0
Vagina	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.2	0.0	0.0	3.3	0.0	0.2	0.2	C52	0.0	0.0
Cervix uteri	75	0.0	0.0	0.0	0.0	2.4	6.1	11.0	27.9	23.6	25.5	27.9	22.4	32.6	37.1	23.4	46.8	17.1	12.1	C53	0.9	1.2
Corpus uteri	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.1	10.0	11.9	22.4	29.4	26.2	33.4	12.8	7.1	5.3	C54	0.4	0.7
Uterus unspecified	3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.8	3.6	0.0	0.0	3.3	0.0	3.3	2.1	0.8	0.6	C55	0.0	0.1
Ovary	38	0.0	0.0	0.0	4.2	1.2	2.0	2.7	3.1	9.8	15.5	15.9	17.4	19.6	10.9	56.9	17.0	8.7	6.6	C56	0.5	0.8
Other female genital organs	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.8	0.0	0.0	1.6	0.0	0.0	0.0	0.4	0.3	C57	0.0	0.0
Placenta	2	0.0	0.0	0.0	0.0	1.2	2.0	1.8	0.0	0.8	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	C58	0.0	0.0
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60	0.0	0.0
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61	0.0	0.0
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62	0.0	0.0
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63	0.0	0.0
Kidney	6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6	0.8	0.9	2.0	0.0	6.5	0.0	6.7	8.5	1.3	0.9	C64	0.1	0.1
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C65	0.0	0.0
Bladder	6	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.5	4.9	10.9	10.0	6.4	1.4	1.1	C67	0.0	0.2
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.1	0.0	C68	0.0	0.0
Eye	1	1.2	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.2	0.3	C69	0.0	0.0
Brain, nervous system	9	2.5	2.6	0.0	1.4	1.2	0.0	0.0	0.8	2.4	1.8	4.0	6.2	4.9	0.0	3.3	6.4	2.1	1.9	C70-72	0.1	0.2
Thyroid	30	0.0	0.0	1.5	1.4	7.2	9.2	4.6	5.4	5.7	11.8	9.0	14.9	13.1	8.7	16.7	4.3	6.8	5.5	C73	0.4	0.5
Adrenal gland	0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C74	0.0	0.0
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.1	0.1	C75	0.0	0.0
Hodgkin disease	3	0.0	0.0	0.0	1.4	2.4	3.1	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.7	0.7	C81	0.0	0.0
Non-Hodgkin lymphoma	18	0.0	2.6	0.0	0.0	2.4	3.1	0.9	0.8	2.4	3.6	7.0	6.2	9.8	15.3	6.7	25.5	4.2	3.3	C82-85,C96	0.2	0.3
Multiple myeloma	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.3	2.2	6.7	2.1	0.6	0.5	C90	0.0	0.1
Lymphoid leukemia	4	0.0	5.1	0.0	0.0	0.0	1.0	0.9	0.8	0.0	0.0	0.0	3.7	0.0	0.0	0.0	2.1	0.8	0.9	C91	0.1	0.1
Myeloid leukemia	10	6.2	1.3	2.9	1.4	2.4	1.0	3.7	2.3	0.8	1.8	1.0	0.0	4.9	2.2	3.3	6.4	2.4	2.6	C92-94	0.1	0.2
Leukemia unspecified	7	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6	1.6	2.7	1.0	2.5	3.3	2.2	10.0	6.4	1.5	1.1	C95	0.1	0.1
Myelodysplastic disease	26	0.0	1.3	0.0	0.0	1.2	1.0	1.8	3.1	3.3	2.7	2.0	6.2	13.1	19.7	30.1	63.8	6.0	4.3	D45-D47	0.2	0.4
Other and unspecified	20	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	4.9	2.7	3.0	11.2	14.7	13.1	10.0	42.6	4.6	3.2	O&U	0.2	0.3
All sites	**767**	**13.6**	**14.1**	**8.7**	**16.9**	**26.4**	**37.8**	**50.4**	**108.6**	**157.9**	**211.8**	**265.7**	**331.3**	**455.1**	**519.7**	**615.4**	**738.3**	**175.0**	**129.6**	**ALL**	**8.5**	**14.2**

Table 3.13.3 Mean annual incidence, Rayong, 2019-2021

Site	Male						Female						ICD-10
	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	
Lip	0	0.0	0.1	0.1	0.0	0.0	2	0.2	0.4	0.2	0.0	0.0	C00
Tongue	15	2.1	3.5	2.7	0.2	0.3	8	1.0	1.8	1.3	0.0	0.1	C01-02
Mouth	9	1.3	2.1	1.9	0.1	0.2	7	0.9	1.5	1.3	0.1	0.2	C03-06
Salivary glands	2	0.3	0.5	0.4	0.0	0.0	1	0.1	0.2	0.2	0.0	0.0	C07-08
Tonsil	5	0.6	1.1	0.8	0.1	0.1	1	0.1	0.2	0.2	0.0	0.0	C09
Other oropharynx	5	0.6	1.1	0.8	0.1	0.1	2	0.2	0.4	0.3	0.0	0.0	C10
Nasopharynx	15	2.0	3.3	2.6	0.2	0.3	6	0.8	1.4	1.0	0.1	0.1	C11
Hypopharynx	12	1.6	2.7	2.2	0.2	0.2	2	0.2	0.4	0.3	0.0	0.0	C12-13
Pharynx unspecified	1	0.1	0.2	0.1	0.0	0.0	0	0.0	0.1	0.1	0.0	0.0	C14
Oesophagus	41	5.5	9.3	8.0	0.5	1.0	9	1.1	2.0	1.4	0.1	0.2	C15
Stomach	11	1.4	2.4	2.1	0.1	0.2	13	1.7	2.9	2.0	0.1	0.2	C16
Small intestine	3	0.4	0.8	0.7	0.0	0.1	1	0.1	0.2	0.2	0.0	0.0	C17
Colon	65	8.7	14.6	13.0	0.6	1.5	53	6.9	12.0	8.7	0.5	1.1	C18
Rectum	40	5.4	9.1	8.0	0.4	1.0	26	3.4	5.9	4.5	0.3	0.6	C19-20
Anus	2	0.2	0.4	0.3	0.0	0.0	2	0.2	0.4	0.3	0.0	0.0	C21
Liver and bile duct	116	15.6	26.2	22.1	1.6	2.5	41	5.3	9.3	6.8	0.4	0.8	C22,C24
Gallbladder	3	0.4	0.8	0.6	0.0	0.1	3	0.4	0.8	0.6	0.0	0.1	C23
Pancreas	16	2.1	3.5	3.0	0.2	0.3	10	1.3	2.2	1.6	0.1	0.2	C25
Nose, sinuses etc.	4	0.5	0.8	0.7	0.1	0.1	2	0.3	0.5	0.3	0.0	0.0	C30-31
Larynx	22	2.9	4.9	4.3	0.3	0.5	1	0.1	0.2	0.2	0.0	0.0	C32
Trachea, Bronchus and lung	106	14.3	24.0	21.5	0.8	2.5	55	7.1	12.5	9.0	0.4	1.0	C33-34
Other thoracic organs	2	0.3	0.5	0.4	0.0	0.1	1	0.1	0.2	0.2	0.0	0.0	C37-38
Bone	5	0.7	1.1	1.1	0.1	0.1	3	0.4	0.7	0.8	0.0	0.1	C40-C41
Melanoma of skin	2	0.3	0.5	0.4	0.0	0.0	3	0.4	0.7	0.4	0.0	0.0	C43
Other skin	15	2.1	3.5	3.2	0.1	0.3	18	2.4	4.2	3.1	0.1	0.3	C44
Mesothelioma	0	0.0	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	1	0.1	0.2	0.2	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	6	0.8	1.4	1.2	0.1	0.1	4	0.5	0.8	0.6	0.0	0.1	C47,C49
Breast	3		0.6	0.5	0.0	0.0	198	25.8	45.1	32.2	2.6	3.6	C50
Vulva							2	0.3	0.5	0.3	0.0	0.0	C51
Vagina							1	0.1	0.2	0.2	0.0	0.0	C52
Cervix uteri							75	9.8	17.1	12.1	0.9	1.2	C53
Corpus uteri							31	4.0	7.1	5.3	0.4	0.7	C54
Uterus unspecified							3	0.4	0.8	0.6	0.0	0.1	C55
Ovary							38	5.0	8.7	6.6	0.5	0.8	C56
Other female genital organs							2	0.2	0.4	0.3	0.0	0.0	C57
Placenta							2		0.5	0.5	0.0	0.0	C58
Penis	6	0.8	1.3	1.0	0.1	0.1							C60
Prostate	43	5.8	9.8	9.1	0.2	0.9							C61
Testis	2	0.3	0.5	0.6	0.0	0.0							C62
Other male genital organs	0	0.0	0.1	0.0	0.0	0.0							C63
Kidney	9	1.2	2.0	1.8	0.1	0.2	6	0.7	1.3	0.9	0.1	0.1	C64
Renal pelvis	0	0.0	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C65
Bladder	20	2.7	4.6	4.1	0.2	0.5	6	0.8	1.4	1.1	0.0	0.2	C67
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C68
Eye	1	0.1	0.2	0.3	0.0	0.0	1	0.1	0.2	0.3	0.0	0.0	C69
Brain, nervous system	9	1.3	2.1	2.0	0.1	0.2	9	1.2	2.1	1.9	0.1	0.2	C70-72
Thyroid	8	1.1	1.9	1.5	0.1	0.2	30	3.9	6.8	5.5	0.4	0.5	C73
Adrenal gland	2	0.2	0.4	0.5	0.0	0.0	0	0.0	0.1	0.1	0.0	0.0	C74
Other endocrine	0	0.0	0.1	0.1	0.0	0.0	0	0.0	0.1	0.1	0.0	0.0	C75
Hodgkin disease	3	0.4	0.8	0.8	0.1	0.1	3	0.4	0.7	0.7	0.0	0.0	C81
Non-Hodgkin lymphoma	27	3.7	6.2	5.4	0.3	0.6	18	2.4	4.2	3.3	0.2	0.3	C82-85,C96
Multiple myeloma	5	0.7	1.2	1.1	0.1	0.1	3	0.3	0.6	0.5	0.0	0.1	C90
Lymphoid leukemia	6	0.8	1.4	1.9	0.1	0.1	4	0.5	0.8	0.9	0.1	0.1	C91
Myeloid leukemia	10	1.3	2.2	2.1	0.1	0.2	10	1.3	2.4	2.6	0.1	0.2	C92-94
Leukemia unspecified	8	1.1	1.8	1.8	0.1	0.2	7	0.9	1.5	1.1	0.1	0.1	C95
Myelodysplastic disease	24	3.2	5.4	5.0	0.2	0.5	26	3.4	6.0	4.3	0.2	0.4	D45-D47
Other and unspecified	32	4.3	7.1	6.4	0.3	0.7	20	2.6	4.6	3.2	0.2	0.3	O&U
All sites	**744**	**100.0**	**167.9**	**148.6**	**7.8**	**16.5**	**767**	**100.0**	**175**	**129.6**	**8.5**	**14.2**	**All**

Table 3.13.4 Percentage of morphologically verified and death certificate only cases, Rayong

Site	Male			Female			ICD-10
	Cases 3 Year	%MV	%DCO	Cases 3 Year	%MV	%DCO	
Oral cavity	82	79.3	0.0	52	73.1	3.8	C00-C08
Oropharynx	30	83.3	0.0	8	50.0	0.0	C09-C10,C14
Nasopharynx	44	97.7	0.0	19	89.5	0.0	C11
Hypopharynx	36	91.7	0.0	5	80.0	0.0	C12-C13
Esophagus	123	99.2	0.0	26	76.9	0.0	C15
Stomach	32	65.6	6.3	38	76.3	2.6	C16
Small intestine	10	100.0	0.0	3	66.7	0.0	C17
Colon and rectum	320	97.2	0.0	241	80.1	0.0	C18-C21
Liver and bile duct	348	18.7	8.0	123	24.4	6.5	C22,C24
Gallbladder	10	0.0	0.0	10	30.0	0.0	C23
pancrease	47	19.1	4.3	29	41.4	3.4	C25
Nose,sinuses etc	11	72.7	0.0	6	50.0	0.0	C30-C31
Larynx	65	86.2	1.5	2	50.0	0.0	C32
Trachea, brochus and lung	319	49.5	2.5	164	54.3	1.8	C33-C34
Other thoracic organs	6	66.7	0.0	3	66.7	0.0	C37-C38
Bone	15	80.0	6.7	9	33.3	22.2	C40-C41
Melanoma of skin	7	100.0	0.0	9	100.0	0.0	C43
Other skin	46	82.6	0.0	55	94.5	0.0	C44
Mesothelioma	1	100.0	0.0	0	0.0	0.0	C45
Kaposi sarcoma	2	100.0	0.0	0	0.0	0.0	C46
Connective and soft tissue	18	83.3	0.0	11	81.8	0.0	C47,C49
Breast	8	75.0	0.0	594	89.7	0.2	C50
Vulva				6	83.3	0.0	C51
Vagina				3	100.0	0.0	C52
Cervix uteri				225	88.9	0.0	C53
Corpus uteri				93	93.5	0.0	C54
Uterus unspecified				10	40.0	20.0	C55
Ovary				114	73.7	0.0	C56
Other female genital organs				5	80.0	0.0	C57
Placenta				7	57.1	14.3	C58
Penis	17	88.2	0.0				C60
Prostate	130	41.5	3.8				C61
Testis	7	71.4	0.0				C62
Other male genital organs	1	100.0	0.0				C63
Kidney	26	73.1	3.8	17	52.9	5.9	C64
Renal pelvis	1	100.0	0.0	0	0.0	0.0	C65
Ureter	0	0.0	0.0	0	0.0	0.0	C66
Bladder	61	77.0	1.6	18	55.6	5.6	C67
Other urinary organs	0	0.0	0.0	1	0.0	100.0	C68
Eye	3	100.0	0.0	3	66.7	0.0	C69
Brain, nervous system	28	57.1	14.3	28	60.7	0.0	C70-C72
Thyroid	25	88.0	0.0	89	89.9	0.0	C73
Adrenal gland	5	60.0	0.0	1	100.0	0.0	C74
Other endocrine	1	0.0	0.0	1	0.0	0.0	C75
Hodgkin disease	10	100.0	0.0	9	100.0	0.0	C81
Non-Hodgkin lymphoma	82	100.0	0.0	55	100.0	0.0	C82-C85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	16	100.0	0.0	8	100.0	0.0	C90
Leukemia	71	100.0	0.0	62	100.0	0.0	C91-C95
Myelodysplastic	72	100.0	0.0	79	100.0	0.0	D45-D47
Other and unspecified	95	36.8	17.9	61	44.3	18.0	O&U
All sites	**2,231**	**66.5**	**3.1**	**2,302**	**78.3**	**1.5**	**All**
All sites without liver	**1,883**	**75.3**	**2.2**	**2,179**	**81.4**	**1.2**	**All**

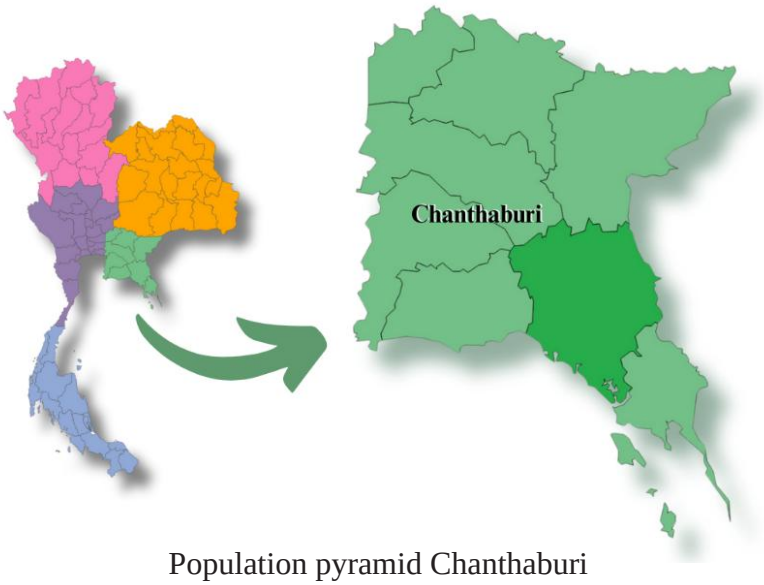
3.14 Chanthaburi Cancer Registry

Registration area

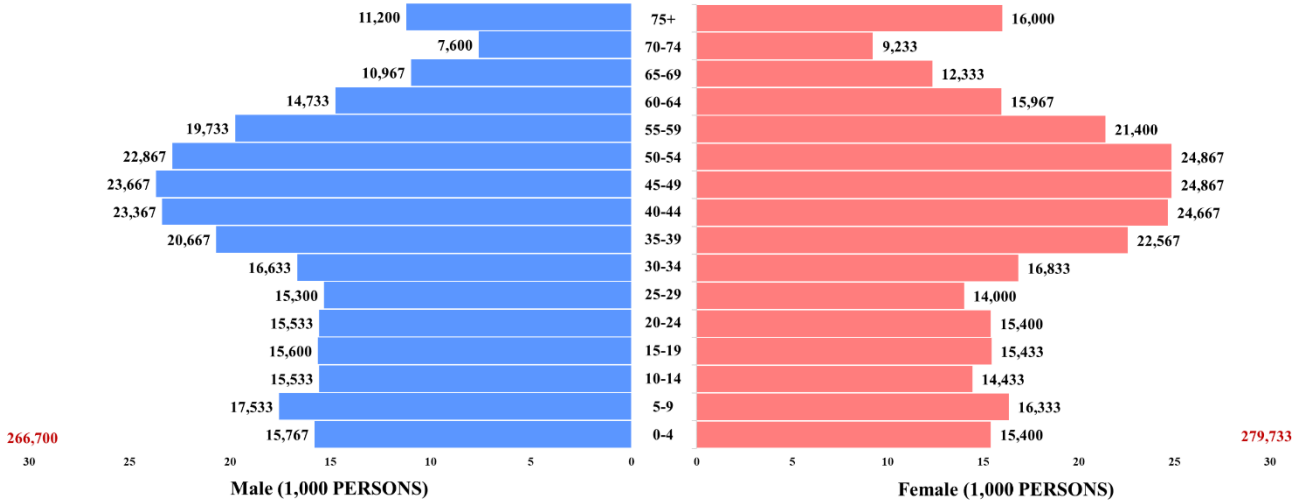
Chanthaburi is situated in the eastern part of Thailand, between 12°- 13° N and 101°-102° E, 245 kilometers from Bangkok by car or bus, with land area 6,338 square kilometers and is bounded in the north by Chon Buri Chachoengsao and Sa Kaeo, in the east by the kingdom of Cambodia and Trat, in the west by Rayong and Chon Buri and in the south by the bank of Gulf of Thailand.

The north-east of the province is predominantly mountainous and the forests which abundant in herbs and forest products such as gamboges, wax, cardamom, eaglewood, rattan and cinnamon, the sea shore stretching from north-west to south-west about 108 kilometers and 30-190 meters above the sea level. The climate is hot and dry the highest temperature about 42°C in summer from March to May, 13. 1°C in winter from November to February, rainy season started from June to October. The average total rainfall is 3509.4 millimeters per year.

At the time of census, in April 2000, Chanthaburi was divided into 10 districts, 76 communes (Tambon), 731 villages. The districts of Chanthaburi were: Mueang Chanthaburi, Khlung, Tha Mai, Pong Nam Ron, Makham, Laem Sing, Soi Dao, Kaeng Hang Maeo, Na Yai Am and Khao Khichakut subdistrict.



Population pyramid Chanthaburi
estimated population in 2020 (2019 – 2021)



Cancer care facilities

The total number of hospitals in Chanthaburi province was 14 hospitals composed of 11 community hospitals, 2 private hospitals and 1 provincial hospital. Cancer diagnostic services including radiological diagnosis equipment such as: X-ray, ultrasound, mammography, computed tomography scan and pathological investigation are available in Chanthaburi provincial hospital. Cancer surgery services, chemotherapy, radiotherapy and targeted therapy are provided in Chanthaburi provincial hospital. All hospitals in the province provide palliative care.

Registry procedures

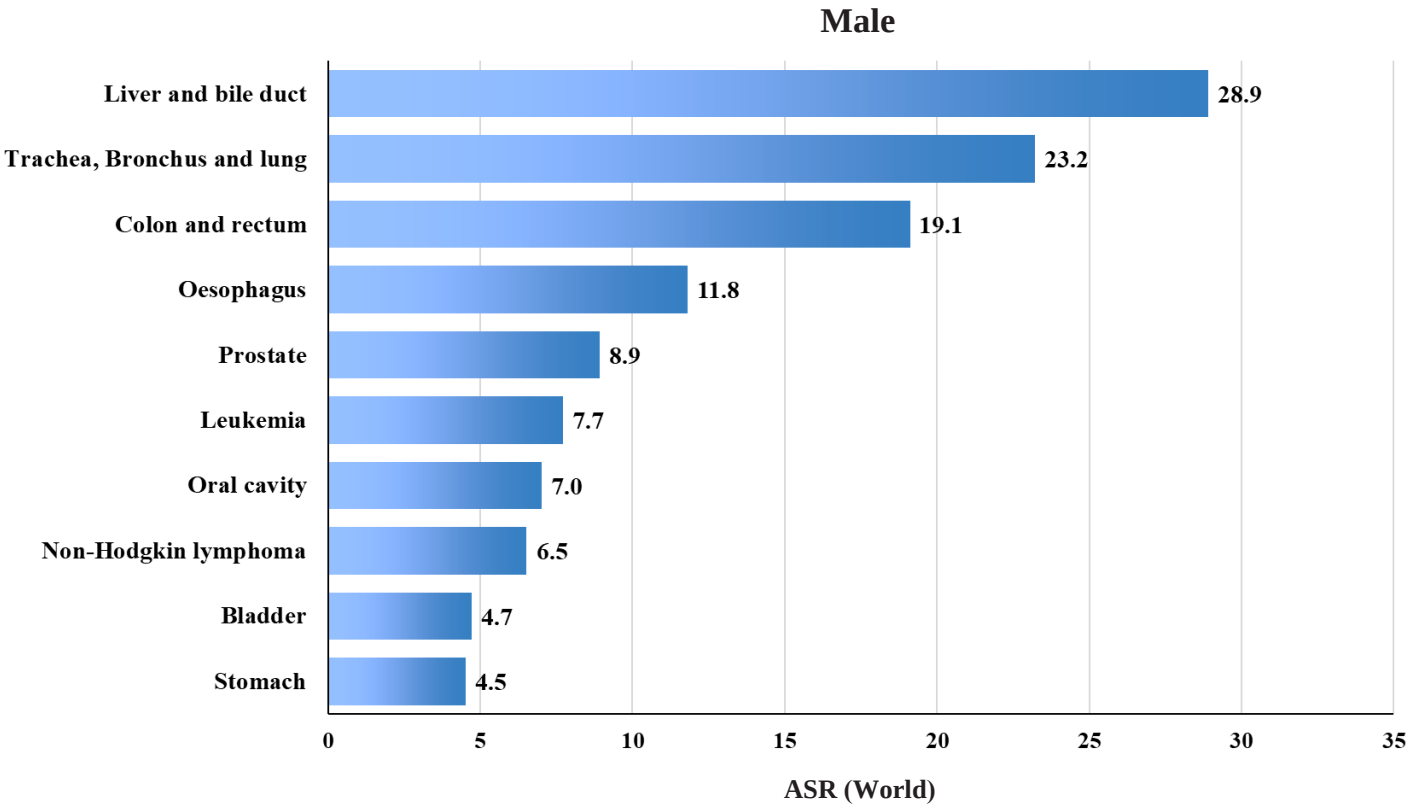
The data of Chanthaburi residents are extracted from the hospital-based cancer registry of Chon Buri Cancer Hospital and mixture of passively and actively collected data of all hospital in Chanthaburi. New cancer cases were collected from out and in patient departments, wards, surgery unit, cytology unit, hematology unit, medical record, pathological unit and autopsy service. The data information collected includes demographic details for each cancer patient that consists of: registry number, name, residential address, date of birth, age, sex, date of diagnosis, site of cancer, histology of cancer, staging, extension of disease, method of diagnosis, treatment, date of last contact and status of cancer patients (alive or dead). Multiple primary cases are checked by physicians using their original records and with any other physicians concerned. All cancer death certificates are matched with the incidence case records of the registry. Individual certified as having died of cancer are registered as "Death Certificate Only (DCO)" cases if no other information about the individual can be traced from the other sources.

The sources of information on cancer cases are mainly hospital and pathology laboratory records. Each completed case notification form is checked for duplication with computer software for Thai names before entering into the database programmed, CanReg5.

Summary of results

New cases registered in 2020, 694 were males and 662 were females, making 1,356 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 168.9 per 100,000, with liver cancer ranks first (ASR = 28.9) followed by lung (ASR = 23.2) and colon and rectum (ASR = 19.1). The ASR of all cancer sites in females was 145.8 per 100,000, three leading cancer sites being breast (ASR = 35.1), colon and rectum (ASR = 13.9) and cervix (ASR = 11.2).

Figure 3.14.1 Leading cancer in Chanthaburi (mean annual ASR 2019-2021)



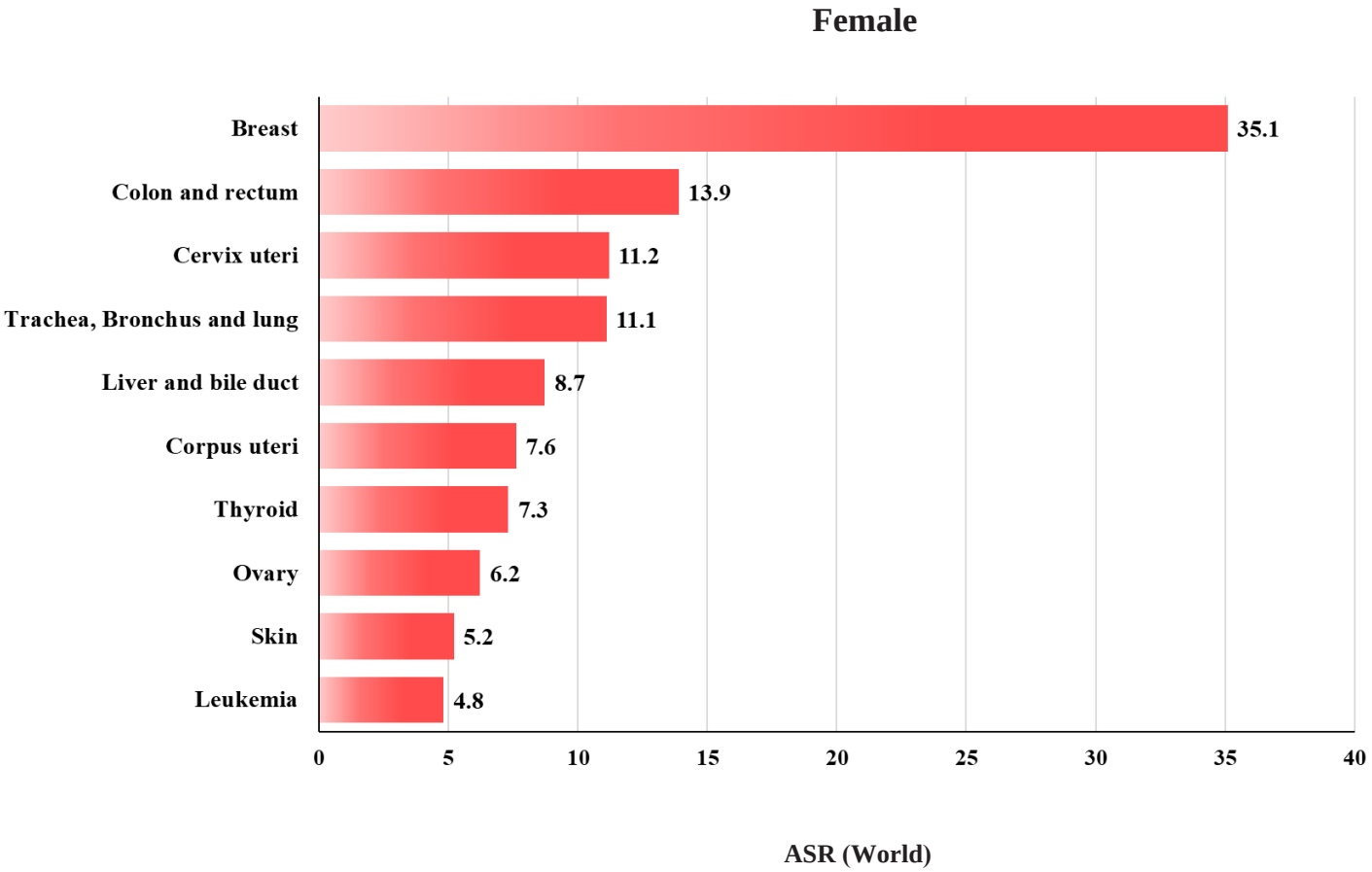


Table 3.14.1 Chanthaburi (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	4.4	3.0	0.4	0.2	C00	0.0	0.0
Tongue	16	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.2	2.9	8.5	10.2	11.8	15.8	18.2	21.9	17.9	6.1	4.0	C01-02	0.3	0.5
Mouth	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.8	6.8	13.6	6.1	17.5	11.9	3.1	2.0	C03-06	0.1	0.3
Salivary glands	3	0.0	0.0	0.0	0.0	2.1	0.0	0.0	1.6	0.0	1.4	2.9	0.0	2.3	6.1	0.0	3.0	1.1	0.8	C07-08	0.1	0.1
Tonsil	7	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	2.9	9.9	2.9	3.4	4.5	6.1	8.8	3.0	2.6	1.8	C09	0.1	0.2
Other oropharynx	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	1.5	0.0	9.0	3.0	0.0	6.0	1.5	1.0	C10	0.1	0.1
Nasopharynx	10	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.9	5.6	7.3	5.1	18.1	6.1	8.8	6.0	3.6	2.4	C11	0.2	0.3
Hypopharynx	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	1.4	2.8	7.3	10.1	18.1	33.4	8.8	20.8	5.5	3.5	C12-13	0.2	0.4
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C14	0.0	0.0
Oesophagus	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	7.1	22.5	39.4	55.7	40.7	66.9	57.0	41.7	18.7	11.8	C15	0.8	1.5
Stomach	19	0.0	0.0	0.0	0.0	0.0	4.4	0.0	1.6	0.0	11.3	10.2	13.5	9.0	12.2	21.9	56.5	7.2	4.5	C16	0.3	0.4
Small intestine	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	1.5	3.4	0.0	6.1	4.4	0.0	0.9	0.6	C17	0.0	0.1
Colon	50	0.0	0.0	0.0	0.0	2.1	2.2	0.0	4.8	7.1	15.5	17.5	16.9	52.0	76.0	74.6	125.0	18.7	11.9	C18	0.6	1.3
Rectum	29	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	1.4	5.6	16.0	22.0	31.7	48.6	52.6	44.6	10.9	6.9	C19-20	0.4	0.9
Anus	1	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.2	0.3	C21	0.0	0.0
Liver and bile duct	122	0.0	0.0	0.0	0.0	2.1	0.0	6.0	14.5	20.0	35.2	70.0	109.8	115.4	142.9	184.2	184.5	45.9	28.9	C22,C24	1.9	3.5
Gallbladder	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	2.3	0.0	8.8	8.9	0.9	0.5	C23	0.0	0.1
Pancreas	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	7.3	6.8	13.6	21.3	39.5	32.7	5.5	3.4	C25	0.2	0.5
Nose, sinuses etc.	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	4.5	3.0	0.0	3.0	0.6	0.4	C30-31	0.0	0.0
Larynx	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	5.8	13.5	18.1	27.4	26.3	23.8	5.6	3.6	C32	0.2	0.5
Trachea, Bronchus and lung	99	2.1	0.0	2.1	0.0	2.1	0.0	0.0	4.8	2.9	9.9	37.9	52.4	104.1	148.9	184.2	261.9	37.1	23.2	C33-34	1.1	2.8
Other thoracic organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.5	0.0	2.3	0.0	0.0	3.0	0.5	0.3	C37-38	0.0	0.0
Bone	2	0.0	1.9	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	1.7	4.5	0.0	0.0	0.0	0.6	0.6	C40-C41	0.1	0.1
Melanoma of skin	3	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	1.4	1.5	0.0	4.5	6.1	4.4	6.0	1.2	0.8	C43	0.0	0.1
Other skin	14	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	1.4	2.9	5.1	9.0	9.1	30.7	62.5	5.2	3.1	C44	0.1	0.3
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.1	0.1	C45	0.0	0.0
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C46	0.0	0.0
Connective tissue	3	0.0	0.0	0.0	0.0	2.1	2.2	2.0	0.0	1.4	0.0	1.5	0.0	0.0	0.0	4.4	6.0	1.0	0.8	C47,C49	0.0	0.1
Breast	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.5	0.3	C50	0.0	0.0
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51	0.0	0.0
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52	0.0	0.0
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53	0.0	0.0
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54	0.0	0.0
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55	0.0	0.0
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56	0.0	0.0
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57	0.0	0.0
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58	0.0	0.0
Penis	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.4	0.0	0.0	5.1	0.0	9.1	4.4	11.9	1.6	1.0	C60	0.0	0.1
Prostate	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	4.4	13.5	29.4	51.7	92.1	169.6	15.1	8.9	C61	0.3	1.0
Testis	3	4.2	0.0	0.0	4.3	0.0	0.0	4.0	1.6	1.4	1.4	1.5	0.0	0.0	0.0	0.0	0.0	1.2	1.5	C62	0.1	0.1
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.1	0.1	C63	0.0	0.0
Kidney	7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	2.9	1.7	11.3	9.1	21.9	8.9	2.6	1.9	C64	0.1	0.3
Renal pelvis	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	4.5	0.0	4.4	6.0	0.9	0.5	C65	0.0	0.1
Ureter	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	3.0	0.0	3.0	0.4	0.2	C66	0.0	0.0
Bladder	20	0.0	0.0	2.1	0.0	0.0	0.0	0.0	1.6	2.9	7.0	4.4	10.1	13.6	15.2	48.2	62.5	7.6	4.7	C67	0.2	0.5
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C68	0.0	0.0
Eye	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C69	0.0	0.0
Brain, nervous system	7	0.0	1.9	0.0	0.0	2.1	2.2	0.0	1.6	4.3	0.0	4.4	3.4	9.0	3.0	8.8	6.0	2.6	2.0	C70-72	0.1	0.2
Thyroid	7	0.0	0.0	2.1	0.0	0.0	2.2	0.0	1.6	4.3	0.0	4.4	1.7	9.0	6.1	8.8	6.0	2.5	1.8	C73	0.1	0.2
Adrenal gland	2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.3	0.0	4.4	0.0	0.7	1.0	C74	0.1	0.1
Other endocrine	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	2.3	0.0	0.0	3.0	0.4	0.2	C75	0.0	0.0
Hodgkin disease	1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	C81	0.0	0.0
Non-Hodgkin lymphoma	25	0.0	3.8	0.0	2.1	4.3	2.2	8.0	1.6	4.3	5.6	11.7	23.6	24.9	18.2	21.9	35.7	9.2	6.5	C82-85,C96	0.5	0.7
Multiple myeloma	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	1.4	0.0	1.7	6.8	15.2	8.8	20.8	2.5	1.6	C90	0.1	0.2
Lymphoid leukemia	5	4.2	3.8	2.1	2.1	2.1	2.2	0.0	0.0	0.0	2.8	0.0	1.7	0.0	9.1	0.0	3.0	1.9	2.2	C91	0.1	0.2
Myeloid leukemia	17	2.1	1.9	2.1	2.1	10.7	2.2	2.0	4.8	1.4	2.8	8.7	8.4	18.1	21.3	13.2	11.9	6.2	5.2	C92-94	0.3	0.5
Leukemia unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	3.0	0.0	6.0	0.5	0.3	C95	0.0	0.0
Myelodysplastic disease	17	0.0	0.0	0.0	0.0	0.0	2.2	2.0	1.6	0.0	2.8	7.3	10.1	11.3	18.2	17.5	59.5	6.4	3.9	D45-D47	0.2	0.4
Other and unspecified	30	0.0	0.0	0.0	0.0	0.0	4.4	0.0	3.2	2.9	5.6	10.2	27.0	15.8	45.6	57.0	65.5	11.2	7.1	O&U	0.3	0.9
All sites	**694**	**23.3**	**15.2**	**10.7**	**10.7**	**32.2**	**30.5**	**34.1**	**66.1**	**84.2**	**171.8**	**312.0**	**456.1**	**653.8**	**878.4**	**1,074.6**	**1,419.6**	**260.1**	**168.9**	**ALL**	**9.5**	**19.3**

Table 3.14.2 Chanthaburi (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	6.2	0.5	0.2	C00	0.0	0.0
Tongue	5	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	4.0	4.0	3.1	0.0	0.0	10.8	6.2	1.8	1.0	C01-02	0.1	0.1
Mouth	6	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	1.4	0.0	1.3	1.6	4.2	10.8	3.6	12.5	2.0	1.1	C03-06	0.1	0.1
Salivary glands	2	0.0	0.0	0.0	0.0	0.0	4.8	2.0	0.0	0.0	0.0	1.3	0.0	4.2	0.0	0.0	2.1	0.8	0.8	C07-08	0.1	0.1
Tonsil	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.2	0.1	C09	0.0	0.0
Other oropharynx	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.1	0.1	C10	0.0	0.0
Nasopharynx	4	0.0	2.0	0.0	0.0	2.2	0.0	0.0	3.0	2.7	0.0	5.4	1.6	0.0	5.4	0.0	0.0	1.5	1.2	C11	0.1	0.1
Hypopharynx	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C12-13	0.0	0.0
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C14	0.0	0.0
Oesophagus	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4	9.3	2.1	8.1	28.9	12.5	3.6	2.0	C15	0.1	0.3
Stomach	15	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	5.4	5.4	5.4	7.8	4.2	13.5	18.1	31.2	5.4	2.9	C16	0.2	0.3
Small intestine	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.6	0.0	5.4	7.2	0.0	0.7	0.4	C17	0.0	0.1
Colon	48	0.0	0.0	0.0	0.0	0.0	2.4	2.0	3.0	6.8	14.7	6.7	37.4	35.5	51.4	46.9	95.8	17.2	9.4	C18	0.5	1.0
Rectum	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.8	4.0	6.7	10.9	18.8	29.7	21.7	33.3	7.6	4.3	C19-20	0.3	0.5
Anus	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	3.6	2.1	0.4	0.2	C21	0.0	0.0
Liver and bile duct	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.1	8.0	14.7	26.5	37.6	67.6	46.9	58.3	15.1	8.7	C22,C24	0.5	1.1
Gallbladder	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	6.3	10.8	7.2	12.5	2.1	1.2	C23	0.1	0.1
Pancreas	16	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	2.7	0.0	1.3	6.2	16.7	16.2	25.3	41.7	5.8	3.1	C25	0.1	0.4
Nose, sinuses etc.	2	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	2.7	0.0	2.1	2.7	3.6	2.1	0.8	0.5	C30-31	0.0	0.1
Larynx	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.1	0.1	C32	0.0	0.0
Trachea, Bronchus and lung	58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	4.1	12.1	17.4	29.6	35.5	73.0	93.9	120.8	20.7	11.1	C33-34	0.5	1.3
Other thoracic organs	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	1.6	2.1	2.7	0.0	4.2	0.7	0.4	C37-38	0.0	0.0
Bone	1	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	4.2	0.5	0.3	C40-C41	0.0	0.0
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	3.6	2.1	0.6	0.5	C43	0.0	0.1
Other skin	21	0.0	0.0	0.0	2.2	2.2	11.9	0.0	0.0	1.4	4.0	0.0	14.0	4.2	18.9	43.3	43.8	7.4	4.7	C44	0.2	0.5
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C45	0.0	0.0
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46	0.0	0.0
Connective tissue	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	1.3	2.7	3.1	0.0	2.7	3.6	2.1	1.3	0.8	C47,C49	0.1	0.1
Breast	160	0.0	0.0	0.0	0.0	0.0	4.8	21.8	34.0	51.4	96.5	103.2	135.5	108.6	110.8	122.7	89.6	57.2	35.1	C50	2.8	3.9
Vulva	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.2	0.1	C51	0.0	0.0
Vagina	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	3.6	6.2	0.6	0.3	C52	0.0	0.0
Cervix uteri	48	0.0	0.0	0.0	0.0	0.0	9.5	29.7	19.2	18.9	24.1	21.4	28.0	23.0	21.6	10.8	47.9	17.0	11.2	C53	0.9	1.0
Corpus uteri	32	0.0	0.0	0.0	2.2	0.0	2.4	7.9	5.9	8.1	6.7	14.7	20.2	43.8	37.8	36.1	14.6	11.6	7.6	C54	0.6	0.9
Uterus unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.1	0.0	0.0	0.0	0.2	0.1	C55	0.0	0.0
Ovary	26	0.0	0.0	0.0	2.2	6.5	4.8	4.0	3.0	9.5	9.4	8.0	23.4	20.9	21.6	7.2	29.2	9.4	6.2	C56	0.5	0.6
Other female genital organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	2.7	0.0	0.0	0.2	0.2	C57	0.0	0.0
Placenta	1	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.5	0.4	C58	0.0	0.0
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60	0.0	0.0
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61	0.0	0.0
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62	0.0	0.0
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63	0.0	0.0
Kidney	4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	3.1	4.2	0.0	3.6	2.1	1.3	1.1	C64	0.1	0.1
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C65	0.0	0.0
Ureter	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	2.1	0.2	0.1	C66	0.0	0.0
Bladder	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.1	0.0	5.4	7.2	18.8	1.9	0.9	C67	0.0	0.1
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.1	0.1	C68	0.0	0.0
Eye	0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	C69	0.0	0.0
Brain, nervous system	7	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	4.0	4.0	0.0	6.3	13.5	0.0	10.4	2.6	1.7	C70-72	0.1	0.2
Thyroid	28	0.0	0.0	0.0	2.2	4.3	11.9	9.9	8.9	6.8	21.4	13.4	14.0	10.4	21.6	18.1	14.6	10.0	7.3	C73	0.5	0.7
Adrenal gland	0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	C74	0.0	0.0
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C75	0.0	0.0
Hodgkin disease	3	0.0	0.0	0.0	2.2	4.3	2.4	0.0	1.5	0.0	0.0	0.0	0.0	2.1	2.7	3.6	0.0	1.0	1.1	C81	0.1	0.1
Non-Hodgkin lymphoma	21	2.2	0.0	0.0	0.0	4.3	2.4	2.0	1.5	4.1	2.7	17.4	15.6	20.9	13.5	18.1	16.7	7.4	4.8	C82-85,C96	0.4	0.5
Multiple myeloma	8	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	1.4	2.7	0.0	6.2	4.2	10.8	14.4	10.4	2.7	1.6	C90	0.1	0.2
Lymphoid leukemia	4	8.7	4.1	0.0	2.2	2.2	0.0	0.0	0.0	0.0	0.0	1.3	0.0	2.1	2.7	3.6	2.1	1.5	2.2	C91	0.1	0.1
Myeloid leukemia	9	2.2	0.0	0.0	2.2	6.5	2.4	0.0	1.5	2.7	1.3	2.7	3.1	6.3	2.7	10.8	14.6	3.3	2.6	C92-94	0.2	0.2
Leukemia unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C95	0.0	0.0
Myelodysplastic disease	11	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.5	0.0	1.3	0.0	4.7	8.4	8.1	14.4	35.4	4.1	2.0	D45-D47	0.1	0.2
Other and unspecified	17	0.0	0.0	0.0	0.0	2.2	0.0	2.0	4.4	2.7	1.3	1.3	10.9	16.7	24.3	10.8	31.2	6.1	3.5	O&U	0.2	0.4
All sites	**662**	**21.6**	**8.2**	**0.0**	**15.1**	**36.8**	**64.3**	**97.0**	**99.0**	**152.7**	**233.2**	**269.4**	**436.1**	**453.0**	**632.4**	**657.0**	**843.8**	**236.8**	**145.8**	**ALL**	**9.4**	**15.9**

Table 3.14.3 Mean annual incidence, Chanthaburi, 2019-2021

Site	Male						Female						ICD-10
	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	
Lip	1	0.1	0.4	0.2	0.0	0.0	1	0.2	0.5	0.2	0.0	0.0	C00
Tongue	16	2.4	6.1	4.0	0.3	0.5	5	0.8	1.8	1.0	0.1	0.1	C01-02
Mouth	8	1.2	3.1	2.0	0.1	0.3	6	0.9	2.0	1.1	0.1	0.1	C03-06
Salivary glands	3	0.4	1.1	0.8	0.1	0.1	2	0.4	0.8	0.8	0.1	0.1	C07-08
Tonsil	7	1.0	2.6	1.8	0.1	0.2	1	0.1	0.2	0.1	0.0	0.0	C09
Other oropharynx	4	0.6	1.5	1.0	0.1	0.1	0	0.1	0.1	0.1	0.0	0.0	C10
Nasopharynx	10	1.4	3.6	2.4	0.2	0.3	4	0.7	1.5	1.2	0.1	0.1	C11
Hypopharynx	15	2.1	5.5	3.5	0.2	0.4	0	0.1	0.1	0.1	0.0	0.0	C12-13
Pharynx unspecified	0	0.0	0.1	0.1	0.0	0.0	0	0.1	0.0	0.0	0.0	0.0	C14
Oesophagus	50	7.2	18.7	11.8	0.8	1.5	10	1.5	3.6	2.0	0.1	0.3	C15
Stomach	19	2.8	7.2	4.5	0.3	0.4	15	2.3	5.4	2.9	0.2	0.3	C16
Small intestine	2	0.3	0.9	0.6	0.0	0.1	2	0.3	0.7	0.4	0.0	0.1	C17
Colon	50	7.2	18.7	11.9	0.6	1.3	48	7.2	17.2	9.4	0.5	1.0	C18
Rectum	29	4.2	10.9	6.9	0.4	0.9	21	3.2	7.6	4.3	0.3	0.5	C19-20
Anus	1	0.1	0.2	0.3	0.0	0.0	1	0.2	0.4	0.2	0.0	0.0	C21
Liver and bile duct	122	17.6	45.9	28.9	1.9	3.5	42	6.4	15.1	8.7	0.5	1.1	C22,C24
Gallbladder	2	0.3	0.9	0.5	0.0	0.1	6	0.9	2.1	1.2	0.1	0.1	C23
Pancreas	15	2.1	5.5	3.4	0.2	0.5	16	2.5	5.8	3.1	0.1	0.4	C25
Nose, sinuses etc.	2	0.2	0.6	0.4	0.0	0.0	2	0.4	0.8	0.5	0.0	0.1	C30-31
Larynx	15	2.2	5.6	3.6	0.2	0.5	0	0.1	0.1	0.1	0.0	0.0	C32
Trachea, Bronchus and lung	99	14.3	37.1	23.2	1.1	2.8	58	8.8	20.7	11.1	0.5	1.3	C33-34
Other thoracic organs	1	0.2	0.5	0.3	0.0	0.0	2	0.3	0.7	0.4	0.0	0.0	C37-38
Bone	2	0.2	0.6	0.6	0.1	0.1	1	0.2	0.5	0.3	0.0	0.0	C40-C41
Melanoma of skin	3	0.5	1.2	0.8	0.0	0.1	2	0.3	0.6	0.5	0.0	0.1	C43
Other skin	14	2.0	5.2	3.1	0.1	0.3	21	3.1	7.4	4.7	0.2	0.5	C44
Mesothelioma	0	0.0	0.1	0.1	0.0	0.0	0	0.1	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	0	0.0	0.1	0.1	0.0	0.0	0	0.1	0.0	0.0	0.0	0.0	C46
Connective tissue	3	0.4	1.0	0.8	0.0	0.1	4	0.6	1.3	0.8	0.1	0.1	C47,C49
Breast	1		0.5	0.3	0.0	0.0	160	24.2	57.2	35.1	2.8	3.9	C50
Vulva							1	0.1	0.2	0.1	0.0	0.0	C51
Vagina							2	0.3	0.6	0.3	0.0	0.0	C52
Cervix uteri							48	7.2	17.0	11.2	0.9	1.0	C53
Corpus uteri							32	4.9	11.6	7.6	0.6	0.9	C54
Uterus unspecified							1	0.1	0.2	0.1	0.0	0.0	C55
Ovary							26	4.0	9.4	6.2	0.5	0.6	C56
Other female genital organs							1	0.1	0.2	0.2	0.0	0.0	C57
Placenta							1	0.2	0.5	0.4	0.0	0.0	C58
Penis	4	0.6	1.6	1.0	0.0	0.1							C60
Prostate	40	5.8	15.1	8.9	0.3	1.0							C61
Testis	3	0.5	1.2	1.5	0.1	0.1							C62
Other male genital organs	0	0.0	0.1	0.1	0.0	0.0							C63
Kidney	7	1.0	2.6	1.9	0.1	0.3	4	0.6	1.3	1.1	0.1	0.1	C64
Renal pelvis	2	0.3	0.9	0.5	0.0	0.1	0	0.1	0.0	0.0	0.0	0.0	C65
Ureter	1	0.1	0.4	0.2	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C66
Bladder	20	2.9	7.6	4.7	0.2	0.5	5	0.8	1.9	0.9	0.0	0.1	C67
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C68
Eye	0	0.0	0.0	0.0	0.0	0.0	0	0.1	0.1	0.3	0.0	0.0	C69
Brain, nervous system	7	1.0	2.6	2.0	0.1	0.2	7	1.1	2.6	1.7	0.1	0.2	C70-72
Thyroid	7	1.0	2.5	1.8	0.1	0.2	28	4.2	10.0	7.3	0.5	0.7	C73
Adrenal gland	2	0.3	0.7	1.0	0.1	0.1	0	0.1	0.1	0.3	0.0	0.0	C74
Other endocrine	1	0.1	0.4	0.2	0.0	0.0	0	0.1	0.0	0.0	0.0	0.0	C75
Hodgkin disease	1	0.1	0.4	0.4	0.0	0.0	3	0.4	1.0	1.1	0.1	0.1	C81
Non-Hodgkin lymphoma	25	3.6	9.2	6.5	0.5	0.7	21	3.1	7.4	4.8	0.4	0.5	C82-85,C96
Multiple myeloma	7	1.0	2.5	1.6	0.1	0.2	8	1.2	2.7	1.6	0.1	0.2	C90
Lymphoid leukemia	5	0.7	1.9	2.2	0.1	0.2	4	0.7	1.5	2.2	0.1	0.1	C91
Myeloid leukemia	17	2.4	6.2	5.2	0.3	0.5	9	1.4	3.3	2.6	0.2	0.2	C92-94
Leukemia unspecified	1	0.2	0.5	0.3	0.0	0.0	0	0.1	0.0	0.0	0.0	0.0	C95
Myelodysplastic disease	17	2.5	6.4	3.9	0.2	0.4	11	1.7	4.1	2.0	0.1	0.2	D45-D47
Other and unspecified	30	4.3	11.2	7.1	0.3	0.9	17	2.6	6.1	3.5	0.2	0.4	O&U
All sites	**694**	**100.0**	**260.1**	**168.9**	**9.5**	**19.3**	**662**	**100.0**	**236.8**	**145.8**	**9.4**	**15.9**	**ALL**

Table 3.14.4 Percentage of morphologically verified and death certificate only cases, Chanthaburi

Site	Male			Female			ICD-10
	Cases 3 Year	%MV	%DCO	Cases 3 Year	%MV	%DCO	
Oral cavity	86	91.9	1.2	43	93.0	0.0	C00-C08
Oropharynx	34	97.1	0.0	3	100.0	0.0	C09-C10,C14
Nasopharynx	29	79.3	0.0	13	76.9	0.0	C11
Hypopharynx	44	95.5	0.0	1	100.0	0.0	C12-C13
Esophagus	150	90.0	0.0	30	76.7	3.3	C15
Stomach	58	87.9	0.0	45	82.2	2.2	C16
Small intestine	7	85.7	0.0	6	83.3	0.0	C17
Colon and rectum	239	90.0	0.4	211	90.5	0.0	C18-C21
Liver and bile duct	367	18.8	2.5	127	32.3	3.9	C22,C24
Gallbladder	7	42.9	14.3	18	27.8	0.0	C23
pancrease	44	20.5	2.3	49	36.7	2.0	C25
Nose,sinuses etc	5	80.0	0.0	7	57.1	0.0	C30-C31
Larynx	45	88.9	4.4	1	100.0	0.0	C32
Trachea, brochus and lung	297	64.6	3.7	174	65.5	3.4	C33-C34
Other thoracic organs	4	75.0	0.0	6	83.3	0.0	C37-C38
Bone	5	100.0	0.0	4	75.0	0.0	C40-C41
Melanoma of skin	10	100.0	0.0	5	100.0	0.0	C43
Other skin	42	97.6	0.0	62	95.2	0.0	C44
Mesothelioma	1	100.0	0.0	0	0.0	0.0	C45
Kaposi sarcoma	1	100.0	0.0	0	0.0	0.0	C46
Connective and soft tissue	8	100.0	0.0	11	100.0	0.0	C47,C49
Breast	4	100.0	0.0	480	92.5	0.2	C50
Vulva				2	50.0	0.0	C51
Vagina				5	100.0	0.0	C52
Cervix uteri				143	92.3	0.7	C53
Corpus uteri				97	95.9	0.0	C54
Uterus unspecified				2	100.0	0.0	C55
Ovary				79	74.7	1.3	C56
Other female genital organs				2	100.0	0.0	C57
Placenta				4	100.0	0.0	C58
Penis	13	84.6	0.0				C60
Prostate	121	86.0	1.7				C61
Testis	10	90.0	0.0				C62
Other male genital organs	1	100.0	0.0				C63
Kidney	21	71.4	4.8	11	90.9	0.0	C64
Renal pelvis	7	85.7	0.0	0	0.0	0.0	C65
Ureter	3	100.0	0.0	2	100.0	0.0	C66
Bladder	61	90.2	3.3	16	81.3	0.0	C67
Other urinary organs	0	0.0	0.0	1	100.0	0.0	C68
Eye	0	0.0	0.0	1	100.0	0.0	C69
Brain, nervous system	21	52.4	4.8	22	54.5	9.1	C70-C72
Thyroid	20	85.0	0.0	84	84.5	0.0	C73
Adrenal gland	6	66.7	16.7	1	100.0	0.0	C74
Other endocrine	3	33.3	0.0	0	0.0	0.0	C75
Hodgkin disease	3	100.0	0.0	8	100.0	0.0	C81
Non-Hodgkin lymphoma	74	100.0	0.0	62	98.4	0.0	C82-C85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	20	100.0	0.0	23	87.0	0.0	C90
Leukemia	69	97.1	0.0	41	97.6	0.0	C91-C95
Myelodysplastic	51	96.1	0.0	34	97.1	0.0	D45-D47
Other and unspecified	90	57.8	8.9	51	49.0	5.9	O&U
All sites	**2,081**	**70.9**	**2.0**	**1,987**	**81.3**	**1.1**	**All**
All sites without liver	**1,714**	**82.1**	**1.9**	**1,860**	**84.7**	**0.9**	**All**

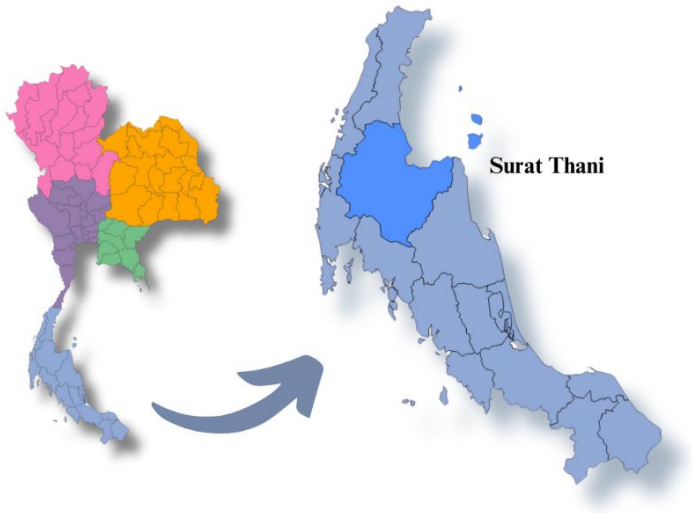
3.15 Surat Thani Cancer Registry

Registration area

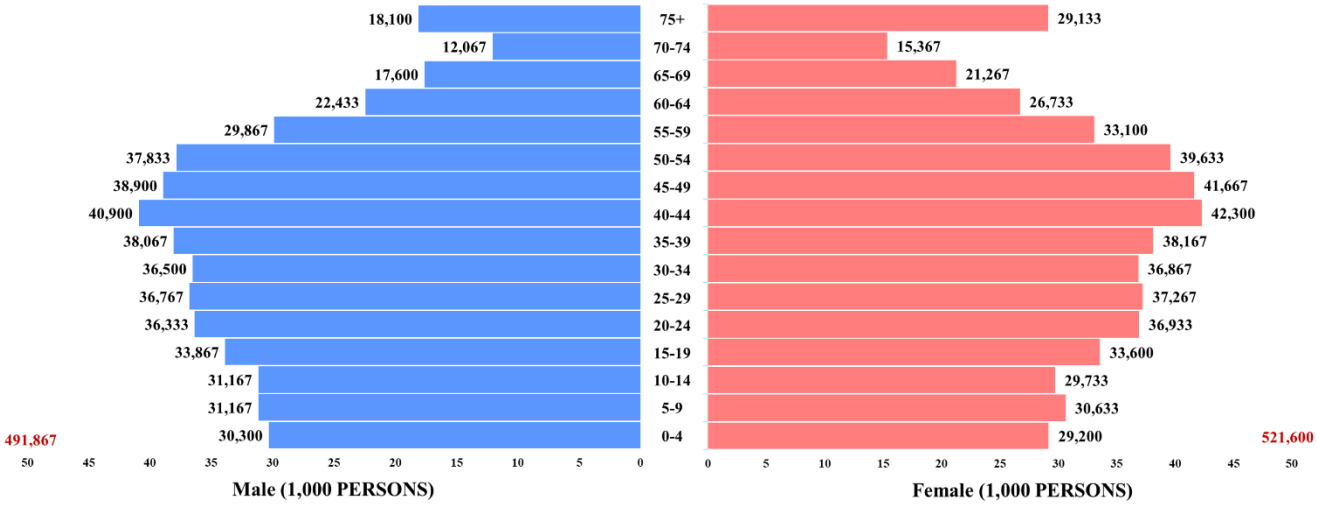
Surat Thani Province is located in the eastern part of the South. with a variety of terrain, both highlands mountain landscape including the coastal plains Coastal plains, plateaus and mountainous terrains cover area 40 % of the province's total area. To the north, it is bordered by Ranong, Chumphon and the Gulf of Thailand, the south is Krabi and Nakhon Si Thammarat, the east is Nakhon Si Thammarat and the Gulf of Thailand, and the west is Phang Nga.

Surat Thani has a tropical monsoon climate Like other parts of Southern Thailand, Surat Thani has only two seasons; wet and dry. Temperatures are fairly stable throughout the year, although the pre-monsoon months (March–May) are somewhat hotter. There is a short dry season from January to April, followed by the wet season that lasts from May to December. The heaviest rains occur in October and November.

Surat Thani Province is divided into 19 districts, 131 sub-districts, 1,074 villages. Most of the population is Buddhist. The main occupation is agriculture. It occupies approximately 45 percent of the total land area for agriculture. In addition, the occupation is livestock, fishery, industry, as well as mining.



Population pyramid Surat Thani
estimated population in 2020 (2019 – 2021)



Cancer care facilities

In Surat Thani Province Providing health care services in 20 community hospitals, one hospital in Surat Thani province, three private hospitals, one military hospital and one cancer hospital (Surat Thani Cancer Hospital). For cancer care, These hospitals have cancer diagnostic services. (including CT scan, Clinical Consultation and radiological, Pathological investigations), oncology surgery, chemotherapy, and targeted therapy are available in Surat Thani Cancer Hospital and Surat Thani Provincial Hospital. Radiation therapy is only in Surat Thani Cancer Hospital. There were one CT simulator, 6 workstations of treatment planning Two LINAC machines, one High Dose Rate machine and one treatment planning HDR for brachytherapy are provided in Surat Thani Cancer hospital. All hospitals in the province provide palliative care. However, some patients are referred to the National Cancer Institute. University Hospital in Songkhla Province (Songklanagarind Hospital) and Bangkok.

Registry procedures

The registry unit is located within Surat Thani Cancer Hospital. The Surat Thani registry was established in 2001. The registration uses passive methods by notification from 20 sources of data consists of cancer centers, general hospitals, community hospitals, private hospitals, university hospital. The registration uses passive methods by notification from 20 sources of data consists of cancer centers, general hospitals, community hospitals, private hospitals, university hospital and pathological laboratories.

Data collection consists of: registry number, name, residential address, date of birth, age, sex, date of diagnosis, site of cancer, histology of cancer, staging, extension of disease, method of diagnosis, treatment, date of last contact and vital status of cancer patients. The primary site and histology were coded according to ICD-O 3rd edition (*Fritz et al*., 2013). Second primary cancer was also registered by multiple primary rule (IARC, 2004). Death certificates were obtained from Bureau of Policy and Strategy, Ministry of Public Health. The follow-up of all registered cases were carried out by passive methods with linking database of National Health Security office.

The completed data forms were checked manually and entered into the database file in a personal computer at Cancer Registry Unit of Surat Thani Cancer Hospital. CanReg5 software was using input, store, check and analyze cancer registry data. IARCTools program was using validate data and quality control.

Summary of results

New cases registered in 2020, 843 were males and 923 were females, making 1,766 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 127.7 per 100,000, with lung cancer ranks first (ASR = 20.4) followed by colon and rectum (ASR = 18.60) and liver and bile duct (ASR = 12.9). The ASR of all cancer sites in females was 122.1 per 100,000, the three leading cancer sites being breast (ASR = 36.2), colon and rectum (ASR = 13.6) and Thyroid (ASR = 10.9).

Figure 3.15.1 Leading cancer in Surat Thani (mean annual ASR 2019-2021)

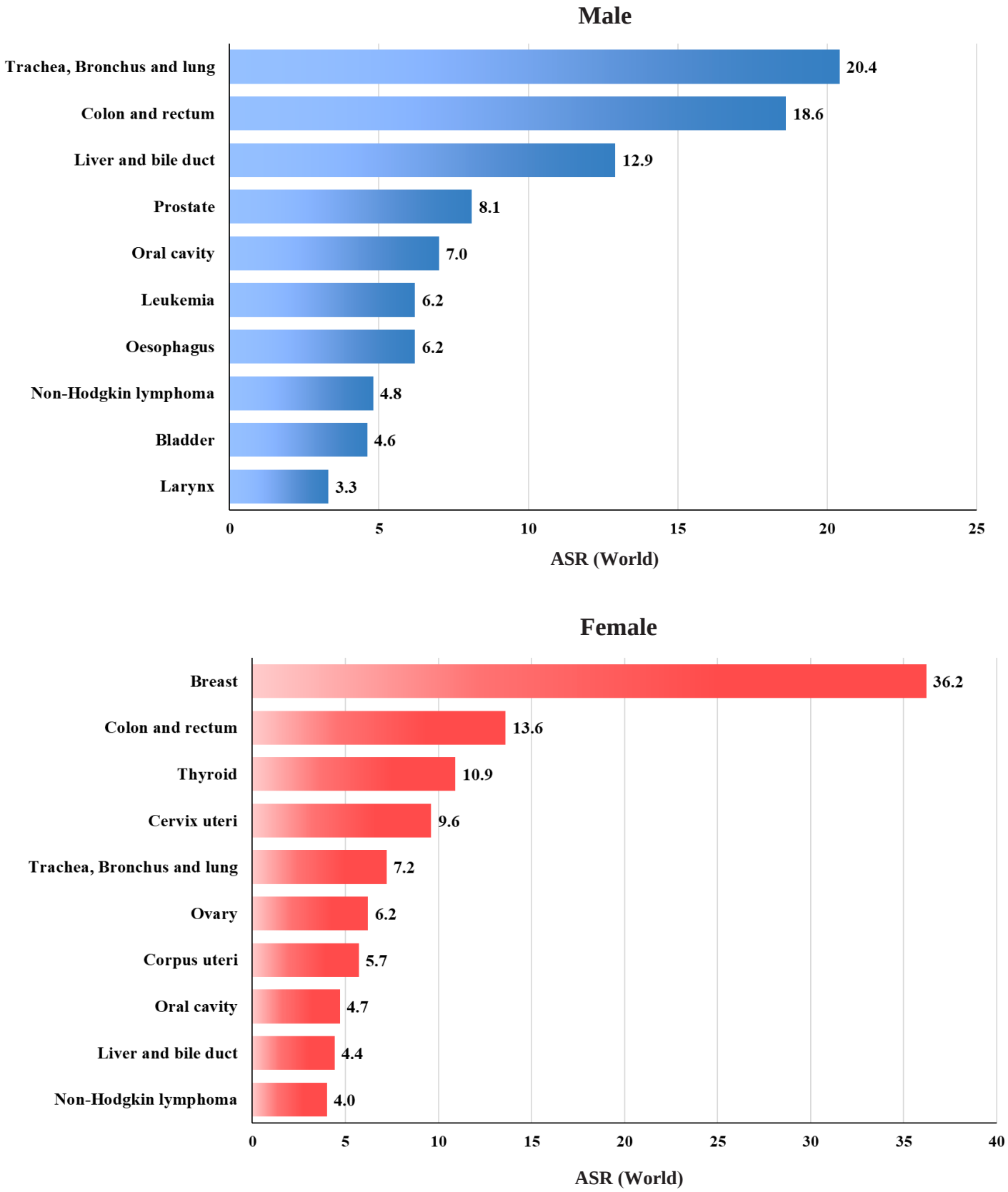


Table 3.15.1 Surat Thani (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	1.5	1.9	0.0	3.7	0.3	0.2	C00	0.0	0.0
Tongue	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.3	2.6	6.2	19.0	26.7	22.7	22.1	20.3	5.5	4.1	C01-02	0.3	0.5
Mouth	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.6	8.8	10.0	5.9	11.4	16.6	20.3	3.4	2.4	C03-06	0.1	0.3
Salivary glands	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	3.3	0.0	0.0	0.0	5.5	0.5	0.3	C07-08	0.0	0.0
Tonsil	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.8	1.7	9.7	10.0	7.4	3.8	8.3	11.0	2.7	1.9	C09	0.2	0.2
Other oropharynx	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.2	8.9	1.9	2.8	7.4	1.2	0.9	C10	0.1	0.1
Nasopharynx	14	0.0	0.0	0.0	3.0	0.9	0.0	3.7	0.9	3.3	6.9	6.2	5.6	7.4	3.8	0.0	5.5	2.9	2.3	C11	0.2	0.2
Hypopharynx	15	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.9	1.6	0.9	3.5	10.0	13.4	17.0	8.3	12.9	3.1	2.3	C12-13	0.2	0.3
Pharynx unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	1.8	0.1	0.1	C14	0.0	0.0
Oesophagus	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6	7.7	15.0	20.1	32.7	34.1	49.7	36.8	8.5	6.2	C15	0.4	0.8
Stomach	16	0.0	0.0	0.0	0.0	0.9	0.0	0.9	0.9	1.6	5.1	7.9	8.9	7.4	5.7	11.0	14.7	3.3	2.3	C16	0.2	0.3
Small intestine	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	1.1	3.0	5.7	0.0	5.5	0.7	0.5	C17	0.0	0.1
Colon	69	0.0	0.0	0.0	0.0	0.9	1.8	6.4	4.4	9.0	7.7	15.9	24.6	35.7	53.0	91.2	86.6	14.0	10.2	C18	0.5	1.3
Rectum	54	0.0	0.0	0.0	0.0	0.0	0.9	1.8	1.8	4.9	8.6	14.1	21.2	46.1	39.8	66.3	57.1	11.0	8.2	C19-20	0.5	1.0
Anus	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	1.5	1.9	0.0	1.8	0.3	0.2	C21	0.0	0.0
Liver and bile duct	85	0.0	0.0	0.0	0.0	0.0	0.9	4.6	2.6	8.1	24.0	24.7	41.3	56.5	79.5	82.9	62.6	17.3	12.9	C22,C24	0.8	1.6
Gallbladder	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	2.8	3.7	0.3	0.2	C23	0.0	0.0
Pancreas	10	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.9	2.4	2.6	2.6	5.6	4.5	9.5	2.8	7.4	2.0	1.4	C25	0.1	0.2
Nose, sinuses etc.	3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.8	0.9	0.9	1.1	0.0	5.7	0.0	3.7	0.7	0.5	C30-31	0.0	0.1
Larynx	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.9	8.8	8.9	10.4	18.9	35.9	36.8	4.7	3.3	C32	0.1	0.4
Trachea, Bronchus and lung	138	0.0	0.0	0.0	0.0	0.0	0.9	1.8	5.3	10.6	22.3	32.6	75.9	111.4	113.6	105.0	163.9	28.1	20.4	C33-34	1.3	2.4
Other thoracic organs	6	0.0	0.0	0.0	4.9	1.8	0.9	0.9	0.0	0.0	0.9	4.4	0.0	1.5	0.0	0.0	5.5	1.3	1.2	C37-38	0.1	0.1
Bone	5	0.0	1.1	1.1	3.0	0.9	1.8	0.9	0.0	0.0	0.9	1.8	0.0	1.5	0.0	0.0	3.7	1.0	1.0	C40-C41	0.1	0.1
Melanoma of skin	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.9	0.0	1.1	1.5	3.8	0.0	3.7	0.6	0.4	C43	0.0	0.0
Other skin	17	0.0	0.0	1.1	0.0	0.0	0.0	0.9	1.8	2.4	2.6	3.5	10.0	13.4	5.7	5.5	27.6	3.5	2.5	C44	0.2	0.2
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C45	0.0	0.0
Kaposi's sarcoma	1	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C46	0.0	0.0
Connective tissue	10	1.1	0.0	0.0	0.0	0.0	0.9	1.8	1.8	0.8	2.6	1.8	3.3	4.5	7.6	2.8	11.0	2.0	1.5	C47,C49	0.1	0.1
Breast	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	2.2	4.5	0.0	2.8	3.7	0.7	0.5	C50	0.0	0.1
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51	0.0	0.0
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53	0.0	0.0
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54	0.0	0.0
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55	0.0	0.0
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56	0.0	0.0
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57	0.0	0.0
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58	0.0	0.0
Penis	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.7	1.8	1.1	8.9	5.7	8.3	7.4	1.6	1.2	C60	0.1	0.1
Prostate	56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	7.8	32.7	70.1	91.2	123.4	11.5	8.1	C61	0.2	1.0
Testis	5	0.0	0.0	0.0	1.0	0.0	0.0	2.7	2.6	0.0	2.6	1.8	1.1	0.0	1.9	0.0	3.7	1.1	0.8	C62	0.1	0.1
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.1	0.0	C63	0.0	0.0
Kidney	12	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	4.1	2.6	2.6	4.5	8.9	15.2	8.3	7.4	2.5	1.9	C64	0.1	0.2
Renal pelvis	2	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.9	0.0	1.1	0.0	0.0	2.8	1.8	0.3	0.2	C65	0.0	0.0
Ureter	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.1	0.0	C66	0.0	0.0
Bladder	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.3	5.3	5.6	20.8	28.4	41.4	60.8	6.4	4.6	C67	0.2	0.5
Eye	2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	5.5	1.8	0.4	0.5	C69	0.0	0.0
Brain, nervous system	9	1.1	2.1	1.1	0.0	0.9	0.0	1.8	1.8	2.4	4.3	1.8	1.1	4.5	5.7	0.0	1.8	1.8	1.7	C70-72	0.1	0.1
Thyroid	16	0.0	0.0	0.0	1.0	3.7	2.7	2.7	0.9	1.6	6.0	6.2	1.1	4.5	9.5	11.0	14.7	3.3	2.6	C73	0.2	0.3
Adrenal gland	1	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.9	0.0	0.0	0.3	0.3	C74	0.0	0.0
Hodgkin disease	3	0.0	1.1	1.1	2.0	0.0	1.8	0.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	C81	0.0	0.0
Non-Hodgkin lymphoma	30	0.0	2.1	0.0	1.0	0.9	2.7	2.7	2.6	4.1	7.7	6.2	10.0	13.4	28.4	22.1	29.5	6.2	4.8	C82-85,C96	0.3	0.5
Multiple myeloma	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.7	2.6	8.9	8.9	1.9	16.6	18.4	2.5	1.8	C90	0.1	0.2
Lymphoid leukemia	9	3.3	3.2	2.1	3.0	0.9	0.0	0.0	0.9	1.6	0.9	2.6	2.2	3.0	5.7	0.0	1.8	1.8	2.0	C91	0.1	0.1
Myeloid leukemia	15	1.1	1.1	1.1	1.0	0.9	0.0	3.7	3.5	0.0	3.4	0.9	8.9	7.4	9.5	13.8	5.5	3.0	2.5	C92-94	0.2	0.3
Leukemia unspecified	10	2.2	0.0	0.0	1.0	0.0	0.9	1.8	2.6	2.4	3.4	1.8	1.1	0.0	3.8	5.5	14.7	2.1	1.7	C95	0.1	0.1
Myelodysplastic disease	1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.1	0.1	D45-D47	0.0	0.0
Other and unspecified	29	0.0	0.0	1.1	0.0	1.8	0.9	2.7	1.8	4.1	7.7	12.3	8.9	10.4	20.8	27.6	23.9	5.8	4.3	O&U	0.3	0.5
All sites	**843**	**11.0**	**12.8**	**8.6**	**20.7**	**14.7**	**19.9**	**46.6**	**42.9**	**79.1**	**153.4**	**222.9**	**350.4**	**530.5**	**655.3**	**773.5**	**944.8**	**171.3**	**127.7**	**ALL**	**7.6**	**14.7**

Table 3.15.2 Surat Thani (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.8	0.0	0.0	0.0	1.2	4.7	6.5	10.3	1.2	0.6	C00	0.0	0.1
Tongue	16	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7	4.7	2.4	3.4	9.1	6.2	6.3	4.3	12.6	3.0	1.9	C01-02	0.1	0.2
Mouth	15	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.8	1.6	1.7	7.0	8.7	6.3	23.9	11.4	2.9	1.8	C03-06	0.1	0.3
Salivary glands	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	3.0	0.0	3.1	2.2	2.3	0.6	0.4	C07-08	0.0	0.0
Tonsil	5	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.8	0.0	0.0	2.5	4.7	6.5	4.6	0.9	0.6	C09	0.0	0.1
Other oropharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.6	0.0	1.1	0.2	0.1	C10	0.0	0.0
Nasopharynx	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.4	3.2	0.8	0.0	0.0	3.1	4.3	1.1	0.9	0.6	C11	0.0	0.1
Hypopharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	3.1	0.0	1.1	0.3	0.2	C12-13	0.0	0.0
Pharynx unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.2	0.1	C14	0.0	0.0
Oesophagus	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	1.7	2.0	1.2	4.7	2.2	4.6	1.0	0.6	C15	0.0	0.1
Stomach	12	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.8	1.6	3.4	4.0	5.0	9.4	4.3	13.7	2.4	1.4	C16	0.1	0.2
Small intestine	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7	2.0	0.0	1.6	0.0	5.7	0.7	0.4	C17	0.0	0.0
Colon	67	0.0	0.0	0.0	2.0	0.9	0.9	3.6	6.1	7.9	12.0	10.1	23.2	44.9	45.5	41.2	46.9	12.8	8.5	C18	0.6	1.0
Rectum	38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.9	5.6	12.6	18.1	27.4	23.5	34.7	17.2	7.3	4.9	C19-20	0.3	0.6
Anus	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	1.2	3.1	0.0	1.1	0.3	0.2	C21	0.0	0.0
Liver and bile duct	39	0.0	0.0	0.0	1.0	0.0	0.0	0.9	2.6	2.4	1.6	6.7	9.1	21.2	23.5	28.2	52.6	7.5	4.4	C22,C24	0.2	0.5
Gallbladder	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.0	0.0	1.6	4.3	0.0	0.3	0.2	C23	0.0	0.0
Pancreas	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0	3.7	6.3	4.3	4.6	1.0	0.6	C25	0.0	0.1
Nose, sinuses etc.	3	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.8	0.8	2.5	0.0	0.0	1.6	0.0	3.4	0.6	0.4	C30-31	0.0	0.0
Larynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.1	0.1	C32	0.0	0.0
Trachea, Bronchus and lung	58	0.0	0.0	0.0	0.0	0.0	0.9	3.6	3.5	5.5	6.4	14.3	21.1	33.7	42.3	45.6	43.5	11.2	7.2	C33-34	0.4	0.9
Other thoracic organs	4	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	1.6	0.8	1.0	2.5	3.1	0.0	2.3	0.8	0.5	C37-38	0.0	0.1
Bone	3	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.9	0.0	0.0	0.0	0.0	1.2	3.1	0.0	3.4	0.6	0.4	C40-C41	0.0	0.0
Melanoma of skin	5	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.8	2.0	1.2	3.1	10.8	2.3	0.9	0.6	C43	0.0	0.1
Other skin	18	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.9	0.8	0.8	3.4	5.0	2.5	6.3	28.2	25.2	3.5	2.0	C44	0.1	0.2
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C45	0.0	0.0
Kaposi's sarcoma	0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C46	0.0	0.0
Connective tissue	9	0.0	0.0	0.0	1.0	0.0	1.8	2.7	2.6	2.4	1.6	0.8	0.0	2.5	1.6	6.5	6.9	1.7	1.2	C47,C49	0.1	0.1
Breast	268	0.0	0.0	0.0	0.0	0.0	4.5	25.3	41.0	83.5	108.8	121.1	117.8	98.5	90.9	104.1	42.3	51.4	36.2	C50	3.0	4.0
Vulva	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.0	1.2	1.6	2.2	4.6	0.6	0.4	C51	0.0	0.0
Cervix uteri	69	0.0	0.0	0.0	0.0	1.8	3.6	13.6	15.7	18.1	25.6	20.2	31.2	38.7	21.9	6.5	11.4	13.2	9.6	C53	0.8	1.0
Corpus uteri	42	0.0	0.0	0.0	0.0	0.9	0.9	5.4	5.2	3.9	11.2	11.8	20.1	27.4	26.6	21.7	12.6	8.1	5.7	C54	0.4	0.7
Uterus unspecified	3	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.9	1.6	0.8	0.8	1.0	1.2	0.0	2.2	1.1	0.6	0.5	C55	0.0	0.0
Ovary	42	0.0	0.0	3.4	4.0	0.0	3.6	7.2	4.4	9.5	14.4	11.8	20.1	13.7	20.4	21.7	5.7	8.1	6.2	C56	0.5	0.7
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	C57	0.0	0.0
Placenta	1	0.0	0.0	0.0	1.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	C58	0.0	0.0
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60	0.0	0.0
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61	0.0	0.0
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62	0.0	0.0
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63	0.0	0.0
Kidney	5	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	4.0	8.7	0.0	0.0	4.6	1.0	0.7	C64	0.1	0.1
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.1	0.0	C65	0.0	0.0
Ureter	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C66	0.0	0.0
Bladder	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.1	8.7	10.3	1.0	0.5	C67	0.0	0.1
Eye	1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.2	0.3	C69	0.0	0.0
Brain, nervous system	7	2.3	0.0	0.0	0.0	0.9	0.9	0.9	0.0	2.4	0.8	3.4	2.0	3.7	0.0	4.3	0.0	1.3	1.1	C70-72	0.1	0.1
Thyroid	72	0.0	0.0	2.2	3.0	9.0	12.5	21.7	15.7	18.1	24.8	19.3	30.2	17.5	21.9	6.5	9.2	13.9	10.9	C73	0.9	1.0
Adrenal gland	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.1	0.0	C74	0.0	0.0
Hodgkin disease	2	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.8	0.0	0.8	0.0	0.0	0.0	2.2	2.3	0.4	0.3	C81	0.0	0.0
Non-Hodgkin lymphoma	32	0.0	0.0	1.1	0.0	0.9	1.8	0.0	3.5	3.9	3.2	7.6	12.1	10.0	29.8	23.9	22.9	6.1	4.0	C82-85,C96	0.2	0.5
Multiple myeloma	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.0	11.2	6.3	4.3	3.4	1.4	1.0	C90	0.1	0.1
Lymphoid leukemia	3	2.3	0.0	1.1	0.0	0.0	0.9	0.0	0.9	0.0	0.8	0.0	1.0	1.2	1.6	0.0	1.1	0.6	0.7	C91	0.0	0.0
Myeloid leukemia	9	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.9	0.0	1.6	5.0	2.0	6.2	1.6	10.8	5.7	1.8	1.2	C92-94	0.1	0.1
Leukemia unspecified	4	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.0	2.5	3.1	0.0	2.3	0.7	0.5	C95	0.0	0.1
Myelodysplastic disease	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D45-D47	0.0	0.0
Other and unspecified	15	0.0	0.0	1.1	0.0	0.0	0.9	2.7	0.9	2.4	1.6	3.4	4.0	6.2	9.4	10.8	12.6	2.9	2.0	O&U	0.1	0.2
All sites	**923**	**5.7**	**1.1**	**11.2**	**13.9**	**17.1**	**38.5**	**94.0**	**113.5**	**177.3**	**240.0**	**275.0**	**363.5**	**421.4**	**451.4**	**488.1**	**433.6**	**177.0**	**122.1**	**ALL**	**8.9**	**13.6**

Table 3.15.3 Mean annual incidence, Surat Thani, 2019-2021

Site	Male						Female						ICD-10
	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74	
Lip	2	0.2	0.3	0.2	0.0	0.0	6	0.7	1.2	0.6	0.0	0.1	C00
Tongue	27	3.2	5.5	4.1	0.3	0.5	16	1.7	3.0	1.9	0.1	0.2	C01-02
Mouth	17	2.0	3.4	2.4	0.1	0.3	15	1.6	2.9	1.8	0.1	0.3	C03-06
Salivary glands	2	0.3	0.5	0.3	0.0	0.0	3	0.3	0.6	0.4	0.0	0.0	C07-08
Tonsil	13	1.6	2.7	1.9	0.2	0.2	5	0.5	0.9	0.6	0.0	0.1	C09
Other oropharynx	6	0.7	1.2	0.9	0.1	0.1	1	0.1	0.2	0.1	0.0	0.0	C10
Nasopharynx	14	1.7	2.9	2.3	0.2	0.2	5	0.5	0.9	0.6	0.0	0.1	C11
Hypopharynx	15	1.8	3.1	2.3	0.2	0.3	1	0.1	0.3	0.2	0.0	0.0	C12-13
Pharynx unspecified	1	0.1	0.1	0.1	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C14
Oesophagus	42	4.9	8.5	6.2	0.4	0.8	5	0.6	1.0	0.6	0.0	0.1	C15
Stomach	16	1.9	3.3	2.3	0.2	0.3	12	1.3	2.4	1.4	0.1	0.2	C16
Small intestine	3	0.4	0.7	0.5	0.0	0.1	4	0.4	0.7	0.4	0.0	0.0	C17
Colon	69	8.2	14.0	10.2	0.5	1.3	67	7.2	12.8	8.5	0.6	1.0	C18
Rectum	54	6.4	11.0	8.2	0.5	1.0	38	4.2	7.3	4.9	0.3	0.6	C19-20
Anus	1	0.2	0.3	0.2	0.0	0.0	2	0.2	0.3	0.2	0.0	0.0	C21
Liver and bile duct	85	10.1	17.3	12.9	0.8	1.6	39	4.3	7.5	4.4	0.2	0.5	C22,C24
Gallbladder	1	0.2	0.3	0.2	0.0	0.0	2	0.2	0.3	0.2	0.0	0.0	C23
Pancreas	10	1.1	2.0	1.4	0.1	0.2	5	0.6	1.0	0.6	0.0	0.1	C25
Nose, sinuses etc.	3	0.4	0.7	0.5	0.0	0.1	3	0.4	0.6	0.4	0.0	0.0	C30-31
Larynx	23	2.8	4.7	3.3	0.1	0.4	1	0.1	0.1	0.1	0.0	0.0	C32
Trachea, Bronchus and lung	138	16.4	28.1	20.4	1.3	2.4	58	6.3	11.2	7.2	0.4	0.9	C33-34
Other thoracic organs	6	0.8	1.3	1.2	0.1	0.1	4	0.4	0.8	0.5	0.0	0.1	C37-38
Bone	5	0.6	1.0	1.0	0.1	0.1	3	0.3	0.6	0.4	0.0	0.0	C40-C41
Melanoma of skin	3	0.4	0.6	0.4	0.0	0.0	5	0.5	0.9	0.6	0.0	0.1	C43
Other skin	17	2.1	3.5	2.5	0.2	0.2	18	2.0	3.5	2.0	0.1	0.2	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.1	0.0	0.0	C45
Kaposi's sarcoma	1	0.1	0.1	0.1	0.0	0.0	0	0.0	0.1	0.1	0.0	0.0	C46
Connective tissue	10	1.1	2.0	1.5	0.1	0.1	9	1.0	1.7	1.2	0.1	0.1	C47,C49
Breast	3	0.4	0.7	0.5	0.0	0.1	268	29.1	51.4	36.2	3.0	4.0	C50
Vulva							3	0.4	0.6	0.4	0.0	0.0	C51
Cervix uteri							69	7.5	13.2	9.6	0.8	1.0	C53
Corpus uteri							42	4.6	8.1	5.7	0.4	0.7	C54
Uterus unspecified							3	0.4	0.6	0.5	0.0	0.0	C55
Ovary							42	4.6	8.1	6.2	0.5	0.7	C56
Other female genital organs							0	0.0	0.1	0.0	0.0	0.0	C57
Placenta							1	0.1	0.1	0.2	0.0	0.0	C58
Penis	8	0.9	1.6	1.2	0.1	0.1							C60
Prostate	56	6.7	11.5	8.1	0.2	1.0							C61
Testis	5	0.6	1.1	0.8	0.1	0.1							C62
Other male genital organs	0	0.0	0.1	0.0	0.0	0.0							C63
Kidney	12	1.5	2.5	1.9	0.1	0.2	5	0.6	1.0	0.7	0.1	0.1	C64
Renal pelvis	2	0.2	0.3	0.2	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C65
Ureter	0	0.0	0.1	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C66
Bladder	32	3.8	6.4	4.6	0.2	0.5	5	0.6	1.0	0.5	0.0	0.1	C67
Eye	2	0.2	0.4	0.5	0.0	0.0	1	0.1	0.2	0.3	0.0	0.0	C69
Brain, nervous system	9	1.1	1.8	1.7	0.1	0.1	7	0.7	1.3	1.1	0.1	0.1	C70-72
Thyroid	16	1.9	3.3	2.6	0.2	0.3	72	7.8	13.9	10.9	0.9	1.0	C73
Adrenal gland	1	0.2	0.3	0.3	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C74
Hodgkin disease	3	0.3	0.5	0.6	0.0	0.0	2	0.3	0.4	0.3	0.0	0.0	C81
Non-Hodgkin lymphoma	30	3.6	6.2	4.8	0.3	0.5	32	3.5	6.1	4.0	0.2	0.5	C82-85,C96
Multiple myeloma	12	1.5	2.5	1.8	0.1	0.2	7	0.8	1.4	1.0	0.1	0.1	C90
Lymphoid leukemia	9	1.1	1.8	2.0	0.1	0.1	3	0.4	0.6	0.7	0.0	0.0	C91
Myeloid leukemia	15	1.7	3.0	2.5	0.2	0.3	9	1.0	1.8	1.2	0.1	0.1	C92-94
Leukemia unspecified	10	1.2	2.1	1.7	0.1	0.1	4	0.4	0.7	0.5	0.0	0.1	C95
Myelodysplastic disease	1	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	D45-D47
Other and unspecified	29	3.4	5.8	4.3	0.3	0.5	15	1.7	2.9	2.0	0.1	0.2	O&U
All sites	**843**	**100.0**	**171.3**	**127.7**	**7.6**	**14.7**	**923**	**100.0**	**177**	**122.1**	**8.9**	**13.6**	**ALL**

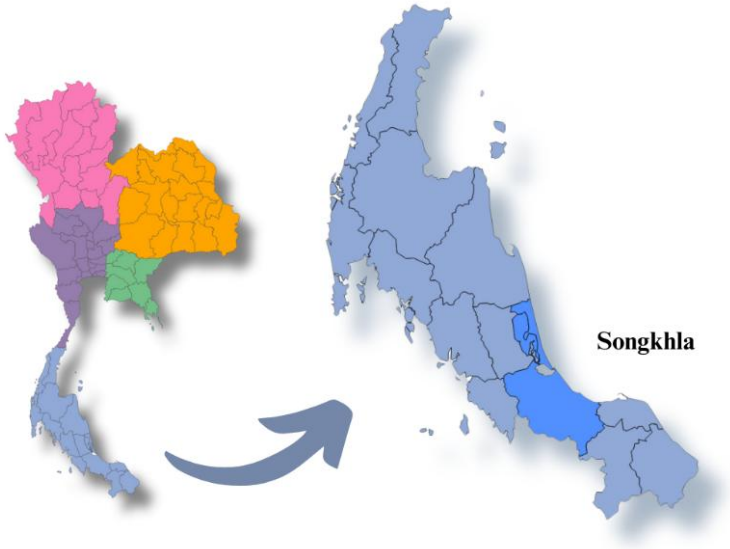
Table 3.15.4 Percentage of morphologically verified and death certificate only cases, Surat Thani

Site	Male			Female			ICD-10
	Cases 3 Year	%MV	%DCO	Cases 3 Year	%MV	%DCO	
Oral cavity	143	93.0	4.2	119	95.0	1.7	C00-C08
Oropharynx	60	96.7	0.0	20	85.0	10.0	C09-C10,C14
Nasopharynx	43	86.0	9.3	14	92.9	0.0	C11
Hypopharynx	46	97.8	2.2	4	100.0	0.0	C12-C13
Esophagus	125	92.0	5.6	16	87.5	6.3	C15
Stomach	48	95.8	4.2	37	91.9	5.4	C16
Small intestine	10	90.0	10.0	11	100.0	0.0	C17
Colon and rectum	374	96.0	0.8	320	95.0	0.9	C18-C21
Liver and bile duct	256	29.7	12.9	118	35.6	10.2	C22,C24
Gallbladder	4	50.0	50.0	5	80.0	20.0	C23
pancrease	29	82.8	6.9	16	75.0	25.0	C25
Nose,sinuses etc	10	100.0	0.0	10	100.0	0.0	C30-C31
Larynx	70	92.9	4.3	2	100.0	0.0	C32
Trachea, brochus and lung	415	87.5	7.5	175	92.6	4.6	C33-C34
Other thoracic organs	19	100.0	0.0	12	100.0	0.0	C37-C38
Bone	15	73.3	13.3	9	33.3	55.6	C40-C41
Melanoma of skin	9	100.0	0.0	14	100.0	0.0	C43
Other skin	52	98.1	0.0	55	100.0	0.0	C44
Mesothelioma	0	0.0	0.0	1	100.0	0.0	C45
Kaposi sarcoma	2	100.0	0.0	1	100.0	0.0	C46
Connective and soft tissue	29	93.1	3.4	27	92.6	3.7	C47,C49
Breast	10	90.0	0.0	805	95.5	0.7	C50
Vulva				10	100.0	0.0	C51
Vagina				0	0.0	0.0	C52
Cervix uteri				207	91.3	2.4	C53
Corpus uteri				127	96.1	1.6	C54
Uterus unspecified				10	70.0	20.0	C55
Ovary				127	87.4	0.8	C56
Other female genital organs				1	0.0	0.0	C57
Placenta				2	100.0	0.0	C58
Penis	23	95.7	0.0				C60
Prostate	169	88.8	5.9				C61
Testis	16	100.0	0.0				C62
Other male genital organs	1	100.0	0.0				C63
Kidney	37	73.0	24.3	16	81.3	18.8	C64
Renal pelvis	5	100.0	0.0	1	100.0	0.0	C65
Ureter	1	100.0	0.0	0	0.0	0.0	C66
Bladder	95	95.8	2.1	16	87.5	12.5	C67
Other urinary organs	0	0.0	0.0	0	0.0	0.0	C68
Eye	6	100.0	0.0	3	33.3	0.0	C69
Brain, nervous system	27	88.9	3.7	20	95.0	0.0	C70-C72
Thyroid	49	95.9	4.1	217	96.8	0.9	C73
Adrenal gland	4	100.0	0.0	1	100.0	0.0	C74
Other endocrine	0	0.0	0.0	0	0.0	0.0	C75
Hodgkin disease	8	100.0	0.0	7	100.0	0.0	C81
Non-Hodgkin lymphoma	91	100.0	0.0	96	100.0	0.0	C82-C85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	37	100.0	0.0	22	100.0	0.0	C90
Leukemia	102	100.0	0.0	49	100.0	0.0	C91-C95
Myelodysplastic	2	100.0	0.0	0	0.0	0.0	D45-D47
Other and unspecified	86	62.8	25.6	46	56.5	32.6	O&U
All sites	**2,528**	**85.4**	**5.7**	**2,769**	**91.1**	**2.9**	**All**
All sites without liver	**2,272**	**91.6**	**4.9**	**2,651**	**93.5**	**2.5**	**All**

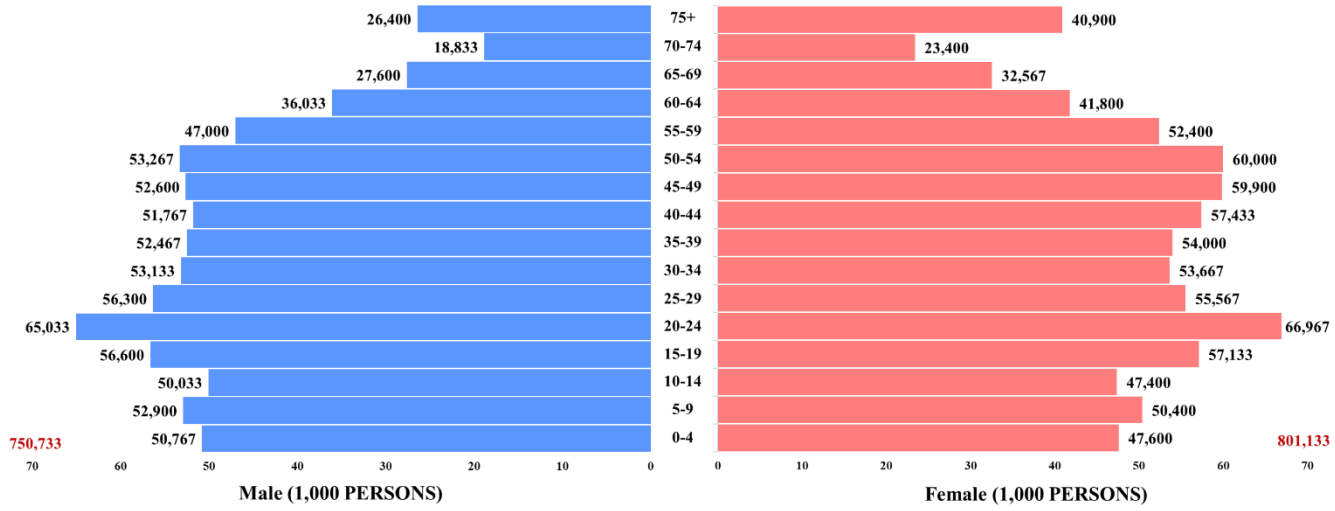
3.16 Songkhla Cancer Registry

Registration area

Songkhla is one of 14 provinces located in the southern part of Thailand at latitude 07:12 N and longitude 100:36 E. The land area is 7,394 square kilometers and Songkhla registry covers 16 districts. The estimated population in 2020 was 1,551,866 with 750,733 males and 801,133 females. About 80% of the population is Buddhist, and nearly 20% are Muslims. Christians and others account of less than 1% of the population. People with Chinese blood live in Songkhla town and Hat Yai city, which are the economic centers of the south of Thailand.



Population pyramid Songkhla
estimated population in 2020 (2019 – 2021)



Cancer care facilities

The government of Thailand predominantly provides general health care in the region. There are three hospitals with over 500 beds, 12 community hospitals and an extensive network of health care facilities at the community level. Private practitioners, a few private hospitals, and a few small special hospitals, all in the urban area, supplement this. The university hospital of Prince of Songkla University is the biggest of the two places in the south of Thailand that provides radiotherapy services. A few other large hospitals also have facilities for cancer surgery and chemotherapy. Patients suspected of having cancer in the health care system and community hospitals are referred to Songkhla, Hat Yai or Songklanagarind hospitals.

Registry procedures

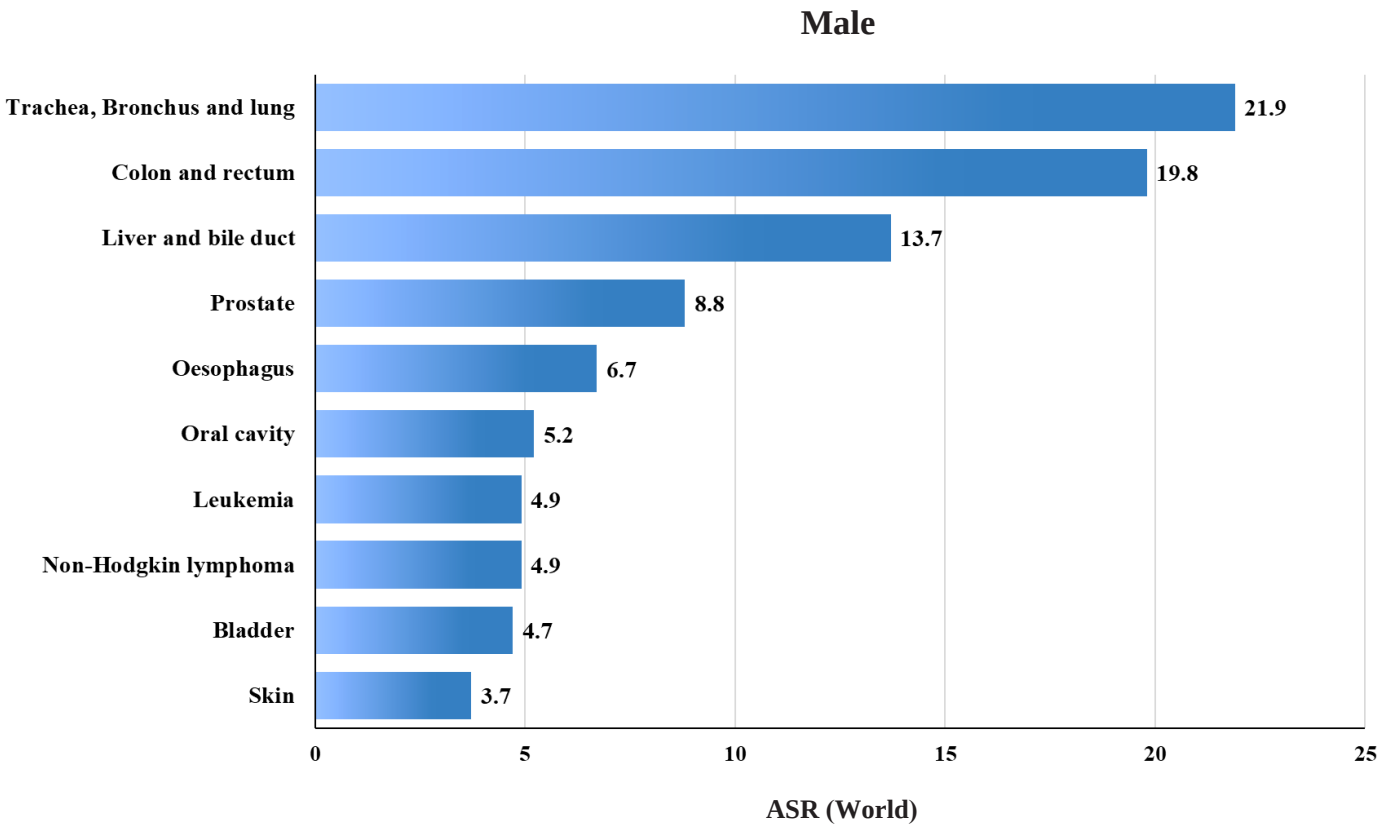
The registry is located within the Faculty of Medicine, Prince of Songkla University. The registry is staffed by two part-time medical doctors, a full-time nurse as a registrar and four full-time workers. The Songkhla registry undertakes active case finding from 16 sources of data consists of Songklanagarind hospital, Hat Yai hospital, Songkhla hospital, community hospitals, private hospitals and the Bureau of Registration Administration, Department of Provincial Administration, Ministry of Interior. The completeness of death registration is acceptable but the cause of death is not so accurate, being mostly cardiopulmonary arrest and senility. After the national health care reform started in 2000, the validity of the death certificates has been improving. The hospital-based registry of the Songklanagarind hospital is also run by the registry staff and the data are shared with the registry of Songkhla. Hat Yai hospital has its own system of cancer case reporting but not a full-scale hospital-based cancer registry and provides the cases residing in Songkhla to the registry. The registry staff visit Hat Yai, Songkhla and private hospitals and consult the medical records and pathology records. Assigned staff in community hospitals send the record forms of cancer cases to the registry once a year. They are regularly visited by registry staff to review procedures. Some cases are sent to the registry by the network of cancer registries in Thailand, especially the registry of Bangkok.

The number of undiagnosed and unregistered cancer cases is difficult to estimate. Some Muslims in a remote area in the south of Songkhla visit large hospitals in the two nearby provinces and some of them, especially the elderly, use traditional herbal medicines and never enter the health care system of the country. Because of the linkage between the referral system and the new national health assurance system, it is expected that only a small number of cancer patients in that remote area seek medical facilities outside the province. A few other cases look for special medical care in Bangkok, the capital of Thailand.

Summary of results

New cases registered in 2020; 1,266 were males and 1,275 were females, making 2,541 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 125.7 per 100,000 in with trachea, bronchus and lung cancer ranking first (ASR = 21.9) followed by colon and rectum (ASR = 19.8), liver and bile duct (ASR = 13.7). The ASR of all cancer in females was 111.0 the three leading sites being breast (ASR = 31.9), colon and rectum (ASR = 11.7) and cervix uteri (ASR = 8.8).

Figure 3.16.1 Leading cancer in Songkhla (mean annual ASR 2019-2021)



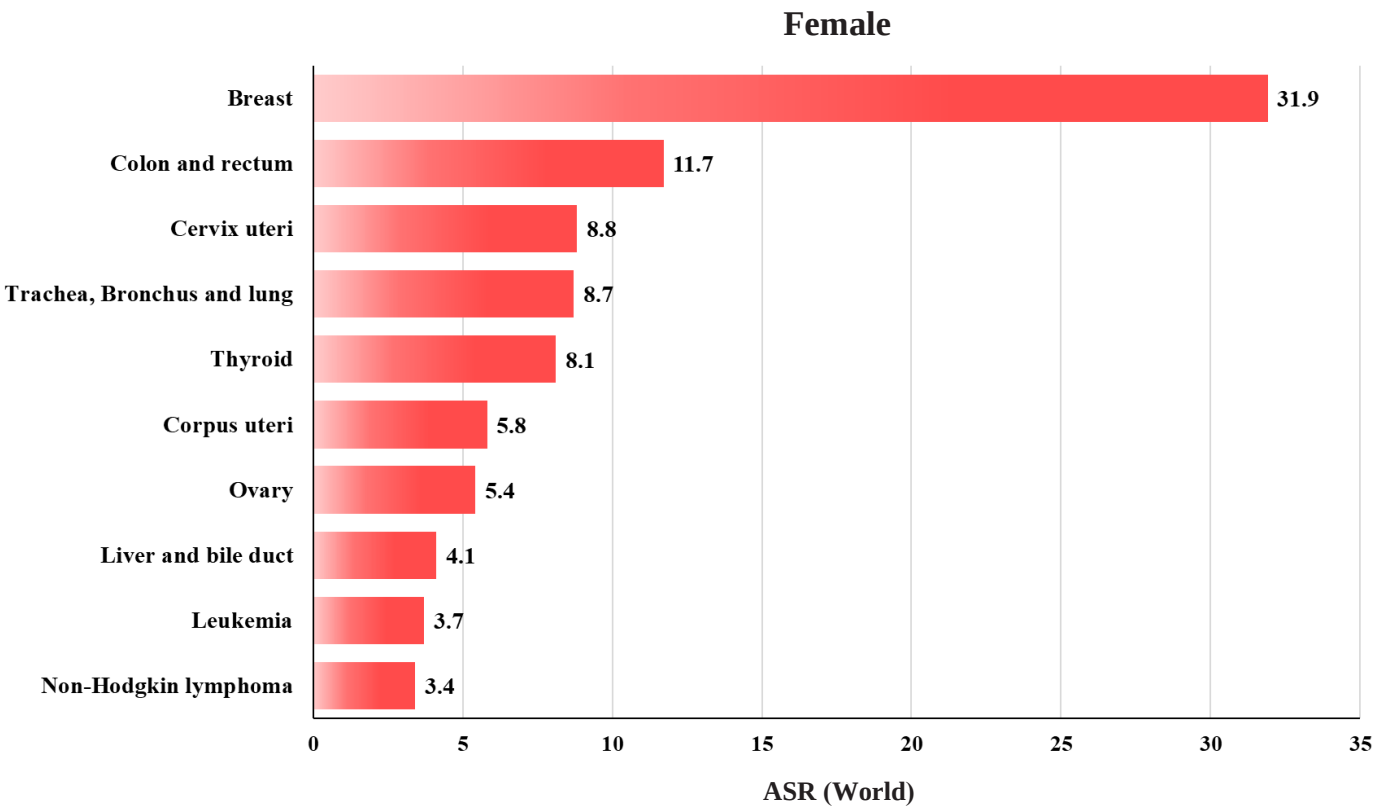


Table 3.16.1 Songkhla (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	C00	0.0	0.0
Tongue	30	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.3	3.9	6.3	13.8	9.2	6.5	14.5	5.3	15.2	4.0	2.9	C01-02	0.2	0.3
Mouth	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	10.6	9.3	8.5	15.9	16.4	2.8	2.0	C03-06	0.1	0.3
Salivary glands	3	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.6	0.7	0.0	0.0	0.0	5.1	0.4	0.3	C07-08	0.0	0.0
Tonsil	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.6	1.9	4.3	10.2	4.8	1.8	5.1	1.5	1.1	C09	0.1	0.1
Other oropharynx	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.9	1.4	2.8	1.2	5.3	2.5	0.8	0.6	C10	0.0	0.1
Nasopharynx	26	0.0	0.0	0.0	0.0	0.5	1.2	2.5	1.3	7.7	8.9	7.5	5.7	8.3	9.7	3.5	5.1	3.5	2.8	C11	0.2	0.3
Hypopharynx	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	5.1	2.5	5.7	6.5	7.2	7.1	11.4	2.2	1.7	C12-13	0.1	0.2
Pharynx unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.0	1.2	0.0	1.3	0.2	0.1	C14	0.0	0.0
Oesophagus	68	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.6	4.5	8.9	18.1	25.5	32.4	26.6	46.0	42.9	9.1	6.7	C15	0.5	0.8
Stomach	20	0.0	0.0	0.0	0.0	0.0	0.6	0.6	3.2	0.6	2.5	3.8	2.8	6.5	10.9	14.2	18.9	2.7	2.0	C16	0.1	0.2
Small intestine	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	0.0	0.7	1.9	3.6	1.8	2.5	0.5	0.4	C17	0.0	0.0
Colon	112	0.0	0.0	0.0	0.0	0.0	1.2	0.6	0.6	7.1	13.3	16.3	27.0	45.3	72.5	88.5	98.5	15.0	11.0	C18	0.6	1.4
Rectum	86	0.0	0.0	0.0	0.6	0.5	1.2	1.9	1.9	4.5	10.1	13.8	24.8	31.5	50.7	58.4	74.5	11.5	8.4	C19-20	0.5	1.0
Anus	4	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	1.9	0.6	0.6	0.0	1.9	0.0	3.5	1.3	0.5	0.4	C21	0.0	0.0
Liver and bile duct	139	0.7	0.0	0.0	0.0	0.0	1.2	1.3	3.8	10.9	13.3	30.7	58.9	74.9	66.4	63.7	79.5	18.5	13.7	C22,C24	1.0	1.6
Gallbladder	5	0.0	0.0	0.7	0.0	0.5	0.0	0.0	0.0	0.6	0.0	0.0	1.4	2.8	2.4	0.0	6.3	0.7	0.5	C23	0.0	0.0
Pancreas	17	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.9	1.3	4.3	3.7	10.9	15.9	20.2	2.3	1.7	C25	0.1	0.2
Nose, sinuses etc.	6	0.0	0.0	0.0	0.0	0.0	0.6	1.3	0.6	0.6	1.3	3.1	1.4	0.9	0.0	0.0	3.8	0.8	0.6	C30-31	0.0	0.0
Larynx	29	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	0.6	3.2	3.1	8.5	6.5	13.3	26.5	34.1	3.8	2.7	C32	0.1	0.3
Trachea, Bronchus and lung	224	0.0	0.0	0.0	0.0	0.0	1.8	1.9	5.7	12.9	22.8	21.3	50.4	92.5	140.1	191.2	215.9	29.8	21.9	C33-34	1.0	2.7
Other thoracic organs	4	0.0	0.0	0.0	0.6	0.5	0.0	0.6	0.6	0.6	0.0	0.6	1.4	1.9	1.2	1.8	1.3	0.6	0.5	C37-38	0.0	0.0
Bone	5	0.0	0.0	2.0	2.9	1.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.9	0.0	1.8	0.0	0.7	0.8	C40-C41	0.0	0.1
Melanoma of skin	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.0	2.8	0.0	8.8	6.3	0.7	0.5	C43	0.0	0.1
Other skin	35	0.0	0.0	0.0	0.0	0.0	0.6	2.5	0.0	1.3	0.6	3.1	5.7	10.2	15.7	17.7	63.1	4.7	3.2	C44	0.1	0.3
Connective tissue	9	0.7	0.6	0.0	0.0	0.5	0.6	0.0	0.0	0.6	2.5	1.3	0.7	3.7	6.0	3.5	6.3	1.2	1.0	C47,C49	0.1	0.1
Breast	3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.6	0.6	0.7	0.9	1.2	1.8	2.5	0.4	0.3	C50	0.0	0.0
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51	0.0	0.0
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52	0.0	0.0
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53	0.0	0.0
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54	0.0	0.0
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55	0.0	0.0
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56	0.0	0.0
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57	0.0	0.0
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58	0.0	0.0
Penis	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	4.4	2.1	3.7	6.0	1.8	15.2	1.6	1.1	C60	0.1	0.1
Prostate	93	0.7	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	1.9	1.9	6.4	31.5	51.9	125.7	145.2	12.4	8.8	C61	0.2	1.1
Testis	3	0.7	0.0	0.0	0.6	1.0	0.6	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	C62	0.0	0.0
Other male genital organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.7	0.9	0.0	0.0	0.0	0.1	C63	0.0	0.0
Kidney	19	0.7	0.6	0.0	0.0	0.0	0.6	1.3	0.6	0.6	2.5	2.5	2.8	13.0	13.3	10.6	7.6	2.5	2.0	C64	0.1	0.2
Renal pelvis	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.2	3.5	1.3	0.3	0.2	C65	0.0	0.0
Ureter	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.2	1.8	2.5	0.2	0.2	C66	0.0	0.0
Bladder	52	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	2.5	4.4	18.4	7.4	20.5	51.3	79.5	6.9	4.7	C67	0.2	0.5
Other urinary organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.1	0.1	C68	0.0	0.0
Eye	3	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.7	0.0	0.0	1.8	2.5	0.4	0.4	C69	0.0	0.0
Brain, nervous system	14	0.7	0.0	0.7	0.6	1.0	0.6	0.0	0.6	3.2	3.8	3.1	2.1	6.5	6.0	7.1	1.3	1.9	1.6	C70-72	0.1	0.2
Thyroid	15	0.0	0.0	0.0	0.0	0.5	1.2	1.9	5.1	7.7	1.9	1.3	3.5	2.8	0.0	3.5	5.1	2.0	1.6	C73	0.1	0.1
Adrenal gland	1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	C74	0.0	0.0
Other endocrine	2	0.0	1.3	1.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	C75	0.0	0.0
Hodgkin disease	5	0.0	0.0	0.0	0.0	0.5	1.2	0.6	0.6	0.6	1.3	0.6	0.7	1.9	0.0	3.5	0.0	0.6	0.5	C81	0.0	0.1
Non-Hodgkin lymphoma	48	0.0	0.6	2.0	0.6	1.0	0.6	1.3	3.2	4.5	5.1	8.8	10.6	14.8	31.4	28.3	34.1	6.4	4.9	C82-85,C96	0.3	0.6
Multiple myeloma	12	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.0	1.9	1.4	7.4	9.7	7.1	12.6	1.6	1.2	C90	0.1	0.1
Lymphoid leukemia	11	1.3	4.4	2.7	1.8	0.5	0.0	0.6	0.0	0.6	0.0	1.3	1.4	2.8	2.4	1.8	5.1	1.5	1.6	C91	0.1	0.1
Myeloid leukemia	25	0.0	3.2	1.3	0.0	1.0	1.8	1.9	0.6	1.9	1.9	3.1	5.0	7.4	16.9	5.3	18.9	3.3	2.7	C92-94	0.1	0.3
Leukemia unspecified	6	0.7	0.0	0.0	0.0	0.5	0.0	0.0	0.6	0.0	0.0	0.6	0.7	0.9	2.4	5.3	7.6	0.8	0.6	C95	0.0	0.1
Myelodysplastic disease	9	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.6	0.6	0.6	0.0	0.7	6.5	6.0	5.3	8.8	1.2	0.9	D45-D47	0.1	0.1
Other and unspecified	39	0.7	0.0	0.7	0.6	1.0	0.6	1.9	0.6	1.9	6.4	5.6	12.0	12.0	18.1	24.8	34.1	5.2	4.0	O&U	0.2	0.4
All sites	**1,266**	**9.2**	**11.3**	**11.3**	**8.2**	**11.8**	**18.4**	**30.1**	**39.4**	**90.8**	**138.8**	**188.4**	**324.8**	**483.8**	**655.8**	**876.1**	**1,121.2**	**168.5**	**125.7**	**ALL**	**6.8**	**14.5**

Table 3.16.2 Songkhla (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10	Cum. 0-64	Rate. 0-74
Lip	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.4	0.2	0.1	C00	0.0	0.0
Tongue	10	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.6	1.2	2.2	1.7	4.5	0.8	3.1	5.7	3.3	1.3	0.9	C01-02	0.1	0.1
Mouth	5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.6	0.0	0.6	0.6	0.6	0.0	0.0	8.5	3.3	0.6	0.4	C03-06	0.0	0.1
Salivary glands	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.6	0.0	1.0	0.0	3.3	0.3	0.2	C07-08	0.0	0.0
Tonsil	1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.8	0.1	0.1	C09	0.0	0.0
Other oropharynx	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	C10	0.0	0.0
Nasopharynx	6	0.0	0.0	0.0	0.0	0.5	1.2	0.0	1.2	1.7	1.7	0.6	1.9	0.8	2.0	1.4	0.0	0.8	0.6	C11	0.0	0.1
Hypopharynx	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	C12-13	0.0	0.0
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C14	0.0	0.0
Oesophagus	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	1.3	1.6	0.0	2.8	5.7	0.6	0.3	C15	0.0	0.0
Stomach	13	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.6	1.2	0.6	3.3	2.5	4.8	6.1	5.7	4.9	1.6	1.1	C16	0.1	0.1
Small intestine	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.6	1.6	0.0	0.0	0.0	0.2	0.2	C17	0.0	0.0
Colon	94	0.0	0.0	0.0	0.6	0.0	1.8	1.9	2.5	4.1	10.6	15.6	22.3	24.7	43.0	32.8	70.1	11.7	7.3	C18	0.4	0.8
Rectum	52	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.9	5.8	5.6	9.4	12.7	15.9	15.4	27.1	33.4	6.5	4.1	C19-20	0.3	0.5
Anus	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	0.6	0.6	0.0	3.1	1.4	1.6	0.4	0.3	C21	0.0	0.0
Liver and bile duct	54	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.7	3.3	8.9	6.4	17.5	16.4	39.9	47.3	6.7	4.1	C22,C24	0.2	0.5
Gallbladder	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.0	1.3	0.8	1.0	2.8	2.4	0.5	0.3	C23	0.0	0.0
Pancreas	21	0.0	0.0	0.0	0.0	0.5	0.0	0.6	0.0	0.0	1.1	2.8	3.2	4.8	13.3	12.8	17.1	2.6	1.6	C25	0.1	0.2
Nose, sinuses etc.	2	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.6	1.0	0.0	0.0	0.2	0.2	C30-31	0.0	0.0
Larynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	1.4	0.0	0.1	0.1	C32	0.0	0.0
Trachea, Bronchus and lung	109	0.0	0.0	0.0	0.0	0.5	0.6	2.5	4.3	4.1	12.8	13.9	22.9	32.7	44.0	72.6	72.5	13.6	8.7	C33-34	0.5	1.1
Other thoracic organs	2	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.6	0.6	0.6	0.0	0.0	1.4	0.0	0.2	0.2	C37-38	0.0	0.0
Bone	5	0.0	0.0	2.1	1.2	0.5	0.0	0.6	1.2	0.6	0.6	0.0	0.6	1.6	0.0	1.4	0.8	0.7	0.6	C40-C41	0.0	0.1
Melanoma of skin	4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	1.1	0.0	0.8	2.0	1.4	1.6	0.5	0.4	C43	0.0	0.0
Other skin	40	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	2.3	2.2	2.2	8.9	7.2	7.2	17.1	52.2	5.0	2.7	C44	0.1	0.2
Connective tissue	9	0.7	0.0	0.7	0.6	1.5	0.0	0.0	1.2	0.6	1.7	0.0	3.8	2.4	2.0	0.0	2.4	1.1	0.9	C47,C49	0.1	0.1
Breast	355	0.0	0.0	0.0	0.6	0.0	4.2	18.6	35.2	70.2	83.5	98.9	97.3	110.0	88.0	96.9	61.1	44.3	31.9	C50	2.6	3.5
Vulva	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0	2.4	0.2	0.1	C51	0.0	0.0
Vagina	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.8	1.0	0.0	0.8	0.2	0.1	C52	0.0	0.0
Cervix uteri	97	0.0	0.0	0.0	0.0	0.0	1.8	13.0	13.0	24.4	16.7	23.3	21.6	25.5	22.5	19.9	24.4	12.1	8.8	C53	0.7	0.9
Corpus uteri	65	0.0	0.0	0.0	0.0	0.0	1.8	3.1	4.3	3.5	6.7	16.1	18.4	31.1	37.9	21.4	10.6	8.1	5.8	C54	0.4	0.7
Uterus unspecified	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	3.3	1.3	0.8	3.1	1.4	0.0	0.6	0.4	C55	0.0	0.1
Ovary	59	0.0	0.0	1.4	1.8	1.5	2.4	1.9	6.8	10.4	9.5	11.7	15.3	15.2	18.4	24.2	13.0	7.3	5.4	C56	0.4	0.6
Other female genital organs	1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.8	1.0	0.0	0.0	0.2	0.2	C57	0.0	0.0
Placenta	2	0.0	0.0	0.7	0.6	0.5	0.6	0.0	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.2	0.3	C58	0.0	0.0
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60	0.0	0.0
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61	0.0	0.0
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62	0.0	0.0
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63	0.0	0.0
Kidney	10	0.7	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.6	0.6	0.6	0.6	0.0	1.0	2.8	14.7	1.2	0.7	C64	0.0	0.0
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.8	0.1	0.0	C65	0.0	0.0
Ureter	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.0	1.4	0.8	0.2	0.1	C66	0.0	0.0
Bladder	12	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	1.1	1.1	1.9	3.2	8.2	1.4	10.6	1.5	0.9	C67	0.0	0.1
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C68	0.0	0.0
Eye	2	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	1.4	1.6	0.2	0.1	C69	0.0	0.0
Brain, nervous system	9	0.0	2.0	0.0	0.6	0.5	0.0	0.6	0.6	0.6	0.0	2.8	1.9	4.0	2.0	1.4	2.4	1.1	0.9	C70-72	0.1	0.1
Thyroid	80	0.0	0.0	0.7	3.5	4.5	13.2	14.3	15.4	14.5	15.6	15.0	7.6	18.3	12.3	11.4	14.7	9.9	8.1	C73	0.6	0.7
Adrenal gland	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C74	0.0	0.0
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C75	0.0	0.0
Hodgkin disease	6	0.0	0.0	0.0	3.5	1.0	0.6	0.6	1.9	0.6	0.0	0.0	0.6	0.0	0.0	2.8	0.0	0.7	0.7	C81	0.0	0.1
Non-Hodgkin lymphoma	42	0.0	0.0	0.0	0.0	2.0	1.8	1.9	2.5	2.9	3.3	5.6	8.3	12.0	14.3	21.4	27.7	5.2	3.4	C82-85,C96	0.2	0.4
Multiple myeloma	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.7	2.5	3.2	4.1	4.3	6.5	1.1	0.7	C90	0.0	0.1
Lymphoid leukemia	10	5.6	3.3	1.4	1.2	0.5	0.0	0.0	0.6	0.0	1.7	0.6	0.0	1.6	0.0	4.3	1.6	1.2	1.6	C91	0.1	0.1
Myeloid leukemia	16	0.7	0.0	1.4	1.8	0.0	3.0	0.6	0.6	0.6	1.1	0.6	3.2	6.4	3.1	8.5	6.5	2.0	1.6	C92-94	0.1	0.2
Leukemia unspecified	4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	0.0	0.8	1.0	2.8	3.3	0.5	0.5	C95	0.0	0.0
Myelodysplastic disease	11	0.0	0.0	0.0	0.0	0.0	0.6	1.9	0.0	0.6	1.7	0.6	1.3	0.0	3.1	4.3	13.9	1.4	0.8	D45-D47	0.0	0.1
Other and unspecified	30	0.0	0.0	0.0	0.6	0.5	1.2	0.6	3.1	2.9	1.7	3.3	5.7	5.6	13.3	21.3	18.7	3.8	2.5	O&U	0.1	0.3
All sites	**1,275**	**11.2**	**6.0**	**8.4**	**16.9**	**14.9**	**37.8**	**66.5**	**104.3**	**159.0**	**191.4**	**249.4**	**285.0**	**361.2**	**398.2**	**491.5**	**561.5**	**159.2**	**111.0**	**ALL**	**7.6**	**12.0**

Table 3.16.3 Mean annual incidence, Songkhla, 2019-2021

Site	Male						Female						ICD-10
	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74 (percent)	No.Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Cum. 0-64 (percent)	Rate. 0-74 (percent)	
Lip	0	0.0	0.0	0.0	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C00
Tongue	30	2.3	4.0	2.9	0.2	0.3	10	0.8	1.3	0.9	0.1	0.1	C01-02
Mouth	21	1.7	2.8	2.0	0.1	0.3	5	0.4	0.6	0.4	0.0	0.1	C03-06
Salivary glands	3	0.2	0.4	0.3	0.0	0.0	2	0.2	0.3	0.2	0.0	0.0	C07-08
Tonsil	11	0.9	1.5	1.1	0.1	0.1	1	0.1	0.1	0.1	0.0	0.0	C09
Other oropharynx	6	0.4	0.8	0.6	0.0	0.1	0	0.0	0.0	0.0	0.0	0.0	C10
Nasopharynx	26	2.1	3.5	2.8	0.2	0.3	6	0.5	0.8	0.6	0.0	0.1	C11
Hypopharynx	17	1.3	2.2	1.7	0.1	0.2	0	0.0	0.0	0.0	0.0	0.0	C12-13
Pharynx unspecified	1	0.1	0.2	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C14
Oesophagus	68	5.4	9.1	6.7	0.5	0.8	5	0.4	0.6	0.3	0.0	0.0	C15
Stomach	20	1.6	2.7	2.0	0.1	0.2	13	1.0	1.6	1.1	0.1	0.1	C16
Small intestine	4	0.3	0.5	0.4	0.0	0.0	2	0.1	0.2	0.2	0.0	0.0	C17
Colon	112	8.9	15.0	11.0	0.6	1.4	94	7.4	11.7	7.3	0.4	0.8	C18
Rectum	86	6.8	11.5	8.4	0.5	1.0	52	4.1	6.5	4.1	0.3	0.5	C19-20
Anus	4	0.3	0.5	0.4	0.0	0.0	3	0.3	0.4	0.3	0.0	0.0	C21
Liver and bile duct	139	11.0	18.5	13.7	1.0	1.6	54	4.2	6.7	4.1	0.2	0.5	C22,C24
Gallbladder	5	0.4	0.7	0.5	0.0	0.0	4	0.3	0.5	0.3	0.0	0.0	C23
Pancreas	17	1.4	2.3	1.7	0.1	0.2	21	1.6	2.6	1.6	0.1	0.2	C25
Nose, sinuses etc.	6	0.5	0.8	0.6	0.0	0.0	2	0.2	0.2	0.2	0.0	0.0	C30-31
Larynx	29	2.3	3.8	2.7	0.1	0.3	1	0.1	0.1	0.1	0.0	0.0	C32
Trachea, Bronchus and lung	224	17.7	29.8	21.9	1.0	2.7	109	8.6	13.6	8.7	0.5	1.1	C33-34
Other thoracic organs	4	0.3	0.6	0.5	0.0	0.0	2	0.1	0.2	0.2	0.0	0.0	C37-38
Bone	5	0.4	0.7	0.8	0.0	0.1	5	0.4	0.7	0.6	0.0	0.1	C40-C41
Melanoma of skin	5	0.4	0.7	0.5	0.0	0.1	4	0.3	0.5	0.4	0.0	0.0	C43
Other skin	35	2.8	4.7	3.2	0.1	0.3	40	3.1	5.0	2.7	0.1	0.2	C44
Connective tissue	9	0.7	1.2	1.0	0.1	0.1	9	0.7	1.1	0.9	0.1	0.1	C47,C49
Breast	3	0.2	0.4	0.3	0.0	0.0	355	27.8	44.3	31.9	2.6	3.5	C50
Vulva							2	0.1	0.2	0.1	0.0	0.0	C51
Vagina							1	0.1	0.2	0.1	0.0	0.0	C52
Cervix uteri							97	7.6	12.1	8.8	0.7	0.9	C53
Corpus uteri							65	5.1	8.1	5.8	0.4	0.7	C54
Uterus unspecified							5	0.4	0.6	0.4	0.0	0.1	C55
Ovary							59	4.6	7.3	5.4	0.4	0.6	C56
Other female genital organs							1	0.1	0.2	0.2	0.0	0.0	C57
Placenta							2	0.2	0.2	0.3	0.0	0.0	C58
Penis	12	0.9	1.6	1.1	0.1	0.1							C60
Prostate	93	7.4	12.4	8.8	0.2	1.1							C61
Testis	3	0.2	0.4	0.4	0.0	0.0							C62
Other male genital organs	1	0.1	0.1	0.1	0.0	0.0							C63
Kidney	19	1.5	2.5	2.0	0.1	0.2	10	0.8	1.2	0.7	0.0	0.0	C64
Renal pelvis	2	0.2	0.3	0.2	0.0	0.0	1	0.1	0.1	0.0	0.0	0.0	C65
Ureter	2	0.1	0.2	0.2	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C66
Bladder	52	4.1	6.9	4.7	0.2	0.5	12	0.9	1.5	0.9	0.0	0.1	C67
Other urinary organs	1	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C68
Eye	3	0.2	0.4	0.4	0.0	0.0	2	0.1	0.2	0.1	0.0	0.0	C69
Brain, nervous system	14	1.1	1.9	1.6	0.1	0.2	9	0.7	1.1	0.9	0.1	0.1	C70-72
Thyroid	15	1.2	2.0	1.6	0.1	0.1	80	6.2	9.9	8.1	0.6	0.7	C73
Adrenal gland	1	0.1	0.1	0.2	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C74
Other endocrine	2	0.1	0.2	0.3	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	5	0.4	0.6	0.5	0.0	0.1	6	0.4	0.7	0.7	0.0	0.1	C81
Non-Hodgkin lymphoma	48	3.8	6.4	4.9	0.3	0.6	42	3.3	5.2	3.4	0.2	0.4	C82-85,C96
Multiple myeloma	12	1.0	1.6	1.2	0.1	0.1	9	0.7	1.1	0.7	0.0	0.1	C90
Lymphoid leukemia	11	0.9	1.5	1.6	0.1	0.1	10	0.8	1.2	1.6	0.1	0.1	C91
Myeloid leukemia	25	1.9	3.3	2.7	0.1	0.3	16	1.2	2.0	1.6	0.1	0.2	C92-94
Leukemia unspecified	6	0.4	0.8	0.6	0.0	0.1	4	0.3	0.5	0.5	0.0	0.0	C95
Myelodysplastic disease	9	0.7	1.2	0.9	0.1	0.1	11	0.9	1.4	0.8	0.0	0.1	D45-D47
Other and unspecified	39	3.1	5.2	4.0	0.2	0.4	30	2.4	3.8	2.5	0.1	0.3	O&U
All sites	**1,266**	**100.0**	**168.5**	**125.7**	**6.8**	**14.5**	**1,275**	**100.0**	**159.2**	**111.0**	**7.6**	**12.0**	**ALL**

Table 3.16.4 Percentage of morphologically verified and death certificate only cases, Songkhla

Site	Male			Female			ICD-10
	Cases 3 Year	%MV	%DCO	Cases 3 Year	%MV	%DCO	
Oral cavity	162	95.7	1.9	57	96.5	3.5	C00-C08
Oropharynx	55	94.5	5.5	4	100.0	0.0	C09-C10,C14
Nasopharynx	78	96.2	2.6	19	94.7	5.3	C11
Hypopharynx	50	96.0	4.0	1	100.0	0.0	C12-C13
Esophagus	205	87.3	6.3	15	86.7	0.0	C15
Stomach	61	85.2	6.6	38	84.2	2.6	C16
Small intestine	11	100.0	0.0	5	80.0	0.0	C17
Colon and rectum	607	92.4	2.5	448	92.2	1.8	C18-C21
Liver and bile duct	417	25.7	7.0	162	31.5	8.0	C22,C24
Gallbladder	15	46.7	26.7	12	50.0	25.0	C23
pancrease	52	57.7	9.6	63	54.0	12.7	C25
Nose,sinuses etc	18	100.0	0.0	6	100.0	0.0	C30-C31
Larynx	86	90.7	3.5	2	100.0	0.0	C32
Trachea, brochus and lung	671	64.2	9.1	328	71.3	6.1	C33-C34
Other thoracic organs	13	69.2	0.0	5	60.0	0.0	C37-C38
Bone	16	87.5	6.3	16	68.8	12.5	C40-C41
Melanoma of skin	16	100.0	0.0	11	100.0	0.0	C43
Other skin	106	100.0	0.0	120	100.0	0.0	C44
Mesothelioma	0	0.0	0.0	0	0.0	0.0	C45
Kaposi sarcoma	0	0.0	0.0	0	0.0	0.0	C46
Connective and soft tissue	28	89.3	0.0	26	88.5	0.0	C47,C49
Breast	9	88.9	11.1	1,064	97.5	0.8	C50
Vulva				5	100.0	0.0	C51
Vagina				4	75.0	25.0	C52
Cervix uteri				291	97.6	2.1	C53
Corpus uteri				195	99.0	0.5	C54
Uterus unspecified				14	92.9	0.0	C55
Ovary				176	86.9	4.5	C56
Other female genital organs				4	50.0	25.0	C57
Placenta				6	100.0	0.0	C58
Penis	35	94.3	0.0				C60
Prostate	280	89.3	1.4				C61
Testis	8	100.0	0.0				C62
Other male genital organs	3	100.0	0.0				C63
Kidney	56	83.9	1.8	30	60.0	0.0	C64
Renal pelvis	6	83.3	0.0	2	100.0	0.0	C65
Ureter	5	100.0	0.0	4	75.0	0.0	C66
Bladder	156	89.7	1.3	35	80.0	0.0	C67
Other urinary organs	2	100.0	0.0	0	0.0	0.0	C68
Eye	9	77.8	0.0	5	100.0	0.0	C69
Brain, nervous system	43	83.7	0.0	27	85.2	0.0	C70-C72
Thyroid	45	91.1	2.2	239	98.7	0.0	C73
Adrenal gland	3	33.3	33.3	2	50.0	50.0	C74
Other endocrine	5	100.0	0.0	0	0.0	0.0	C75
Hodgkin disease	14	100.0	0.0	17	94.1	0.0	C81
Non-Hodgkin lymphoma	144	99.3	0.7	126	99.2	0.0	C82-C85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	37	97.3	0.0	27	100.0	0.0	C90
Leukemia	124	98.4	1.6	90	100.0	0.0	C91-C95
Myelodysplastic	28	100.0	0.0	34	100.0	0.0	D45-D47
Other and unspecified	118	44.1	45.0	91	46.5	40.7	O&U
All sites	**3,797**	**77.9**	**5.5**	**3,826**	**88.5**	**3.1**	**All**
All sites without liver	**3,380**	**84.3**	**5.3**	**3,664**	**91.0**	**2.9**	**All**

Chapter 4

Cancer Incidence in Health Regions

4.1 Health Regions 1

Health Regions 1 is located in the northern part of Thailand and consists of 8 provinces : Chiang Mai, Lamphun, Lampang, Phrae, Nan, Phayao, Chiang Rai and Mae Hong Son. The health region has a population-based cancer registry in Chiang Mai, Lamphun, Lampang and Nan. The estimated population in 2020 was 5,289,734, with 2,582,467 males and 2,707,267 females. New cases were registered in 2020; 7,284 were males and 7,562 were females, making 14,846 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 155.8 per 100,000, with liver and bile duct ranking first (ASR = 33.2) followed by trachea, bronchus and lung (ASR = 28.9) and colon and rectum (ASR = 21.7). The ASR of all cancer in females was 155.8, the three leading sites being breast (ASR = 38.0) followed by trachea, bronchus and lung (ASR = 18.5) and colon and rectum (ASR = 15.5).

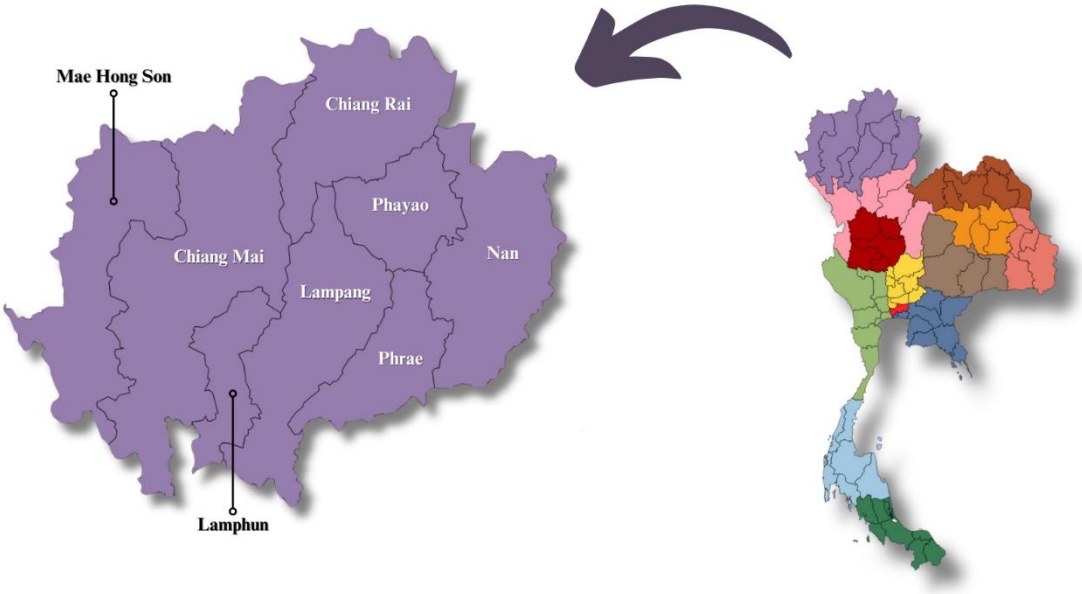


Figure 4.1.1 Leading cancer in Health Regions 1 (mean annual ASR 2019-2021)

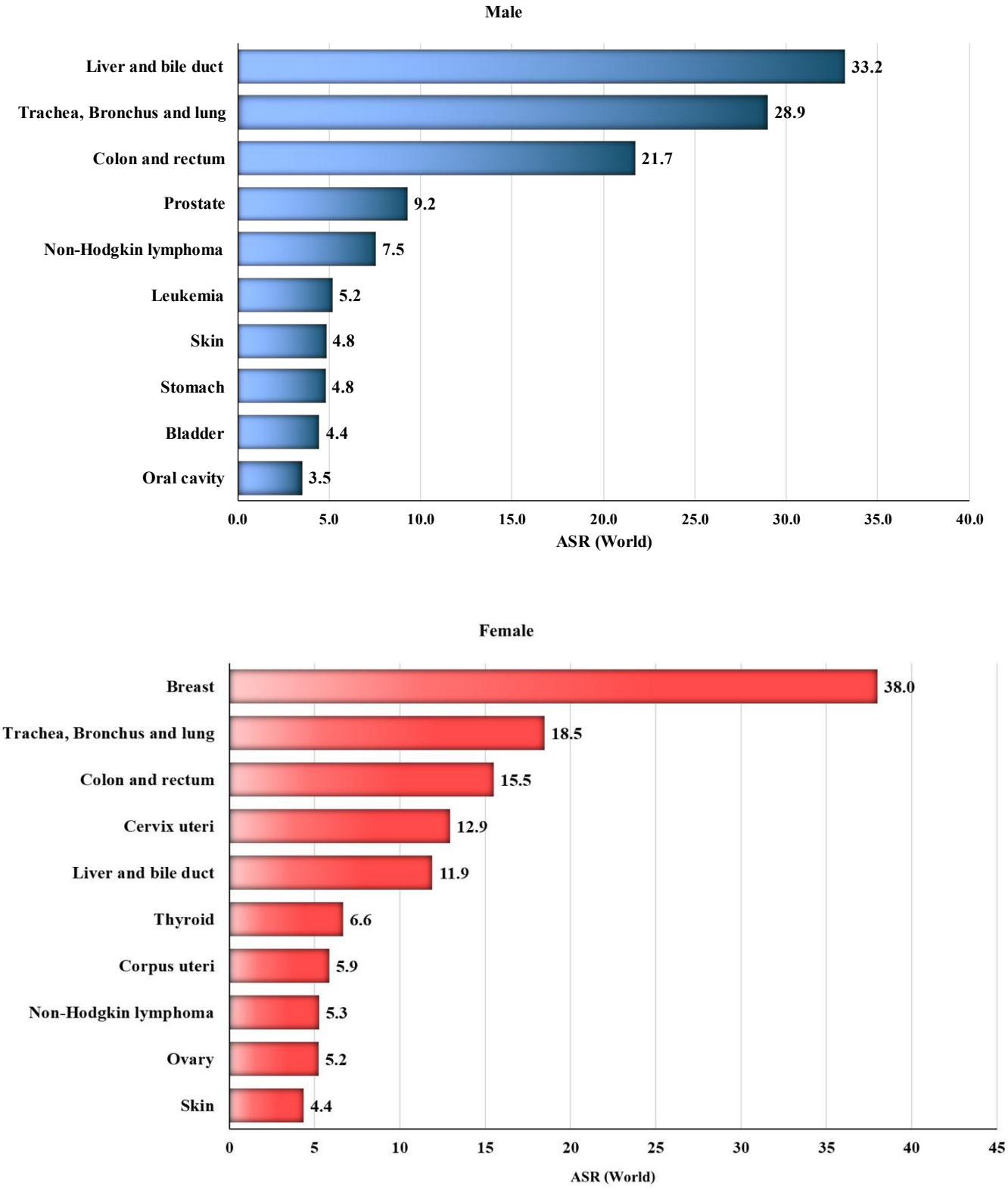


Table 4.1.1 Health Regions 1 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.1	0.0	0.2	0.4	0.9	0.1	0.1	C00
Tongue	73	0.0	0.0	0.0	0.0	0.0	0.2	0.9	1.0	1.9	2.4	3.5	6.0	9.7	6.6	7.5	4.0	2.8	1.6	C01-02
Mouth	59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.1	3.1	2.2	2.8	8.5	4.8	7.8	5.2	2.3	1.3	C03-06
Salivary glands	21	0.0	0.0	0.0	0.4	0.0	0.5	0.0	0.7	0.6	0.7	0.8	1.3	1.6	1.1	3.2	2.3	0.8	0.5	C07-08
Tonsil	34	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.9	2.5	2.2	5.4	1.8	2.5	0.9	1.3	0.8	C09
Other oropharynx	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8	1.7	0.7	1.4	0.7	2.5	2.6	0.7	0.4	C10
Nasopharynx	96	0.0	0.3	0.2	0.2	0.2	0.5	1.2	2.5	3.4	5.3	5.4	8.6	7.9	7.9	10.7	4.0	3.7	2.3	C11
Hypopharynx	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.8	2.9	0.8	3.6	5.5	0.7	2.5	5.6	1.5	0.9	C12-13
Pharynx unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	C14
Oesophagus	115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.1	5.3	6.8	7.3	12.1	12.3	15.3	9.1	4.5	2.5	C15
Stomach	238	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.5	3.4	6.1	8.5	13.3	26.1	26.1	29.8	28.8	8.9	4.8	C16
Small intestine	20	0.0	0.0	0.0	0.0	0.2	0.2	0.0	1.0	1.9	0.2	0.0	1.3	1.6	2.0	2.5	2.6	0.8	0.5	C17
Colon	529	0.0	0.0	0.7	0.9	1.7	1.5	1.6	5.6	8.9	12.3	18.8	25.9	51.3	68.6	66.1	77.5	20.5	11.1	C18
Rectum	492	0.0	0.0	0.0	0.0	0.7	2.2	1.6	4.9	5.5	12.5	16.9	31.9	47.3	69.9	62.1	57.8	19.1	10.2	C19-20
Anus	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.9	0.5	1.3	0.7	2.0	1.8	3.5	0.7	0.4	C21
Liver and bile duct	1535	1.5	0.0	0.0	0.2	0.2	2.0	7.2	23.5	34.3	48.8	69.5	105.3	170.2	170.0	168.7	149.6	59.4	33.2	C22,C24
Gallbladder	45	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	1.5	1.5	1.6	4.5	4.2	4.6	11.0	1.8	0.9	C23
Pancreas	131	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.5	2.1	2.9	3.5	7.3	13.1	17.3	21.0	16.2	5.1	2.7	C25
Nose, sinuses etc.	16	0.0	0.0	0.0	0.0	0.2	0.2	0.2	1.0	0.6	0.7	0.5	0.7	0.5	1.8	3.2	1.4	0.6	0.4	C30-31
Larynx	85	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.2	3.0	2.9	1.7	4.2	9.0	11.0	16.3	7.7	3.3	1.8	C32
Trachea, Bronchus and lung	1485	0.0	0.3	0.0	0.2	0.7	1.1	2.8	5.9	6.6	20.2	32.0	56.9	138.7	210.5	281.6	262.1	57.5	28.9	C33-34
Other thoracic organs	13	0.0	0.0	0.2	0.4	0.0	0.7	0.5	0.2	0.2	0.6	0.6	0.6	0.5	1.8	1.1	0.9	0.5	0.4	C37-38
Bone	24	0.0	0.6	2.2	0.9	0.7	0.7	0.5	0.7	0.2	0.6	0.2	0.7	2.2	0.7	1.8	2.3	0.9	0.8	C40-C41
Melanoma of skin	23	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.8	0.7	2.1	2.0	3.9	5.6	0.9	0.4	C43
Other skin	215	0.0	0.0	0.0	0.0	1.2	0.9	0.9	4.2	3.6	5.3	4.9	6.0	14.9	19.7	28.4	55.5	8.3	4.4	C44
Mesothelioma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.0	0.0	0.0	0.1	0.0	C45
Kaposi's sarcoma	8	0.0	0.0	0.0	0.0	0.0	0.2	2.6	1.5	0.0	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.3	C46
Connective tissue	35	0.0	0.0	0.0	0.0	0.2	0.5	1.0	1.1	2.2	0.8	1.5	4.5	4.8	2.5	2.3	1.3	0.8	C47,C49
Breast	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.5	0.6	0.7	1.8	3.6	1.4	0.5	0.3	C50
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58
Penis	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.1	0.9	1.8	3.4	3.1	2.2	6.0	6.1	1.5	0.8	C60
Prostate	510	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.5	8.6	42.5	71.9	109.7	133.5	19.8	9.2	C61
Testis	21	0.3	0.3	0.2	0.7	0.3	3.1	1.6	2.2	1.1	0.7	0.5	0.1	0.5	0.0	0.4	0.9	0.8	0.8	C62
Other male genital organs	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.4	0.7	0.1	0.0	C63
Kidney	92	1.2	0.0	0.0	0.0	0.0	0.5	0.5	0.7	0.8	2.9	4.2	3.9	9.7	11.4	17.0	8.2	3.6	2.1	C64
Renal pelvis	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.6	0.6	1.4	0.7	1.1	0.7	0.3	0.2	C65
Ureter	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.2	2.2	0.4	0.9	0.3	0.1	C66
Bladder	234	0.3	0.3	0.0	0.0	0.0	0.2	0.2	1.0	1.9	2.2	3.5	7.2	20.2	29.4	34.4	59.7	9.1	4.4	C67
Other urinary organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.0	0.2	0.1	0.0	C68
Eye	4	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	0.4	0.9	0.2	0.2	C69
Brain, nervous system	73	2.7	0.8	2.0	0.7	0.3	0.7	1.4	2.5	2.3	4.2	2.9	3.1	4.1	5.9	8.5	5.6	2.8	2.3	C70-72
Thyroid	59	0.0	0.0	0.0	0.7	0.8	2.0	1.4	3.4	2.5	2.8	2.3	2.4	3.5	4.4	6.0	5.4	2.3	1.6	C73
Adrenal gland	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.2	0.1	1.7	0.7	1.1	0.0	0.3	0.2	C74
Other endocrine	3	0.0	0.0	0.7	0.2	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.2	0.1	0.1	C75
Hodgkin disease	14	0.3	0.3	0.0	0.7	0.2	0.0	0.2	0.2	0.2	0.2	0.5	0.7	1.7	1.1	1.1	1.4	0.6	0.4	C81
Non-Hodgkin lymphoma	309	1.2	1.4	0.9	2.2	2.4	4.2	4.2	8.1	8.9	8.5	11.6	13.0	25.4	34.6	40.5	34.2	12.0	7.5	C82-85,C96
Multiple myeloma	83	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.7	0.6	0.9	1.8	4.0	8.5	15.1	16.3	7.5	3.2	1.7	C90
Lymphoid leukemia	39	7.5	1.7	1.1	1.1	0.3	0.7	1.2	1.0	0.8	0.0	0.5	1.3	2.2	1.8	4.6	2.6	1.5	1.9	C91
Myeloid leukemia	102	2.7	0.6	0.9	1.1	0.7	0.9	2.8	2.2	3.6	2.4	2.6	4.9	8.6	9.2	12.1	11.5	3.9	2.8	C92-94
Leukemia unspecified	23	0.0	0.0	0.7	0.2	0.2	0.0	0.0	0.0	0.6	0.0	0.6	0.4	1.6	0.2	7.1	5.4	0.9	0.5	C95
Myelodysplastic disease	93	3.0	0.0	0.0	0.2	0.2	0.7	1.2	1.5	4.0	2.0	3.4	3.9	7.1	7.0	12.8	15.2	3.6	2.3	D45-D47
Other and unspecified	178	0.3	0.3	0.0	0.2	0.2	1.5	2.6	3.4	4.0	2.9	5.4	9.2	13.8	22.1	21.0	29.0	6.9	3.8	O&U
All sites	**7,284**	**22.2**	**7.0**	**9.8**	**11.1**	**11.5**	**25.7**	**42.1**	**91.5**	**117.1**	**175.9**	**230.3**	**360.8**	**696.8**	**870.1**	**1,052.2**	**1,051.3**	**282.1**	**155.8**	**ALL**

Table 4.1.2 Health Regions 1 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.1	0.9	0.6	0.9	1.7	0.3	0.1	C00
Tongue	39	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.2	0.8	2.2	1.4	1.9	2.8	5.7	0.3	2.8	1.4	0.9	C01-02
Mouth	43	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.6	0.5	1.2	1.7	3.6	2.8	7.6	6.9	1.6	0.7	C03-06
Salivary glands	22	0.0	0.0	0.2	0.2	0.2	0.0	1.0	1.0	1.0	0.0	1.2	1.3	1.9	1.0	1.6	1.7	0.8	0.5	C07-08
Tonsil	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.7	0.5	0.5	0.9	0.2	0.0	0.6	0.3	0.2	C09
Other oropharynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.5	0.0	0.0	0.0	0.1	0.0	C10
Nasopharynx	52	0.0	0.0	0.0	0.6	0.3	0.2	2.5	2.2	2.2	4.2	1.2	1.7	4.7	3.4	2.2	3.7	1.9	1.3	C11
Hypopharynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.6	0.1	0.0	C12-13
Pharynx unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	C14
Oesophagus	26	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.6	0.7	0.4	1.3	3.3	1.0	2.2	4.4	1.0	0.5	C15
Stomach	204	0.0	0.0	0.0	0.0	0.0	1.3	3.9	7.5	3.7	8.1	6.7	8.6	17.1	19.4	20.2	20.6	7.5	4.3	C16
Small intestine	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	1.5	1.3	3.8	2.2	1.7	0.7	0.3	C17
Colon	488	0.0	0.0	0.0	0.2	0.2	1.1	2.7	8.7	5.9	11.1	14.2	21.3	48.8	52.9	52.1	58.4	18.0	9.1	C18
Rectum	318	0.0	0.0	0.0	0.0	0.9	1.1	2.0	2.5	4.3	9.1	12.6	19.4	28.1	34.4	36.3	27.8	11.8	6.1	C19-20
Anus	12	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.8	0.7	0.4	0.4	0.9	1.6	0.9	0.9	0.5	0.3	C21
Liver and bile duct	662	0.9	0.0	0.2	0.2	0.2	0.4	1.0	5.0	5.9	14.8	15.5	30.6	59.7	70.7	88.7	90.3	24.5	11.9	C22,C24
Gallbladder	64	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.6	0.2	1.5	2.5	5.1	6.1	11.7	10.6	2.4	1.1	C23
Pancreas	124	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0	2.2	2.7	5.9	9.8	14.8	16.4	19.1	4.6	2.1	C25
Nose, sinuses etc.	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.5	0.5	0.5	0.9	0.6	0.9	2.4	0.5	0.2	C30-31
Larynx	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.6	3.2	0.6	0.3	0.2	C32
Trachea, Bronchus and lung	1067	0.0	0.0	0.2	0.0	0.2	1.1	1.0	6.0	10.8	16.2	23.1	40.5	79.5	113.8	174.9	171.3	39.4	18.5	C33-34
Other thoracic organs	12	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.7	0.2	0.0	0.5	0.9	1.4	0.6	0.9	0.2	0.4	0.3	C37-38
Bone	23	0.9	0.3	0.9	0.6	0.2	1.3	0.2	0.0	1.0	0.7	0.4	0.9	2.8	0.2	0.3	1.7	0.8	0.7	C40-C41
Melanoma of skin	23	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.6	0.2	0.5	1.2	2.1	1.8	0.9	5.0	0.9	0.4	C43
Other skin	248	0.0	0.0	0.0	0.6	0.9	0.4	1.0	2.0	1.0	2.5	4.0	6.7	13.4	20.0	22.7	68.2	9.2	4.0	C44
Mesothelioma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	C45
Kaposi's sarcoma	1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	36	0.9	0.6	0.0	0.0	0.2	0.0	0.2	1.0	0.8	1.7	1.9	2.5	1.3	3.8	3.2	2.4	1.3	0.9	C47,C49
Breast	1709	0.0	0.0	0.0	0.0	1.2	5.9	22.3	56.0	72.9	92.8	94.9	108.7	145.2	136.5	118.7	69.7	63.1	38.0	C50
Vulva	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5	0.1	1.2	3.5	2.8	2.2	2.4	0.9	0.4	C51
Vagina	10	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.5	0.1	0.1	1.3	0.0	2.2	1.7	0.4	0.2	C52
Cervix uteri	524	0.0	0.0	0.0	0.0	0.7	6.5	22.3	30.6	26.4	27.4	27.2	33.0	35.1	26.5	29.4	24.1	19.4	12.9	C53
Corpus uteri	290	0.0	0.0	0.0	0.0	0.0	0.9	4.7	3.5	4.9	8.1	15.2	23.5	32.7	29.4	22.7	8.7	10.7	5.9	C54
Uterus unspecified	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.5	1.5	0.1	0.9	0.0	0.0	0.6	0.4	0.2	C55
Ovary	220	0.0	0.6	2.1	3.0	2.1	2.8	0.2	6.7	7.7	9.8	10.3	15.0	15.8	19.6	16.7	8.3	8.1	5.2	C56
Other female genital organs	20	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.5	1.4	0.5	2.8	3.8	0.9	0.2	0.7	0.4	C57
Placenta	4	0.0	0.0	0.0	0.0	0.2	0.2	0.7	0.2	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	C58
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63
Kidney	46	0.3	0.0	0.0	0.0	0.2	0.0	1.0	0.2	0.8	1.0	2.3	2.7	2.8	4.3	3.2	6.7	1.7	0.9	C64
Renal pelvis	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.4	0.2	0.0	2.2	1.3	0.2	0.1	C65
Ureter	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	1.6	0.9	2.8	0.4	0.1	C66
Bladder	84	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.7	0.2	0.7	1.4	3.3	5.7	10.9	10.7	15.6	3.1	1.4	C67
Other urinary organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.0	0.0	0.0	0.0	C68
Eye	7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.0	0.2	0.0	1.7	0.2	0.2	C69
Brain, nervous system	92	1.6	1.4	0.9	1.0	0.2	0.7	2.7	4.5	4.3	3.2	2.3	3.7	5.7	8.7	9.2	5.2	3.4	2.5	C70-72
Thyroid	241	0.3	0.0	0.2	1.3	4.3	7.0	15.9	14.9	12.2	10.9	10.3	12.4	15.5	9.3	11.0	9.5	8.9	6.6	C73
Adrenal gland	3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.1	0.2	0.2	0.3	0.0	0.1	0.1	C74
Other endocrine	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	12	0.3	0.3	0.9	0.6	0.0	0.4	2.0	0.0	0.0	0.0	0.4	0.5	0.2	0.6	1.6	0.2	0.4	0.5	C81
Non-Hodgkin lymphoma	256	0.3	0.6	0.7	1.3	1.2	0.4	4.2	3.7	5.1	8.1	9.3	15.1	19.8	22.7	28.4	24.5	9.5	5.3	C82-85,C96
Multiple myeloma	61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.5	2.3	2.7	6.8	7.1	7.9	6.9	2.3	1.1	C90
Lymphoid leukemia	24	5.0	1.7	0.2	0.2	0.3	0.0	0.0	0.0	0.8	0.2	1.2	1.3	1.3	1.0	1.6	0.9	0.9	1.1	C91
Myeloid leukemia	81	0.0	0.3	0.9	1.0	0.9	0.2	2.0	5.5	2.6	1.0	2.5	4.1	5.5	8.1	3.8	7.8	3.0	1.9	C92-94
Leukemia unspecified	12	0.0	0.3	0.0	0.2	0.2	0.2	0.2	0.0	0.8	0.2	0.1	0.5	0.2	0.6	2.2	2.0	0.5	0.3	C95
Myelodysplastic disease	108	2.5	0.3	0.2	0.0	0.0	0.4	1.0	2.2	2.2	2.9	3.6	3.7	4.7	10.3	14.5	16.5	4.0	2.3	D45-D47
Other and unspecified	177	0.3	0.0	0.0	0.2	0.3	0.4	1.0	3.7	3.0	2.4	4.2	9.0	13.3	21.1	20.8	23.0	6.5	3.3	O&U
All sites	**7,562**	**14.4**	**6.6**	**7.9**	**11.1**	**15.2**	**33.9**	**98.4**	**174.1**	**189.0**	**249.2**	**283.2**	**395.6**	**611.1**	**687.3**	**761.7**	**743.8**	**279.3**	**155.8**	**ALL**

4.2 Health Regions 2

Health Regions 2 is located in the northern part of Thailand, consists of 5 provinces : Uttaradit, Tak, Sukhothai, Phitsanulok and Phetchabun. The estimated population in 2020 was 3,227,600 with 1,560,100 males and 1,667,500 females. New cases were registered in 2020; 4,210 were males and 4,899 were females, making 9,109 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 150.3 per 100,000, with liver and bile duct ranking first (ASR = 32.2) followed by trachea, bronchus and lung (ASR = 28.6) and colon and rectum (ASR = 21.2). The ASR of all cancer in females was 157.8 per 100,000, the three leading sites being breast (ASR = 38.4) followed by trachea, bronchus and lung (ASR = 19.3) and colon and rectum (ASR = 16.0).

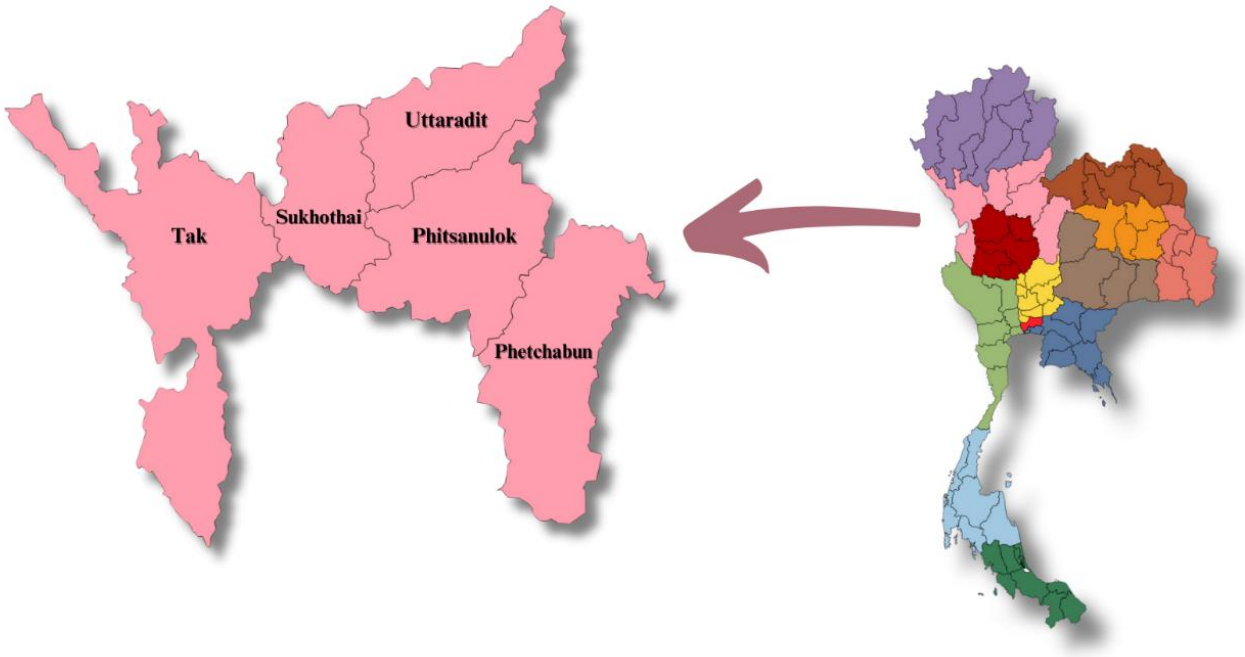
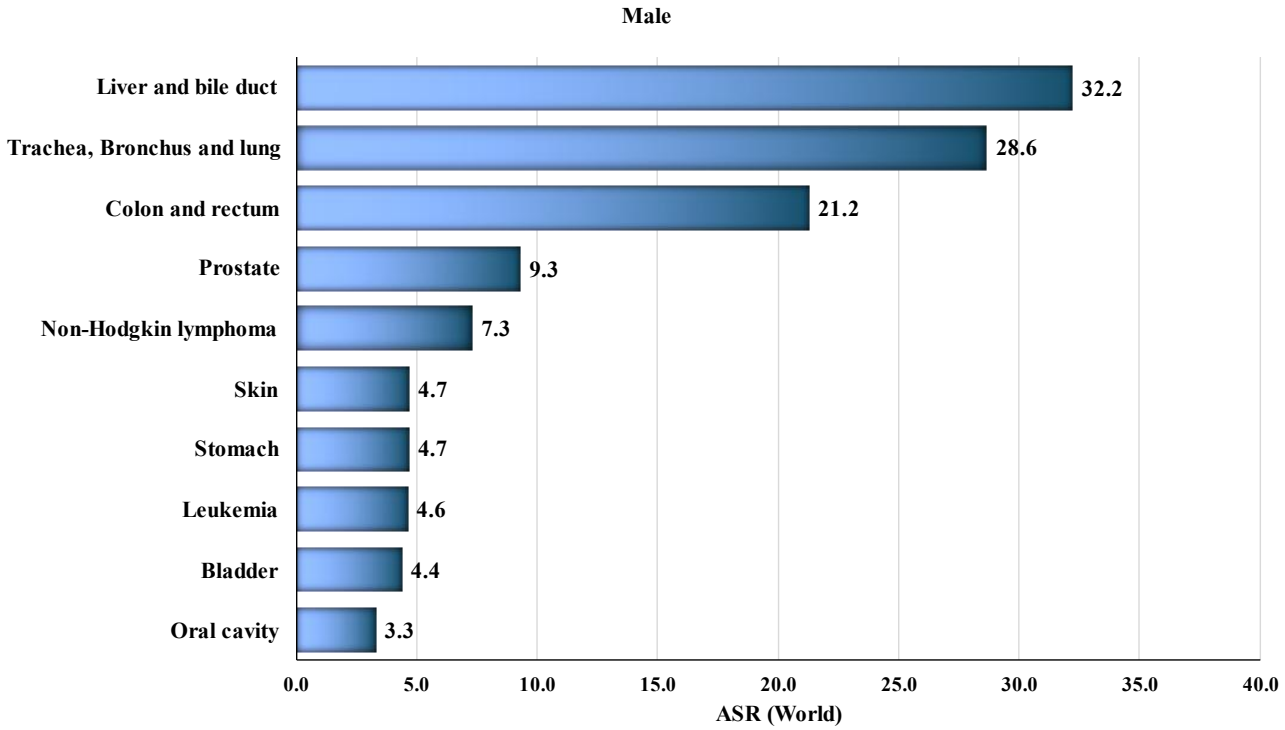


Figure 4.2.1 Leading cancer in Health Regions 2 (mean annual ASR 2019-2021)



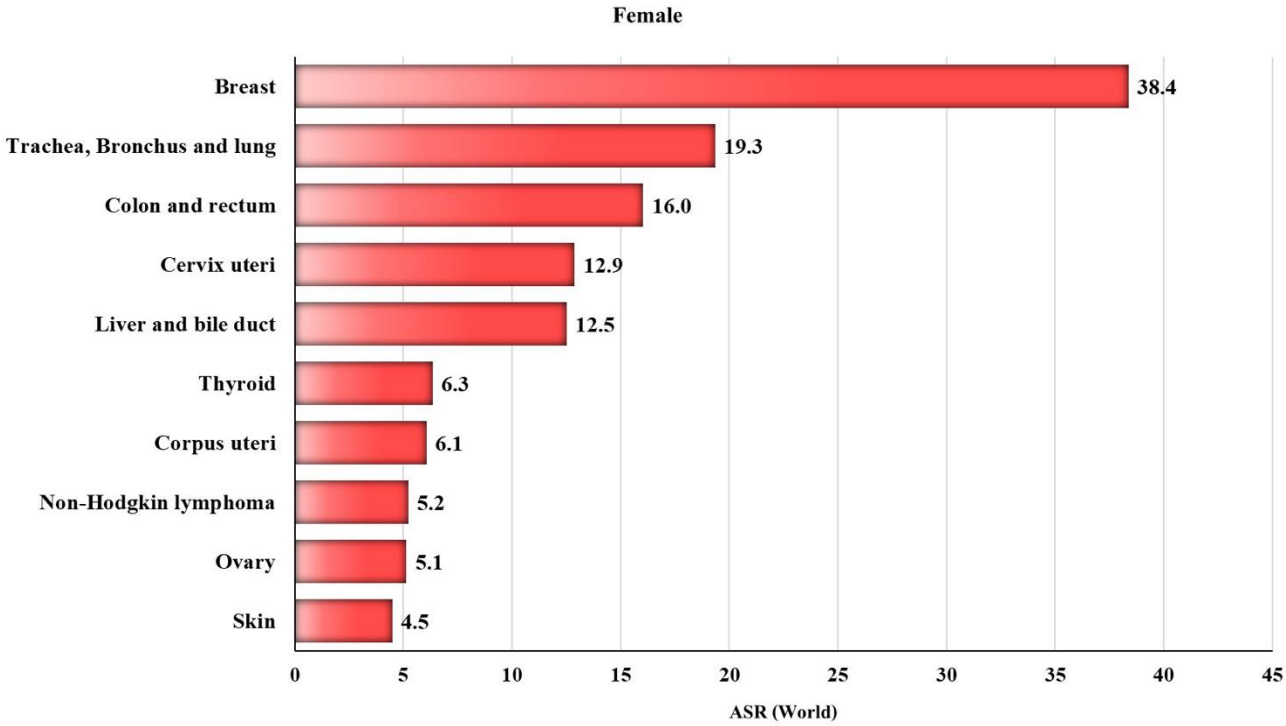


Table 4.2.1 Health Regions 2 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group – Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	C00
Tongue	42	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.1	1.7	2.3	3.0	5.4	9.9	6.9	7.7	4.0	2.7	1.6	C01-02
Mouth	35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.0	2.6	2.1	2.7	9.0	5.2	7.7	4.8	2.2	1.3	C03-06
Salivary glands	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.7	0.9	1.1	1.7	1.4	3.3	2.2	0.7	0.4	C07-08
Tonsil	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.6	2.4	2.2	5.4	1.7	2.2	0.9	1.2	0.8	C09
Other oropharynx	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.5	0.8	1.4	0.7	2.2	2.6	0.6	0.4	C10
Nasopharynx	53	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.7	2.8	5.0	4.4	7.9	8.2	8.6	10.5	4.0	3.4	2.1	C11
Hypopharynx	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0	2.6	0.9	3.0	5.6	0.7	2.2	4.8	1.4	0.8	C12-13
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C14
Oesophagus	67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.7	5.0	5.9	6.8	13.0	12.7	15.5	8.8	4.3	2.5	C15
Stomach	133	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.7	2.8	5.0	7.7	12.2	27.3	27.5	29.8	27.7	8.5	4.7	C16
Small intestine	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.7	0.0	0.0	1.1	1.7	2.4	2.2	2.6	0.7	0.5	C17
Colon	308	0.0	0.0	0.3	0.9	1.8	1.4	1.6	5.7	8.6	10.6	16.6	23.6	53.8	72.5	66.3	74.6	19.8	10.9	C18
Rectum	286	0.0	0.0	0.0	0.0	0.3	2.4	1.6	4.9	5.2	10.9	14.8	29.1	49.3	73.6	62.4	54.9	18.3	10.0	C19-20
Anus	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.0	0.0	1.1	0.8	2.4	2.2	3.5	0.7	0.4	C21
Liver and bile duct	884	1.5	0.0	0.0	0.0	0.0	1.7	5.9	22.8	32.0	42.3	61.4	96.2	178.2	178.8	169.5	144.0	56.7	32.2	C22,C24
Gallbladder	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.5	1.6	4.5	3.8	4.4	11.0	1.6	0.8	C23
Pancreas	78	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.9	1.7	2.6	3.0	6.8	13.8	18.6	21.0	15.8	5.0	2.7	C25
Nose, sinuses etc.	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.7	0.0	0.8	0.6	1.7	3.3	1.8	0.5	0.3	C30-31
Larynx	51	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	2.8	2.6	1.5	4.1	9.6	11.7	16.6	7.5	3.3	1.8	C32
Trachea, Bronchus and lung	875	0.0	0.0	0.0	0.0	0.3	1.4	2.8	5.7	5.9	17.2	27.9	51.6	144.9	221.7	283.3	251.5	56.1	28.6	C33-34
Other thoracic organs	6	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.6	0.5	0.6	1.7	1.1	0.9	0.4	0.2	C37-38
Bone	12	0.0	0.0	1.9	0.9	0.3	0.7	0.0	0.8	0.0	0.0	0.0	0.8	2.3	0.7	2.2	2.2	0.8	0.6	C40-C41
Melanoma of skin	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.8	2.3	2.4	4.4	4.8	0.9	0.4	C43
Other skin	122	0.0	0.0	0.0	0.0	1.2	0.7	0.8	3.8	3.4	5.0	4.4	5.4	15.2	21.0	28.7	53.1	7.8	4.2	C44
Mesothelioma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	4	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.9	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	C46
Connective tissue	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0	2.3	0.9	1.4	4.5	5.2	2.2	2.2	1.3	0.8	C47,C49
Breast	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.5	0.8	1.7	3.9	1.8	0.5	0.3	C50
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58
Penis	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.0	1.0	2.1	3.0	3.1	2.4	6.1	5.7	1.5	0.8	C60
Prostate	302	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.4	7.9	44.3	75.6	109.9	128.2	19.4	9.3	C61
Testis	9	0.0	0.0	0.0	0.6	0.0	2.4	1.6	2.3	1.0	0.7	0.0	0.0	0.6	0.0	0.0	0.9	0.6	0.6	C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63
Kidney	53	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.0	2.6	3.3	3.5	9.9	12.0	17.1	7.9	3.4	2.0	C64
Renal pelvis	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.5	1.4	0.7	1.1	0.0	0.3	0.2	C65
Ureter	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	2.4	0.0	0.9	0.3	0.1	C66
Bladder	137	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.7	2.3	3.0	6.8	21.4	30.9	35.3	57.1	8.8	4.4	C67
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C68
Eye	2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.9	0.1	0.1	C69
Brain, nervous system	41	2.3	0.0	1.5	0.6	0.0	0.7	1.6	2.7	2.4	3.3	2.4	3.0	4.2	6.5	8.3	4.8	2.6	2.0	C70-72
Thyroid	32	0.0	0.0	0.0	0.6	0.6	1.7	1.6	3.0	2.4	2.3	2.1	2.2	3.1	4.5	6.1	4.8	2.1	1.5	C73
Adrenal gland	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	2.0	0.7	1.1	0.0	0.3	0.2	C74
Other endocrine	0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	7	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0	1.4	1.1	1.8	0.5	0.3	C81
Non-Hodgkin lymphoma	180	1.5	0.7	0.9	2.1	2.1	3.8	3.2	8.4	8.6	7.6	10.1	12.0	26.8	36.4	40.9	32.5	11.5	7.3	C82-85,C96
Multiple myeloma	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.0	2.1	3.8	9.0	15.8	16.6	7.5	3.2	1.7	C90
Lymphoid leukemia	23	6.5	0.7	1.2	1.2	0.0	0.7	1.2	1.1	1.0	0.0	0.0	1.1	2.3	1.7	4.4	2.6	1.5	1.7	C91
Myeloid leukemia	59	2.3	0.0	0.9	1.2	0.3	0.7	2.8	2.3	3.4	2.3	2.4	4.3	9.3	9.6	11.6	11.0	3.8	2.6	C92-94
Leukemia unspecified	10	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.7	0.0	6.1	4.8	0.7	0.3	C95
Myelodysplastic disease	53	2.7	0.0	0.0	0.0	0.0	0.7	1.2	1.9	3.4	1.7	3.0	3.5	7.3	7.2	13.3	14.9	3.4	2.2	D45-D47
Other and unspecified	100	0.0	0.0	0.0	0.0	0.0	1.4	2.0	3.0	3.4	2.6	4.4	8.4	14.4	23.0	21.0	27.7	6.4	3.6	O&U
All sites	**4,210**	**19.1**	**1.4**	**7.4**	**8.9**	**6.9**	**21.0**	**35.7**	**92.7**	**104.0**	**153.5**	**200.5**	**329.3**	**728.2**	**916.1**	**1,054.7**	**1,006.6**	**269.9**	**150.3**	**ALL**

Table 4.2.2 Health Regions 2 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group – Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.9	1.4	1.5	0.3	0.1	C00
Tongue	26	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.7	1.0	2.1	1.3	1.9	3.1	6.2	0.0	3.3	1.6	1.0	C01-02
Mouth	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.0	1.9	4.1	3.2	8.3	6.8	1.7	0.7	C03-06
Salivary glands	14	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.1	1.0	0.0	1.0	1.6	2.2	1.2	1.8	1.5	0.8	0.5	C07-08
Tonsil	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.5	0.7	1.0	0.0	0.0	0.6	0.3	0.2	C09
Other oropharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.1	0.0	C10
Nasopharynx	32	0.0	0.0	0.0	0.3	0.0	0.0	2.4	2.7	2.3	3.9	1.0	1.9	5.1	3.8	2.3	3.6	1.9	1.3	C11
Hypopharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	C12-13
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C14
Oesophagus	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.9	0.0	1.6	3.6	1.2	2.3	4.2	1.0	0.5	C15
Stomach	133	0.0	0.0	0.0	0.0	0.0	1.1	3.7	8.0	3.3	7.5	6.2	8.6	18.8	21.8	21.2	21.1	8.0	4.3	C16
Small intestine	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.2	4.4	2.3	1.5	0.7	0.3	C17
Colon	325	0.0	0.0	0.0	0.0	0.0	0.7	2.9	9.1	5.6	10.2	13.5	21.3	53.9	59.4	55.9	60.0	19.5	9.5	C18
Rectum	208	0.0	0.0	0.0	0.0	0.6	0.7	2.0	2.7	3.6	8.7	11.9	19.4	30.8	38.8	38.8	28.5	12.5	6.2	C19-20
Anus	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.9	0.0	0.5	1.0	2.1	1.4	1.2	0.5	0.3	C21
Liver and bile duct	446	1.6	0.0	0.0	0.0	0.0	0.0	0.8	5.3	5.6	14.1	14.8	30.9	65.9	79.7	95.2	93.0	26.7	12.5	C22,C24
Gallbladder	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.6	2.6	5.5	6.5	12.5	11.3	2.6	1.1	C23
Pancreas	83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1	2.6	6.1	10.6	16.8	17.6	19.3	5.0	2.2	C25
Nose, sinuses etc.	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.5	0.7	1.0	0.9	1.4	2.4	0.5	0.3	C30-31
Larynx	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	2.1	3.7	0.6	0.5	0.2	C32
Trachea, Bronchus and lung	720	0.0	0.0	0.0	0.0	0.0	0.7	0.8	6.1	9.8	15.6	21.8	40.9	87.8	127.9	187.1	176.2	43.2	19.3	C33-34
Other thoracic organs	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.5	0.9	1.7	0.9	1.4	0.0	0.4	0.2	C37-38
Bone	13	1.6	0.0	1.3	0.3	0.0	1.1	0.0	0.0	1.0	0.9	0.0	0.9	3.1	0.0	0.0	1.5	0.8	0.7	C40-C41
Melanoma of skin	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.5	1.2	2.4	2.4	1.4	5.3	1.0	0.4	C43
Other skin	164	0.0	0.0	0.0	0.3	0.6	0.0	0.8	1.9	1.0	2.4	3.9	6.8	14.9	22.3	24.5	70.1	9.8	4.1	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	23	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0	1.5	1.8	2.6	1.2	4.4	3.7	2.4	1.4	0.9	C47,C49
Breast	1079	0.0	0.0	0.0	0.0	0.6	4.2	21.6	57.9	67.8	87.7	90.1	109.4	160.2	153.7	127.0	71.3	64.7	38.4	C50
Vulva	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.6	3.2	2.3	2.4	0.9	0.4	C51
Vagina	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	2.3	1.5	0.3	0.1	C52
Cervix uteri	324	0.0	0.0	0.0	0.0	0.3	5.0	21.6	31.6	24.9	26.1	25.4	33.4	38.7	30.0	31.9	25.0	19.4	12.9	C53
Corpus uteri	188	0.0	0.0	0.0	0.0	0.0	0.7	4.5	3.8	4.9	7.5	14.2	23.8	35.8	33.2	24.5	8.9	11.3	6.1	C54
Uterus unspecified	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.6	0.0	1.0	0.0	0.0	0.6	0.3	0.2	C55
Ovary	138	0.0	0.0	2.0	2.5	1.9	2.5	0.0	7.2	7.2	9.0	9.6	15.0	17.3	22.0	18.0	8.9	8.3	5.1	C56
Other female genital organs	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.7	3.1	4.4	1.4	0.0	0.8	0.4	C57
Placenta	2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C58
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63
Kidney	29	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.0	0.9	2.1	2.6	3.1	4.4	3.7	6.8	1.7	0.8	C64
Renal pelvis	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	2.3	1.2	0.2	0.1	C65
Ureter	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	1.4	3.3	0.4	0.2	C66
Bladder	58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.9	1.3	3.5	6.5	12.3	11.5	16.3	3.5	1.5	C67
Other urinary organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.1	0.0	C68
Eye	4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	1.5	0.2	0.3	C69
Brain, nervous system	60	2.0	1.5	1.3	0.6	0.0	0.0	2.9	4.6	3.6	3.0	2.1	3.7	6.5	10.0	10.2	5.6	3.6	2.5	C70-72
Thyroid	144	0.0	0.0	0.0	1.2	2.9	5.0	15.5	16.0	11.1	10.2	9.6	12.6	17.1	10.6	12.0	9.8	8.6	6.3	C73
Adrenal gland	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C74
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	7	0.0	0.0	1.3	0.3	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.7	0.0	0.9	1.8	0.0	0.4	0.4	C81
Non-Hodgkin lymphoma	165	0.0	0.0	0.7	1.2	0.6	0.0	4.1	3.8	4.9	7.5	8.8	15.2	21.9	25.6	30.0	25.0	9.9	5.2	C82-85,C96
Multiple myeloma	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	2.1	2.6	7.5	8.2	8.8	6.8	2.4	1.1	C90
Lymphoid leukemia	16	4.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.6	1.2	1.2	1.8	1.2	0.9	1.1	C91
Myeloid leukemia	52	0.0	0.0	1.3	0.6	0.6	0.0	2.0	5.7	2.3	0.9	2.3	4.4	6.3	8.8	3.7	8.0	3.1	1.9	C92-94
Leukemia unspecified	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.7	0.0	0.9	2.3	2.4	0.4	0.2	C95
Myelodysplastic disease	71	2.4	0.0	0.0	0.0	0.0	0.0	0.8	2.7	2.3	3.0	3.4	3.7	5.1	11.5	15.2	17.2	4.2	2.3	D45-D47
Other and unspecified	118	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.8	2.9	2.4	3.9	8.9	14.9	24.1	22.2	24.1	7.1	3.4	O&U
All sites	**4,899**	**15.8**	**3.0**	**7.8**	**7.5**	**8.3**	**21.6**	**93.2**	**179.4**	**177.3**	**232.5**	**263.1**	**400.2**	**672.0**	**774.5**	**818.5**	**764.1**	**293.8**	**157.8**	**ALL**

4.3 Health Regions 3

Health Regions 3 is located in the central and northern part of Thailand, consists of 5 provinces : Kamphaeng Phet, Phichit, Chai Nat, Nakhon Sawan and Uthai Thani. The estimated population in 2020 was 2,842,966 with 1,364,833 males and 1,478,133 females. New cases were registered in 2020; 4,166 were males and 4,107 were females, making 8,273 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 151.0 per 100,000, with liver and bile duct ranking first (ASR = 29.7) followed by trachea, bronchus and lung (ASR = 24.2) and colon and rectum (ASR = 23.9). The ASR of all cancer in females was 157.2 per 100,000, the three leading sites being breast (ASR = 42.0) followed by colon and rectum (ASR = 16.2) and cervix uteri cancer (ASR = 14.4).

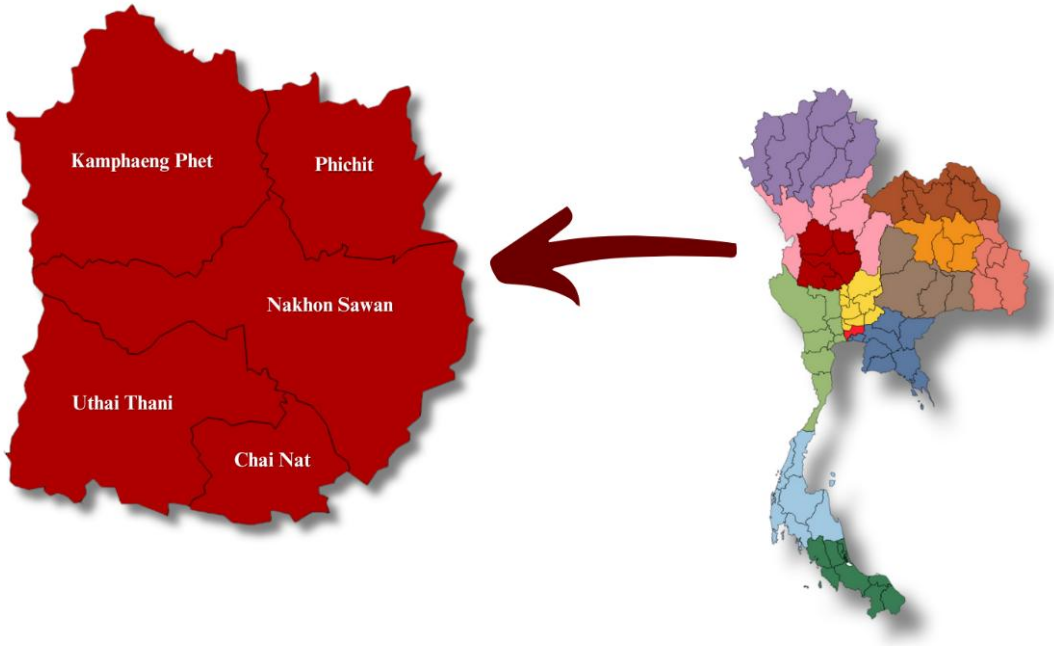


Figure 4.3.1 Leading cancer in Health Regions 3 (mean annual ASR 2019-2021)

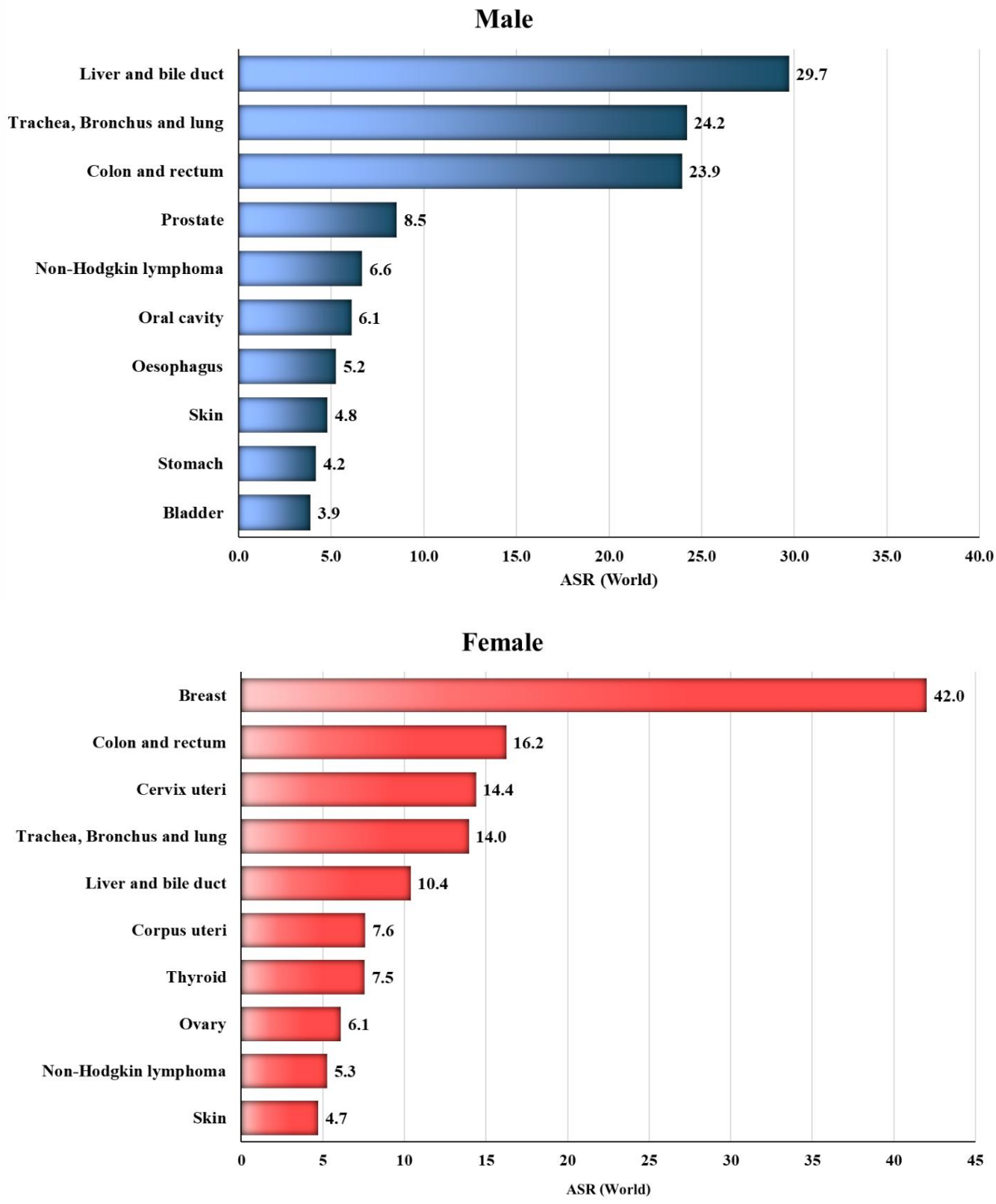


Table 4.3.1 Health Regions 3 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group – Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	2.3	0.1	0.1	C00
Tongue	68	0.0	0.0	0.0	0.0	0.4	0.4	1.8	2.6	3.9	6.6	7.5	10.6	11.2	13.3	13.5	6.0	5.0	3.0	C01-02
Mouth	54	0.0	0.0	0.0	0.4	0.8	0.4	0.0	2.6	3.9	4.8	4.8	8.5	10.6	7.2	9.4	7.9	3.9	2.4	C03-06
Salivary glands	16	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	1.8	0.7	1.8	2.5	2.7	3.5	4.2	1.1	0.7	C07-08
Tonsil	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	3.7	4.4	6.9	5.0	4.6	1.8	2.3	2.1	1.3	C09
Other oropharynx	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.6	2.2	2.4	3.9	2.2	2.3	4.1	2.3	1.4	0.8	C10
Nasopharynx	45	0.0	0.0	0.0	0.0	0.8	0.4	1.8	1.7	5.0	3.7	5.8	6.0	7.5	6.8	8.2	4.2	3.3	2.1	C11
Hypopharynx	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.5	5.5	4.4	6.6	8.1	5.3	6.4	6.0	3.1	1.8	C12-13
Pharynx unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.4	0.0	0.0	0.1	0.1	C14
Oesophagus	128	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5.4	11.0	14.9	22.7	24.6	25.8	21.7	16.2	9.4	5.2	C15
Stomach	106	0.0	0.0	0.0	0.7	0.0	0.0	2.2	1.7	1.6	7.0	7.5	10.9	20.6	20.9	25.2	29.2	7.8	4.2	C16
Small intestine	9	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	1.2	0.4	1.4	0.9	0.9	2.7	1.8	0.9	0.7	0.4	C17
Colon	347	0.0	0.0	0.0	0.4	1.2	3.9	2.7	6.6	8.9	12.9	20.7	38.4	66.7	81.7	81.3	88.5	25.4	13.4	C18
Rectum	258	0.0	0.0	0.0	0.0	0.4	0.8	2.2	6.6	10.1	14.0	17.3	34.4	46.8	61.6	60.9	48.6	18.9	10.2	C19-20
Anus	7	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.7	0.0	0.7	0.0	0.9	0.6	0.8	1.2	2.3	0.5	0.3	C21
Liver and bile duct	726	0.9	0.4	0.0	0.7	0.4	2.3	6.2	18.8	34.2	49.7	63.8	96.7	145.3	154.7	138.1	124.1	53.2	29.7	C22,C24
Gallbladder	19	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	1.1	1.0	2.1	3.7	2.3	5.3	6.9	1.4	0.7	C23
Pancreas	72	0.0	0.0	0.0	0.0	0.0	0.4	1.3	0.9	2.3	3.3	4.8	8.2	12.5	17.1	21.7	14.4	5.3	2.8	C25
Nose, sinuses etc.	11	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.9	0.4	0.7	0.3	0.9	3.1	1.1	3.5	1.4	0.8	0.5	C30-31
Larynx	54	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	2.7	4.8	3.7	7.9	9.7	11.8	12.9	9.3	4.0	2.2	C32
Trachea, Bronchus and lung	663	0.0	0.0	0.0	0.0	0.4	1.6	4.5	7.0	10.1	21.0	29.9	55.0	115.7	160.4	204.2	214.0	48.6	24.2	C33-34
Other thoracic organs	11	0.0	0.0	0.0	0.4	0.4	0.8	0.4	0.0	1.6	1.5	1.4	0.6	1.9	1.1	1.2	1.9	0.8	0.6	C37-38
Bone	19	0.0	0.0	2.2	2.2	2.0	2.0	0.0	0.4	0.4	1.5	0.3	1.8	2.8	2.3	1.8	2.3	1.4	1.2	C40-C41
Melanoma of skin	13	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	1.6	0.4	0.7	0.6	1.2	2.7	2.3	5.6	0.9	0.5	C43
Other skin	107	0.0	0.0	0.0	0.4	1.2	2.0	2.2	4.8	3.5	3.3	7.1	9.4	13.4	17.1	22.8	45.9	7.8	4.3	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	2	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	C46
Connective tissue	24	0.0	0.4	0.4	0.0	0.4	0.8	0.4	2.6	1.2	2.9	3.7	1.8	2.5	3.8	3.5	3.2	1.7	1.2	C47,C49
Breast	9	0.0	0.0	0.0	0.0	0.0	0.4	1.3	0.4	0.0	0.4	0.0	1.8	1.9	1.1	2.3	1.4	0.7	0.4	C50
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58
Penis	23	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.4	1.2	2.6	1.0	3.0	2.8	3.4	7.6	5.6	1.7	1.0	C60
Prostate	257	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.8	4.1	8.8	36.5	66.5	94.2	125.1	18.8	8.5	C61
Testis	11	0.0	0.4	0.0	0.4	0.4	2.0	2.2	2.6	1.2	1.8	0.0	0.3	0.6	0.4	0.6	0.9	0.8	0.8	C62
Other male genital organs	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	1.4	0.0	0.0	0.0	0.0	0.5	0.1	0.1	C63
Kidney	42	0.9	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.8	1.5	3.1	4.2	9.0	9.1	14.0	8.3	3.1	1.7	C64
Renal pelvis	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.9	0.4	0.6	0.5	0.2	0.1	C65
Ureter	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.1	0.6	0.9	0.2	0.1	C66
Bladder	109	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.9	1.2	3.3	2.7	8.2	17.8	21.7	30.4	50.9	8.0	3.9	C67
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C68
Eye	3	0.5	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.4	0.6	0.9	0.2	0.2	C69
Brain, nervous system	38	1.4	1.7	0.7	0.7	0.4	0.8	3.6	1.7	2.7	3.7	3.7	3.6	3.4	4.6	6.4	6.0	2.8	2.1	C70-72
Thyroid	29	0.0	0.0	0.0	0.4	0.8	0.8	1.3	3.9	4.7	1.5	2.4	3.0	2.8	3.8	5.3	4.6	2.1	1.5	C73
Adrenal gland	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.3	1.2	0.4	0.6	0.0	0.2	0.1	C74
Other endocrine	1	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.0	0.0	0.6	0.0	0.1	0.1	C75
Hodgkin disease	7	0.0	0.0	0.0	0.7	0.4	0.4	1.3	0.4	0.4	0.4	0.0	0.6	0.9	1.1	1.2	0.9	0.5	0.4	C81
Non-Hodgkin lymphoma	143	0.9	0.9	0.7	1.1	3.9	6.6	5.8	7.0	7.0	6.3	9.2	12.1	20.6	29.3	32.8	29.2	10.5	6.6	C82-85,C96
Multiple myeloma	26	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.7	0.7	2.7	5.9	7.2	8.2	5.1	1.9	1.0	C90
Lymphoid leukemia	13	3.2	0.9	0.7	0.7	0.0	0.4	0.4	0.4	0.8	0.0	0.3	0.6	2.5	1.1	2.3	0.9	0.9	1.0	C91
Myeloid leukemia	42	0.9	0.0	0.4	2.2	0.4	1.2	1.3	3.1	3.5	1.5	2.4	3.6	7.5	6.1	8.2	7.9	3.1	2.1	C92-94
Leukemia unspecified	13	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.0	0.4	0.4	0.3	0.0	1.9	1.9	6.4	4.2	0.9	0.5	C95
Myelodysplastic disease	22	1.4	0.0	0.0	0.0	0.0	0.4	0.4	0.9	1.9	0.7	1.4	1.5	3.4	3.4	5.3	6.0	1.6	1.0	D45-D47
Other and unspecified	94	0.0	0.0	0.0	0.7	0.4	2.7	1.3	1.7	5.4	4.8	8.5	11.2	12.8	19.0	19.3	24.5	6.9	3.9	O&U
All sites	**3,744**	**9.9**	**4.7**	**5.1**	**12.7**	**16.4**	**33.2**	**50.4**	**88.2**	**138.3**	**197.0**	**250.2**	**405.4**	**652.6**	**792.5**	**903.5**	**934.2**	**274.3**	**151.0**	**ALL**

Table 4.3.2 Health Regions 3 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group – Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	7	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	1.0	3.8	0.5	0.2	C00
Tongue	27	0.0	0.0	0.0	0.0	1.6	0.4	0.9	0.9	2.2	2.3	1.7	2.8	1.6	4.7	4.8	3.5	1.8	1.1	C01-02
Mouth	33	0.0	0.0	0.0	0.0	0.0	2.0	1.9	2.2	1.5	0.3	0.9	2.3	4.0	3.5	5.8	9.7	2.3	1.2	C03-06
Salivary glands	16	0.0	0.0	0.0	0.0	1.6	0.4	2.4	1.8	0.7	0.3	2.0	1.5	1.3	0.9	1.4	2.2	1.1	0.8	C07-08
Tonsil	5	0.0	0.0	0.0	0.0	0.4	0.0	1.9	0.4	0.4	0.3	0.3	0.5	0.5	0.0	0.0	0.3	0.3	0.3	C09
Other oropharynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.0	0.5	0.3	0.1	0.1	C10
Nasopharynx	23	0.0	0.0	0.0	0.0	0.0	0.0	3.8	1.3	1.1	3.3	0.9	2.0	2.6	2.8	3.4	2.5	1.6	1.0	C11
Hypopharynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1	0.0	0.0	0.0	0.5	0.3	0.2	0.1	C12-13
Pharynx unspecified	0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C14
Oesophagus	22	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.4	0.7	0.3	1.5	2.9	3.8	3.8	7.2	1.5	0.7	C15
Stomach	93	0.0	0.0	0.0	0.0	0.0	1.2	1.4	5.3	4.4	5.0	5.1	9.4	11.3	14.6	16.4	17.3	6.3	3.3	C16
Small intestine	14	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.4	0.3	0.3	1.5	1.8	3.5	3.4	2.2	0.9	0.4	C17
Colon	316	0.0	0.0	0.0	0.0	2.4	0.8	6.6	8.3	8.7	14.7	22.9	25.8	45.6	50.3	57.3	64.7	21.4	10.5	C18
Rectum	165	0.0	0.0	0.0	0.0	0.4	0.8	3.3	4.0	4.4	7.7	13.7	17.1	24.8	25.9	32.2	26.4	11.2	5.6	C19-20
Anus	5	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	0.3	0.3	0.3	0.8	0.9	0.5	0.6	0.3	0.2	C21
Liver and bile duct	336	0.5	0.0	0.0	0.0	0.4	0.4	2.4	4.8	6.2	13.7	18.0	29.1	45.3	59.5	71.2	77.3	22.7	10.4	C22,C24
Gallbladder	28	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	0.0	0.6	2.6	3.4	4.4	8.2	8.5	1.9	0.8	C23
Pancreas	66	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.9	0.7	2.7	2.6	5.4	8.7	11.4	13.5	17.9	4.4	1.9	C25
Nose, sinuses etc.	9	0.0	0.0	0.0	0.4	0.4	0.4	0.5	0.4	0.4	0.3	1.4	0.8	0.8	0.6	1.0	1.6	0.6	0.4	C30-31
Larynx	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.8	0.3	0.9	1.9	0.9	0.4	0.2	C32
Trachea, Bronchus and lung	459	0.0	0.0	0.0	0.0	2.4	0.4	2.4	7.0	9.1	14.0	20.6	37.0	62.4	81.0	109.2	108.4	31.1	14.0	C33-34
Other thoracic organs	8	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	0.4	1.3	0.3	0.8	0.8	1.9	1.0	0.3	0.5	0.3	C37-38
Bone	18	0.5	0.5	0.8	0.4	2.8	0.8	1.9	0.0	1.1	0.7	0.3	0.5	2.6	1.3	2.4	2.8	1.2	1.0	C40-C41
Melanoma of skin	13	0.0	0.0	0.0	0.0	0.4	0.0	0.5	0.0	0.4	0.0	0.6	0.8	2.1	2.5	1.0	4.4	0.9	0.4	C43
Other skin	143	0.0	0.0	0.0	0.0	2.8	0.0	2.4	4.0	2.6	3.7	4.9	9.4	13.4	17.7	26.0	55.3	9.7	4.3	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	21	0.5	0.5	0.0	0.0	1.6	0.8	1.9	1.3	0.7	2.0	2.3	1.3	1.8	2.2	1.9	2.8	1.4	1.0	C47,C49
Breast	983	0.0	0.0	0.0	0.0	5.9	13.2	44.7	71.6	84.9	110.6	106.5	110.4	134.6	117.1	96.7	59.7	66.5	42.0	C50
Vulva	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.3	0.0	0.5	2.9	1.9	1.4	4.1	0.9	0.4	C51
Vagina	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.8	0.0	1.4	0.9	0.3	0.1	C52
Cervix uteri	305	0.0	0.0	0.0	0.0	0.4	12.0	36.3	31.2	25.2	31.3	29.7	35.5	33.5	25.6	26.9	20.4	20.6	14.4	C53
Corpus uteri	202	0.0	0.0	0.0	0.0	0.4	1.2	8.0	6.6	8.0	12.3	20.0	33.2	37.9	27.2	24.5	9.4	13.7	7.6	C54
Uterus unspecified	11	0.0	0.0	0.0	0.0	0.0	0.4	0.5	1.8	0.0	1.0	1.7	1.5	1.6	0.0	0.5	1.3	0.7	0.5	C55
Ovary	137	0.0	0.0	0.8	3.1	3.5	3.6	5.2	9.7	10.9	11.3	12.6	15.6	15.8	17.7	16.4	10.1	9.3	6.1	C56
Other female genital organs	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.6	0.5	1.3	2.2	0.5	0.0	0.4	0.2	C57
Placenta	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C58
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63
Kidney	27	0.0	0.0	0.0	0.4	0.0	0.8	2.4	0.0	0.7	2.0	2.3	3.8	2.6	3.8	1.9	5.0	1.8	1.0	C64
Renal pelvis	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.9	0.1	0.0	C65
Ureter	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.3	0.6	0.5	2.2	0.3	0.1	C66
Bladder	41	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.9	0.4	0.7	0.9	2.6	5.5	7.0	9.6	12.9	2.8	1.2	C67
Other urinary organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	C68
Eye	2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.9	0.2	0.1	C69
Brain, nervous system	45	0.9	2.7	0.8	0.8	0.4	0.8	4.2	4.4	3.3	3.3	3.1	3.1	4.5	5.4	7.2	3.5	3.1	2.4	C70-72
Thyroid	140	0.0	0.0	0.4	2.3	3.5	8.8	19.3	19.8	16.8	12.3	12.6	10.7	10.5	10.8	11.5	8.8	9.4	7.5	C73
Adrenal gland	1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3	0.1	0.0	C74
Other endocrine	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.3	0.0	0.3	0.0	0.0	0.0	0.1	0.1	C75
Hodgkin disease	6	0.0	0.0	0.8	0.4	0.4	0.4	0.9	0.4	0.4	0.0	0.0	0.5	0.3	0.9	1.0	0.0	0.4	0.4	C81
Non-Hodgkin lymphoma	131	0.5	0.5	0.4	1.1	4.7	2.8	7.5	5.3	4.7	8.3	7.4	11.5	14.2	17.1	26.5	21.4	8.9	5.3	C82-85,C96
Multiple myeloma	28	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	0.0	0.3	1.4	2.8	5.0	5.1	8.2	3.8	1.9	0.9	C90
Lymphoid leukemia	9	2.8	1.4	0.0	0.0	0.4	0.4	0.0	0.0	0.7	0.0	0.6	0.5	0.8	0.9	1.4	0.6	0.6	0.7	C91
Myeloid leukemia	37	0.0	0.0	0.8	0.4	0.4	0.8	1.4	4.0	1.5	1.0	2.3	2.8	5.0	7.3	4.8	5.0	2.5	1.5	C92-94
Leukemia unspecified	9	0.5	0.0	0.0	0.4	0.4	0.0	1.9	0.4	0.4	0.3	0.0	0.8	0.3	0.9	1.4	2.2	0.6	0.4	C95
Myelodysplastic disease	28	0.9	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.7	1.3	1.4	1.8	2.4	5.1	6.7	7.2	1.9	1.0	D45-D47
Other and unspecified	96	0.5	0.0	0.0	0.8	1.6	0.8	0.5	2.6	3.6	2.3	4.9	8.4	11.9	16.8	19.2	21.0	6.5	3.2	O&U
All sites	**4,107**	**8.1**	**5.5**	**4.6**	**10.7**	**39.8**	**56.4**	**169.0**	**205.1**	**210.7**	**274.2**	**309.6**	**400.7**	**531.9**	**569.6**	**638.1**	**623.0**	**277.9**	**157.2**	**ALL**

4.4 Health Regions 4

Health Regions 4 is located in the central and eastern part of Thailand, consists of 8 provinces : Nonthaburi, Pathum Thani, Phra Nakhon Si Ayutthaya, Ang Thong, Lop Buri, Sing Buri, Saraburi and Nakhon Nayok. The health region has a population-based cancer registry in Pathum Thani and Lop Buri. The estimated population in 2020 was 6,144,234 with 2,956,367 males and 3,187,867 females. New cases were registered in 2020; 6,637 were males and 7,835 were females, making 14,472 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 153.1 per 100,000, with liver and bile duct ranking first (ASR = 28.0) followed by colon and rectum (ASR = 26.3) and trachea, bronchus and lung (ASR = 20.7). The ASR of all cancer in females was 158.4 per 100,000, the three leading sites being breast (ASR = 44.5) followed by colon and rectum (ASR = 16.3) and cervix uteri (ASR = 15.6).

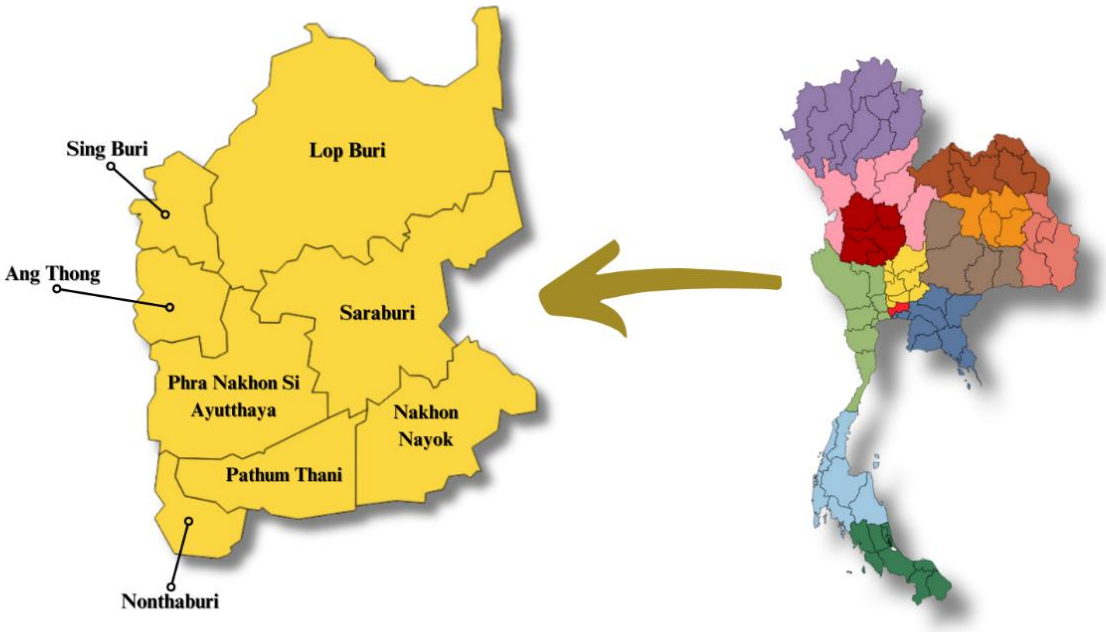


Figure 4.4.1 Leading cancer in Health Regions 4 (mean annual ASR 2019-2021)

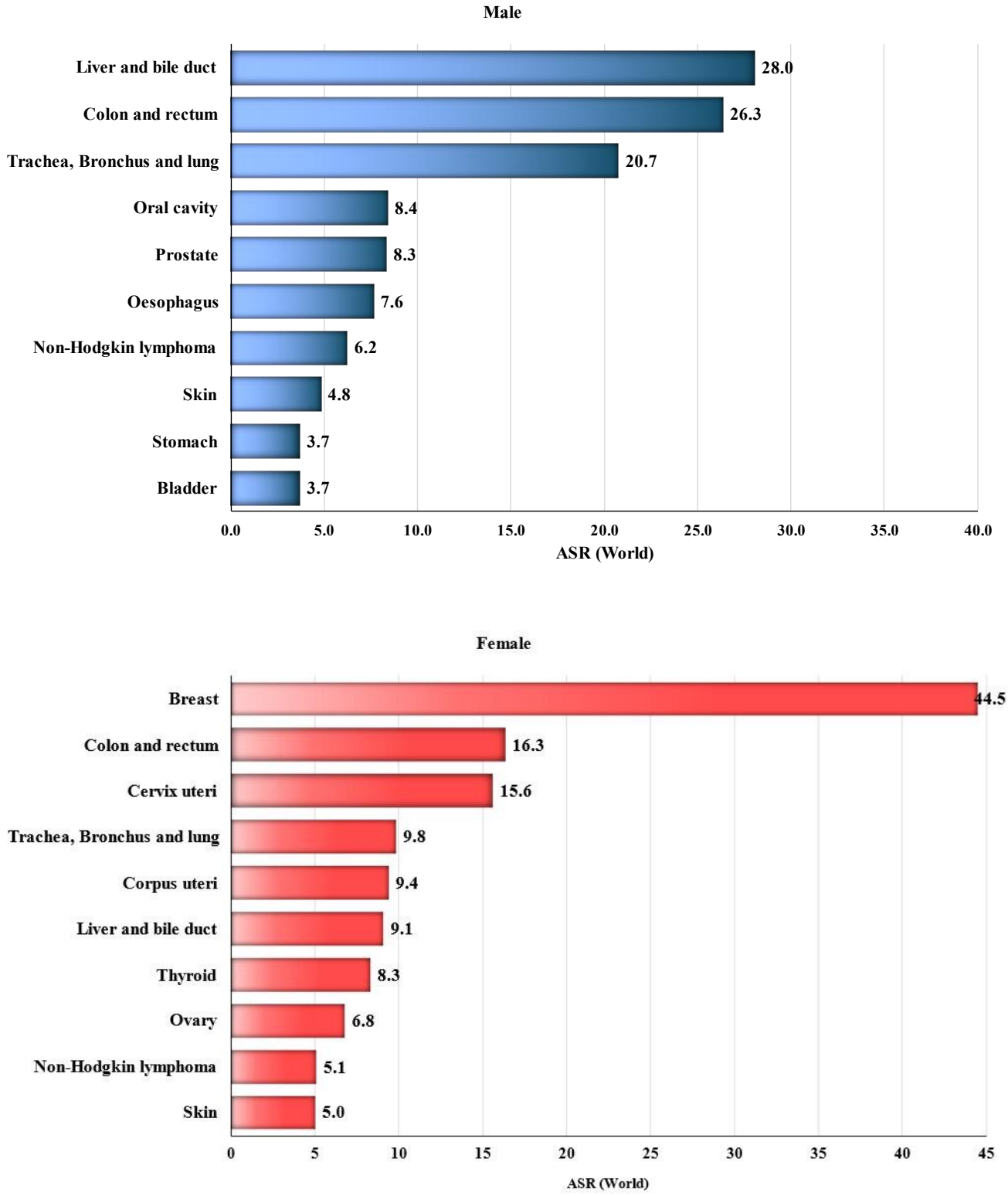


Table 4.4.1 Health Regions 4 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group – Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	3.1	0.1	0.1	C00
Tongue	180	0.0	0.0	0.0	0.0	0.7	0.7	2.0	3.6	5.0	9.9	11.2	14.2	13.1	18.5	20.0	8.8	6.1	4.1	C01-02
Mouth	139	0.0	0.0	0.0	1.0	2.0	0.7	0.0	2.4	4.8	5.9	7.3	13.0	12.7	8.6	10.7	13.2	4.7	3.2	C03-06
Salivary glands	41	0.0	0.0	0.0	0.0	0.0	0.9	0.8	0.8	1.2	2.3	0.4	1.8	4.5	3.6	3.4	6.3	1.4	0.9	C07-08
Tonsil	73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	4.4	5.7	10.3	4.1	6.9	1.7	3.1	2.5	1.6	C09
Other oropharynx	49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.1	2.0	3.5	6.2	3.1	3.6	4.7	2.2	1.7	1.1	C10
Nasopharynx	95	0.0	0.0	0.0	0.0	2.0	0.9	1.9	1.8	6.5	3.6	6.4	4.1	7.6	5.8	7.2	3.8	3.2	2.2	C11
Hypopharynx	112	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	6.8	6.5	9.0	11.7	8.3	9.4	6.3	3.8	2.5	C12-13
Pharynx unspecified	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.4	1.4	0.0	0.0	0.1	0.1	C14
Oesophagus	340	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	7.7	15.3	21.3	35.4	35.8	37.4	30.3	24.5	11.5	7.6	C15
Stomach	162	0.0	0.0	0.0	1.4	0.0	0.0	1.9	0.8	1.5	7.3	6.6	9.9	16.0	15.2	20.5	31.7	5.5	3.7	C16
Small intestine	20	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	1.2	0.5	1.7	1.1	1.0	3.6	1.3	0.0	0.7	0.5	C17
Colon	683	0.0	0.0	0.0	0.0	1.0	5.8	3.0	7.6	8.5	14.5	24.7	49.6	77.6	88.6	98.0	104.2	23.1	15.6	C18
Rectum	461	0.0	0.0	0.0	0.0	1.0	0.0	2.0	6.7	13.3	15.7	19.6	38.1	43.2	53.7	66.1	46.4	15.6	10.4	C19-20
Anus	12	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.6	0.0	0.7	0.0	0.3	0.2	0.3	0.0	0.3	0.4	0.3	C21
Liver and bile duct	1233	0.3	0.9	0.0	1.6	0.7	2.3	5.9	14.9	34.4	54.9	64.6	96.3	119.0	137.6	124.9	121.4	41.7	28.0	C22,C24
Gallbladder	27	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.7	0.7	0.3	2.9	2.5	0.8	7.2	3.8	0.9	0.6	C23
Pancreas	119	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.0	2.2	3.6	5.8	8.5	10.9	15.8	23.0	13.5	4.0	2.7	C25
Nose, sinuses etc.	29	0.0	0.0	0.0	0.0	0.8	0.0	0.0	1.8	0.7	1.3	1.1	0.3	4.7	1.7	3.0	1.9	1.0	0.7	C30-31
Larynx	110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.1	5.7	5.0	10.6	11.1	12.2	9.8	11.6	3.7	2.5	C32
Trachea, Bronchus and lung	924	0.0	0.0	0.0	0.0	1.0	1.5	5.7	7.6	13.1	22.4	30.0	56.6	89.3	109.4	151.3	198.0	31.3	20.7	C33-34
Other thoracic organs	32	0.0	0.0	0.2	0.8	0.8	0.7	0.9	0.0	2.2	1.9	1.8	0.5	2.5	1.7	2.1	1.3	1.1	0.8	C37-38
Bone	45	0.0	0.0	1.6	2.8	2.6	2.5	0.0	0.8	0.7	2.4	0.3	2.0	3.5	3.3	1.3	1.6	1.5	1.4	C40-C41
Melanoma of skin	25	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.9	2.2	0.5	0.4	0.0	1.2	3.3	2.1	4.7	0.8	0.6	C43
Other skin	185	0.0	0.0	0.0	1.0	1.3	2.3	3.1	4.5	3.1	2.8	9.4	11.2	10.6	13.6	18.3	44.6	6.3	4.2	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	C46
Connective tissue	62	0.0	1.1	1.4	0.0	0.7	1.5	0.8	3.7	0.7	4.0	5.9	1.8	1.6	1.9	3.8	4.1	2.1	1.6	C47,C49
Breast	21	0.0	0.0	0.0	0.0	0.0	0.7	1.9	0.8	0.0	0.5	0.0	2.4	1.8	1.4	2.1	0.3	0.7	0.5	C50
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58
Penis	46	0.0	0.0	0.0	0.0	0.7	0.0	0.9	1.6	1.1	3.6	0.6	2.3	2.0	4.2	7.7	5.6	1.6	1.1	C60
Prostate	375	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.7	4.6	9.3	31.3	59.2	87.8	137.1	12.7	8.3	C61
Testis	28	0.0	0.9	0.0	0.0	0.7	1.5	2.0	2.6	0.7	1.9	0.0	0.3	0.4	0.6	0.9	1.3	1.0	0.8	C62
Other male genital organs	8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.8	0.0	0.0	0.0	0.0	1.6	0.3	0.2	C63
Kidney	67	0.5	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.0	1.2	2.6	4.6	8.4	7.2	12.4	9.7	2.3	1.6	C64
Renal pelvis	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.0	0.0	2.2	0.1	0.1	C65
Ureter	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	1.7	1.6	0.1	0.1	C66
Bladder	167	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.8	1.2	4.3	1.8	9.6	15.4	15.5	29.8	51.8	5.6	3.7	C67
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C68
Eye	6	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.4	1.3	0.0	0.2	0.2	C69
Brain, nervous system	80	1.8	3.0	0.0	1.0	0.7	0.7	5.1	0.8	2.8	3.7	4.6	4.4	2.3	3.3	4.7	5.6	2.7	2.3	C70-72
Thyroid	61	0.0	0.0	0.0	0.0	0.7	0.0	0.8	4.5	5.8	1.1	1.9	3.1	2.0	3.6	4.3	5.3	2.1	1.4	C73
Adrenal gland	4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.6	0.0	0.0	0.0	0.1	0.1	C74
Other endocrine	5	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.3	0.0	0.0	0.9	0.0	0.2	0.2	C75
Hodgkin disease	21	0.0	0.0	0.0	0.8	1.2	0.7	2.0	1.7	0.7	0.5	0.0	0.0	0.2	1.1	2.1	0.0	0.7	0.6	C81
Non-Hodgkin lymphoma	245	0.3	1.1	1.1	1.0	5.9	8.1	7.2	6.1	5.2	5.5	8.1	11.7	16.4	23.5	27.7	26.4	8.3	6.2	C82-85,C96
Multiple myeloma	23	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.8	0.0	1.2	0.1	1.6	3.5	1.7	2.1	3.1	0.8	0.5	C90
Lymphoid leukemia	13	0.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.3	0.0	1.8	1.7	0.0	0.6	0.4	0.4	C91
Myeloid leukemia	67	0.3	0.0	0.2	2.0	0.8	1.3	0.9	3.6	2.9	0.7	2.5	3.1	5.9	4.2	4.7	6.0	2.3	1.7	C92-94
Leukemia unspecified	27	0.3	0.0	0.0	0.8	0.8	0.7	0.8	0.0	0.7	1.1	0.3	0.0	1.6	3.0	5.5	4.1	0.9	0.7	C95
Myelodysplastic disease	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.5	0.8	1.1	2.1	4.7	0.4	0.3	D45-D47
Other and unspecified	186	0.0	0.0	0.0	1.4	0.8	3.3	0.8	0.9	5.5	5.7	11.9	14.0	11.3	18.0	20.0	25.7	6.3	4.3	O&U
All sites	**6,637**	**4.3**	**8.5**	**4.5**	**16.8**	**27.5**	**40.0**	**56.1**	**90.6**	**154.2**	**222.6**	**281.5**	**453.7**	**594.3**	**707.6**	**838.0**	**952.9**	**224.5**	**153.1**	**ALL**

Table 4.4.2 Health Regions 4 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group – Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	11	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	4.7	0.4	0.2	C00
Tongue	59	0.0	0.0	0.0	0.0	2.1	0.9	0.0	0.0	3.0	2.7	2.2	3.3	1.0	3.6	7.1	4.7	1.8	1.2	C01-02
Mouth	77	0.0	0.0	0.0	0.0	0.0	2.7	2.8	3.8	2.0	0.4	0.9	2.6	3.9	3.6	4.5	12.4	2.4	1.5	C03-06
Salivary glands	40	0.0	0.0	0.0	0.0	2.5	1.1	2.7	1.7	0.0	1.1	2.6	1.5	0.5	0.4	0.6	3.3	1.2	0.9	C07-08
Tonsil	15	0.0	0.0	0.0	0.0	1.2	0.0	3.0	0.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.4	C09
Other oropharynx	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.0	0.0	0.0	0.6	0.2	0.1	0.1	C10
Nasopharynx	47	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.7	1.2	2.9	1.1	2.1	1.2	1.7	4.5	1.4	1.5	1.0	C11
Hypopharynx	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.5	0.0	0.2	0.0	1.3	1.2	0.3	0.2	C12-13
Pharynx unspecified	1	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C14
Oesophagus	56	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.7	0.8	1.1	0.9	1.5	3.1	5.8	6.4	9.2	1.8	1.0	C15
Stomach	127	0.0	0.0	0.0	0.0	0.0	1.8	0.0	2.7	4.4	2.9	4.4	9.7	5.3	9.8	11.3	14.1	4.0	2.4	C16
Small intestine	29	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.2	0.4	0.2	1.5	2.4	1.9	4.2	2.9	0.9	0.5	C17
Colon	592	0.0	0.0	0.0	0.0	3.3	1.1	8.5	6.4	10.1	17.2	29.4	28.4	38.4	42.7	61.2	71.5	18.6	11.0	C18
Rectum	276	0.0	0.0	0.0	0.0	1.2	1.1	4.6	4.4	4.5	6.5	14.8	15.6	21.1	16.4	28.7	26.5	8.6	5.2	C19-20
Anus	8	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.4	0.4	1.2	1.1	0.0	0.2	0.3	0.2	C21
Liver and bile duct	507	0.0	0.0	0.0	0.0	1.1	0.9	2.8	4.8	5.9	12.4	20.4	28.1	30.6	47.4	57.0	71.7	15.9	9.1	C22,C24
Gallbladder	36	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.9	0.0	0.0	2.9	1.9	2.1	5.8	6.7	1.1	0.6	C23
Pancreas	100	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.8	0.1	2.9	2.7	4.0	7.5	7.5	11.3	18.3	3.1	1.8	C25
Nose, sinuses etc.	22	0.0	0.0	0.0	0.6	1.2	1.1	1.4	0.9	0.0	1.1	1.2	0.4	0.3	0.0	1.6	0.4	0.7	0.6	C30-31
Larynx	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	1.0	0.8	0.0	0.4	1.9	1.0	0.4	0.2	C32
Trachea, Bronchus and lung	537	0.0	0.0	0.0	0.0	3.3	0.0	2.8	7.5	8.2	12.7	18.8	33.9	42.1	46.1	51.9	64.0	16.8	9.8	C33-34
Other thoracic organs	20	0.0	0.5	0.0	0.0	1.2	0.0	0.0	0.0	0.7	1.6	0.0	0.8	0.8	1.9	1.3	1.4	0.6	0.5	C37-38
Bone	46	0.0	1.9	0.0	0.8	4.7	1.1	2.8	0.0	0.9	0.9	0.4	0.0	2.5	1.5	4.8	3.1	1.4	1.3	C40-C41
Melanoma of skin	29	0.0	0.0	0.0	0.0	1.1	0.0	1.4	0.0	1.2	0.0	1.0	0.4	1.5	3.2	1.6	4.1	0.9	0.6	C43
Other skin	242	0.0	0.0	0.0	0.0	4.6	0.0	2.8	5.6	3.3	4.7	5.6	11.0	12.2	14.5	26.7	44.8	7.6	4.4	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	50	0.0	1.4	0.0	0.0	2.5	1.8	2.8	0.9	0.9	2.2	2.6	0.4	2.5	1.3	1.0	3.1	1.6	1.3	C47,C49
Breast	2172	0.0	0.0	0.0	0.0	9.1	19.7	61.5	77.1	95.5	126.4	117.1	112.7	116.9	93.0	77.9	56.7	68.1	44.5	C50
Vulva	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.8	0.4	0.0	0.0	1.7	0.9	1.3	4.7	0.6	0.3	C51
Vagina	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.4	0.3	1.0	0.0	2.3	1.0	0.3	0.2	C52
Cervix uteri	733	0.0	0.0	0.0	0.0	1.2	18.1	45.9	29.3	24.7	35.1	33.3	37.9	29.9	22.8	24.5	19.6	23.0	15.6	C53
Corpus uteri	479	0.0	0.0	0.0	0.0	1.2	1.8	10.2	9.5	10.7	16.9	25.8	43.9	43.0	25.8	27.1	10.8	15.0	9.4	C54
Uterus unspecified	35	0.0	0.0	0.0	0.0	0.0	0.9	1.4	2.8	0.0	1.2	2.0	2.6	1.9	0.0	0.6	1.4	1.1	0.7	C55
Ovary	316	0.0	0.0	0.0	2.9	4.6	5.3	8.4	10.9	13.4	12.6	14.1	16.0	14.6	16.2	16.7	12.8	9.9	6.8	C56
Other female genital organs	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.1	0.1	C57
Placenta	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C58
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63
Kidney	52	0.0	0.0	0.0	0.4	0.0	1.7	2.8	0.0	0.7	1.8	2.1	4.0	2.5	3.2	2.3	3.9	1.6	1.1	C64
Renal pelvis	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.1	0.0	C65
Ureter	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.3	0.0	0.3	1.6	0.2	0.1	C66
Bladder	63	0.0	0.0	0.0	0.0	0.0	0.9	1.5	0.9	0.9	1.0	0.4	1.5	4.9	2.8	9.7	12.6	2.0	1.1	C67
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	C68
Eye	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.2	0.0	0.0	C69
Brain, nervous system	83	0.3	3.3	0.0	0.6	1.1	1.8	5.4	3.5	2.0	3.1	3.2	2.4	3.4	1.9	5.8	2.2	2.6	2.1	C70-72
Thyroid	364	0.0	0.0	1.0	2.9	3.5	11.9	21.2	21.7	20.9	13.7	13.7	10.0	5.8	11.9	11.3	8.4	11.4	8.3	C73
Adrenal gland	4	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.1	0.1	C74
Other endocrine	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.4	0.0	0.3	0.0	0.0	0.0	0.1	0.1	C75
Hodgkin disease	13	0.0	0.0	0.0	1.4	1.1	0.9	0.0	0.7	0.7	0.0	0.0	0.0	0.7	0.6	0.0	0.0	0.4	0.4	C81
Non-Hodgkin lymphoma	227	0.8	1.2	0.0	1.0	7.4	4.8	8.5	5.5	4.9	8.6	6.7	7.9	8.3	11.1	23.5	17.9	7.1	5.1	C82-85,C96
Multiple myeloma	31	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.7	0.0	0.4	0.2	2.5	3.1	2.6	6.4	1.6	1.0	0.6	C90
Lymphoid leukemia	14	1.3	1.2	0.0	0.0	1.2	1.1	0.0	0.0	0.7	0.0	0.0	0.0	1.0	0.6	0.6	0.2	0.4	0.6	C91
Myeloid leukemia	56	0.3	0.0	0.0	0.2	1.2	1.8	1.4	2.6	1.0	1.1	1.4	1.4	3.6	4.9	5.5	3.3	1.8	1.2	C92-94
Leukemia unspecified	23	0.5	0.5	0.0	0.8	1.1	0.0	2.7	0.7	0.0	0.9	0.0	0.4	0.5	1.1	1.6	1.4	0.7	0.7	C95
Myelodysplastic disease	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.6	0.7	0.9	1.9	3.7	0.4	0.2	D45-D47
Other and unspecified	159	1.3	0.0	0.2	1.2	2.3	2.0	0.0	0.7	4.5	2.6	4.6	8.1	10.0	11.9	19.0	21.4	5.0	3.2	O&U
All sites	**7,835**	**4.4**	**10.0**	**1.2**	**13.3**	**65.8**	**90.0**	**219.2**	**212.8**	**233.8**	**302.0**	**337.6**	**403.1**	**434.8**	**426.0**	**534.9**	**558.3**	**245.8**	**158.4**	**ALL**

4.5 Health Regions 5

Health Regions 5 is located in the central part of Thailand, consists of 8 provinces : Ratchaburi, Kanchanaburi, Suphan Buri, Nakhon Pathom, Samut Sakhon, Samut Songkhram, Phetchaburi and Prachuap Khiri Khan. The health region has a population-based cancer registry in Suphan Buri. The estimated population in 2020 was 5,372,133 with 2,605,900 males and 2,766,233 females. New cases were registered in 2020; 5,863 were males and 6,637 were females, making 12,500 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 151.8 per 100,000, with liver and bile duct ranking first (ASR = 27.1) followed by colon and rectum (ASR = 26.2) and trachea, bronchus and lung (ASR = 21.1). The ASR of all cancer in females was 156.5 per 100,000, the three leading sites being breast (ASR = 44.0) followed by colon and rectum (ASR = 16.4) and cervix uteri (ASR = 15.4).

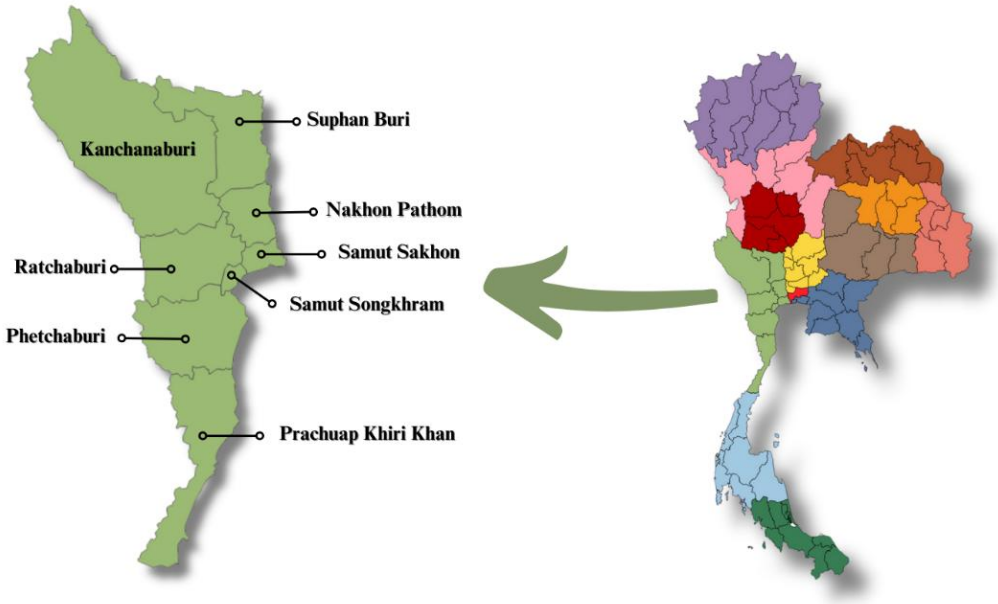
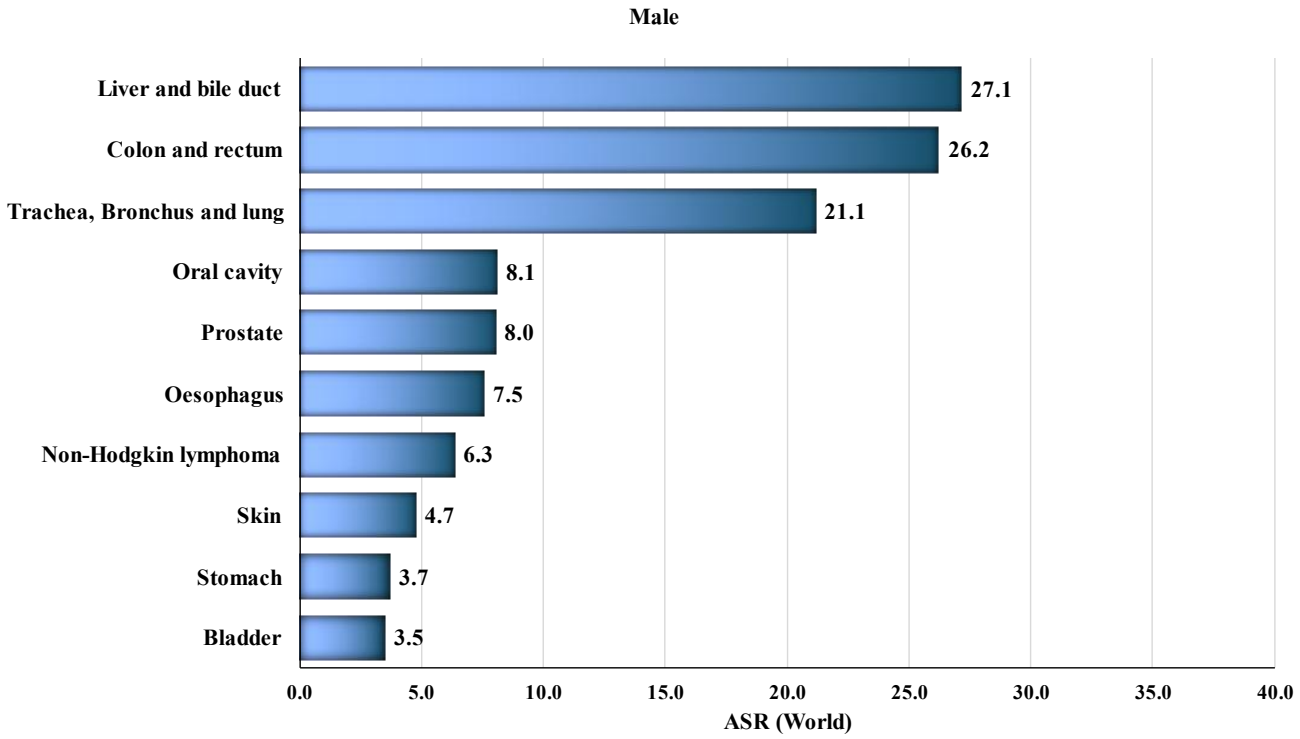


Figure 4.5.1 Leading cancer in Health Regions 5 (mean annual ASR 2019-2021)



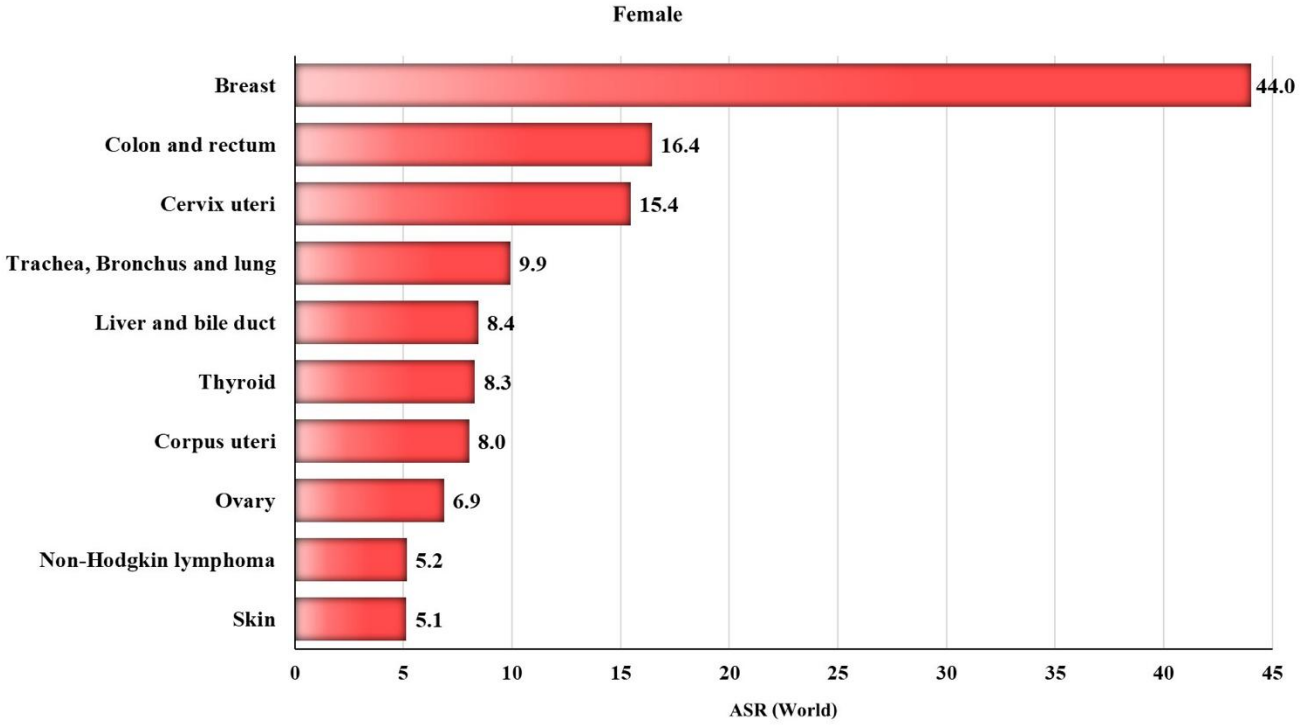


Table 4.5.1 Health Regions 5 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group – Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	2.8	0.1	0.1	C00
Tongue	151	0.0	0.0	0.0	0.0	0.9	0.8	2.2	3.7	5.0	9.6	12.1	13.1	12.3	18.1	16.8	6.6	5.8	4.0	C01-02
Mouth	119	0.0	0.0	0.0	0.6	2.0	0.8	0.0	2.7	5.3	5.8	7.5	12.9	11.9	9.5	10.2	9.8	4.6	3.2	C03-06
Salivary glands	31	0.0	0.0	0.0	0.0	0.0	0.7	1.0	0.8	1.4	1.8	0.3	1.5	3.2	3.6	3.5	4.7	1.2	0.8	C07-08
Tonsil	66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	4.5	5.8	11.2	5.0	7.1	0.0	3.2	2.5	1.7	C09
Other oropharynx	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1	2.1	3.6	6.1	2.3	3.6	4.4	2.2	1.6	1.1	C10
Nasopharynx	79	0.0	0.0	0.0	0.0	2.0	0.7	2.4	1.5	6.4	3.5	6.3	4.4	6.8	5.3	6.6	3.8	3.0	2.2	C11
Hypopharynx	99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.8	7.4	7.5	9.2	8.9	10.1	9.3	7.6	3.8	2.6	C12-13
Pharynx unspecified	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.5	1.5	0.0	0.0	0.1	0.1	C14
Oesophagus	297	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	8.4	17.2	22.2	35.5	33.3	35.5	26.6	23.0	11.4	7.5	C15
Stomach	146	0.0	0.0	0.0	1.6	0.0	0.0	2.4	0.8	1.3	6.9	7.5	10.1	14.6	15.4	19.9	31.5	5.6	3.7	C16
Small intestine	19	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	1.4	0.8	1.7	1.5	1.6	3.6	0.4	0.0	0.7	0.5	C17
Colon	622	0.0	0.0	0.0	0.0	1.5	5.9	3.4	8.2	9.3	15.2	23.4	50.4	77.6	89.7	95.2	105.0	23.9	15.7	C18
Rectum	399	0.0	0.0	0.0	0.0	1.5	0.0	2.2	7.1	14.2	16.7	18.6	37.7	43.3	49.4	56.7	45.4	15.3	10.2	C19-20
Anus	8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	0.0	0.7	0.0	0.4	0.0	0.0	0.0	0.0	0.3	0.2	C21
Liver and bile duct	1052	0.2	0.9	0.0	1.4	0.9	2.4	6.1	15.5	35.1	53.1	64.7	94.4	116.6	131.4	109.8	111.0	40.4	27.1	C22,C24
Gallbladder	22	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	0.7	0.5	2.8	2.5	0.0	4.4	3.8	0.8	0.5	C23
Pancreas	114	0.0	0.0	0.0	0.0	0.0	0.8	1.0	0.0	2.1	4.3	5.8	9.6	11.2	16.9	24.3	14.2	4.4	2.9	C25
Nose, sinuses etc.	23	0.0	0.0	0.0	0.0	0.7	0.0	0.0	1.4	0.8	1.3	1.3	0.4	4.3	1.5	3.5	0.9	0.9	0.7	C30-31
Larynx	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.1	5.9	5.5	11.2	9.8	12.7	9.7	12.3	3.8	2.5	C32
Trachea, Bronchus and lung	855	0.0	0.0	0.0	0.0	1.5	1.7	6.2	8.3	13.2	24.1	30.2	56.7	93.5	118.7	142.1	192.3	32.8	21.1	C33-34
Other thoracic organs	27	0.0	0.0	0.0	0.8	0.7	0.8	0.8	0.0	1.9	2.1	1.5	0.2	2.5	1.2	1.8	2.8	1.0	0.8	C37-38
Bone	43	0.0	0.0	2.4	3.8	2.8	2.2	0.0	0.8	0.8	2.6	0.5	1.5	3.0	3.6	0.0	2.5	1.6	1.6	C40-C41
Melanoma of skin	23	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.7	1.9	0.8	0.3	0.0	1.4	3.6	1.8	6.3	0.9	0.6	C43
Other skin	164	0.0	0.0	0.0	0.6	1.1	2.4	3.2	4.4	2.9	2.3	8.8	11.0	11.4	15.1	19.5	42.6	6.3	4.1	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	C46
Connective tissue	50	0.0	0.7	0.7	0.0	0.9	1.7	1.0	3.6	0.8	3.6	5.5	1.7	1.1	2.4	3.1	3.8	1.9	1.5	C47,C49
Breast	20	0.0	0.0	0.0	0.0	0.0	0.8	2.4	0.8	0.0	0.8	0.0	2.4	1.8	1.5	1.8	0.3	0.8	0.6	C50
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58
Penis	45	0.0	0.0	0.0	0.0	0.9	0.0	0.8	1.7	1.6	4.1	0.3	2.8	1.8	4.1	10.2	6.0	1.7	1.2	C60
Prostate	340	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.3	5.8	9.2	30.6	59.2	82.3	124.2	13.1	8.0	C61
Testis	25	0.0	0.9	0.0	0.0	0.9	1.7	2.2	2.4	0.8	2.1	0.0	0.4	0.5	0.3	0.4	1.6	1.0	0.8	C62
Other male genital organs	6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.3	0.0	0.0	0.0	0.0	1.3	0.2	0.2	C63
Kidney	58	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.6	1.5	2.0	5.0	8.2	7.1	12.8	8.8	2.2	1.5	C64
Renal pelvis	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.9	0.1	0.0	C65
Ureter	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	2.2	1.3	0.1	0.1	C66
Bladder	146	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.8	1.4	4.6	1.5	9.7	14.6	13.6	27.0	46.7	5.6	3.5	C67
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C68
Eye	4	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.5	0.0	0.3	0.1	0.1	C69
Brain, nervous system	70	1.7	2.2	0.0	0.6	0.9	0.8	4.5	0.8	3.2	3.1	4.6	4.0	2.1	4.1	4.9	7.9	2.7	2.2	C70-72
Thyroid	54	0.0	0.0	0.0	0.0	0.9	0.0	1.0	4.4	5.8	1.5	1.3	4.2	1.8	3.6	5.3	5.4	2.1	1.5	C73
Adrenal gland	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.2	0.0	0.0	0.0	0.1	0.1	C74
Other endocrine	4	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.4	0.0	0.0	0.4	0.0	0.1	0.1	C75
Hodgkin disease	19	0.0	0.0	0.0	0.8	1.3	0.8	2.2	1.5	0.8	0.8	0.0	0.0	0.0	1.8	1.8	0.0	0.7	0.7	C81
Non-Hodgkin lymphoma	220	0.2	0.9	1.8	0.8	6.3	9.0	6.6	6.5	5.0	5.1	8.0	11.0	15.5	24.9	27.4	30.3	8.5	6.3	C82-85,C96
Multiple myeloma	23	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	0.0	1.3	0.0	1.8	4.3	1.8	2.2	3.8	0.9	0.6	C90
Lymphoid leukemia	10	0.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.5	0.0	2.1	1.5	0.0	0.0	0.4	0.3	C91
Myeloid leukemia	62	0.0	0.0	0.2	2.4	0.9	1.9	1.0	3.9	3.2	0.8	2.2	2.9	6.8	3.3	5.3	6.6	2.4	1.8	C92-94
Leukemia unspecified	31	0.2	0.0	0.0	0.8	0.7	0.8	1.0	0.0	0.8	1.5	0.5	0.0	2.3	4.1	7.5	5.0	1.2	0.9	C95
Myelodysplastic disease	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D45-D47
Other and unspecified	158	0.0	0.0	0.2	1.6	0.7	3.6	1.0	0.8	6.1	6.1	11.3	12.5	11.4	16.0	20.4	21.1	6.1	4.2	O&U
All sites	**5,863**	**2.9**	**6.3**	**5.3**	**16.6**	**30.9**	**43.0**	**59.4**	**92.1**	**159.2**	**229.4**	**280.9**	**452.2**	**582.8**	**707.5**	**781.8**	**909.5**	**225.0**	**151.8**	**ALL**

Table 4.5.2 Health Regions 5 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group – Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	11	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	5.9	0.4	0.2	C00
Tongue	50	0.0	0.0	0.0	0.0	2.4	0.9	0.0	0.0	3.6	1.8	1.8	3.3	1.3	3.6	8.4	3.5	1.8	1.2	C01-02
Mouth	66	0.0	0.0	0.0	0.0	0.0	2.8	2.7	3.7	1.8	0.8	1.2	3.2	3.4	3.6	3.4	11.8	2.4	1.5	C03-06
Salivary glands	30	0.0	0.0	0.0	0.0	2.0	0.7	2.9	1.8	0.0	1.2	2.5	1.3	0.2	0.2	0.0	2.6	1.1	0.8	C07-08
Tonsil	10	0.0	0.0	0.0	0.0	1.2	0.0	2.5	0.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	C09
Other oropharynx	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.8	0.0	0.0	0.0	0.2	0.1	0.1	C10
Nasopharynx	42	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.8	1.4	3.0	1.2	2.7	1.1	1.9	4.4	1.4	1.5	1.0	C11
Hypopharynx	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	0.0	0.0	0.0	2.0	0.6	0.3	0.2	C12-13
Pharynx unspecified	1	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C14
Oesophagus	51	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.8	0.6	1.2	1.3	1.4	2.3	6.2	6.4	9.6	1.9	1.0	C15
Stomach	120	0.0	0.0	0.0	0.0	0.0	1.9	0.0	2.7	4.7	3.2	4.1	10.7	5.3	9.5	13.5	15.9	4.3	2.5	C16
Small intestine	26	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.2	0.8	0.6	1.3	2.3	2.9	3.4	2.2	0.9	0.6	C17
Colon	543	0.0	0.0	0.0	0.0	4.0	0.7	8.4	6.8	10.6	18.4	29.8	28.5	40.0	45.9	60.5	73.4	19.6	11.3	C18
Rectum	234	0.0	0.0	0.0	0.0	1.2	0.7	4.1	5.0	4.5	5.9	14.1	15.3	17.8	16.4	27.7	27.1	8.5	4.9	C19-20
Anus	6	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.4	0.2	0.9	1.0	0.0	0.0	0.2	0.2	C21
Liver and bile duct	425	0.0	0.0	0.0	0.0	1.4	0.9	2.7	4.5	5.6	12.5	19.5	26.5	27.1	41.4	50.3	68.2	15.4	8.4	C22,C24
Gallbladder	33	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	1.5	0.0	0.0	2.9	1.5	2.6	5.4	6.5	1.2	0.6	C23
Pancreas	89	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.7	0.0	3.0	2.5	4.6	7.0	6.9	10.5	18.1	3.2	1.7	C25
Nose, sinuses etc.	17	0.0	0.0	0.0	0.2	1.2	0.7	1.6	0.7	0.0	1.1	1.8	0.2	0.4	0.0	1.7	0.0	0.6	0.5	C30-31
Larynx	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	1.0	1.0	0.0	0.2	1.4	1.6	0.4	0.2	C32
Trachea, Bronchus and lung	484	0.0	0.0	0.0	0.0	4.0	0.0	2.7	7.2	8.6	12.2	20.0	34.0	41.5	45.9	53.4	64.3	17.5	9.9	C33-34
Other thoracic organs	18	0.0	0.5	0.0	0.0	1.2	0.0	0.0	0.0	0.8	2.0	0.0	1.0	1.3	1.4	2.0	0.6	0.7	0.5	C37-38
Bone	46	0.0	1.9	0.2	1.7	4.4	0.7	2.7	0.0	1.5	1.4	0.4	0.0	2.7	2.1	4.1	4.5	1.7	1.5	C40-C41
Melanoma of skin	25	0.0	0.0	0.0	0.0	1.4	0.0	1.6	0.0	1.2	0.0	1.0	0.2	1.7	3.1	1.7	3.5	0.9	0.6	C43
Other skin	227	0.0	0.0	0.0	0.0	4.6	0.0	2.7	5.3	3.3	4.2	5.7	11.5	12.5	15.0	28.0	48.6	8.2	4.5	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	38	0.0	0.9	0.0	0.0	2.0	1.9	2.7	0.7	0.6	2.3	2.6	0.3	2.7	0.7	0.0	3.1	1.4	1.1	C47,C49
Breast	1791	0.0	0.0	0.0	0.0	9.3	20.5	60.4	80.5	95.2	123.4	118.1	112.6	110.0	90.1	74.7	52.3	64.8	44.0	C50
Vulva	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.8	0.0	0.0	1.5	0.0	2.0	5.1	0.6	0.3	C51
Vagina	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.4	0.3	1.1	0.0	1.4	1.0	0.3	0.2	C52
Cervix uteri	598	0.0	0.0	0.0	0.0	1.2	18.1	48.3	27.9	25.0	35.4	30.8	35.4	29.6	23.8	23.6	19.1	21.6	15.4	C53
Corpus uteri	349	0.0	0.0	0.0	0.0	1.2	1.9	9.7	8.7	9.9	14.4	21.4	36.4	35.3	20.7	23.0	10.2	12.6	8.0	C54
Uterus unspecified	30	0.0	0.0	0.0	0.0	0.0	0.9	1.6	2.5	0.0	1.1	2.1	3.2	1.5	0.0	0.0	2.4	1.1	0.7	C55
Ovary	269	0.0	0.0	0.0	2.9	4.6	5.0	8.8	11.7	14.1	13.8	14.4	16.1	15.2	14.5	13.9	11.8	9.7	6.9	C56
Other female genital organs	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.1	C57
Placenta	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C58
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63
Kidney	46	0.0	0.0	0.0	0.4	0.0	2.0	2.7	0.0	0.8	1.8	2.1	4.5	2.8	3.1	1.4	3.9	1.7	1.1	C64
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	C65
Ureter	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.4	0.0	0.0	1.2	0.2	0.1	C66
Bladder	53	0.0	0.0	0.0	0.0	0.0	0.9	1.4	0.7	1.5	1.2	0.6	1.3	4.9	2.1	8.4	10.4	1.9	1.1	C67
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C68
Eye	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.2	0.0	0.0	C69
Brain, nervous system	75	0.0	3.3	0.0	0.2	1.4	1.9	5.9	4.0	2.0	4.1	4.1	2.6	3.2	1.7	5.1	2.4	2.7	2.2	C70-72
Thyroid	294	0.0	0.0	1.2	2.1	4.0	12.2	21.8	22.5	20.8	14.0	14.4	8.6	5.3	9.5	10.5	9.0	10.6	8.3	C73
Adrenal gland	3	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	C74
Other endocrine	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.4	0.0	0.4	0.0	0.0	0.0	0.2	0.1	C75
Hodgkin disease	10	0.0	0.0	0.0	1.3	1.4	0.9	0.0	0.8	0.8	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.3	0.4	C81
Non-Hodgkin lymphoma	202	0.8	1.2	0.0	1.5	6.4	5.4	8.4	5.7	5.6	8.6	6.0	8.6	8.2	10.7	24.0	20.5	7.3	5.2	C82-85,C96
Multiple myeloma	34	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.8	0.0	0.8	0.6	3.3	3.4	2.4	7.8	1.6	1.2	0.8	C90
Lymphoid leukemia	11	0.8	1.4	0.2	0.0	1.2	0.7	0.0	0.0	0.8	0.0	0.0	0.0	1.1	0.2	0.3	0.0	0.4	0.5	C91
Myeloid leukemia	54	0.0	0.0	0.0	0.0	1.4	1.9	1.6	2.8	1.5	1.2	1.8	1.6	4.0	6.2	5.7	2.8	1.9	1.4	C92-94
Leukemia unspecified	26	1.0	0.5	0.0	1.7	1.4	0.0	2.9	0.8	0.0	1.4	0.0	0.3	0.4	1.0	2.0	2.6	0.9	0.9	C95
Myelodysplastic disease	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D45-D47
Other and unspecified	137	1.8	0.0	0.0	2.1	2.2	1.7	0.0	0.8	4.4	2.0	5.0	8.5	8.5	11.4	16.6	19.7	4.9	3.1	O&U
All sites	**6,637**	**4.3**	**9.6**	**1.6**	**14.5**	**67.7**	**89.4**	**221.0**	**215.8**	**237.5**	**302.4**	**335.1**	**394.2**	**410.7**	**408.2**	**508.4**	**550.6**	**239.9**	**156.5**	**ALL**

4.6 Health Regions 6

Health Regions 6 is located in the central and eastern part of Thailand, consists of 8 provinces : Samut Prakan, Chon buri, Rayong, Chanthaburi, Trat, Chachoengsao, Prachin Buri and Sa Kaeo. The health region has a population-based cancer registry in Chon buri, Rayong and Chanthaburi. The estimated population in 2020 was 7,468,334 with 3,632,467 males and 3,835,867 females. New cases were registered in 2020; 7,877 were males and 8,924 were females, making 16,801 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 165.1 per 100,000, with liver and bile duct ranking first (ASR = 26.8) colon and rectum (ASR = 25.1) and trachea, bronchus and lung (ASR = 23.9). The ASR of all cancer in females was 157.7 per 100,000, the three leading sites being breast (ASR = 41.3) followed by colon and rectum (ASR = 16.5) and cervix uteri (ASR = 13.8).

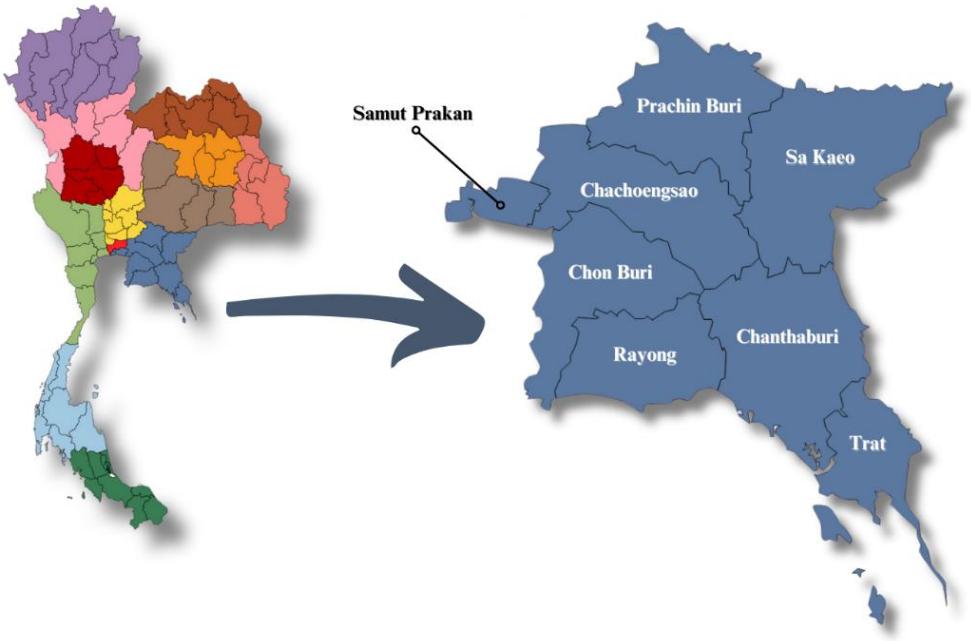


Figure 4.6.1 Leading cancer in Health Regions 6 (mean annual ASR 2019-2021)

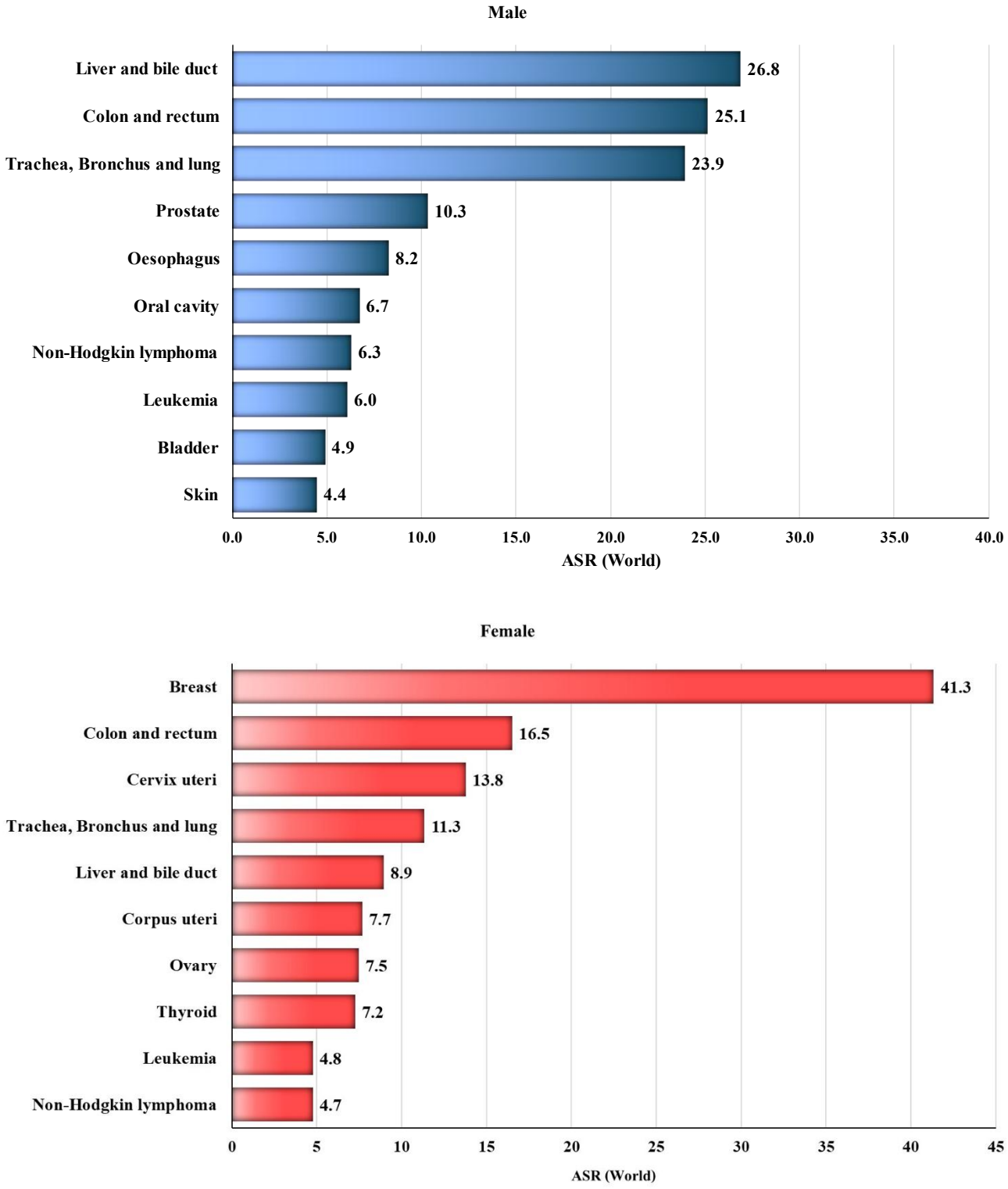


Table 4.6.1 Health Regions 6 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group – Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.4	2.2	0.1	0.1	C00
Tongue	170	0.0	0.0	0.0	0.0	0.3	0.2	0.7	2.0	2.7	6.7	8.8	11.9	14.8	12.6	22.3	15.4	4.7	3.4	C01-02
Mouth	119	0.2	0.0	0.0	0.3	0.6	0.2	0.1	1.1	2.4	3.5	4.9	7.2	11.5	10.2	13.9	16.3	3.3	2.4	C03-06
Salivary glands	35	0.0	0.0	0.0	0.0	0.3	0.2	0.3	0.4	1.1	2.0	1.0	1.4	2.5	3.5	4.6	2.8	1.0	0.7	C07-08
Tonsil	69	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.1	1.7	4.0	4.6	6.8	3.8	4.0	5.5	3.8	1.9	1.3	C09
Other oropharynx	57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.4	2.3	2.9	5.4	6.0	4.3	1.3	5.6	1.6	1.1	C10
Nasopharynx	126	0.0	0.0	0.0	0.0	0.6	0.4	1.5	2.4	4.8	5.9	6.3	6.5	11.2	5.1	13.0	5.3	3.5	2.5	C11
Hypopharynx	124	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.2	5.1	4.7	9.6	11.9	13.4	10.5	13.2	3.4	2.5	C12-13
Pharynx unspecified	5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.3	0.3	0.2	0.8	0.4	0.6	0.1	0.1	C14
Oesophagus	407	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.3	12.0	20.3	35.5	36.6	48.5	49.6	38.2	11.2	8.2	C15
Stomach	161	0.0	0.0	0.0	0.3	0.0	0.2	0.7	0.5	1.7	5.3	5.6	8.8	11.5	16.1	18.9	38.5	4.4	3.3	C16
Small intestine	30	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.7	0.3	1.6	3.0	1.5	4.3	6.3	0.6	0.8	0.6	C17
Colon	722	0.0	0.0	0.0	0.5	0.4	3.3	2.0	3.9	7.4	12.7	20.0	40.0	63.9	88.4	124.5	144.7	19.9	15.1	C18
Rectum	471	0.0	0.0	0.0	0.0	0.6	0.7	0.9	3.1	6.5	10.9	18.3	31.5	36.2	64.8	63.9	71.4	13.0	9.7	C19-20
Anus	17	0.0	0.0	0.0	0.0	0.1	0.0	0.3	1.0	0.2	0.5	0.8	0.3	2.5	2.1	0.0	0.3	0.5	0.4	C21
Liver and bile duct	1324	0.8	0.2	0.0	0.8	0.3	1.5	4.0	9.6	20.1	42.2	61.6	95.2	121.2	126.6	155.2	164.8	36.5	26.8	C22,C24
Gallbladder	28	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.3	0.8	0.9	1.8	1.9	1.9	6.3	5.3	0.8	0.6	C23
Pancreas	142	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.7	2.3	3.4	6.1	7.9	9.6	15.8	19.8	28.5	3.9	2.9	C25
Nose, sinuses etc.	28	0.0	0.2	0.2	0.0	0.1	0.0	0.1	0.8	0.3	1.6	1.7	1.0	2.5	2.7	0.8	1.9	0.8	0.6	C30-31
Larynx	165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.3	4.5	5.9	11.9	14.0	21.4	21.9	26.6	4.5	3.4	C32
Trachea, Bronchus and lung	1145	0.2	0.0	0.2	0.2	0.4	0.6	2.9	4.7	9.1	16.7	30.3	60.6	100.8	143.8	203.5	270.1	31.5	23.9	C33-34
Other thoracic organs	24	0.0	0.0	0.2	0.3	0.1	0.2	0.5	0.0	0.8	1.0	2.1	0.7	1.5	0.5	2.5	1.3	0.7	0.5	C37-38
Bone	44	0.2	1.0	1.6	2.0	1.0	1.3	0.4	0.3	0.3	1.5	1.0	3.1	3.5	1.1	2.5	1.3	1.2	1.2	C40-C41
Melanoma of skin	18	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.3	0.8	0.5	0.3	1.0	1.2	2.4	0.8	2.8	0.5	0.4	C43
Other skin	198	0.0	0.2	0.0	0.2	1.0	0.9	1.4	1.8	1.6	2.2	5.7	7.8	8.7	17.1	30.7	68.6	5.4	4.1	C44
Mesothelioma	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	2.1	0.6	0.1	0.1	C45
Kaposi's sarcoma	3	0.0	0.0	0.2	0.0	0.1	0.1	0.2	0.0	0.1	0.2	0.1	0.0	0.2	0.0	0.0	0.0	0.1	0.1	C46
Connective tissue	61	0.2	0.3	0.4	0.2	0.9	0.9	0.7	1.4	0.8	2.0	3.3	2.8	4.4	0.8	7.1	7.2	1.7	1.3	C47,C49
Breast	20	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.3	0.7	0.3	0.1	1.7	1.3	0.8	0.4	4.7	0.6	0.4	C50
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58
Penis	49	0.0	0.0	0.0	0.0	0.1	0.0	0.3	1.3	1.3	1.8	2.1	2.1	2.5	5.9	4.2	6.9	1.3	1.0	C60
Prostate	486	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.0	3.4	14.6	33.1	62.4	110.6	200.8	13.4	10.3	C61
Testis	35	1.0	0.2	0.2	1.0	1.3	1.2	1.7	1.8	1.0	1.3	0.7	0.1	0.4	0.5	0.4	0.9	1.0	0.9	C62
Other male genital organs	4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.6	0.0	0.0	0.0	0.4	0.9	0.1	0.1	C63
Kidney	92	1.2	0.0	0.0	0.0	0.1	0.1	0.4	0.8	2.2	1.9	3.0	4.1	10.0	10.7	16.0	9.4	2.5	2.0	C64
Renal pelvis	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.3	0.0	0.4	2.2	0.2	0.1	C65
Ureter	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.8	2.1	0.8	0.9	0.2	0.1	C66
Bladder	231	0.0	0.0	0.2	0.0	0.0	0.1	0.7	0.4	1.2	3.6	3.1	10.6	18.7	24.4	50.5	70.2	6.4	4.9	C67
Other urinary organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.0	C68
Eye	6	1.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.5	0.4	0.9	0.2	0.2	C69
Brain, nervous system	103	1.0	2.6	1.1	0.2	1.1	0.9	2.0	1.1	1.8	2.3	4.6	5.4	8.3	8.3	5.0	9.4	2.8	2.4	C70-72
Thyroid	77	0.0	0.0	0.2	0.0	0.3	1.2	1.3	2.6	3.6	1.3	2.3	4.3	3.7	5.6	7.1	6.9	2.1	1.5	C73
Adrenal gland	9	2.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.6	0.4	0.0	2.1	0.0	0.2	0.4	C74
Other endocrine	5	0.2	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.7	0.2	0.0	0.4	0.6	0.1	0.1	C75
Hodgkin disease	22	0.2	0.8	0.2	0.3	0.4	1.2	0.9	0.8	0.4	1.0	0.5	0.1	1.3	0.5	0.4	0.0	0.6	0.6	C81
Non-Hodgkin lymphoma	286	0.3	1.8	1.4	1.5	4.7	3.5	4.9	4.4	4.4	6.9	9.2	15.5	16.7	27.8	29.0	35.7	7.9	6.3	C82-85,C96
Multiple myeloma	52	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.5	0.2	0.7	1.4	3.3	4.6	8.0	6.3	10.7	1.4	1.1	C90
Lymphoid leukemia	45	4.4	3.5	0.7	0.2	1.0	0.2	0.0	0.0	0.7	0.7	0.9	0.9	2.5	3.2	0.4	6.3	1.2	1.6	C91
Myeloid leukemia	135	2.4	1.0	2.7	1.7	2.9	1.5	2.4	2.8	2.3	1.7	3.4	5.1	8.3	10.2	11.4	19.4	3.7	3.3	C92-94
Leukemia unspecified	46	0.8	1.0	0.0	1.3	0.9	0.5	0.7	0.7	0.9	0.7	0.9	0.9	3.3	4.3	4.2	7.2	1.3	1.2	C95
Myelodysplastic disease	183	1.7	0.0	0.2	0.2	0.7	1.4	1.2	0.9	1.6	3.4	4.0	7.8	11.2	15.8	28.6	54.8	5.0	3.9	D45-D47
Other and unspecified	278	0.2	0.0	0.4	0.3	0.9	2.0	0.4	1.7	4.3	5.5	10.5	16.0	17.5	36.4	36.6	52.6	7.6	5.8	O&U
All sites	**7,877**	**18.0**	**12.7**	**10.0**	**11.9**	**21.7**	**25.9**	**35.7**	**58.7**	**103.5**	**182.6**	**270.6**	**457.6**	**629.7**	**839.9**	**1,104.7**	**1,439.5**	**216.8**	**165.1**	**ALL**

Table 4.6.2 Health Regions 6 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group – Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	13	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.1	0.0	0.1	0.0	0.0	1.5	1.0	4.8	0.3	0.2	C00
Tongue	64	0.0	0.0	0.0	0.0	0.6	0.3	0.1	0.2	1.1	2.4	1.4	2.5	2.5	5.7	6.8	10.8	1.7	1.1	C01-02
Mouth	68	0.2	0.0	0.0	0.0	0.0	1.1	1.1	1.2	0.7	0.8	0.6	2.6	3.7	5.7	9.8	9.9	1.8	1.2	C03-06
Salivary glands	32	0.0	0.0	0.0	0.0	0.7	1.0	1.2	0.7	0.7	1.2	1.2	1.3	1.2	0.4	1.0	1.9	0.8	0.6	C07-08
Tonsil	11	0.2	0.0	0.0	0.0	0.3	0.0	1.0	0.3	0.5	0.0	0.3	0.8	0.2	0.0	0.7	0.2	0.3	0.2	C09
Other oropharynx	5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.2	0.2	0.3	1.2	0.1	0.1	C10
Nasopharynx	57	0.0	0.2	0.0	0.0	0.1	0.1	2.7	1.0	1.9	2.4	2.9	1.4	1.5	3.7	2.9	2.7	1.5	1.0	C11
Hypopharynx	11	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.6	1.2	1.1	1.0	0.6	0.3	0.2	C12-13
Pharynx unspecified	1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	C14
Oesophagus	71	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.3	1.2	2.0	3.9	2.5	6.8	12.4	10.8	1.8	1.2	C15
Stomach	161	0.0	0.0	0.0	0.0	0.1	1.5	0.8	1.8	4.8	4.5	5.9	8.9	5.0	10.1	13.0	21.9	4.2	2.7	C16
Small intestine	29	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.7	0.5	0.3	1.8	1.7	4.4	2.9	2.7	0.8	0.5	C17
Colon	659	0.0	0.0	0.0	0.2	1.0	1.0	4.3	5.1	8.0	14.3	23.1	33.4	40.6	52.2	69.8	96.6	17.2	11.1	C18
Rectum	302	0.0	0.0	0.0	0.2	0.3	0.3	2.2	2.9	4.5	6.0	13.8	16.4	20.7	27.0	24.8	33.7	7.9	5.1	C19-20
Anus	15	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.6	0.9	0.8	0.5	0.7	0.7	2.1	0.4	0.2	C21
Liver and bile duct	533	0.0	0.2	0.0	0.2	0.3	0.6	1.0	2.4	5.3	9.0	14.0	26.3	33.4	48.2	70.5	90.6	13.9	8.9	C22,C24
Gallbladder	41	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.7	0.0	0.1	2.3	2.2	4.4	7.8	7.2	1.1	0.7	C23
Pancreas	139	0.0	0.0	0.0	0.0	0.1	0.5	0.1	0.8	1.1	2.3	3.2	4.4	9.7	11.0	16.6	30.0	3.6	2.3	C25
Nose, sinuses etc.	21	0.0	0.0	0.0	0.2	0.3	0.5	0.9	0.3	0.1	0.5	1.2	0.8	0.8	1.3	1.0	1.2	0.5	0.4	C30-31
Larynx	8	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.0	0.0	0.3	0.4	0.7	1.5	0.3	0.4	0.2	0.2	C32
Trachea, Bronchus and lung	675	0.0	0.0	0.0	0.0	0.9	0.2	1.1	3.8	5.3	11.7	21.9	32.8	48.3	66.4	70.8	109.0	17.6	11.3	C33-34
Other thoracic organs	16	0.0	0.2	0.0	0.0	0.3	0.0	0.1	0.2	0.3	0.6	0.3	0.9	1.0	1.8	1.0	1.4	0.4	0.3	C37-38
Bone	35	0.2	1.2	1.3	1.2	1.6	0.6	1.0	0.2	0.6	0.5	0.3	0.1	1.5	2.4	2.0	3.1	0.9	0.9	C40-C41
Melanoma of skin	19	0.0	0.0	0.0	0.0	0.3	0.1	0.5	0.1	0.5	0.0	0.4	0.3	0.7	2.0	1.0	4.6	0.5	0.3	C43
Other skin	231	0.0	0.0	0.0	0.9	1.4	0.8	1.1	2.6	1.7	3.7	4.0	7.4	9.5	19.1	28.0	52.8	6.0	3.9	C44
Mesothelioma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	C45
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	52	0.0	0.5	0.0	0.0	0.9	0.8	1.1	1.0	1.7	1.0	2.3	2.6	1.5	1.8	2.9	5.0	1.4	1.0	C47,C49
Breast	2370	0.0	0.0	0.0	0.0	2.6	9.8	31.6	49.4	78.4	113.4	120.5	132.7	124.8	115.3	122.6	86.5	61.8	41.3	C50
Vulva	20	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.2	0.2	0.0	0.6	1.2	2.2	2.0	5.0	0.5	0.3	C51
Vagina	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.2	0.8	0.3	1.1	2.3	2.5	0.4	0.2	C52
Cervix uteri	783	0.0	0.0	0.0	0.0	1.6	9.3	25.5	23.3	25.0	31.7	31.4	34.1	33.4	31.6	24.8	42.2	20.4	13.8	C53
Corpus uteri	434	0.0	0.0	0.2	0.2	0.6	0.9	5.9	5.2	7.3	11.6	19.9	32.5	36.3	34.9	29.0	17.0	11.3	7.7	C54
Uterus unspecified	28	0.0	0.0	0.0	0.0	0.0	0.3	0.6	1.0	0.1	1.2	1.0	1.8	2.7	1.1	1.0	0.8	0.7	0.5	C55
Ovary	407	0.0	0.0	0.9	3.5	2.7	3.7	5.7	7.8	12.6	15.2	17.5	18.8	20.2	22.4	26.4	22.3	10.6	7.5	C56
Other female genital organs	7	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.4	0.1	0.6	0.0	0.0	0.2	1.3	0.0	0.0	0.2	0.1	C57
Placenta	8	0.0	0.0	0.0	0.0	0.1	0.2	0.6	0.2	0.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C58
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63
Kidney	57	0.9	0.0	0.0	0.2	0.0	0.7	1.7	0.4	0.7	1.6	2.5	2.7	4.3	1.1	4.9	5.4	1.5	1.1	C64
Renal pelvis	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.6	0.0	0.0	C65
Ureter	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.3	1.1	2.0	1.7	0.2	0.1	C66
Bladder	74	0.0	0.0	0.0	0.2	0.0	0.3	0.5	0.4	0.5	0.4	1.6	2.2	4.0	5.7	12.7	16.1	1.9	1.2	C67
Other urinary organs	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.2	0.1	0.0	C68
Eye	3	1.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.2	0.1	0.2	C69
Brain, nervous system	108	1.8	2.7	1.1	1.0	0.6	1.8	2.9	1.9	2.5	3.0	3.5	3.5	4.8	3.7	3.3	9.1	2.8	2.4	C70-72
Thyroid	388	0.0	0.0	0.4	1.7	3.3	9.3	13.8	13.5	14.3	16.6	12.1	15.2	11.0	13.8	14.7	9.7	10.1	7.2	C73
Adrenal gland	5	1.1	0.2	0.2	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.2	0.1	0.2	C74
Other endocrine	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.2	0.0	0.7	0.0	0.1	0.1	C75
Hodgkin disease	24	0.0	0.0	0.0	1.6	1.6	1.6	0.6	0.5	0.3	0.6	0.0	0.0	1.3	1.3	0.7	0.4	0.6	0.6	C81
Non-Hodgkin lymphoma	252	1.1	1.3	0.0	0.5	3.3	3.2	3.7	3.5	4.7	6.6	8.9	12.3	13.2	17.3	20.2	21.1	6.6	4.7	C82-85,C96
Multiple myeloma	55	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.3	0.6	0.8	0.5	3.6	3.5	5.7	10.1	7.0	1.4	1.0	C90
Lymphoid leukemia	42	4.9	3.3	0.4	0.9	0.6	0.5	0.1	0.2	0.2	0.0	0.8	0.8	1.3	2.8	4.2	2.1	1.1	1.5	C91
Myeloid leukemia	124	2.8	0.8	1.1	1.6	2.2	1.5	1.5	1.8	2.5	2.8	2.9	4.8	6.0	5.9	7.8	14.1	3.2	2.7	C92-94
Leukemia unspecified	32	0.4	0.2	0.0	0.3	0.4	0.0	1.1	0.6	0.6	1.1	0.3	1.5	1.3	1.5	2.9	2.7	0.8	0.6	C95
Myelodysplastic disease	183	0.0	0.2	0.0	0.2	0.6	1.0	1.0	1.3	2.6	2.5	2.5	6.8	9.2	12.1	24.8	40.6	4.8	3.0	D45-D47
Other and unspecified	220	0.5	0.0	0.2	0.3	0.9	0.9	0.6	1.1	3.8	3.3	5.9	11.5	12.4	18.9	18.6	38.9	5.7	3.7	O&U
All sites	**8,924**	**15.0**	**11.0**	**5.9**	**15.1**	**31.0**	**55.5**	**120.4**	**138.5**	**198.8**	**279.0**	**333.7**	**439.5**	**483.3**	**580.2**	**684.9**	**853.5**	**232.6**	**157.7**	**ALL**

4.7 Health Regions 7

Health Regions 7 is located in the northeastern part of Thailand, consists of 4 provinces : Khon Kaen, Maha Sarakham, Roi Et and Kalasin. The estimated population in 2020 was 4,369,567 with 2,107,300 males and 2,262,267 females. The health region has a population-based cancer registry in Khon Kaen. New cases were registered in 2020 included 4,405 males and 4,348 females, making 8,753 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 126.8 per 100,000 with liver and bile duct cancer ranking first (ASR = 38.8) followed by trachea, bronchus and lung (ASR = 16.7), colon and rectum (ASR = 15.6). The ASR of all cancer in females was 117.7 per 100,000, the three leading cancer sites being breast (ASR = 29.5) followed by colon and rectum (ASR 11.8) and liver and bile duct (ASR = 11.7).

Figure 4.7.1 Leading cancer in Health Regions 7 (mean annual ASR 2019-2021)

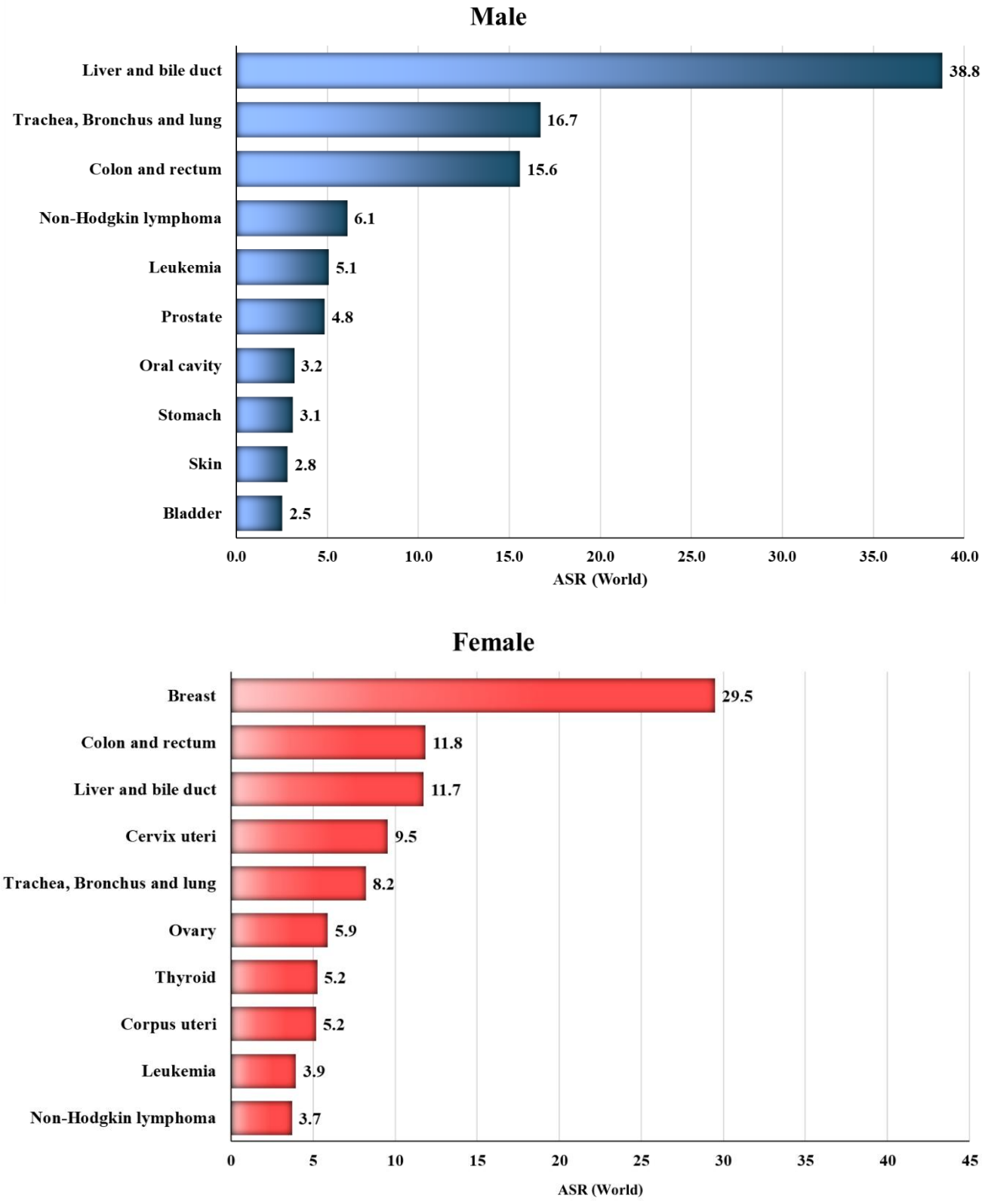


Table 4.7.1 Health Regions 7 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.5	0.1	0.0	C00
Tongue	50	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.4	2.8	4.5	5.5	4.1	4.8	4.5	5.6	5.2	2.4	1.5	C01-02
Mouth	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.6	2.8	1.7	5.3	4.6	4.2	6.4	5.6	2.0	1.3	C03-06
Salivary glands	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1	0.8	1.2	0.9	1.4	2.1	1.5	0.5	0.3	C07-08
Tonsil	24	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.7	1.7	2.0	4.3	2.8	1.7	1.5	1.1	0.7	C09
Other oropharynx	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.1	1.6	1.6	0.0	0.0	0.0	0.3	0.2	C10
Nasopharynx	73	0.0	0.0	0.2	0.9	0.6	0.0	1.9	3.8	3.9	5.1	4.5	6.7	9.3	7.6	7.7	4.1	3.4	2.4	C11
Hypopharynx	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	2.8	2.5	1.6	2.5	1.4	2.1	1.9	1.0	0.7	C12-13
Pharynx unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	C14
Oesophagus	74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.3	4.7	7.4	10.0	8.2	8.7	5.6	6.3	3.5	2.1	C15
Stomach	107	0.0	0.0	0.0	0.0	0.0	0.0	2.3	3.5	3.3	3.6	4.3	6.9	11.6	15.8	26.1	18.9	5.1	3.1	C16
Small intestine	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.6	1.8	2.3	5.6	3.0	0.9	0.5	C17
Colon	283	0.0	0.0	0.2	0.0	0.0	1.6	4.2	7.6	5.9	7.7	11.9	24.8	33.7	43.7	48.3	55.7	13.4	8.0	C18
Rectum	261	0.0	0.0	0.2	0.0	0.2	1.1	1.1	4.5	4.4	7.9	14.9	22.6	33.0	41.8	38.5	50.1	12.4	7.2	C19-20
Anus	13	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.3	1.3	0.4	1.1	0.8	1.4	1.1	2.1	1.5	0.6	0.4	C21
Liver and bile duct	1386	0.9	0.6	0.0	0.0	0.2	1.6	8.7	21.8	29.6	59.7	86.1	128.8	199.8	175.5	224.4	204.7	65.8	38.8	C22,C24
Gallbladder	36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	3.1	3.0	5.6	6.0	14.5	1.7	0.9	C23
Pancreas	57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.5	2.8	3.4	5.5	4.1	7.3	9.0	14.5	2.7	1.6	C25
Nose, sinuses etc.	14	0.0	0.0	0.0	0.2	0.2	0.0	0.4	0.0	0.8	0.0	1.5	2.2	1.6	1.1	2.1	0.4	0.7	0.4	C30-31
Larynx	53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	1.3	2.8	3.2	4.3	7.5	4.8	9.4	8.9	2.5	1.5	C32
Trachea, Bronchus and lung	613	0.0	0.0	0.0	0.0	0.0	1.6	2.3	10.4	11.6	18.8	27.6	42.5	67.1	102.4	118.4	139.3	29.1	16.7	C33-34
Other thoracic organs	13	0.0	0.0	0.0	0.7	0.7	0.3	0.0	0.0	1.8	0.2	0.0	0.6	1.1	1.4	2.1	1.5	0.6	0.5	C37-38
Bone	24	0.0	1.4	1.3	1.3	0.4	0.3	0.8	1.0	0.0	0.9	2.1	0.8	2.7	2.5	1.3	1.1	1.1	1.0	C40-C41
Melanoma of skin	14	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.8	1.0	1.6	1.7	2.6	4.5	0.6	0.4	C43
Other skin	88	0.0	0.0	0.0	0.0	0.0	0.3	1.5	2.8	2.1	1.9	2.1	6.3	7.1	10.4	17.9	30.1	4.2	2.4	C44
Mesothelioma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.0	0.0	C45
Kaposi's sarcoma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	22	0.0	0.3	0.4	0.2	0.2	0.3	2.3	0.3	0.3	1.3	1.9	3.1	0.2	1.7	3.4	1.9	1.0	0.8	C47,C49
Breast	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.2	1.1	1.1	0.0	2.2	0.4	0.2	C50
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58
Penis	31	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.7	1.5	1.1	0.9	2.4	3.9	3.7	6.4	5.9	1.5	0.9	C60
Prostate	194	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.5	5.1	20.7	40.1	54.3	67.6	9.2	4.8	C61
Testis	17	0.3	0.0	0.4	0.2	1.9	1.1	3.0	1.7	0.8	0.9	0.8	0.6	0.7	0.0	1.3	0.0	0.8	0.8	C62
Other male genital organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.4	0.4	0.1	0.0	C63
Kidney	44	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.1	1.8	1.3	2.3	4.1	7.7	4.2	6.8	5.6	2.1	1.3	C64
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.4	0.4	0.1	0.0	C65
Ureter	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.8	0.0	1.1	0.1	0.1	C66
Bladder	96	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.0	1.3	2.3	4.0	4.9	11.4	10.4	24.4	30.1	4.6	2.5	C67
Other urinary organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.0	0.0	0.0	0.0	C68
Eye	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.7	1.4	0.0	1.1	0.2	0.1	C69
Brain, nervous system	58	0.0	1.4	2.2	0.9	0.2	0.8	2.6	2.4	2.3	4.3	2.6	3.7	3.0	8.7	6.0	5.9	2.7	2.1	C70-72
Thyroid	30	0.0	0.0	0.0	0.0	0.2	0.3	1.5	0.7	1.5	1.9	1.5	3.1	3.6	2.8	3.8	3.7	1.4	1.0	C73
Adrenal gland	1	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	C74
Other endocrine	2	0.0	0.0	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.1	C75
Hodgkin disease	16	0.0	1.4	0.2	0.7	0.6	0.8	2.3	1.4	0.0	0.0	0.9	1.2	0.2	1.4	0.9	0.7	0.7	0.7	C81
Non-Hodgkin lymphoma	202	0.0	0.9	0.9	1.1	1.1	2.4	4.5	4.5	4.4	10.2	8.7	16.1	19.6	27.1	34.2	37.5	9.6	6.1	C82-85,C96
Multiple myeloma	45	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	1.5	3.4	4.1	5.7	5.9	8.5	7.8	2.1	1.2	C90
Lymphoid leukemia	33	3.2	6.3	2.9	0.9	0.6	0.0	0.0	1.4	0.3	1.3	0.8	1.2	1.1	1.4	1.7	3.3	1.6	1.8	C91
Myeloid leukemia	75	1.4	1.1	0.2	1.1	0.9	0.8	3.0	4.5	4.1	1.9	3.0	4.7	7.7	7.9	9.4	11.9	3.6	2.7	C92-94
Leukemia unspecified	14	0.3	0.9	0.9	0.0	0.0	0.0	0.4	0.3	0.8	0.6	0.6	0.8	0.7	1.1	1.7	2.6	0.6	0.5	C95
Myelodysplastic disease	69	0.0	0.0	0.0	0.4	0.2	0.5	0.0	2.8	2.6	2.6	4.9	3.9	5.0	7.1	10.7	20.8	3.3	2.0	D45-D47
Other and unspecified	148	0.0	0.3	0.0	0.0	0.2	1.3	3.0	1.0	3.6	6.8	7.0	13.6	14.3	17.8	30.3	29.7	7.0	4.2	O&U
All sites	**4,405**	**6.6**	**15.1**	**11.4**	**8.9**	**8.4**	**15.9**	**48.1**	**89.9**	**104.3**	**169.5**	**233.3**	**358.5**	**522.3**	**593.7**	**749.6**	**816.9**	**209.1**	**126.8**	**ALL**

Table 4.7.2 Health Regions 7 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	1.0	2.2	5.9	8.3	1.0	0.4	C00
Tongue	28	0.0	0.0	0.0	0.0	0.0	0.3	0.8	2.0	0.9	1.9	1.0	2.2	2.6	2.2	3.8	2.3	1.2	0.8	C01-02
Mouth	48	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.5	0.6	1.7	1.1	2.4	4.4	9.0	16.3	2.1	1.0	C03-06
Salivary glands	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.8	0.3	0.6	1.4	1.2	1.0	1.3	0.5	0.3	C07-08
Tonsil	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	C09
Other oropharynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.0	0.0	0.0	0.1	0.0	C10
Nasopharynx	29	0.0	0.0	0.0	0.2	0.0	0.0	2.3	2.0	1.2	2.3	1.9	2.6	2.8	2.2	1.7	1.3	1.3	0.9	C11
Hypopharynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.2	0.5	0.3	0.0	0.1	0.1	C12-13
Pharynx unspecified	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.0	0.7	0.0	0.1	0.0	C14
Oesophagus	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.9	0.4	0.7	2.1	1.0	0.4	0.2	C15
Stomach	88	0.0	0.0	0.0	0.0	0.0	0.8	1.6	4.1	3.9	3.8	4.1	7.2	7.8	11.3	11.1	6.8	3.9	2.4	C16
Small intestine	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	1.1	0.6	2.2	1.4	1.0	0.5	0.2	C17
Colon	289	0.0	0.0	0.0	0.0	0.2	1.0	3.5	6.4	5.3	13.0	17.3	18.0	26.4	32.1	37.2	43.9	12.8	7.0	C18
Rectum	192	0.0	0.0	0.0	0.0	0.4	0.3	2.3	4.1	3.9	7.4	11.3	14.0	19.1	21.0	24.7	26.3	8.5	4.7	C19-20
Anus	6	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.2	0.5	0.7	0.6	0.2	0.3	1.0	0.3	0.2	C21
Liver and bile duct	541	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.7	4.6	13.3	17.8	31.8	49.5	73.4	99.1	103.5	23.9	11.7	C22,C24
Gallbladder	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.7	0.5	2.0	3.2	5.9	5.9	10.8	1.8	0.9	C23
Pancreas	49	0.0	0.0	0.0	0.0	0.2	0.0	0.8	0.0	0.0	1.5	3.4	4.0	4.2	5.4	7.0	7.8	2.2	1.1	C25
Nose, sinuses etc.	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.0	0.0	0.6	0.7	1.4	2.3	0.3	0.2	C30-31
Larynx	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.7	0.2	0.2	0.2	1.4	0.3	0.2	0.1	C32
Trachea, Bronchus and lung	341	0.0	0.0	0.0	0.0	0.5	0.5	2.7	6.1	6.9	11.8	22.5	25.2	32.2	40.9	50.1	40.6	15.1	8.2	C33-34
Other thoracic organs	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	1.4	0.9	1.0	0.2	1.0	0.8	0.4	0.3	C37-38
Bone	19	0.0	1.2	1.2	0.6	0.0	0.0	1.2	0.7	1.2	0.0	1.4	0.7	0.6	1.0	1.4	3.3	0.9	0.7	C40-C41
Melanoma of skin	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.4	1.1	0.0	3.2	3.5	2.5	0.8	0.4	C43
Other skin	104	0.0	0.0	0.0	0.2	0.0	0.0	0.8	1.4	0.7	2.9	4.1	5.5	5.0	11.7	15.0	29.6	4.6	2.2	C44
Mesothelioma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	18	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.7	1.7	0.7	1.8	1.8	1.7	1.4	1.8	0.8	0.5	C47,C49
Breast	993	0.0	0.0	0.0	0.0	0.2	4.7	26.4	53.3	68.0	85.4	82.2	97.2	79.5	62.1	65.4	37.1	43.9	29.5	C50
Vulva	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.9	0.6	1.0	2.1	2.8	0.5	0.2	C51
Vagina	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.0	0.0	0.7	0.3	0.1	0.1	C52
Cervix uteri	291	0.0	0.0	0.0	0.0	1.1	3.9	15.9	26.8	20.4	24.4	21.1	20.8	19.5	20.3	19.5	11.0	12.9	9.5	C53
Corpus uteri	192	0.0	0.0	0.0	0.0	0.0	1.8	2.3	7.1	6.7	8.8	12.4	20.8	25.7	15.9	19.5	8.3	8.5	5.2	C54
Uterus unspecified	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.9	2.1	2.2	1.8	2.4	1.7	0.7	1.0	1.0	0.6	C55
Ovary	191	0.0	0.0	1.2	1.7	1.8	3.6	5.4	11.5	9.3	13.3	15.3	15.6	14.1	14.4	10.8	10.5	8.4	5.9	C56
Other female genital organs	8	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	1.1	0.7	1.1	0.2	0.0	1.7	0.3	0.4	0.2	C57
Placenta	4	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.3	0.0	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C58
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63
Kidney	20	0.9	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.5	0.4	0.7	2.6	2.6	1.2	2.4	2.0	0.9	0.6	C64
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.3	0.0	0.0	0.0	C65
Ureter	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.0	0.0	0.1	0.0	C66
Bladder	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.2	0.7	1.8	0.8	5.1	1.7	6.3	1.1	0.5	C67
Other urinary organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	C68
Eye	3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.3	0.0	0.1	0.2	C69
Brain, nervous system	59	0.9	1.2	0.7	0.4	0.5	1.3	2.3	1.7	2.8	5.3	4.8	3.7	2.8	3.2	5.2	4.0	2.6	2.0	C70-72
Thyroid	152	0.0	0.0	1.4	2.1	3.2	4.7	9.3	11.2	8.8	11.2	10.8	9.7	8.4	9.1	8.3	7.5	6.7	5.2	C73
Adrenal gland	1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.3	0.0	0.1	0.1	C74
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	9	0.0	0.3	0.0	0.4	0.4	1.3	0.4	1.0	0.9	0.0	0.0	0.0	1.0	0.2	0.7	0.0	0.4	0.4	C81
Non-Hodgkin lymphoma	137	2.1	0.0	0.0	0.6	0.7	1.6	2.7	2.4	2.8	7.1	5.0	7.9	13.9	15.9	18.4	17.3	6.1	3.7	C82-85,C96
Multiple myeloma	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.2	1.0	2.9	4.0	6.2	5.6	5.9	4.5	2.0	1.0	C90
Lymphoid leukemia	21	4.3	1.8	1.2	0.8	0.5	0.3	0.0	0.0	0.9	0.0	0.0	0.2	2.0	1.5	1.7	0.8	0.9	1.2	C91
Myeloid leukemia	68	2.7	0.3	1.2	1.1	1.1	1.0	1.9	4.1	3.0	3.4	1.7	2.8	6.0	5.9	5.6	7.5	3.0	2.4	C92-94
Leukemia unspecified	13	0.3	0.0	0.0	0.0	0.0	0.0	1.2	1.0	0.0	0.6	0.7	0.7	1.0	1.7	1.0	1.8	0.6	0.4	C95
Myelodysplastic disease	67	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.7	0.2	1.3	2.7	4.0	5.4	7.3	12.9	14.0	2.9	1.4	D45-D47
Other and unspecified	117	0.0	0.0	0.0	1.0	0.0	0.3	1.9	1.7	2.3	5.0	4.3	8.6	9.1	15.4	12.9	20.6	5.2	2.8	O&U
All sites	**4,348**	**12.8**	**5.1**	**6.8**	**9.5**	**10.7**	**27.6**	**90.7**	**154.4**	**162.8**	**235.8**	**263.7**	**327.8**	**368.1**	**413.5**	**485.9**	**469.8**	**192.2**	**117.7**	**ALL**

4.8 Health Regions 8

Health Regions 8 is located in the northeastern part of Thailand, consists of 7 provinces : Bueng Kan, Nong Bua Lam Phu, Udon Thani, Loei, Nongkhai, Sakon Nakhon and Nakhon Phanom. The estimated population in 2020 was 4,450,900 with 2,170,200 males and 2,280,700 females. The health region has a population-based cancer registry in Udon Thani. New cases were registered in 2020 included 4,130 males and 4,152 females, making 8,282 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 123.3 per 100,000, liver and bile duct ranking first (ASR = 37.0) followed by trachea, bronchus and lung (ASR = 18.8) and colon and rectum (ASR = 15.7). The ASR of all cancer in females was 119.3 per 100,000, the three leading cancer sites being breast (ASR = 30.6), liver and bile duct (ASR = 13.1) and colon and rectum (ASR = 11.6).

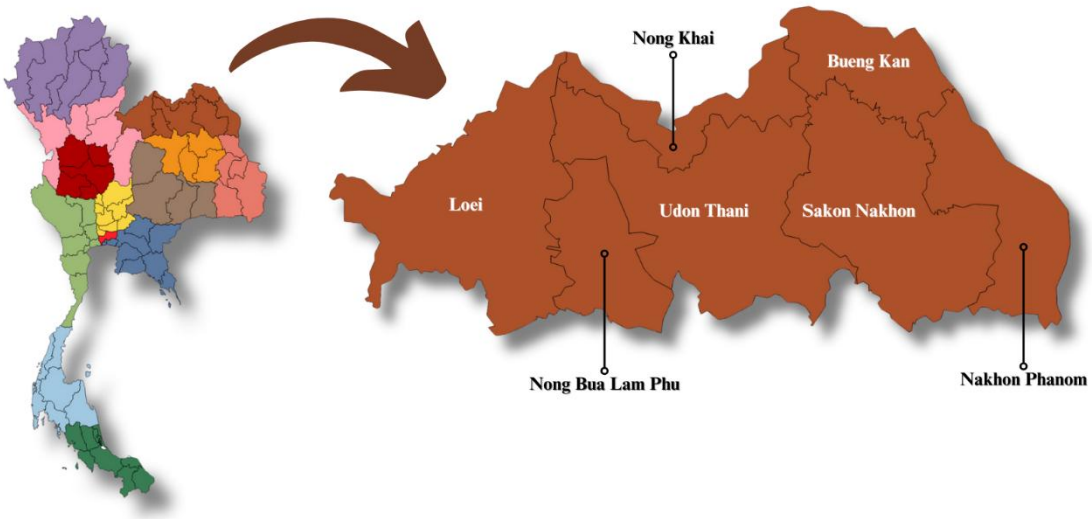


Figure 4.8.1 Leading cancer in Health Regions 8 (mean annual ASR 2019-2021)

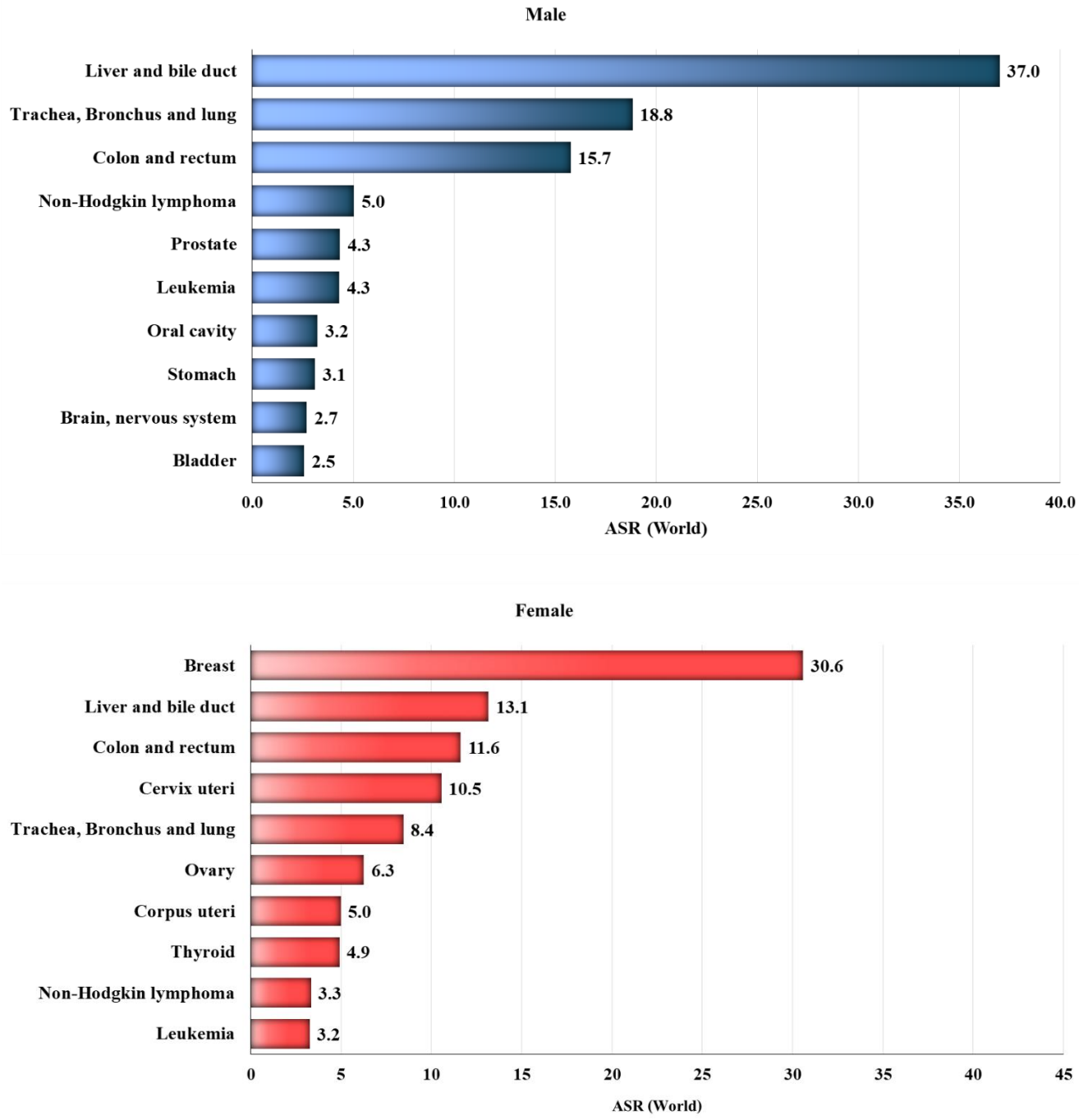


Table 4.8.1 Health Regions 8 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C00
Tongue	46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.7	3.9	6.0	4.7	4.6	3.1	4.1	3.7	2.1	1.5	C01-02
Mouth	43	0.0	0.2	0.0	0.0	0.2	0.0	0.0	1.9	4.2	3.5	1.7	4.7	3.8	4.0	7.4	4.1	2.0	1.4	C03-06
Salivary glands	11	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	1.2	0.6	1.3	0.8	0.9	3.2	1.5	0.5	0.3	C07-08
Tonsil	28	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	2.2	2.5	1.5	2.8	4.3	2.8	4.1	1.5	1.3	0.9	C09
Other oropharynx	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.2	0.2	1.5	1.5	0.3	0.0	0.0	0.3	0.2	C10
Nasopharynx	75	0.0	0.0	0.0	0.4	0.6	0.2	0.3	4.1	5.2	5.2	6.0	7.0	9.9	7.5	9.2	4.1	3.5	2.5	C11
Hypopharynx	22	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.7	2.5	2.1	2.6	2.3	2.2	3.2	0.7	1.0	0.7	C12-13
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C14
Oesophagus	65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	4.8	5.7	8.7	8.6	8.4	5.1	4.8	3.0	2.0	C15
Stomach	104	0.0	0.0	0.0	0.0	0.0	0.2	0.3	3.1	4.5	2.9	4.5	7.5	11.4	18.0	22.5	21.6	4.8	3.1	C16
Small intestine	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.5	1.1	2.3	0.9	4.1	2.6	0.6	0.4	C17
Colon	287	0.0	0.0	0.4	0.0	0.2	2.3	4.3	6.9	5.9	10.6	15.1	26.0	34.1	47.6	52.0	51.0	13.2	8.5	C18
Rectum	235	0.0	0.0	0.0	0.0	0.0	1.4	2.3	3.8	5.0	7.7	14.3	22.0	30.8	37.6	41.4	41.3	10.8	6.8	C19-20
Anus	11	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.7	0.6	1.1	1.3	2.3	0.6	0.5	1.1	0.5	0.4	C21
Liver and bile duct	1273	0.0	0.2	0.0	0.0	0.2	0.9	8.9	18.6	28.5	53.7	76.0	117.3	182.3	179.1	229.5	226.7	58.7	37.0	C22,C24
Gallbladder	39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	1.3	3.6	3.3	7.5	7.8	13.8	1.8	1.0	C23
Pancreas	49	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	1.5	2.9	3.8	4.1	4.1	7.2	6.4	12.3	2.3	1.4	C25
Nose, sinuses etc.	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	1.5	1.7	2.3	0.3	3.2	0.0	0.6	0.4	C30-31
Larynx	45	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.9	1.2	2.5	2.8	3.2	6.6	4.4	6.9	10.1	2.1	1.4	C32
Trachea, Bronchus and lung	662	0.2	0.0	0.0	0.0	0.2	0.9	2.6	10.7	12.1	20.1	32.1	52.7	75.2	112.9	132.9	159.3	30.5	18.8	C33-34
Other thoracic organs	13	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.6	2.0	0.0	0.2	0.6	0.3	2.2	3.2	2.6	0.6	0.4	C37-38
Bone	32	0.5	0.5	1.8	1.3	1.1	0.0	0.0	0.3	0.0	0.6	2.6	2.3	4.3	3.4	3.2	2.2	1.5	1.1	C40-C41
Melanoma of skin	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	2.0	1.2	0.5	3.4	0.4	0.2	C43
Other skin	66	0.0	0.0	0.0	0.0	0.2	0.0	2.6	1.6	1.2	2.3	2.6	4.7	5.8	8.1	12.9	20.8	3.1	1.9	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	20	0.0	0.5	0.2	0.0	0.0	0.0	0.7	0.0	0.7	1.0	2.1	2.3	0.0	2.2	4.1	3.7	0.9	0.6	C47,C49
Breast	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	0.2	0.6	0.3	2.8	0.5	1.1	0.4	0.2	C50
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58
Penis	26	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.3	2.0	0.4	0.8	2.3	3.1	3.4	7.8	4.1	1.2	0.8	C60
Prostate	164	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	2.3	4.3	18.3	33.6	48.8	64.0	7.6	4.3	C61
Testis	12	0.0	0.0	0.0	0.2	1.1	1.2	3.3	0.3	0.5	0.6	0.6	0.4	0.0	0.0	0.5	0.4	0.5	0.5	C62
Other male genital organs	1	0.2	0.0	0.0	0.0	0.0	0.2	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C63
Kidney	34	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3	1.2	2.1	2.1	3.2	5.6	4.7	5.1	3.0	1.6	1.1	C64
Renal pelvis	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.5	0.0	0.5	0.0	0.1	0.1	C65
Ureter	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	C66
Bladder	93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.5	3.8	5.8	10.7	11.8	24.8	29.0	4.3	2.5	C67
Other urinary organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3	0.0	0.0	0.0	0.0	C68
Eye	5	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.7	0.6	0.0	0.2	0.0	0.9	0.5	0.4	0.2	0.2	C69
Brain, nervous system	70	0.7	1.2	3.2	0.9	0.0	2.8	2.6	4.1	2.5	4.2	2.8	5.8	3.8	9.0	6.9	6.0	3.2	2.7	C70-72
Thyroid	26	0.0	0.0	0.0	0.2	0.2	0.5	1.3	0.3	1.5	1.5	1.1	1.7	2.8	3.4	3.2	4.5	1.2	0.8	C73
Adrenal gland	1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C74
Other endocrine	3	0.0	0.0	1.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.2	C75
Hodgkin disease	7	0.0	0.5	0.0	0.4	0.2	0.2	0.3	0.3	0.2	0.0	0.2	1.3	0.3	0.6	0.0	0.4	0.3	0.3	C81
Non-Hodgkin lymphoma	161	0.0	0.5	0.4	1.3	1.0	2.8	4.9	2.5	3.7	6.2	7.5	15.4	18.6	20.8	27.6	28.3	7.4	5.0	C82-85,C96
Multiple myeloma	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.7	2.8	4.9	6.9	5.9	6.9	6.0	1.9	1.2	C90
Lymphoid leukemia	26	2.0	4.6	2.0	0.4	0.8	0.0	0.0	0.9	0.5	0.2	0.8	1.3	1.5	1.2	1.4	2.6	1.2	1.3	C91
Myeloid leukemia	62	1.0	1.2	0.0	0.2	0.4	1.4	3.0	3.1	4.0	2.5	2.8	4.3	5.1	7.8	8.3	8.9	2.9	2.2	C92-94
Leukemia unspecified	19	0.2	1.0	0.4	0.0	0.4	0.2	0.7	0.6	1.5	0.6	0.6	1.9	0.5	1.2	2.8	3.7	0.9	0.7	C95
Myelodysplastic disease	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.2	1.5	2.1	2.1	1.8	3.4	5.1	9.3	1.4	0.9	D45-D47
Other and unspecified	166	0.0	0.5	0.0	0.2	0.2	2.1	5.9	3.1	3.7	6.4	8.3	13.7	16.8	22.7	31.7	35.4	7.6	5.1	O&U
All sites	**4,130**	**6.0**	**11.3**	**9.9**	**5.8**	**7.4**	**18.0**	**46.3**	**78.4**	**108.7**	**162.1**	**224.4**	**353.5**	**500.3**	**596.1**	**749.8**	**800.4**	**190.3**	**123.3**	**ALL**

Table 4.8.2 Health Regions 8 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	20	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.4	0.2	2.8	4.7	8.4	0.9	0.4	C00
Tongue	25	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.3	0.5	1.7	1.4	2.1	3.2	2.5	3.1	2.7	1.1	0.7	C01-02
Mouth	51	0.0	0.0	0.0	0.4	0.4	0.2	1.3	0.0	0.2	0.7	2.0	1.7	2.5	4.7	9.0	18.2	2.2	1.2	C03-06
Salivary glands	9	0.0	0.0	0.0	0.2	0.0	0.0	0.3	1.0	0.7	0.4	0.3	0.4	1.4	0.8	0.8	0.5	0.4	0.3	C07-08
Tonsil	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	C09
Other oropharynx	2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.4	0.0	0.1	0.1	C10
Nasopharynx	31	0.0	0.0	0.0	0.2	0.0	0.2	1.0	1.6	1.1	1.9	2.4	2.5	3.7	2.5	3.1	2.4	1.4	0.9	C11
Hypopharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	C12-13
Pharynx unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	C14
Oesophagus	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.6	0.0	0.8	2.4	1.4	0.3	0.2	C15
Stomach	81	0.0	0.0	0.0	0.0	0.0	1.1	2.3	5.4	3.4	3.4	5.4	6.2	8.0	9.5	9.0	7.1	3.6	2.4	C16
Small intestine	7	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.2	1.2	1.1	1.4	0.8	0.0	0.3	0.2	C17
Colon	273	0.0	0.0	0.0	0.4	0.8	1.4	4.6	5.1	5.0	13.7	16.3	18.0	25.0	32.3	42.7	43.1	12.0	7.1	C18
Rectum	167	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.2	4.8	7.3	10.6	14.1	18.8	20.4	25.9	17.6	7.3	4.4	C19-20
Anus	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.0	0.0	0.8	0.5	0.1	0.1	C21
Liver and bile duct	554	0.0	0.0	0.0	0.0	0.0	0.5	1.7	3.8	4.8	14.2	19.2	34.2	57.5	85.9	105.8	115.9	24.3	13.1	C22,C24
Gallbladder	39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.2	2.1	2.3	6.7	7.4	11.9	1.7	0.9	C23
Pancreas	36	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.3	3.1	2.9	4.4	4.2	4.3	6.2	1.6	0.9	C25
Nose, sinuses etc.	6	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.4	0.2	0.0	0.7	0.6	0.4	1.6	0.3	0.2	C30-31
Larynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.2	0.2	0.0	0.8	0.0	0.1	0.1	C32
Trachea, Bronchus and lung	332	0.0	0.0	0.0	0.0	0.4	0.0	3.3	5.7	6.8	11.8	21.1	24.4	35.1	43.5	52.1	48.8	14.5	8.4	C33-34
Other thoracic organs	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4	1.2	1.2	1.4	0.3	0.4	1.1	0.4	0.2	C37-38
Bone	31	0.0	0.2	1.5	0.4	0.2	0.7	0.7	1.0	0.5	0.2	2.2	1.9	0.7	3.1	3.5	7.1	1.4	0.9	C40-C41
Melanoma of skin	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.9	0.8	0.2	2.8	2.4	1.9	0.5	0.3	C43
Other skin	81	0.0	0.0	0.0	0.0	0.0	0.2	1.0	1.3	1.4	3.0	3.1	4.6	3.9	9.5	11.8	24.7	3.6	1.9	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	20	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	1.8	1.5	1.2	1.5	2.1	1.4	1.2	2.7	0.9	0.6	C47,C49
Breast	988	0.0	0.0	0.0	0.2	0.0	5.0	24.9	55.8	76.2	93.4	88.0	96.5	78.4	60.2	63.5	33.1	43.3	30.6	C50
Vulva	12	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.2	0.2	1.2	1.4	1.1	1.2	3.3	0.5	0.3	C51
Vagina	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.2	0.5	0.3	0.4	0.3	0.1	0.1	C52
Cervix uteri	310	0.0	0.0	0.0	0.0	0.6	4.3	21.9	26.9	26.2	27.5	23.1	21.7	19.5	18.4	18.8	12.8	13.6	10.5	C53
Corpus uteri	177	0.0	0.0	0.0	0.0	0.0	0.9	4.3	5.1	6.4	7.5	13.6	21.1	25.0	13.7	22.0	7.1	7.7	5.0	C54
Uterus unspecified	21	0.0	0.0	0.0	0.0	0.0	0.2	0.0	2.9	1.1	1.9	1.9	1.9	1.8	1.7	0.0	0.5	0.9	0.7	C55
Ovary	193	0.3	0.0	1.5	2.2	2.3	4.5	6.6	11.4	9.6	13.1	13.6	17.2	15.8	16.4	11.4	9.0	8.4	6.3	C56
Other female genital organs	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	1.5	0.3	0.4	0.5	0.3	0.4	0.3	0.3	0.2	C57
Placenta	3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.3	0.2	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C58
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63
Kidney	13	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.5	0.0	0.2	1.5	1.8	2.0	2.7	1.4	0.6	0.3	C64
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	C65
Ureter	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C66
Bladder	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.9	0.2	1.0	1.4	0.9	3.9	0.4	4.6	0.8	0.4	C67
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	C68
Eye	4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.6	0.0	0.3	0.2	0.3	C69
Brain, nervous system	77	1.0	1.2	0.4	0.2	0.2	2.5	3.7	2.9	3.9	7.3	6.3	5.4	3.7	4.7	4.7	6.0	3.4	2.6	C70-72
Thyroid	137	0.0	0.0	2.1	1.8	2.5	4.3	9.3	11.4	8.9	9.4	9.4	9.7	7.6	7.5	9.8	4.6	6.0	4.9	C73
Adrenal gland	1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C74
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	4	0.0	0.0	0.0	0.0	0.6	1.4	0.3	0.3	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.2	C81
Non-Hodgkin lymphoma	113	1.8	0.0	0.2	0.4	1.0	1.8	3.0	2.2	3.2	4.7	4.3	7.2	12.6	13.9	16.1	14.7	5.0	3.3	C82-85,C96
Multiple myeloma	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.6	2.4	3.3	5.0	4.2	4.7	3.0	1.4	0.8	C90
Lymphoid leukemia	15	3.4	2.0	1.3	0.4	0.4	0.0	0.3	0.0	0.9	0.0	0.0	0.0	1.1	0.3	0.0	0.5	0.6	0.9	C91
Myeloid leukemia	50	2.3	0.2	1.0	0.4	1.0	0.9	1.0	2.2	1.8	3.0	1.4	2.9	4.6	3.9	3.1	6.5	2.2	1.7	C92-94
Leukemia unspecified	19	0.5	0.2	0.2	0.0	0.0	0.0	0.7	0.6	0.0	0.4	1.5	1.5	1.6	2.5	2.0	2.7	0.8	0.6	C95
Myelodysplastic disease	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.2	1.9	3.0	3.3	6.3	6.2	1.3	0.7	D45-D47
Other and unspecified	127	0.3	0.0	0.2	0.4	0.2	0.2	1.0	4.1	2.3	4.9	4.1	8.3	10.3	16.4	19.6	27.4	5.6	3.2	O&U
All sites	**4,152**	**11.6**	**4.5**	**8.6**	**7.6**	**10.5**	**31.2**	**99.0**	**156.5**	**175.5**	**241.2**	**265.0**	**325.4**	**368.3**	**411.2**	**480.2**	**468.4**	**182.0**	**119.3**	**ALL**

4.9 Health Regions 9

Health Regions 9 is located in the northeastern part of Thailand, consists of 4 provinces : Nakhon Ratchasima, Buri Rum, Surin and Chaiyaphum. The estimated population in 2020 was 5,728,500 with 2,779,167 males and 2,949,333 females. New cases were registered in 2020 included 5,707 males and 5,648 females, making 11,355 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 122.8 per 100,000, liver and bile duct ranking first (ASR = 36.4) followed by trachea, bronchus and lung (ASR = 17.1) and colon and rectum (ASR = 15.3). The ASR of all cancer in females was 117.7 per 100,000, the three leading cancer sites being breast (ASR = 29.1) followed by liver and bile duct (ASR = 12.2) and colon and rectum (ASR = 11.5).

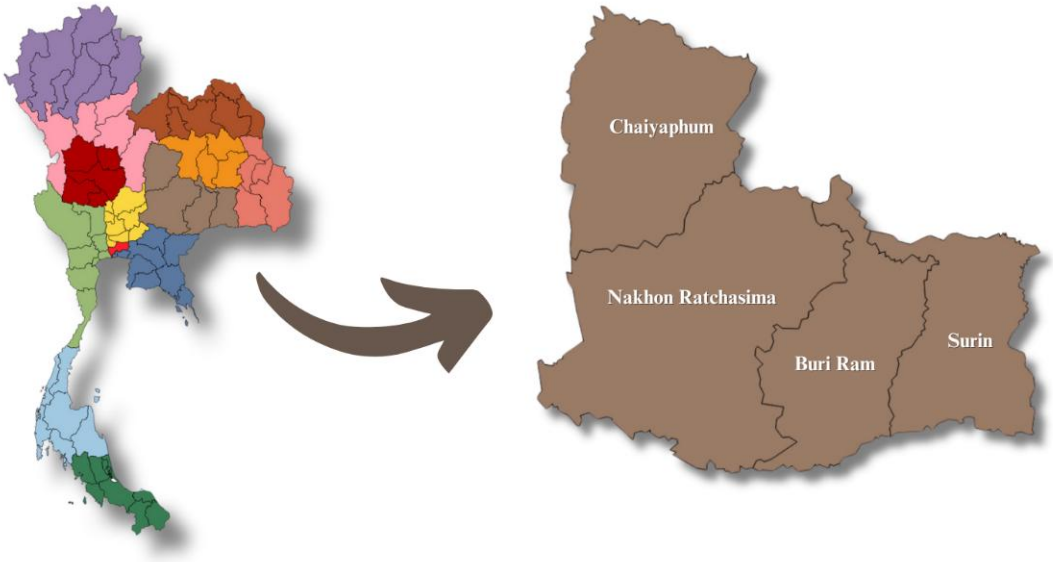


Figure 4.9.1 Leading cancer in Health Regions 9 (mean annual ASR 2019-2021)

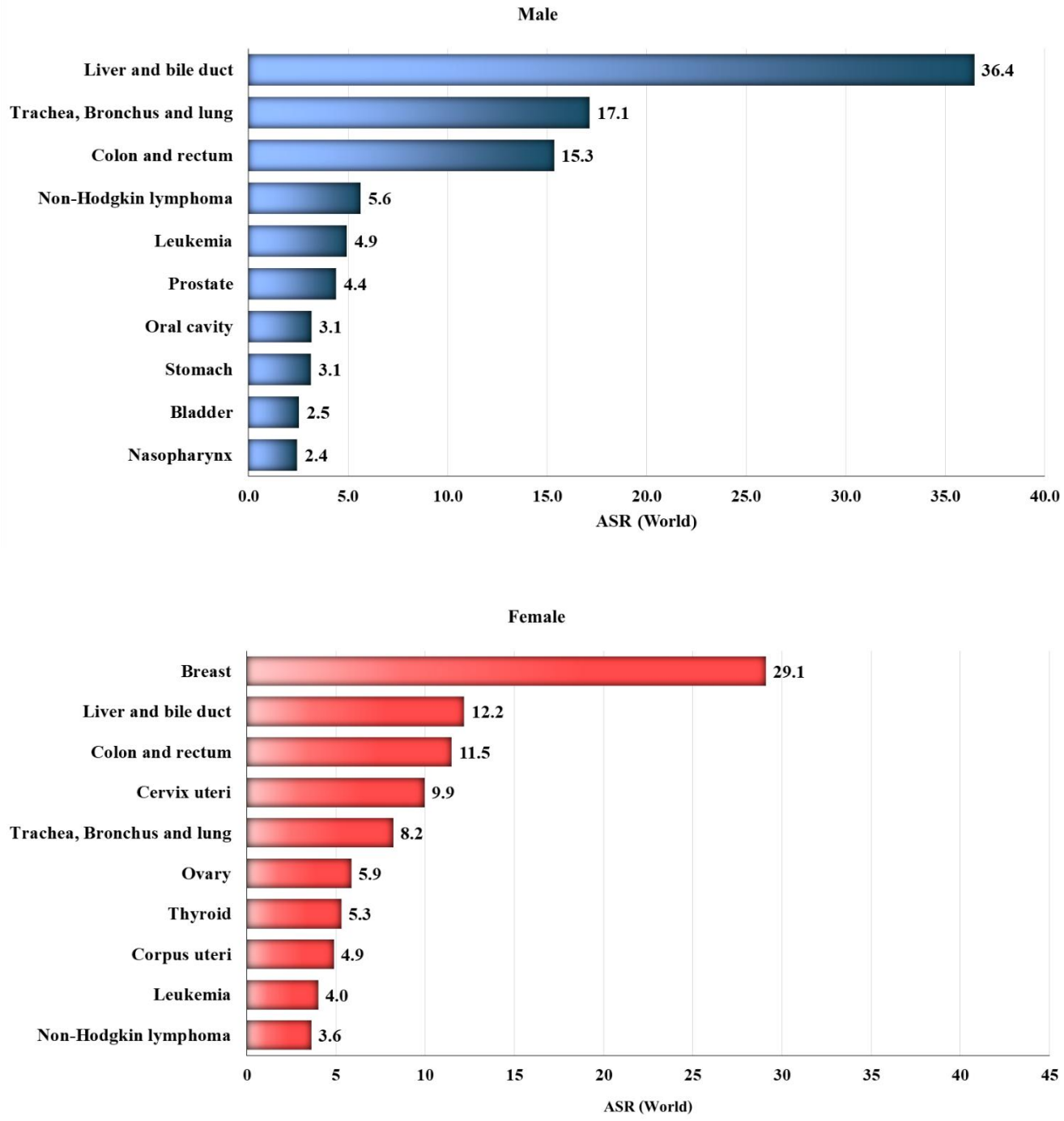


Table 4.9.1 Health Regions 9 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group – Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.9	1.1	0.1	0.1	C00
Tongue	60	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.6	2.8	3.9	5.8	3.9	4.2	3.9	5.4	4.2	2.2	1.4	C01-02
Mouth	55	0.0	0.2	0.0	0.0	0.0	0.0	0.3	1.9	2.8	3.1	1.5	4.7	4.4	3.9	7.1	5.1	2.0	1.3	C03-06
Salivary glands	16	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	1.0	0.8	1.3	0.9	1.2	2.8	1.5	0.6	0.3	C07-08
Tonsil	33	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.3	1.7	1.9	1.5	2.5	4.0	3.0	3.1	1.1	1.2	0.8	C09
Other oropharynx	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	0.0	0.8	1.7	1.3	0.0	0.9	0.0	0.4	0.2	C10
Nasopharynx	96	0.0	0.0	0.2	0.7	0.6	0.2	1.4	3.5	4.5	5.0	5.5	7.0	9.5	7.4	8.5	4.2	3.5	2.4	C11
Hypopharynx	30	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1	1.1	2.6	2.3	2.0	2.7	2.1	2.8	1.1	1.1	0.7	C12-13
Pharynx unspecified	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.0	0.3	0.7	0.1	0.0	C14
Oesophagus	88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.3	4.8	6.6	8.9	8.9	8.1	5.4	5.1	3.2	2.0	C15
Stomach	147	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.0	4.5	3.6	4.7	7.2	11.4	17.5	23.7	19.7	5.3	3.1	C16
Small intestine	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	1.5	1.0	1.9	1.2	4.0	2.2	0.7	0.4	C17
Colon	385	0.0	0.0	0.5	0.0	0.1	1.9	4.1	7.3	5.9	9.2	13.3	25.2	33.8	45.2	49.6	51.6	13.9	8.2	C18
Rectum	325	0.0	0.0	0.2	0.0	0.0	1.1	2.2	3.5	4.5	7.5	14.3	22.0	31.9	38.1	38.8	41.4	11.7	6.8	C19-20
Anus	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1	0.7	0.9	0.8	1.7	0.9	1.4	1.1	0.5	0.3	C21
Liver and bile duct	1736	0.6	0.6	0.0	0.0	0.1	1.1	8.2	19.2	26.3	53.2	79.1	117.2	185.0	170.7	220.6	210.5	62.5	36.4	C22,C24
Gallbladder	54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.9	2.9	3.0	6.2	7.1	14.4	1.9	1.0	C23
Pancreas	73	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1	1.5	2.7	3.5	4.5	4.2	7.8	8.0	12.4	2.6	1.5	C25
Nose, sinuses etc.	19	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.3	1.1	0.0	1.1	2.0	1.9	0.9	2.8	1.1	0.7	0.4	C30-31
Larynx	67	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.6	1.3	2.7	3.2	3.9	6.8	4.2	7.7	10.6	2.4	1.4	C32
Trachea, Bronchus and lung	857	0.0	0.0	0.0	0.0	0.0	1.1	3.3	10.3	10.6	18.0	29.1	44.8	71.4	101.7	124.3	143.5	30.8	17.1	C33-34
Other thoracic organs	20	0.0	0.0	0.0	0.7	0.6	0.4	0.3	0.3	1.5	0.2	0.2	0.8	0.9	2.1	2.8	2.2	0.7	0.5	C37-38
Bone	37	0.2	1.0	1.4	0.9	0.7	0.2	0.3	1.1	0.2	0.9	2.3	1.7	3.4	3.5	2.6	1.5	1.3	1.1	C40-C41
Melanoma of skin	16	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.6	0.8	1.7	1.2	1.4	3.8	0.6	0.3	C43
Other skin	102	0.0	0.0	0.2	0.0	0.0	0.4	2.2	1.6	1.5	1.9	2.4	5.4	6.3	9.0	13.7	23.0	3.7	2.1	C44
Mesothelioma	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.7	0.1	0.0	C45
Kaposi's sarcoma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	28	0.0	0.6	0.5	0.1	0.1	0.0	1.4	0.3	0.8	0.9	1.7	2.5	0.4	2.3	3.4	2.4	1.0	0.7	C47,C49
Breast	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	0.2	0.8	0.8	1.6	0.3	1.5	0.4	0.2	C50
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58
Penis	37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.3	0.9	0.8	2.7	3.4	3.0	6.8	4.2	1.3	0.8	C60
Prostate	250	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.4	4.5	18.4	35.8	49.6	61.3	9.0	4.4	C61
Testis	22	0.6	0.2	0.5	0.1	1.0	1.1	3.8	1.4	0.8	0.9	0.8	0.7	0.4	0.0	1.4	0.2	0.8	0.8	C62
Other male genital organs	4	0.0	0.2	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.9	1.1	0.1	0.1	C63
Kidney	52	0.6	0.0	0.0	0.0	0.0	0.0	0.3	1.4	1.3	1.7	2.4	3.7	6.8	4.6	5.4	3.8	1.9	1.2	C64
Renal pelvis	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.0	0.9	0.7	0.1	0.1	C65
Ureter	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.7	0.0	1.1	0.1	0.1	C66
Bladder	134	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	1.3	2.6	3.5	5.4	11.4	11.3	24.8	28.1	4.8	2.5	C67
Other urinary organs	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	0.0	0.0	0.1	0.0	C68
Eye	8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.7	0.0	0.2	0.4	1.2	0.3	1.1	0.3	0.2	C69
Brain, nervous system	84	0.6	1.2	2.9	0.7	0.1	1.5	2.5	3.0	2.3	4.3	2.7	4.7	3.8	9.2	6.3	6.0	3.0	2.4	C70-72
Thyroid	37	0.0	0.0	0.0	0.1	0.1	0.4	1.4	1.1	1.3	1.7	1.1	2.3	3.2	2.3	3.1	5.1	1.3	0.9	C73
Adrenal gland	2	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C74
Other endocrine	4	0.0	0.0	1.3	0.1	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.2	C75
Hodgkin disease	19	0.0	1.0	0.2	0.7	0.3	0.9	1.4	1.4	0.2	0.2	0.8	1.3	0.4	0.9	0.9	1.1	0.7	0.6	C81
Non-Hodgkin lymphoma	249	0.2	1.0	0.8	0.9	1.0	2.6	5.2	3.5	3.8	8.4	8.2	15.9	18.4	24.2	31.9	32.5	9.0	5.6	C82-85,C96
Multiple myeloma	57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7	3.0	4.5	5.9	5.5	8.3	6.0	2.1	1.2	C90
Lymphoid leukemia	38	1.9	5.4	2.4	0.7	0.6	0.2	0.3	1.4	0.8	0.9	0.8	1.0	0.9	1.2	1.7	2.2	1.4	1.5	C91
Myeloid leukemia	95	1.0	1.2	0.5	0.7	0.7	1.1	3.0	3.5	4.5	2.6	3.0	4.5	6.5	7.8	8.5	11.1	3.4	2.5	C92-94
Leukemia unspecified	29	0.6	1.0	0.8	0.0	0.1	0.2	1.4	1.1	1.3	0.9	0.6	1.3	0.8	1.2	3.1	4.2	1.0	0.8	C95
Myelodysplastic disease	58	0.0	0.0	0.0	0.1	0.0	0.2	0.0	1.4	1.3	1.7	2.7	2.9	3.0	4.6	6.8	12.4	2.1	1.2	D45-D47
Other and unspecified	213	0.0	0.6	0.0	0.0	0.3	1.5	4.1	1.9	3.4	6.0	7.5	13.4	15.4	19.8	30.5	33.2	7.7	4.5	O&U
All sites	**5,707**	**7.0**	**15.1**	**12.1**	**7.0**	**7.0**	**16.4**	**50.7**	**83.1**	**102.8**	**161.4**	**224.9**	**345.2**	**503.7**	**577.6**	**740.7**	**783.3**	**205.3**	**122.8**	**ALL**

Table 4.9.2 Health Regions 9 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	37	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.3	0.0	0.0	0.5	0.7	0.8	2.6	6.6	8.5	1.3	0.5	C00
Tongue	35	0.0	0.0	0.0	0.0	0.0	0.2	0.8	1.4	1.0	1.7	1.1	2.2	3.0	2.0	3.4	2.2	1.2	0.7	C01-02
Mouth	78	0.0	0.0	0.0	0.2	0.2	0.0	0.8	0.0	0.8	0.8	2.0	1.5	2.7	5.7	8.8	17.9	2.6	1.1	C03-06
Salivary glands	15	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.1	1.0	0.8	0.5	0.7	1.2	1.0	1.2	0.8	0.5	0.4	C07-08
Tonsil	3	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.0	0.2	0.0	0.1	0.1	C09
Other oropharynx	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.3	0.5	0.0	0.2	0.0	0.1	0.1	C10
Nasopharynx	38	0.0	0.0	0.0	0.2	0.0	0.2	1.4	1.4	1.0	1.8	2.2	2.5	3.4	2.0	2.4	1.7	1.3	0.8	C11
Hypopharynx	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1	0.5	0.6	0.2	0.0	0.1	0.1	C12-13
Pharynx unspecified	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.5	0.0	0.7	0.5	0.1	0.1	C14
Oesophagus	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.7	0.7	0.5	0.8	2.0	1.1	0.4	0.2	C15
Stomach	110	0.0	0.0	0.0	0.0	0.0	1.1	1.7	4.6	3.4	3.8	4.7	6.4	7.4	10.3	10.3	6.7	3.7	2.3	C16
Small intestine	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.7	0.8	1.6	1.2	0.8	0.4	0.2	C17
Colon	374	0.0	0.0	0.0	0.2	0.5	1.1	4.2	4.9	5.1	12.8	16.5	18.3	24.9	31.3	37.0	42.0	12.7	6.8	C18
Rectum	240	0.0	0.0	0.0	0.0	0.2	0.4	2.2	3.5	4.4	7.1	11.2	13.8	18.9	20.4	25.2	21.1	8.1	4.5	C19-20
Anus	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5	0.7	0.5	0.6	0.7	0.8	0.3	0.1	C21
Liver and bile duct	757	0.0	0.0	0.0	0.0	0.0	0.2	1.7	2.7	4.4	13.4	18.6	33.9	52.9	77.8	99.9	104.6	25.7	12.2	C22,C24
Gallbladder	56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.5	0.5	1.8	2.5	6.1	5.9	11.2	1.9	0.8	C23
Pancreas	57	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.2	1.5	3.5	3.3	3.9	4.6	5.4	6.7	1.9	1.0	C25
Nose, sinuses etc.	11	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.6	0.1	0.0	0.7	0.8	1.2	2.0	0.4	0.2	C30-31
Larynx	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.3	0.5	0.0	1.2	0.2	0.2	0.1	C32
Trachea, Bronchus and lung	455	0.0	0.0	0.0	0.0	0.6	0.2	3.1	4.9	6.7	12.0	21.5	25.2	32.7	41.6	50.4	44.1	15.4	8.2	C33-34
Other thoracic organs	16	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.3	1.0	0.6	1.1	1.0	1.2	0.6	1.2	1.1	0.5	0.3	C37-38
Bone	37	0.2	0.8	1.3	0.8	0.2	0.4	0.8	1.1	1.0	0.2	1.5	1.3	0.8	1.8	2.4	5.1	1.3	0.9	C40-C41
Melanoma of skin	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.2	1.1	0.7	0.0	2.6	2.4	2.2	0.6	0.3	C43
Other skin	124	0.2	0.0	0.0	0.2	0.2	0.4	0.8	1.4	1.0	2.7	3.5	4.3	4.2	9.9	12.7	24.1	4.2	2.0	C44
Mesothelioma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	24	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.3	1.3	1.5	0.7	1.5	1.7	1.8	1.2	2.0	0.8	0.5	C47,C49
Breast	1239	0.0	0.0	0.0	0.2	0.2	4.1	23.6	52.8	69.8	86.6	84.3	94.3	76.8	60.2	61.5	33.4	42.0	29.1	C50
Vulva	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.2	0.1	1.0	0.8	1.0	1.5	3.0	0.5	0.2	C51
Vagina	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.1	0.1	0.7	0.0	0.7	0.5	0.1	0.1	C52
Cervix uteri	386	0.0	0.0	0.0	0.0	0.9	3.8	18.3	26.1	22.4	26.5	22.4	22.2	19.4	19.4	18.1	12.3	13.1	9.9	C53
Corpus uteri	231	0.0	0.0	0.0	0.0	0.0	1.1	3.1	6.0	6.5	8.3	12.7	19.2	23.8	14.6	19.6	7.8	7.8	4.9	C54
Uterus unspecified	28	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.9	1.0	2.6	2.0	1.8	1.7	1.8	0.7	0.8	0.9	0.7	C55
Ovary	240	0.2	0.0	1.3	1.9	1.9	3.8	5.3	10.9	9.7	12.8	14.0	16.6	14.2	15.4	10.3	8.9	8.1	5.9	C56
Other female genital organs	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	1.2	0.7	0.7	0.5	0.0	1.2	0.5	0.4	0.2	C57
Placenta	6	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.3	0.2	0.8	0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C58
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63
Kidney	23	0.8	0.0	0.0	0.2	0.0	0.0	0.0	0.3	0.8	0.2	0.7	1.9	2.0	1.6	2.4	1.4	0.8	0.5	C64
Renal pelvis	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.7	0.0	0.1	0.0	C65
Ureter	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.7	0.5	0.1	0.0	C66
Bladder	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	0.2	0.7	1.5	0.8	4.2	1.2	5.1	1.0	0.5	C67
Other urinary organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.2	0.0	0.0	C68
Eye	6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.8	0.2	0.5	0.2	0.2	C69
Brain, nervous system	96	1.0	1.0	0.7	0.5	0.6	1.5	2.2	2.7	3.8	7.1	6.5	4.8	3.5	4.2	4.7	5.1	3.3	2.4	C70-72
Thyroid	193	0.0	0.0	1.8	1.9	2.6	4.9	9.8	11.7	9.7	11.3	10.6	9.7	8.3	8.3	9.5	5.9	6.6	5.3	C73
Adrenal gland	2	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.2	0.0	0.1	0.1	C74
Other endocrine	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	11	0.0	0.0	0.0	0.2	0.6	1.1	0.3	1.1	1.0	0.0	0.1	0.1	0.8	0.0	0.7	0.2	0.4	0.4	C81
Non-Hodgkin lymphoma	174	1.8	0.6	0.5	0.5	0.8	1.5	3.1	1.9	3.4	5.9	4.5	7.5	13.0	15.8	19.3	15.2	5.9	3.6	C82-85,C96
Multiple myeloma	51	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.1	0.2	0.8	2.4	3.6	5.6	4.6	4.9	3.7	1.7	0.9	C90
Lymphoid leukemia	26	4.1	2.0	1.3	0.8	0.5	0.2	0.0	0.3	1.0	0.0	0.1	0.3	1.2	0.8	1.2	0.8	0.9	1.1	C91
Myeloid leukemia	79	3.1	0.6	1.3	0.8	0.9	0.9	1.4	3.3	2.5	3.2	1.6	2.5	5.1	4.6	4.7	6.7	2.7	2.1	C92-94
Leukemia unspecified	29	0.8	0.6	0.0	0.2	0.0	0.0	1.4	1.4	0.2	0.8	0.8	1.3	1.7	2.6	1.5	2.8	1.0	0.7	C95
Myelodysplastic disease	58	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.3	0.0	0.9	2.0	2.5	3.5	4.6	8.3	8.5	2.0	0.9	D45-D47
Other and unspecified	174	0.2	0.0	0.0	0.8	0.2	0.2	1.4	2.7	2.9	5.1	4.1	8.4	9.9	15.6	16.9	24.6	5.9	3.1	O&U
All sites	**5,648**	**14.3**	**6.3**	**8.4**	**10.1**	**11.0**	**27.4**	**89.6**	**154.2**	**169.8**	**237.8**	**265.9**	**323.9**	**361.1**	**407.1**	**475.5**	**455.5**	**191.5**	**117.7**	**ALL**

4.10 Health Regions 10

Health Regions 10 is located in the northeastern part of Thailand, consists of 5 provinces : Si Sa Ket, Ubon Ratchathani, Yasothon, Amnat Charoen and Mukdahan. The estimated population in 2020 was 3,769,333 with 1,840,333 males and 1,929,000 females. The health region has a population-based cancer registry in Ubon Ratchathani. New cases were registered in 2020 included 3,723 males and 3,750 females, making 7,473 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 126.5 per 100,000, liver and bile duct ranking first (ASR = 36.5) followed by trachea, bronchus and lung (ASR = 17.6) and colon and rectum (ASR = 16.1). The ASR of all cancer in females was 124.2 the three leading cancer sites being breast (ASR = 30.2) followed by liver and bile duct (ASR = 12.9) and colon and rectum (ASR = 12.0).

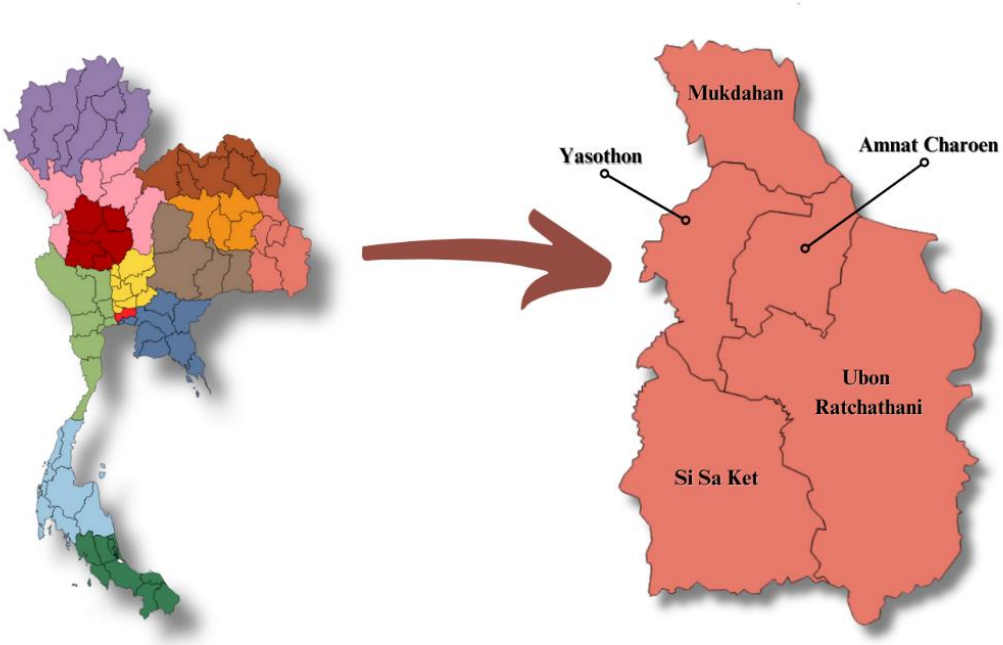


Figure 4.10.1 Leading cancer in Health Regions 10 (mean annual ASR 2019-2021)

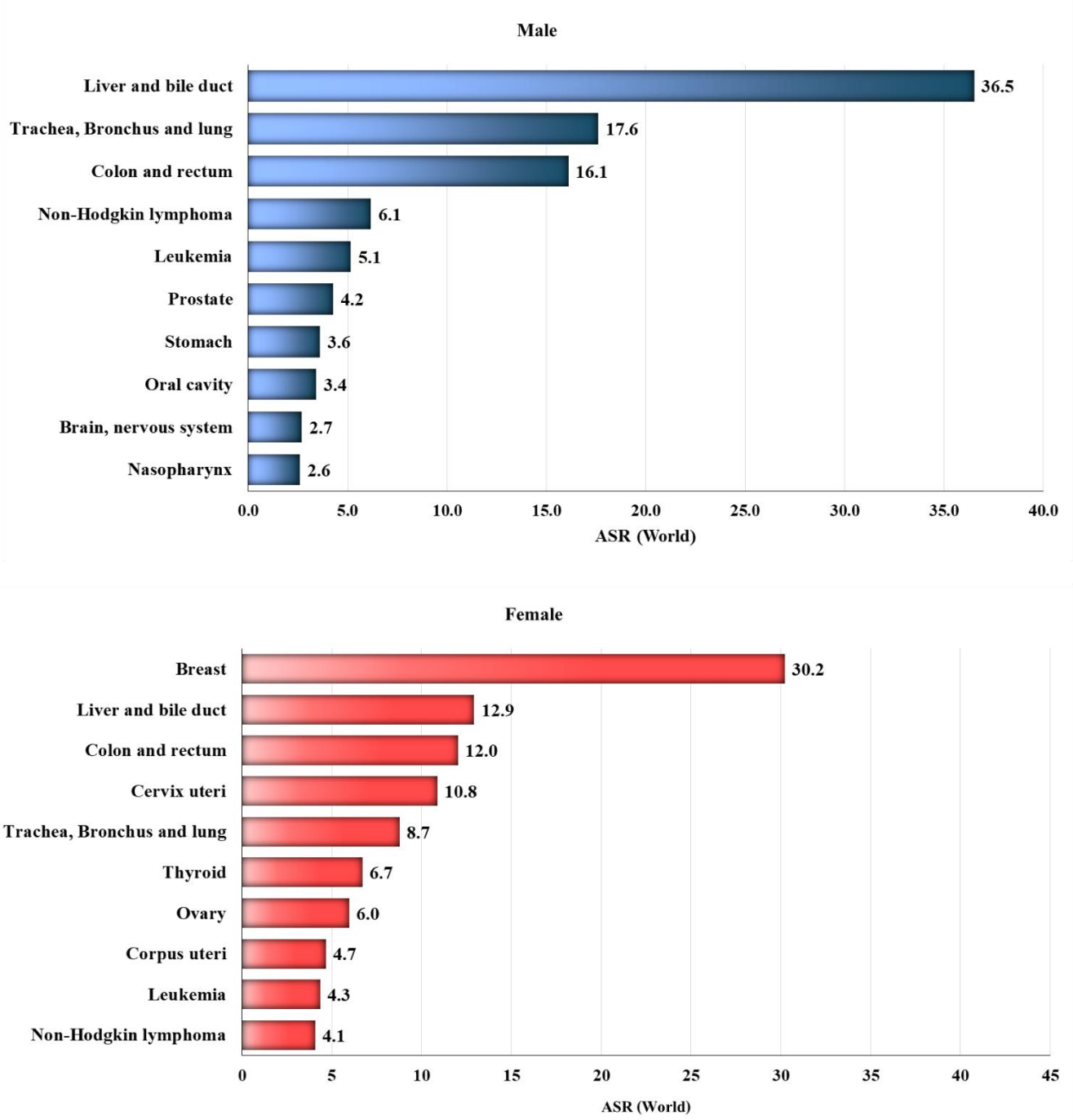


Table 4.10.1 Health Regions 10 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	1.0	0.4	0.1	0.1	C00
Tongue	40	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.9	3.3	3.6	6.4	3.3	3.3	4.6	6.8	3.7	2.2	1.5	C01-02
Mouth	39	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.7	1.8	4.3	2.1	4.9	5.1	3.9	8.3	5.2	2.1	1.4	C03-06
Salivary glands	12	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.4	0.0	1.3	0.5	1.5	0.6	1.8	3.4	1.9	0.6	0.4	C07-08
Tonsil	23	0.0	0.8	0.0	0.0	0.2	0.0	0.0	0.0	2.4	2.0	1.1	2.6	3.6	4.2	4.4	0.7	1.3	0.9	C09
Other oropharynx	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.5	1.8	1.2	0.0	1.0	0.0	0.3	0.2	C10
Nasopharynx	67	0.0	0.0	0.0	0.4	0.5	0.3	1.3	3.8	5.0	6.1	6.4	7.2	9.8	7.4	9.8	4.5	3.6	2.6	C11
Hypopharynx	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	2.5	2.3	2.6	3.0	2.5	3.4	1.1	1.1	0.8	C12-13
Pharynx unspecified	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.3	0.3	0.0	0.5	0.7	0.1	0.1	C14
Oesophagus	60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.6	5.9	6.9	8.7	10.1	7.4	5.9	3.7	3.2	2.1	C15
Stomach	106	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.1	6.5	4.6	6.2	9.0	12.5	20.4	24.4	20.9	5.8	3.6	C16
Small intestine	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	1.6	0.8	3.0	0.7	2.9	2.2	0.7	0.4	C17
Colon	261	0.0	0.0	0.2	0.0	0.2	2.1	4.2	8.0	7.4	10.9	13.3	27.2	36.0	48.5	52.7	54.0	14.2	8.8	C18
Rectum	210	0.0	0.0	0.0	0.0	0.0	0.9	3.8	3.4	4.5	8.9	15.6	24.1	34.2	36.9	39.1	36.5	11.4	7.0	C19-20
Anus	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.9	0.5	1.5	0.7	1.5	1.1	0.4	0.2	C21
Liver and bile duct	1109	0.0	0.6	0.0	0.0	0.2	0.9	6.3	19.5	25.8	55.5	82.7	117.7	178.3	170.1	223.6	219.8	60.3	36.5	C22,C24
Gallbladder	35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	0.9	2.6	2.7	6.0	8.3	16.0	1.9	1.0	C23
Pancreas	48	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	2.4	2.8	4.1	3.6	4.8	9.5	8.3	11.9	2.6	1.6	C25
Nose, sinuses etc.	14	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.8	1.2	0.0	0.5	2.8	2.1	1.1	3.4	1.5	0.8	0.5	C30-31
Larynx	48	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	3.8	3.9	4.9	6.2	3.9	6.3	14.2	2.6	1.6	C32
Trachea, Bronchus and lung	550	0.0	0.0	0.0	0.2	0.0	0.9	5.4	11.1	10.4	18.1	31.0	44.1	75.8	98.1	130.9	145.3	29.9	17.6	C33-34
Other thoracic organs	17	0.3	0.0	0.0	0.9	0.5	0.6	0.8	0.0	1.5	0.3	0.2	1.5	0.9	2.5	3.4	3.7	0.9	0.7	C37-38
Bone	25	0.0	0.6	1.1	0.6	0.5	0.3	0.0	0.8	0.6	1.3	2.1	1.8	3.9	5.3	2.9	1.5	1.4	1.0	C40-C41
Melanoma of skin	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	0.5	1.5	1.1	1.0	4.5	0.5	0.3	C43
Other skin	63	0.0	0.0	0.2	0.2	0.0	0.6	2.9	1.1	2.1	2.0	2.8	5.9	6.2	9.5	11.2	20.1	3.4	2.1	C44
Mesothelioma	2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.2	0.0	0.6	0.0	0.0	0.4	0.1	0.1	C45
Kaposi's sarcoma	1	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	16	0.3	0.6	0.2	0.2	0.2	0.0	0.4	0.0	0.6	0.3	1.6	1.8	0.6	3.2	2.9	2.6	0.9	0.6	C47,C49
Breast	6	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.3	0.8	0.2	0.8	0.6	1.4	0.0	1.5	0.3	0.2	C50
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58
Penis	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.9	0.5	1.1	3.3	3.9	2.5	6.8	3.0	1.2	0.8	C60
Prostate	148	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	2.8	3.8	16.6	35.9	49.3	57.7	8.0	4.2	C61
Testis	12	0.6	0.3	0.5	0.0	1.1	0.6	5.0	1.1	0.3	0.5	0.5	0.8	0.0	0.0	0.5	0.0	0.7	0.8	C62
Other male genital organs	2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	0.1	0.1	C63
Kidney	36	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	2.0	3.2	4.6	7.1	5.3	4.4	3.7	2.0	1.3	C64
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.0	0.4	0.1	0.0	C65
Ureter	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.3	0.6	0.0	0.0	0.4	0.1	0.1	C66
Bladder	86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	3.1	3.4	6.4	11.6	12.3	25.9	27.9	4.7	2.6	C67
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C68
Eye	2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.5	0.0	0.0	0.0	0.4	0.0	0.4	0.1	0.1	C69
Brain, nervous system	64	0.0	1.1	3.0	0.4	0.2	2.1	2.5	3.4	3.0	5.9	3.4	5.6	4.8	10.9	7.3	6.7	3.5	2.7	C70-72
Thyroid	25	0.0	0.0	0.0	0.2	0.2	0.0	0.4	1.1	1.5	2.0	0.9	2.1	4.2	2.1	2.9	6.7	1.4	0.9	C73
Adrenal gland	1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	C74
Other endocrine	3	0.0	0.0	0.7	0.2	0.0	0.3	0.0	0.0	0.6	0.0	0.0	0.0	0.3	0.4	0.0	0.0	0.2	0.2	C75
Hodgkin disease	11	0.3	0.6	0.0	0.6	0.0	1.2	0.8	1.5	0.3	0.5	0.7	1.5	0.3	0.4	0.0	0.7	0.6	0.6	C81
Non-Hodgkin lymphoma	173	0.6	1.1	0.5	0.9	1.4	3.3	4.6	3.4	3.9	10.2	9.6	18.5	17.8	25.7	36.6	35.0	9.4	6.1	C82-85,C96
Multiple myeloma	36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.3	3.0	4.4	5.6	5.3	9.3	4.8	2.0	1.2	C90
Lymphoid leukemia	24	2.0	4.5	1.8	0.4	0.2	0.6	0.4	0.8	0.9	0.5	1.4	1.0	0.9	1.4	2.9	1.9	1.3	1.4	C91
Myeloid leukemia	68	0.9	1.4	0.7	0.6	0.7	1.2	2.9	4.2	5.9	3.6	3.4	4.4	6.8	8.1	8.8	13.0	3.7	2.8	C92-94
Leukemia unspecified	23	0.3	0.6	0.5	0.0	0.2	0.3	1.3	1.1	1.8	1.5	0.5	1.3	0.9	1.8	5.9	6.7	1.3	0.9	C95
Myelodysplastic disease	26	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	1.3	1.6	3.3	1.8	3.5	4.9	8.6	1.4	0.8	D45-D47
Other and unspecified	145	0.3	0.6	0.0	0.0	0.5	1.8	3.3	2.3	3.9	6.4	8.5	14.1	16.3	21.1	32.7	36.5	7.9	4.9	O&U
All sites	**3,723**	**8.1**	**13.3**	**9.4**	**6.3**	**7.1**	**19.1**	**49.7**	**81.9**	**111.3**	**178.4**	**239.6**	**357.8**	**507.6**	**587.3**	**766.1**	**795.5**	**202.3**	**126.5**	**ALL**

Table 4.10.2 Health Regions 10 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	27	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.4	0.0	0.0	0.8	0.7	0.8	3.1	8.9	9.5	1.4	0.6	C00
Tongue	23	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8	2.1	0.8	2.1	3.7	2.8	4.1	2.1	1.2	0.7	C01-02
Mouth	56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.5	2.3	1.7	4.0	8.8	10.1	20.7	2.9	1.3	C03-06
Salivary glands	10	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.8	0.8	0.7	0.4	0.9	1.1	1.6	1.6	0.5	0.5	0.3	C07-08
Tonsil	2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.4	0.0	0.1	0.1	C09
Other oropharynx	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C10
Nasopharynx	26	0.0	0.0	0.0	0.0	0.0	0.3	0.9	0.4	0.6	1.6	2.5	2.8	4.3	2.8	3.6	2.1	1.4	0.8	C11
Hypopharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.5	0.0	0.0	0.0	0.1	0.0	C12-13
Pharynx unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.4	0.3	0.1	0.0	C14
Oesophagus	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.6	0.2	0.3	0.6	2.0	1.1	0.3	0.2	C15
Stomach	74	0.0	0.0	0.0	0.0	0.0	1.5	1.7	4.2	4.2	4.4	5.1	6.6	7.2	11.6	11.7	6.4	3.9	2.5	C16
Small intestine	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.5	1.1	0.9	1.2	0.3	0.3	0.2	C17
Colon	239	0.0	0.0	0.0	0.0	0.5	1.5	5.1	4.6	5.3	12.6	18.2	20.8	25.6	31.3	33.6	42.6	12.4	7.0	C18
Rectum	162	0.0	0.0	0.0	0.0	0.2	0.6	3.0	4.2	4.4	7.5	13.3	13.9	20.6	21.9	27.1	21.2	8.4	4.9	C19-20
Anus	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.4	0.2	0.0	0.6	0.0	0.8	0.2	0.1	C21
Liver and bile duct	491	0.0	0.3	0.0	0.0	0.0	0.0	2.6	3.1	4.7	13.3	20.7	38.9	58.5	80.0	102.1	104.3	25.5	12.9	C22,C24
Gallbladder	33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.4	1.4	2.1	5.9	5.3	11.7	1.7	0.8	C23
Pancreas	35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.9	4.0	2.6	3.7	4.7	5.3	6.1	1.8	1.0	C25
Nose, sinuses etc.	6	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.5	0.0	0.0	0.5	0.9	0.8	2.4	0.3	0.2	C30-31
Larynx	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.3	0.0	1.2	0.0	0.1	0.1	C32
Trachea, Bronchus and lung	304	0.0	0.0	0.0	0.0	0.7	0.0	4.3	3.5	7.2	14.2	22.6	27.8	34.4	43.4	53.1	47.7	15.8	8.7	C33-34
Other thoracic organs	12	0.0	0.0	0.0	0.0	0.5	0.3	0.0	0.4	1.1	0.7	0.6	1.2	1.6	0.3	1.2	1.6	0.6	0.4	C37-38
Bone	23	0.3	0.6	0.9	0.9	0.2	0.0	0.0	0.8	0.6	0.2	1.5	0.9	0.8	1.3	3.6	6.4	1.2	0.8	C40-C41
Melanoma of skin	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.2	1.1	0.9	0.0	1.9	2.4	2.6	0.6	0.3	C43
Other skin	68	0.3	0.0	0.2	0.0	0.7	0.6	0.0	1.5	0.8	2.8	3.2	3.8	3.7	8.4	11.7	20.4	3.5	1.8	C44
Mesothelioma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	17	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.4	1.7	1.9	0.6	2.1	1.3	2.2	0.8	1.9	0.9	0.6	C47,C49
Breast	824	0.0	0.0	0.2	0.0	0.5	4.7	23.5	52.8	74.0	90.4	91.4	95.4	80.4	62.2	59.5	32.8	42.7	30.2	C50
Vulva	11	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.3	0.0	0.0	1.2	0.8	1.6	1.6	3.2	0.6	0.3	C51
Vagina	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	C52
Cervix uteri	273	0.0	0.0	0.0	0.0	1.2	3.8	21.0	26.6	23.6	29.9	25.6	25.7	20.8	20.6	17.0	14.3	14.2	10.8	C53
Corpus uteri	141	0.0	0.0	0.0	0.0	0.2	0.6	2.6	5.4	6.7	9.3	13.5	16.3	22.2	13.8	18.6	7.9	7.3	4.7	C54
Uterus unspecified	21	0.0	0.0	0.0	0.0	0.0	0.3	0.4	2.3	0.8	4.2	1.9	1.9	1.6	1.9	0.4	0.8	1.1	0.8	C55
Ovary	158	0.0	0.0	0.9	2.0	2.9	3.8	3.9	10.0	11.1	12.8	14.4	18.9	14.4	16.3	9.7	7.4	8.2	6.0	C56
Other female genital organs	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.6	0.2	0.0	0.0	0.4	0.0	0.2	0.1	C57
Placenta	4	0.0	0.0	0.0	0.0	0.0	0.3	1.3	0.0	0.3	0.5	0.8	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C58
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63
Kidney	14	0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.4	0.6	0.0	0.8	1.9	2.1	1.6	3.2	0.8	0.7	0.4	C64
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.4	0.0	0.0	0.0	C65
Ureter	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.5	0.1	0.0	C66
Bladder	18	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.8	0.0	0.8	1.2	1.1	3.8	1.2	5.6	0.9	0.5	C67
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	C68
Eye	3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.6	0.0	0.3	0.1	0.2	C69
Brain, nervous system	82	1.5	0.9	0.2	0.9	1.0	1.5	2.1	4.2	5.5	10.3	9.5	6.4	5.3	5.3	4.1	6.6	4.3	3.2	C70-72
Thyroid	154	0.0	0.0	2.1	2.0	4.1	7.0	13.7	14.3	13.3	14.5	12.7	10.6	9.6	9.4	11.3	6.4	8.0	6.7	C73
Adrenal gland	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	C74
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	7	0.0	0.0	0.2	0.0	0.7	0.6	0.0	1.2	1.1	0.0	0.2	0.2	0.8	0.0	0.4	0.3	0.3	0.3	C81
Non-Hodgkin lymphoma	123	1.8	0.6	0.2	0.4	0.7	2.0	3.9	1.9	5.0	6.3	5.1	8.3	12.8	19.1	24.7	15.9	6.4	4.1	C82-85,C96
Multiple myeloma	33	0.0	0.0	0.0	0.2	0.0	0.0	0.4	1.5	0.3	0.9	3.0	3.5	5.6	3.8	5.3	3.7	1.7	1.0	C90
Lymphoid leukemia	19	4.3	2.7	2.4	0.7	0.5	0.3	0.0	0.4	1.1	0.0	0.2	0.5	0.5	0.3	0.8	1.1	1.0	1.3	C91
Myeloid leukemia	52	4.0	0.0	1.4	0.2	0.7	0.6	1.3	3.9	3.0	3.3	2.3	3.1	4.8	3.8	5.3	6.9	2.7	2.2	C92-94
Leukemia unspecified	24	0.3	0.3	0.0	0.2	0.2	0.0	1.7	1.5	0.6	0.9	0.6	1.4	2.9	4.1	2.0	4.0	1.2	0.8	C95
Myelodysplastic disease	26	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.9	1.7	1.7	2.7	3.1	6.1	5.6	1.3	0.7	D45-D47
Other and unspecified	120	0.0	0.0	0.0	0.4	0.2	0.0	0.4	2.7	3.9	6.3	4.2	9.7	11.7	15.3	19.4	28.3	6.2	3.3	O&U
All sites	**3,750**	**14.0**	**5.4**	**9.0**	**8.5**	**16.4**	**30.9**	**95.9**	**155.4**	**186.3**	**258.8**	**291.2**	**339.2**	**377.3**	**421.3**	**484.0**	**465.0**	**194.4**	**124.2**	**ALL**

4.11 Health Regions 11

Health Regions 11 is located in the southern part of Thailand, consists of 7 provinces : Nakhon Si Thammarat, Krabi, Phangnga, Phuket, Surat Thani, Ranong and Chumphon. The estimated population in 2020 was 4,299,733 with 2,100,000 males and 2,199,733 females. The region has a population-based cancer registry in Surat Thani. New cases were registered in 2020 included 3,925 males and 3,793 females, making 7,718 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 131.2 per 100,000, trachea, bronchus and lung ranking first (ASR = 22.6) followed by colon and rectum (ASR = 20.3) and liver and bile duct (ASR = 14.1). The ASR of all cancer in females was 114.9 per 100,000, the three leading cancer sites being breast (ASR = 34.3) followed by colon and rectum (ASR = 12.7) and thyroid (ASR = 9.6).

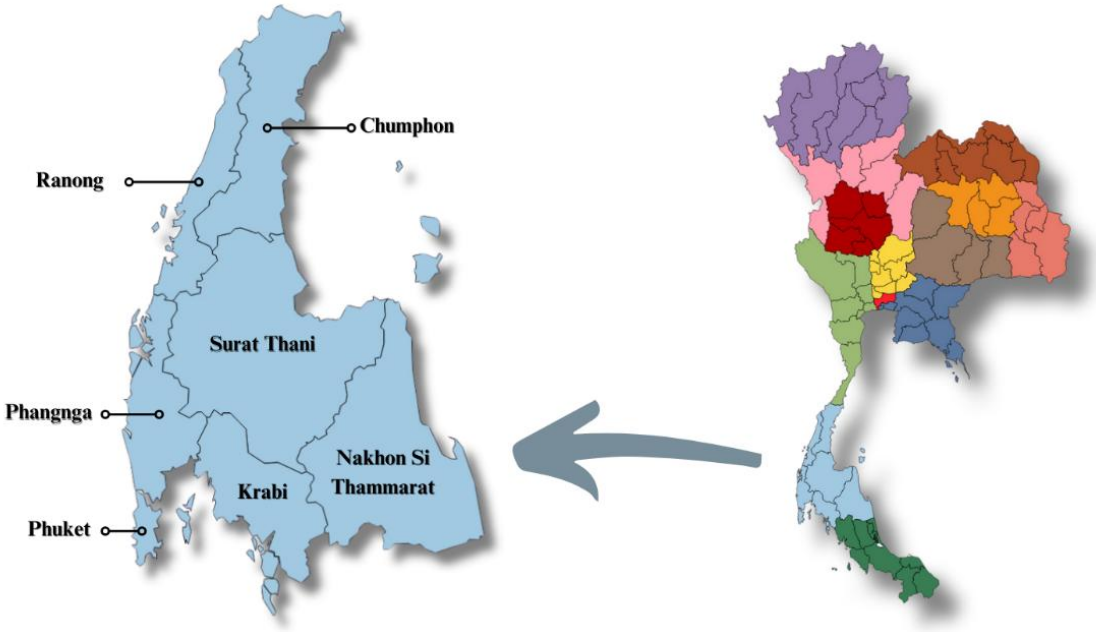


Figure 4.11.1 Leading cancer in Health Regions 11 (mean annual ASR 2019-2021)

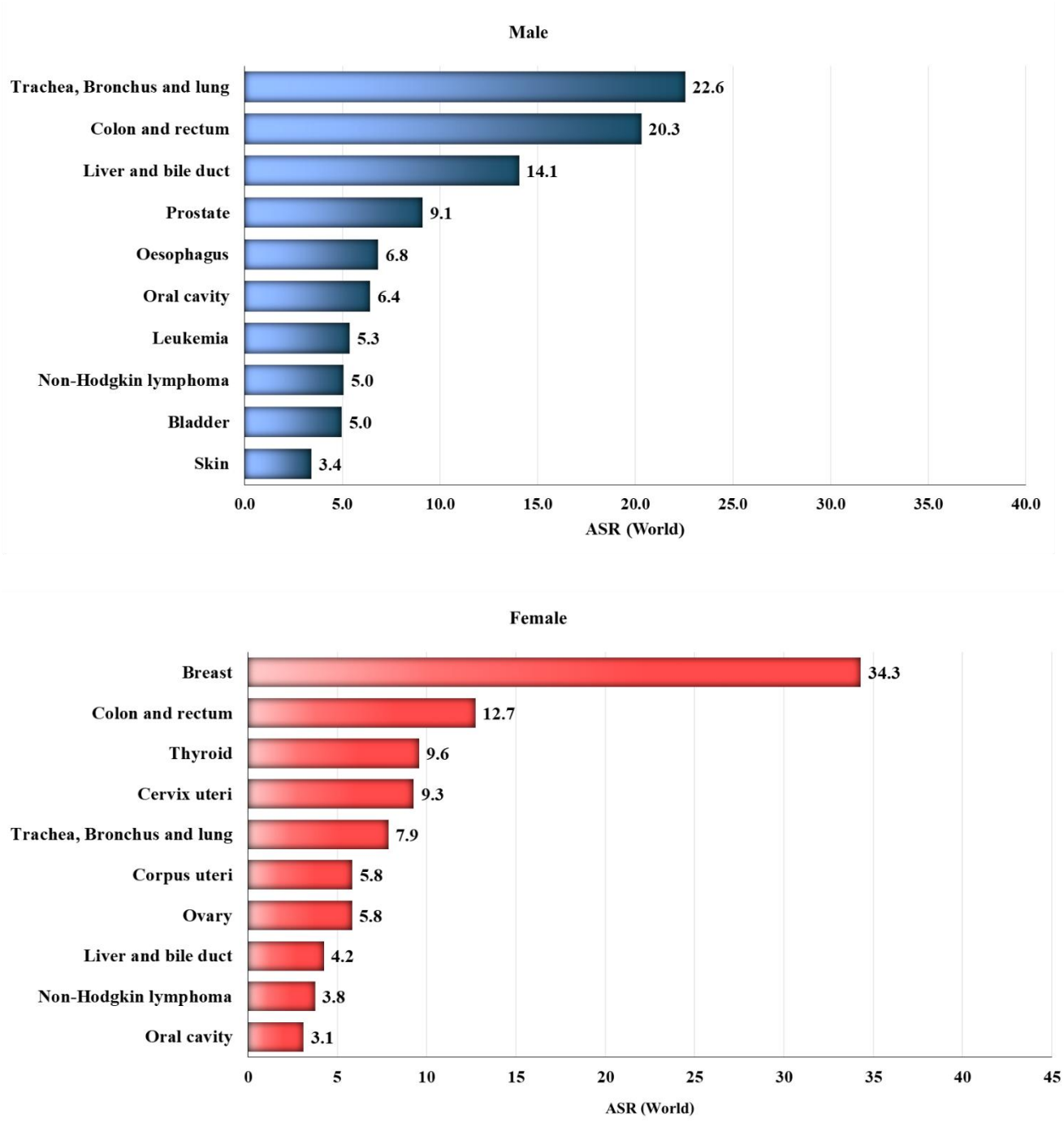


Table 4.11.1 Health Regions 11 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.6	0.8	0.0	1.6	0.2	0.1	C00
Tongue	110	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.9	3.9	4.2	9.5	15.0	18.0	21.0	15.7	18.6	5.2	3.7	C01-02
Mouth	74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.5	5.7	10.7	7.9	11.3	18.1	20.3	3.5	2.4	C03-06
Salivary glands	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.2	2.2	0.0	0.0	0.0	6.1	0.4	0.3	C07-08
Tonsil	48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.6	1.3	6.1	7.5	9.5	4.4	4.8	8.5	2.3	1.6	C09
Other oropharynx	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	2.7	2.0	6.3	1.2	3.6	5.3	1.0	0.7	C10
Nasopharynx	70	0.0	0.0	0.0	1.8	0.5	0.2	3.1	0.9	5.3	7.7	6.9	5.7	8.2	7.3	1.2	6.1	3.3	2.5	C11
Hypopharynx	63	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.9	1.6	2.9	3.2	8.2	10.8	13.3	9.1	13.0	3.0	2.1	C12-13
Pharynx unspecified	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.4	1.2	1.2	0.1	0.1	C14
Oesophagus	206	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.3	8.6	16.4	24.0	34.8	33.9	52.5	42.2	9.8	6.8	C15
Stomach	68	0.0	0.0	0.0	0.0	0.2	0.0	0.4	1.5	1.2	4.2	5.9	6.5	7.6	9.7	13.3	17.4	3.2	2.2	C16
Small intestine	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.2	0.0	0.5	2.5	4.8	0.6	4.5	0.6	0.4	C17
Colon	342	0.0	0.0	0.0	0.0	0.2	1.6	3.8	2.4	8.8	10.2	16.2	27.2	43.1	69.9	99.0	97.3	16.3	11.3	C18
Rectum	264	0.0	0.0	0.0	0.2	0.0	0.9	1.8	1.7	4.9	9.6	13.9	24.2	41.5	50.5	68.8	68.5	12.6	8.8	C19-20
Anus	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.2	0.2	0.0	1.6	0.8	1.2	1.2	0.3	0.2	C21
Liver and bile duct	419	0.0	0.0	0.0	0.0	0.0	0.9	2.9	3.0	10.2	19.8	27.4	52.4	70.3	81.6	80.9	74.2	20.0	14.1	C22,C24
Gallbladder	9	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.2	1.3	0.8	1.2	5.7	0.4	0.3	C23
Pancreas	49	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.4	1.8	2.5	2.1	5.2	4.7	11.3	9.7	13.8	2.3	1.6	C25
Nose, sinuses etc.	15	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.4	1.0	2.1	1.2	0.3	2.8	0.0	4.1	0.7	0.5	C30-31
Larynx	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.2	2.1	6.1	9.0	8.9	18.2	33.8	37.3	4.8	3.2	C32
Trachea, Bronchus and lung	688	0.0	0.0	0.0	0.0	0.0	1.3	1.8	5.0	12.5	23.2	27.6	67.1	109.6	141.4	161.7	199.0	32.8	22.6	C33-34
Other thoracic organs	19	0.0	0.0	0.0	3.2	0.9	0.2	0.4	0.2	0.2	0.4	2.9	0.2	1.6	0.4	0.6	3.6	0.9	0.8	C37-38
Bone	17	0.0	0.5	1.4	3.7	0.7	0.7	0.2	0.0	0.0	1.7	0.6	0.0	0.9	0.0	0.6	1.6	0.8	0.8	C40-C41
Melanoma of skin	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.4	0.2	0.5	2.2	1.6	4.8	5.7	0.7	0.5	C43
Other skin	94	0.0	0.0	0.5	0.0	0.0	0.0	1.6	0.6	2.0	1.7	3.4	8.2	12.3	12.1	12.1	46.6	4.5	2.9	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	34	0.2	0.2	0.0	0.0	0.0	0.4	0.7	0.6	0.4	2.5	1.7	2.2	4.7	7.3	3.0	9.7	1.6	1.2	C47,C49
Breast	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	1.5	2.8	0.4	1.8	3.2	0.5	0.3	C50
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58
Penis	36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	1.3	2.9	1.7	6.6	6.5	4.8	11.8	1.7	1.2	C60
Prostate	289	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.5	7.5	34.5	68.3	118.3	141.1	13.8	9.1	C61
Testis	13	0.0	0.0	0.0	0.5	0.2	0.0	2.0	1.7	0.0	1.5	0.6	0.5	0.0	0.8	0.0	1.6	0.6	0.5	C62
Other male genital organs	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.3	0.0	0.0	0.8	0.1	0.1	C63
Kidney	57	0.0	0.2	0.0	0.0	0.0	0.0	0.7	0.2	2.9	2.5	2.5	4.0	11.4	15.8	10.3	7.7	2.7	2.0	C64
Renal pelvis	6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.0	1.2	0.0	0.4	3.0	1.2	0.3	0.2	C65
Ureter	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.4	0.6	0.8	0.1	0.1	C66
Bladder	159	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.8	4.8	12.5	15.2	27.5	50.7	73.4	7.6	5.0	C67
Other urinary organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	C68
Eye	7	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.2	0.0	0.0	3.6	2.0	0.3	0.3	C69
Brain, nervous system	38	0.2	0.7	0.5	0.2	0.7	0.0	0.7	1.1	3.1	4.2	2.3	1.7	5.7	6.5	3.0	1.2	1.8	1.5	C70-72
Thyroid	60	0.0	0.0	0.0	0.5	2.3	2.0	2.2	2.6	4.5	4.4	4.0	2.5	4.1	5.7	7.8	10.5	2.9	2.2	C73
Adrenal gland	3	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.5	0.0	0.8	0.0	0.0	0.1	0.1	C74
Other endocrine	1	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	10	0.0	0.5	0.5	0.7	0.0	1.6	0.4	0.2	0.2	1.0	0.2	0.2	0.6	0.0	1.2	0.0	0.5	0.5	C81
Non-Hodgkin lymphoma	145	0.0	1.7	0.7	0.5	0.7	1.8	2.0	2.6	4.7	6.7	7.2	10.7	15.2	33.5	27.8	32.8	6.9	5.0	C82-85,C96
Multiple myeloma	47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.6	2.5	5.5	8.5	6.1	12.7	16.2	2.3	1.5	C90
Lymphoid leukemia	35	1.0	4.3	2.2	2.7	0.5	0.0	0.0	0.4	1.2	0.4	2.1	2.0	3.2	4.8	0.6	3.6	1.7	1.7	C91
Myeloid leukemia	70	0.2	2.4	1.0	0.5	0.7	0.7	2.7	2.2	0.8	2.7	2.1	7.2	7.6	14.5	10.9	12.6	3.3	2.6	C92-94
Leukemia unspecified	30	0.7	0.0	0.0	0.5	0.0	0.2	0.7	1.7	1.4	1.9	1.1	0.5	0.3	4.0	6.0	11.8	1.4	1.1	C95
Myelodysplastic disease	15	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.2	0.2	0.0	0.2	3.8	3.6	2.4	5.7	0.7	0.5	D45-D47
Other and unspecified	127	0.0	0.0	0.5	0.2	1.6	0.4	2.2	1.1	3.5	7.3	9.5	11.0	11.7	21.8	29.0	30.4	6.1	4.3	O&U
All sites	**3,925**	**3.2**	**11.6**	**7.7**	**15.1**	**9.2**	**13.9**	**31.9**	**35.8**	**88.7**	**148.9**	**206.8**	**352.6**	**541.2**	**728.2**	**893.2**	**1,081.5**	**186.9**	**131.2**	**ALL**

Table 4.11.2 Health Regions 11 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.6	2.1	3.4	6.3	0.6	0.3	C00
Tongue	49	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	2.9	2.1	2.5	7.0	4.2	4.5	5.4	8.2	2.2	1.4	C01-02
Mouth	42	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.4	1.2	1.2	4.3	5.3	3.1	16.6	7.4	1.9	1.1	C03-06
Salivary glands	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0	2.0	0.0	1.7	1.0	2.9	0.5	0.2	C07-08
Tonsil	11	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.4	0.0	0.0	2.0	2.1	2.9	2.6	0.5	0.3	C09
Other oropharynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.0	0.0	0.5	0.1	0.1	C10
Nasopharynx	16	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.6	1.9	2.3	0.4	0.7	0.3	2.4	2.4	0.5	0.7	0.5	C11
Hypopharynx	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3	1.4	0.0	0.5	0.1	0.1	C12-13
Pharynx unspecified	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.1	0.0	C14
Oesophagus	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.4	1.2	1.8	1.7	2.1	2.0	5.0	0.9	0.5	C15
Stomach	46	0.0	0.0	0.0	0.0	0.0	0.5	0.2	0.4	1.0	1.2	3.3	3.6	5.6	7.6	5.4	9.8	2.1	1.3	C16
Small intestine	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.6	1.1	0.6	0.7	0.0	2.9	0.4	0.2	C17
Colon	283	0.0	0.0	0.0	1.2	0.2	1.4	3.1	4.3	5.6	11.1	12.5	22.9	39.7	43.0	37.7	55.1	12.9	8.0	C18
Rectum	161	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.5	5.5	10.9	15.6	25.5	19.3	30.8	23.5	7.3	4.5	C19-20
Anus	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.2	0.2	0.6	3.1	0.5	1.1	0.3	0.2	C21
Liver and bile duct	165	0.0	0.0	0.0	0.5	0.0	0.0	0.2	1.7	1.9	2.3	7.6	7.7	21.8	19.6	34.3	48.5	7.5	4.2	C22,C24
Gallbladder	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.9	0.3	1.0	2.9	0.8	0.3	0.2	C23
Pancreas	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.8	2.7	5.0	9.3	8.3	9.8	1.8	1.1	C25
Nose, sinuses etc.	9	0.0	0.0	0.5	0.2	0.0	0.0	0.0	0.0	0.4	1.0	1.4	0.0	0.6	1.0	0.0	1.6	0.4	0.3	C30-31
Larynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.0	0.5	0.0	0.1	0.1	C32
Trachea, Bronchus and lung	284	0.0	0.0	0.0	0.0	0.0	0.7	3.1	3.7	4.5	9.0	13.8	22.0	37.5	42.0	58.2	54.3	12.9	7.9	C33-34
Other thoracic organs	9	0.0	0.0	0.0	0.0	0.0	0.2	0.9	0.0	0.0	1.2	0.4	0.5	1.1	1.4	0.5	1.1	0.4	0.3	C37-38
Bone	11	0.0	0.0	0.7	0.2	0.5	0.5	0.0	0.6	0.2	0.2	0.0	0.2	1.7	1.4	0.5	1.8	0.5	0.4	C40-C41
Melanoma of skin	13	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	1.0	0.7	0.8	2.4	6.9	1.6	0.6	0.4	C43
Other skin	96	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.2	1.4	1.4	2.9	6.8	5.0	6.5	23.0	36.1	4.3	2.3	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	1	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	29	0.0	0.0	0.2	0.5	0.5	0.9	1.3	1.7	1.6	1.6	0.4	1.8	2.8	1.4	2.9	5.0	1.3	1.0	C47,C49
Breast	1092	0.0	0.0	0.0	0.2	0.0	4.5	23.1	35.2	73.0	96.0	110.1	109.9	118.3	87.5	100.8	49.6	49.6	34.3	C50
Vulva	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.5	0.6	0.7	1.0	3.7	0.4	0.2	C51
Vagina	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.3	0.0	0.3	0.1	0.0	C52
Cervix uteri	288	0.0	0.0	0.0	0.0	0.7	3.2	13.5	13.4	19.7	21.3	21.6	27.4	36.6	21.7	12.7	16.6	13.1	9.3	C53
Corpus uteri	189	0.0	0.0	0.0	0.0	0.2	1.4	4.7	4.8	3.7	9.0	13.6	19.5	33.3	31.0	21.5	11.3	8.6	5.8	C54
Uterus unspecified	12	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	1.2	0.4	1.9	0.9	0.8	1.0	1.5	0.5	0.5	0.4	C55
Ovary	175	0.0	0.0	2.2	3.1	0.5	3.2	5.1	5.0	9.3	12.1	11.7	17.9	16.2	18.9	23.0	8.7	8.0	5.8	C56
Other female genital organs	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.3	0.3	0.0	0.0	0.1	0.1	C57
Placenta	2	0.0	0.0	0.2	0.5	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C58
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63
Kidney	25	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.1	0.2	0.2	0.2	2.5	5.3	0.3	1.0	8.7	1.2	0.7	C64
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.0	0.3	0.1	0.0	C65
Ureter	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.5	0.3	0.1	0.0	C66
Bladder	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.7	2.5	5.5	5.4	10.0	1.2	0.6	C67
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C68
Eye	3	0.3	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.5	0.0	0.0	0.5	0.5	0.1	0.1	C69
Brain, nervous system	25	0.8	0.2	0.0	0.2	0.5	0.5	0.7	0.0	1.6	0.4	3.3	2.0	4.5	0.7	2.4	0.8	1.1	0.9	C70-72
Thyroid	267	0.0	0.0	1.2	3.6	6.5	13.5	18.9	14.3	15.6	20.5	17.3	19.7	20.4	16.9	8.8	11.1	12.1	9.6	C73
Adrenal gland	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5	0.0	0.0	0.0	0.0	0.1	0.0	C74
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	10	0.0	0.0	0.0	1.9	0.7	0.7	0.0	0.4	0.4	0.0	0.4	0.2	0.0	0.0	2.0	1.1	0.4	0.4	C81
Non-Hodgkin lymphoma	131	0.0	0.0	0.5	0.0	1.4	1.8	0.7	3.0	3.3	3.3	6.6	10.4	12.3	22.0	22.5	24.3	6.0	3.8	C82-85,C96
Multiple myeloma	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.6	2.3	8.1	4.8	4.4	4.7	1.3	0.8	C90
Lymphoid leukemia	17	3.6	1.2	1.0	0.2	0.0	0.5	0.0	0.4	0.0	1.2	0.2	0.5	1.7	0.7	1.5	1.1	0.8	1.0	C91
Myeloid leukemia	41	0.0	0.0	0.2	1.7	0.0	1.4	0.0	0.4	0.2	1.4	2.9	2.7	7.0	2.1	9.8	5.8	1.9	1.3	C92-94
Leukemia unspecified	13	0.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.2	0.7	2.0	1.7	1.0	2.9	0.6	0.4	C95
Myelodysplastic disease	13	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.0	0.2	0.8	0.2	0.2	0.0	1.0	1.5	5.8	0.6	0.3	D45-D47
Other and unspecified	76	0.0	0.0	0.5	0.2	0.0	1.4	1.8	1.5	2.3	1.6	3.3	4.8	6.7	11.0	15.7	15.0	3.4	2.2	O&U
All sites	**3,793**	**4.9**	**1.7**	**8.0**	**14.9**	**12.0**	**38.9**	**80.2**	**96.3**	**158.5**	**213.5**	**259.3**	**327.2**	**442.2**	**409.1**	**483.6**	**471.5**	**172.4**	**114.9**	**ALL**

4.12 Health Regions 12

Health Regions 12 is located in the southern part of Thailand, consists of 7 provinces : Songkhla, Satun, Trang, Phatthalung, Pattani, Yala and Narathiwat. The estimated population in 2020 was 4,763,267 with 2,319,767 males and 2,443,500 females. The health region has a population-based cancer registry in Songkhla. New cases were registered in 2020 included 3,977 males and 3,812 females, making 7,789 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 130.3 per 100,000, trachea, bronchus and lung ranking first (ASR = 22.7) followed by colon and rectum (ASR = 20.5) and liver and bile duct (ASR = 14.1). The ASR of all cancer in females was 111.9 per 100,000, the three leading cancer sites being breast (ASR = 33.0) followed by colon and rectum (ASR = 12.2) and cervix uteri (ASR = 8.9).

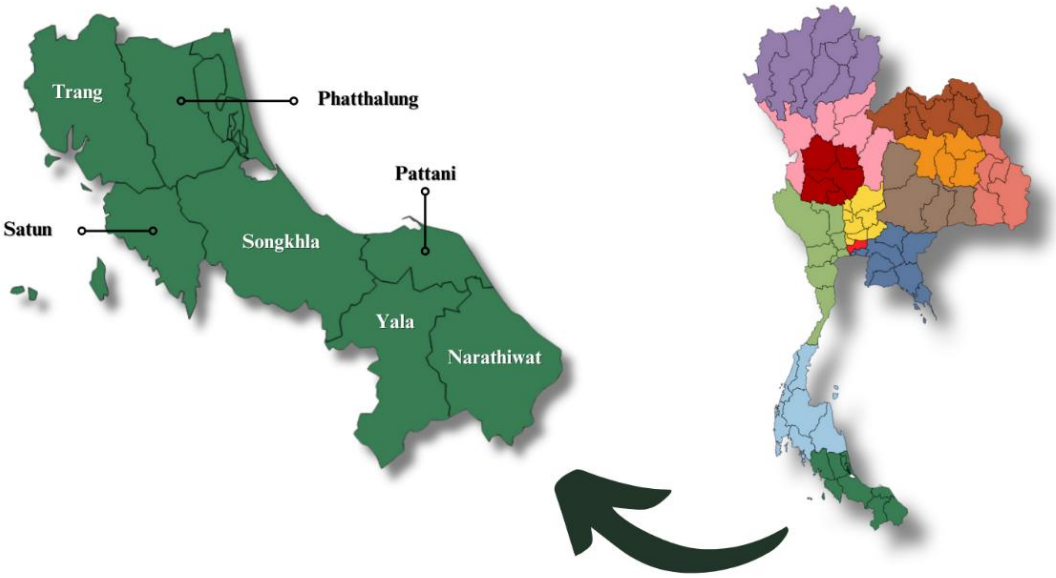


Figure 4.12.1 Leading cancer in Health Regions 12 (mean annual ASR 2019-2021)

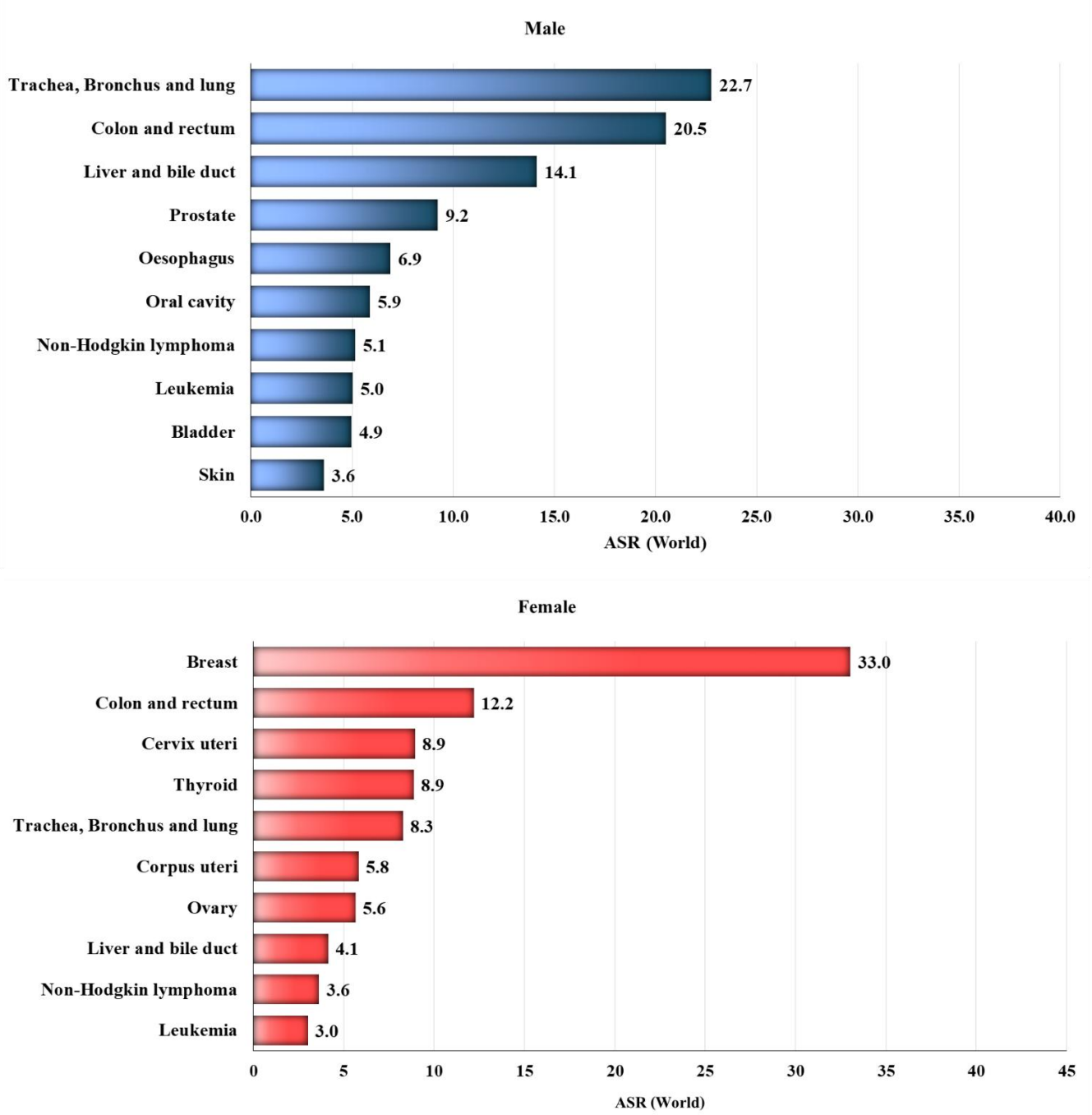


Table 4.12.1 Health Regions 12 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Male

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.8	0.0	0.0	C00
Tongue	102	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.1	4.0	5.4	11.5	12.1	12.4	18.6	10.5	17.1	4.4	3.4	C01-02
Mouth	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.3	3.6	11.2	8.8	10.3	17.6	18.8	3.1	2.3	C03-06
Salivary glands	8	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.2	1.4	0.0	0.0	0.0	5.8	0.3	0.2	C07-08
Tonsil	44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	1.3	4.1	6.3	10.0	5.6	3.5	6.7	1.9	1.4	C09
Other oropharynx	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	2.4	1.6	4.6	1.6	4.7	4.2	0.8	0.6	C10
Nasopharynx	77	0.0	0.0	0.0	0.9	0.5	0.6	2.8	1.1	6.6	8.6	7.3	5.8	8.5	9.1	2.9	5.8	3.3	2.7	C11
Hypopharynx	59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.5	3.8	3.0	7.2	8.8	11.1	8.2	12.9	2.5	1.9	C12-13
Pharynx unspecified	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.4	0.0	1.3	0.1	0.1	C14
Oesophagus	212	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	3.8	8.8	17.5	25.1	34.6	31.3	50.9	42.9	9.1	6.9	C15
Stomach	64	0.0	0.0	0.0	0.0	0.0	0.2	0.2	2.4	1.3	3.6	4.9	4.4	6.7	9.9	14.1	18.3	2.8	2.1	C16
Small intestine	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.9	2.1	5.2	0.6	3.3	0.5	0.4	C17
Colon	352	0.0	0.0	0.0	0.0	0.0	1.4	2.2	1.5	8.5	11.9	16.2	27.7	45.2	74.1	96.6	100.0	15.2	11.4	C18
Rectum	269	0.0	0.0	0.0	0.2	0.2	1.0	1.7	1.8	4.9	9.8	13.9	24.9	37.6	52.3	65.6	72.9	11.6	8.7	C19-20
Anus	9	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	1.7	0.2	0.2	0.0	2.1	0.0	2.9	1.3	0.4	0.3	C21
Liver and bile duct	431	0.2	0.0	0.0	0.0	0.0	1.0	2.2	3.3	10.8	16.5	28.8	56.5	74.3	76.9	74.9	78.3	18.6	14.1	C22,C24
Gallbladder	12	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	1.2	2.4	2.0	0.0	6.3	0.5	0.4	C23
Pancreas	53	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	1.3	2.3	1.7	4.9	4.2	11.9	14.1	17.9	2.3	1.7	C25
Nose, sinuses etc.	17	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.2	0.6	1.5	2.6	1.6	0.3	2.0	0.0	3.8	0.7	0.6	C30-31
Larynx	97	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.2	2.7	4.7	9.3	7.9	16.7	31.0	36.3	4.2	3.0	C32
Trachea, Bronchus and lung	704	0.0	0.0	0.0	0.0	0.0	1.6	1.7	5.0	13.1	23.4	24.4	59.8	103.8	146.3	182.1	211.3	30.4	22.7	C33-34
Other thoracic organs	16	0.0	0.0	0.0	2.0	0.9	0.0	0.2	0.2	0.2	0.0	1.7	1.2	2.1	0.4	0.6	2.5	0.7	0.6	C37-38
Bone	17	0.0	0.0	1.5	3.2	1.1	0.2	0.0	0.0	0.0	2.1	0.2	0.0	1.2	0.0	0.6	0.8	0.7	0.7	C40-C41
Melanoma of skin	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.4	0.2	0.0	2.4	1.2	6.4	6.3	0.7	0.5	C43
Other skin	102	0.0	0.0	0.0	0.0	0.0	0.2	2.0	0.0	1.7	1.3	3.2	7.2	12.1	14.3	15.2	55.8	4.4	3.1	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	31	0.2	0.2	0.0	0.0	0.2	0.4	0.0	0.0	0.6	2.5	1.5	1.4	4.2	7.1	4.1	8.3	1.3	1.0	C47,C49
Breast	10	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.4	1.4	1.8	0.4	2.3	2.9	0.4	0.3	C50
Vulva	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C51
Vagina	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C52
Cervix uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C53
Corpus uteri	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C54
Uterus unspecified	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C55
Ovary	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C56
Other female genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C57
Placenta	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C58
Penis	37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	1.3	3.6	1.9	5.5	6.3	3.5	14.2	1.6	1.2	C60
Prostate	295	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.7	2.1	7.2	34.0	63.0	125.3	145.8	12.7	9.2	C61
Testis	11	0.2	0.0	0.0	0.9	0.7	0.2	1.5	1.3	0.0	1.0	0.2	0.0	0.0	0.0	0.0	0.8	0.5	0.4	C62
Other male genital organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	C63
Kidney	58	0.2	0.2	0.0	0.0	0.0	0.2	1.1	0.2	1.9	2.5	2.6	3.3	13.0	14.7	11.1	7.5	2.5	2.0	C64
Renal pelvis	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.4	4.1	1.3	0.3	0.2	C65
Ureter	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.6	1.7	0.1	0.1	C66
Bladder	163	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.3	2.9	4.5	16.1	11.5	25.0	52.7	77.5	7.0	4.9	C67
Other urinary organs	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.1	0.1	C68
Eye	7	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.0	0.0	3.5	2.5	0.3	0.3	C69
Brain, nervous system	41	0.2	0.7	0.6	0.2	1.1	0.2	0.0	0.9	3.2	4.0	2.8	1.9	6.4	6.3	5.3	1.3	1.8	1.5	C70-72
Thyroid	54	0.0	0.0	0.0	0.0	1.3	1.6	2.0	3.7	6.4	3.3	2.6	3.0	3.6	2.8	7.0	7.9	2.3	1.9	C73
Adrenal gland	2	0.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C74
Other endocrine	4	0.0	1.1	0.8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C75
Hodgkin disease	11	0.0	0.0	0.0	0.7	0.2	1.4	0.2	0.2	0.2	1.5	0.2	0.2	1.5	0.0	2.9	0.0	0.5	0.5	C81
Non-Hodgkin lymphoma	151	0.0	1.3	1.5	0.9	1.1	1.2	1.5	2.9	4.7	5.9	8.1	11.2	15.2	33.7	28.7	33.8	6.5	5.1	C82-85,C96
Multiple myeloma	44	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.2	2.1	3.7	8.2	8.3	11.1	15.4	1.9	1.4	C90
Lymphoid leukemia	37	1.1	4.5	2.3	2.3	0.5	0.0	0.2	0.0	1.3	0.0	1.7	1.6	2.7	3.6	0.6	4.2	1.6	1.6	C91
Myeloid leukemia	76	0.0	2.9	1.3	0.0	1.1	1.2	2.4	1.3	1.7	2.3	2.6	6.5	7.9	15.9	7.6	15.8	3.3	2.7	C92-94
Leukemia unspecified	22	0.2	0.0	0.0	0.0	0.2	0.0	0.0	1.3	1.1	1.0	1.1	0.9	0.3	2.8	5.3	9.6	1.0	0.7	C95
Myelodysplastic disease	21	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.2	0.2	0.2	0.0	0.2	5.2	4.8	4.7	7.1	0.9	0.7	D45-D47
Other and unspecified	125	0.2	0.0	0.6	0.2	1.3	0.4	2.0	0.9	2.8	6.9	7.3	11.6	12.7	20.6	27.5	32.5	5.4	4.1	O&U
All sites	**3,977**	**3.8**	**11.7**	**8.7**	**11.5**	**11.0**	**14.3**	**28.0**	**33.4**	**92.6**	**144.3**	**195.9**	**345.3**	**526.4**	**717.3**	**913.9**	**1,121.3**	**171.4**	**130.3**	**ALL**

Table 4.12.2 Health Regions 12 (2020), Mean annual ASR per 100,000 (2019-2021) by Age Group - Female

Site	No.Cases Year	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Crude Rate	ASR World	ICD-10
Lip	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.8	4.2	0.3	0.2	C00
Tongue	43	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.1	1.9	2.2	2.1	5.9	2.9	4.4	6.0	5.9	1.8	1.2	C01-02
Mouth	28	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.9	1.0	2.3	2.7	1.7	12.6	5.3	1.1	0.7	C03-06
Salivary glands	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.3	0.0	1.7	0.0	3.1	0.3	0.2	C07-08
Tonsil	7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	1.6	1.3	1.9	1.7	0.3	0.2	C09
Other oropharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	C10
Nasopharynx	17	0.0	0.0	0.0	0.0	0.2	0.6	0.0	1.3	1.7	2.1	0.4	1.5	0.3	2.3	2.3	0.0	0.7	0.6	C11
Hypopharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	C12-13
Pharynx unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.1	0.0	C14
Oesophagus	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	1.0	1.5	1.9	1.3	2.8	5.3	0.7	0.4	C15
Stomach	42	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.2	1.2	0.9	3.3	3.0	5.6	7.0	6.0	7.3	1.7	1.2	C16
Small intestine	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.2	1.1	1.3	0.0	0.0	1.4	0.3	0.2	C17
Colon	284	0.0	0.0	0.0	1.1	0.0	1.6	2.4	3.0	4.8	10.9	14.2	22.6	33.7	42.6	35.4	62.1	11.6	7.7	C18
Rectum	159	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.7	5.0	5.4	10.1	14.3	21.4	17.1	28.9	28.3	6.5	4.3	C19-20
Anus	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.2	0.0	2.7	0.5	1.7	0.3	0.2	C21
Liver and bile duct	162	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.7	3.0	8.2	7.2	20.6	17.8	36.3	47.3	6.6	4.1	C22,C24
Gallbladder	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.0	1.3	0.3	0.7	3.3	2.0	0.4	0.2	C23
Pancreas	52	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.6	2.3	3.2	5.1	11.4	11.2	13.1	2.1	1.3	C25
Nose, sinuses etc.	7	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	1.1	0.8	0.0	1.3	0.7	0.0	1.1	0.3	0.2	C30-31
Larynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	0.0	0.5	0.0	0.1	0.0	C32
Trachea, Bronchus and lung	307	0.0	0.0	0.0	0.0	0.2	0.4	2.8	3.6	4.3	10.9	14.0	22.8	36.6	42.6	65.1	62.9	12.6	8.3	C33-34
Other thoracic organs	6	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.9	0.4	0.4	0.8	0.3	0.5	0.6	0.2	0.2	C37-38
Bone	13	0.0	0.0	1.6	0.9	0.4	0.0	0.2	1.3	0.2	0.2	0.0	0.2	1.9	0.3	0.5	1.4	0.5	0.5	C40-C41
Melanoma of skin	12	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	1.2	0.2	1.1	2.3	4.7	1.7	0.5	0.4	C43
Other skin	106	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.0	1.7	1.7	2.5	8.0	6.4	7.0	19.5	43.9	4.4	2.5	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi's sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	28	0.2	0.0	0.2	0.7	1.3	0.2	0.9	1.5	1.2	1.5	0.0	2.7	2.7	2.0	1.9	3.6	1.2	0.9	C47,C49
Breast	1086	0.0	0.0	0.0	0.2	0.0	4.5	20.7	34.5	70.0	89.0	104.1	104.1	119.3	86.6	98.2	54.5	44.4	33.0	C50
Vulva	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	3.1	0.2	0.1	C51
Vagina	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.3	0.0	0.3	0.1	0.0	C52
Cervix uteri	289	0.0	0.0	0.0	0.0	0.2	2.4	13.6	12.8	21.3	18.7	22.1	24.5	32.1	21.8	16.3	20.1	11.8	8.9	C53
Corpus uteri	195	0.0	0.0	0.0	0.0	0.0	1.6	3.9	4.3	3.5	7.9	14.8	19.2	34.0	34.2	20.9	10.6	8.0	5.8	C54
Uterus unspecified	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	2.7	1.3	1.1	2.3	0.5	0.0	0.5	0.4	C55
Ovary	179	0.0	0.0	2.0	2.6	1.3	2.7	3.4	5.7	9.7	10.5	11.7	16.9	16.3	18.5	23.7	10.6	7.3	5.6	C56
Other female genital organs	1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.3	0.0	0.0	0.1	0.1	C57
Placenta	3	0.0	0.0	0.2	0.7	0.2	0.4	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.2	C58
Penis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C60
Prostate	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C61
Testis	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C63
Kidney	25	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.2	0.2	0.2	1.5	2.7	0.3	0.9	12.0	1.0	0.6	C64
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	C65
Ureter	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.5	0.3	0.1	0.0	C66
Bladder	30	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.6	0.6	1.5	2.9	6.4	2.8	10.6	1.2	0.7	C67
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C68
Eye	2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.5	1.1	0.1	0.1	C69
Brain, nervous system	25	0.4	1.3	0.0	0.2	0.4	0.0	0.4	0.2	1.2	0.0	2.9	1.9	4.0	1.0	2.3	2.0	1.0	0.8	C70-72
Thyroid	258	0.0	0.0	1.2	3.5	5.5	13.9	16.6	14.5	14.5	18.0	15.9	13.7	20.3	14.4	10.7	12.9	10.6	8.9	C73
Adrenal gland	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C74
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	14	0.0	0.0	0.0	2.8	1.1	0.4	0.2	1.5	0.2	0.0	0.0	0.2	0.0	0.0	2.8	0.6	0.6	0.6	C81
Non-Hodgkin lymphoma	130	0.0	0.0	0.0	0.0	1.7	2.0	1.5	2.6	2.9	3.4	6.2	9.5	12.8	18.1	22.3	25.7	5.3	3.6	C82-85,C96
Multiple myeloma	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.6	2.3	5.9	4.7	3.7	5.6	1.1	0.7	C90
Lymphoid leukemia	25	4.2	2.1	1.4	0.9	0.2	0.0	0.0	0.2	0.0	1.5	0.2	0.0	1.9	0.0	3.3	1.7	1.0	1.2	C91
Myeloid leukemia	45	0.2	0.0	0.8	1.5	0.0	2.4	0.2	0.2	0.2	1.3	1.7	3.2	7.0	2.7	9.8	5.9	1.8	1.4	C92-94
Leukemia unspecified	12	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.0	0.2	1.6	1.7	0.9	3.1	0.5	0.4	C95
Myelodysplastic disease	23	0.0	0.0	0.0	0.0	0.0	0.2	1.5	0.0	0.2	1.3	0.2	0.6	0.0	2.3	3.3	9.5	0.9	0.6	D45-D47
Other and unspecified	83	0.0	0.0	0.0	0.2	0.2	1.2	1.3	2.3	2.5	1.5	3.3	5.3	6.4	12.1	18.6	17.1	3.4	2.3	O&U
All sites	**3,812**	**6.6**	**3.6**	**7.3**	**15.5**	**13.1**	**35.9**	**73.1**	**96.9**	**152.2**	**199.2**	**251.9**	**306.1**	**418.3**	**398.5**	**484.4**	**512.4**	**156.0**	**111.9**	**ALL**

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