Cancer in Thailand

Volume VII, 2007-2009

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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

Maha Vajiralongkorn Cancer Center

MINISTRY OF EDUCATION

Chiang Mai University

Khon Kaen University

Prince of Songkhla University

Edited by

T. Khuhaprema, P. Attasara

H. Sriplung, S. Wiangnon

S. Sangrajrang

Bangkok, 2013

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Foreword

We are proud to present Cancer in Thailand Vol VII (2007-2009), which we are publishing just 1 year after Vol VI (2004-2006). This report reflects the very good cooperation existing among cancer registries in the country. On World Cancer Day this year, February 4, 2013, the National Cancer Institute (NCI), in collaboration with other bodies, launched the second term National Cancer Control Program (NCCP). Since cancer has become the leading cause of death of Thai people, the Ministry of Public Health is strongly supporting the NCCP and envisages integration into service plans of the health care system at all levels. It is proposed that every regional center hospital should set up a hospital-based cancer registry. This will allow us to improve the quality of cancer registry data.

The cancer registry working committee also plans to conduct many activities in the next few years. We intend to produce a cancer registry guideline for the country and plan to introduce an audit system to help improve the quality of our population-based cancer registries. We also would like to publish data on cancer mortality, survival and trends over time.

On behalf of the NCI and the editors, I would like to thank all our collaborators for their help in providing the data presented in this volume. I would also like to express my gratitude to the devoted cancer registry staff in all the cancer centers for the immense amount of work that has been done in preparing the statistics and graphics.

The current volume provides a rich compendium of information on the cancer situation in Thailand. I hope that the data will be useful for cancer research as well as planning and monitoring our cancer control strategies.

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Secretarial staff:
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Amonrat SungKlomkleang
Rawat Tonglor

HOSPITALS AND INSTITUTES

CHIANG MAI

1. Chiang Mai University Hospital
2. Nakon Ping Hospital
3. Chiang Mai Army Hospital
4. Chiang Mai Police Hospital
5. Chiang Mai Municipal Hospital
6. McCormick Hospital
7. Lanna Hospital
8. Chiang Mai Ram Hospital
9. Roum-Paeth Hospital
10. Maccane Hospital
11. Central Chiangmai Memorial Hospital
12. Chiang Mai klaimor hospital
13. Changpeuk Hospital
14. Siamrad Chiang Mai Hospital
15. Theppunya Hospital
16. Chom Thong Hospital
17. Mae Chaem Hospital
18. Chiang Dao Hospital
19. Doi Saket Hospital
20. Mae Taeng Hospital
21. Mae Rim Hospital
22. Samoeng Hospital
23. Fang Hospital
24. Mae Ai Hospital
25. Phrao Hospital
26. San Pa Tong Hospital
27. San Kamphaeng Hospital
28. San Sai Hospital
29. Hang Dong Hospital
30. Hot Hospital
31. Doi Tao Hospital
32. Omkoi Hospital
33. Saraphi Hospital
34. Wiang Haeng Hospital
35. Chai Prakan Hospital
36. Mae Wang Hospital
37. King amphur Mae On Hospital
38. King amphur Doi Law Hospital
39. Public Health Centers
40. Provincial Chief Medical Officer’s Office
41. Rajavej Chiangmai Hospital

LAMPANG

1. Lampang Provincial Hospital
2. Provincial Public Health Service of Lampang
3. Private Hospitals in Lampang
    - 3.1. Khaelang-Ram Hospital
    - 3.2. Vansanwood Hospital
4. Surasakmontri Military Hospital
5. Community Hospitals
    - 5.1. Koh Kha Hospital
    - 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
    - 5.12. Muang Pan Hospital

UDON THANI

1. Udon Thani Cancer Center
2. Udon Thani Provincial Health Office
3. Udon Thani Province Hospital
4. Kai Prajuksilapakom Hospital
5. Udon Thani analytical Population Center
6. Ban Dung Hospital
7. Ban Phue Hospital
8. Chai Wan Hospital
9. Kumphawapi Hospital
10. Kut Chap Hospital
11. Na Yung Hospital
12. Nam Som Hospital
13. Non Sa-at Hospital
14. Nong Han Hospital
15. Nong Saeng Hospital
16. Nong Wua So Hospital
17. Phen Hospital
18. Phibun Rak Hospital
19. Sang Khom Hospital
20. Si That Hospital
21. Thung Fon Hospital
22. Wang Sam Mo Hospital

NAKHON PHANOM

1. Nakhon Phanom Provincial Health Office
2. Nakhon Phanom Hospital
3. Ban Phaeng Hospital
4. Bangkok Cancer Registry
5. Khon Kaen Cancer Registry
6. Mukdahan Hospital
7. Na Kae Hospital
8. Na Thom Hospital
9. Na Wa Hospital
10. National Cancer Institute
11. Phon Sawan Hospital
12. Pla Pak Hospital
13. Renu Nakhon Hospital
14. Sakhon Nakhon Hospital
15. Si Songkhram Hospital
16. Tha Uthen Hospital
17. That Phanom Hospital
18. Ubon Ratchathani Cancer Registry
19. Udon Thani Cancer Registry
20. Udon Thani Hospital
21. Wang Yang Hospital

KHON KAEN

1. Srinagarind Hospital, Faculty of Medicine Khon Kaen University
2. Khon Kaen Regional Hospital
3. Sripatcharin Army Hospital
4. Rachapruk Hospital
5. Khon Kaen Ram Hospital
6. All community Hospital in Khon Kaen Province, 24 community Hospitals consist of
    - 6.1 Ban Fang Hospital
    - 6.2 Ban Phai Hospital
    - 6.3 Ban Haet Hospital
    - 6.4 Non Sila Hospital
    - 6.5 Chonnabot Hospital
    - 6.6 Chum Phae Hospital
    - 6.7 Khao Suan Kwang Hospital
    - 6.8 Kranuan Hospital
    - 6.9 Sam Sung Hospital
    - 6.10 Mancha Khiri Hospital
    - 6.11 Khok Pho Chai Hospital
    - 6.12 Nam Phong Hospital
    - 6.13 Nong Ruea Hospital
    - 6.14 Nong Song Hong Hospital
    - 6.15 Phon Hospital
    - 6.16 Phra Yuen Hospital
    - 6.17 Phu Pha Man Hospital
    - 6.18 Phu Wiang Hospital
    - 6.19 Nong Na Kham Hospital
    - 6.20 Pueai Noi Hospital
    - 6.21 Si Chomphu Hospital
    - 6.22 Ubolratana Hospital
    - 6.23 Waeng Noi Hospital
    - 6.24 Waeng Yai Hospital

UBON RATCHATHANI

1. Ubonratchathani Cancer center
2. Ubonratchathani Public Health
3. Sap Pa Sitthi Prasong Hospital
4. Khongchiam Hospital
5. Sirinthorn Hospital
6. Warin Chamrap Hospital
7. Samrong Hospital
8. TanSum Hospital
9. Phibunmangsahan Hospital
10. Somdet Phra Yuppharat Hospital
11. Thung Si Udom Hospital
12. Nam Yuen Hospital
13. Buntharik Hospital
14. Khai Sap Sitthi Prasong Hospital
15. Na Chaluai Hospital
16. Khuang Nai Hospital
17. Muang Samsip Hospital
18. Trakan Phuetphon Hospital
19. Pho Sai Hospital
20. Si Mueang Mai Hospital
21. Don Mot Daeng Hospital
22. Kut Khaopun Hospital
23. Khemarat Hospital

LOP BURI

1. King Narai Hospital
2. King narai Cytotechnician
3. Anandamahidol Hospital
4. Phatthana Nikhom Hospital
5. Khok Samrong Hospital
6. Tha Wung Hospital
7. Ban Mi Hospital

KANCHANABURI

1. Phahonpolpayuhasaena Hospital
2. Makarak Hospital
3. Thong Pha Phum Hospital
4. Dan Makham Tia Hospital
5. Thamuang Hospital
6. Sai Yok Hospital
7. Bo Phloi Hospital
8. Sathan Phrabarami Hospital
9. Lao Khwan Hospital
10. Suksirisisawat Hospital
11. Somdejphrapiyamaharajrommaneeyaket Hospital
12. Sangkhlaburi Hospital
13. Huaikrachao Hospital
14. Fort Surasi Hospital
15. Kanchanaburi Memoria Hospital
16. Thanakan Hospital
17. Tharuea Hospital

PHRA NAKHON SI AYUTTHAYA

1. Phra Nakhon Si Ayutthaya Hospital
2. Sena Hospital
3. Tharuea Hospital
4. Bang say Hospital
5. Bang Sai Hospital
6. Bang Ban Hospital
7. Bang Pahan Hospital
8. Bang Pa In Hospital
9. Ban Phraek Hospital
10. Phak Hai Hospital
11. Phachi Hospital
12. Maharat Hospital
13. Lat Bua Luang Hospital
14. Wangnoi Hospital
15. Somdet Phra Sangkharat Hospital
16.U Thai Hospital
17. Navanakorn Hospital
18. Ratthanee Hospital
19. Supamitrsena Hospital

BANGKOK

1. Aekamarin General Hospital (Bangkae)
2. Ananta Pattana Hospital
3. Bamrasnaradura I.D. Hospital
4. Bangkok Adventist Hospital
5. Bangkok Cancer Center Hospital
6. Bangkok Chest Hospital
7. Bangkok General Hospital
8. Bangkok Metropolitan Administration General Hospital
9. Bangkok Nursing Home Hospital
10. Bangkok Pathology-Laboratory
11. Bangmod I Hospital
12. Bangmod II Hospital
13. Bangmod III Hospital
14. Bangna I Hospital
15. Bangna II Hospital
16. Bangpai Hospital
17. Bangpakok I Hospital
18. Bangpakok II Hospital
19. Bangpakok III Hospital
20. Bangpo General Hospital
21. Bhumibol Adulyadej Hospital
22. Bumrungrad Hospital
23. Burachat Chaiyakorn Hospital
24. Camilian Hospital
25. Cancer Institute, Siriraj Hospital
26. Central Chest Hospital
27. Central General Hospital
28. Chao Phraya Hospital
29. Charoenkrung Pracharaks Hospital
30. Chung Jen Hospital
31. Deja General Hospital
32. Division of Health Statistics Bureau of Health Policy and Plan Office
33. Dr. Panya General Hospital
34. Hospital for Tropical Disease
35. Hua Chiew General Hospital
36. Institute of Dermatology
37. Institute of Pathology
38. Jetanin Hospital
39. Jongjin Foundation Hospital
40. Karuna Pitak Hospital

41. Kasemrad Hospital Bang Khae
42. Kasemrad Hospital Prachachuen
43. King Chulalongkorn Memorial Hospital
44. Klongtun Hospital
45. Kluaynamthai Hospital
46. Krungdhon I Hospital
47. Krungdhon II Hospital
48. Ladkrabang Hospital
49. Ladprao General Hospital
50. Lerdsin Hospital
51. Mahachai II Hospital
52. Mahaesuk Hospital
53. Mayo Hospital
54. Metropolitan Electricity Authority Hospital
55. Mitraparp Wong Wian Yai Hospital
56. Mettapracharak Hospital
57. Mongkutwattana Hospital
58. Nakorn Thon Hospital
59. National Cancer Institute
60. Navaminthra Hospital
61. Nopparut Ratchatani Hospital
62. Pakkred Vejchakarn General Hospital
63. Paolo Memorial Hospital
64. Petcharavej Hospital
65. Piyavate Hospital Public company Limited
66. Phaya Thai I Hospital
67. Phaya Thai II Hospital
68. Phaya Thai III Hospital
69. Phra Monkutklao Hospital
70. Phranungklao Hospital
71. Police General Hospital
72. Praram 2 Hospital
73. Prasat Neurological Institute
74. Priest's Hospital
75. Prison Hospital of Ministry of Interia
76. Prommitr Hospital
77. Queen Sirikit National Institute of Child Health
78. Rajavithi Hospital
79. Rajburana Hospital
80. Rama 9 Hospital

81. Ramasuksawat Hospital
82. Ramathibodi Hospital
83. Ramkhamhaeng Hospital
84. Rattarin Hospital
85. Registration Processing Center
86. Royal Irrigation Hospital
87. Saint Louis Hospital
88. Salaya Hospital
89. Samitivej Hospital
90. Samitivej Srinakarin Hospital
91. Samrong Hospital
92. Siam Hospital
93. Sikarin Hospital
94. Sin Phaet Hospital
95. Somdej Prapinklaow Hospital
96. Srisiam Hospital
97. Srivichai I Hospital
98. Srivichai II Hospital
99. Srivichai III Hospital
100. St. Carlos Group of Health Services
101. Sukumvit Hospital
102. Surgical Pathology – Cytology Service
103. Taksin Hospital
104. Thailand Tobacco Monopoly Hospital
105. Thainakarin Hospital
106. Thammasat Chalermprakiat Hospital
107. The Bangkok Christian Hospital
108. Theptarin Hospital
109. Thon Buri I Hospital
110. Thon Buri II Hospital
111. Thain Fah Hospital
112. Vajira Hospital
113. Vejthani Hospital
114. Vejsawad Hospital
115. Veterans General Hospital
116. Vibha – Ram Hospital
117. Vibhavadi Hospital
118. Vichaiyud Hospital
119. Vichanyud Hospital
120. Yanhee General Hospital
121. Yaowarak Hospital
122. Yosae Hospital

RATCHABURI

1. Ratchaburi Hospital
2. Damnoensaduak Hospital
3. Banpong Hospital
4. Photharam Hospital
5. Chetsamian Hospital
6. Bang Phae Hospital
7. Paktho Hospital Ratchaburi
8. Watphleng Hospital
9. Chombueng Crow Prinee Hospital
10. Suan Phung Hospital
11. Fort Phanurangsi Hospital
12. Muangraj Hospital

CHON BURI

1. Chonburi Cancer Hospital
2. Chonburi Provincial Hospital
3. Banglamung Hospital
4. Botong Hospital
5. Banbung Hospital
6. Panatnikhom Hospital
7. Ko–Sichang Hospital
8. Sattahip Hospital
9. Nong Yai Hospital
10. Lame Charbang Hospital
11. Wat Yansangwararam Hospital
12. Panthong Hospital
13. Health Promoting Hospital
14. Health Science Center Burapha University
15. Chulalongkorn University Hospital
16. Cancer Institute, Siriraj Hospital, University Hospital Bangkok
17. National Cancer institute
18. Maha Vajiralongkorn Cancer Hospital
19. Queen Savangvadhana Memorial Hospital
20. Somdej pranangchao sirikit Hospital
21. Fort Nawamintharachini Hospital
22. Abhakornkiartiwong Hospital
23. Bangkok Hospital Pattaya
24. Pattaya Memorial Hospital
25. Pattaya International Hospital
26. Lamecharbang International Hospital
27. Samitivej Sriracha Hospital
28. Phya Thai Sriracha Hospital
29. Aikchol Hospital
30. Aikchol Hospital 2
31. Cholvaej Hospital
32. Piyavej Hospital

RAYONG

1. Chonburi Cancer Hospital
2. Chonburi Provincial Hospital
3. Rayong Provincial Hospital
4. Phra Pokkloa Hospital , Chanthaburi
5. Klaeng Hospital
6. Ban Khai Hospital
7. Ban Chang Hospital
8. Pluak Daeng Hospital
9. Wang Chan Hospital
10. Map Ta Phut Hospital
11. Khao Chamao Hospital
12. Nikhom Phatthana Hospital
13. Bangkok Hospital, Rayong
14. Ruampat Rayong Hospital
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7. Kui Buri Hospital
8. National Cancer Institute
9. Pran Buri Hospital
10. Rajchaburi Hospital
11. Sam Roi Yot Hospital
12. Thap Sakae Hospital

SURAT THANI

1. Suratthani Cancer Center Ban Chang Hospital
2. Suratthani Provincial Hospital
3. Kanchanadit Hospital
4. Don Sak Hospital
5. Koh Samui Hospital
6. Koh phangan Hospital
7. Chaiya Hospital
8. Tha Chana hospital
9. Khiri Rat Nikhom Hospital
10. Ban Ta Khun Hospital
11. Phanom Hospital
12. Tha Chang Hospital
13. Ban Na doem Hospital
14. Khian Sa Hospital
15. Wiang Sa Hospital
16. Pharasaeng Hospital
17. Phunphin Hospital
18. Chai Buri Hospital
19. Viphavdi Hospital
20. Thaksin Hospital

Death Certificate Only in Surat Thani
Bureau of Health Policy and Strategy,Ministry of Public Health

SONGKHLA

1. Songklanagarind Hospital
2. Songkhla Hospital
3. Hat Yai Hospital
4. Songklanagarind Dental Hospital
5. Raj Yindee Hospital
6. All Community Hospital in Songkhla Province
7. Provincial Chief Medical Officer's Office
8. Bangkok – Hat Yai Hospital
9. Sikharin Hospital
10. Udon Thani Cancer Center
11. Udon Thani Provincial Health Office
12. Udon Thani Province Hospital
13. Kai Prajuksilapakom Hospital
14. Udon Thani analytical Population Center
15. All Community Hospital in Udon Thani

PATHUM THANI

1. Thammasat University Hospital
2. Pathum Thani Hospital
3. Thanyaburi Hospital
4. Nong Sua Hospital
5. Lamlukka Hospital
6. Prachathipat Hospital
7. Samkhok Hospital
8. Latlumkaeo Hospital
9. Khlong Luang Hospital
10. Akepathum Hospital
11. Pathumvech Hospital
12. Phatara-Thonburi Hospital
13. Navanakorn General Hospital
14. Rangsit General Hospital
15. HRH Princess Maha Chakri Sirindhorn Medical center

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Chapter I

Registry Procedure and Statistical Methods

Registry Procedure and Statistical Methods

Pattarawin Attasara, M.D.
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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 consists 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). 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 in formation was obtained by scrutiny of hospital records, postal enquiries, and through the network of health care system.

Population denominators

The population denominator used for the calculation of rates were estimated Population Projections 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 2007-2009 in each registry area. They are shown in the section of each particular registry. The populations of Thailand and the four regions in 2008 were estimated from the Office of the National Economic and Social Development Board.

National estimate

The data from the two northern cancer registries of Chiang Mai and Lampang were first pooled by adding together the cases and the person-years at risk from the two registries. The same procedure was done in the northeastern region by adding together cases and person-years at risk from Nakhon Phanom, UdonThani, KhonKaen and UbonRatchatani Lop Buri, Kanchanaburi, Phra Nakhon Si Ayutthaya, Ratchaburi, Bangkok, Chonburi, Rayong and Prachuap Khiri Khan were representatives of the central region. Surat Thani and Songkhla were the representation of cancer registry in the southern region.

Then the age (five-year age groups) and sex specific rates for the four regions of Thailand excluding Bangkok were calculated. When expected cases for the four regions and the actual cases of Bangkok were combined together, the expected number of cases and estimated ASRs for 2005 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 x 100,000
Ni = Number of new cancer 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. 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 II

Cancer Incidence in Thailand

Cancer Incidence in Thailand

Pattarawin Attasara, M.D.
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The first population-based cancer registry started in 1986 in Chiang Mai, followed by Khon Kaen in 1988, Songkhla and 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, Songkhla, 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 (Sriplung et al., 2003) volumes were published in series.

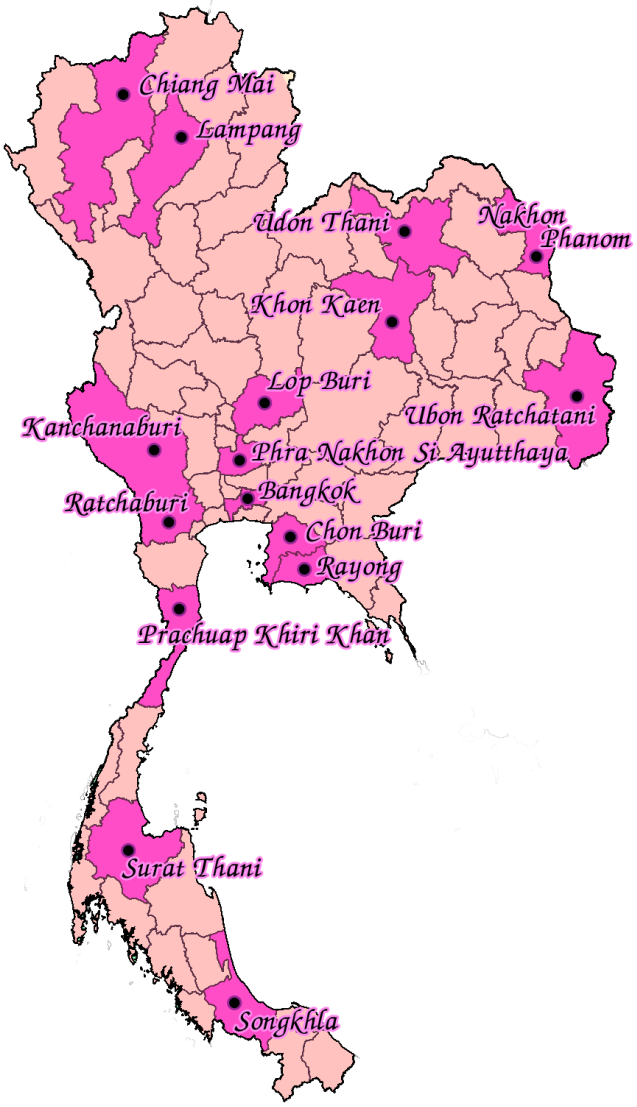
Registration area

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 Burma, 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 Burma. 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 513,155 square kilometers. The climate of the country as a whole is tropical and characterized by monsoons. Thailand is divided into 76 provinces, within four geographical regions: the Northern, Northeastern, Southern and Central. The geographic area covered by the sixteen population based cancer registries are shown in Figure 2.1.1 and the estimated population in each province by sex is shown in Table 2.1.1

Table 2.1.1 Land area and estimated population in 2008

Provinces	Population Density (person / km^2)	Land area (km^2)	Estimated population Male	Estimated population Female
Chiang Mai	76.86	20,107	763,975	781,356
Lampang	64.72	12,534	403,981	407,196
Udon Thani	126.70	11,730	747,007	739,191
Nakhon Phanom	126.43	5,512	346,457	350,423
Khon Kaen	163.44	10,886	885,942	893,289
Ubon Ratchatani	109.36	15,745	862,641	859,195
Lop Buri	129.18	6,200	395,762	405,166
Kanchanabulri	39.94	19,483	385,231	392,910
Phra Nakhon Si Ayutthaya	304.23	2,556	374,037	403,584
Bangkok	4,159.60	1,569	3,158,752	3,367,664
Ratchaburi	163.13	5,196	410,251	437,371
Chon Buri	251.90	4,363	546,943	552,094
Rayong	155.09	3,552	277,057	273,819
Prachuap Khiri Khan	74.74	6,368	236,509	239,417
Surat Thani	70.07	12,891	449,344	453,918
Songkhla	176.90	7,394	640,116	667,891
Thailand	**122.06**	**513,155**	**31,125,348**	**31,511,401**

Figure 2.1.1 Thailand regions and area covered by the cancer registries



Population pyramid, Thailand, 2008

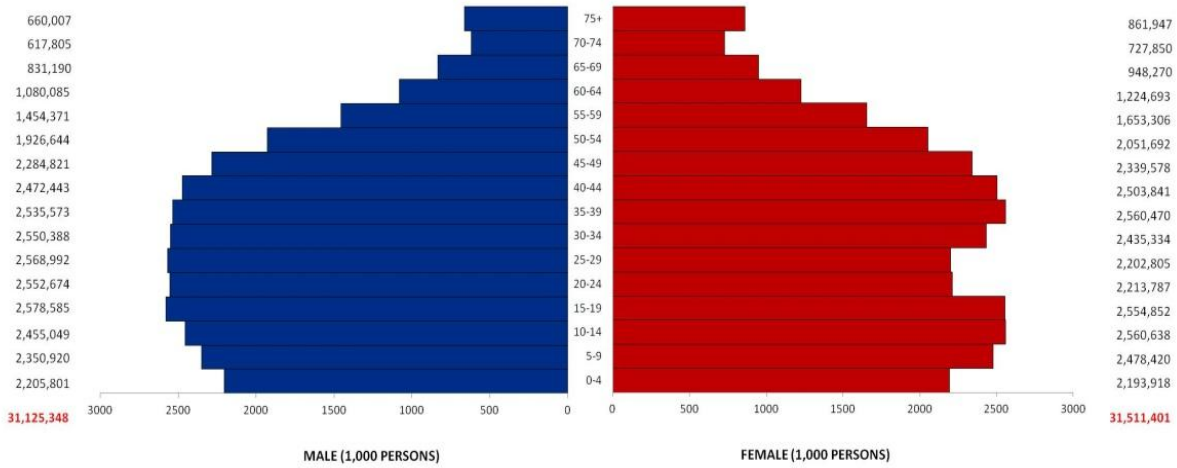


Table 2.1.2 Age-standardized incidence rates (ASR), all sites, 2008

Provinces	Male		Female	
	Cases	ASR	Cases	ASR
Chiang Mai	1,431	152.0	1,671	165.8
Lampang	847	160.4	823	142.4
Udon Thani	1,065	161.8	1,105	143.3
Nakhon Phanom	559	165.8	533	133.7
Khon Kaen	1,319	148.2	1,355	127.9
Ubon Ratchatani	1,498	170.6	1,408	143.2
Lop Buri	765	164.7	862	162.7
Kanchanabulri	521	138.8	599	135.1
Phra Nakhon Si Ayutthaya	479	110.8	568	108.5
Bangkok	5,070	176.4	5,568	170.2
Ratchaburi	567	121.2	587	102.9
Chon Buri	993	199.2	1,166	190.4
Rayong	515	210.1	527	177.2
Prachuap Khiri Khan	318	136.4	346	124.6
Surat Thani	560	123.1	579	110.3
Songkhla	968	144.4	882	114.3
Thailand	**50,966**	**156.7**	**51,825**	**138.2**

The age-standardized incidence rates (ASR) of cancer at all sites ranged from 110.8 (Males) in Phra Nakhon Si Ayutthaya and 102.9 (Females) in Ratchaburi to 210.1 (Males) in Rayong and 190.4 (Females) in Chon Buri (Table 2.1.2, Figure 2.1.2).

Figure 2.1.2 Age-standardized incidence rates (ASR), all sites, 2008

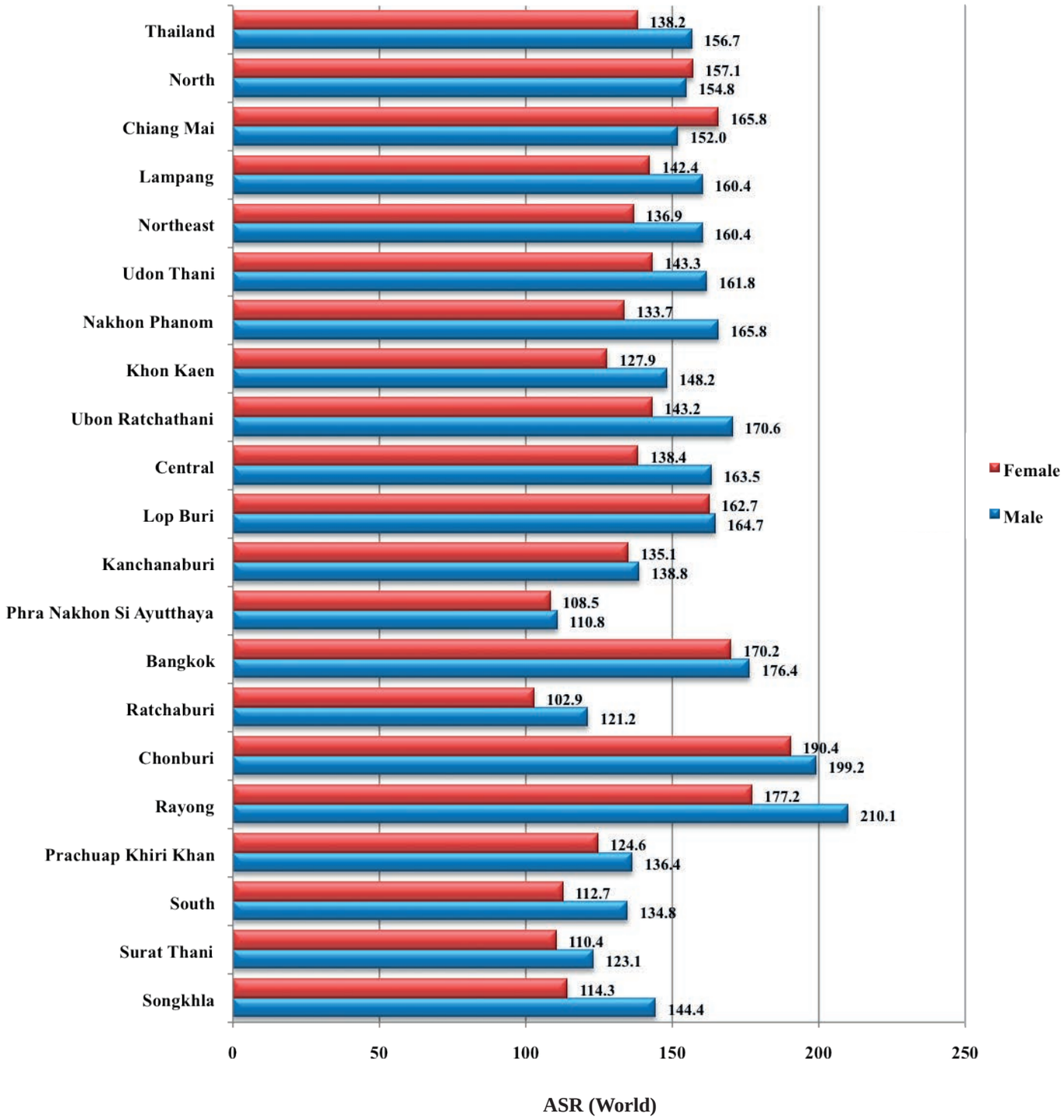


Figure 2.1.3 Leading cancer in Thailand (estimated), 2008

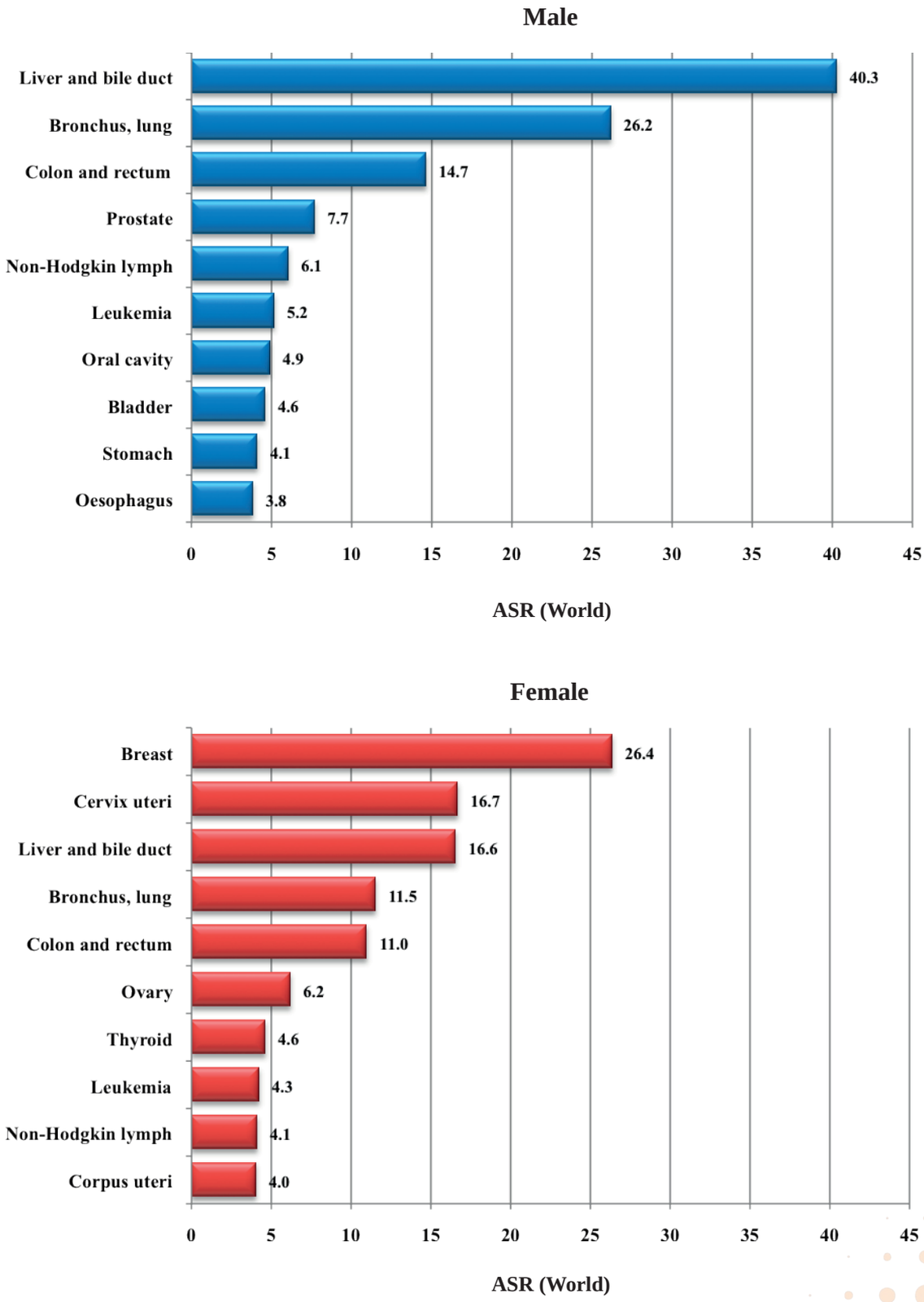


Table 2.2.1 Thailand (2008), Annual Incidence per 100,000 by Age Group (years) - Male

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	65	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.3	0.2	0.4	0.9	0.5	1.3	2.2	0.2	0.2	C00
Tongue	756	0.1	0.1	0.1	0.0	0.1	0.2	0.5	1.5	2.0	3.5	5.5	6.2	8.3	10.0	15.3	14.7	2.4	2.3	C01-02
Mouth	655	0.1	0.1	0.1	0.0	0.0	0.2	0.4	0.4	1.2	2.3	3.9	6.1	9.0	8.6	12.3	19.0	2.1	2.0	C03-06
Salivary glands	148	0.1	0.0	0.0	0.1	0.1	0.2	0.2	0.4	0.5	0.6	0.8	1.5	2.1	1.7	1.4	2.2	0.5	0.4	C07-08
Tonsil	253	0.1	0.1	0.2	0.0	0.0	0.0	0.2	0.4	0.5	1.4	2.2	2.6	2.3	1.8	5.5	4.9	0.8	0.7	C09
Other oropharynx	106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.8	0.9	1.0	1.5	1.9	3.7	0.3	0.3	C10
Nasopharynx	1,053	0.0	0.1	0.4	0.5	0.6	0.9	1.6	3.2	4.0	5.9	7.3	10.2	10.1	11.8	9.6	12.3	3.4	3.1	C11
Hypopharynx	390	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.6	2.4	3.5	4.0	6.4	8.5	10.6	1.3	1.2	C12-13
Pharynx unspecified	77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.8	0.9	1.6	2.7	0.2	0.2	C14
Esophagus	1,258	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	2.1	4.7	9.2	13.5	17.7	18.8	22.1	32.5	4.0	3.8	C15
Stomach	1,347	0.0	0.0	0.0	0.0	0.2	0.6	0.9	1.2	2.4	4.2	7.8	11.0	15.9	20.8	29.8	42.3	4.3	4.1	C16
Small intestine	123	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.4	0.2	0.8	0.7	1.7	1.6	3.7	3.0	0.4	0.4	C17
Colon	2,775	0.0	0.0	0.1	0.4	0.6	1.7	1.7	3.5	5.5	8.3	14.8	23.2	30.3	43.2	58.7	87.2	8.9	8.5	C18
Rectum	1,935	0.0	0.0	0.1	0.1	0.4	0.7	0.8	1.7	3.5	5.9	10.1	17.0	24.1	33.5	42.4	56.4	6.2	6.0	C19-20
Anus	80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.4	0.3	0.6	1.1	1.4	1.3	2.4	0.3	0.2	C21
Liver and bile duct	13,281	0.9	0.3	0.2	0.3	0.6	2.1	6.0	14.2	29.9	52.8	97.1	138.7	174.9	218.4	238.9	249.8	42.7	40.3	C22,C24
Gallbladder	367	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	1.5	1.2	2.3	3.3	8.1	9.9	14.7	1.2	1.1	C23
Pancreas	647	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.5	1.5	2.7	3.0	6.2	7.8	11.3	14.0	16.5	2.1	2.0	C25
Nose, sinuses etc.	187	0.0	0.0	0.1	0.1	0.0	0.1	0.2	0.4	0.4	0.7	1.0	2.0	1.9	3.1	2.7	3.3	0.6	0.6	C30-31
Larynx	801	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.5	1.1	2.7	5.1	6.8	9.8	15.3	17.0	23.7	2.6	2.5	C32
Trachea, Bronchus, and lung	8,403	0.0	0.0	0.0	0.2	0.3	1.0	2.1	5.8	11.6	20.2	37.9	70.7	102.5	158.2	233.3	272.0	27.0	26.2	C33-34
Other thoracic organs	131	0.1	0.1	0.3	0.5	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.5	1.0	1.0	1.2	1.3	0.4	0.4	C37-38
Bone	336	0.3	0.3	1.1	1.4	0.6	0.4	0.3	0.6	0.8	1.2	1.5	2.2	3.1	3.0	2.6	4.8	1.1	1.1	C40-C41
Melanoma of skin	157	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.4	0.6	1.0	1.0	1.2	2.0	4.0	4.8	0.5	0.5	C43
Other skin	1,192	0.0	0.0	0.1	0.3	0.1	0.5	1.0	1.4	2.0	2.4	4.5	7.4	11.9	16.6	28.3	54.9	3.8	3.7	C44
Mesothelioma	21	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.2	0.3	0.3	0.7	0.1	0.1	C45
Kaposi sarcoma	15	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	C46
Connective tissue	374	0.9	0.2	0.4	0.5	0.5	0.6	0.7	1.2	1.2	1.1	2.0	2.9	3.5	2.5	4.7	4.9	1.2	1.2	C47,C49
Breast	138	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.3	0.6	0.4	1.0	1.4	1.5	1.5	1.6	2.7	0.4	0.4	C50
Penis	420	0.0	0.2	0.0	0.1	0.2	0.3	0.6	1.0	1.6	1.9	2.3	2.9	4.6	4.7	6.6	8.9	1.4	1.2	C60
Prostate	2,400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.2	3.5	10.8	24.3	49.0	82.7	144.9	7.7	7.7	C61
Testis	199	0.3	0.1	0.2	0.6	0.5	0.9	1.3	1.0	0.7	0.7	0.5	0.4	0.7	0.6	1.1	1.1	0.6	0.6	C62
Other male genital organs	15	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.2	0.1	0.2	0.0	0.3	0.0	0.0	C63
Kidney	530	0.8	0.1	0.0	0.0	0.1	0.2	0.2	0.5	1.1	1.6	3.8	6.9	5.7	8.0	9.4	9.7	1.7	1.6	C64
Renal pelvis	45	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.3	0.6	0.5	0.7	1.1	1.0	0.1	0.1	C65
Ureter	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.3	0.4	0.9	0.9	0.6	0.1	0.1	C66
Bladder	1,476	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.5	1.4	3.4	5.4	11.2	16.0	25.0	35.3	70.9	4.7	4.6	C67
Other urinary organs	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.2	0.6	0.6	0.1	0.0	C68
Eye	93	0.9	0.1	0.0	0.1	0.1	0.1	0.0	0.3	0.3	0.1	0.2	0.4	0.6	0.6	0.7	2.2	0.3	0.3	C69
Brain, nervous system	968	1.7	1.8	2.2	1.7	0.7	1.5	1.7	2.9	2.9	3.5	4.1	5.9	7.5	8.7	10.0	13.0	3.1	3.0	C70-72
Thyroid	551	0.1	0.1	0.1	0.3	0.6	0.9	1.1	1.2	1.8	2.3	3.9	3.6	5.3	6.9	7.3	8.3	1.8	1.6	C73
Adrenal gland	34	0.4	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.4	0.4	0.1	0.3	0.1	0.1	C74
Other endocrine	23	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.6	0.1	0.1	C75
Hodgkin disease	140	0.1	0.5	0.2	0.4	0.6	0.4	0.3	0.3	0.5	0.4	0.6	0.8	0.5	0.7	0.3	2.1	0.4	0.4	C81
Non-Hodgkin lymphoma	1,994	0.8	1.1	1.1	1.7	1.8	1.8	2.8	4.2	5.5	7.3	10.1	15.1	20.0	26.5	29.9	41.1	6.4	6.1	C82-85,C96
Immunoproliferative diseases	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	0.2	0.0	0.0	0.0	0.0	C88
Multiple myeloma	303	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.6	1.1	1.9	2.7	4.3	4.5	5.1	9.0	1.0	0.9	C90
Lymphoid leukemia	399	3.2	2.7	2.1	0.9	0.4	0.5	0.5	0.2	0.4	0.5	1.0	1.2	1.5	1.9	2.5	6.2	1.3	1.5	C91
Myeloid leukemia	664	1.5	0.5	0.8	0.7	1.3	1.0	1.1	1.1	1.7	2.3	3.4	4.3	4.1	8.1	7.9	12.9	2.1	2.1	C92-94
Leukemia unspecified	492	1.6	0.7	0.7	0.5	0.8	0.6	0.9	1.0	0.8	1.6	1.7	2.1	3.5	5.4	6.7	12.4	1.6	1.6	C95
Other and unspecified	3,093	0.5	0.3	0.6	0.6	0.9	1.5	2.6	3.6	5.6	10.8	16.5	26.8	36.0	50.1	62.8	81.6	9.9	9.5	O&U
All sites	**50,961**	**14.5**	**9.5**	**11.7**	**12.6**	**13.2**	**20.7**	**32.6**	**57.8**	**99.5**	**166.1**	**281.8**	**436.5**	**588.1**	**807.1**	**1045.0**	**1377.8**	**163.7**	**156.7**	**ALL**

Table 2.2.2 Thailand (2008), Annual Incidence per 100,000 by Age Group (years) –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	321	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.7	0.8	2.7	4.8	9.4	15.9	1.0	0.9	C00
Tongue	288	0.0	0.0	0.2	0.2	0.0	0.1	0.1	0.7	1.1	1.1	1.9	2.2	2.3	3.2	1.9	6.7	0.9	0.8	C01-02
Mouth	560	0.4	0.2	0.0	0.1	0.3	0.3	0.4	0.6	0.6	1.0	1.2	2.6	3.8	6.9	12.7	22.4	1.8	1.5	C03-06
Salivary glands	170	0.0	0.0	0.0	0.2	0.1	0.3	0.6	0.7	0.6	0.7	0.6	1.6	0.9	1.5	1.5	1.9	0.5	0.5	C07-08
Tonsil	73	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.4	0.4	0.3	0.4	0.7	1.0	1.6	0.2	0.2	C09
Other oropharynx	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.2	0.3	1.0	0.1	0.1	C10
Nasopharynx	425	0.0	0.0	0.0	0.2	0.3	0.5	0.8	1.2	1.6	2.3	3.4	4.3	3.4	2.5	2.9	3.2	1.3	1.1	C11
Hypopharynx	46	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.3	0.3	0.5	0.9	1.3	0.1	0.1	C12-13
Pharynx unspecified	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.3	0.5	0.7	0.1	0.1	C14
Esophagus	265	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.1	0.4	1.0	2.0	2.2	3.0	5.8	10.9	0.8	0.7	C15
Stomach	961	0.0	0.0	0.0	0.0	0.2	0.9	1.4	2.0	3.4	3.2	4.9	7.6	6.0	11.0	16.8	19.2	3.0	2.5	C16
Small intestine	118	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.2	0.4	0.6	1.2	0.9	2.5	0.9	2.2	0.4	0.3	C17
Colon	2,574	0.0	0.0	0.0	0.2	0.4	1.2	1.6	3.1	5.6	8.1	14.7	21.6	24.2	33.8	37.8	61.9	8.2	6.8	C18
Rectum	1,477	0.0	0.0	0.0	0.2	0.3	0.3	1.1	1.5	3.3	5.7	9.2	11.2	13.9	17.7	25.4	32.3	4.7	3.9	C19-20
Anus	93	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.9	1.2	0.9	1.5	2.1	0.3	0.2	C21
Liver and bile duct	6,143	0.4	0.0	0.1	0.2	0.4	0.7	2.3	4.3	8.9	16.0	30.9	53.7	71.5	95.3	120.5	134.7	19.5	16.6	C22,C24
Gallbladder	413	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.7	1.5	2.5	4.8	5.9	9.0	15.2	1.3	1.1	C23
Pancreas	610	0.0	0.0	0.0	0.0	0.1	0.0	0.5	0.3	1.0	1.3	3.0	4.6	6.5	7.8	13.1	16.7	1.9	1.6	C25
Nose, sinuses etc.	107	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.2	0.6	0.5	0.6	0.9	0.9	0.5	1.5	1.6	0.3	0.3	C30-31
Larynx	116	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.2	0.4	0.3	0.6	1.2	1.6	2.0	3.9	0.4	0.3	C32
Trachea, Bronchus, and lung	4,322	0.0	0.0	0.1	0.0	0.4	0.7	2.2	3.5	5.9	11.7	21.1	36.4	43.0	66.7	78.2	112.0	13.7	11.5	C33-34
Other thoracic organs	61	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.3	0.1	0.1	0.4	0.4	0.7	0.3	0.3	1.2	0.2	0.2	C37-38
Bone	291	0.2	0.4	0.8	0.8	0.2	0.8	0.6	0.4	0.6	0.9	1.4	1.2	2.2	1.6	4.7	3.5	0.9	0.8	C40-C41
Melanoma of skin	153	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.3	0.3	0.7	0.9	1.2	1.4	1.3	2.7	3.0	0.5	0.4	C43
Other skin	1,300	0.1	0.0	0.2	0.3	0.1	0.4	1.0	1.0	1.6	3.3	4.3	7.3	10.6	15.8	26.1	49.3	4.1	3.4	C44
Mesothelioma	11	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	0.2	0.0	0.4	0.0	0.0	C45
Kaposi sarcoma	7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	345	0.8	0.1	0.3	0.7	0.4	0.6	0.8	0.8	1.1	1.2	1.9	2.3	1.9	3.2	1.8	4.5	1.1	1.0	C47,C49
Breast	10,193	0.0	0.0	0.0	0.6	1.1	5.0	13.9	32.0	50.5	77.8	86.6	95.5	74.3	63.8	61.1	56.4	32.3	26.4	C50
Vulva	162	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.2	0.2	0.4	0.9	0.8	1.7	1.7	3.5	4.4	0.5	0.4	C51
Vagina	89	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.2	0.5	1.3	0.8	0.4	1.2	1.6	0.3	0.2	C52
Cervix uteri	6,453	0.0	0.0	0.0	0.2	0.8	3.2	10.8	22.3	32.7	43.3	48.7	56.4	46.6	44.8	44.4	51.6	20.5	16.7	C53
Corpus uteri	1,537	0.0	0.0	0.0	0.0	0.0	0.2	0.8	1.6	3.8	7.7	15.0	23.2	15.8	14.3	13.8	8.9	4.9	4.0	C54
Uterus unspecified	186	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.2	0.5	1.0	1.0	1.8	1.7	2.5	2.1	2.5	0.6	0.5	C55
Ovary	2,318	0.3	0.4	1.0	1.6	2.0	2.7	3.8	4.5	9.3	14.2	20.6	19.7	18.5	15.4	16.3	14.3	7.4	6.2	C56
Other female genital	39	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.4	0.4	0.4	0.4	0.2	0.8	0.1	0.1	C57
Placenta	60	0.0	0.0	0.0	0.1	0.6	0.3	0.5	0.5	0.2	0.2	0.1	0.3	0.1	0.1	0.2	0.0	0.2	0.2	C58
Kidney	263	0.5	0.2	0.0	0.1	0.2	0.1	0.4	0.4	0.6	0.8	1.5	1.4	2.9	3.5	3.3	4.5	0.8	0.7	C64
Renal pelvis	36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.6	0.4	0.7	0.5	0.6	0.1	0.1	C65
Ureter	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.2	0.3	0.7	0.9	0.1	0.1	C66
Bladder	403	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.5	0.9	1.3	2.4	4.0	6.3	7.3	15.6	1.3	1.1	C67
Other urinary organs	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.4	0.1	0.4	0.2	0.0	0.0	C68
Eye	90	1.0	0.0	0.0	0.1	0.0	0.1	0.2	0.2	0.2	0.4	0.1	0.4	0.3	0.6	0.9	1.2	0.3	0.3	C69
Brain, nervous system	833	1.6	2.0	1.3	0.7	0.8	1.2	1.5	2.5	3.3	3.5	4.0	4.8	5.3	5.3	6.6	7.6	2.6	2.4	C70-72
Thyroid	1,719	0.0	0.1	0.5	1.5	3.3	4.7	5.9	6.6	7.4	8.1	9.4	10.4	7.8	11.2	14.1	15.3	5.5	4.6	C73
Adrenal gland	29	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.2	0.2	0.1	0.3	0.1	0.1	0.1	C74
Other endocrine	32	0.0	0.0	0.0	0.2	0.1	0.1	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.5	0.2	0.1	0.1	C75
Hodgkin disease	100	0.0	0.2	0.2	0.2	0.3	0.6	0.3	0.3	0.3	0.2	0.5	0.5	0.4	0.4	0.2	0.5	0.3	0.3	C81
Non-Hodgkin lymphoma	1,524	0.3	0.3	0.6	0.8	1.6	1.8	2.5	2.8	3.6	4.9	9.2	12.1	13.0	13.8	20.3	26.9	4.8	4.1	C82-85,C96
Immunoproliferative diseases	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	0.1	0.0	0.0	0.0	C88
Multiple myeloma	314	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.4	0.5	2.0	3.0	4.7	4.1	4.5	6.6	1.0	0.9	C90
Lymphoid leukemia	296	3.2	1.5	1.0	0.7	0.7	0.3	0.3	0.6	0.5	0.3	0.6	0.8	0.9	1.8	1.7	1.9	0.9	1.1	C91
Myeloid leukemia	624	1.5	0.4	0.8	0.9	0.8	1.0	2.0	1.2	1.6	2.5	2.3	3.2	2.8	7.2	7.8	7.4	2.0	1.8	C92-94
Leukemia unspecified	464	1.1	0.6	0.8	0.6	0.4	0.6	1.0	0.9	1.1	1.4	2.2	2.2	2.1	4.4	5.4	8.6	1.5	1.3	C95
Other and unspecified	2,726	1.0	0.3	0.3	0.4	1.0	1.8	2.9	4.5	6.8	8.8	13.6	19.0	25.0	33.0	43.7	60.9	8.7	7.3	O&U
All sites	**51,825**	**13.3**	**6.9**	**8.6**	**11.8**	**17.4**	**31.8**	**62.0**	**104.3**	**161.4**	**238.6**	**326.7**	**429.2**	**437.3**	**526.0**	**640.4**	**829.1**	**164.5**	**138.2**	**ALL**

Oral cavity

Figure 2.2.1 Oral cavity cancer in different regions, 2008

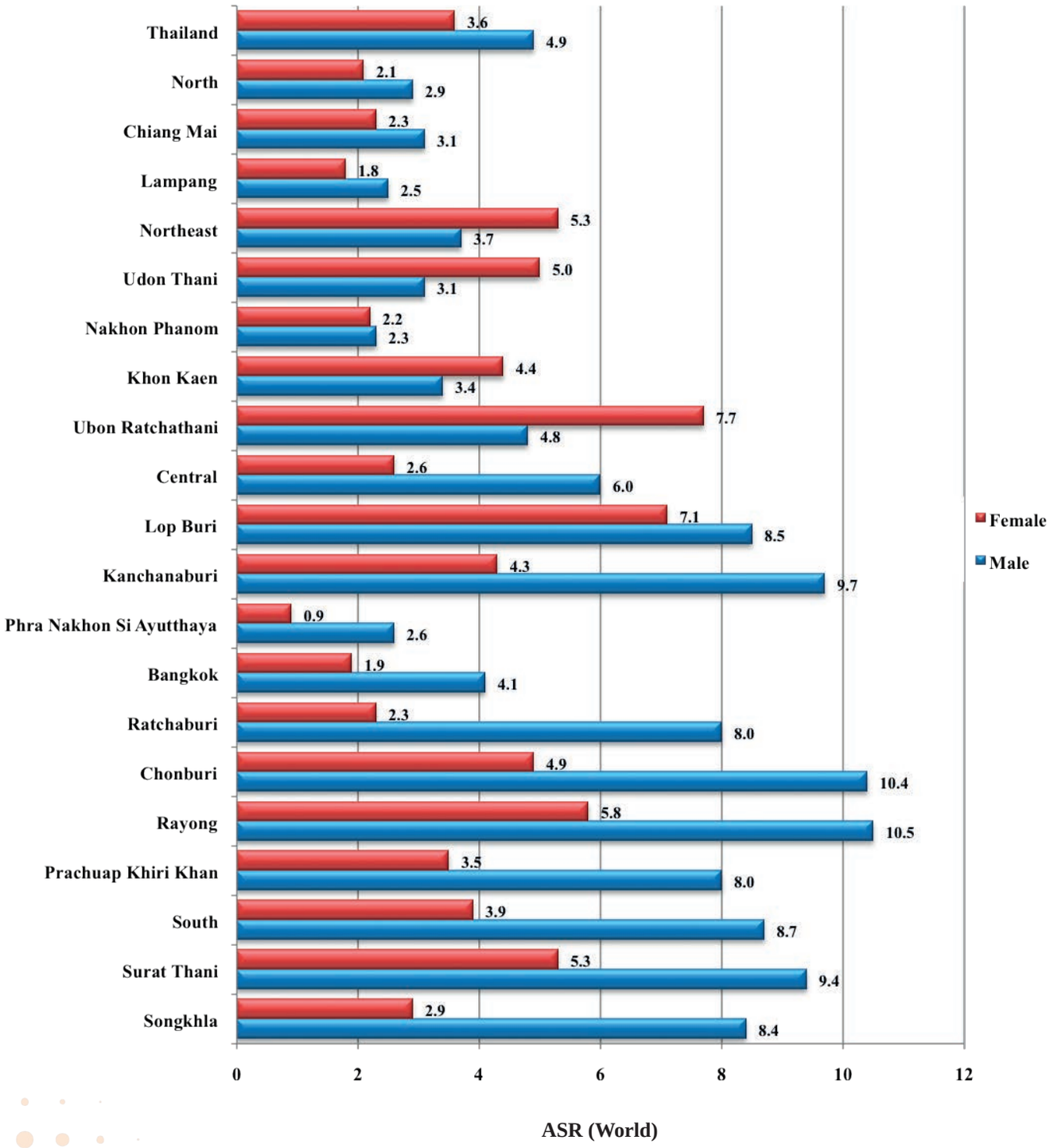


Figure 2.2.2 Age-specific incidence rates of oral cavity cancer, 2008

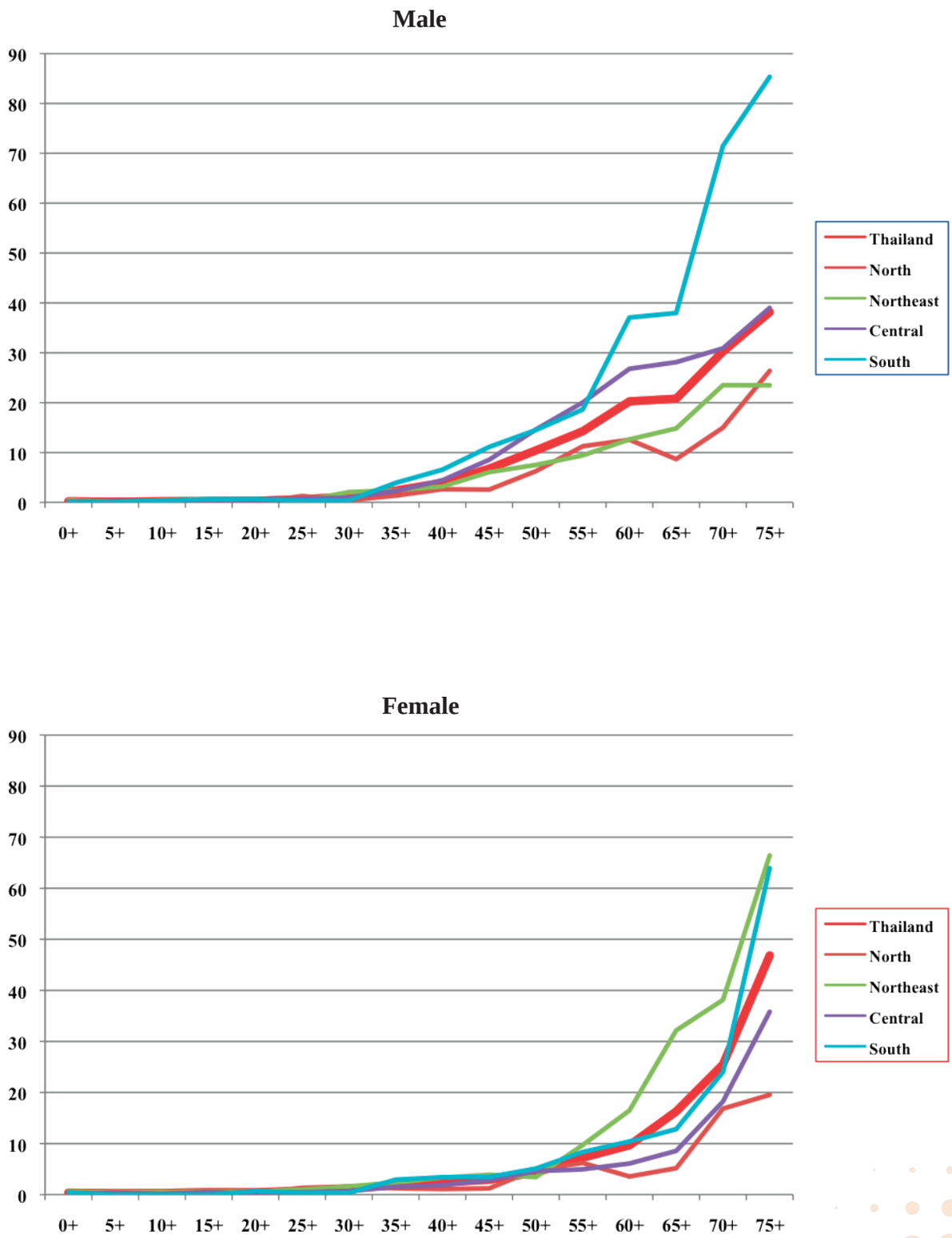
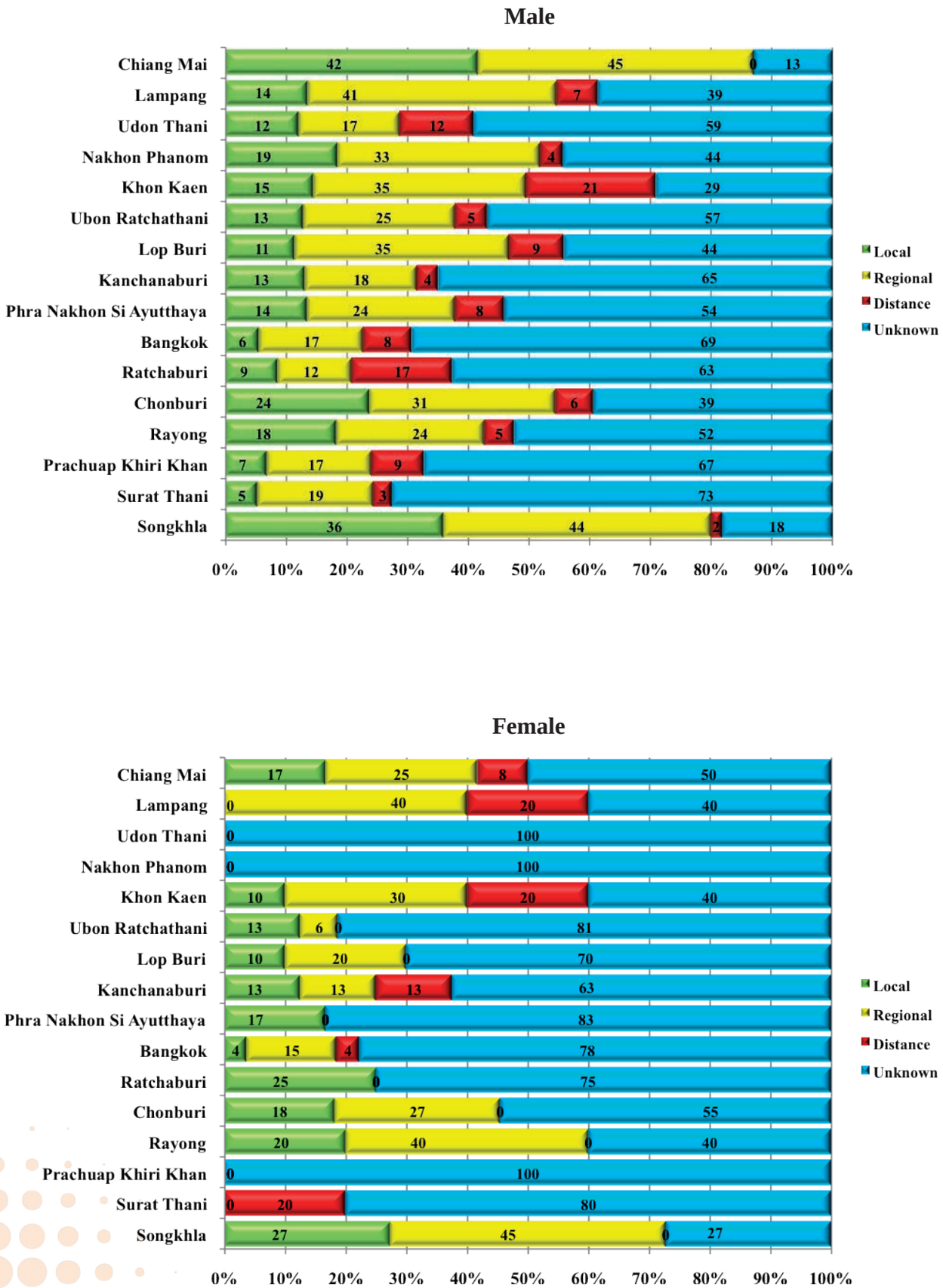


Figure 2.2.3 Stage distribution of oral cavity cancer, 2008



Oropharynx

Figure 2.3.1 Oropharynx cancer in different regions, 2008

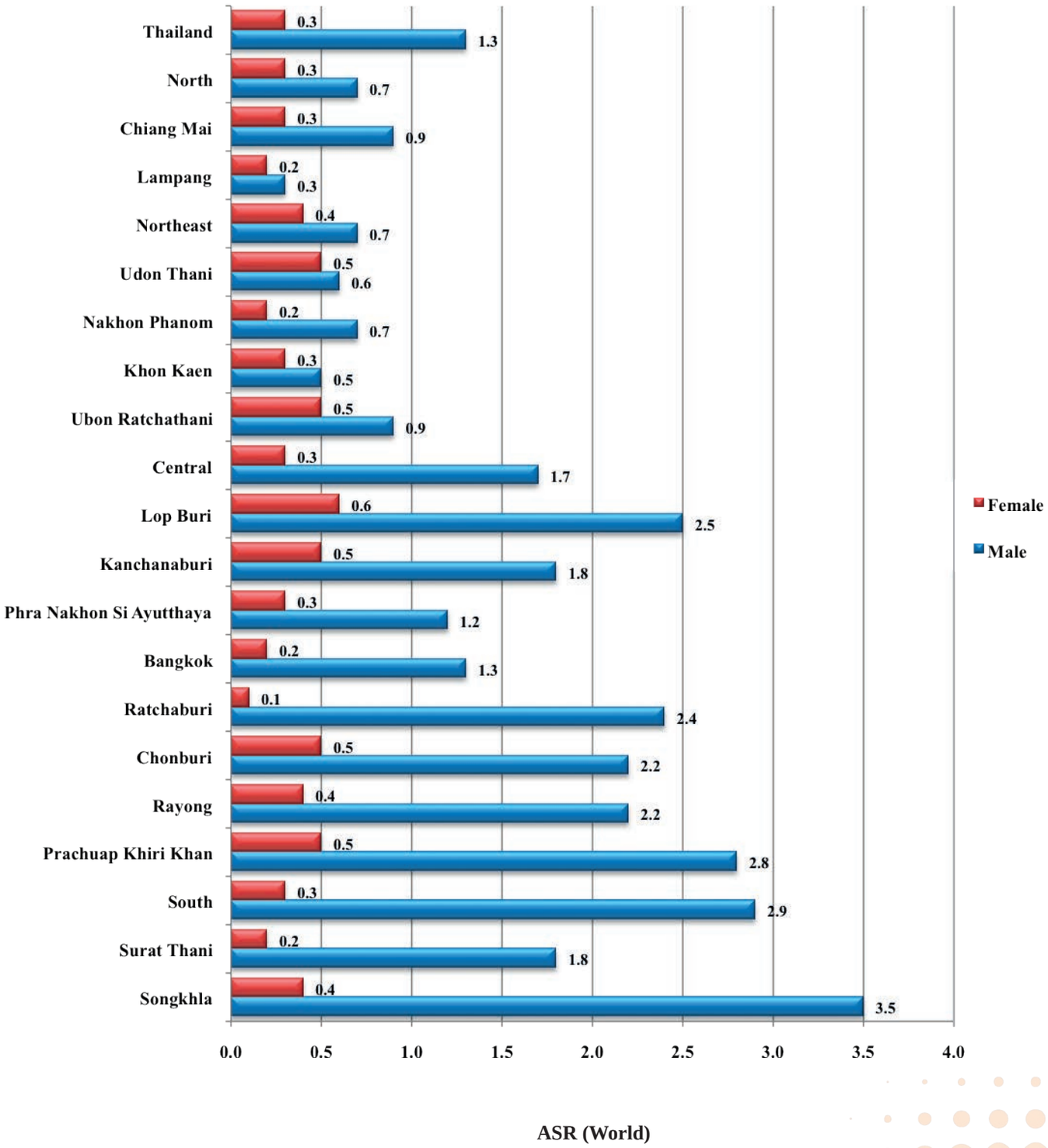
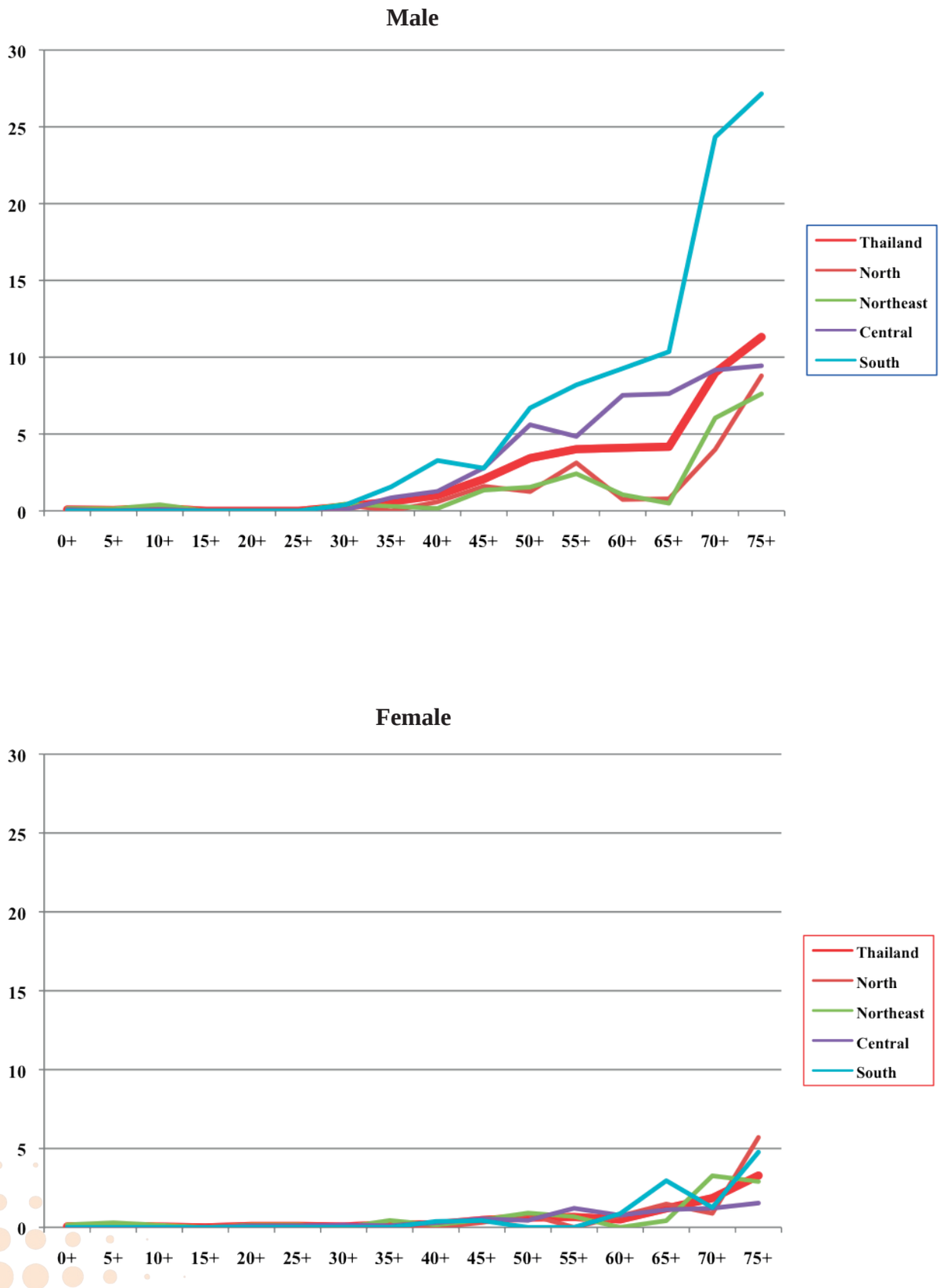


Figure 2.3.2 Age-specific incidence rates of oropharynx cancer, 2008



Nasopharynx

Figure 2.4.1 Nasopharynx cancer in different regions, 2008

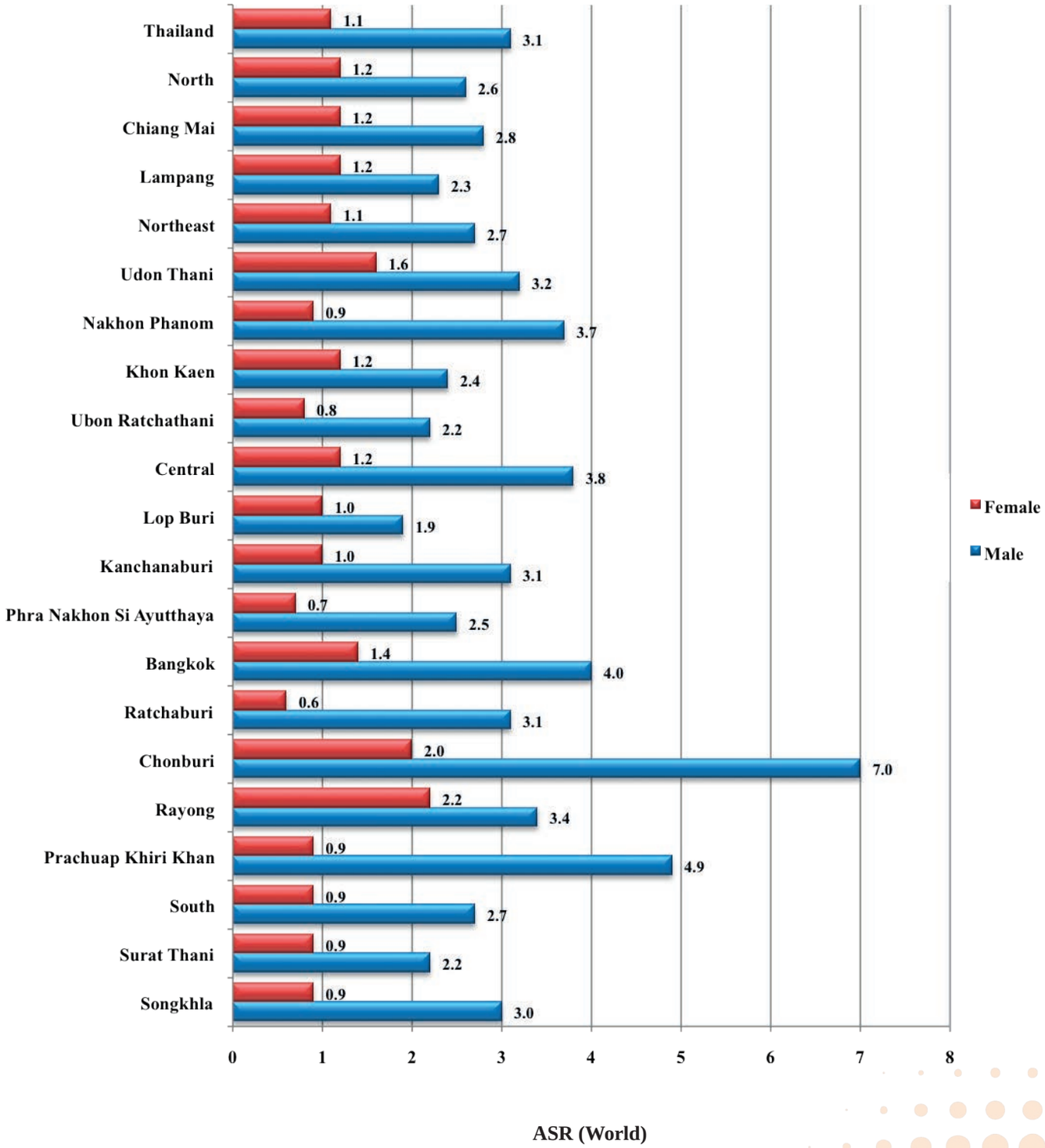


Figure 2.4.2 Age-specific incidence rates of nasopharynx cancer, 2008

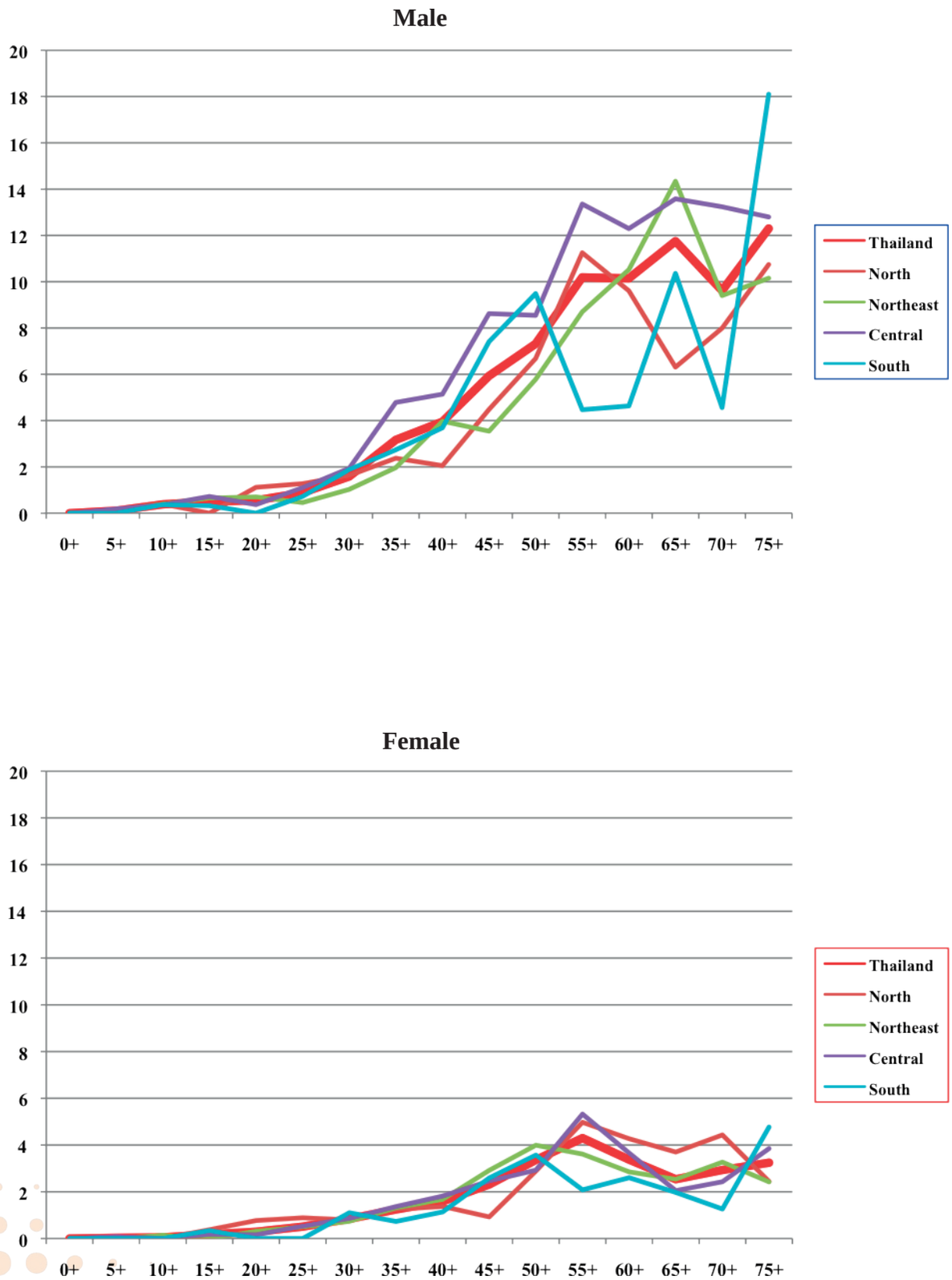
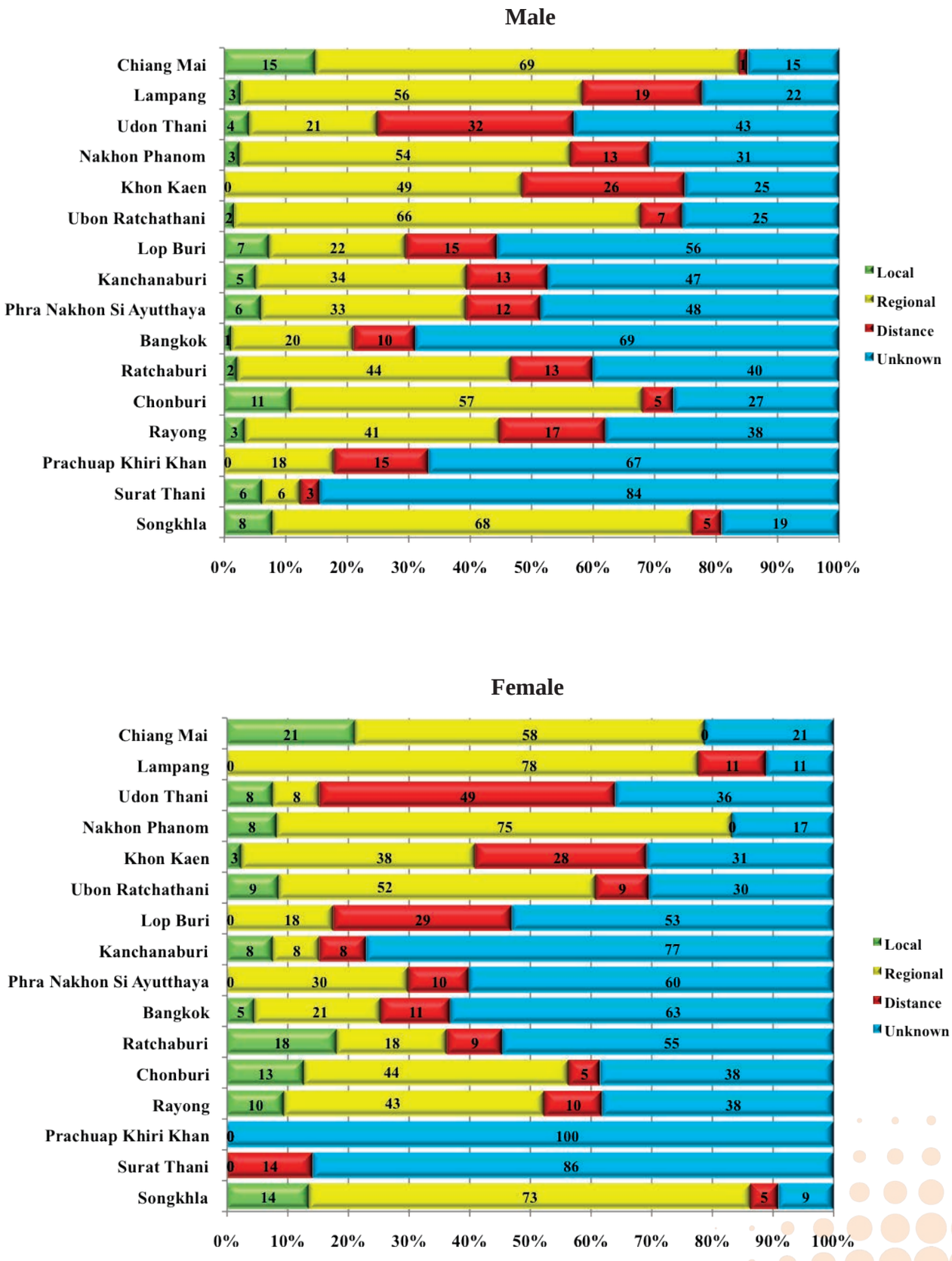


Figure 2.4.3 Stage distribution of nasopharynx cancer, 2008



Hypopharynx

Figure 2.5.1 Hypopharynx cancer in different regions, 2008

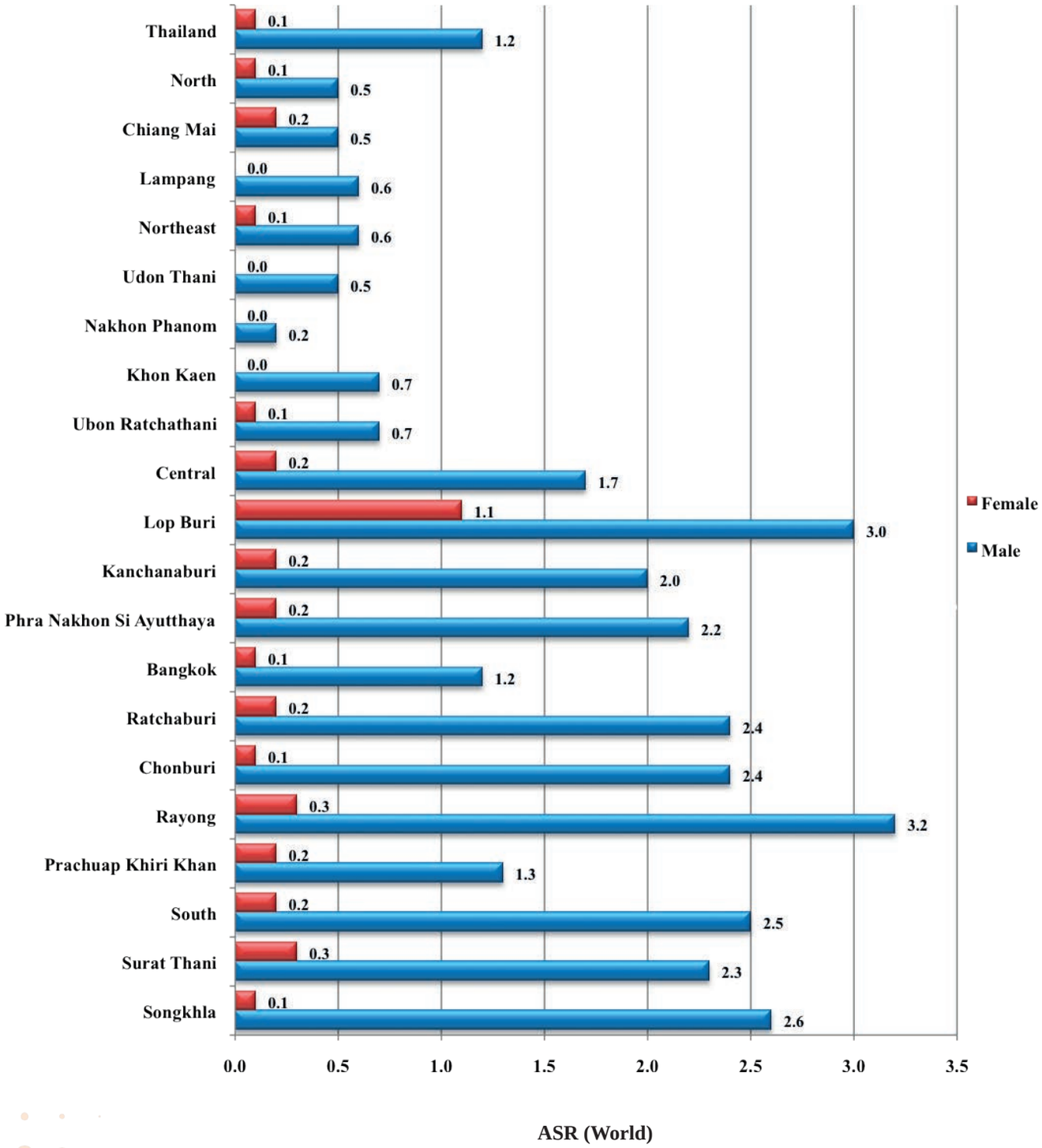
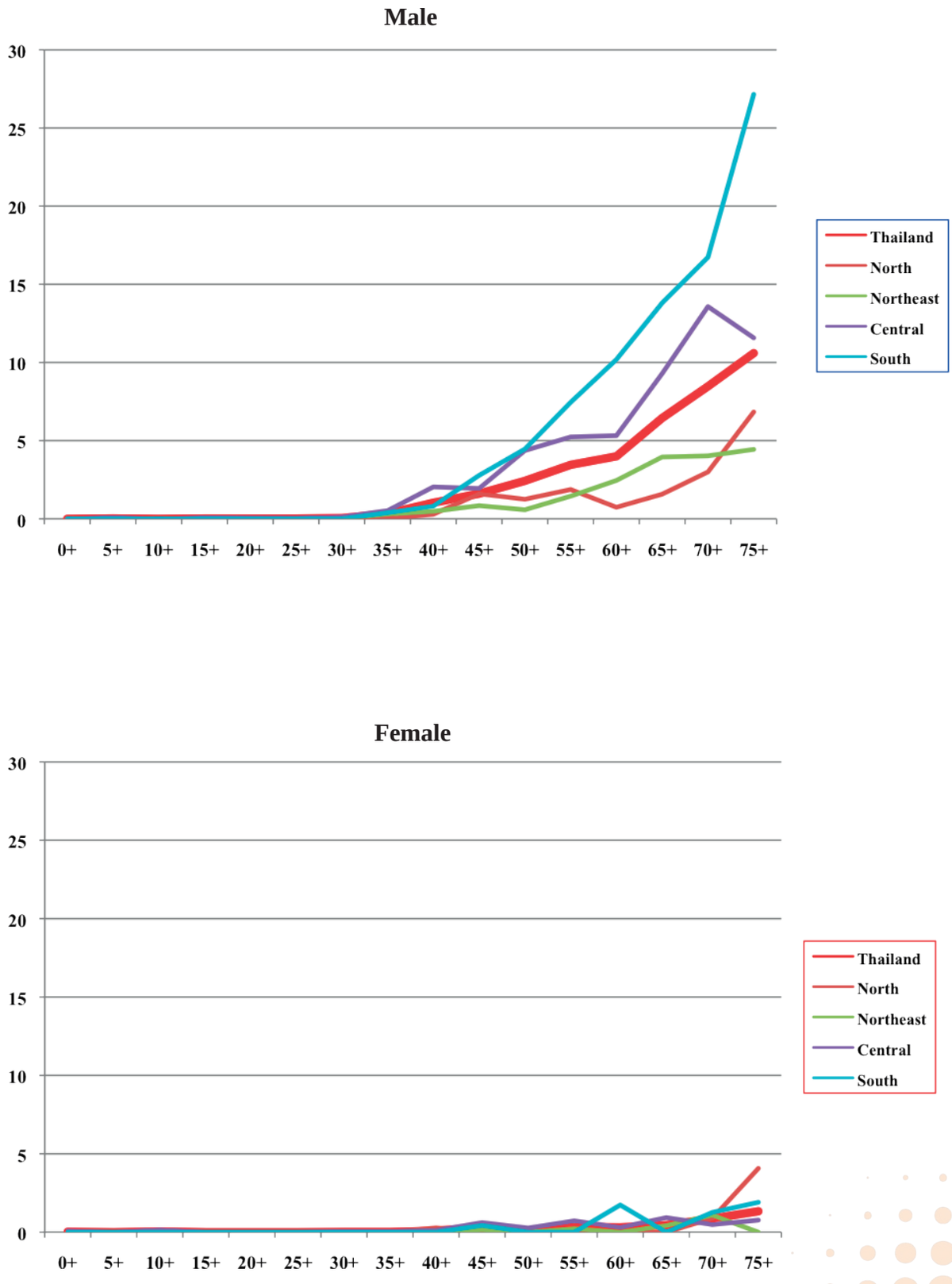


Figure 2.5.2 Age-specific incidence rates of hypopharynx cancer, 2008



Esophagus

Figure 2.6.1 Esophagus cancer in different regions, 2008

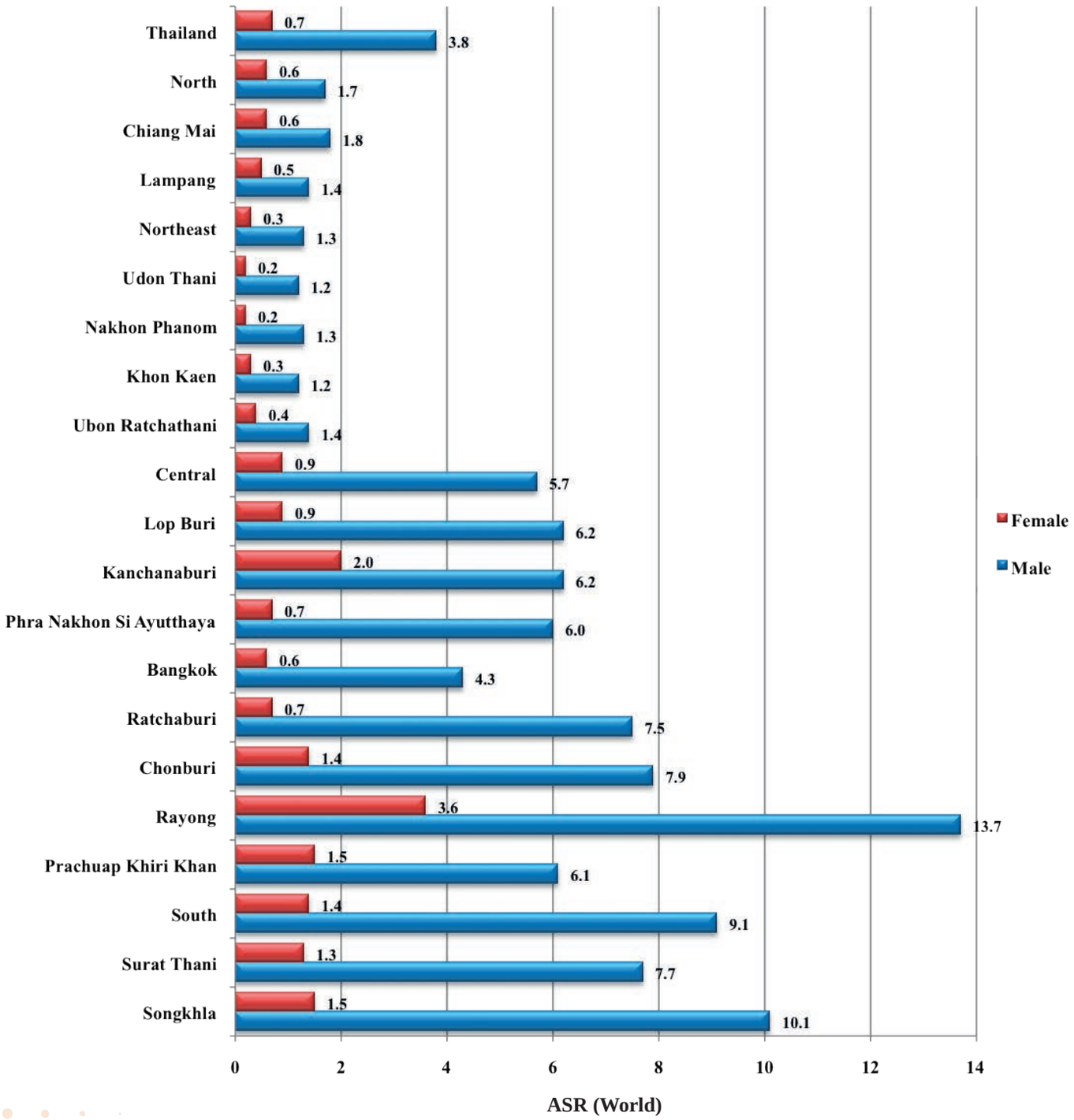
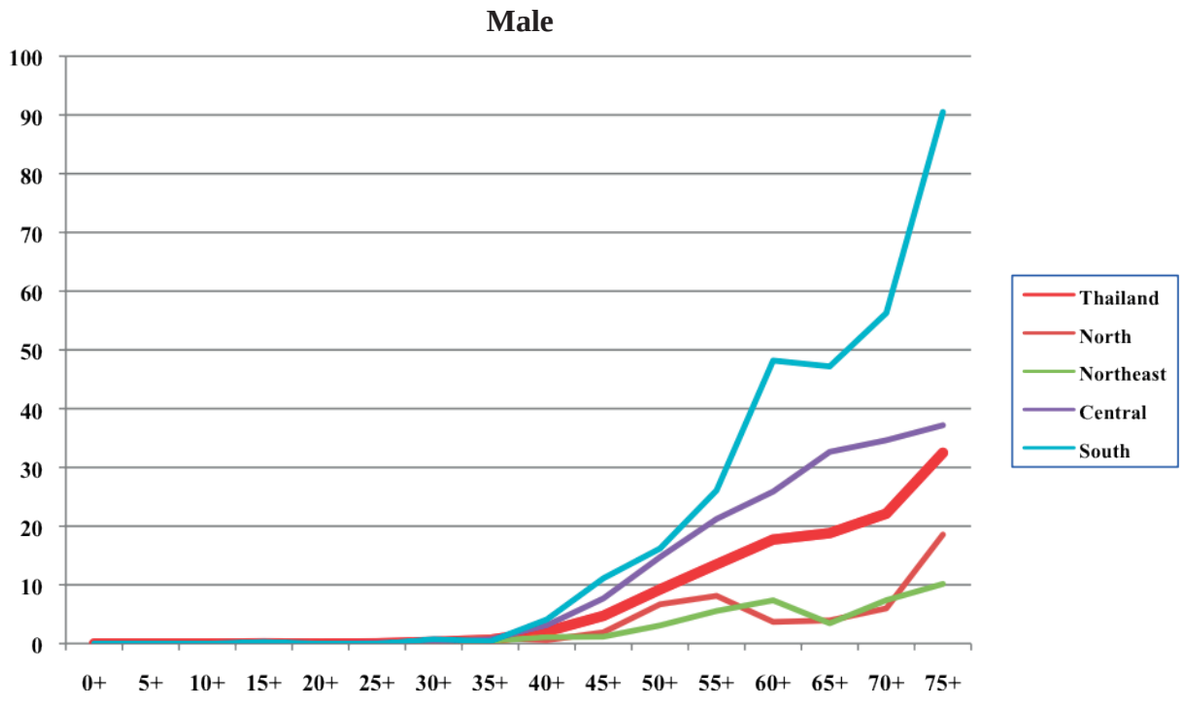


Figure 2.6.2 Age-specific incidence rates of esophagus cancer, 2008



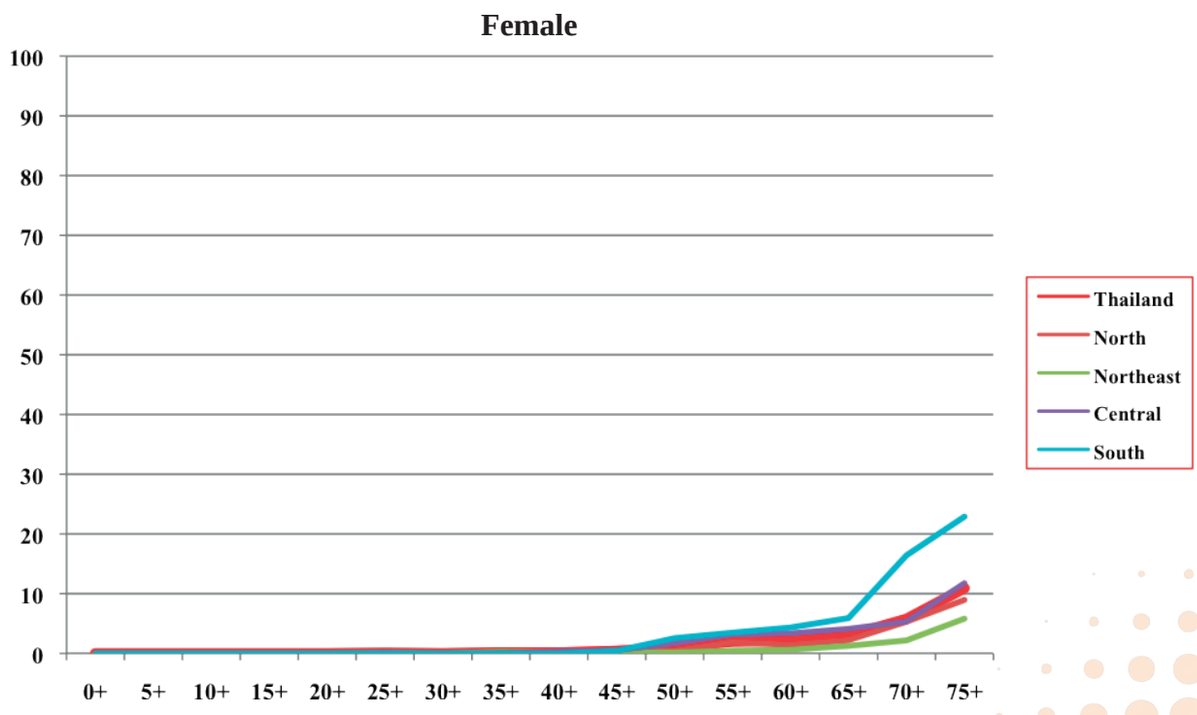
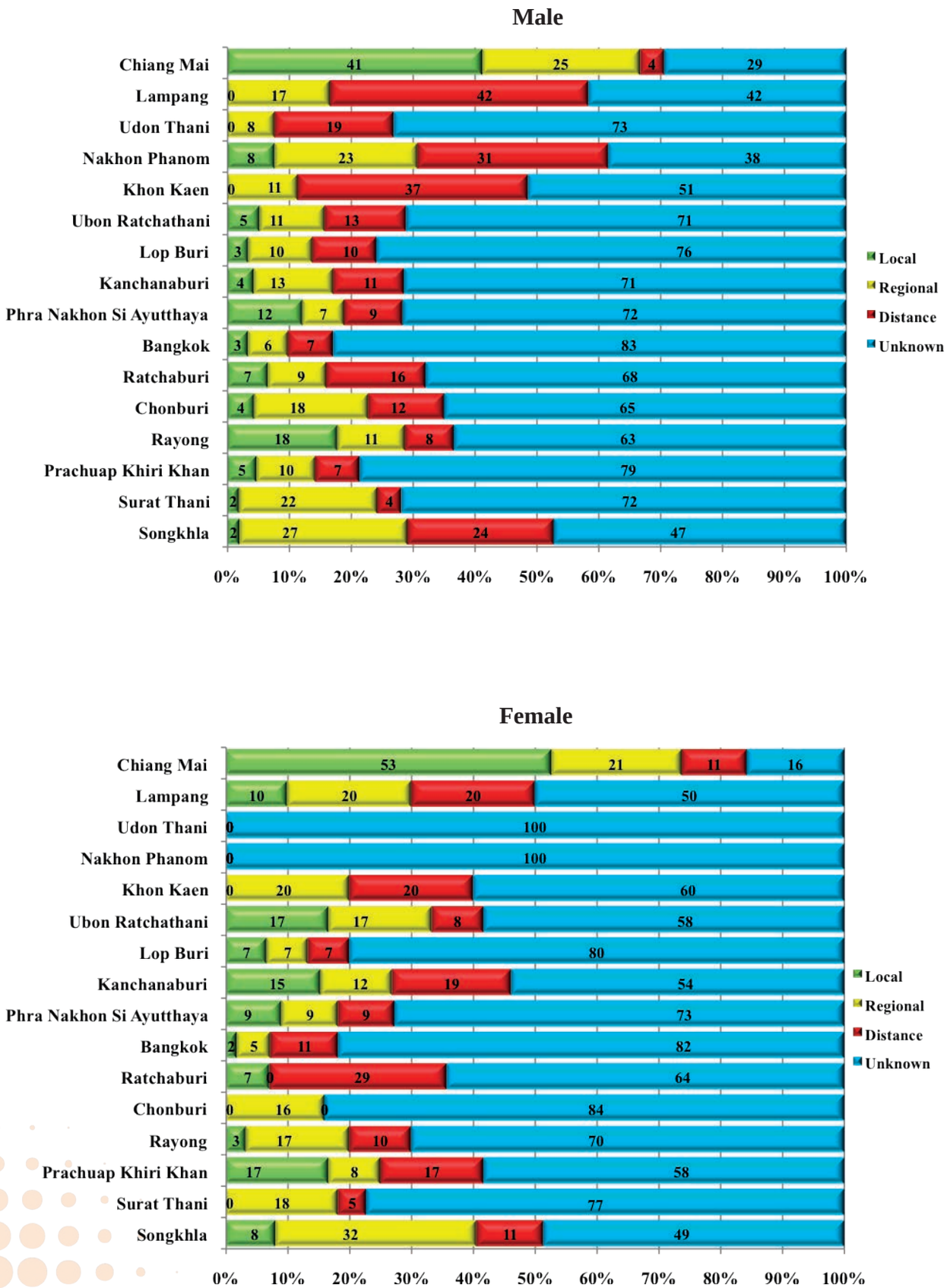


Figure 2.6.3 Stage distribution of esophagus cancer, 2008



Stomach

Figure 2.7.1 Stomach cancer in different regions, 2008

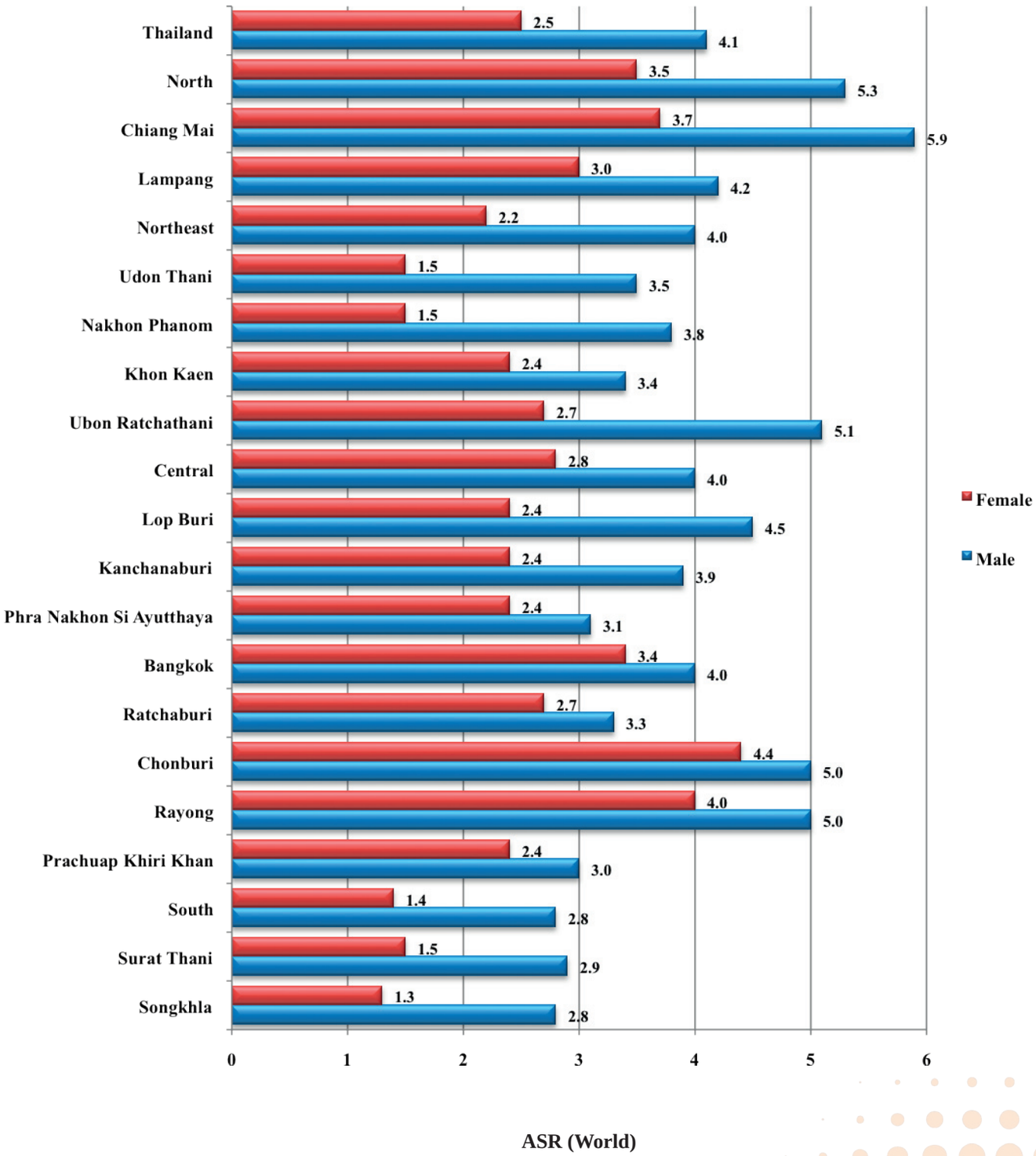


Figure 2.7.2 Age-specific incidence rates of stomach cancer, 2008

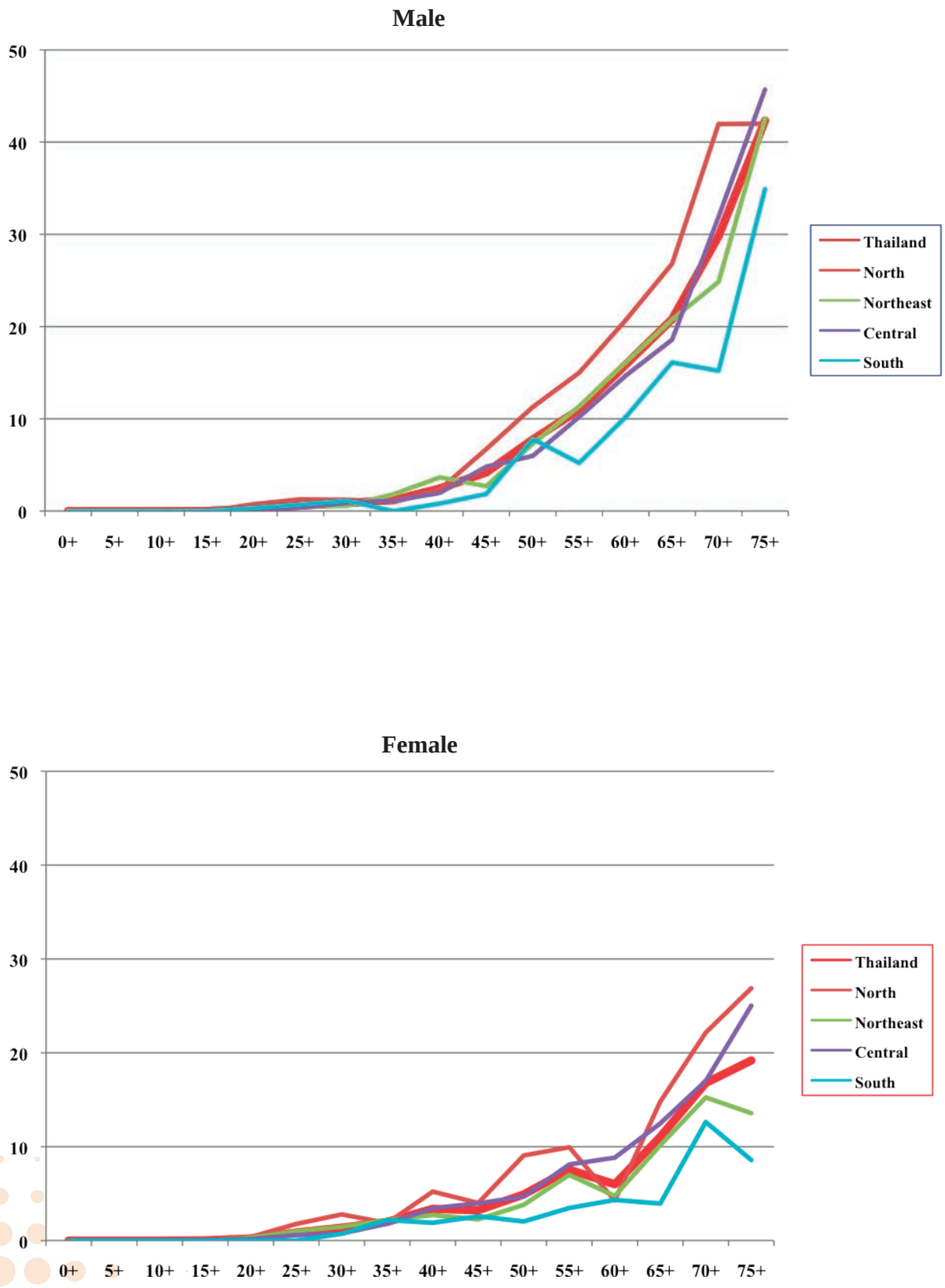
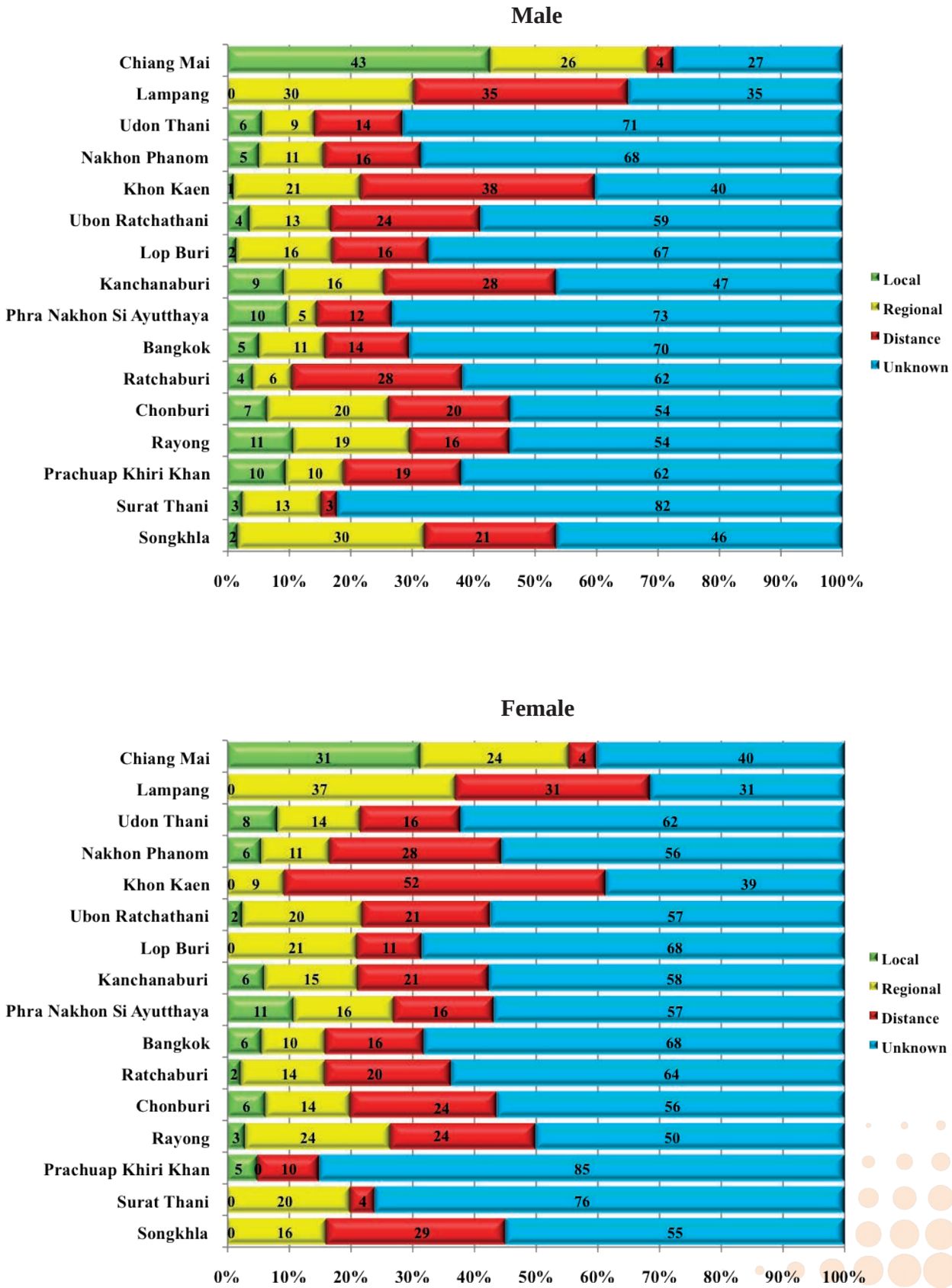


Figure 2.7.3 Stage distribution of stomach cancer, 2008



Colon and rectum

Figure 2.8.1 Colon and rectum cancer in different regions, 2008

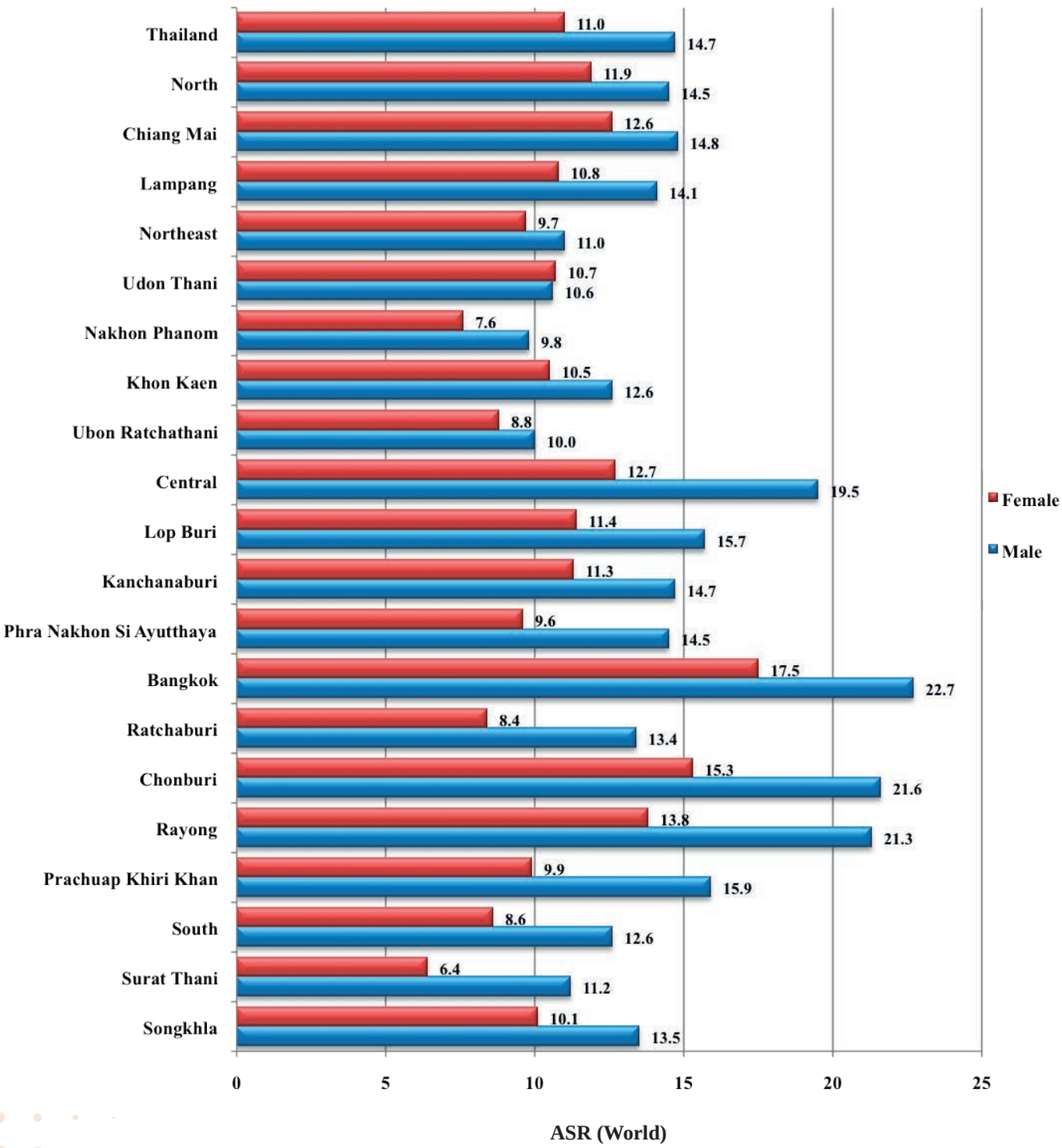


Figure 2.8.2 Age-specific incidence rates of colon and rectum cancer, 2008

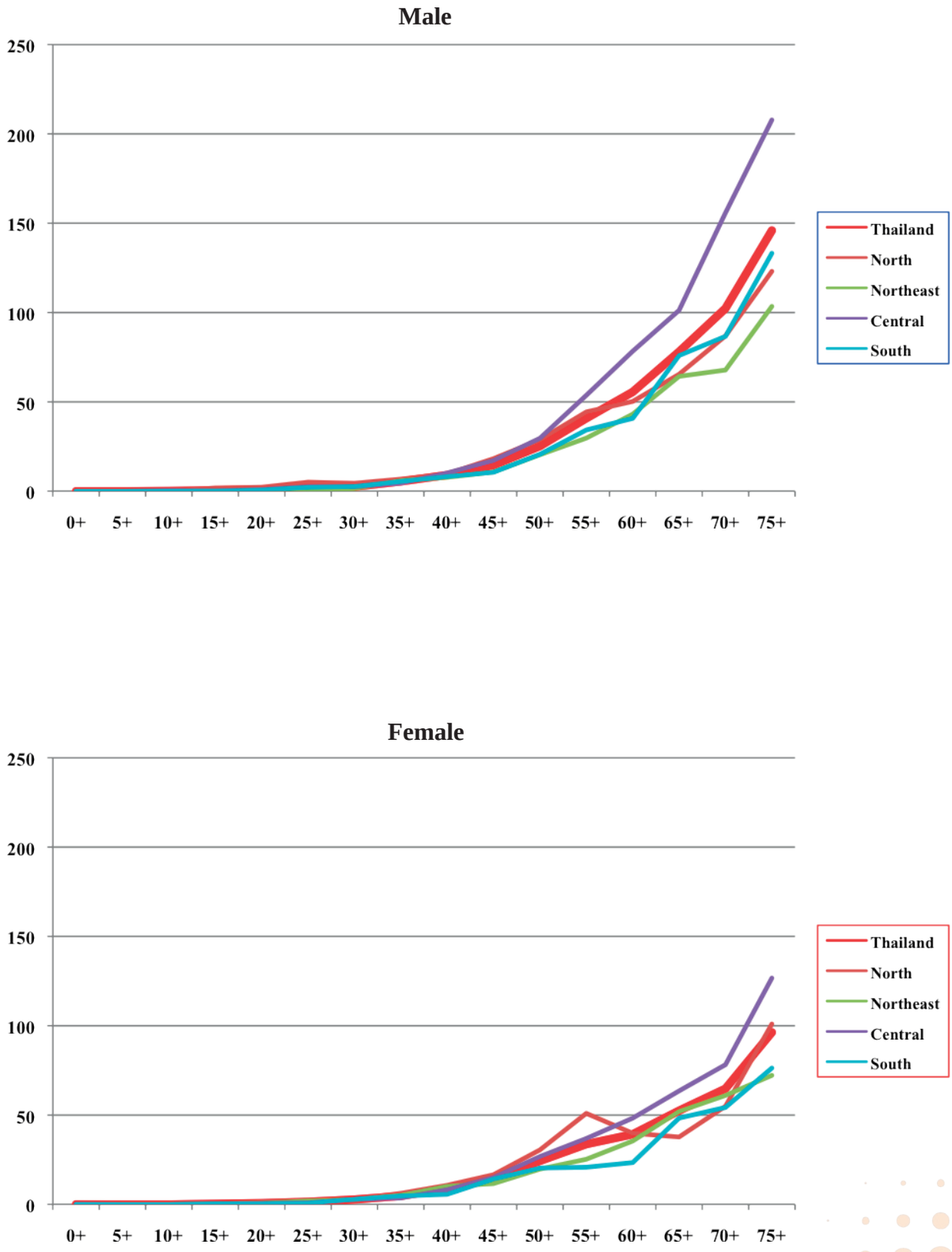
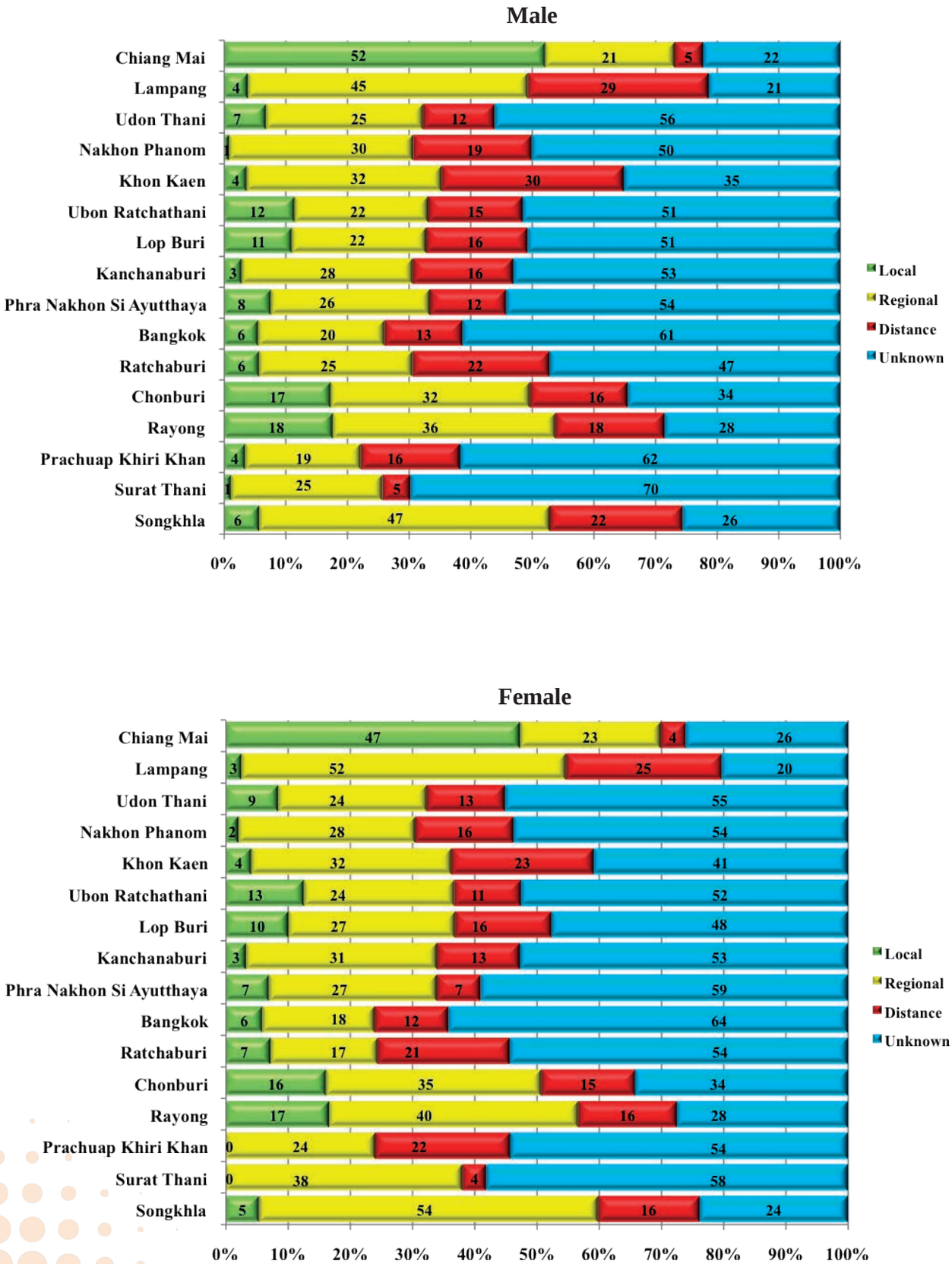


Figure 2.8.3 Stage distribution of colon and rectum cancer, 2008



Liver and bile duct

Figure 2.9.1 Liver and bile duct cancer in different regions, 2008

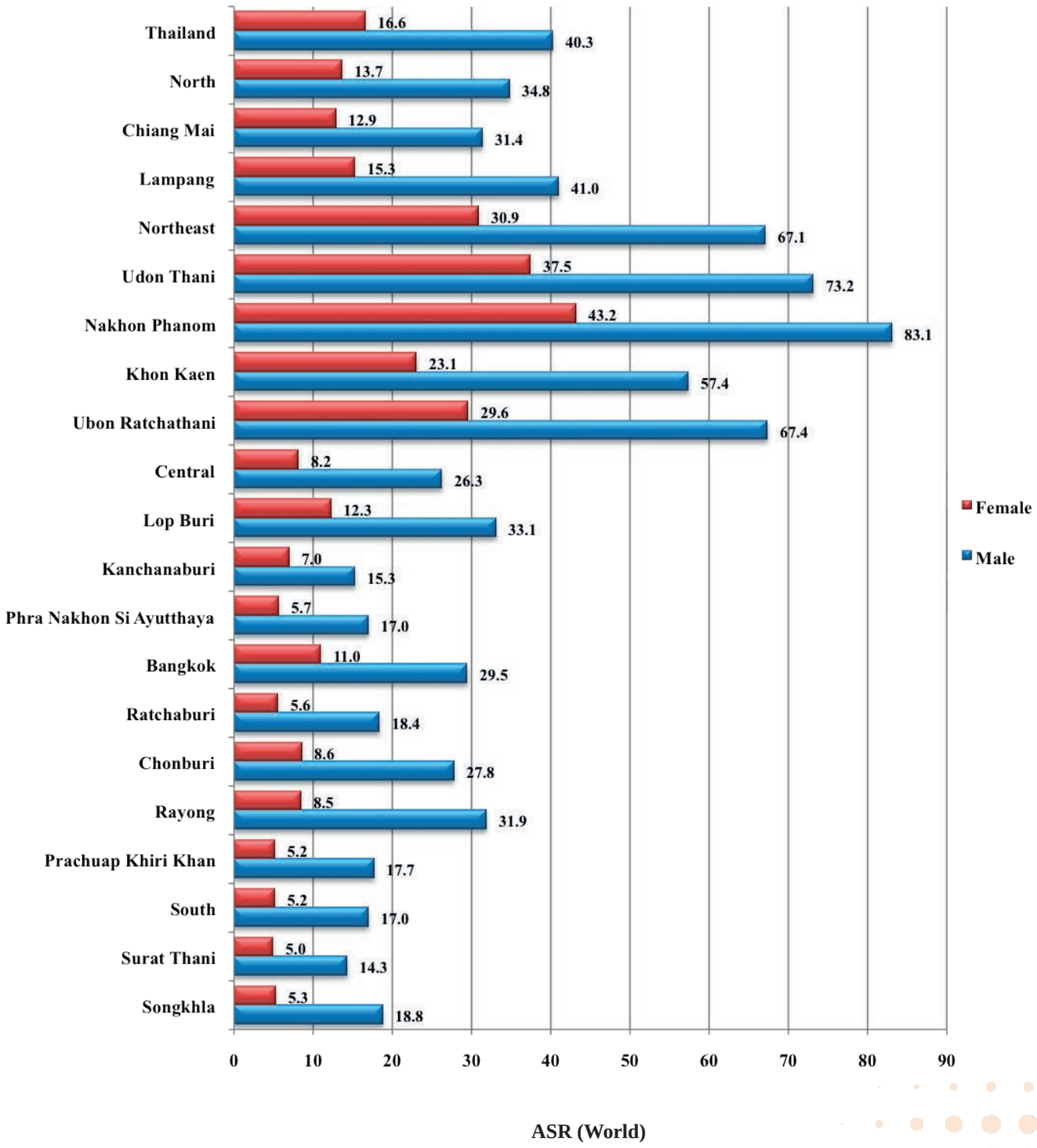
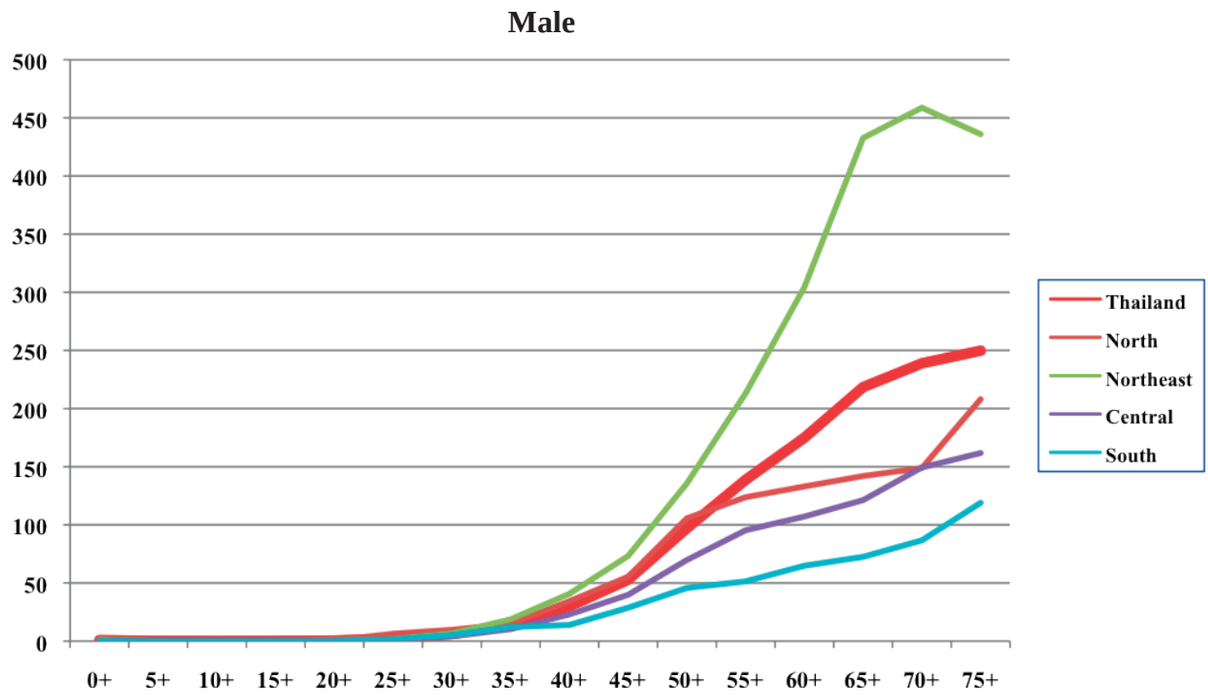


Figure 2.9.2 Age-specific incidence rates of liver and bile duct cancer, 2008



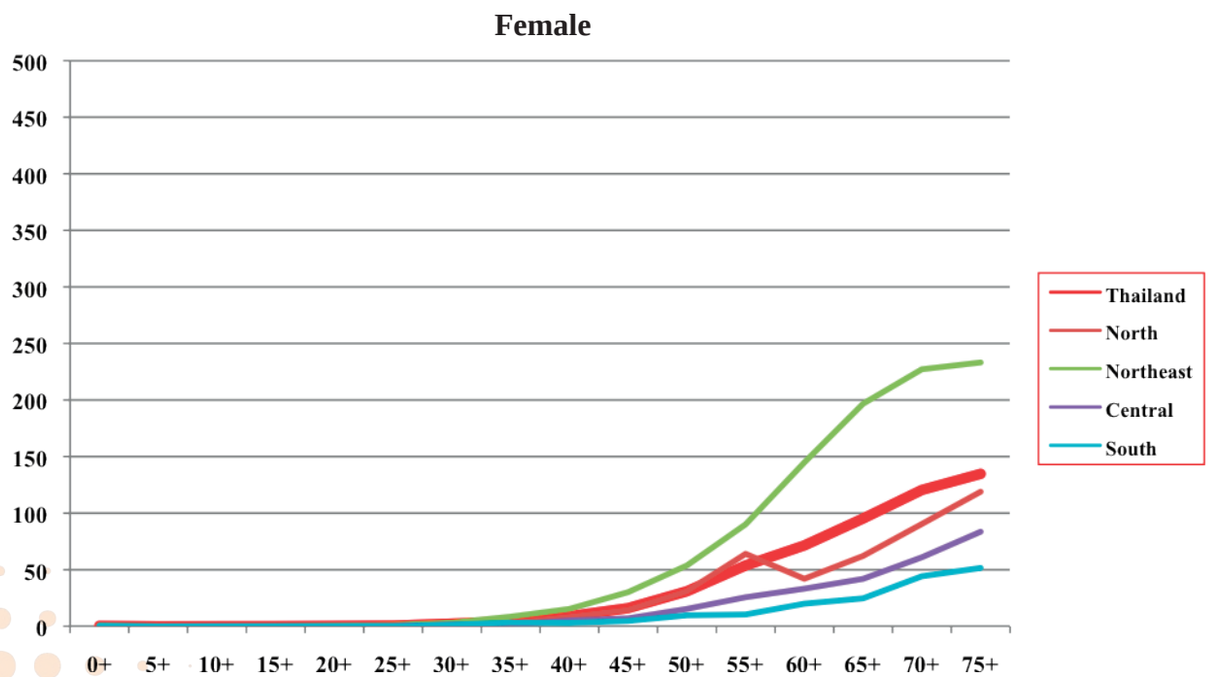
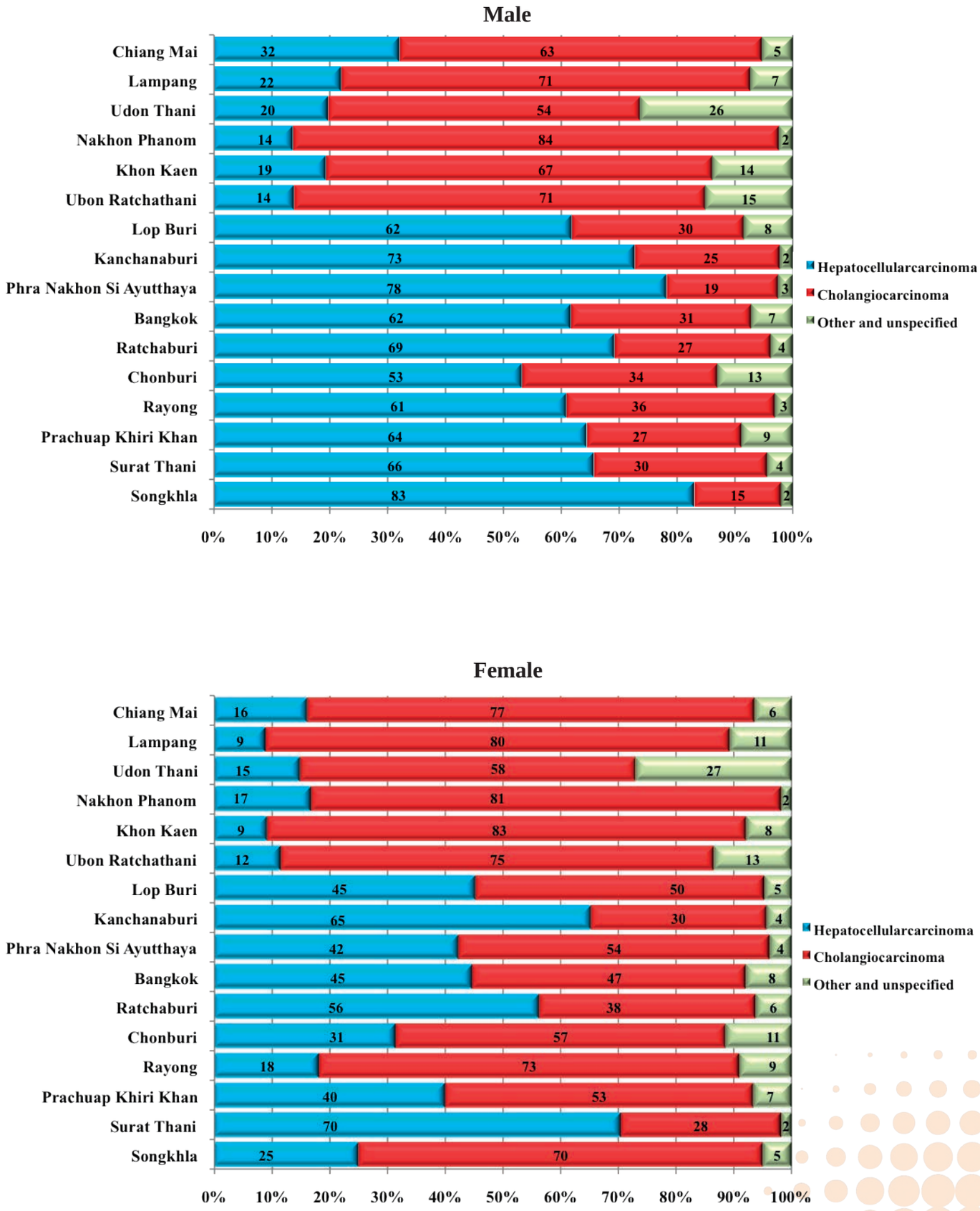


Figure 2.9.3 Histological types of liver and bile duct cancer, 2008



Larynx

Figure 2.10.1 Larynx cancer in different regions, 2008

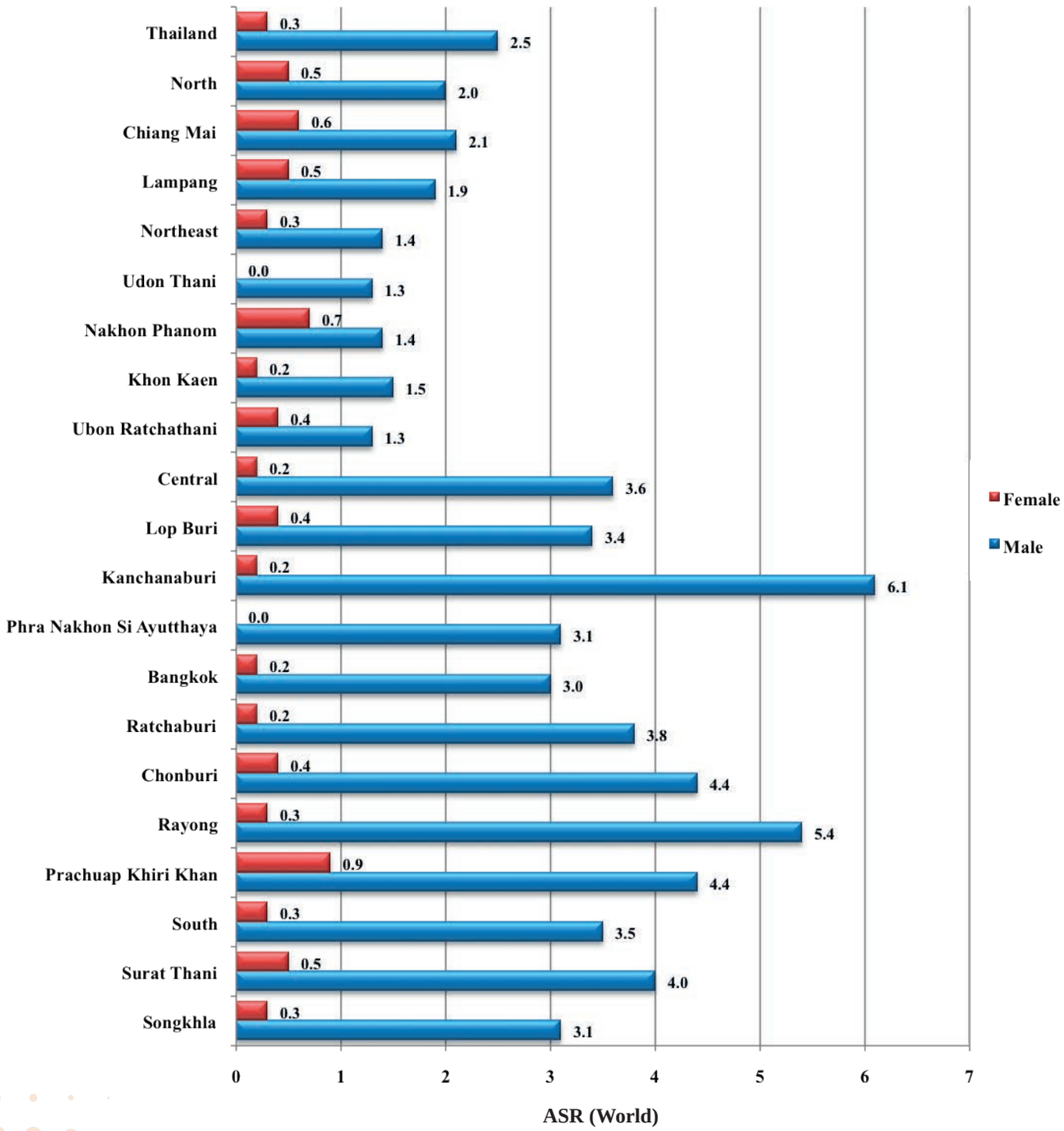
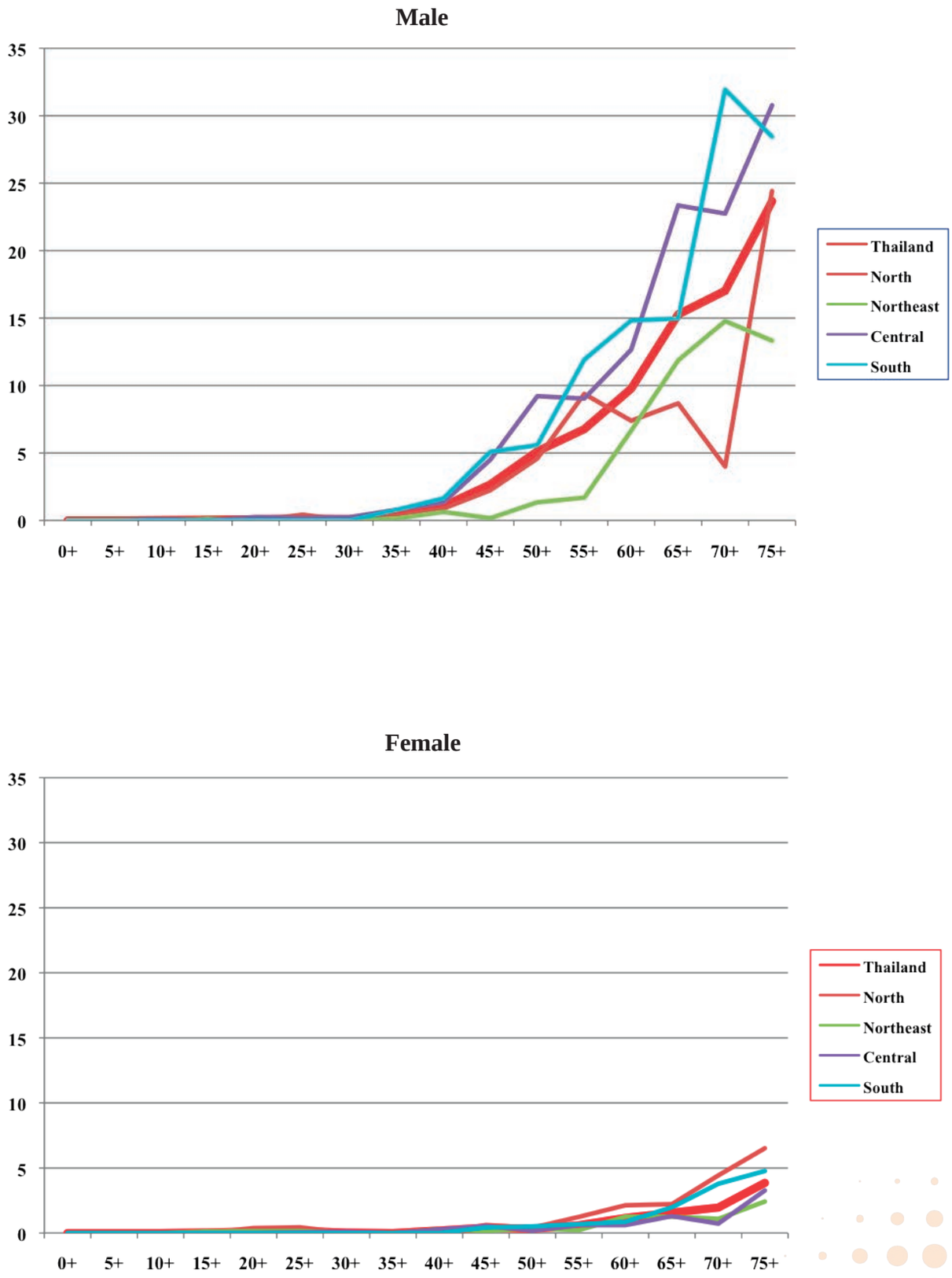


Figure 2.10.2 Age-specific incidence rates of larynx cancer, 2008



Trachea, bronchus and lung

Figure 2.11.1 Trachea, bronchus and lung cancer in different regions, 2008

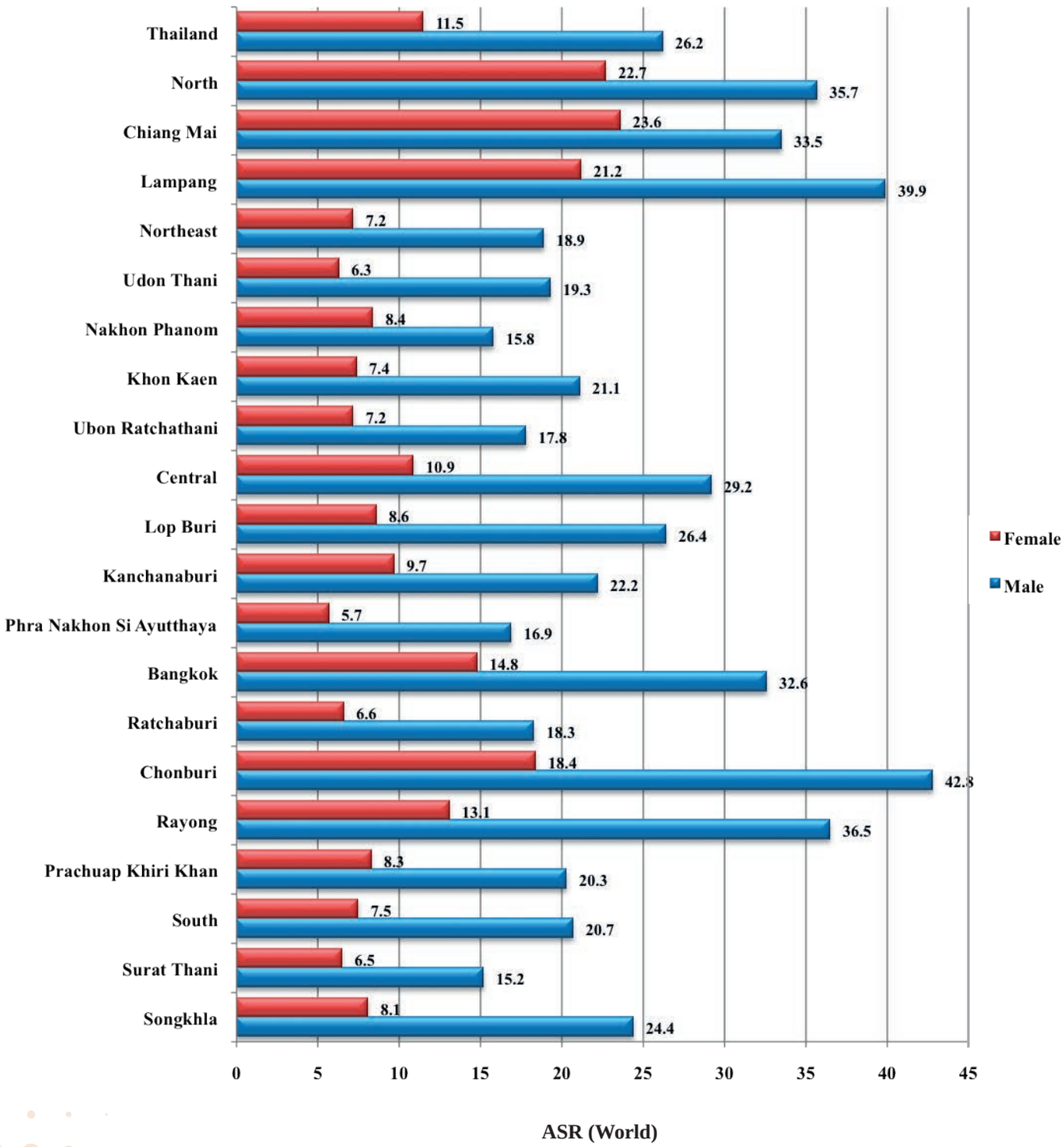


Figure 2.11.2 Age-specific incidence rates of trachea, bronchus and lung cancer, 2008

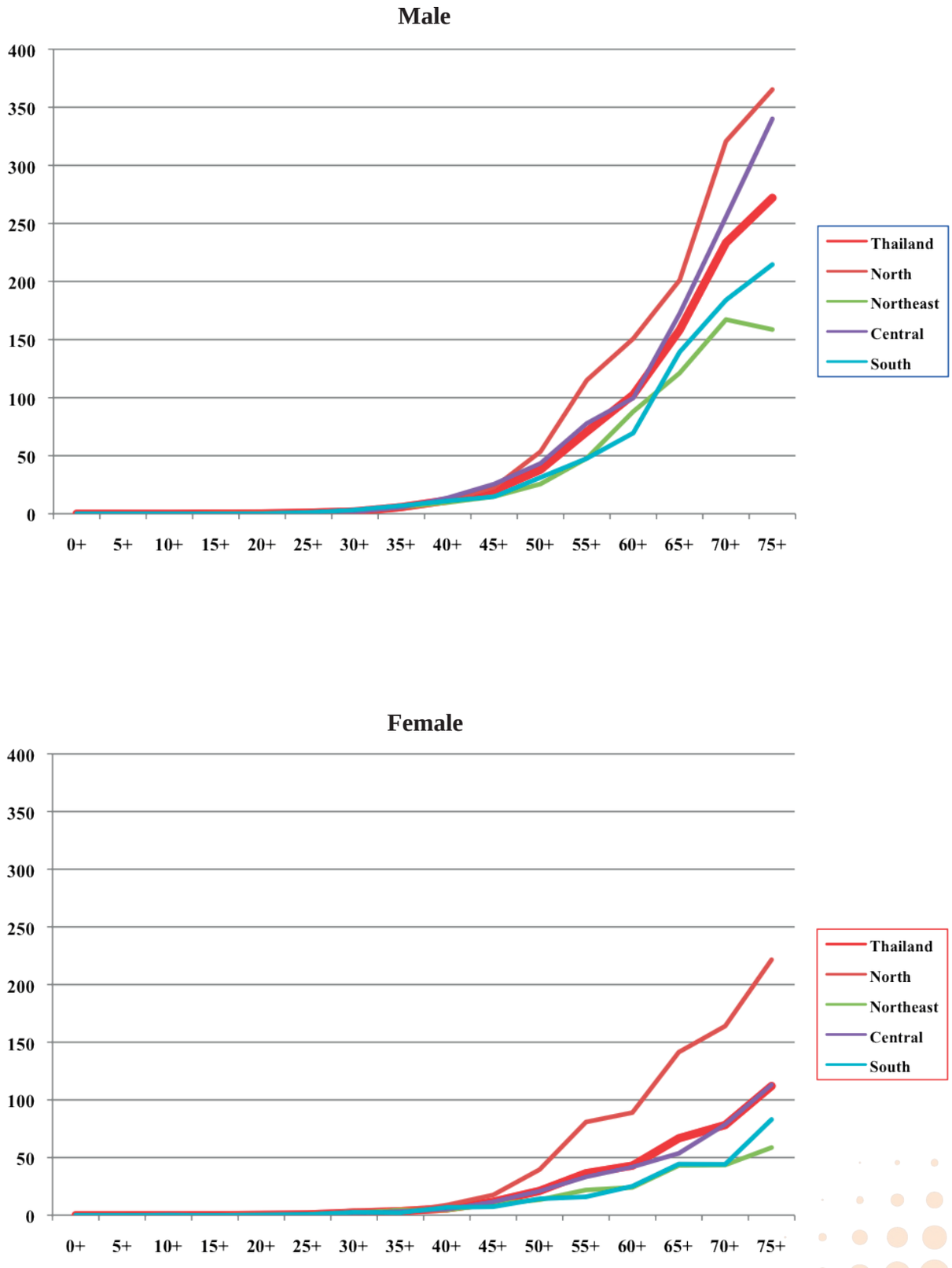


Figure 2.11.3 Histological types of trachea, bronchus and lung cancer, 2008

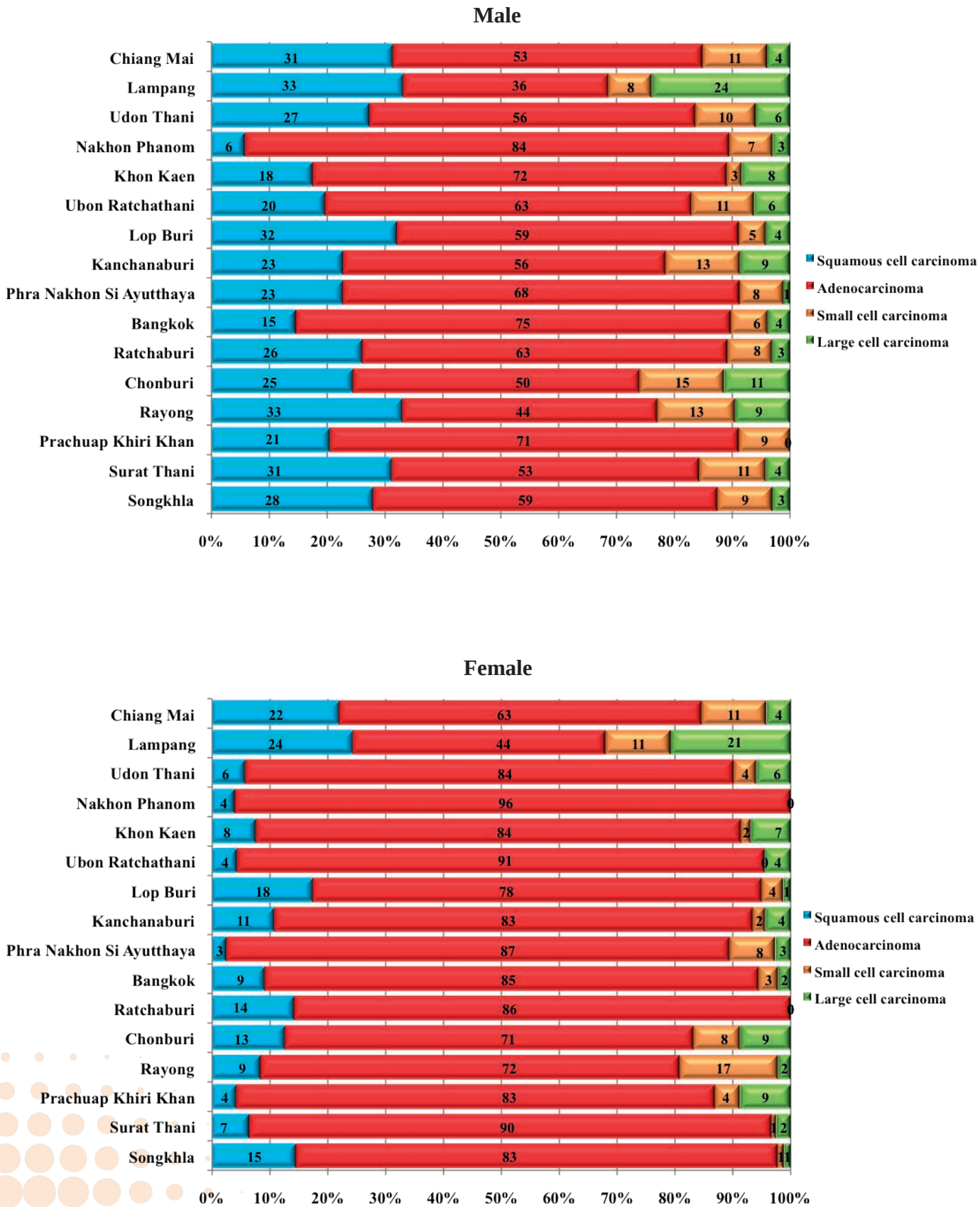
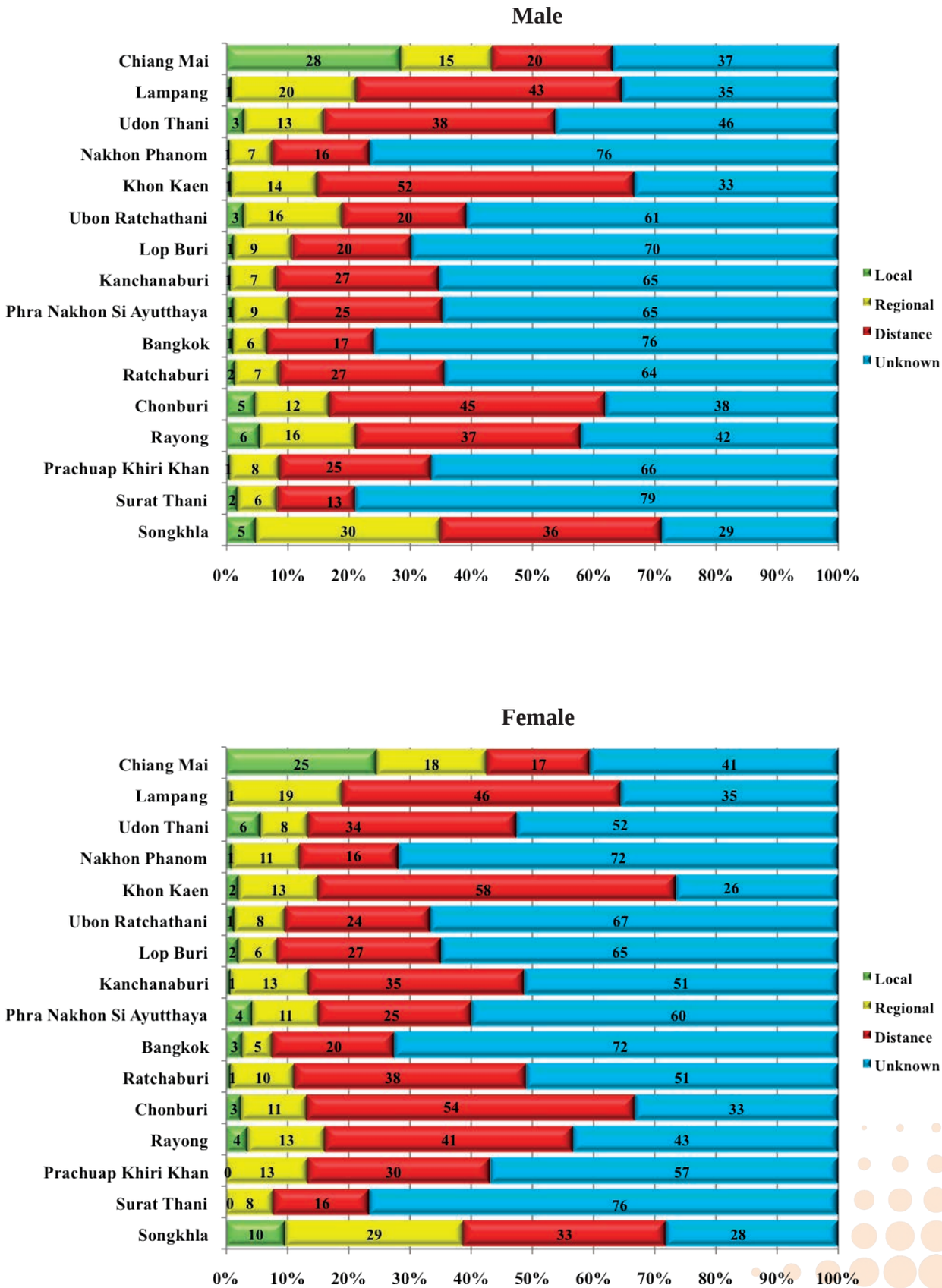


Figure 2.11.4 Stage distribution of trachea, bronchus and lung cancer, 2008



Skin

Figure 2.12.1 Skin cancer in different regions, 2008

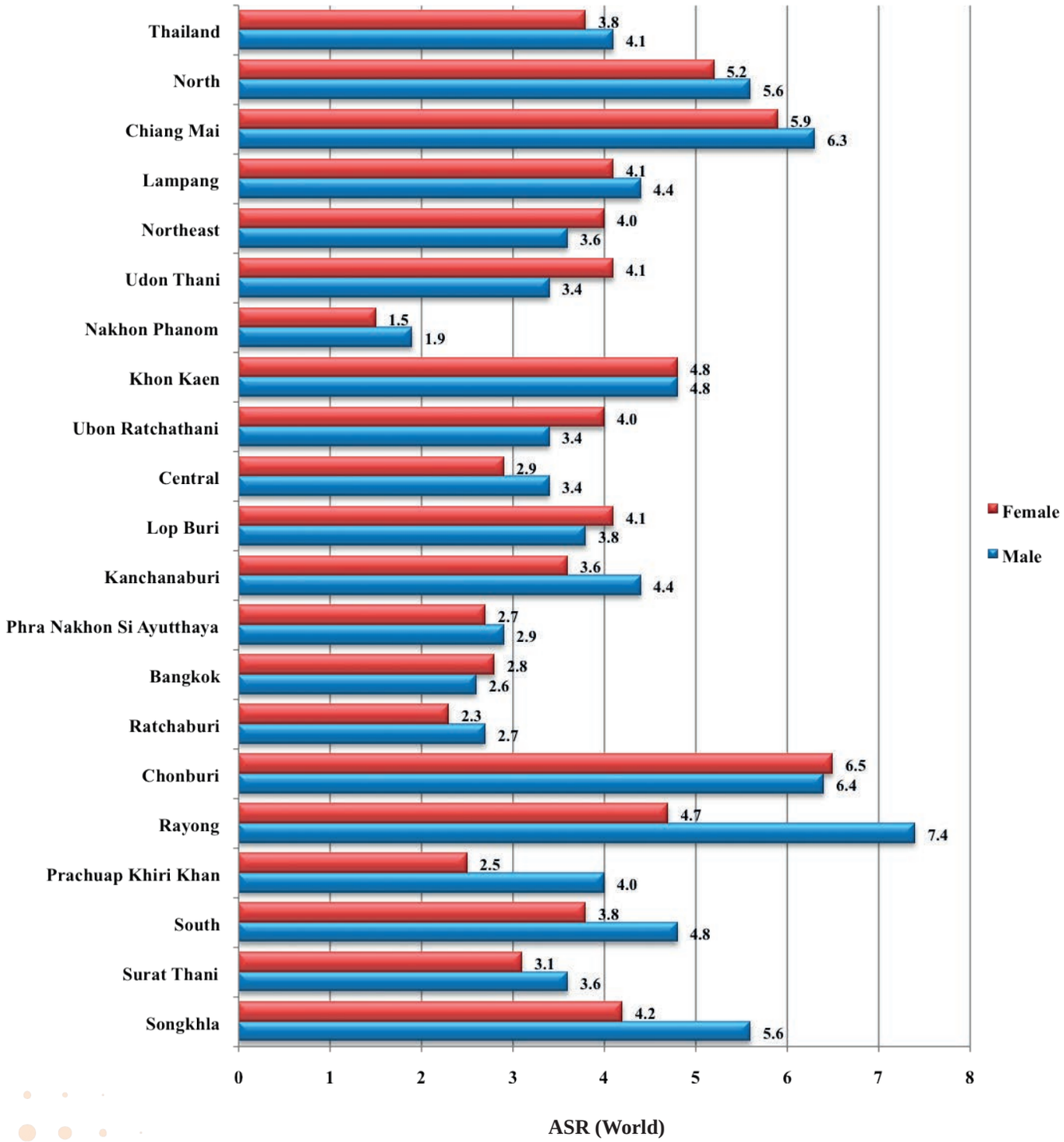


Figure 2.12.2 Age-specific incidence rates of skin cancer, 2008

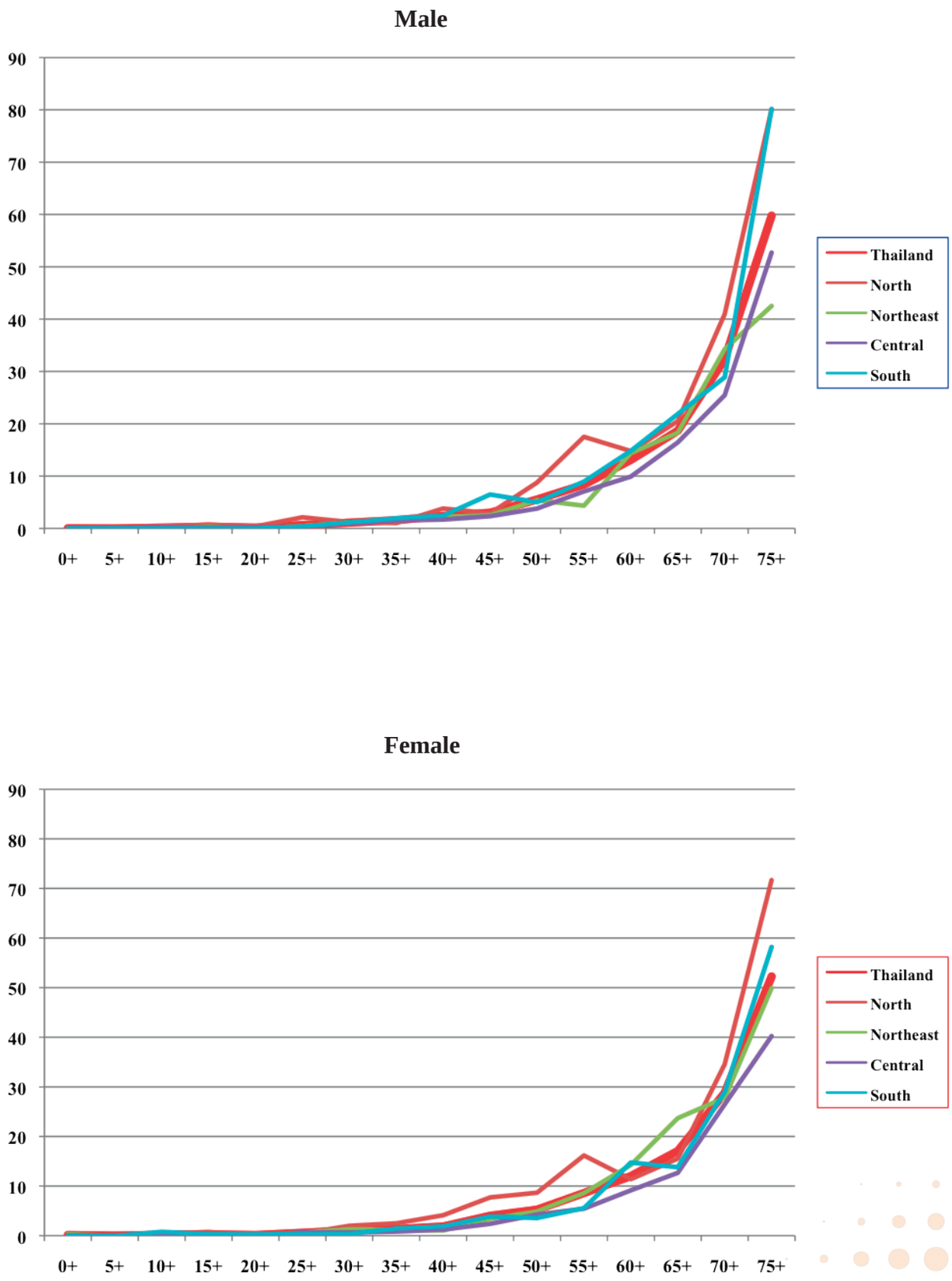
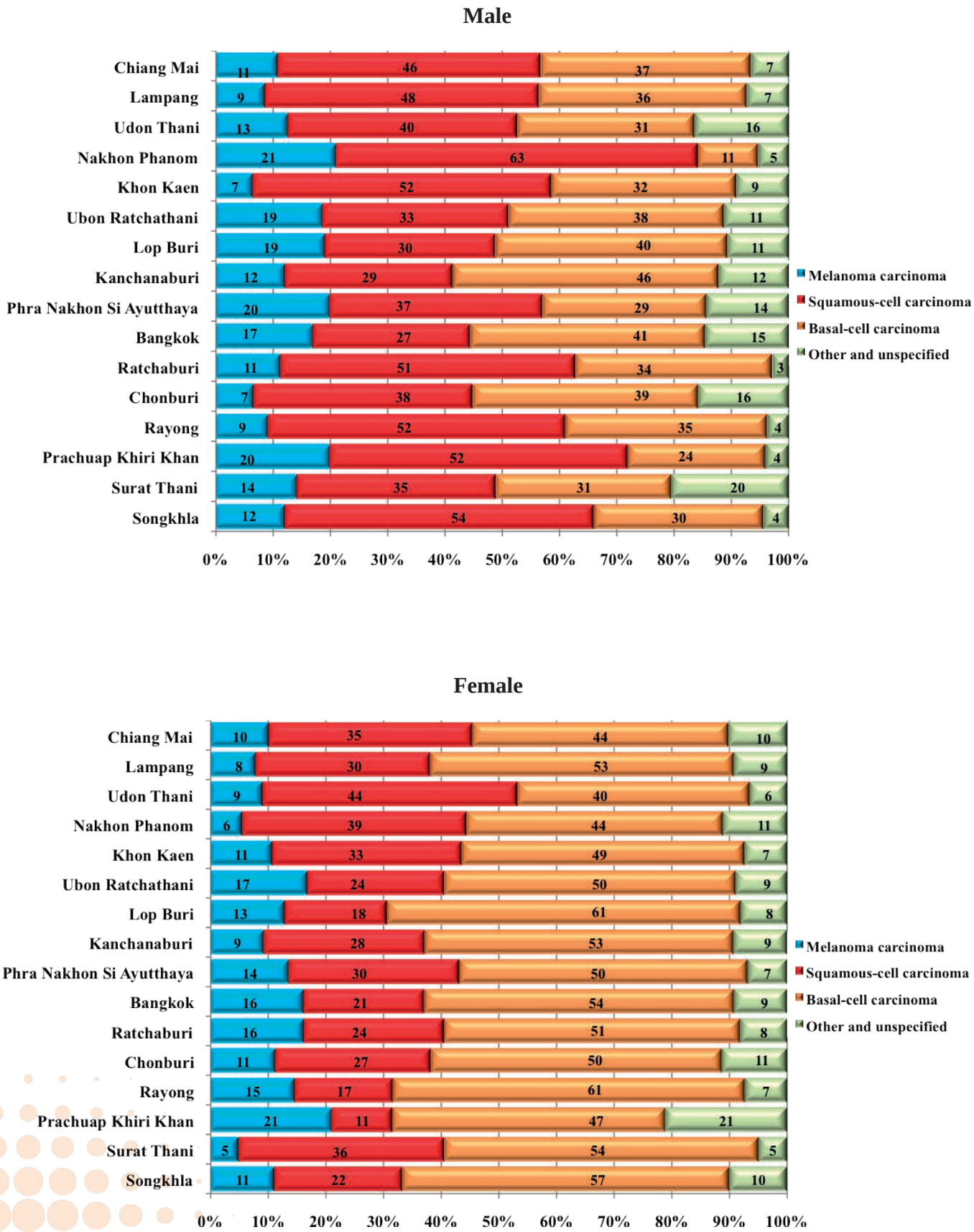


Figure 2.12.3 Histological types of skin cancer, 2008



Breast

Figure 2.13.1 Breast cancer in different regions, 2008

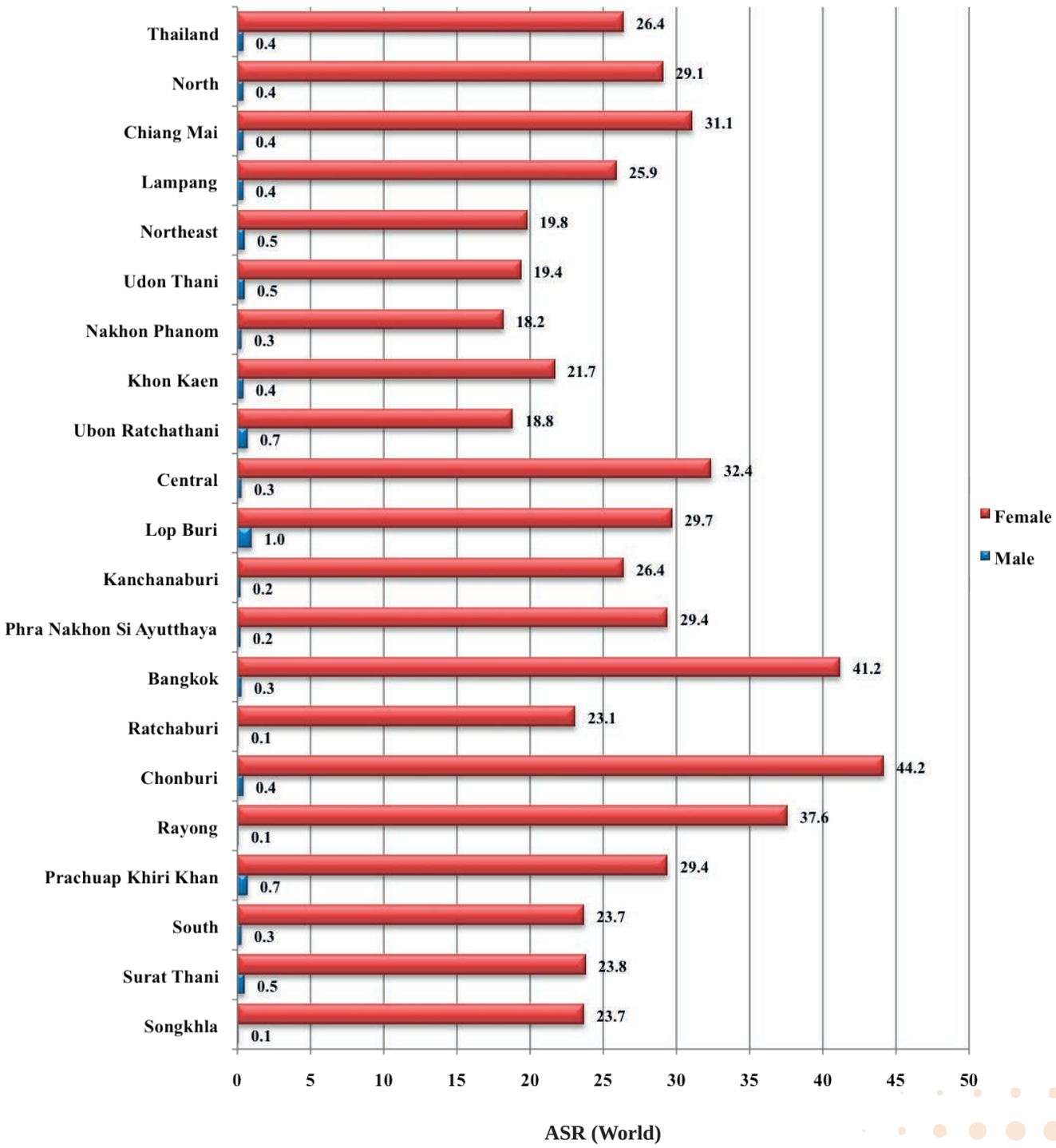


Figure 2.13.2 Age-specific incidence rates of breast cancer, 2008

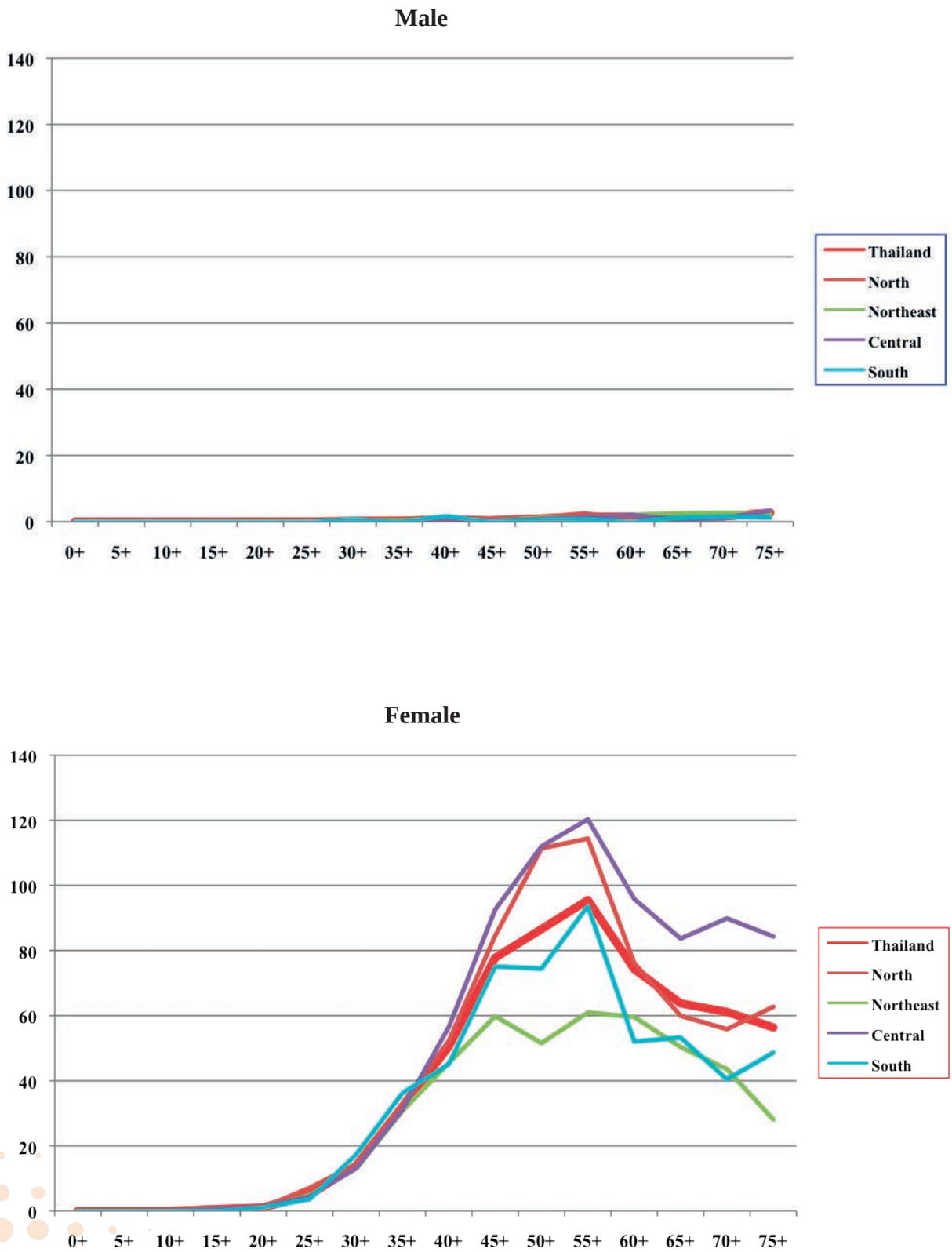


Figure 2.13.3 Histological types of breast cancer, 2008

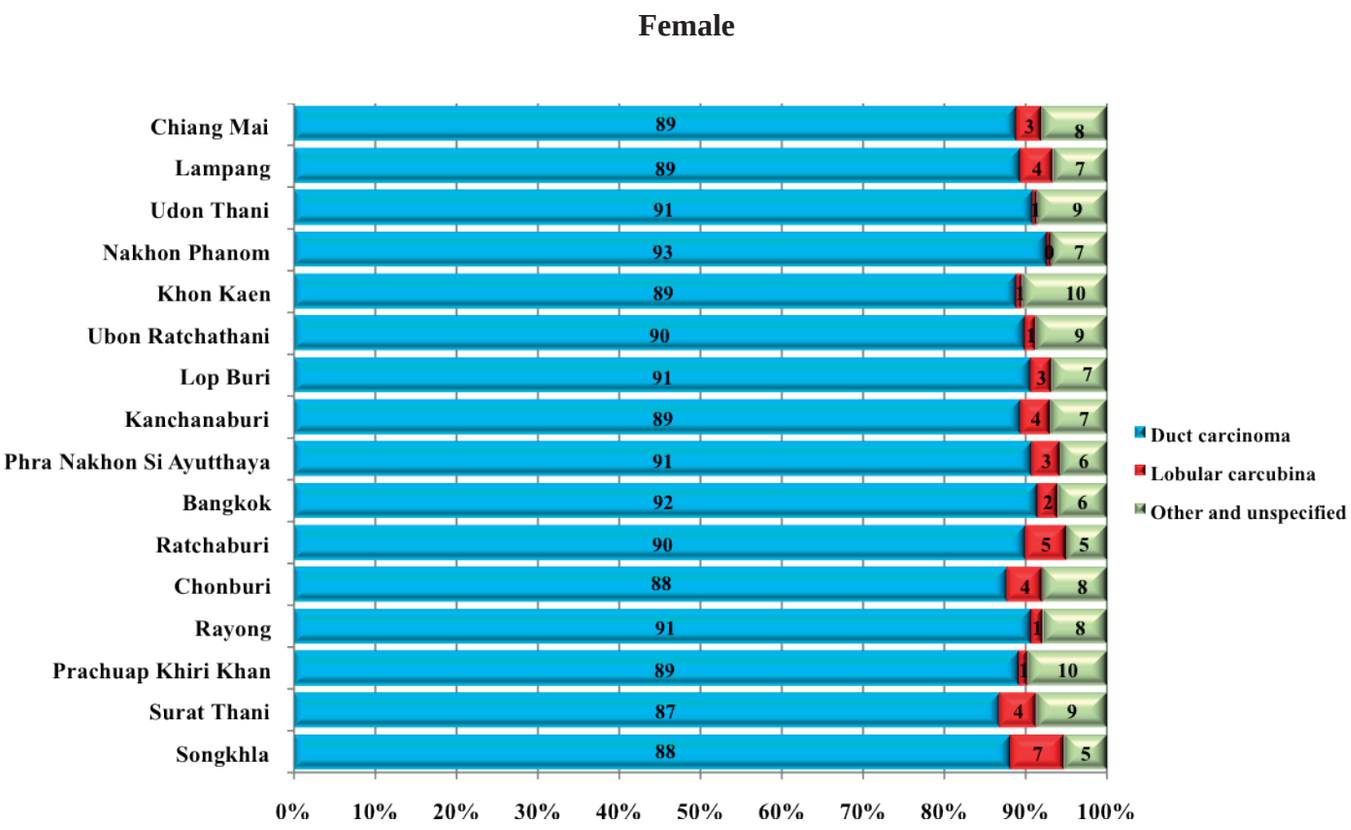
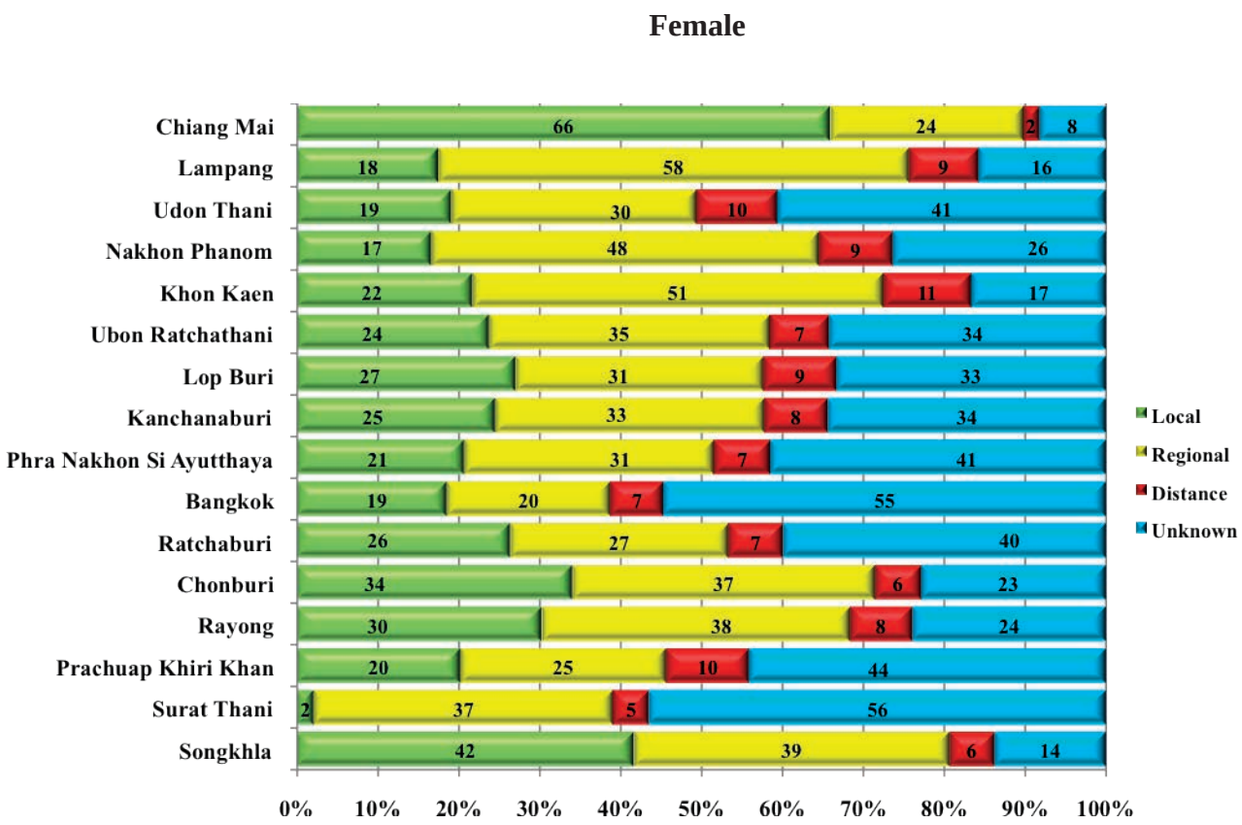


Figure 2.13.4 Stage distribution of breast cancer, 2008



Cervix uteri

Figure 2.14.1 Cervical cancer in different regions, 2008

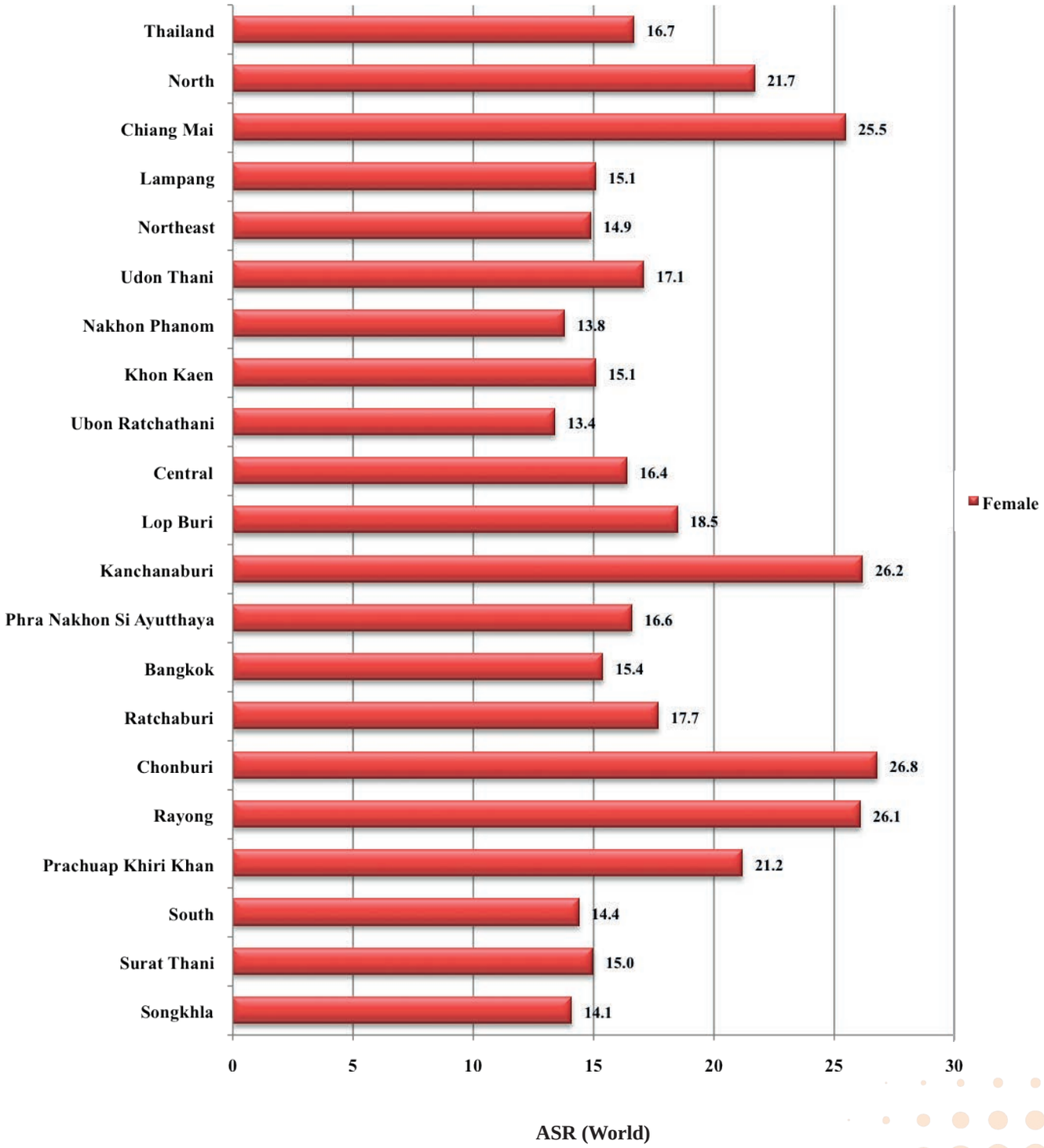


Figure 2.14.2 Age-specific incidence rates of cervical cancer, 2008

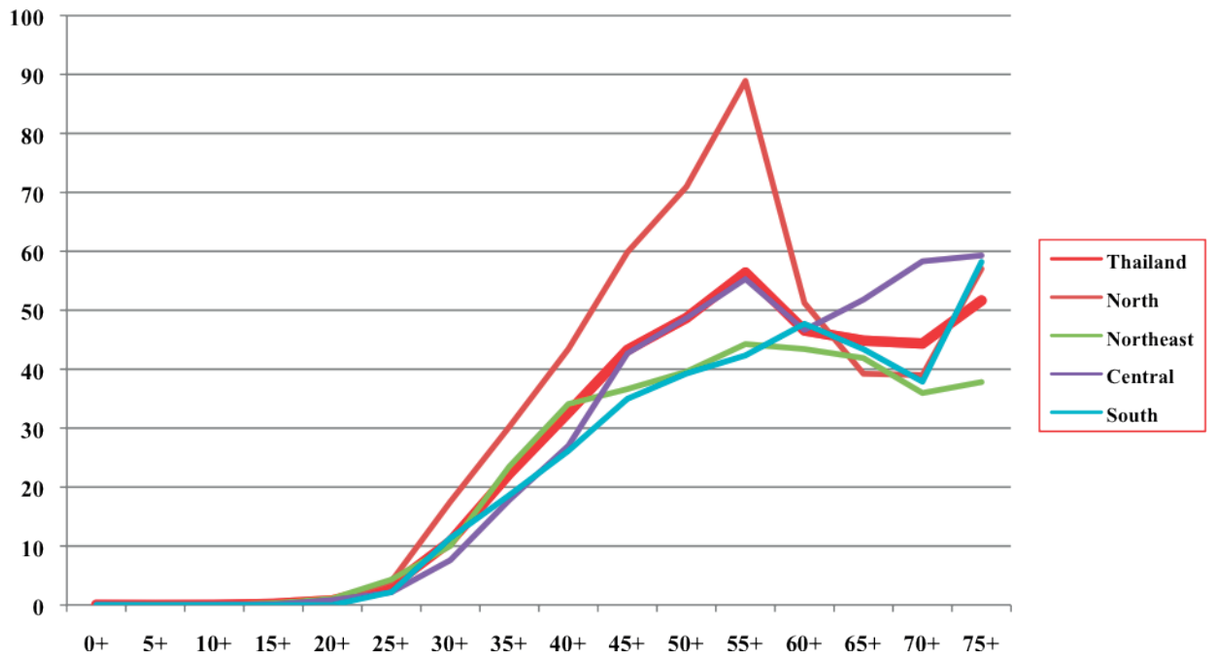


Figure 2.14.3 Cervical cancer : percentage distribution of histological types among microscopically verified, 2008

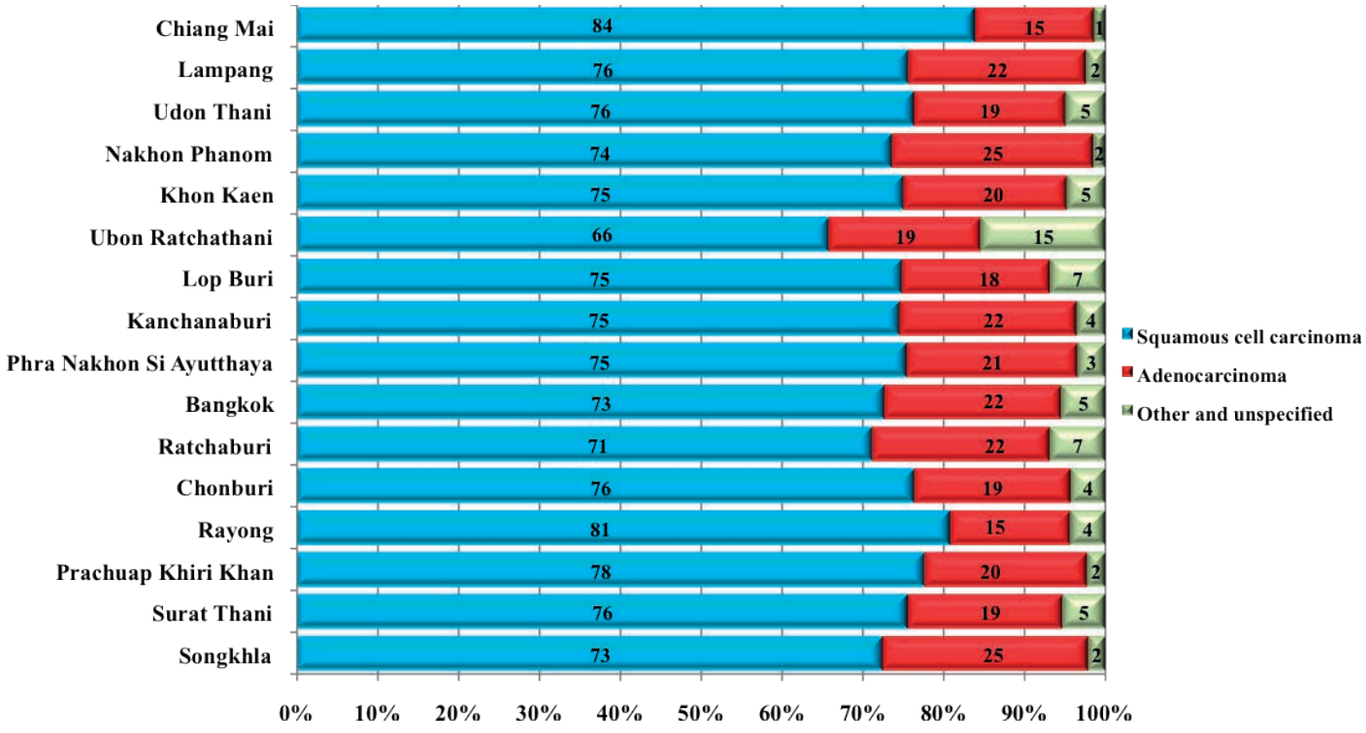
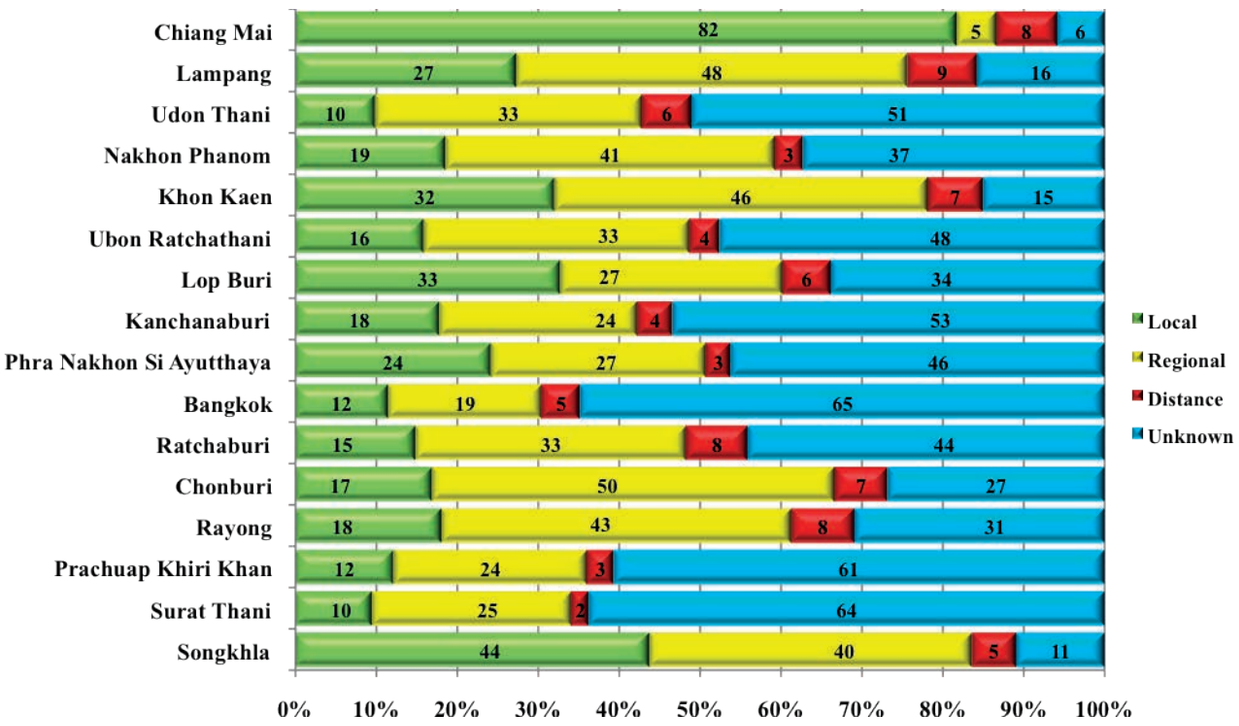


Figure 2.14.4 Stage distribution of cervical cancer, 2008



Corpus uteri

Figure 2.15.1 Corpus uteri cancer in different regions, 2008

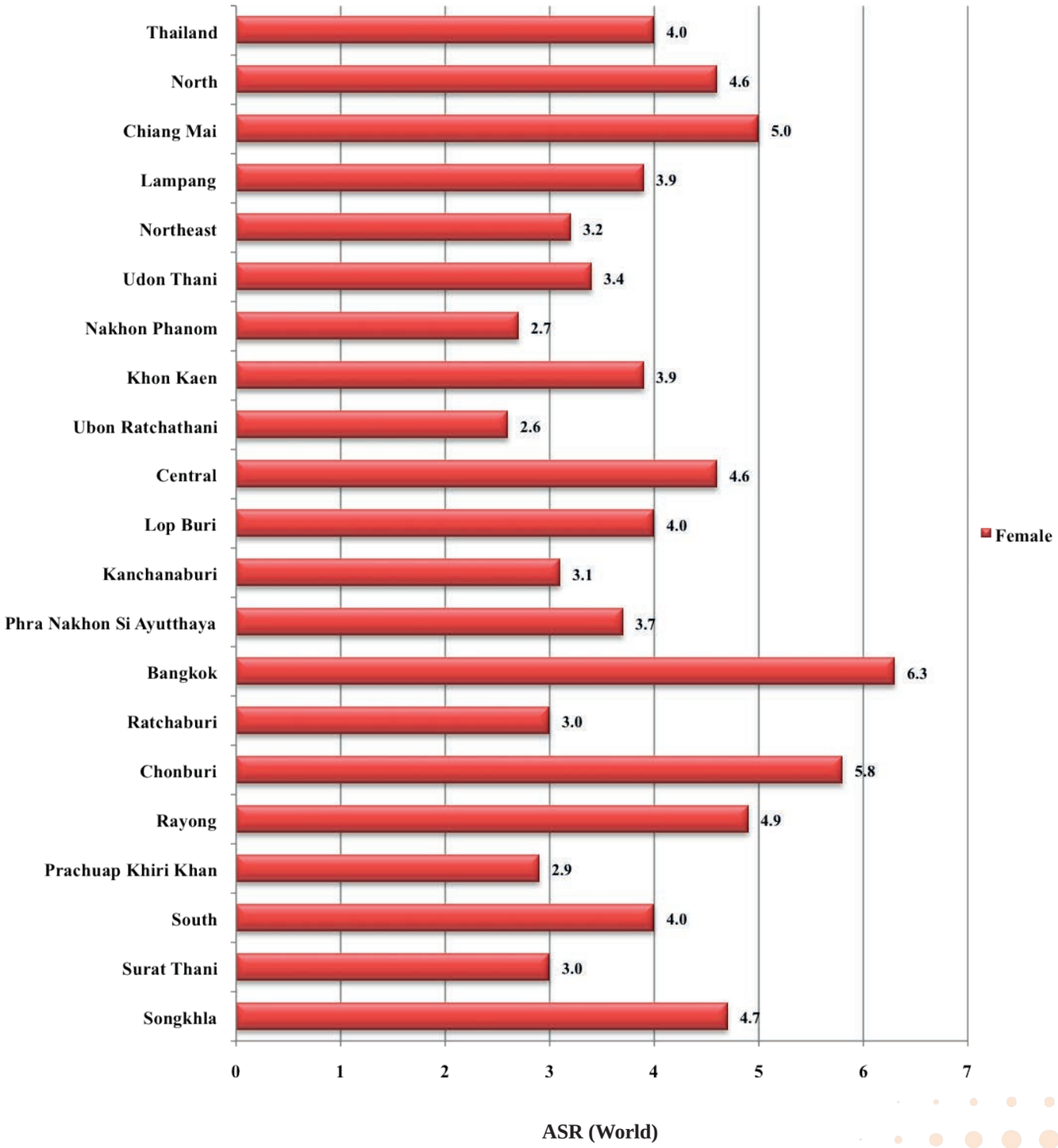


Figure 2.15.2 Age-specific incidence rates of corpus uteri cancer, 2008

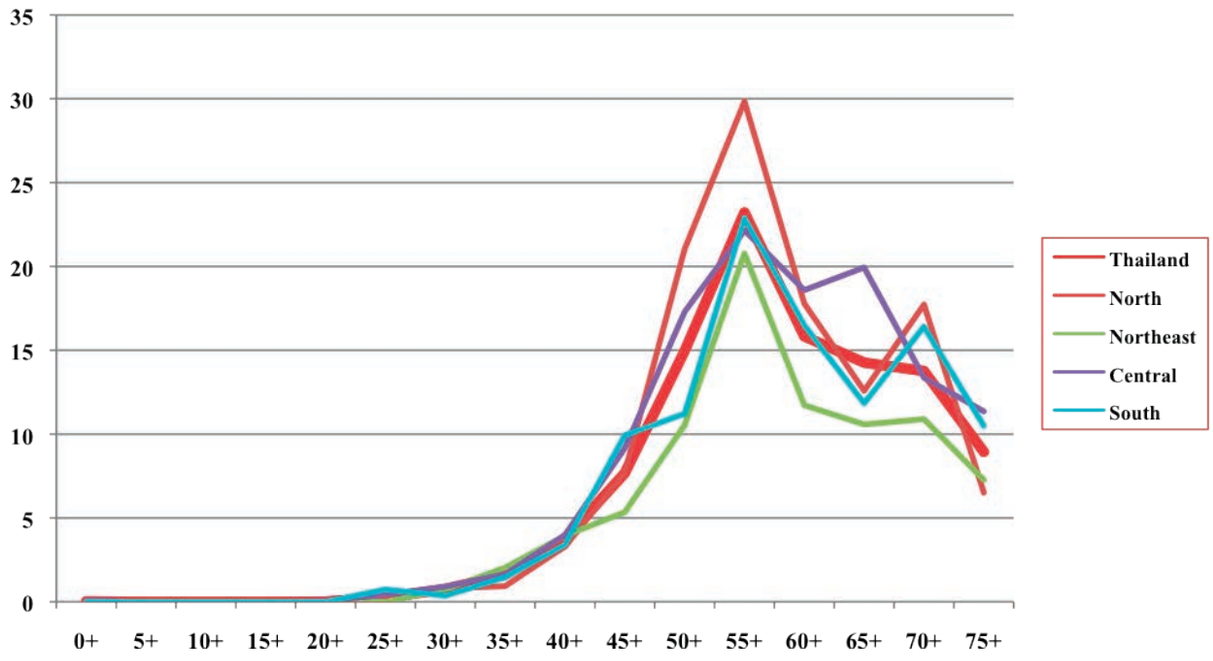
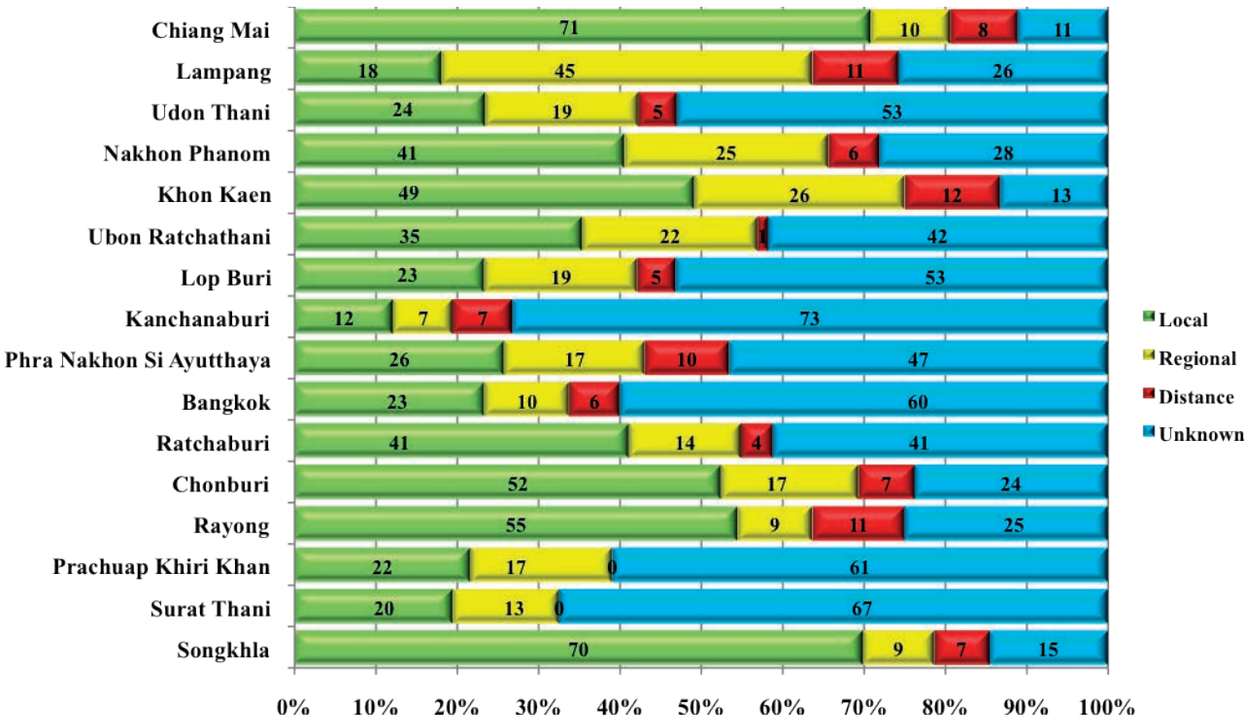


Figure 2.15.3 Stage distribution of corpus uteri cancer, 2008



Ovary

Figure 2.16.1 Ovarian cancer in different regions, 2008

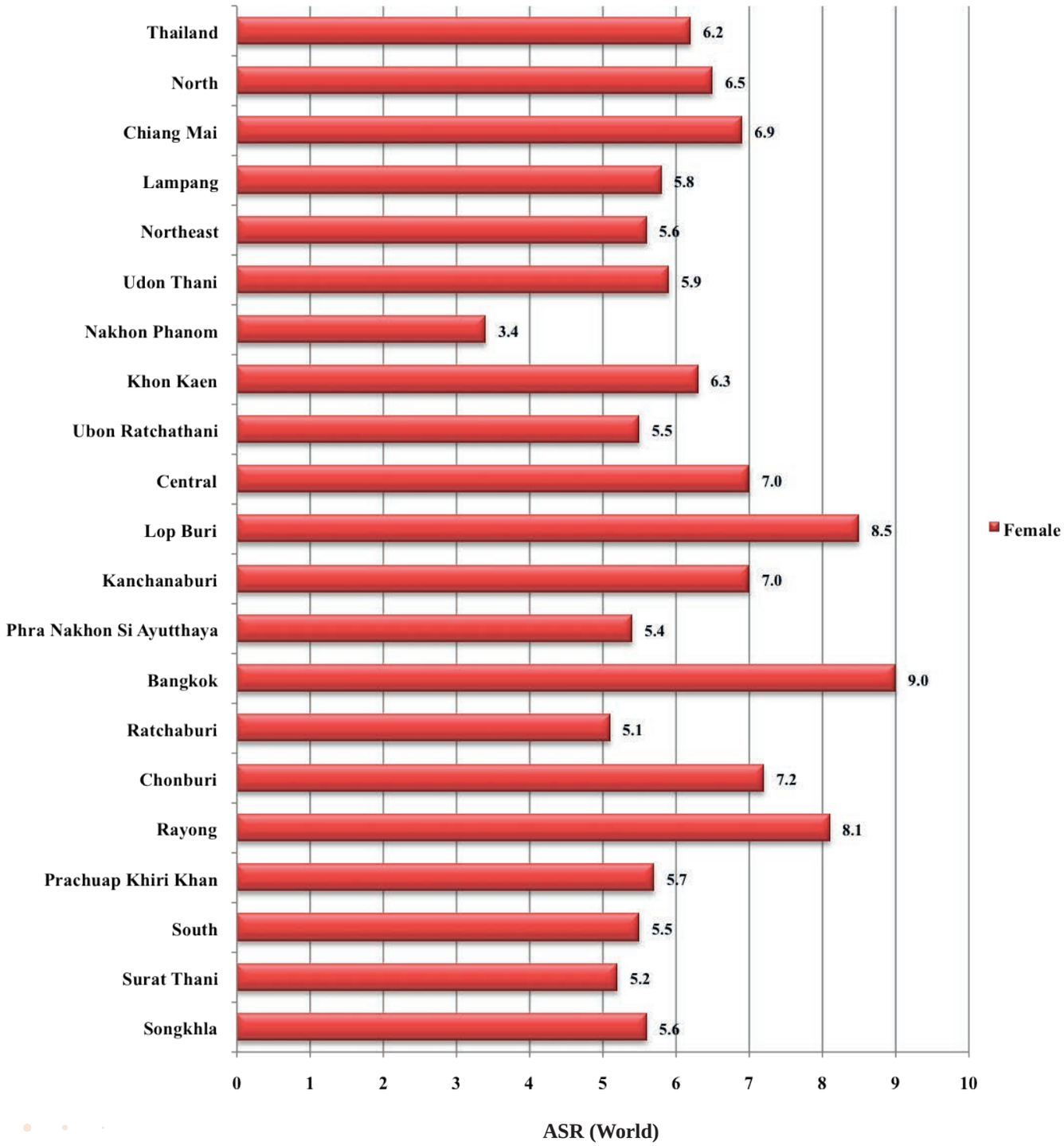


Figure 2.16.2 Age-specific incidence rates of ovarian cancer, 2008

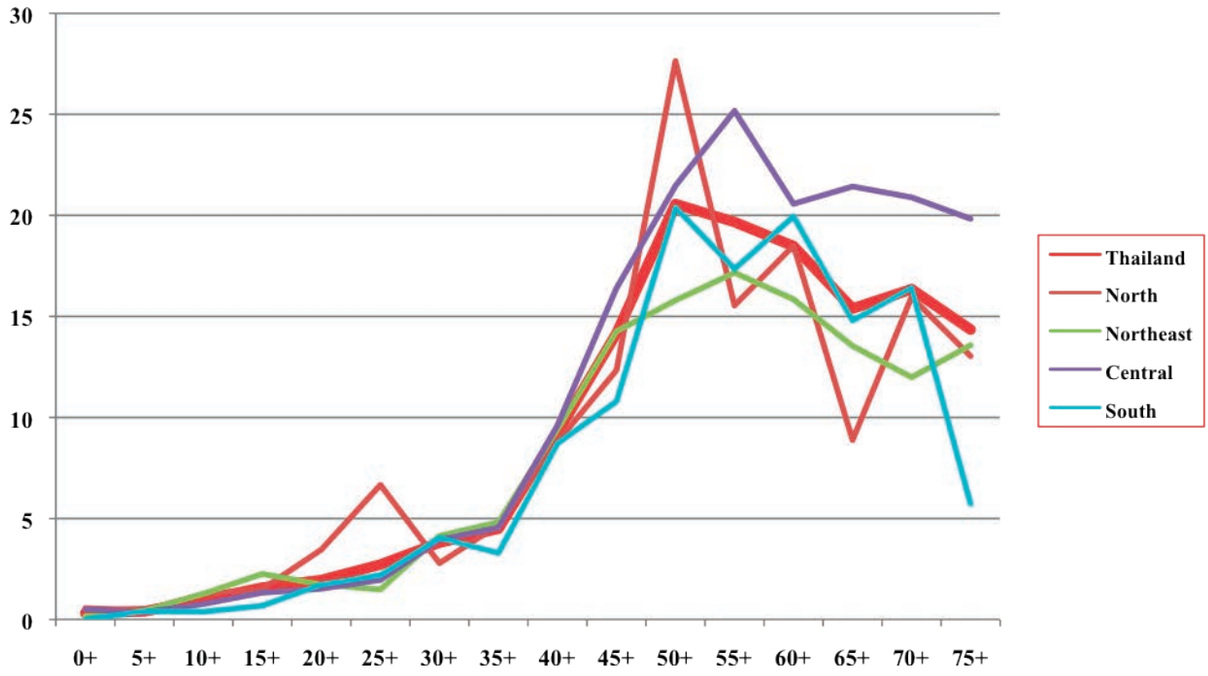


Figure 2.16.3 Histological types of ovarian cancer, 2008

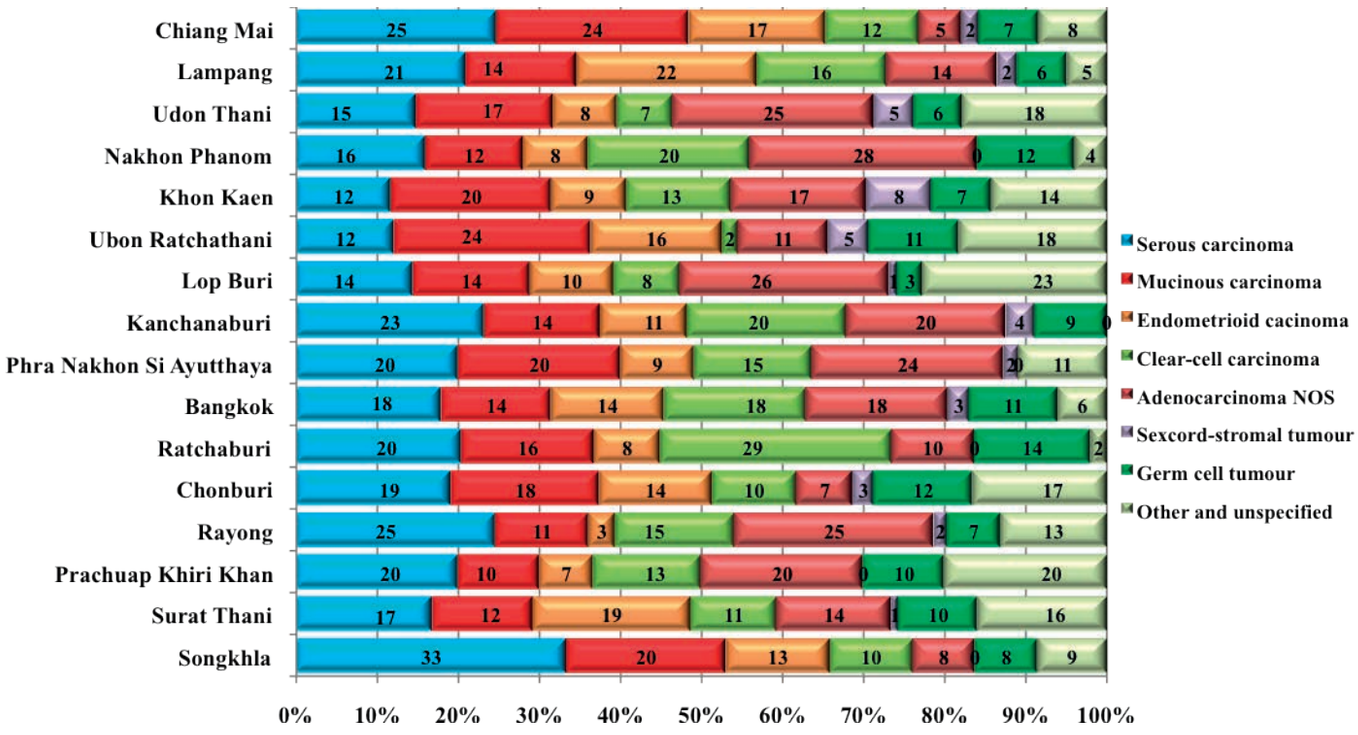
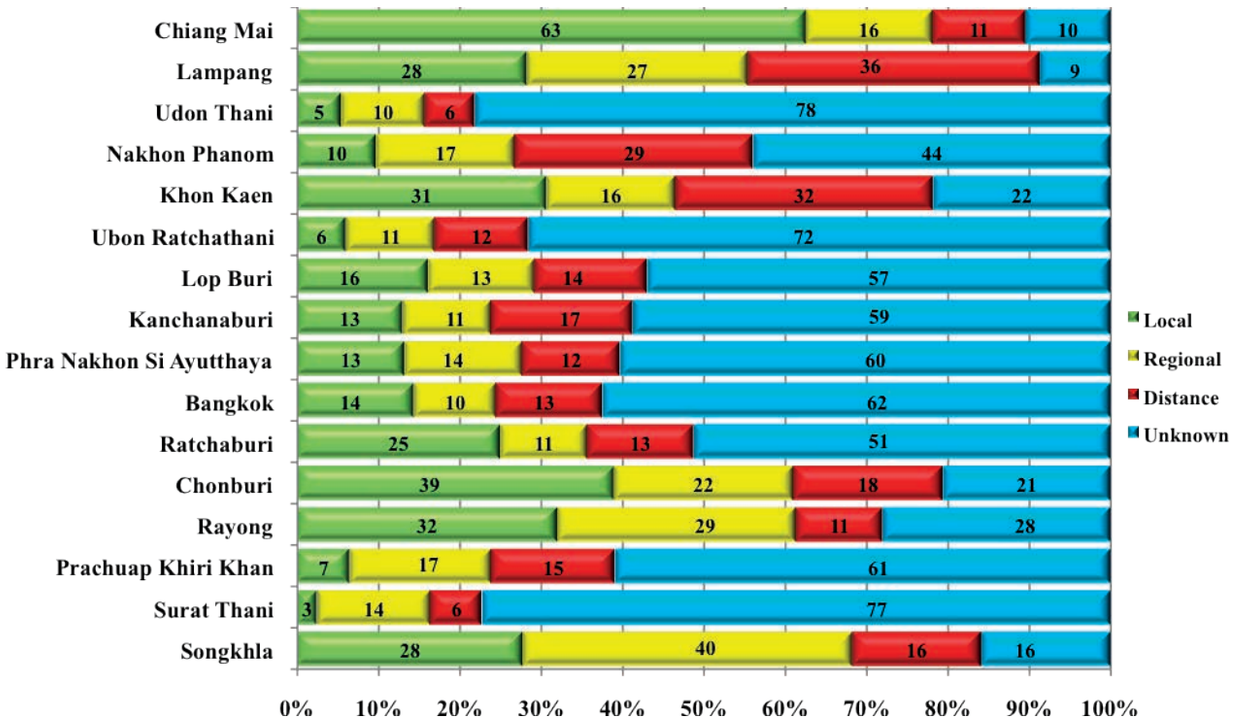


Figure 2.16.4 Stage distribution of ovarian cancer, 2008



Prostate

Figure 2.17.1 Prostate cancer in different regions, 2008

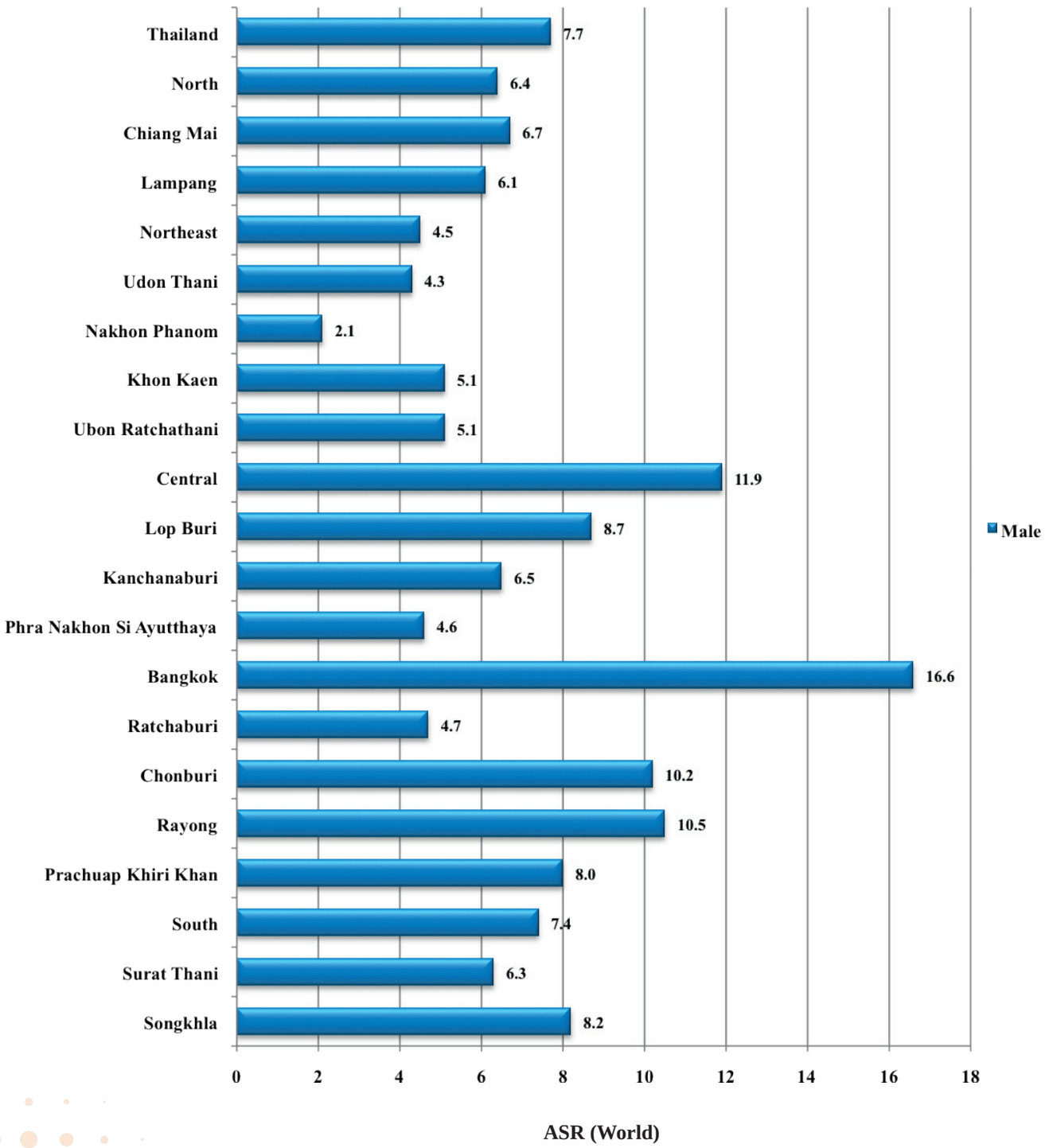
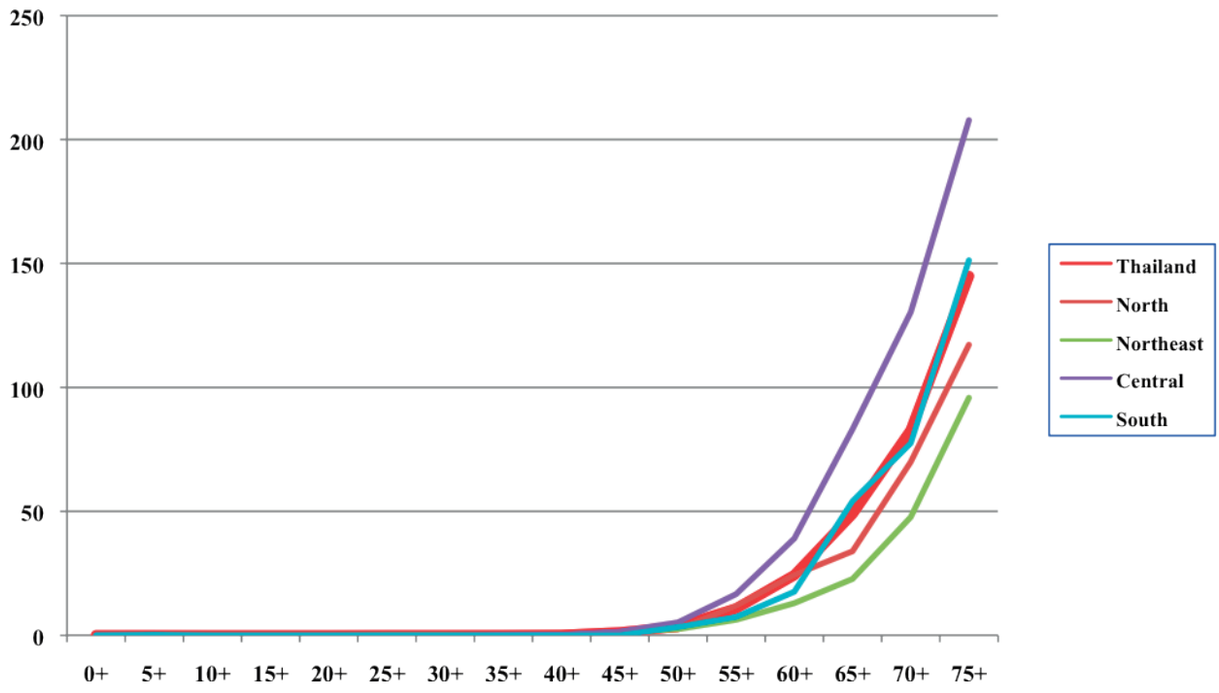


Figure 2.17.2 Age-specific incidence rates of prostate cancer, 2008



Urinary bladder

Figure 2.18.1 Urinary bladder cancer in different regions, 2008

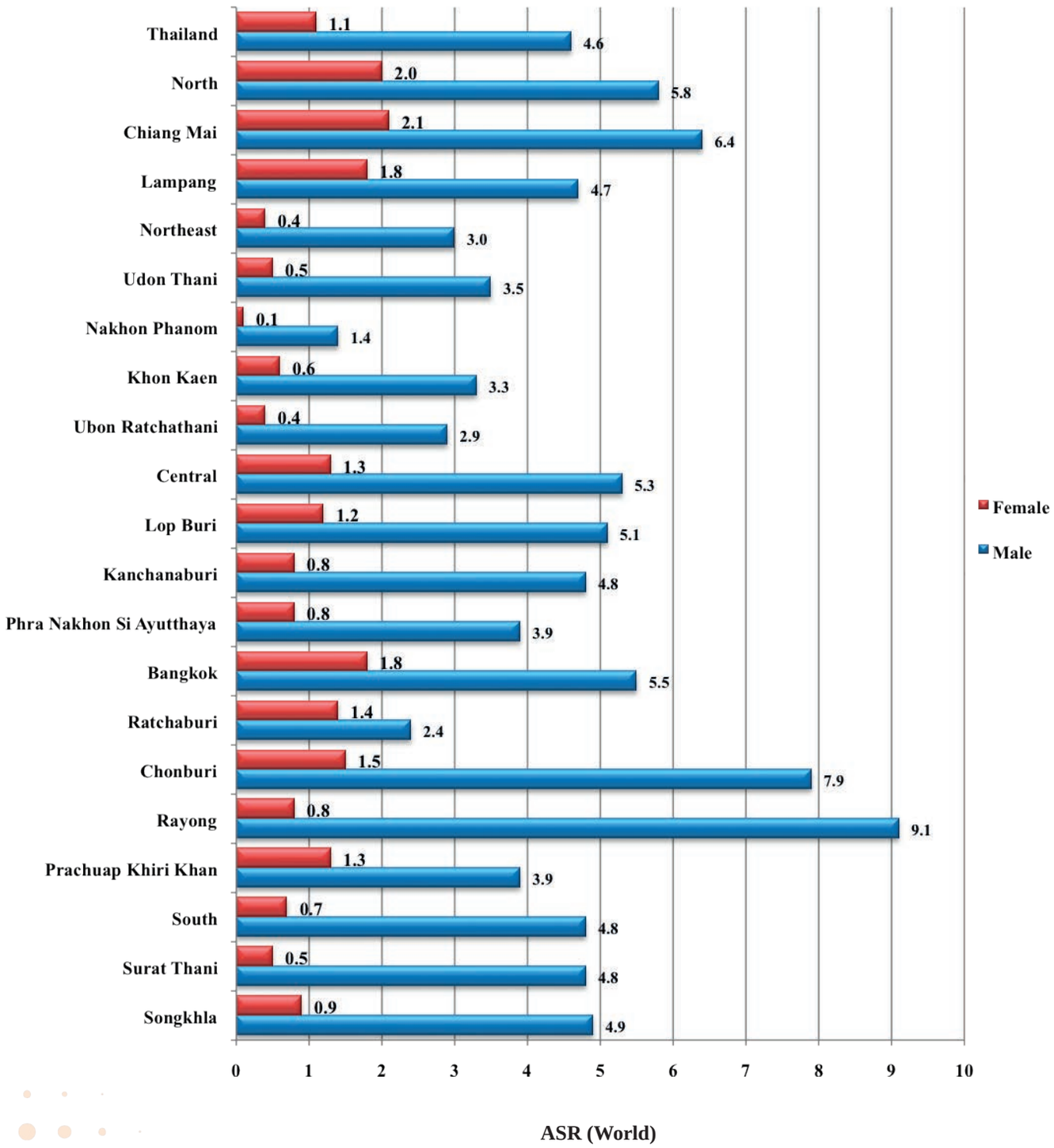
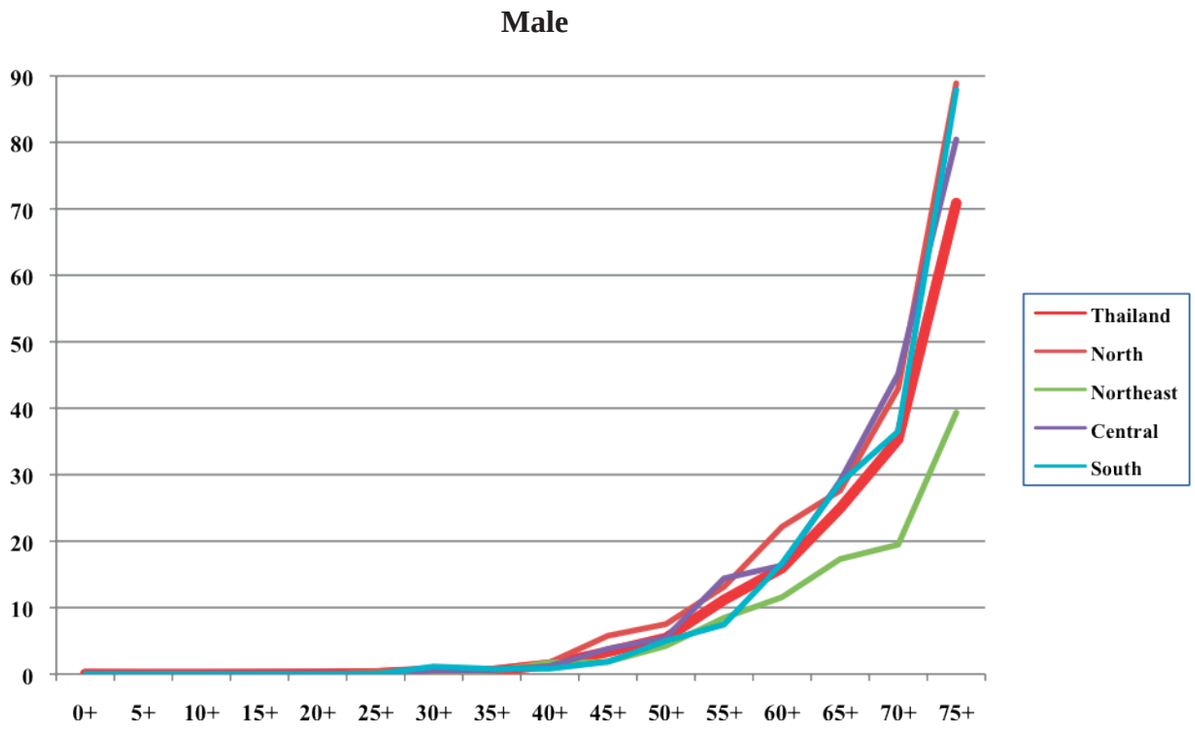


Figure 2.18.2 Age-specific incidence rates of urinary bladder cancer, 2008



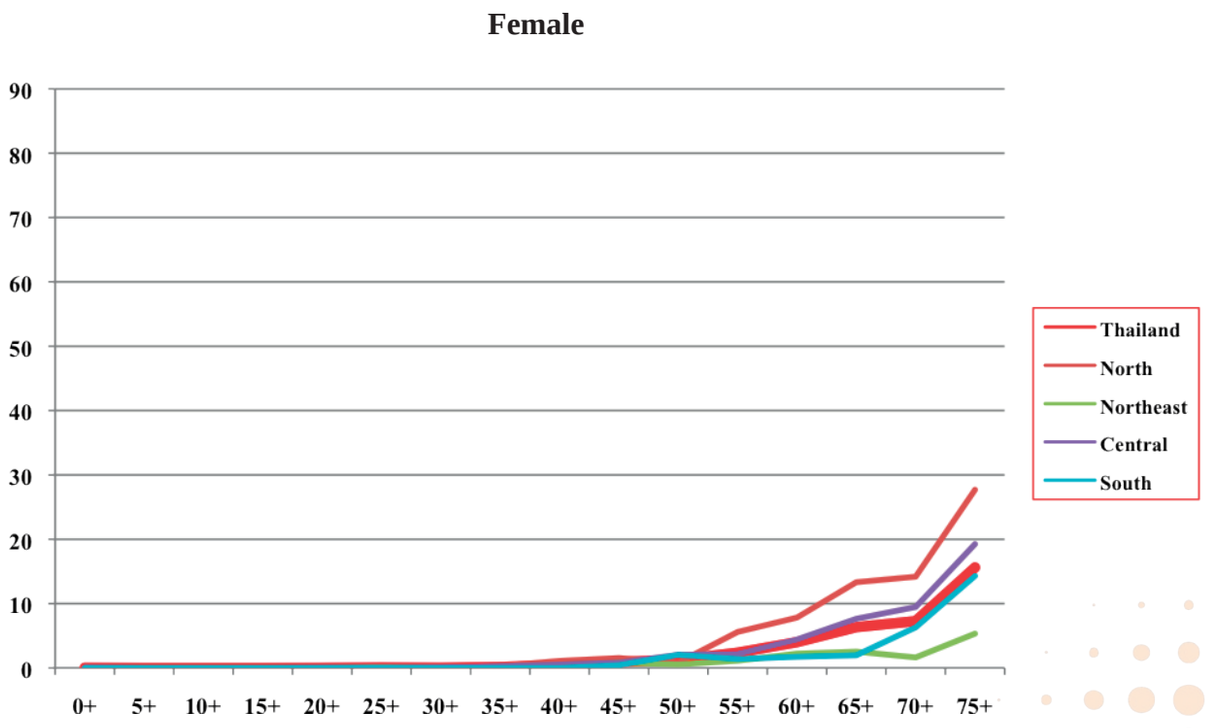
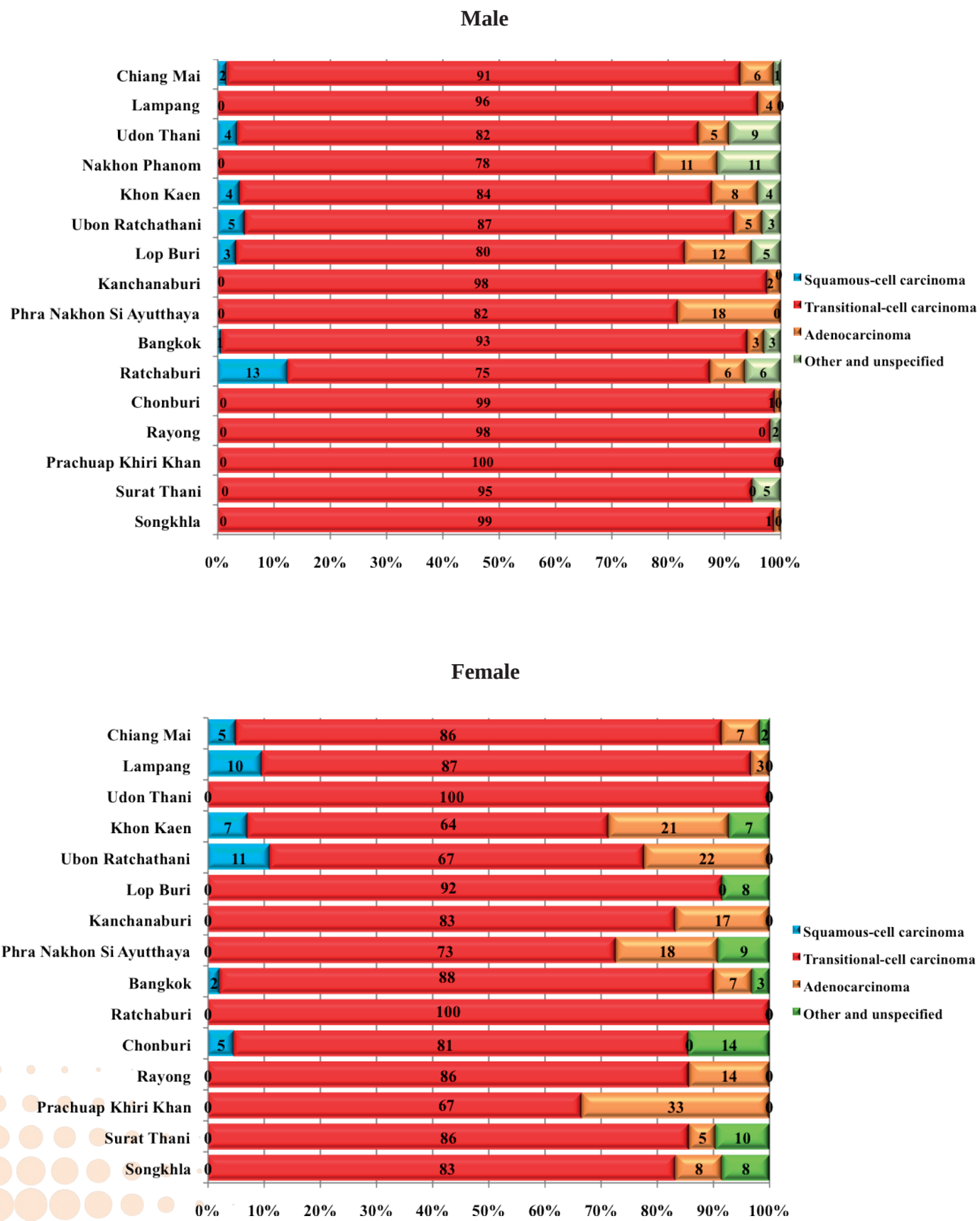


Figure 2.18.3 Histological types of urinary bladder cancer, 2008



Thyroid gland

Figure 2.19.1 Thyroid cancer in different regions, 2008

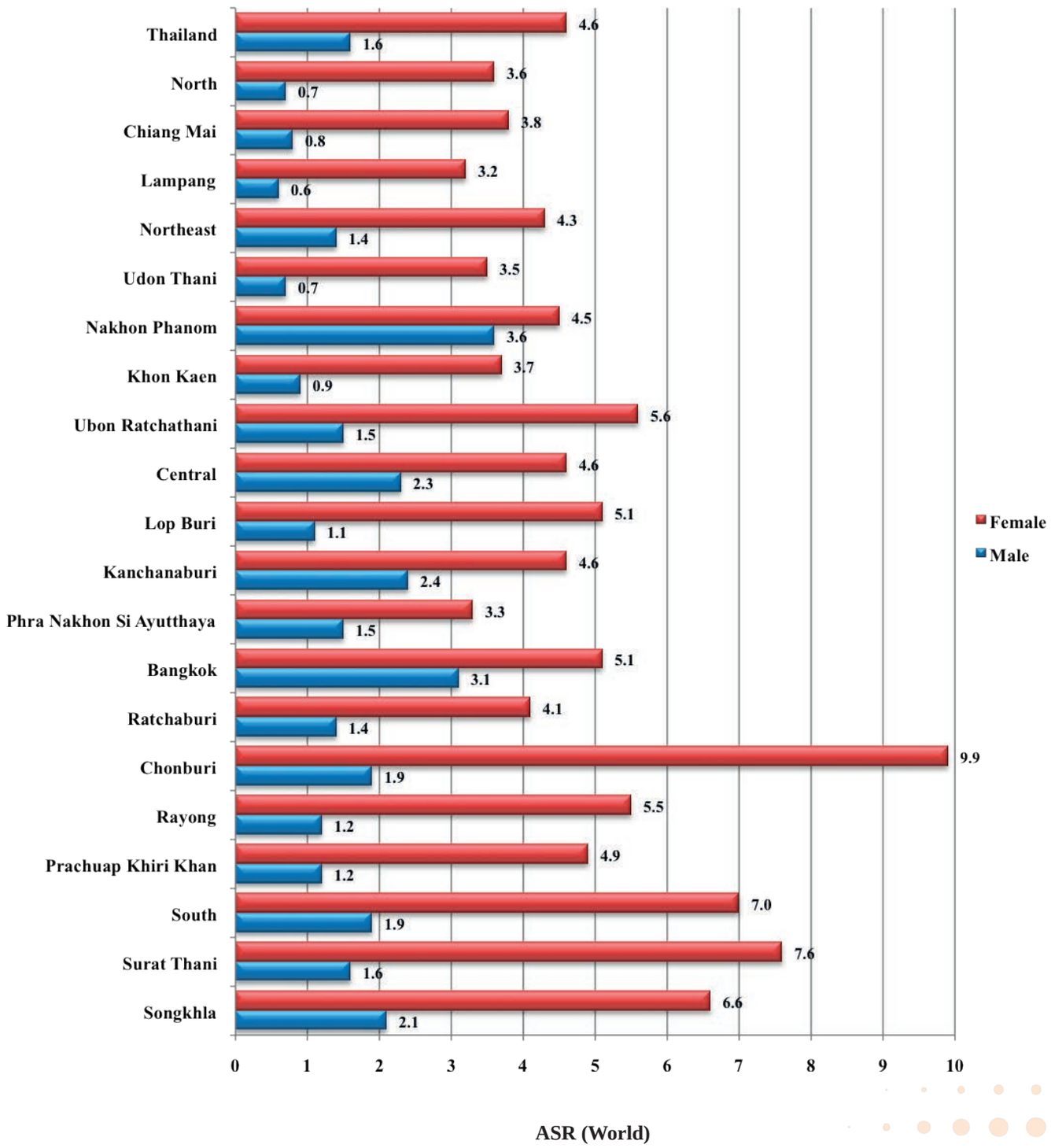


Figure 2.19.2 Age-specific incidence rates of thyroid cancer, 2008

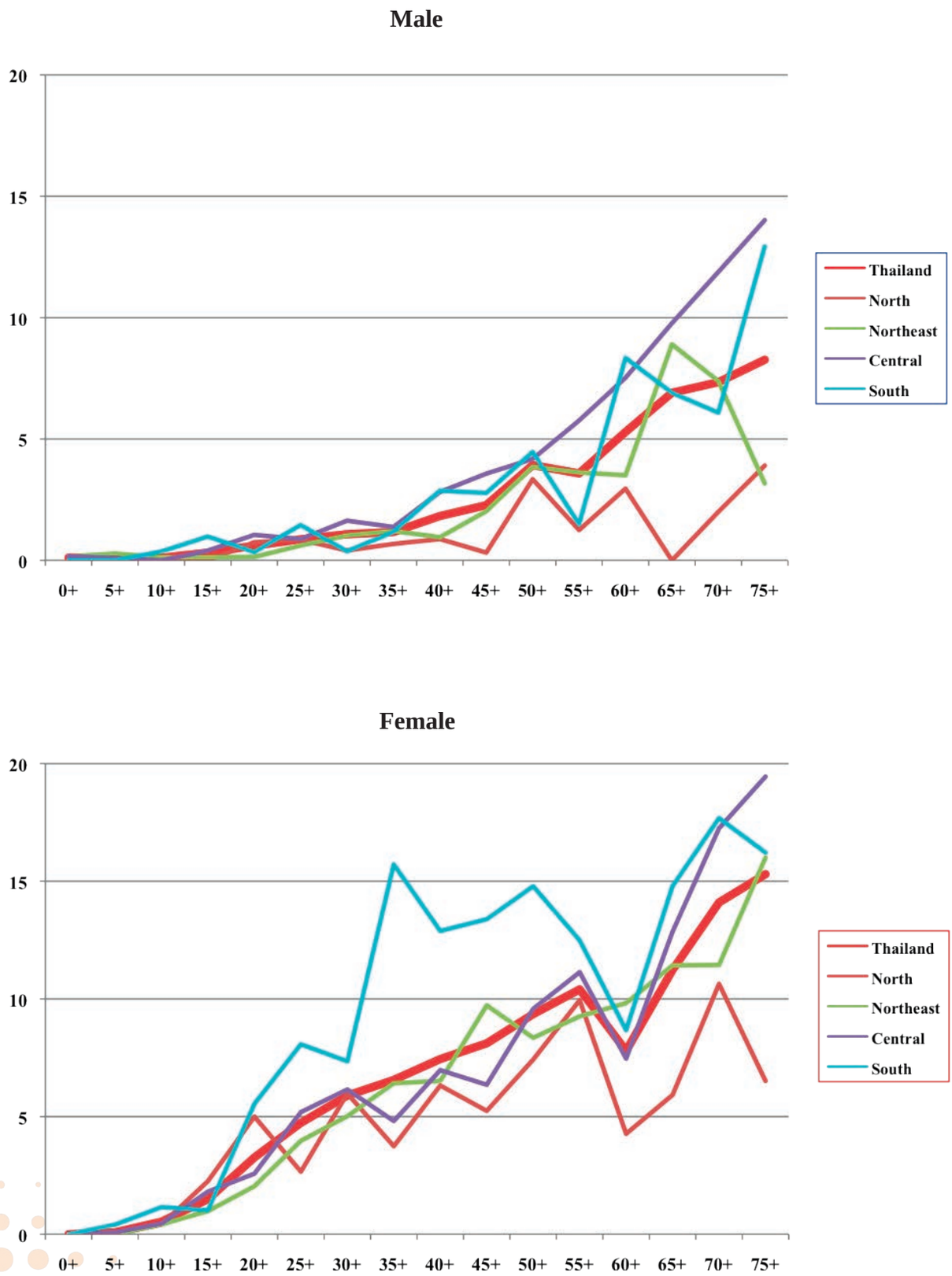
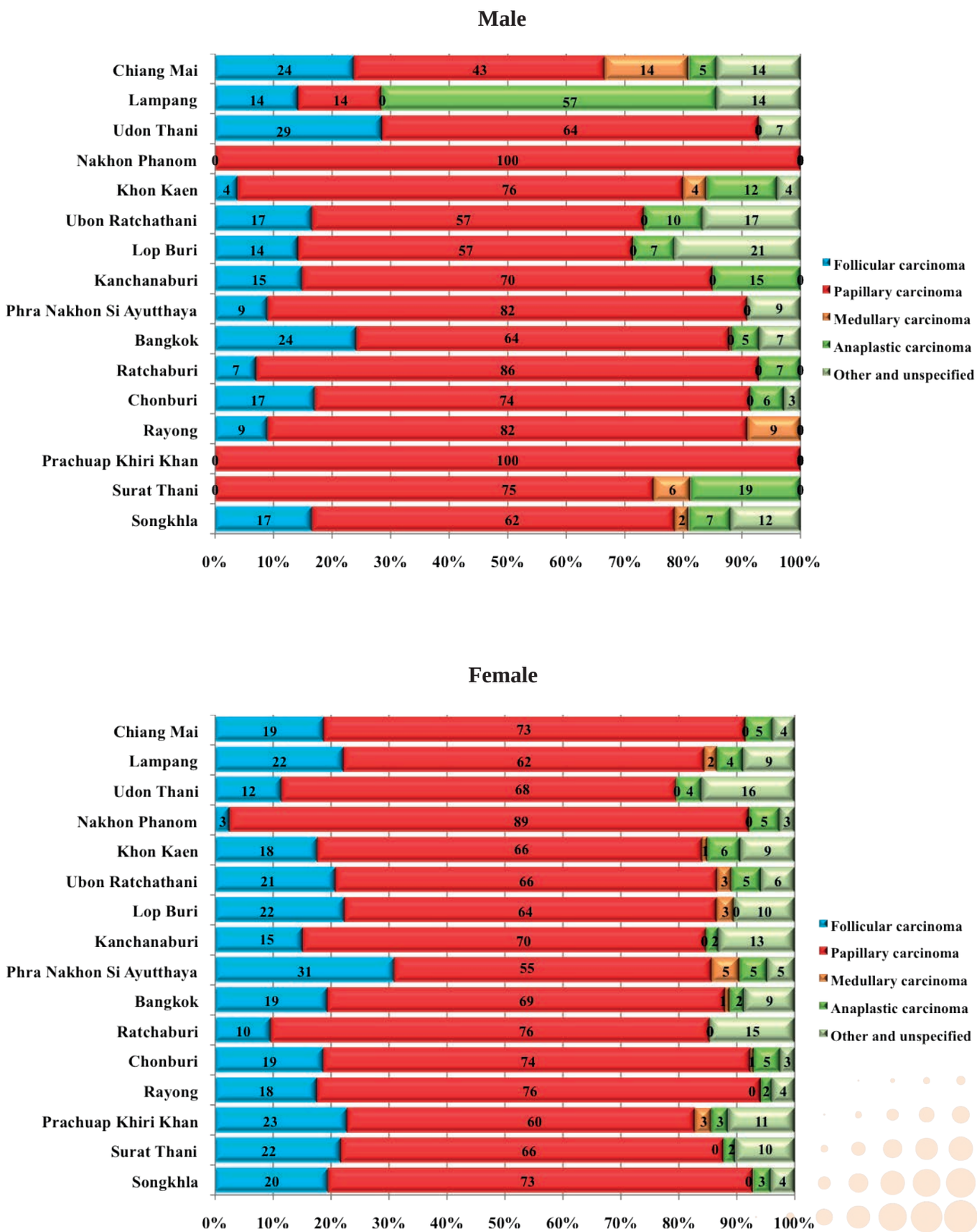


Figure 2.19.3 Histological types of thyroid cancer, 2008



Lymphoma

Figure 2.20.1 Lymphoma cancer in different regions, 2008

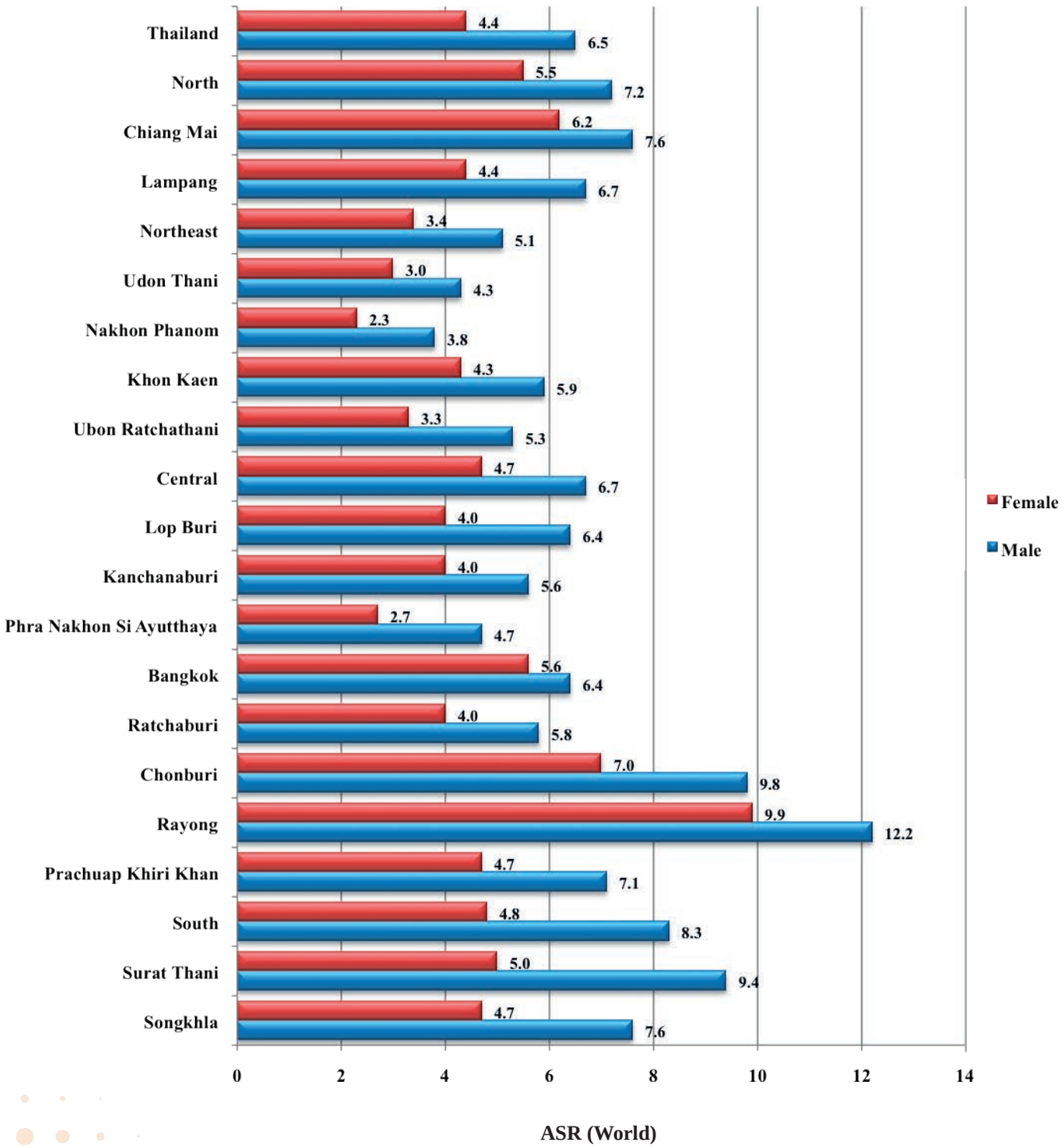
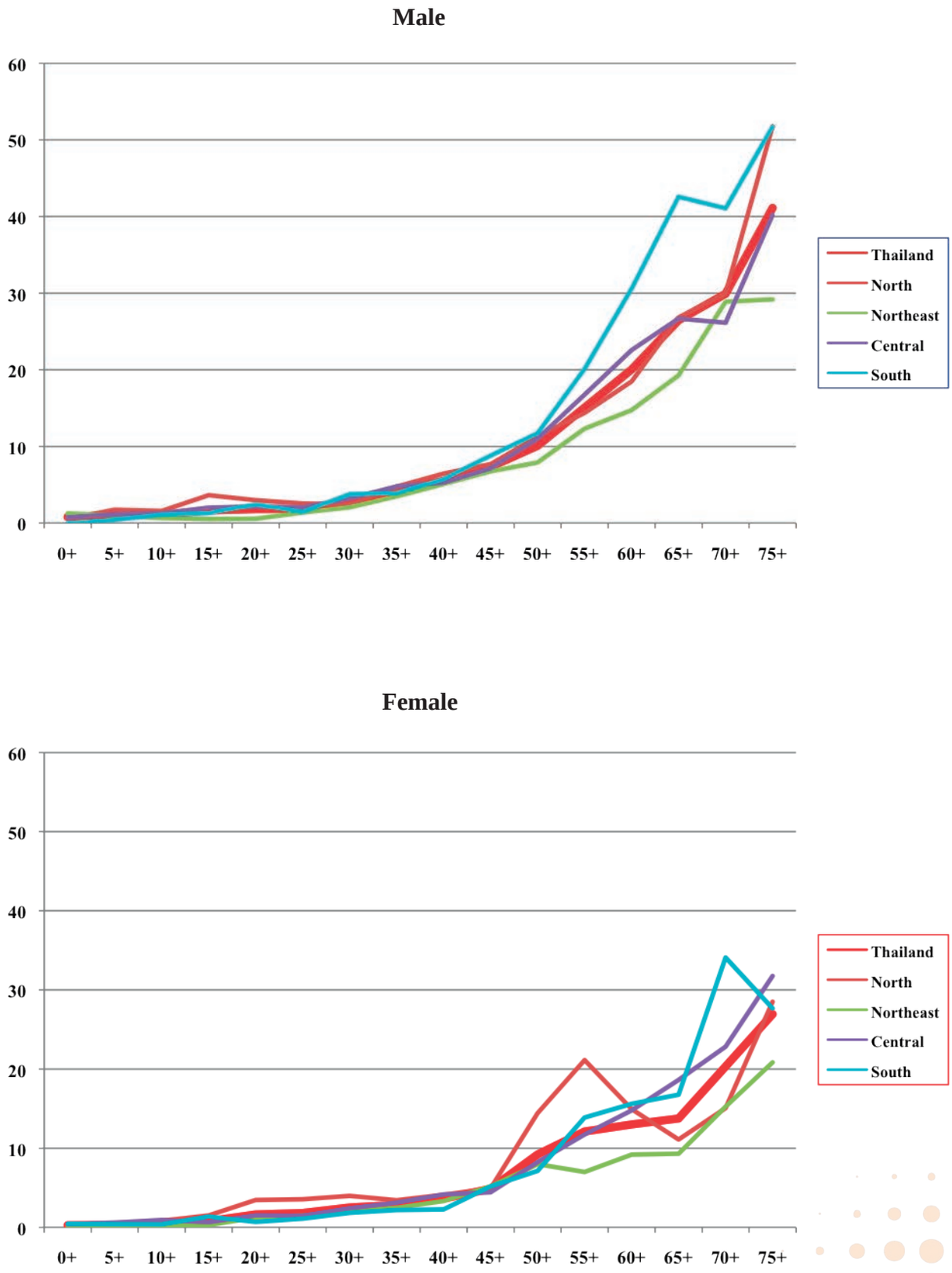


Figure 2.20.2 Age-specific incidence rates of lymphoma cancer, 2008



Leukemia

Figure 2.21.1 Leukemia cancer in different regions, 2008

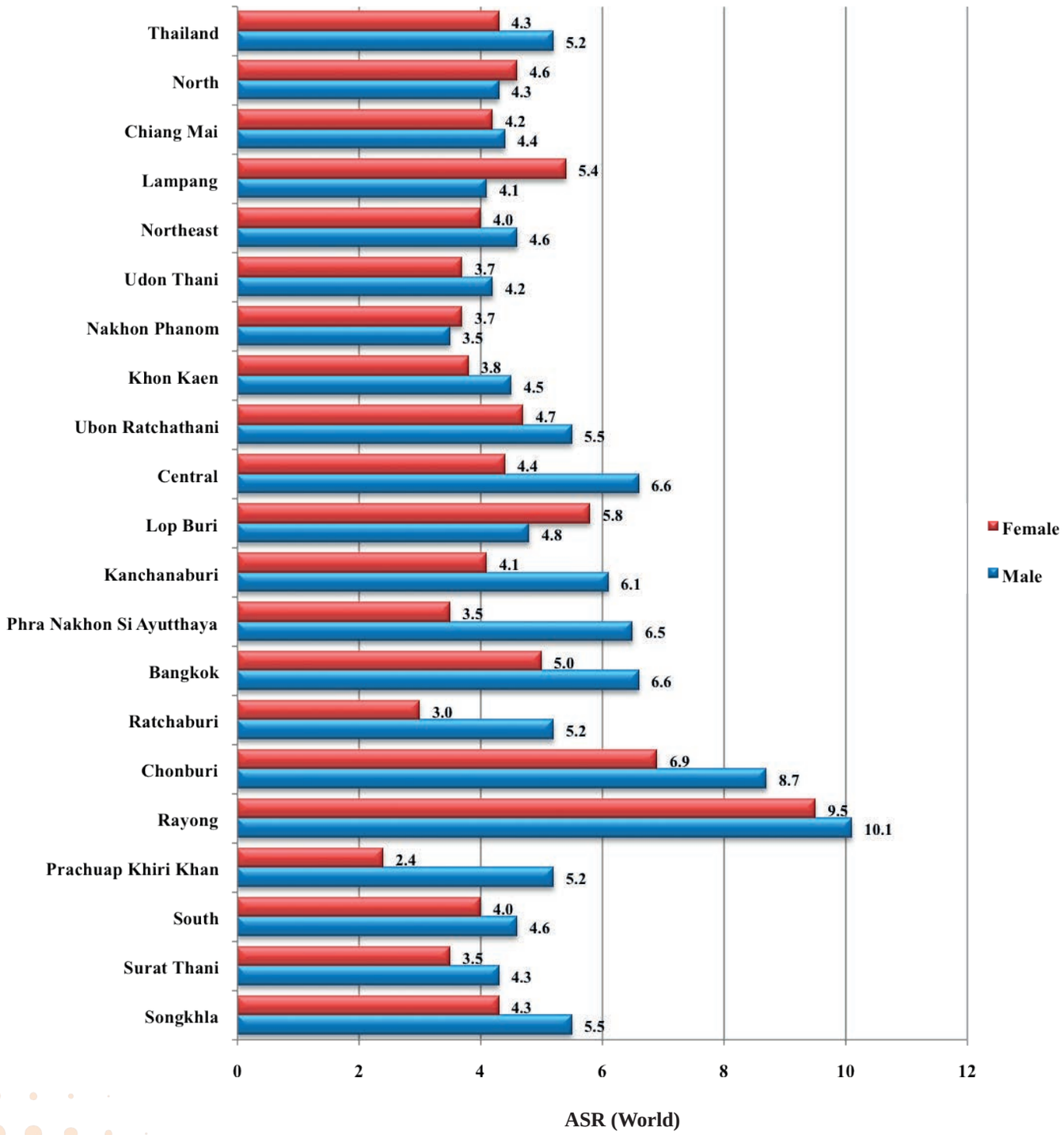


Figure 2.21.2 Age-specific incidence rates of leukemia cancer, 2008

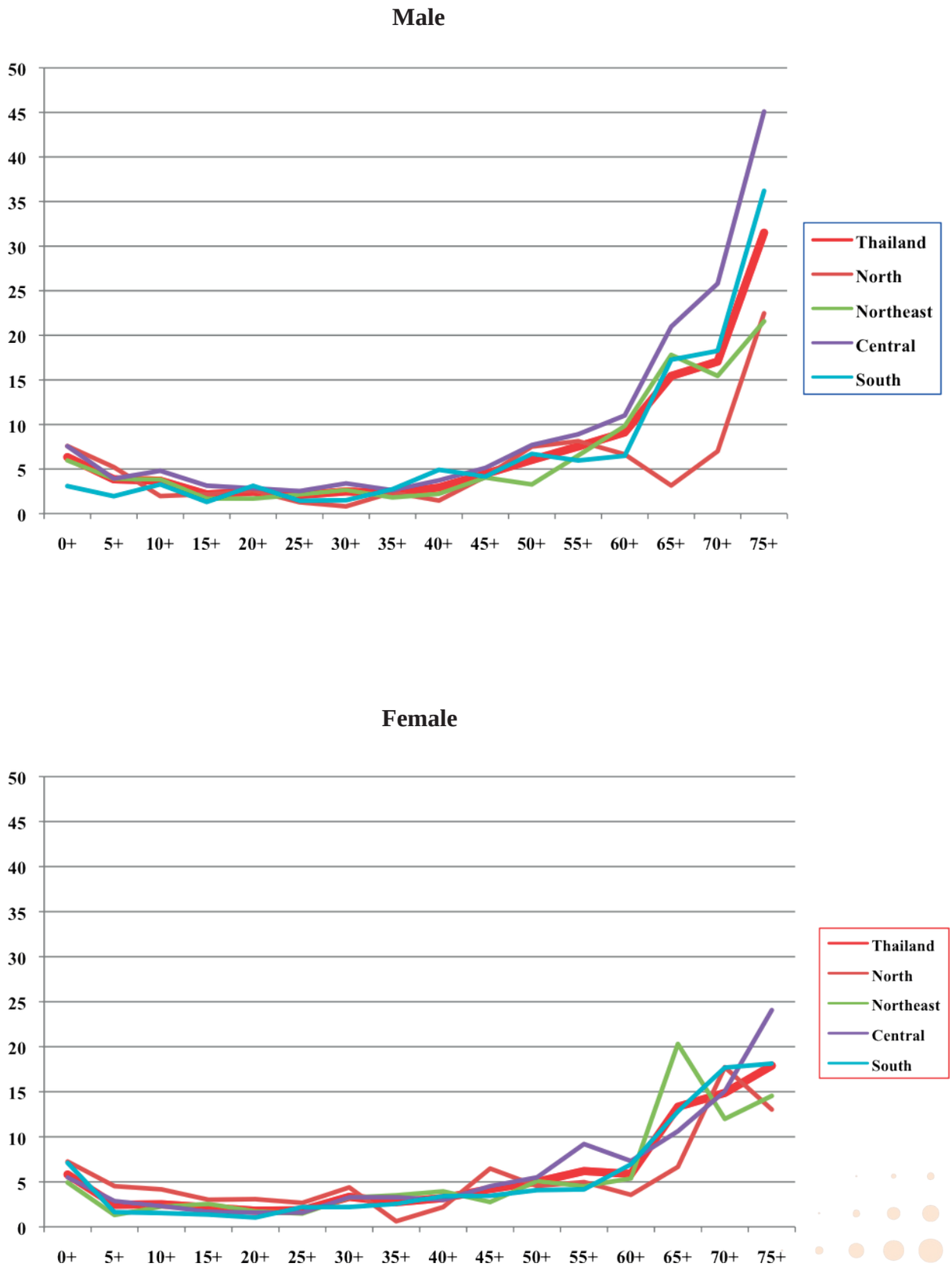
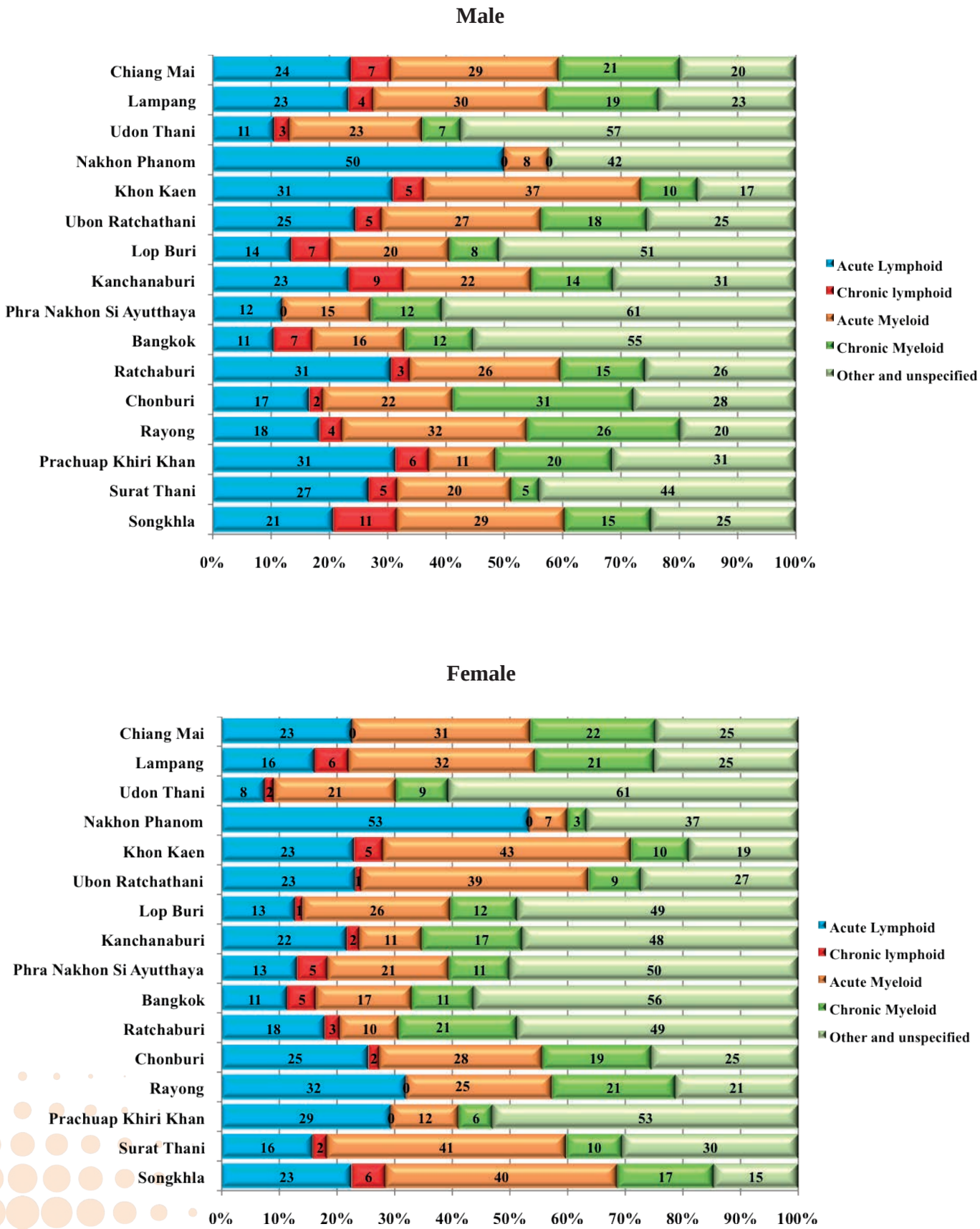


Figure 2.21.3 Histological types of leukemia cancer, 2008



Chapter III

Chiang Mai Cancer Registry

Lampang Cancer Registry

Udon Thani Cancer Registry

Nakhon Phanom Cancer Registry

Khon Kaen Cancer Registry

Ubon Ratchathani Cancer Registry

Lop Buri Cancer Registry

Kanchanaburi Cancer Registry

Phra Nakhon Si Ayutthaya Cancer Registry

Bangkok Cancer Registry

Ratchaburi Cancer Registry

Chon Buri Cancer Registry

Rayong Cancer Registry

Prachuap Khiri Khan Cancer Registry

Surat Thani Cancer Registry

Songkhla Cancer Registry

Pathum Thani Cancer Registry

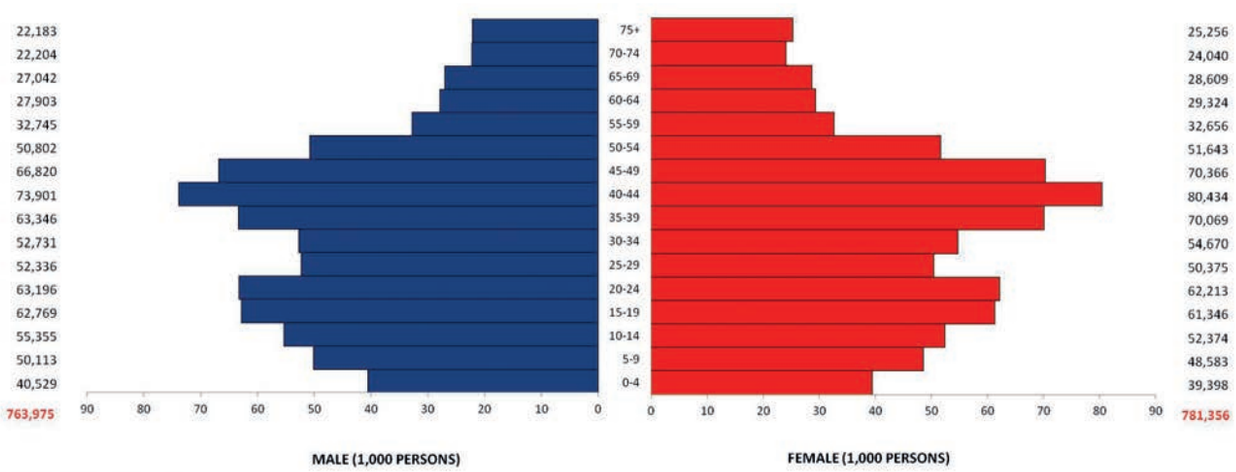
Chiang Mai Cancer Registry

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 22 districts and 2 sub-districts. In the year 2005 the population of Chiang Mai was 1,533,206 of which 783,471 were females and 749,735 were males (1). 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.Chiang Maipol.net / webengwebChiangmai)

Population pyramid, Chiang Mai, 2008



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 9 private hospitals. The total number of hospital beds in Chiang Mai was 9,180 beds with 1,167 doctors in the year 2002. Most of the cancer cases are referred to provincial, university or big private hospitals which can provide surgery and chemotherapy. Radiotherapy can be performed only in Chiang Mai University Hospital.

Registry procedures

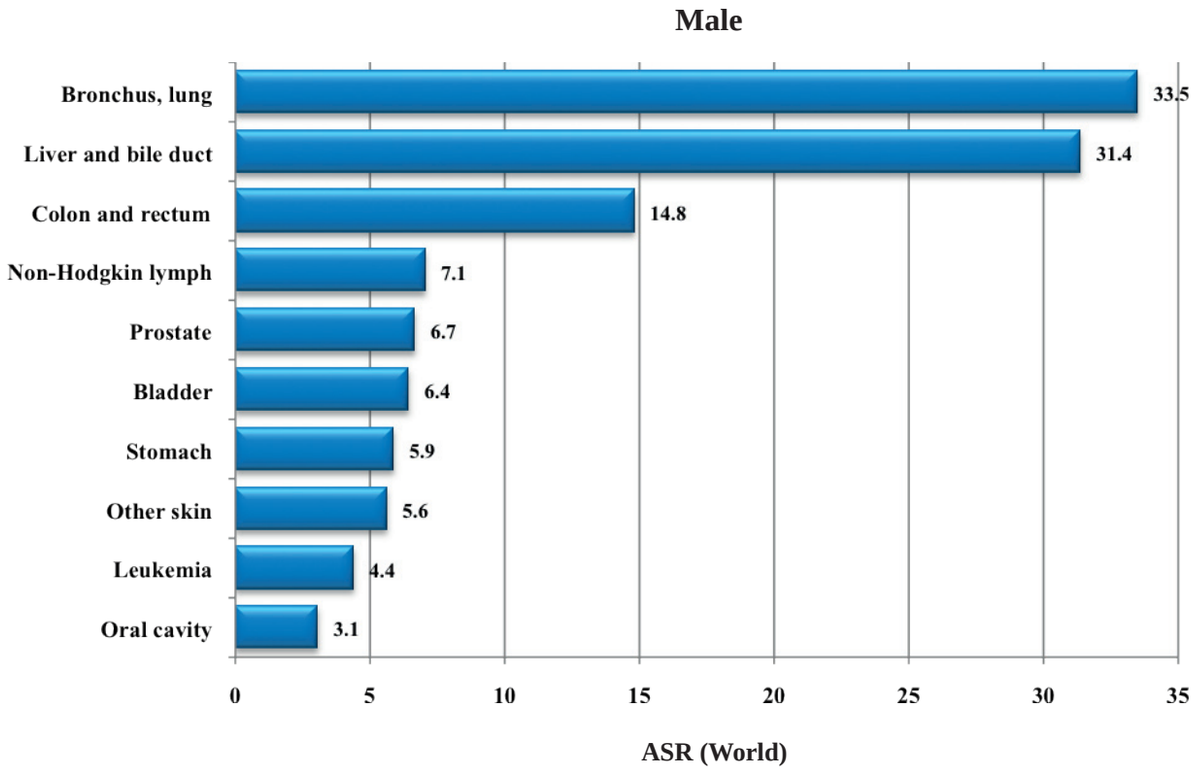
The cancer unit, Faculty of Medicine, Chiang Mai University has been maintaining a hospital-based cancer registry since 1963. Data on cancer patients are now collected actively from every hospital in Chiang Mai. The data of Chiang Mai residents are extracted from the hospital based cancer registry of 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 is used in coding of the primary sites of tumor and histology types. The record forms are reviewed by a surgeon who is 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 Canreg-3 program. Death certificates specifying cancer are collected from the website of the office of the Ministry of Interior. The information is matched with the existing records, unmatched cases being registered as death certificate only (DCO).

Summary of results

New cases registered in 2008, 1,431 were males and 1,671 were females, making 3,102 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 152.0 per 100,000, with lung cancer ranking first (ASR = 33.5) followed by liver and bile duct (ASR = 31.4), and colon and rectum (ASR = 14.8). The ASR of all sites in females was higher than in males (ASR = 165.8), the three leading cancers being breast (ASR = 31.1), cervix (ASR = 25.5) and lung (ASR = 23.6).

Figure 3.1 Leading cancer in Chiang Mai, 2008



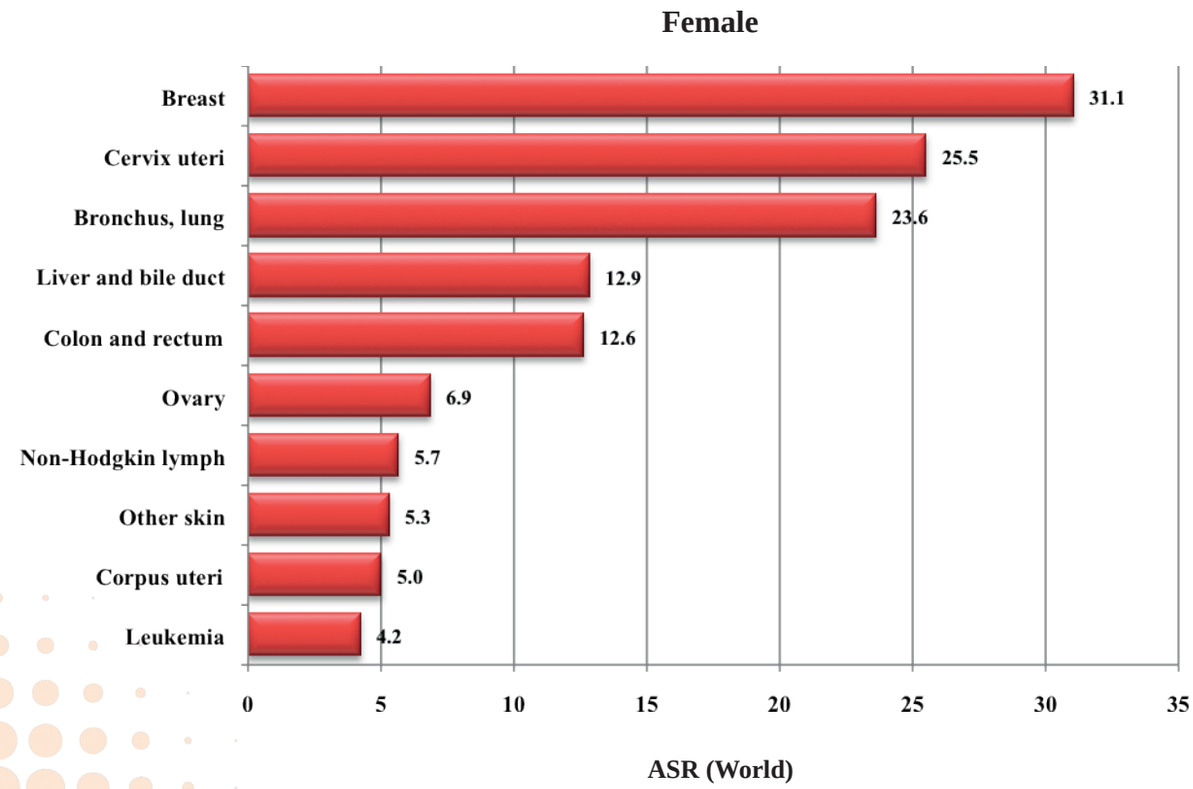


Table 3.1.1 Chiang Mai (2008), Annual Incidence per 100,000 by Age Group (years) – Male

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	0.5	0.0	0.0	0.0	1.2	0.0	3.0	1.5	0.2	0.2	C00
Tongue	12	0.0	0.0	0.0	0.0	0.0	0.6	0.0	2.1	0.5	1.5	3.3	3.1	6.0	1.2	10.5	9.0	1.6	1.2	C01-02
Mouth	12	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	1.4	0.5	3.9	5.1	6.0	2.5	4.5	13.5	1.5	1.2	C03-06
Salivary glands	4	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.5	0.5	0.7	2.0	2.4	1.2	0.0	1.5	0.5	0.4	C07-08
Tonsil	5	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	2.0	2.0	4.1	0.0	1.2	1.5	3.0	0.7	0.5	C09
Other oropharynx	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	1.2	0.0	3.0	6.0	0.3	0.3	C10
Nasopharynx	26	0.0	0.0	0.6	0.0	0.5	1.9	2.5	1.6	2.3	4.5	5.9	12.2	8.4	8.6	10.5	13.5	3.4	2.8	C11
Hypopharynx	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.0	1.0	0.0	0.0	1.5	10.5	0.7	0.5	C12-13
Pharynx unspecified	1	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	0.0	0.0	0.1	0.1	C14
Esophagus	17	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.1	0.5	1.5	8.5	7.1	6.0	3.7	4.5	21.0	2.3	1.8	C15
Stomach	56	0.0	0.0	0.0	0.0	1.1	1.9	1.9	1.1	3.2	8.0	8.5	16.3	21.5	33.3	52.5	40.6	7.4	5.9	C16
Small intestine	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	3.9	1.0	2.4	1.2	3.0	3.0	0.7	0.5	C17
Colon	71	0.0	0.0	0.0	0.0	1.1	2.5	3.2	2.6	4.1	8.5	18.4	31.6	25.1	28.4	37.5	66.1	9.3	7.5	C18
Rectum	68	0.0	0.0	0.0	0.0	1.1	2.5	2.5	1.6	5.4	9.0	13.1	20.4	26.3	32.0	48.0	63.1	8.9	7.1	C19-20
Anus	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0	1.0	1.2	1.2	0.0	1.5	0.3	0.2	C21
Liver and bile duct	298	1.6	0.0	0.0	1.1	0.5	5.7	10.7	14.7	32.9	50.4	91.2	118.1	124.2	135.6	112.6	174.3	39.0	31.4	C22,C24
Gallbladder	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	2.0	1.3	3.1	3.6	7.4	10.5	13.5	1.6	1.2	C23
Pancreas	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.0	3.3	7.1	11.9	13.6	18.0	25.5	3.3	2.6	C25
Nose, sinuses etc.	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.0	0.0	3.1	1.2	2.5	3.0	0.0	0.5	0.4	C30-31
Larynx	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.0	5.9	11.2	9.6	6.2	4.5	21.0	2.5	2.1	C32
Trachea, Bronchus, and lung	320	0.0	0.0	0.0	0.0	0.5	2.5	3.8	6.3	10.8	23.9	50.5	128.3	138.6	176.3	276.2	327.6	41.8	33.5	C33-34
Other thoracic organs	4	0.0	0.7	1.2	1.1	1.1	1.9	0.0	0.0	0.5	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.5	0.6	C37-38
Bone	8	1.6	0.0	1.8	1.1	0.5	0.6	0.6	0.5	0.5	2.0	2.0	1.0	0.0	1.2	1.5	3.0	1.0	1.0	C40-C41
Melanoma of skin	7	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.9	0.5	3.3	1.0	1.2	0.0	4.5	9.0	0.9	0.7	C43
Other skin	55	0.0	0.0	0.6	1.1	0.5	2.5	1.3	1.1	3.2	3.0	7.2	21.4	11.9	21.0	36.0	84.1	7.2	5.6	C44
Mesothelioma	0	0.0	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	0.0	0.0	0.1	C45
Kaposi sarcoma	1	0.0	0.0	0.0	0.0	0.5	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C46
Connective tissue	7	0.0	0.0	0.6	0.0	0.5	0.6	0.0	1.1	0.9	0.5	2.0	3.1	2.4	0.0	4.5	1.5	0.9	0.7	C47,C49
Breast	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.5	1.3	3.1	1.2	0.0	1.5	1.5	0.6	0.4	C50
Penis	10	0.0	0.0	0.0	0.0	0.0	1.3	0.6	1.1	2.3	1.0	3.3	2.0	3.6	3.7	3.0	3.0	1.3	1.0	C60
Prostate	65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.9	16.3	29.9	37.0	66.1	106.7	8.5	6.7	C61
Testis	5	0.0	0.0	0.0	0.5	0.5	1.3	1.3	1.6	0.5	1.0	0.7	0.0	0.0	0.0	1.5	1.5	0.7	0.5	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	1.5	0.0	0.0	C63
Kidney	19	0.8	0.0	0.0	0.0	0.0	0.6	0.6	0.0	1.4	2.5	7.2	10.2	4.8	7.4	13.5	9.0	2.5	2.1	C64
Renal pelvis	2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.7	3.1	0.0	0.0	0.0	1.5	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	1.0	0.0	0.0	0.0	2.5	1.5	0.0	0.2	0.2	C66
Bladder	63	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.9	5.5	9.2	16.3	28.7	25.9	43.5	105.2	8.2	6.4	C67
Other urinary organs	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	0.0	0.0	C68
Eye	4	1.6	0.0	0.0	0.0	1.1	0.0	0.0	1.6	0.5	0.0	0.0	1.0	1.2	1.2	0.0	1.5	0.5	0.6	C69
Brain, nervous system	20	4.1	2.0	1.8	1.1	0.5	0.6	1.3	1.6	2.7	3.5	2.6	4.1	4.8	1.2	10.5	12.0	2.7	2.6	C70-72
Thyroid	8	0.0	0.0	0.0	0.0	0.5	1.3	0.6	1.1	1.4	0.5	4.6	2.0	0.0	0.0	3.0	3.0	1.0	0.8	C73
Adrenal gland	1	0.8	0.7	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.2	0.3	C74
Other endocrine	1	0.0	0.0	1.2	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	C75
Hodgkin disease	5	0.0	1.3	0.0	0.0	1.1	0.0	0.6	0.0	0.0	0.0	0.7	3.1	0.0	0.0	0.0	7.5	0.6	0.6	C81
Non-Hodgkin lymphoma	66	0.0	2.7	0.6	3.2	1.6	2.5	3.2	5.8	7.7	8.0	13.8	14.3	20.3	29.6	31.5	52.6	8.7	7.1	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.0	0.7	6.1	6.0	0.0	1.5	10.5	1.3	1.0	C90
Lymphoid leukemia	11	3.3	5.3	0.6	1.6	0.0	0.0	0.6	1.1	0.5	0.5	2.6	0.0	0.0	0.0	0.0	10.5	1.4	1.6	C91
Myeloid leukemia	22	4.1	0.0	0.0	1.1	2.1	1.9	0.6	0.5	1.4	4.5	7.2	9.2	4.8	2.5	1.5	18.0	2.9	2.7	C92-94
Leukemia unspecified	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	0.0	0.0	0.0	0.0	0.1	0.1	C95
Other and unspecified	65	0.0	0.0	0.0	0.0	1.1	1.9	1.3	2.1	2.7	5.5	15.1	26.5	29.9	29.6	39.0	63.1	8.5	6.9	O&U
All sites	**1,431**	**18.1**	**12.6**	**9.6**	**11.7**	**16.9**	**38.9**	**40.5**	**53.7**	**96.1**	**169.1**	**310.4**	**519.2**	**549.5**	**618.8**	**869.2**	**1322.3**	**187.4**	**152.0**	**ALL**

Table 3.1.2 Chiang Mai (2008), Annual Incidence per 100,000 by Age Group (years) – 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	3	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	4.2	5.3	0.3	0.2	C00
Tongue	4	0.0	0.0	0.6	0.5	0.0	0.0	0.0	0.0	0.4	0.0	3.2	2.0	1.1	0.0	1.4	0.0	0.5	0.4	C01-02
Mouth	10	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.5	0.0	0.9	1.9	5.1	2.3	2.3	9.7	10.6	1.3	1.0	C03-06
Salivary glands	6	0.0	0.0	0.0	0.5	0.0	0.7	1.8	1.4	0.4	0.5	0.0	0.0	1.1	2.3	5.5	0.0	0.7	0.6	C07-08
Tonsil	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.1	1.2	0.0	5.3	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	1.2	0.0	2.6	0.1	0.1	C10
Nasopharynx	12	0.0	0.0	0.0	0.0	0.0	1.3	1.2	1.4	1.2	1.4	3.2	7.1	4.5	3.5	1.4	2.6	1.5	1.2	C11
Hypopharynx	2	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	1.4	6.6	0.3	0.2	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	1.4	0.0	0.0	0.0	C14
Esophagus	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	2.0	1.1	3.5	8.3	7.9	0.8	0.6	C15
Stomach	39	0.0	0.0	0.0	0.0	0.5	2.0	3.0	1.9	5.0	4.3	11.0	9.2	4.5	17.5	25.0	27.7	5.0	3.7	C16
Small intestine	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.9	0.6	2.0	0.0	3.5	0.0	0.0	0.4	0.3	C17
Colon	69	0.0	0.0	0.0	0.0	0.5	1.3	1.2	4.3	6.2	6.6	13.6	33.7	25.0	23.3	26.3	66.0	8.9	6.8	C18
Rectum	56	0.0	0.0	0.0	0.5	0.5	0.7	1.2	2.9	4.6	9.9	14.8	18.4	14.8	16.3	18.0	56.8	7.1	5.3	C19-20
Anus	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.6	4.1	3.4	1.2	2.8	1.3	0.6	0.5	C21
Liver and bile duct	130	0.0	0.0	0.6	0.0	1.1	0.7	1.8	2.4	6.6	14.2	34.2	71.5	35.2	58.3	77.6	93.7	16.6	12.9	C22,C24
Gallbladder	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.4	0.6	4.1	3.4	7.0	9.7	17.2	1.6	1.2	C23
Pancreas	22	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.5	1.7	1.9	6.5	5.1	8.0	7.0	19.4	19.8	2.9	2.1	C25
Nose, sinuses etc.	4	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.8	0.9	0.0	1.0	0.0	0.0	4.2	1.3	0.5	0.3	C30-31
Larynx	6	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.5	0.6	2.0	3.4	2.3	2.8	6.6	0.7	0.6	C32
Trachea, Bronchus, and lung	243	0.0	0.0	0.0	0.0	0.0	0.7	4.3	1.9	11.2	17.1	41.3	78.6	90.9	144.5	163.6	253.4	31.1	23.6	C33-34
Other thoracic organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	1.4	1.3	0.1	0.1	C37-38
Bone	4	0.0	0.0	0.6	0.0	0.0	1.3	1.2	0.0	0.0	0.5	0.6	0.0	0.0	1.2	2.8	2.6	0.5	0.4	C40-C41
Melanoma of skin	6	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.4	0.0	1.4	0.6	2.0	1.1	1.2	1.4	7.9	0.8	0.6	C43
Other skin	57	0.0	0.0	0.6	1.1	0.0	0.0	1.8	1.0	5.0	5.7	7.7	17.4	12.5	18.6	27.7	83.1	7.3	5.3	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	1.3	0.0	0.0	C45
Kaposi sarcoma	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	0.0	0.0	C46
Connective tissue	7	0.8	0.0	0.0	0.5	0.0	0.7	0.6	1.0	0.8	0.9	0.6	4.1	4.5	0.0	0.0	2.6	0.9	0.8	C47,C49
Breast	319	0.0	0.0	0.0	0.0	1.1	7.3	14.6	34.3	49.3	88.1	129.1	130.7	81.8	54.8	58.2	72.6	40.9	31.1	C50
Vulva	7	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.9	2.6	2.0	4.5	2.3	6.9	2.6	0.9	0.7	C51
Vagina	3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	2.0	0.0	1.2	1.4	2.6	0.4	0.4	C52
Cervix uteri	264	0.0	0.0	0.0	0.5	1.1	6.0	18.3	32.8	49.7	66.8	86.5	112.3	61.4	43.1	47.1	67.3	33.8	25.5	C53
Corpus uteri	48	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.4	3.7	6.6	24.5	37.8	19.3	9.3	18.0	6.6	6.2	5.0	C54
Uterus unspecified	1	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	0.0	0.0	1.3	0.1	0.1	C55
Ovary	66	0.0	0.7	1.3	1.1	4.3	6.6	3.0	4.8	9.5	12.3	34.2	18.4	20.5	5.8	15.3	9.2	8.5	6.9	C56
Other female genital	2	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	1.2	0.0	1.3	0.2	0.2	C57
Placenta	2	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.3	0.2	C58
Kidney	8	0.8	0.7	0.0	0.5	0.0	0.0	1.2	0.0	0.4	0.0	1.3	2.0	2.3	3.5	2.8	10.6	1.1	0.9	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	3.1	0.0	1.2	1.4	0.0	0.2	0.2	C65
Ureter	1	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	1.2	1.4	0.0	0.2	0.1	C66
Bladder	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.7	0.5	0.6	7.1	8.0	14.0	15.3	30.4	2.9	2.1	C67
Other urinary organs	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	1.1	0.0	0.0	0.0	0.1	0.1	C68
Eye	3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.4	0.0	0.0	1.0	1.1	0.0	0.0	4.0	0.4	0.5	C69
Brain, nervous system	13	0.8	0.7	1.3	0.5	1.1	2.0	1.2	1.0	0.0	1.9	5.2	3.1	1.1	2.3	6.9	4.0	1.7	1.5	C70-72
Thyroid	37	0.0	0.0	0.0	2.2	4.8	4.0	6.1	4.3	7.0	6.2	8.4	8.2	4.5	7.0	9.7	7.9	4.8	3.8	C73
Adrenal gland	1	0.8	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	0.1	C74
Other endocrine	1	0.0	0.0	0.0	0.5	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.1	0.1	C75
Hodgkin disease	4	0.0	0.7	0.6	0.5	0.0	0.7	0.6	0.0	0.4	0.0	0.6	1.0	1.1	1.2	1.4	0.0	0.5	0.5	C81
Non-Hodgkin lymphoma	54	0.0	0.0	0.0	1.6	3.8	4.6	4.3	3.8	3.7	6.6	16.8	23.5	20.5	9.3	13.9	30.4	7.0	5.7	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	6	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.5	1.9	6.1	3.4	1.2	0.0	5.3	0.8	0.7	C90
Lymphoid leukemia	8	4.2	2.1	0.6	1.1	2.1	0.0	0.6	0.5	0.0	0.9	0.0	2.0	0.0	0.0	2.8	1.3	1.0	1.3	C91
Myeloid leukemia	22	2.5	2.7	2.5	0.5	1.6	2.6	3.0	0.5	2.1	4.3	3.9	3.1	3.4	3.5	9.7	7.9	2.9	2.7	C92-94
Leukemia unspecified	2	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	2.3	2.8	2.6	0.3	0.2	C95
Other and unspecified	59	0.8	0.0	0.6	0.0	0.5	3.3	1.8	2.9	3.7	6.6	12.3	14.3	18.2	23.3	30.5	60.7	7.6	5.8	O&U
All sites	**1,671**	**13.5**	**7.5**	**9.5**	**12.5**	**24.1**	**49.0**	**76.8**	**110.8**	**176.5**	**273.3**	**477.0**	**651.2**	**470.6**	**503.3**	**662.8**	**1012.3**	**213.9**	**165.8**	**ALL**

Table 3.1.3 Annual incidence, Chiang Mai, 2008

Site	Male						Female						ICD-10
	No. Cases Year	Freq. (%)	Crude rate	ASR world	Com. 0-64	Rate. 0-74	No. Cases Year	Freq. (%)	Crude rate	ASR world	Com. 0-64	Rate. 0-74	
			(per 100,000)		(percent)				(per 100,000)		(percent)		
Lip	2	0.1	0.2	0.2	0.0	0.0	3	0.2	0.3	0.2	0.0	0.0	C00
Tongue	12	0.8	1.6	1.2	0.1	0.1	4	0.2	0.5	0.4	0.0	0.0	C01-02
Mouth	12	0.8	1.5	1.2	0.1	0.1	10	0.6	1.3	1.0	0.1	0.1	C03-06
Salivary glands	4	0.3	0.5	0.4	0.0	0.0	6	0.3	0.7	0.6	0.0	0.1	C07-08
Tonsil	5	0.4	0.7	0.5	0.0	0.1	2	0.1	0.3	0.2	0.0	0.0	C09
Other oropharynx	3	0.2	0.3	0.3	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C10
Nasopharynx	26	1.8	3.4	2.8	0.2	0.3	12	0.7	1.5	1.2	0.1	0.1	C11
Hypopharynx	5	0.3	0.7	0.5	0.0	0.0	2	0.1	0.3	0.2	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	0.0	C14
Esophagus	17	1.2	2.3	1.8	0.1	0.2	6	0.4	0.8	0.6	0.0	0.1	C15
Stomach	56	3.9	7.4	5.9	0.3	0.7	39	2.4	5.0	3.7	0.2	0.4	C16
Small intestine	5	0.3	0.7	0.5	0.0	0.1	3	0.2	0.4	0.3	0.0	0.0	C17
Colon	71	5.0	9.3	7.5	0.5	0.8	69	4.1	8.9	6.8	0.5	0.7	C18
Rectum	68	4.8	8.9	7.1	0.4	0.8	56	3.3	7.1	5.3	0.3	0.5	C19-20
Anus	2	0.1	0.3	0.2	0.0	0.0	5	0.3	0.6	0.5	0.0	0.1	C21
Liver and bile duct	298	20.8	39.0	31.4	2.3	3.5	130	7.8	16.6	12.9	0.8	1.5	C22,C24
Gallbladder	12	0.8	1.6	1.2	0.1	0.1	13	0.8	1.6	1.2	0.0	0.1	C23
Pancreas	25	1.8	3.3	2.6	0.1	0.3	22	1.3	2.9	2.1	0.1	0.3	C25
Nose, sinuses etc.	4	0.3	0.5	0.4	0.0	0.1	4	0.2	0.5	0.3	0.0	0.0	C30-31
Larynx	19	1.4	2.5	2.1	0.2	0.2	6	0.3	0.7	0.6	0.0	0.1	C32
Trachea, Bronchus, and lung	320	22.3	41.8	33.5	1.8	4.1	243	14.6	31.1	23.6	1.2	2.8	C33-34
Other thoracic organs	4	0.3	0.5	0.6	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C37-38
Bone	8	0.6	1.0	1.0	0.1	0.1	4	0.2	0.5	0.4	0.0	0.0	C40-C41
Melanoma of skin	7	0.5	0.9	0.7	0.0	0.1	6	0.4	0.8	0.6	0.0	0.0	C43
Other skin	55	3.8	7.2	5.6	0.3	0.6	57	3.4	7.3	5.3	0.3	0.5	C44
Mesothelioma	0	0.0	0.0	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi 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	7	0.5	0.9	0.7	0.1	0.1	7	0.4	0.9	0.8	0.1	0.1	C47,C49
Breast	4	0.3	0.6	0.4	0.0	0.0	319	19.1	40.9	31.1	2.7	3.2	C50
Vulva							7	0.4	0.9	0.7	0.1	0.1	C51
Vagina							3	0.2	0.4	0.4	0.0	0.0	C52
Cervix uteri							264	15.8	33.8	25.5	2.2	2.6	C53
Corpus uteri							48	2.9	6.2	5.0	0.5	0.6	C54
Uterus unspecified							1	0.1	0.1	0.1	0.0	0.0	C55
Ovary							66	4.0	8.5	6.9	0.6	0.7	C56
Other female genital							2	0.1	0.2	0.2	0.0	0.0	C57
Placenta							2	0.1	0.3	0.2	0.0	0.0	C58
Penis	10	0.7	1.3	1.0	0.1	0.1							C60
Prostate	65	4.5	8.5	6.7	0.3	0.8							C61
Testis	5	0.3	0.7	0.5	0.0	0.0							C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0							C63
Kidney	19	1.3	2.5	2.1	0.1	0.2	8	0.5	1.1	0.9	0.0	0.1	C64
Renal pelvis	2	0.1	0.3	0.2	0.0	0.0	2	0.1	0.2	0.2	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	63	4.4	8.2	6.4	0.3	0.7	22	1.3	2.9	2.1	0.1	0.2	C67
Other urinary organs	0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.1	0.1	0.0	0.0	C68
Eye	4	0.3	0.5	0.6	0.0	0.0	3	0.2	0.4	0.5	0.0	0.0	C69
Brain, nervous system	20	1.4	2.7	2.6	0.2	0.2	13	0.8	1.7	1.5	0.1	0.1	C70-72
Thyroid	8	0.5	1.0	0.8	0.1	0.1	37	2.2	4.8	3.8	0.3	0.4	C73
Adrenal gland	1	0.1	0.2	0.3	0.0	0.0	1	0.0	0.1	0.1	0.0	0.0	C74
Other endocrine	1	0.1	0.1	0.1	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C75
Hodgkin disease	5	0.3	0.6	0.6	0.0	0.0	4	0.2	0.5	0.5	0.0	0.0	C81
Non-Hodgkin lymphoma	66	4.6	8.7	7.1	0.4	0.7	54	3.3	7.0	5.7	0.4	0.6	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	10	0.7	1.3	1.0	0.1	0.1	6	0.4	0.8	0.7	0.1	0.1	C90
Lymphoid leukemia	11	0.7	1.4	1.6	0.1	0.1	8	0.5	1.0	1.3	0.1	0.1	C91
Myeloid leukemia	22	1.6	2.9	2.7	0.2	0.2	22	1.3	2.9	2.7	0.2	0.2	C92-94
Leukemia unspecified	1	0.0	0.1	0.1	0.0	0.0	2	0.1	0.3	0.2	0.0	0.0	C95
Other and unspecified	65	4.5	8.5	6.9	0.4	0.8	59	3.5	7.6	5.8	0.3	0.6	O&U
All sites	**1,431**	**100.0**	**187.4**	**152.0**	**9.2**	**16.7**	**1,671**	**100.0**	**213.9**	**165.8**	**11.8**	**17.6**	**ALL**

Table 3.1.4 Percentage of morphologically verified and death certificate only cases, Chiang Mai, 2008

Site	Male			Female			ICD-10
	Cases 3 Years	%MV	%DCO	Cases 3 Years	%MV	%DCO	
Oral cavity	87	94.3	0.0	68	94.1	2.9	C00-C08
Oropharynx, etc	26	92.3	0.0	11	90.9	9.1	C09-C10,C14
Nasopharynx	77	96.1	1.3	35	100.0	0.0	C11
Hypopharynx	15	93.3	0.0	7	100.0	0.0	C12-C13
Oesophagus	52	82.7	1.9	19	68.4	10.5	C15
Stomach	169	88.2	0.0	118	84.7	2.5	C16
Small intestine	15	80.0	0.0	9	88.9	0.0	C17
Colon and rectum	425	88.9	1.2	389	90.0	1.5	C18-C21
Liver and bile duct	893	18.8	4.6	389	23.9	8.0	C22,C24
Gallbladder	36	36.1	2.8	38	50.0	0.0	C23
Pancreas	76	23.7	2.6	67	29.9	3.0	C25
Nose, sinuses etc	11	100.0	0.0	11	100.0	0.0	C30-C31
Larynx	58	96.6	0.0	17	82.4	0.0	C32
Bronchus, lung	959	61.5	3.1	730	53.2	5.2	C33-C34
Other thoracic organs	12	83.3	0.0	3	100.0	0.0	C37-C38
Bone	24	87.5	4.2	12	83.3	0.0	C40-C41
Melanoma of skin	20	100.0	0.0	19	100.0	0.0	C43
Other skin	164	99.4	0.6	171	98.2	0.6	C44
Mesothelioma	1	100.0	0.0	1	100.0	0.0	C45
Kaposi sarcoma	4	100.0	0.0	1	100.0	0.0	C46
Connective and soft tissue	20	85.0	10.0	21	90.5	0.0	C47,C49
Breast	13	100.0	0.0	958	98.0	0.6	C50
Vulva				22	100.0	0.0	C51
Vagina				10	90.0	0.0	C52
Cervix uteri				792	97.3	0.5	C53
Corpus uteri				145	98.6	0.0	C54
Uterus unspecified				3	66.7	0.0	C55
Ovary				199	95.5	1.0	C56
Other female genital				5	100.0	0.0	C57
Placenta				6	100.0	0.0	C58
Penis	29	100.0	0.0				C60
Prostate	194	87.1	0.0				C61
Testis	15	93.3	0.0				C62
Other male genital organs	1	100.0	0.0				C63
Kidney	57	70.2	0.0	25	64.0	0.0	C64
Renal pelvis	6	100.0	0.0	5	100.0	0.0	C65
Ureter	5	60.0	0.0	4	100.0	0.0	C66
Bladder	188	89.4	0.0	67	88.1	0.0	C67
Other urinary organs	1	100.0	0.0	2	100.0	0.0	C68
Eye	12	83.3	0.0	10	100.0	0.0	C69
Brain, nervous system	61	49.2	0.0	40	40.0	2.5	C70-72
Thyroid	23	91.3	0.0	112	94.6	0.0	C73
Adrenal gland	4	100.0	0.0	2	0.0	0.0	C74
Other endocrine	3	100.0	0.0	3	100.0	0.0	C75
Hodgkin's disease	14	100.0	0.0	11	100.0	0.0	C81
Non-Hodgkin lymph	199	100.0	0.0	163	100.0	0.0	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	30	100.0	0.0	19	100.0	0.0	C90
Leukemia	101	100.0	0.0	98	99.0	0.0	C91-C95
Other and unspecified	194	53.6	13.4	177	53.7	15.3	O&U
All sites	**4,294**	**65.9**	**2.6**	**5,014**	**80.7**	**2.5**	**ALL**

Lampang Cancer Registry

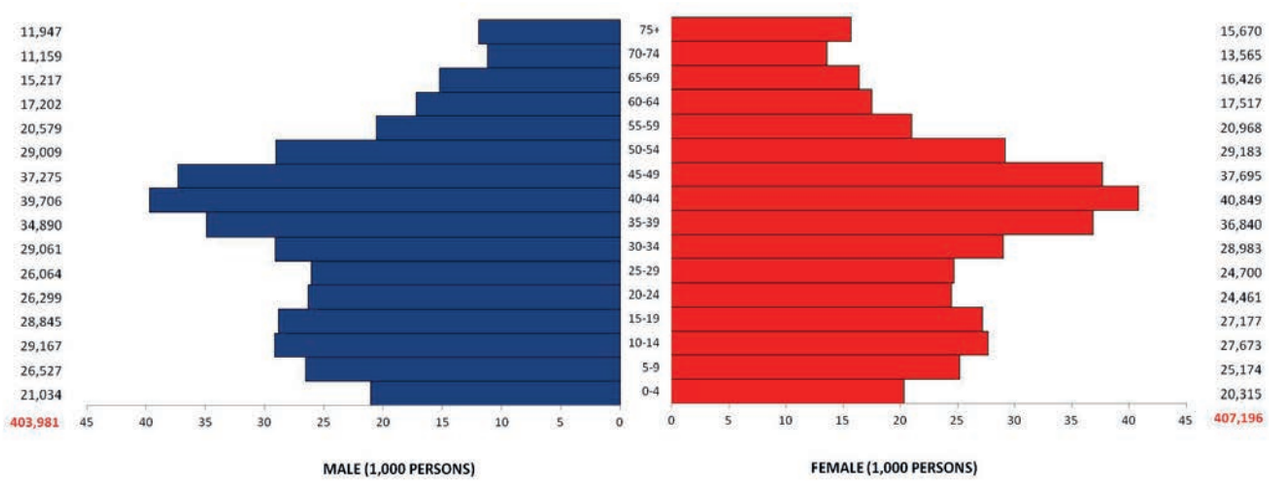
Registration area

Lampang is one of the 17 provinces of the Northern region of Thailand, located at latitude 17-19°N and longitude 98-100°E. It is 268.8 meters above sea level with a land area of 12,534 km2. 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, 2008



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 center (Lampang Cancer Center). 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 center and Lampang provincial hospital. Radiation therapy is available only in Lampang Cancer Center, where there were two simulators, two cobalt-60 machines, one linear accelerator, one dual energy linear accelerator with multi leaf collimator, one High Dose Rate machine and two Low Dose Rate machines for brachytherapy. All hospitals in the province provide palliative care. However, some patients are referred to the National Cancer Institute, and university hospitals in Chiang Mai and Bangkok. The ratio of doctors to population is 1:2,925. The ratio of registered nurses to population is 1:538. (Ministry of Public Health, 2007)

Registry procedures

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

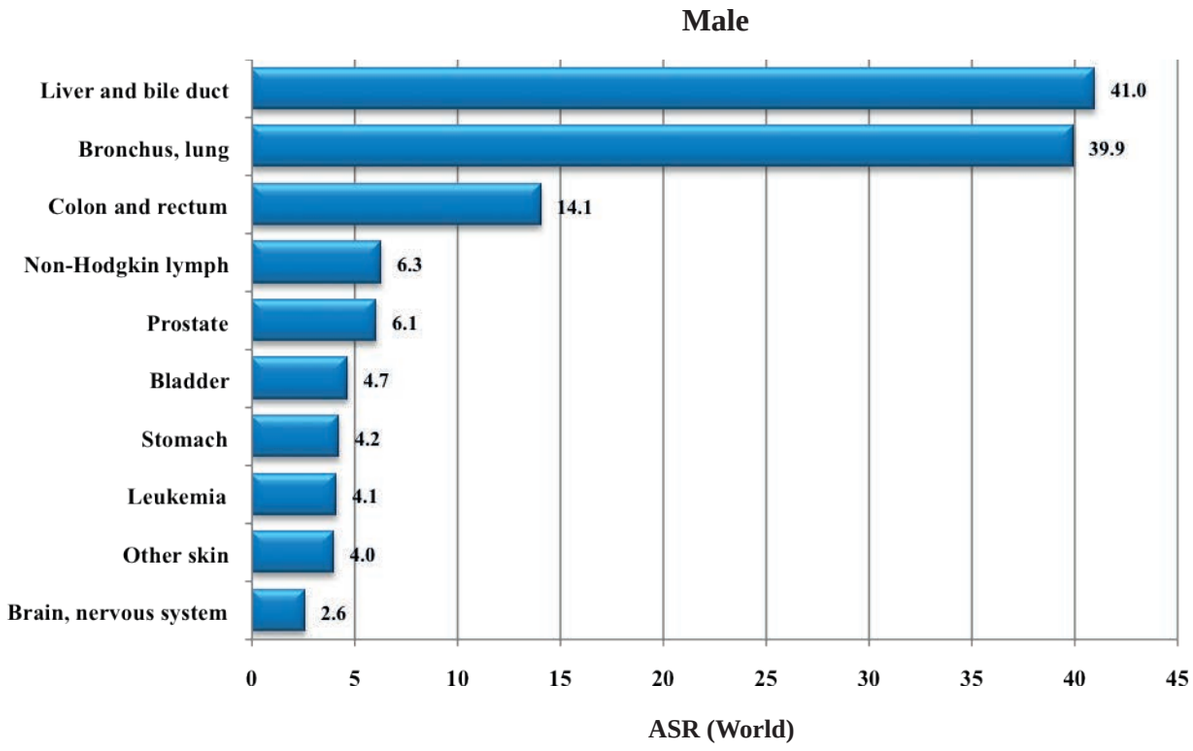
Data collected consists of: registry number, name, residential address, date of birth, age, sex, date of diagnosis, site of cancer, histology of cancer, staging, extension of disease, method of diagnosis, treatment, date of last contact and vital status of cancer patients. The primary site and histology are coded according to ICD-O 3rd edition (Fritz et al., 2000). Second primary cancers are also registered by the multiple primary rule (IARC, 2004). Death certificates are obtained from Bureau of Policy and Strategy, Ministry of Public Health. Follow-up of all registered cases is carried out by passive methods linked to the database of the National Health Security office.

The computed data forms are checked and extended into data base files, using the CanReg 4 program for data entry and analysis.

Summary of results

New cases registered in 2008, 847 were males and 823 were females, making 1,670 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males is 160.4 per 100,000 with liver and bile duct cancer ranking first (ASR = 41.0) followed by lung cancer (ASR = 39.9) and colon and rectum (ASR = 14.1). The ASR of all cancer sites in females was 142.4 per 100,000, the three leading cancer being breast cancer (ASR = 25.9), lung (ASR = 21.2), liver and bile duct (ASR = 15.3).

Figure 3.2 Leading cancer in Lampang, 2008



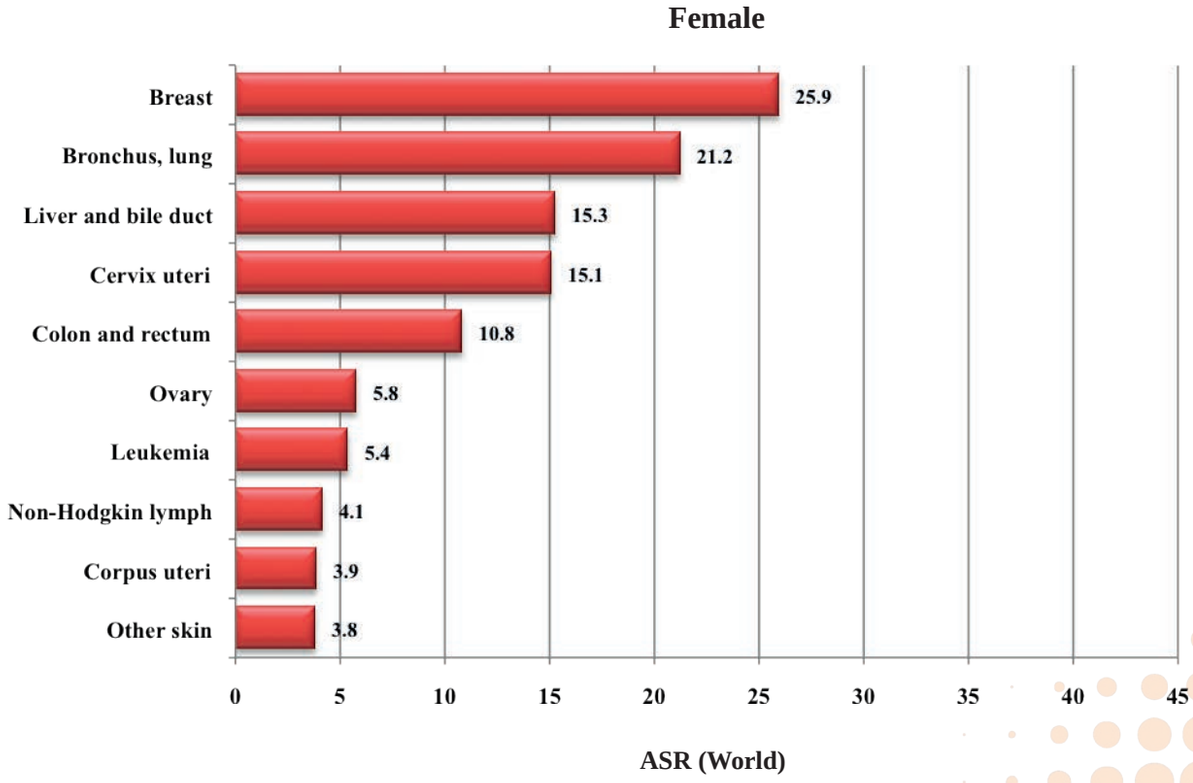


Table 3.2.1 Lampang (2008), Annual Incidence per 100,000 by Age Group (years) –Male

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	1.6	0.0	0.0	0.0	5.6	0.2	0.2	C00
Tongue	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	2.3	8.1	0.0	6.6	3.0	8.4	1.3	1.0	C01-02
Mouth	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.8	0.0	3.2	5.8	6.6	6.0	11.2	1.5	1.1	C03-06
Salivary glands	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	1.9	2.2	0.0	2.8	0.3	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	1.6	0.0	0.0	0.0	8.4	0.3	0.2	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	12	0.0	0.0	0.0	0.0	2.5	0.0	0.0	3.8	1.7	4.5	8.0	9.7	11.6	2.2	3.0	5.6	3.0	2.3	C11
Hypopharynx	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.8	0.0	3.2	1.9	4.4	6.0	0.0	0.8	0.6	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	3.0	0.0	0.1	0.1	C14
Esophagus	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.8	2.7	3.4	9.7	0.0	4.4	9.0	14.0	2.0	1.4	C15
Stomach	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.8	4.5	16.1	13.0	19.4	15.3	20.9	44.6	5.7	4.2	C16
Small intestine	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	1.9	4.4	6.0	2.8	0.5	0.4	C17
Colon	44	0.0	0.0	0.0	4.6	0.0	5.1	1.1	8.6	6.7	12.5	16.1	17.8	19.4	46.0	50.8	53.0	10.9	8.3	C18
Rectum	30	0.0	0.0	0.0	1.2	2.5	0.0	1.1	1.9	3.4	5.4	8.0	13.0	25.2	26.3	38.8	55.8	7.3	5.6	C19-20
Anus	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	1.9	0.0	0.0	0.0	0.2	0.1	C21
Liver and bile duct	221	3.2	1.3	0.0	1.2	1.3	7.7	8.0	15.3	36.9	64.4	131.0	132.8	147.3	153.3	221.0	270.6	54.7	41.0	C22,C24
Gallbladder	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	1.9	8.8	11.9	27.9	2.1	1.5	C23
Pancreas	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.7	1.8	6.9	6.5	5.8	17.5	14.9	11.2	3.0	2.2	C25
Nose, sinuses etc.	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	1.9	0.0	0.0	2.8	0.2	0.2	C30-31
Larynx	10	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.0	0.8	0.9	2.3	6.5	3.9	13.1	3.0	30.7	2.5	1.9	C32
Trachea, Bronchus, and lung	214	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	11.8	20.6	58.6	93.9	170.5	245.3	409.2	435.3	53.1	39.9	C33-34
Other thoracic organs	1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.2	0.1	C37-38
Bone	2	0.0	0.0	1.1	3.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.6	0.6	C40-C41
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	1.6	0.0	2.2	6.0	2.8	0.5	0.4	C43
Other skin	22	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0	2.5	1.8	5.7	8.1	17.4	17.5	35.8	53.0	5.4	4.0	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 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	7	1.6	0.0	0.0	1.2	0.0	1.3	2.3	1.0	0.8	0.0	3.4	3.2	5.8	0.0	3.0	11.2	1.7	1.5	C47,C49
Breast	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.1	1.6	0.0	4.4	0.0	5.6	0.6	0.4	C50
Penis	5	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0	0.8	2.7	1.1	6.5	1.9	2.2	3.0	5.6	1.3	1.0	C60
Prostate	34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	4.9	15.5	28.5	77.7	136.7	8.3	6.1	C61
Testis	2	1.6	0.0	1.1	0.0	0.0	1.3	0.0	0.0	0.8	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.4	0.5	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	9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.6	2.3	9.7	3.9	6.6	14.9	5.6	2.3	1.8	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	3.9	4.4	6.0	2.8	0.6	0.5	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	1.9	2.2	0.0	2.8	0.2	0.2	C66
Bladder	26	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	3.4	6.3	4.6	8.1	11.6	30.7	41.8	58.6	6.4	4.7	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	3.0	0.0	0.1	0.1	C68
Eye	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	0.0	0.0	0.0	0.0	0.0	2.8	0.2	0.2	C69
Brain, nervous system	10	4.8	5.0	0.0	2.3	0.0	1.3	2.3	0.0	1.7	2.7	2.3	4.9	0.0	11.0	3.0	5.6	2.5	2.6	C70-72
Thyroid	3	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	1.1	0.0	7.8	0.0	0.0	5.6	0.7	0.6	C73
Adrenal gland	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	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	2	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.8	0.9	0.0	1.6	0.0	0.0	0.0	5.6	0.5	0.4	C81
Non-Hodgkin lymphoma	31	1.6	0.0	3.4	4.6	6.3	2.6	1.1	2.9	4.2	7.2	6.9	14.6	15.5	21.9	26.9	50.2	7.6	6.3	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	1.1	4.9	1.9	4.4	9.0	22.3	1.7	1.2	C90
Lymphoid leukemia	4	4.8	3.8	2.3	1.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	2.2	0.0	0.0	1.1	1.6	C91
Myeloid leukemia	9	1.6	1.3	2.3	0.0	1.3	0.0	0.0	1.0	0.8	0.9	2.3	6.5	3.9	2.2	17.9	11.2	2.2	2.0	C92-94
Leukemia unspecified	2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.8	1.1	0.0	3.9	0.0	0.0	0.0	0.6	0.6	C95
Other and unspecified	58	0.0	0.0	0.0	1.2	1.3	1.3	1.1	2.9	5.0	12.5	25.3	35.6	32.9	50.4	80.7	103.2	14.4	10.8	O&U
All sites	**847**	**22.2**	**11.3**	**10.3**	**20.8**	**21.5**	**23.0**	**22.9**	**49.7**	**94.0**	**171.7**	**313.7**	**435.7**	**550.3**	**747.0**	**1135.1**	**1487.1**	**209.7**	**160.4**	**ALL**

Table 3.2.2 Lampang (2008), Annual Incidence per 100,000 by Age Group (years) –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	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.9	0.0	2.5	4.3	0.4	0.3	C00
Tongue	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	1.6	0.0	2.0	0.0	6.4	0.5	0.3	C01-02
Mouth	6	0.0	0.0	0.0	0.0	1.4	0.0	1.2	0.0	0.8	0.9	1.1	0.0	0.0	4.1	7.4	14.9	1.4	0.9	C03-06
Salivary glands	1	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	1.1	3.2	0.0	0.0	0.0	0.0	0.3	0.3	C07-08
Tonsil	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.1	0.0	0.0	0.0	0.0	2.1	0.2	0.2	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	6	0.0	0.0	0.0	1.2	2.7	0.0	0.0	0.9	1.6	0.0	2.3	1.6	3.8	4.1	9.8	2.1	1.5	1.2	C11
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	0.0	0.0	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	0.0	0.0	0.0	C14
Esophagus	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.9	1.1	1.6	1.9	0.0	0.0	10.6	0.8	0.5	C15
Stomach	18	0.0	0.0	0.0	0.0	0.0	1.3	2.3	1.8	5.7	3.5	5.7	11.1	3.8	10.1	17.2	25.5	4.4	3.0	C16
Small intestine	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.6	0.0	4.1	0.0	4.3	0.5	0.3	C17
Colon	39	0.0	0.0	0.0	0.0	1.4	2.7	1.2	1.8	6.5	8.8	19.4	28.6	19.0	22.3	41.8	40.4	9.5	6.6	C18
Rectum	23	0.0	0.0	0.0	0.0	1.4	0.0	2.3	1.8	4.1	7.1	12.6	14.3	15.2	10.1	22.1	19.1	5.6	4.0	C19-20
Anus	2	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	4.9	4.3	0.4	0.2	C21
Liver and bile duct	93	1.6	0.0	0.0	0.0	0.0	0.0	4.6	3.6	11.4	15.0	25.1	52.5	53.3	69.0	113.0	159.5	22.8	15.3	C22,C24
Gallbladder	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.6	7.6	14.2	22.1	42.5	3.5	2.2	C23
Pancreas	15	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.6	0.9	4.6	12.7	7.6	10.1	17.2	25.5	3.6	2.4	C25
Nose, sinuses etc.	1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.9	1.1	1.6	0.0	0.0	0.0	0.0	0.3	0.2	C30-31
Larynx	3	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	2.0	7.4	6.4	0.7	0.5	C32
Trachea, Bronchus, and lung	126	0.0	0.0	0.0	0.0	0.0	0.0	3.5	4.5	4.1	18.6	36.6	84.3	85.6	136.0	164.6	170.2	30.9	21.2	C33-34
Other thoracic organs	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	0.0	0.0	0.1	0.1	C37-38
Bone	3	0.0	0.0	1.2	0.0	0.0	1.3	1.2	0.0	0.0	0.0	1.1	0.0	1.9	0.0	2.5	4.3	0.7	0.6	C40-C41
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.8	0.0	0.0	3.2	0.0	0.0	2.5	2.1	0.5	0.3	C43
Other skin	24	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.8	1.6	8.8	9.1	7.9	7.6	8.1	41.8	38.3	5.9	3.8	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	2.0	0.0	0.0	0.1	0.1	C45
Kaposi sarcoma	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	0.0	0.0	0.1	0.1	C46
Connective tissue	1	1.6	0.0	0.0	1.2	0.0	0.0	0.0	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	C47,C49
Breast	150	0.0	0.0	0.0	2.5	1.4	6.7	13.8	30.8	57.9	77.8	80.0	89.0	66.6	69.0	51.6	46.8	36.9	25.9	C50
Vulva	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	1.1	0.0	1.9	2.0	2.5	8.5	0.7	0.5	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	1.9	0.0	0.0	0.0	0.1	0.1	C52
Cervix uteri	89	0.0	0.0	0.0	0.0	0.0	0.0	16.1	25.3	31.0	46.9	43.4	52.5	34.3	32.5	24.6	40.4	21.9	15.1	C53
Corpus uteri	22	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	2.4	9.7	14.8	17.5	15.2	18.3	17.2	6.4	5.4	3.9	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	31	1.6	0.0	1.2	2.5	1.4	6.7	2.3	4.5	7.3	12.4	16.0	11.1	15.2	14.2	17.2	19.1	7.5	5.8	C56
Other female genital	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	1.9	0.0	0.0	0.0	0.2	0.1	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
Kidney	3	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.9	0.0	1.6	3.8	2.0	0.0	0.0	0.7	0.6	C64
Renal pelvis	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.9	1.1	0.0	3.8	2.0	0.0	2.1	0.6	0.4	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	2.1	0.1	0.0	C66
Bladder	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	1.1	3.2	7.6	12.2	12.3	23.4	2.7	1.8	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	1.1	0.0	0.0	2.0	0.0	0.0	0.2	0.1	C68
Eye	1	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	2.5	0.0	0.2	0.1	C69
Brain, nervous system	8	0.0	2.6	0.0	0.0	0.0	2.7	1.2	0.9	0.0	2.7	6.9	0.0	9.5	2.0	4.9	4.3	2.0	1.7	C70-72
Thyroid	16	0.0	0.0	1.2	2.5	5.5	0.0	5.8	2.7	4.9	3.5	5.7	12.7	3.8	4.1	12.3	4.3	4.0	3.2	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	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C75
Hodgkin disease	1	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.8	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.2	0.2	C81
Non-Hodgkin lymphoma	23	0.0	0.0	2.4	1.2	2.7	1.3	3.5	2.7	4.9	1.8	10.3	17.5	5.7	14.2	17.2	25.5	5.6	4.1	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	6	0.0	0.0	0.0	1.2	0.0	0.0	0.0	1.8	0.0	0.9	2.3	3.2	3.8	4.1	7.4	8.5	1.6	1.1	C90
Lymphoid leukemia	5	3.3	4.0	2.4	3.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	4.9	2.1	1.2	1.7	C91
Myeloid leukemia	13	3.3	0.0	2.4	1.2	0.0	1.3	3.5	0.0	2.4	4.4	3.4	4.8	1.9	8.1	17.2	8.5	3.2	2.6	C92-94
Leukemia unspecified	5	1.6	0.0	1.2	1.2	0.0	1.3	2.3	0.0	0.0	4.4	1.1	0.0	0.0	0.0	0.0	4.3	1.1	1.1	C95
Other and unspecified	44	0.0	0.0	0.0	0.0	1.4	0.0	2.3	3.6	4.9	7.1	12.6	28.6	20.9	38.6	39.3	78.7	10.9	7.3	O&U
All sites	**823**	**13.1**	**7.9**	**12.0**	**19.6**	**21.8**	**28.3**	**72.5**	**94.1**	**157.5**	**245.8**	**331.2**	**470.6**	**409.1**	**523.6**	**707.7**	**867.9**	**202.2**	**142.4**	**ALL**

Table 3.2.3 Annual incidence, Lampang, 2008

Site	Male						Female						ICD-10
	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	
Lip	1	0.1	0.2	0.2	0.0	0.0	2	0.2	0.4	0.3	0.0	0.0	C00
Tongue	5	0.6	1.3	1.0	0.1	0.1	2	0.2	0.5	0.3	0.0	0.0	C01-02
Mouth	6	0.7	1.5	1.1	0.1	0.1	6	0.7	1.4	0.9	0.0	0.1	C03-06
Salivary glands	1	0.2	0.3	0.3	0.0	0.0	1	0.2	0.3	0.3	0.0	0.0	C07-08
Tonsil	1	0.2	0.3	0.2	0.0	0.0	1	0.1	0.2	0.2	0.0	0.0	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	C10
Nasopharynx	12	1.4	3.0	2.3	0.2	0.2	6	0.7	1.5	1.2	0.1	0.1	C11
Hypopharynx	3	0.4	0.8	0.6	0.0	0.1	0	0.0	0.0	0.0	0.0	0.0	C12-13
Pharynx unspecified	0	0.0	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C14
Esophagus	8	0.9	2.0	1.4	0.1	0.2	3	0.4	0.8	0.5	0.0	0.0	C15
Stomach	23	2.7	5.7	4.2	0.3	0.5	18	2.2	4.4	3.0	0.2	0.3	C16
Small intestine	2	0.2	0.5	0.4	0.0	0.1	2	0.2	0.5	0.3	0.0	0.0	C17
Colon	44	5.2	10.9	8.3	0.5	0.9	39	4.7	9.5	6.6	0.4	0.8	C18
Rectum	30	3.5	7.3	5.6	0.3	0.6	23	2.8	5.6	4.0	0.3	0.5	C19-20
Anus	1	0.1	0.2	0.1	0.0	0.0	2	0.2	0.4	0.2	0.0	0.0	C21
Liver and bile duct	221	26.1	54.7	41.0	2.8	4.6	93	11.3	22.8	15.3	0.8	1.7	C22,C24
Gallbladder	8	1.0	2.1	1.5	0.0	0.1	14	1.7	3.5	2.2	0.1	0.2	C23
Pancreas	12	1.4	3.0	2.2	0.1	0.3	15	1.8	3.6	2.4	0.1	0.3	C25
Nose, sinuses etc.	1	0.1	0.2	0.2	0.0	0.0	1	0.2	0.3	0.2	0.0	0.0	C30-31
Larynx	10	1.2	2.5	1.9	0.1	0.2	3	0.4	0.7	0.5	0.0	0.1	C32
Trachea, Bronchus, and lung	214	25.3	53.1	39.9	1.8	5.1	126	15.3	30.9	21.2	1.2	2.7	C33-34
Other thoracic organs	1	0.1	0.2	0.1	0.0	0.0	0	0.0	0.1	0.1	0.0	0.0	C37-38
Bone	2	0.3	0.6	0.6	0.0	0.0	3	0.3	0.7	0.6	0.0	0.0	C40-C41
Melanoma of skin	2	0.2	0.5	0.4	0.0	0.1	2	0.2	0.5	0.3	0.0	0.0	C43
Other skin	22	2.6	5.4	4.0	0.2	0.5	24	2.9	5.9	3.8	0.2	0.4	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 sarcoma	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.1	0.0	0.0	C46
Connective tissue	7	0.8	1.7	1.5	0.1	0.1	1	0.2	0.3	0.4	0.0	0.0	C47,C49
Breast	2	0.3	0.6	0.4	0.0	0.0	150	18.3	36.9	25.9	2.1	2.7	C50
Vulva							3	0.4	0.7	0.5	0.0	0.0	C51
Vagina							0	0.0	0.1	0.1	0.0	0.0	C52
Cervix uteri							89	10.8	21.9	15.1	1.2	1.5	C53
Corpus uteri							22	2.7	5.4	3.9	0.3	0.5	C54
Uterus unspecified							0	0.0	0.0	0.0	0.0	0.0	C55
Ovary							31	3.7	7.5	5.8	0.4	0.6	C56
Other female genital							1	0.1	0.2	0.1	0.0	0.0	C57
Placenta							0	0.0	0.0	0.0	0.0	0.0	C58
Penis	5	0.6	1.3	1.0	0.1	0.1							C60
Prostate	34	4.0	8.3	6.1	0.1	0.6							C61
Testis	2	0.2	0.4	0.5	0.0	0.0							C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0							C63
Kidney	9	1.1	2.3	1.8	0.1	0.2	3	0.3	0.7	0.6	0.0	0.1	C64
Renal pelvis	2	0.3	0.6	0.5	0.0	0.1	2	0.3	0.6	0.4	0.0	0.0	C65
Ureter	1	0.1	0.2	0.2	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C66
Bladder	26	3.0	6.4	4.7	0.2	0.5	11	1.3	2.7	1.8	0.1	0.2	C67
Other urinary organs	0	0.0	0.1	0.1	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C68
Eye	1	0.1	0.2	0.2	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C69
Brain, nervous system	10	1.2	2.5	2.6	0.1	0.2	8	1.0	2.0	1.7	0.1	0.2	C70-72
Thyroid	3	0.3	0.7	0.6	0.1	0.1	16	2.0	4.0	3.2	0.2	0.3	C73
Adrenal gland	0	0.0	0.1	0.1	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	0.1	0.1	0.0	0.0	C75
Hodgkin disease	2	0.2	0.5	0.4	0.0	0.0	1	0.1	0.2	0.2	0.0	0.0	C81
Non-Hodgkin lymphoma	31	3.6	7.6	6.3	0.4	0.6	23	2.8	5.6	4.1	0.3	0.4	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	7	0.8	1.7	1.2	0.0	0.1	6	0.8	1.6	1.1	0.1	0.1	C90
Lymphoid leukemia	4	0.5	1.1	1.6	0.1	0.1	5	0.6	1.2	1.7	0.1	0.1	C91
Myeloid leukemia	9	1.1	2.2	2.0	0.1	0.2	13	1.6	3.2	2.6	0.1	0.3	C92-94
Leukemia unspecified	2	0.3	0.6	0.6	0.0	0.0	5	0.6	1.1	1.1	0.1	0.1	C95
Other and unspecified	58	6.9	14.4	10.8	0.6	1.3	44	5.4	10.9	7.3	0.4	0.8	O&U
All sites	**847**	**100.0**	**209.7**	**160.4**	**8.7**	**18.1**	**823**	**100.0**	**202.2**	**142.4**	**9.4**	**15.6**	**ALL**

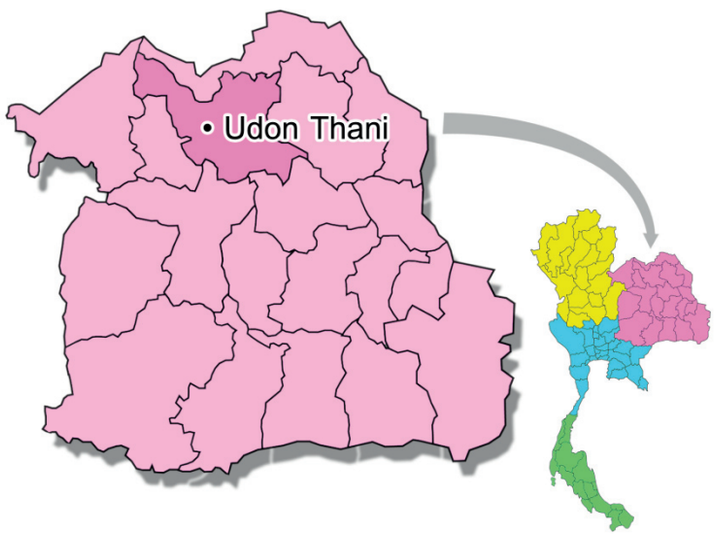
Table 3.2.4 Percentage of morphologically verified and death certificate only cases, Lampang, 2008

Site	Male			Female			ICD-10
	Cases 3 Years	%MV	%DCO	Cases 3 Years	%MV	%DCO	
Oral cavity	41	95.1	0.0	32	96.9	0.0	C00-C08
Oropharynx, etc	5	100.0	0.0	3	100.0	0.0	C09-C10,C14
Nasopharynx	36	94.4	0.0	18	100.0	0.0	C11
Hypopharynx	10	100.0	0.0	0	0.0	0.0	C12-C13
Oesophagus	24	91.7	0.0	10	70.0	0.0	C15
Stomach	69	81.2	1.4	54	87.0	3.7	C16
Small intestine	6	33.3	33.3	6	66.7	16.7	C17
Colon and rectum	223	83.9	3.1	190	87.9	3.2	C18-C21
Liver and bile duct	663	24.6	7.5	278	20.1	11.5	C22,C24
Gallbladder	25	40.0	4.0	43	51.2	0.0	C23
Pancreas	36	36.1	5.6	44	43.2	2.3	C25
Nose, sinuses etc	3	100.0	0.0	4	100.0	0.0	C30-C31
Larynx	30	90.0	0.0	9	66.7	11.1	C32
Bronchus, lung	643	69.5	6.8	378	64.6	6.1	C33-C34
Other thoracic organs	2	50.0	0.0	1	100.0	0.0	C37-C38
Bone	7	57.1	28.6	8	50.0	37.5	C40-C41
Melanoma of skin	6	100.0	0.0	6	100.0	0.0	C43
Other skin	65	96.9	0.0	72	97.2	1.4	C44
Mesothelioma	0	0.0	0.0	1	100.0	0.0	C45
Kaposi sarcoma	0	0.0	0.0	1	100.0	0.0	C46
Connective and soft tissue	20	85.0	0.0	4	100.0	0.0	C47,C49
Breast	7	85.7	0.0	451	94.2	0.9	C50
Vulva				9	77.8	0.0	C51
Vagina				1	100.0	0.0	C52
Cervix uteri				267	92.5	1.9	C53
Corpus uteri				66	90.9	3.0	C54
Uterus unspecified				0	0.0	0.0	C55
Ovary				92	88.0	0.0	C56
Other female genital				2	100.0	0.0	C57
Placenta				0	0.0	0.0	C58
Penis	16	100.0	0.0				C60
Prostate	101	88.1	4.0				C61
Testis	5	100.0	0.0				C62
Other male genital organs	0	0.0	0.0				C63
Kidney	28	75.0	0.0	8	87.5	12.5	C64
Renal pelvis	7	85.7	0.0	7	85.7	0.0	C65
Ureter	3	66.7	0.0	1	100.0	0.0	C66
Bladder	77	97.4	0.0	33	93.9	3.0	C67
Other urinary organs	1	100.0	0.0	2	50.0	50.0	C68
Eye	3	100.0	0.0	2	50.0	0.0	C69
Brain, nervous system	30	53.3	13.3	25	36.0	12.0	C70-72
Thyroid	8	87.5	0.0	49	91.8	0.0	C73
Adrenal gland	1	100.0	0.0	0	0.0	0.0	C74
Other endocrine	0	0.0	0.0	1	100.0	0.0	C75
Hodgkin's disease	6	100.0	0.0	3	100.0	0.0	C81
Non-Hodgkin lymph	92	100.0	0.0	69	100.0	0.0	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	20	100.0	0.0	19	100.0	0.0	C90
Leukemia	47	100.0	0.0	68	100.0	0.0	C91-C95
Other and unspecified	175	34.9	15.4	133	33.8	19.5	O&U
All sites	**2,541**	**62.3**	**5.7**	**2,470**	**74.7**	**4.6**	**ALL**

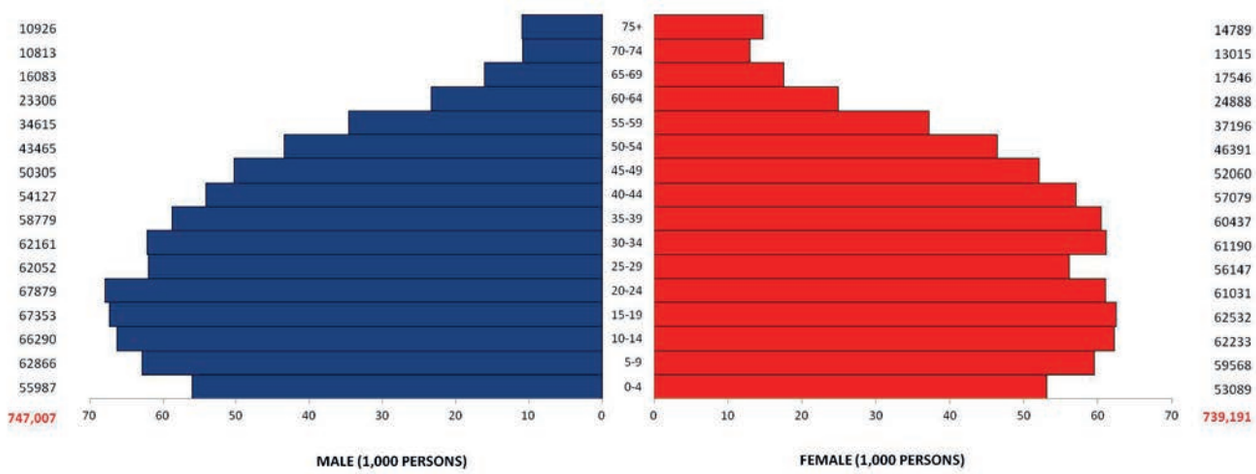
Udon Thani Cancer Registry

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 18 districts and 2 sub-districts. The estimated population in the year 2008 was 1,486,198. About 95% of the population are Buddhists. The remainder are mainly Christians and Moslems.



Population pyramid, Udon Thani, 2008



Cancer care facilities

Community hospitals are provided in all 18 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

Udon Thani cancer registry was established in 2002 at the Udon Thani regional cancer center, and is funded by the Thai National Cancer Institute. It provides treatment facilities, training and education for health personals in the upper northeastern part of Thailand. The registry unit has one part - time expert consultant (Dr. Hutcha Sriplung), a part - time doctor, 3 part - time nurses, one computer statistician and 2 full time clerks.

The data registry 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, CanReg4.

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.

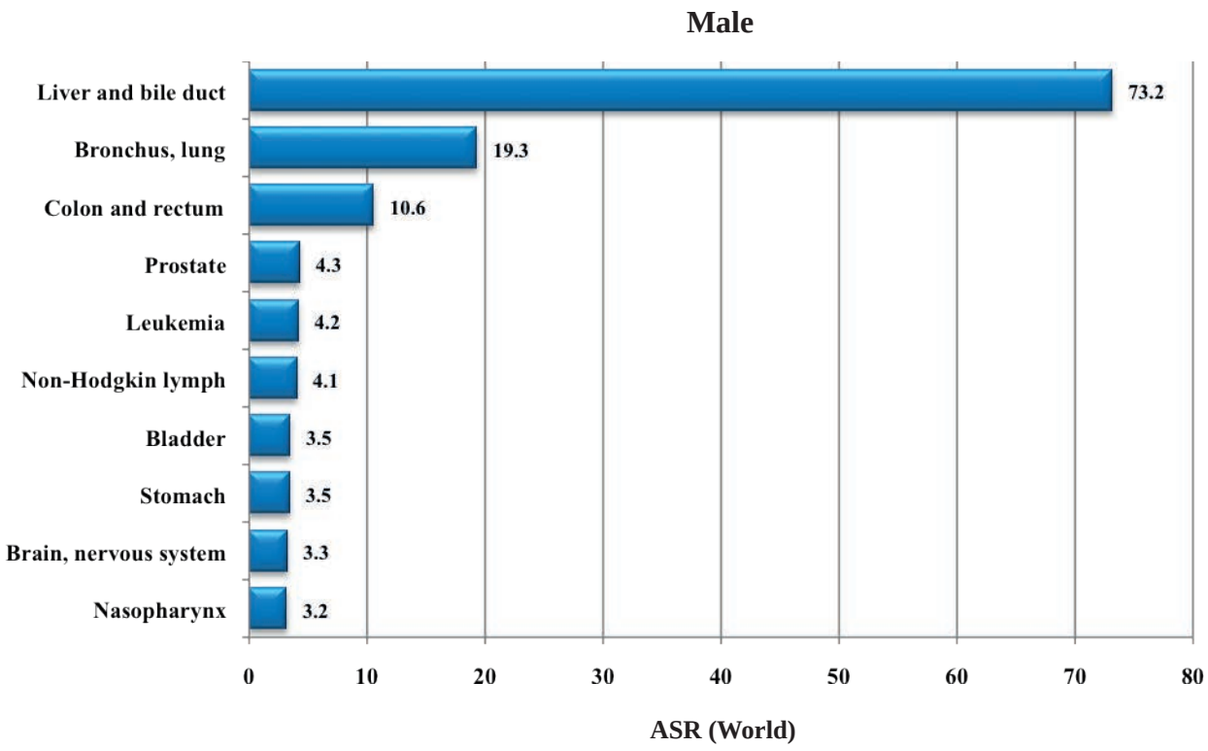
Summary of results

New cases registered in 2008, 1,065 were males and 1,105 were females, making 2,170 for both sexes. The age - standardized incidence rate (ASR) of all sites in males was 161.8 per 100,000, with liver and bile duct cancer ranking first (ASR = 73.2) followed by lung (ASR = 19.3) and colon and rectum (ASR = 10.6). The ASR of all sites in females was 143.3, the three leading cancers being liver and bile duct (ASR = 37.5), breast (ASR = 19.4) and cervix (ASR = 17.1).

Notification

The age-standardized incidence rate (ASR) of all site in male in this volume, ASR= 161.8 (2007-2009) was decreased compared to the last volume, ASR=198.3 (2004-2006). Particularly, for liver cancer the ASR was significantly dropped from 105.4 in the last volume to 73.2 in this volume. While the declined can not be entirely explained, it may in part be due to imprecisements in the validity of the liver cancer data: the MV% has increased from 9.5 % to 15.8 % over the two volumes and the DCO% has fallen from 15.8 % to 8.9 %.

Figure 3.3 Leading cancer in Udon Thani, 2008



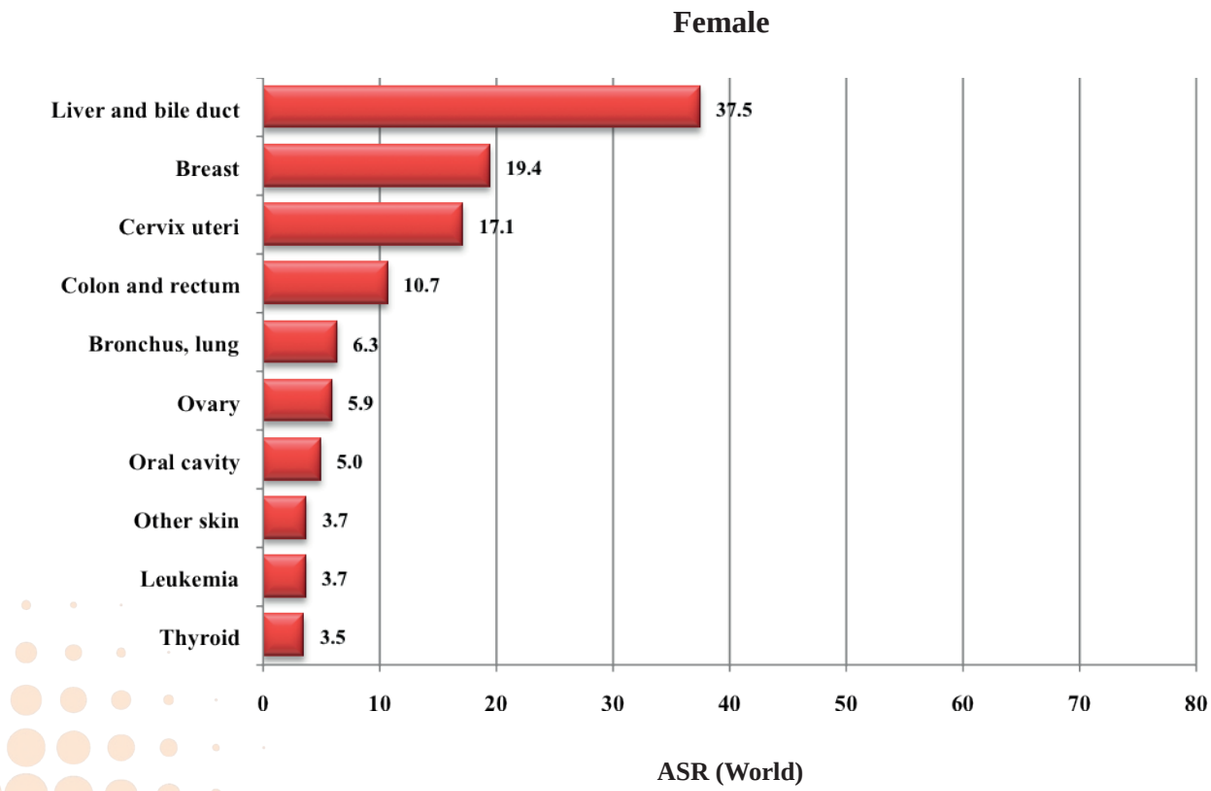


Table 3.3.1 Udon Thani (2008), Annual Incidence per 100,000 by Age Group (years) -Male

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	1.0	0.0	0.0	3.1	3.1	0.1	0.2	C00
Tongue	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.2	3.3	3.1	3.9	4.3	4.1	6.2	3.1	1.2	1.2	C01-02
Mouth	6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.3	1.5	1.0	7.2	4.1	3.1	9.2	0.8	1.0	C03-06
Salivary glands	5	0.6	0.0	0.0	0.5	0.5	0.0	0.0	0.6	1.2	0.7	1.5	0.0	2.9	2.1	3.1	3.1	0.6	0.7	C07-08
Tonsil	4	0.0	0.5	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	1.5	3.9	0.0	0.0	6.2	0.0	0.5	0.5	C09
Other oropharynx	1	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	0.0	3.1	0.1	0.1	C10
Nasopharynx	24	0.0	0.0	0.5	1.0	0.5	0.5	1.1	3.4	4.9	5.3	5.4	14.4	10.0	18.7	3.1	12.2	3.2	3.2	C11
Hypopharynx	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	1.0	2.9	6.2	3.1	3.1	0.4	0.5	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
Esophagus	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.5	0.7	0.8	7.7	7.2	2.1	9.2	6.1	1.2	1.2	C15
Stomach	23	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.7	3.7	1.3	10.0	7.7	17.2	18.7	24.7	21.4	3.1	3.5	C16
Small intestine	2	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.6	0.0	0.0	0.0	0.0	2.1	6.2	0.0	0.2	0.3	C17
Colon	41	0.0	0.0	0.0	0.5	1.0	1.1	0.5	4.0	3.1	5.3	10.0	15.4	22.9	33.2	40.1	70.2	5.5	6.2	C18
Rectum	29	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.7	4.3	6.0	11.5	12.5	17.2	24.9	24.7	15.3	3.8	4.1	C19-20
Anus	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	2.9	2.1	3.1	0.0	0.2	0.3	C21
Liver and bile duct	477	2.4	1.6	0.5	0.0	0.5	1.1	4.8	11.3	31.4	65.6	129.6	241.7	344.7	468.4	598.0	491.2	63.9	73.2	C22,C24
Gallbladder	13	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.0	1.3	0.8	2.9	8.6	18.7	21.6	24.4	1.7	2.1	C23
Pancreas	6	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.6	1.3	0.8	3.9	1.4	2.1	12.3	12.2	0.8	1.0	C25
Nose, sinuses etc.	4	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.6	0.7	2.3	1.9	1.4	4.1	3.1	0.0	0.5	0.5	C30-31
Larynx	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.8	1.9	4.3	14.5	21.6	6.1	1.1	1.3	C32
Trachea, Bronchus, and lung	121	0.0	0.0	0.0	0.0	0.5	0.5	1.1	4.5	5.5	10.6	19.2	48.1	115.8	128.5	191.1	137.3	16.2	19.3	C33-34
Other thoracic organs	1	0.6	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	2.1	0.0	0.0	0.2	0.2	C37-38
Bone	9	0.0	0.5	1.5	1.5	0.0	0.0	0.0	0.6	0.6	2.0	1.5	3.9	5.7	4.1	9.2	3.1	1.2	1.3	C40-C41
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.7	0.0	0.0	1.4	4.1	3.1	3.1	0.3	0.4	C43
Other skin	19	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.8	1.3	6.1	1.0	11.4	10.4	43.2	36.6	2.5	3.0	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 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	10	0.0	0.0	0.5	0.5	0.5	0.0	0.5	1.1	0.6	2.0	2.3	4.8	5.7	6.2	9.2	3.1	1.3	1.4	C47,C49
Breast	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	1.9	2.9	2.1	0.0	6.1	0.4	0.5	C50
Penis	10	0.0	0.5	0.0	0.0	0.0	0.5	1.1	1.7	2.5	2.0	0.8	2.9	5.7	4.1	12.3	6.1	1.3	1.4	C60
Prostate	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	5.8	12.9	16.6	58.6	85.4	3.3	4.3	C61
Testis	4	0.0	0.0	0.0	0.5	0.0	1.1	1.1	1.1	1.2	0.7	0.0	0.0	2.9	0.0	0.0	0.0	0.5	0.5	C62
Other male genital organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.1	0.1	C63
Kidney	7	0.6	0.0	0.0	0.5	0.0	0.0	0.0	0.6	1.8	0.0	3.8	3.9	1.4	2.1	9.2	6.1	1.0	1.0	C64
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.8	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	C66
Bladder	23	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	2.5	4.0	7.7	9.6	14.3	14.5	24.7	39.7	3.1	3.5	C67
Other urinary organs	1	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	0.0	0.0	0.1	0.1	C68
Eye	2	1.2	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.4	2.1	0.0	0.0	0.3	0.4	C69
Brain, nervous system	23	1.8	0.5	0.5	1.0	1.0	2.7	3.8	1.1	3.7	3.3	4.6	4.8	15.7	8.3	9.2	18.3	3.1	3.3	C70-72
Thyroid	6	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.6	1.8	3.3	3.8	1.0	1.4	0.0	3.1	0.0	0.8	0.7	C73
Adrenal gland	1	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	2.1	0.0	0.0	0.1	0.1	C74
Other endocrine	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.7	0.0	0.0	1.4	0.0	0.0	3.1	0.2	0.2	C75
Hodgkin disease	2	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.6	0.7	0.0	0.0	1.4	0.0	0.0	0.0	0.2	0.2	C81
Non-Hodgkin lymphoma	28	1.2	1.1	0.0	1.0	0.5	1.6	1.6	1.1	3.1	8.6	4.6	13.5	17.2	18.7	12.3	21.4	3.8	4.1	C82-85,C96
Immunoproliferative diseases	0	0.0	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	0.1	C88
Multiple myeloma	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.3	5.4	1.0	2.9	4.1	0.0	0.0	0.7	0.7	C90
Lymphoid leukemia	6	3.6	2.1	1.5	0.0	0.0	0.0	0.5	0.6	0.0	0.0	0.8	0.0	0.0	0.0	0.0	3.1	0.8	0.9	C91
Myeloid leukemia	9	0.6	0.5	1.5	0.0	0.0	1.1	0.5	1.1	1.8	0.7	2.3	2.9	1.4	8.3	3.1	0.0	1.2	1.2	C92-94
Leukemia unspecified	14	1.2	2.1	2.0	1.5	0.5	1.1	2.7	0.0	0.0	2.0	0.8	2.9	5.7	4.1	15.4	9.2	1.9	2.1	C95
Other and unspecified	66	0.0	0.5	0.0	1.0	0.5	1.1	4.3	5.1	4.3	13.3	17.6	19.3	38.6	58.0	70.9	79.3	8.8	9.8	O&U
All sites	**1,065**	**14.9**	**10.6**	**9.6**	**10.9**	**6.4**	**14.5**	**27.9**	**51.0**	**88.1**	**151.1**	**267.6**	**450.7**	**722.3**	**928.5**	**1267.0**	**1144.1**	**142.6**	**161.8**	**ALL**

Table 3.3.2 Udon Thani (2008), Annual Incidence per 100,000 by Age Group (years) -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	1.8	6.7	9.5	10.2	18.0	1.1	1.2	C00
Tongue	7	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.6	1.8	0.6	0.7	2.7	2.7	7.6	0.0	11.3	0.9	0.9	C01-02
Mouth	15	1.3	0.0	0.0	0.0	0.0	0.6	0.5	0.0	1.2	1.9	0.7	0.9	8.0	11.4	20.5	33.8	2.1	2.2	C03-06
Salivary glands	5	0.0	0.0	0.0	0.5	0.0	0.6	0.0	0.6	0.0	1.9	0.7	1.8	0.0	3.8	0.0	6.8	0.6	0.6	C07-08
Tonsil	3	0.6	1.1	0.5	0.0	0.0	0.0	0.0	0.6	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.4	0.4	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	2.6	0.0	0.0	0.1	C10
Nasopharynx	13	0.0	0.0	0.5	0.0	0.0	0.0	1.1	2.8	1.2	3.8	4.3	5.4	6.7	3.8	7.7	2.3	1.8	1.6	C11
Hypopharynx	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	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	2.6	0.0	0.0	0.1	C14
Esophagus	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.3	1.9	0.0	4.5	0.2	0.2	C15
Stomach	12	0.0	0.0	0.0	0.0	0.5	0.0	0.5	2.2	2.9	0.0	2.2	7.2	4.0	5.7	12.8	9.0	1.7	1.5	C16
Small intestine	2	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	1.9	2.6	2.3	0.2	0.2	C17
Colon	49	0.0	0.0	0.0	0.0	0.0	3.0	1.6	5.5	4.7	5.8	15.8	15.2	18.8	45.6	30.7	51.8	6.6	6.5	C18
Rectum	30	0.0	0.0	0.0	0.0	0.0	0.6	1.6	2.8	2.9	4.5	10.8	13.4	20.1	17.1	20.5	18.0	4.1	3.9	C19-20
Anus	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.7	1.3	1.9	2.6	0.0	0.3	0.3	C21
Liver and bile duct	271	0.0	0.0	0.0	0.0	0.5	1.8	2.2	7.7	16.9	33.3	61.8	102.2	180.8	247.0	325.3	268.2	36.7	37.5	C22,C24
Gallbladder	10	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.6	0.0	2.2	2.7	5.4	11.4	7.7	18.0	1.3	1.4	C23
Pancreas	9	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.6	1.2	2.6	2.9	2.7	6.7	3.8	2.6	6.8	1.2	1.2	C25
Nose, sinuses etc.	5	0.0	0.6	0.0	0.0	0.0	0.0	0.5	1.7	1.2	0.0	1.4	0.9	1.3	0.0	2.6	4.5	0.6	0.6	C30-31
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
Trachea, Bronchus, and lung	47	0.0	0.0	0.0	0.0	0.5	0.6	1.1	2.8	3.5	7.7	12.2	15.2	22.8	47.5	35.9	54.1	6.4	6.3	C33-34
Other thoracic organs	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.7	0.0	0.0	1.9	0.0	4.5	0.3	0.3	C37-38
Bone	12	0.0	1.7	1.1	0.5	1.1	1.2	1.1	0.0	0.6	2.6	2.2	1.8	5.4	3.8	15.4	2.3	1.6	1.6	C40-C41
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.9	2.7	3.8	0.0	0.0	0.3	0.3	C43
Other skin	26	0.6	0.0	0.0	0.5	0.0	0.6	0.0	1.1	1.8	1.3	2.9	5.4	17.4	19.0	30.7	54.1	3.6	3.7	C44
Mesothelioma	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	0.0	C45
Kaposi 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	8	1.3	0.0	0.5	1.1	0.0	0.0	0.5	0.6	1.2	0.6	2.2	4.5	2.7	3.8	2.6	4.5	1.1	1.1	C47,C49
Breast	163	0.0	0.0	0.0	0.5	0.5	3.6	12.5	23.7	46.7	60.8	52.5	56.5	67.0	47.5	43.5	29.3	22.1	19.4	C50
Vulva	5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.6	0.0	0.0	2.7	4.0	0.0	2.6	11.3	0.6	0.6	C51
Vagina	2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.7	0.0	0.0	2.3	0.2	0.3	C52
Cervix uteri	142	0.0	0.0	0.0	0.0	2.2	5.9	15.3	25.4	28.0	40.3	52.5	44.8	60.3	43.7	58.9	31.6	19.3	17.1	C53
Corpus uteri	28	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.7	3.5	7.0	10.8	25.1	12.1	5.7	15.4	6.8	3.8	3.4	C54
Uterus unspecified	5	0.0	0.0	0.0	0.0	0.0	0.6	0.5	0.6	0.0	2.6	0.0	3.6	1.3	1.9	0.0	2.3	0.6	0.6	C55
Ovary	49	0.6	0.0	0.0	3.2	2.2	3.0	3.8	4.4	11.7	16.0	15.8	22.4	12.1	20.9	2.6	6.8	6.6	5.9	C56
Other female genital	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	0.0	C57
Placenta	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	0.0	0.0	0.0	0.0	0.0	C58
Kidney	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	2.9	0.0	1.3	3.8	0.0	4.5	0.5	0.5	C64
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	0.0	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	3	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.6	0.0	2.7	5.4	0.0	0.0	2.3	0.5	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	1.3	0.0	2.6	2.3	0.1	0.1	C68
Eye	3	0.0	0.0	0.0	0.5	0.0	0.0	1.1	0.0	0.6	1.3	0.0	0.9	0.0	0.0	0.0	2.3	0.4	0.3	C69
Brain, nervous system	20	3.1	4.5	1.1	1.1	1.1	2.4	1.1	1.7	2.9	2.6	2.9	9.9	1.3	3.8	5.1	9.0	2.8	2.8	C70-72
Thyroid	29	0.0	0.0	0.0	0.5	1.1	3.0	2.2	7.7	6.4	6.4	8.6	8.1	12.1	5.7	10.2	9.0	4.0	3.5	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	2.6	0.0	0.1	0.1	C74
Other endocrine	1	0.0	0.0	0.0	0.5	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C75
Hodgkin disease	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	0.0	0.0	0.0	0.0	0.0	C81
Non-Hodgkin lymphoma	24	0.0	0.6	1.1	0.0	0.5	1.2	0.5	2.2	2.9	7.0	10.1	7.2	10.7	11.4	7.7	11.3	3.2	3.0	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.7	0.9	1.3	0.0	0.0	4.5	0.3	0.2	C90
Lymphoid leukemia	3	1.3	0.6	0.5	0.5	0.0	0.6	0.0	0.6	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.4	0.4	C91
Myeloid leukemia	8	1.3	0.0	0.5	0.5	0.0	0.0	0.5	0.0	0.6	3.2	2.2	1.8	4.0	9.5	0.0	0.0	1.1	1.1	C92-94
Leukemia unspecified	16	1.9	1.7	0.5	1.1	1.1	0.0	2.2	2.8	1.8	1.3	4.3	2.7	2.7	11.4	7.7	4.5	2.1	2.1	C95
Other and unspecified	54	0.0	0.0	0.5	0.0	0.0	1.8	5.4	2.8	5.8	7.0	12.2	16.1	30.8	45.6	53.8	40.6	7.3	7.2	O&U
All sites	**1,105**	**13.2**	**10.6**	**8.0**	**11.2**	**12.6**	**32.1**	**59.4**	**104.2**	**154.8**	**224.7**	**303.9**	**395.2**	**545.1**	**663.0**	**747.9**	**755.1**	**149.4**	**143.3**	**ALL**

Table 3.3.3 Annual incidence, Udon Thani, 2008

Site	Male						Female						ICD-10
	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world	Com. 0-64 (percent)	Rate. 0-74	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world	Com. 0-64 (percent)	Rate. 0-74	
Lip	1	0.1	0.1	0.2	0.0	0.0	8	0.7	1.1	1.2	0.0	0.1	C00
Tongue	9	0.8	1.2	1.2	0.1	0.1	7	0.6	0.9	0.9	0.0	0.1	C01-02
Mouth	6	0.6	0.8	1.0	0.1	0.1	15	1.4	2.1	2.2	0.1	0.2	C03-06
Salivary glands	5	0.4	0.6	0.7	0.0	0.1	5	0.4	0.6	0.6	0.0	0.0	C07-08
Tonsil	4	0.3	0.5	0.5	0.0	0.1	3	0.2	0.4	0.4	0.0	0.0	C09
Other oropharynx	1	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.1	0.0	0.0	C10
Nasopharynx	24	2.3	3.2	3.2	0.2	0.3	13	1.2	1.8	1.6	0.1	0.2	C11
Hypopharynx	3	0.3	0.4	0.5	0.0	0.1	0	0.0	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	0.1	0.0	0.0	C14
Esophagus	9	0.8	1.2	1.2	0.1	0.2	2	0.2	0.2	0.2	0.0	0.0	C15
Stomach	23	2.2	3.1	3.5	0.2	0.4	12	1.1	1.7	1.5	0.1	0.2	C16
Small intestine	2	0.2	0.2	0.3	0.0	0.0	2	0.2	0.2	0.2	0.0	0.0	C17
Colon	41	3.8	5.5	6.2	0.3	0.7	49	4.4	6.6	6.5	0.4	0.7	C18
Rectum	29	2.7	3.8	4.1	0.3	0.5	30	2.7	4.1	3.9	0.3	0.5	C19-20
Anus	2	0.2	0.2	0.3	0.0	0.0	2	0.2	0.3	0.3	0.0	0.0	C21
Liver and bile duct	477	44.8	63.9	73.2	4.2	9.5	271	24.6	36.7	37.5	2.0	4.9	C22,C24
Gallbladder	13	1.2	1.7	2.1	0.1	0.3	10	0.9	1.3	1.4	0.1	0.2	C23
Pancreas	6	0.6	0.8	1.0	0.0	0.1	9	0.8	1.2	1.2	0.1	0.1	C25
Nose, sinuses etc.	4	0.4	0.5	0.5	0.0	0.1	5	0.4	0.6	0.6	0.0	0.1	C30-31
Larynx	8	0.8	1.1	1.3	0.0	0.2	0	0.0	0.0	0.0	0.0	0.0	C32
Trachea, Bronchus, and lung	121	11.3	16.2	19.3	1.0	2.6	47	4.3	6.4	6.3	0.3	0.7	C33-34
Other thoracic organs	1	0.1	0.2	0.2	0.0	0.0	2	0.2	0.3	0.3	0.0	0.0	C37-38
Bone	9	0.9	1.2	1.3	0.1	0.2	12	1.1	1.6	1.6	0.1	0.2	C40-C41
Melanoma of skin	2	0.2	0.3	0.4	0.0	0.0	2	0.2	0.3	0.3	0.0	0.0	C43
Other skin	19	1.8	2.5	3.0	0.1	0.4	26	2.4	3.6	3.7	0.2	0.4	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi sarcoma	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	10	0.9	1.3	1.4	0.1	0.2	8	0.8	1.1	1.1	0.1	0.1	C47,C49
Breast	3	0.3	0.4	0.5	0.0	0.0	163	14.8	22.1	19.4	1.6	2.1	C50
Vulva							5	0.4	0.6	0.6	0.0	0.1	C51
Vagina							2	0.2	0.2	0.3	0.0	0.0	C52
Cervix uteri							142	12.9	19.3	17.1	1.4	1.9	C53
Corpus uteri							28	2.6	3.8	3.4	0.3	0.4	C54
Uterus unspecified							5	0.4	0.6	0.6	0.0	0.1	C55
Ovary							49	4.4	6.6	5.9	0.5	0.6	C56
Other female genital							0	0.0	0.0	0.0	0.0	0.0	C57
Placenta							0	0.0	0.0	0.0	0.0	0.0	C58
Penis	10	0.9	1.3	1.4	0.1	0.2							C60
Prostate	25	2.3	3.3	4.3	0.1	0.5							C61
Testis	4	0.4	0.5	0.5	0.0	0.0							C62
Other male genital organs	1	0.1	0.1	0.1	0.0	0.0							C63
Kidney	7	0.7	1.0	1.0	0.1	0.1	4	0.3	0.5	0.5	0.0	0.0	C64
Renal pelvis	1	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	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	C66
Bladder	23	2.2	3.1	3.5	0.2	0.4	3	0.3	0.5	0.5	0.0	0.0	C67
Other urinary organs	1	0.1	0.1	0.1	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C68
Eye	2	0.2	0.3	0.4	0.0	0.0	3	0.2	0.4	0.3	0.0	0.0	C69
Brain, nervous system	23	2.2	3.1	3.3	0.2	0.3	20	1.8	2.8	2.8	0.2	0.2	C70-72
Thyroid	6	0.6	0.8	0.7	0.1	0.1	29	2.7	4.0	3.5	0.3	0.4	C73
Adrenal gland	1	0.1	0.1	0.1	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	0.1	0.1	0.0	0.0	C75
Hodgkin disease	2	0.2	0.2	0.2	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C81
Non-Hodgkin lymphoma	28	2.7	3.8	4.1	0.3	0.4	24	2.1	3.2	3.0	0.2	0.3	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	5	0.5	0.7	0.7	0.1	0.1	2	0.2	0.3	0.2	0.0	0.0	C90
Lymphoid leukemia	6	0.5	0.8	0.9	0.0	0.0	3	0.2	0.4	0.4	0.0	0.0	C91
Myeloid leukemia	9	0.8	1.2	1.2	0.1	0.1	8	0.7	1.1	1.1	0.1	0.1	C92-94
Leukemia unspecified	14	1.3	1.9	2.1	0.1	0.2	16	1.4	2.1	2.1	0.1	0.2	C95
Other and unspecified	66	6.2	8.8	9.8	0.5	1.2	54	4.9	7.3	7.2	0.4	0.9	O&U
All sites	**1,065**	**100.0**	**142.6**	**161.8**	**9.1**	**20.1**	**1,105**	**100.0**	**149.4**	**143.3**	**9.4**	**16.4**	**ALL**

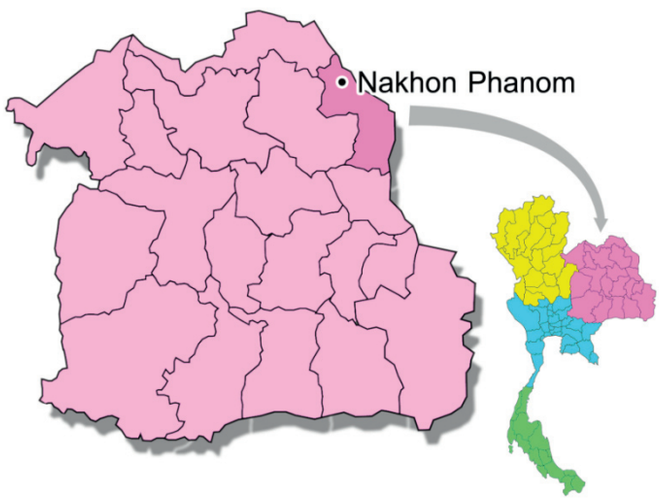
Table 3.3.4 Percentage of morphologically verified and death certificate only cases, Udon Thani,2008

Site	Male			Female			ICD-10
	Cases 3 Years	%MV	%DCO	Cases 3 Years	%MV	%DCO	
Oral cavity	63	76.2	0.0	105	68.6	0.0	C00-C08
Oropharynx, etc	14	64.3	0.0	10	10.0	0.0	C09-C10,C14
Nasopharynx	72	84.7	0.0	39	89.7	0.0	C11
Hypopharynx	9	88.9	0.0	1	100.0	0.0	C12-C13
Oesophagus	26	69.2	0.0	5	20.0	0.0	C15
Stomach	70	60.0	1.4	37	73.0	2.7	C16
Small intestine	5	40.0	0.0	5	80.0	0.0	C17
Colon and rectum	214	66.8	1.4	245	71.8	0.0	C18-C21
Liver and bile duct	1432	15.8	8.9	814	16.1	9.0	C22,C24
Gallbladder	38	23.7	31.6	29	58.6	24.1	C23
Pancreas	19	10.5	5.3	27	25.9	0.0	C25
Nose, sinuses etc	12	83.3	0.0	14	78.6	0.0	C30-C31
Larynx	24	75.0	0.0	0	0.0	0.0	C32
Bronchus, lung	362	45.0	4.7	141	45.4	7.1	C33-C34
Other thoracic organs	4	25.0	0.0	6	50.0	0.0	C37-C38
Bone	28	28.6	21.4	35	45.7	11.4	C40-C41
Melanoma of skin	7	100.0	0.0	7	85.7	0.0	C43
Other skin	56	85.7	0.0	79	88.6	0.0	C44
Mesothelioma	0	0.0	0.0	1	100.0	0.0	C45
Kaposi sarcoma	0	0.0	0.0	0	0.0	0.0	C46
Connective and soft tissue	29	75.9	0.0	25	88.0	0.0	C47,C49
Breast	9	44.4	0.0	490	79.0	0.0	C50
Vulva				14	85.7	0.0	C51
Vagina				5	100.0	0.0	C52
Cervix uteri				427	71.4	0.2	C53
Corpus uteri				85	76.5	0.0	C54
Uterus unspecified				14	35.7	28.6	C55
Ovary				147	68.7	0.7	C56
Other female genital				1	100.0	0.0	C57
Placenta				1	0.0	0.0	C58
Penis	30	80.0	0.0				C60
Prostate	75	66.7	2.7				C61
Testis	12	58.3	0.0				C62
Other male genital organs	2	0.0	0.0				C63
Kidney	22	77.3	4.5	11	45.5	0.0	C64
Renal pelvis	2	100.0	0.0	1	100.0	0.0	C65
Ureter	0	0.0	0.0	0	0.0	0.0	C66
Bladder	69	79.7	2.9	10	70.0	0.0	C67
Other urinary organs	2	0.0	0.0	3	100.0	0.0	C68
Eye	7	42.9	0.0	8	37.5	0.0	C69
Brain, nervous system	69	34.8	4.3	61	39.3	4.9	C70-72
Thyroid	18	77.8	0.0	88	78.4	0.0	C73
Adrenal gland	2	50.0	0.0	2	50.0	0.0	C74
Other endocrine	4	75.0	0.0	3	66.7	0.0	C75
Hodgkin's disease	5	100.0	0.0	1	100.0	0.0	C81
Non-Hodgkin lymph	85	95.3	0.0	71	98.6	0.0	C82-85,C96
Immunoproliferative diseases	1	100.0	0.0	0	0.0	0.0	C88
Multiple myeloma	15	93.3	0.0	6	83.3	0.0	C90
Leukemia	85	88.2	7.1	79	83.5	11.4	C91-C95
Other and unspecified	197	40.6	14.2	161	32.9	19.3	O&U
All sites	**3,195**	**40.8**	**6.5**	**3,314**	**56.0**	**4.3**	**ALL**

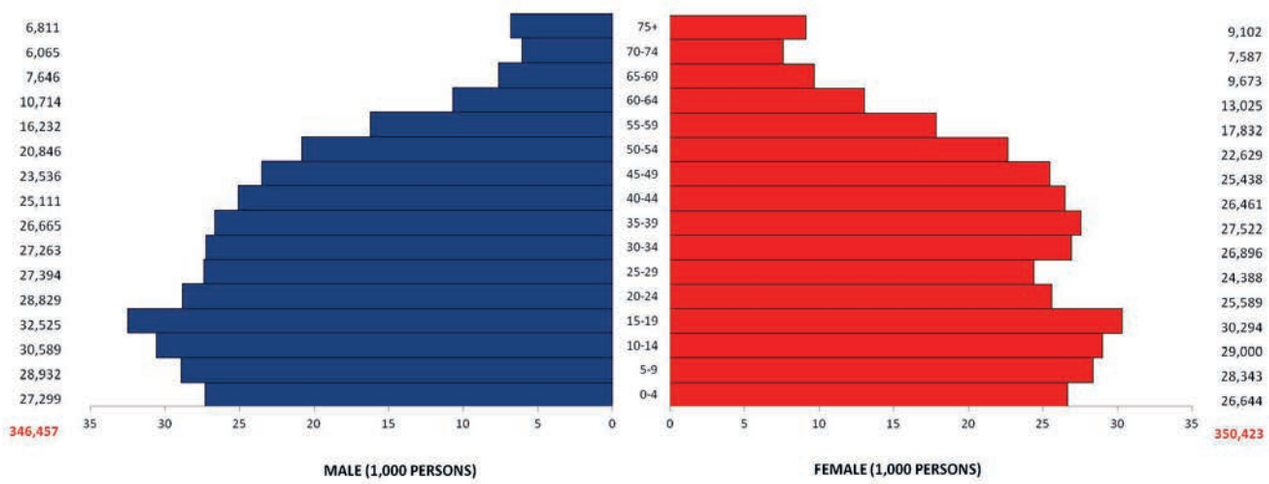
Nakhon Phanom Cancer Registry

Registration area

Nakhon Phanom, which is 740 kilometers from Bangkok, covers an area of 5,512 square kilometers, at a latitude 17:23 N and longitude 104: 43 E, 142 meters above sea level, and is comprised of the following; Mueang Nakhon Phanom, Pla Pak, Tha Uthen, Phon Sawan, Ban Phaeng, That Phanom, Renu Nakhon, Na Kae, Si Song-khram, Na Wa, Na Thom districts and Wang Yang sub-district. Nakhon Phanom is located on the bank of the Maekong River, across which Laotians and people from other ethnic groups have migrated throughout history. This recurring pattern of migration has left its mark on the local dialects, customs and cuisine of Nakhon Phanom.



Population pyramid, Nakhon Phanom, 2008



Cancer care facilities

Thailand has a national health care system. At the primary health care level, there are no facilities for specialized cancer diagnosis and treatment. The provincial hospital is a general hospital. At the provincial level, there are facilities for cancer surgery, but not chemotherapy or radiotherapy. Most cancer patients are referred to cancer centers and other hospitals for diagnosis and treatment. Cancer surgery services are provided at Nakhon Phanom provincial hospital. The cancer patients are referred for surgery, chemotherapy and radiotherapy to Udon Thani and Ubon Ratchathani cancer centers or other hospitals in Khon Kaen and Bangkok.

Registry procedures

The population-based cancer registry of Nakhon Phanom province was set up at the National Cancer Institute, Bangkok in 1997. The sources of information are all hospitals in Nakhon Phanom province, Udon Thani cancer registry, Ubon Ratchathani cancer registry, Khon Kaen cancer registry and Bangkok cancer registry.

Summary of results

New cases registered in 2008, 559 were males and 533 were females, making 1,092 for both sexes. The age - standardized incidence rate (ASR) of all sites in males was 165.8 per 100,000, with liver and bile duct ranking first (ASR = 83.1), followed by lung (ASR = 15.8) and colon and rectum (ASR = 9.8). The ASR of all sites in females was 133.7, the three leading cancers being liver and bile duct (ASR = 43.2), breast (ASR = 18.2) and cervix (ASR = 13.8).

Figure 3.4 Leading cancer in Nakhon Phanom, 2008

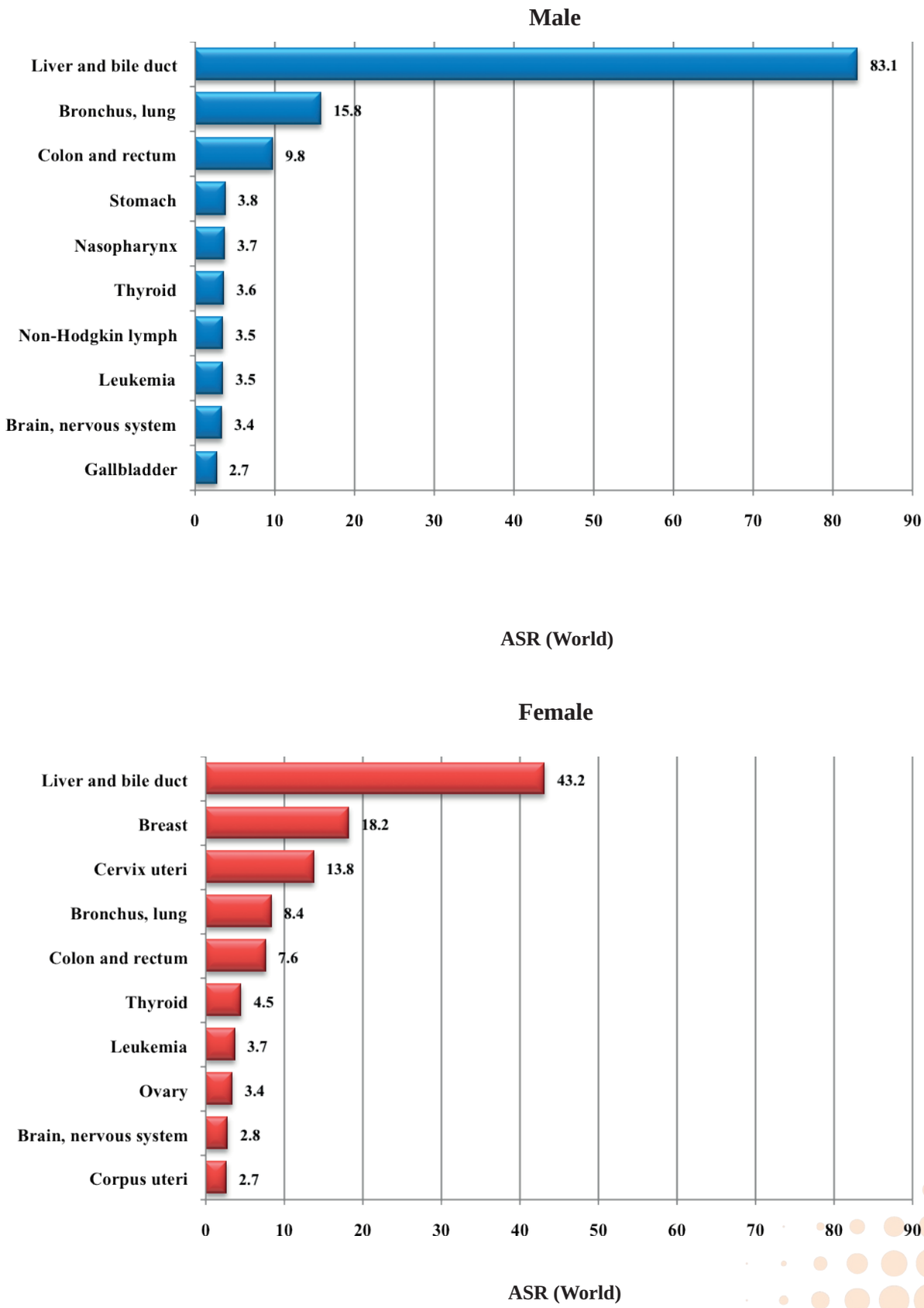


Table 3.4.1 Nakhon Phanom (2008), Annual Incidence per 100,000 by Age Group (years) -Male

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	2.1	0.0	4.4	0.0	0.0	0.2	0.2	C00
Tongue	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.7	2.8	1.6	0.0	3.1	4.4	5.5	0.0	1.0	0.9	C01-02
Mouth	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.0	4.1	0.0	8.7	11.0	4.9	0.9	0.9	C03-06
Salivary glands	1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.3	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.3	0.3	C07-08
Tonsil	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.1	6.2	0.0	11.0	0.0	0.6	0.6	C09
Other oropharynx	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	0.0	0.0	0.1	0.1	C10
Nasopharynx	13	0.0	0.0	2.2	1.0	0.0	0.0	3.7	0.0	4.0	5.7	8.0	10.3	15.6	13.1	22.0	19.6	3.8	3.7	C11
Hypopharynx	1	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	0.0	0.2	0.2	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
Esophagus	4	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.3	0.0	4.8	4.1	9.3	4.4	0.0	9.8	1.3	1.3	C15
Stomach	13	0.0	0.0	0.0	0.0	1.2	1.2	0.0	1.3	4.0	4.2	1.6	14.4	15.6	21.8	22.0	34.3	3.7	3.8	C16
Small intestine	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	3.1	0.0	5.5	0.0	0.3	0.3	C17
Colon	20	0.0	0.0	0.0	0.0	0.0	1.2	2.4	5.0	6.6	7.1	16.0	18.5	18.7	34.9	33.0	24.5	5.9	5.8	C18
Rectum	13	0.0	0.0	0.0	0.0	1.2	0.0	2.4	3.8	5.3	7.1	4.8	12.3	18.7	13.1	11.0	19.6	3.8	3.7	C19-20
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	3.1	0.0	0.0	4.9	0.2	0.2	C21
Liver and bile duct	282	1.2	0.0	0.0	0.0	1.2	3.7	20.8	37.5	61.1	117.6	201.5	342.9	423.1	479.6	428.7	234.9	81.4	83.1	C22,C24
Gallbladder	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	1.4	1.6	18.5	12.4	17.4	22.0	9.8	2.6	2.7	C23
Pancreas	3	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	2.8	1.6	2.1	6.2	8.7	0.0	0.0	0.9	0.9	C25
Nose, sinuses etc.	2	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	1.6	0.0	3.1	0.0	5.5	0.0	0.5	0.5	C30-31
Larynx	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	9.3	21.8	0.0	14.7	1.2	1.4	C32
Trachea, Bronchus, and lung	52	0.0	0.0	0.0	1.0	1.2	0.0	4.9	8.8	13.3	24.1	12.8	47.2	74.7	104.6	93.4	102.8	15.1	15.8	C33-34
Other thoracic organs	1	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.3	0.3	C37-38
Bone	5	0.0	0.0	0.0	2.0	0.0	1.2	0.0	0.0	2.7	2.8	1.6	4.1	15.6	0.0	0.0	4.9	1.5	1.6	C40-C41
Melanoma of skin	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	2.1	3.1	0.0	0.0	0.0	0.4	0.4	C43
Other skin	5	0.0	0.0	0.0	1.0	0.0	0.0	2.4	0.0	2.7	1.4	1.6	4.1	9.3	4.4	0.0	14.7	1.5	1.5	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 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	3	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	2.8	1.6	0.0	0.0	0.0	5.5	9.8	0.8	0.8	C47,C49
Breast	1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	2.1	3.1	0.0	0.0	0.0	0.3	0.3	C50
Penis	3	0.0	0.0	0.0	1.0	0.0	0.0	1.2	0.0	1.3	1.4	3.2	2.1	0.0	0.0	5.5	0.0	0.8	0.7	C60
Prostate	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.6	4.1	3.1	13.1	33.0	29.4	1.9	2.1	C61
Testis	2	0.0	0.0	0.0	1.0	0.0	0.0	1.2	1.3	1.3	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.5	0.4	C62
Other male genital organs	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	0.0	0.0	0.0	0.1	0.1	C63
Kidney	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.2	6.2	8.7	0.0	0.0	0.8	0.8	C64
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
Ureter	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	0.0	0.1	0.1	C66
Bladder	5	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	6.2	6.2	8.7	11.0	19.6	1.3	1.4	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	1	1.2	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	0.0	0.0	0.2	0.2	C69
Brain, nervous system	12	1.2	1.2	0.0	1.0	0.0	3.7	2.4	6.3	1.3	2.8	4.8	10.3	12.4	13.1	11.0	9.8	3.4	3.4	C70-72
Thyroid	12	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.8	1.3	4.2	6.4	12.3	18.7	30.5	22.0	4.9	3.5	3.6	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	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	0.0	0.1	0.1	C75
Hodgkin disease	1	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.3	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	C81
Non-Hodgkin lymphoma	12	0.0	1.2	1.1	1.0	0.0	0.0	3.7	6.3	1.3	5.7	6.4	4.1	9.3	17.4	27.5	14.7	3.6	3.5	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.6	0.0	0.0	4.4	0.0	4.9	0.4	0.4	C90
Lymphoid leukemia	3	3.7	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	2.1	0.0	0.0	0.0	0.0	0.8	0.9	C91
Myeloid leukemia	1	1.2	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	C92-94
Leukemia unspecified	7	2.4	0.0	1.1	2.0	1.2	0.0	0.0	0.0	0.0	1.4	3.2	4.1	9.3	17.4	11.0	0.0	1.9	2.2	C95
Other and unspecified	46	0.0	0.0	1.1	0.0	1.2	2.4	7.3	10.0	8.0	21.2	14.4	32.9	65.3	95.9	66.0	88.1	13.2	13.8	O&U
All sites	**559**	**11.0**	**4.6**	**8.7**	**13.3**	**6.9**	**17.0**	**63.6**	**92.5**	**123.5**	**225.2**	**310.2**	**583.2**	**787.1**	**954.7**	**862.9**	**680.3**	**161.4**	**165.8**	**ALL**

Table 3.4.2 Nakhon Phanom (2008), Annual Incidence per 100,000 by Age Group (years) - 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	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	4.4	3.7	0.2	0.2	C00
Tongue	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.5	0.0	2.6	0.0	0.0	0.0	0.3	0.2	C01-02
Mouth	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	7.5	7.7	17.2	4.4	14.6	1.7	1.6	C03-06
Salivary glands	1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	3.7	0.3	0.2	C07-08
Tonsil	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	0.0	0.0	3.7	0.2	0.2	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	4	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	3.8	0.0	5.9	5.6	0.0	0.0	4.4	0.0	1.1	0.9	C11
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	0.0	0.0	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	0.0	0.0	0.0	C14
Esophagus	1	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	4.4	0.0	0.2	0.2	C15
Stomach	6	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	3.8	3.9	0.0	1.9	2.6	6.9	17.6	3.7	1.7	1.5	C16
Small intestine	1	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	1.9	0.0	3.4	0.0	3.7	0.4	0.4	C17
Colon	21	0.0	0.0	0.0	0.0	0.0	2.7	2.5	0.0	8.8	6.6	8.8	24.3	5.1	17.2	39.5	43.9	6.0	5.1	C18
Rectum	10	0.0	0.0	0.0	0.0	1.3	0.0	1.2	2.4	2.5	1.3	4.4	3.7	15.4	6.9	22.0	14.6	2.8	2.5	C19-20
Anus	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.1	0.1	C21
Liver and bile duct	169	1.3	0.0	0.0	1.1	0.0	4.1	2.5	15.7	30.2	65.5	110.5	162.6	209.9	268.8	202.1	161.1	48.1	43.2	C22,C24
Gallbladder	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	9.3	15.4	0.0	8.8	7.3	1.9	1.7	C23
Pancreas	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.5	3.7	0.0	3.4	4.4	0.0	0.6	0.5	C25
Nose, sinuses etc.	1	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	1.5	0.0	2.6	3.4	0.0	0.0	0.4	0.4	C30-31
Larynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	2.6	10.3	8.8	0.0	0.7	0.7	C32
Trachea, Bronchus, and lung	33	0.0	0.0	0.0	0.0	0.0	2.7	3.7	3.6	3.8	14.4	11.8	31.8	46.1	41.4	22.0	62.3	9.4	8.4	C33-34
Other thoracic organs	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.1	0.1	C37-38
Bone	4	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.2	1.3	0.0	0.0	5.6	7.7	6.9	0.0	3.7	1.1	1.1	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	0.0	0.0	0.0	3.4	0.0	0.0	0.1	0.1	C43
Other skin	6	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.6	0.0	1.3	0.0	3.7	0.0	10.3	4.4	22.0	1.6	1.4	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 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	4	0.0	0.0	0.0	1.1	1.3	1.4	2.5	0.0	0.0	1.3	0.0	1.9	2.6	6.9	4.4	3.7	1.1	1.1	C47,C49
Breast	76	0.0	0.0	0.0	0.0	1.3	9.6	11.2	20.6	44.1	74.7	36.8	65.4	40.9	34.5	26.4	33.0	21.6	18.2	C50
Vulva	1	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	3.4	0.0	0.0	0.2	0.2	C51
Vagina	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	C52
Cervix uteri	58	0.0	0.0	0.0	1.1	0.0	4.1	5.0	18.2	31.5	41.9	39.8	59.8	30.7	24.1	30.8	29.3	16.5	13.8	C53
Corpus uteri	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	5.0	1.3	7.4	18.7	12.8	13.8	4.4	0.0	3.0	2.7	C54
Uterus unspecified	3	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.3	0.0	0.0	3.7	5.1	0.0	4.4	7.3	1.0	0.8	C55
Ovary	14	0.0	0.0	1.1	2.2	0.0	0.0	1.2	1.2	5.0	6.6	11.8	16.8	7.7	10.3	17.6	0.0	3.9	3.4	C56
Other female genital	0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C58
Kidney	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.2	0.1	C64
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	1.9	0.0	0.0	0.0	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	0.0	0.0	0.0	C66
Bladder	0	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	0.0	0.1	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	0.0	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	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	C69
Brain, nervous system	11	2.5	1.2	0.0	0.0	0.0	2.7	2.5	1.2	5.0	3.9	5.9	9.3	12.8	0.0	4.4	7.3	3.0	2.8	C70-72
Thyroid	18	0.0	0.0	0.0	2.2	1.3	4.1	2.5	2.4	5.0	5.2	16.2	7.5	10.2	27.6	22.0	11.0	5.0	4.5	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	1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.2	0.1	C75
Hodgkin disease	2	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.2	0.0	1.3	2.9	0.0	0.0	3.4	0.0	0.0	0.6	0.5	C81
Non-Hodgkin lymphoma	7	0.0	0.0	0.0	0.0	1.3	0.0	2.5	1.2	2.5	3.9	4.4	7.5	5.1	3.4	13.2	0.0	2.1	1.8	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	2.9	0.0	0.0	0.0	4.4	0.0	0.4	0.3	C90
Lymphoid leukemia	3	1.3	0.0	1.1	0.0	0.0	0.0	0.0	2.4	2.5	0.0	0.0	0.0	0.0	3.4	0.0	7.3	0.9	0.8	C91
Myeloid leukemia	1	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	6.9	0.0	0.0	0.3	0.3	C92-94
Leukemia unspecified	10	1.3	0.0	1.1	1.1	1.3	1.4	0.0	1.2	6.3	2.6	4.4	5.6	5.1	13.8	8.8	11.0	2.9	2.6	C95
Other and unspecified	35	0.0	0.0	0.0	0.0	1.3	4.1	2.5	13.3	5.0	13.1	16.2	37.4	35.8	44.8	35.1	25.6	9.9	8.8	O&U
All sites	**533**	**6.3**	**1.2**	**4.6**	**8.8**	**10.4**	**42.4**	**50.8**	**98.1**	**168.8**	**252.9**	**307.9**	**502.8**	**488.8**	**596.2**	**522.8**	**487.1**	**152.2**	**133.7**	**ALL**

Table 3.4.3 Annual incidence, Nakhon Phanom, 2008

Site	Male						Female						ICD-10
	No. Cases Year	Freq. (%)	Crude rate	ASR world	Com. 0-64	Rate. 0-74	No. Cases Year	Freq. (%)	Crude rate	ASR world	Com. 0-64	Rate. 0-74	
			(per 100,000)		(percent)				(per 100,000)		(percent)		
Lip	1	0.1	0.2	0.2	0.0	0.0	1	0.1	0.2	0.2	0.0	0.0	C00
Tongue	3	0.6	1.0	0.9	0.1	0.1	1	0.2	0.3	0.2	0.0	0.0	C01-02
Mouth	3	0.5	0.9	0.9	0.0	0.1	6	1.1	1.7	1.6	0.1	0.2	C03-06
Salivary glands	1	0.2	0.3	0.3	0.0	0.0	1	0.2	0.3	0.2	0.0	0.0	C07-08
Tonsil	2	0.4	0.6	0.6	0.0	0.1	1	0.1	0.2	0.2	0.0	0.0	C09
Other oropharynx	0	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C10
Nasopharynx	13	2.3	3.8	3.7	0.3	0.4	4	0.8	1.1	0.9	0.1	0.1	C11
Hypopharynx	1	0.1	0.2	0.2	0.0	0.0	0	0.0	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	C14
Esophagus	4	0.8	1.3	1.3	0.1	0.1	1	0.1	0.2	0.2	0.0	0.0	C15
Stomach	13	2.3	3.7	3.8	0.2	0.4	6	1.1	1.7	1.5	0.1	0.2	C16
Small intestine	1	0.2	0.3	0.3	0.0	0.1	1	0.3	0.4	0.4	0.0	0.0	C17
Colon	20	3.6	5.9	5.8	0.4	0.7	21	3.9	6.0	5.1	0.3	0.6	C18
Rectum	13	2.3	3.8	3.7	0.3	0.4	10	1.8	2.8	2.5	0.2	0.3	C19-20
Anus	1	0.1	0.2	0.2	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C21
Liver and bile duct	282	50.4	81.4	83.1	6.1	10.6	169	31.6	48.1	43.2	3.0	5.4	C22,C24
Gallbladder	9	1.6	2.6	2.7	0.2	0.4	7	1.3	1.9	1.7	0.2	0.2	C23
Pancreas	3	0.5	0.9	0.9	0.1	0.1	2	0.4	0.6	0.5	0.0	0.1	C25
Nose, sinuses etc.	2	0.3	0.5	0.5	0.0	0.1	1	0.3	0.4	0.4	0.0	0.0	C30-31
Larynx	4	0.7	1.2	1.4	0.1	0.2	2	0.4	0.7	0.7	0.0	0.1	C32
Trachea, Bronchus, and lung	52	9.4	15.1	15.8	0.9	1.9	33	6.2	9.4	8.4	0.6	0.9	C33-34
Other thoracic organs	1	0.2	0.3	0.3	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C37-38
Bone	5	1.0	1.5	1.6	0.2	0.2	4	0.8	1.1	1.1	0.1	0.1	C40-C41
Melanoma of skin	1	0.2	0.4	0.4	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C43
Other skin	5	1.0	1.5	1.5	0.1	0.1	6	1.1	1.6	1.4	0.0	0.1	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi sarcoma	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	3	0.5	0.8	0.8	0.0	0.1	4	0.8	1.1	1.1	0.1	0.1	C47,C49
Breast	1	0.2	0.3	0.3	0.0	0.0	76	14.2	21.6	18.2	1.5	1.8	C50
Vulva							1	0.1	0.2	0.2	0.0	0.0	C51
Vagina							0	0.1	0.1	0.1	0.0	0.0	C52
Cervix uteri							58	10.8	16.5	13.8	1.2	1.4	C53
Corpus uteri							11	2.0	3.0	2.7	0.2	0.3	C54
Uterus unspecified							3	0.6	1.0	0.8	0.1	0.1	C55
Ovary							14	2.6	3.9	3.4	0.3	0.4	C56
Other female genital							0	0.0	0.0	0.0	0.0	0.0	C57
Placenta							0	0.1	0.1	0.1	0.0	0.0	C58
Penis	3	0.5	0.8	0.7	0.1	0.1							C60
Prostate	7	1.2	1.9	2.1	0.1	0.3							C61
Testis	2	0.3	0.5	0.4	0.0	0.0							C62
Other male genital organs	0	0.1	0.1	0.1	0.0	0.0							C63
Kidney	3	0.5	0.8	0.8	0.1	0.1	1	0.1	0.2	0.1	0.0	0.0	C64
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C65
Ureter	0	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C66
Bladder	5	0.8	1.3	1.4	0.1	0.2	0	0.1	0.1	0.1	0.0	0.0	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	0.2	0.2	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C69
Brain, nervous system	12	2.1	3.4	3.4	0.2	0.4	11	2.0	3.0	2.8	0.2	0.3	C70-72
Thyroid	12	2.1	3.5	3.6	0.2	0.5	18	3.3	5.0	4.5	0.3	0.5	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	C74
Other endocrine	0	0.1	0.1	0.1	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C75
Hodgkin disease	1	0.2	0.3	0.3	0.0	0.0	2	0.4	0.6	0.5	0.0	0.1	C81
Non-Hodgkin lymphoma	12	2.2	3.6	3.5	0.2	0.4	7	1.4	2.1	1.8	0.1	0.2	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	1	0.2	0.4	0.4	0.0	0.0	1	0.3	0.4	0.3	0.0	0.0	C90
Lymphoid leukemia	3	0.5	0.8	0.9	0.1	0.1	3	0.6	0.9	0.8	0.0	0.1	C91
Myeloid leukemia	1	0.2	0.4	0.4	0.0	0.0	1	0.2	0.3	0.3	0.0	0.0	C92-94
Leukemia unspecified	7	1.2	1.9	2.2	0.1	0.3	10	1.9	2.9	2.6	0.2	0.3	C95
Other and unspecified	46	8.2	13.2	13.8	0.8	1.6	35	6.5	9.9	8.8	0.6	1.0	O&U
All sites	**559**	**100.0**	**161.4**	**165.8**	**11.2**	**20.3**	**533**	**100.0**	**152.2**	**133.7**	**9.7**	**15.3**	**ALL**

Table 3.4.4 Percentage of morphologically verified and death certificate only cases, Nakhon Phanom, 2008

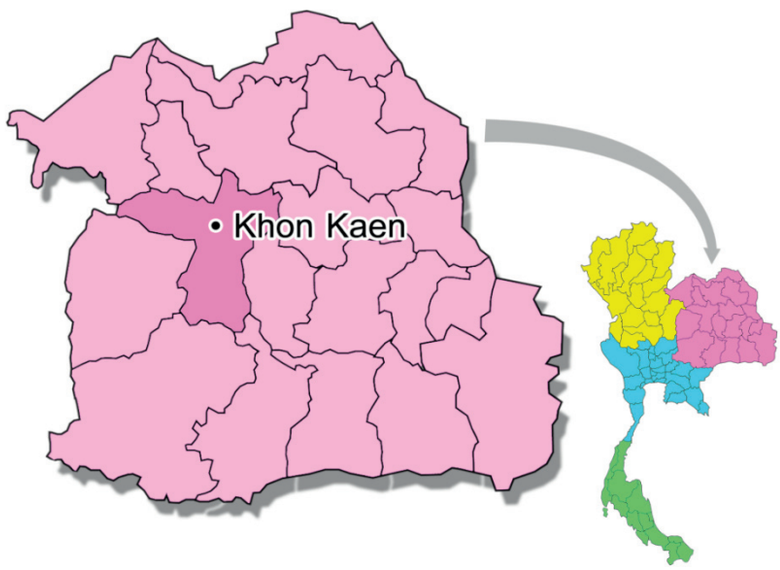
Site	Male			Female			ICD-10
	Cases 3 Years	%MV	%DCO	Cases 3 Years	%MV	%DCO	
Oral cavity	24	79.2	4.2	26	73.1	3.8	C00-C08
Oropharynx, etc	7	42.9	0.0	2	0.0	0.0	C09-C10,C14
Nasopharynx	39	79.5	0.0	12	83.3	0.0	C11
Hypopharynx	2	50.0	0.0	0	0.0	0.0	C12-C13
Oesophagus	13	61.5	0.0	2	50.0	0.0	C15
Stomach	38	47.4	5.3	18	72.2	5.6	C16
Small intestine	3	66.7	0.0	4	50.0	0.0	C17
Colon and rectum	102	62.7	4.9	93	60.2	8.6	C18-C21
Liver and bile duct	846	29.1	11.2	506	31.8	7.9	C22,C24
Gallbladder	27	40.7	7.4	20	65.0	10.0	C23
Pancreas	9	22.2	0.0	6	16.7	0.0	C25
Nose, sinuses etc	5	60.0	0.0	4	50.0	0.0	C30-C31
Larynx	12	83.3	8.3	7	57.1	0.0	C32
Bronchus, lung	157	45.9	8.9	99	54.5	7.1	C33-C34
Other thoracic organs	3	100.0	0.0	1	100.0	0.0	C37-C38
Bone	16	25.0	12.5	12	25.0	0.0	C40-C41
Melanoma of skin	4	100.0	0.0	1	100.0	0.0	C43
Other skin	16	93.8	0.0	17	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	8	87.5	0.0	12	91.7	0.0	C47,C49
Breast	3	66.7	0.0	227	90.3	0.4	C50
Vulva				2	100.0	0.0	C51
Vagina				1	100.0	0.0	C52
Cervix uteri				173	76.3	1.2	C53
Corpus uteri				32	87.5	0.0	C54
Uterus unspecified				10	10.0	20.0	C55
Ovary				41	61.0	0.0	C56
Other female genital				0	0.0	0.0	C57
Placenta				1	100.0	0.0	C58
Penis	8	75.0	0.0				C60
Prostate	20	55.0	0.0				C61
Testis	5	80.0	0.0				C62
Other male genital organs	1	100.0	0.0				C63
Kidney	8	62.5	0.0	2	50.0	0.0	C64
Renal pelvis	0	0.0	0.0	1	100.0	0.0	C65
Ureter	1	100.0	0.0	0	0.0	0.0	C66
Bladder	14	64.3	0.0	1	0.0	0.0	C67
Other urinary organs	0	0.0	0.0	0	0.0	0.0	C68
Eye	2	100.0	0.0	2	100.0	0.0	C69
Brain, nervous system	35	57.1	2.9	32	59.4	9.4	C70-72
Thyroid	36	77.8	0.0	53	69.8	0.0	C73
Adrenal gland	0	0.0	0.0	0	0.0	0.0	C74
Other endocrine	1	100.0	0.0	2	100.0	0.0	C75
Hodgkin's disease	3	100.0	0.0	6	100.0	0.0	C81
Non-Hodgkin lymph	37	97.3	2.7	22	90.9	9.1	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	4	100.0	0.0	4	100.0	0.0	C90
Leukemia	32	81.3	6.3	42	71.4	2.4	C91-C95
Other and unspecified	137	30.7	8.8	104	19.2	10.6	O&U
All sites	**1,678**	**43.1**	**8.2**	**1,600**	**56.6**	**5.1**	**ALL**

Khon Kaen Cancer Registry

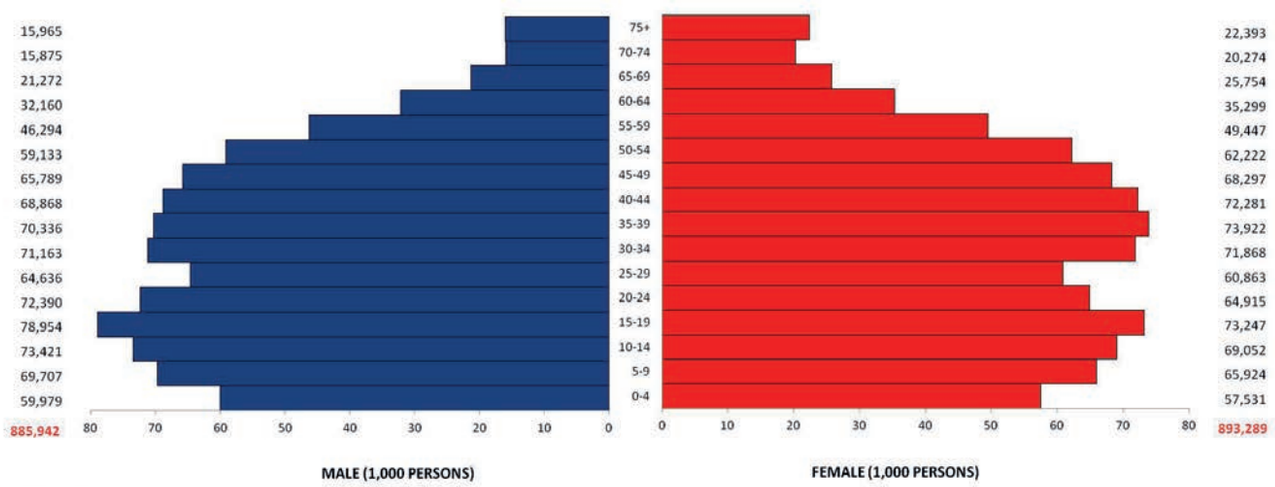
Registration area

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 1.7 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, 2008



Cancer care facilities

Most of the public hospitals in Khon Kaen belong to the Ministry of Health; others include a university hospital and an 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.

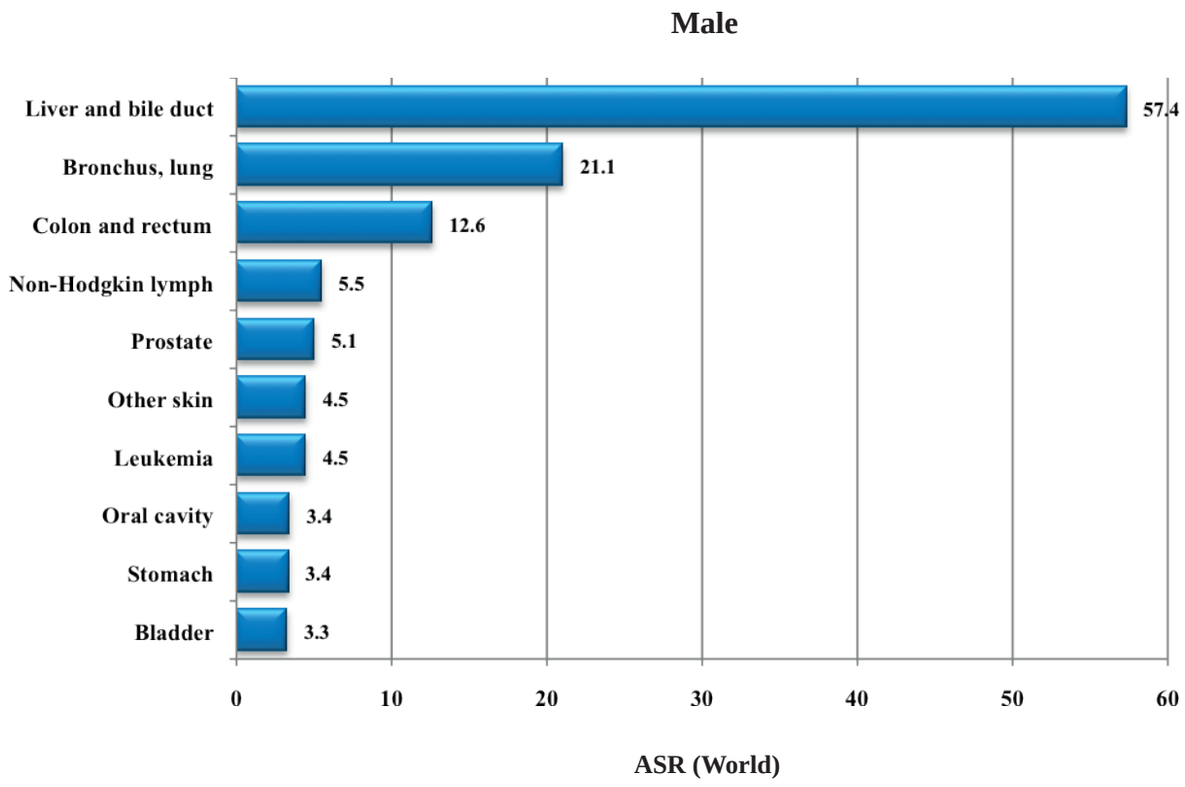
Registry procedures

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), 1 army 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 2008, 1,319 were males and 1,355 were females, making a total of 2,674 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males is 148.2 per 100,000 with liver and bile duct cancer ranking first (ASR = 57.4) followed by lung (ASR = 21.1) and colon and rectum (ASR = 12.6). The ASR for all cancer sites in females was 127.9, the three leading cancer in females being liver and bile duct (ASR = 23.1), breast (ASR = 21.7) and cervix (ASR = 15.1).

Figure 3.5 Leading cancer in Khon Kaen, 2008



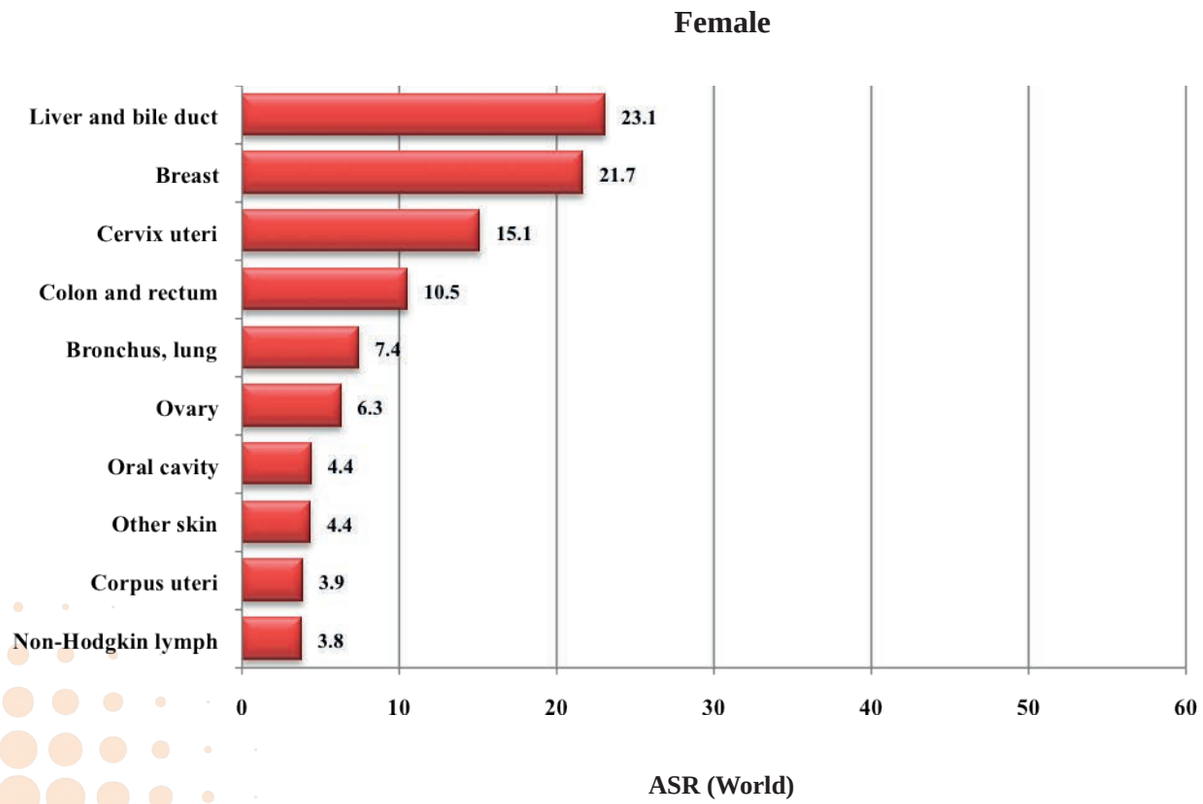


Table 3.5.1 Khon Kaen (2008), Annual Incidence per 100,000 by Age Group (years) -Male

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	0.0	0.0	0.5	0.6	0.7	4.1	0.0	2.1	2.1	0.3	0.3	C00
Tongue	15	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.9	1.9	3.0	4.5	2.9	3.1	6.3	12.6	6.3	1.7	1.5	C01-02
Mouth	11	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	2.5	2.8	6.5	3.1	3.1	12.6	4.2	1.3	1.2	C03-06
Salivary glands	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.1	2.9	2.1	1.6	0.0	4.2	0.5	0.4	C07-08
Tonsil	4	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	1.5	1.7	1.4	0.0	0.0	4.2	4.2	0.5	0.4	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	23	0.0	0.5	0.0	0.4	1.8	0.0	0.9	0.5	2.4	3.0	6.2	7.2	10.4	9.4	12.6	10.4	2.6	2.4	C11
Hypopharynx	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	2.5	0.6	2.2	2.1	3.1	2.1	4.2	0.7	0.7	C12-13
Pharynx unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	2.1	0.1	0.1	C14
Esophagus	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.5	3.4	5.0	9.3	0.0	2.1	16.7	1.3	1.2	C15
Stomach	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.4	4.1	5.6	10.1	14.5	15.7	25.2	33.4	3.5	3.4	C16
Small intestine	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.6	0.0	3.1	1.6	2.1	0.0	0.3	0.3	C17
Colon	65	0.0	0.0	0.0	0.4	0.0	0.0	0.0	3.3	5.3	7.1	11.3	20.2	31.1	40.7	33.6	85.6	7.3	7.2	C18
Rectum	45	0.0	0.0	0.0	0.0	0.5	0.0	0.0	1.4	2.4	5.1	10.7	15.8	21.8	32.9	37.8	33.4	5.1	5.0	C19-20
Anus	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	1.0	4.7	2.1	8.4	0.4	0.4	C21
Liver and bile duct	513	0.6	0.0	0.0	0.4	0.5	2.6	3.3	13.7	32.4	54.2	115.6	162.7	241.5	405.9	428.3	405.1	57.9	57.4	C22,C24
Gallbladder	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.7	0.7	1.0	6.3	10.5	14.6	0.9	0.9	C23
Pancreas	9	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.9	1.0	1.5	1.1	4.3	2.1	4.7	6.3	4.2	1.0	0.9	C25
Nose, sinuses etc.	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0	0.0	2.9	0.0	3.1	2.1	2.1	0.5	0.4	C30-31
Larynx	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.7	1.4	9.3	11.0	18.9	14.6	1.4	1.5	C32
Trachea, Bronchus, and lung	183	0.0	0.0	0.0	0.4	0.0	2.1	1.9	6.6	7.3	9.1	29.3	57.6	85.0	142.6	212.1	183.7	20.7	21.1	C33-34
Other thoracic organs	5	0.0	0.0	0.0	1.3	0.5	0.5	1.4	0.0	1.0	0.5	0.6	0.0	0.0	0.0	2.1	2.1	0.5	0.5	C37-38
Bone	6	0.0	0.0	0.0	1.7	0.5	0.5	0.5	0.5	0.5	0.0	0.6	1.4	3.1	3.1	0.0	4.2	0.7	0.7	C40-C41
Melanoma of skin	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	1.1	0.0	0.0	1.6	4.2	4.2	0.3	0.3	C43
Other skin	38	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.9	1.9	2.5	3.4	7.2	22.8	26.6	46.2	48.0	4.3	4.5	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	1.4	0.0	0.0	0.0	2.1	0.1	0.1	C45
Kaposi 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	9	0.6	0.0	0.0	0.4	0.5	0.0	0.5	1.4	0.0	1.0	1.7	5.0	2.1	3.1	6.3	4.2	1.1	1.0	C47,C49
Breast	3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0	0.5	0.6	0.0	0.0	3.1	2.1	2.1	0.4	0.4	C50
Penis	12	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	1.5	3.0	1.7	2.9	6.2	6.3	6.3	12.5	1.4	1.3	C60
Prostate	41	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	1.5	1.7	7.2	15.5	28.2	37.8	114.8	4.7	5.1	C61
Testis	4	0.0	0.0	0.0	0.4	0.5	0.5	0.9	0.9	0.5	0.5	0.0	1.4	0.0	0.0	2.1	0.0	0.5	0.4	C62
Other male genital organs	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	0.0	C63
Kidney	13	1.7	0.0	0.0	0.0	0.5	0.0	0.5	0.0	0.0	1.0	3.9	5.8	7.3	6.3	4.2	8.4	1.5	1.5	C64
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.1	0.1	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	0.0	1.6	2.1	0.0	0.1	0.1	C66
Bladder	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.4	0.5	2.8	7.9	12.4	21.9	27.3	45.9	3.2	3.3	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	1.1	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.3	0.4	C69
Brain, nervous system	13	1.7	1.9	2.7	0.0	0.0	1.0	1.4	1.9	0.5	1.5	0.6	5.8	1.0	0.0	0.0	6.3	1.5	1.5	C70-72
Thyroid	9	0.0	0.5	0.0	0.0	0.0	0.0	2.3	1.4	0.0	1.5	3.4	1.4	1.0	4.7	8.4	0.0	1.1	0.9	C73
Adrenal gland	1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	1.0	0.0	0.0	2.1	0.2	0.2	C74
Other endocrine	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	0.0	C75
Hodgkin disease	4	0.0	0.5	0.0	0.8	0.5	0.5	0.5	0.0	0.5	0.0	1.1	0.7	0.0	1.6	0.0	0.0	0.4	0.4	C81
Non-Hodgkin lymphoma	51	1.1	1.4	0.9	0.0	0.5	2.1	1.4	3.8	6.3	5.6	10.7	17.3	16.6	20.4	46.2	25.1	5.8	5.5	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.6	1.4	5.2	6.3	2.1	4.2	0.6	0.7	C90
Lymphoid leukemia	14	2.2	2.4	5.0	1.3	0.5	0.5	1.9	0.0	0.5	1.0	0.6	1.4	3.1	1.6	2.1	4.2	1.6	1.7	C91
Myeloid leukemia	22	1.7	1.0	0.0	0.0	0.9	1.0	0.9	1.4	1.0	3.5	2.3	6.5	5.2	17.2	12.6	16.7	2.5	2.5	C92-94
Leukemia unspecified	2	0.6	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.5	0.5	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.2	C95
Other and unspecified	72	0.0	0.0	0.5	0.0	0.9	1.0	2.3	3.8	4.4	7.1	13.5	18.0	35.2	64.2	58.8	50.1	8.2	8.2	O&U
All sites	**1,319**	**11.7**	**8.6**	**9.5**	**7.6**	**8.7**	**13.9**	**26.7**	**50.2**	**82.3**	**132.2**	**250.3**	**398.2**	**582.5**	**910.4**	**1098.2**	**1202.6**	**148.9**	**148.2**	**ALL**

Table 3.5.2 Khon Kaen (2008), Annual Incidence per 100,000 by Age Group (years) - 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	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.0	4.7	14.2	14.8	34.2	2.0	1.7	C00
Tongue	12	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.8	1.4	1.0	2.7	3.4	2.8	7.8	4.9	7.4	1.4	1.1	C01-02
Mouth	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.3	7.6	9.1	11.5	19.4	1.4	1.3	C03-06
Salivary glands	3	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.9	0.5	0.0	2.7	0.0	0.0	0.0	1.5	0.4	0.3	C07-08
Tonsil	2	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	4.9	1.5	0.2	0.2	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	13	0.0	0.0	0.0	0.0	0.0	1.1	0.9	1.4	1.4	4.4	2.7	4.0	2.8	2.6	3.3	3.0	1.5	1.2	C11
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	0.0	0.0	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	0.5	0.7	0.0	0.0	0.0	0.0	0.1	0.1	C14
Esophagus	3	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0	1.3	0.9	1.3	1.6	4.5	0.4	0.3	C15
Stomach	25	0.0	0.0	0.0	0.0	0.5	1.6	0.9	2.7	2.3	3.4	5.9	5.4	6.6	15.5	9.9	10.4	2.8	2.4	C16
Small intestine	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	1.3	0.0	1.3	0.0	0.0	0.2	0.1	C17
Colon	69	0.0	0.0	0.0	0.0	1.0	0.5	0.5	3.6	7.4	8.3	13.4	12.8	29.3	47.9	37.8	38.7	7.7	6.6	C18
Rectum	40	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	4.2	5.9	5.4	11.5	8.5	18.1	34.5	38.7	4.5	3.7	C19-20
Anus	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.0	1.3	0.0	1.5	0.2	0.2	C21
Liver and bile duct	238	0.0	0.0	0.0	0.0	1.0	0.0	1.4	4.1	7.4	18.1	32.1	58.6	100.1	154.0	198.9	229.2	26.6	23.1	C22,C24
Gallbladder	12	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.0	1.1	2.0	6.6	6.5	9.9	14.9	1.3	1.2	C23
Pancreas	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.0	0.0	2.7	1.9	2.6	3.3	6.0	0.8	0.6	C25
Nose, sinuses etc.	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.5	0.5	0.7	0.0	0.0	1.6	4.5	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	0.5	0.0	0.7	0.9	0.0	0.0	3.0	0.2	0.2	C32
Trachea, Bronchus, and lung	79	0.0	0.0	0.0	0.0	1.5	0.0	2.3	4.5	3.7	9.3	15.0	25.6	21.7	42.7	47.7	62.5	8.9	7.4	C33-34
Other thoracic organs	1	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.9	1.3	0.0	0.0	0.1	0.1	C37-38
Bone	7	0.6	0.5	0.0	0.9	0.0	0.0	0.9	0.0	0.5	1.0	2.1	1.3	0.9	2.6	1.6	1.5	0.7	0.7	C40-C41
Melanoma of skin	5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.5	3.2	1.3	0.9	0.0	4.9	1.5	0.6	0.5	C43
Other skin	45	0.0	0.0	0.0	0.0	0.5	0.5	1.4	0.5	0.5	3.4	6.4	7.4	15.1	28.5	37.8	55.1	5.0	4.4	C44
Mesothelioma	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	0.0	0.0	C45
Kaposi 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	9	0.0	0.0	0.0	0.9	0.0	0.0	0.5	0.9	2.3	0.5	0.5	1.3	0.0	9.1	1.6	6.0	1.0	0.8	C47,C49
Breast	241	0.0	0.0	0.0	0.0	0.0	4.9	12.5	37.9	42.4	60.0	58.9	63.4	75.5	67.3	44.4	35.7	26.9	21.7	C50
Vulva	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	1.1	0.7	0.9	3.9	8.2	4.5	0.7	0.6	C51
Vagina	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	4.0	0.0	0.0	0.0	1.5	0.4	0.3	C52
Cervix uteri	168	0.0	0.0	0.0	0.5	0.5	3.3	7.9	22.5	40.1	39.5	37.0	38.4	44.4	54.4	23.0	46.1	18.8	15.1	C53
Corpus uteri	43	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	3.2	5.4	15.0	24.3	14.2	18.1	13.2	4.5	4.8	3.9	C54
Uterus unspecified	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.7	0.0	2.6	0.0	0.0	0.2	0.2	C55
Ovary	67	0.0	1.0	1.9	1.8	2.6	0.5	3.7	6.8	9.2	17.1	12.9	14.8	21.7	15.5	18.1	23.8	7.5	6.3	C56
Other female genital	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	0.9	1.3	0.0	1.5	0.1	0.1	C57
Placenta	4	0.0	0.0	0.0	0.5	1.0	0.5	0.9	0.9	0.0	1.0	0.0	0.7	0.0	0.0	0.0	0.0	0.4	0.4	C58
Kidney	6	0.6	0.0	0.0	0.0	0.0	0.0	0.9	0.5	0.5	0.5	1.6	0.7	2.8	3.9	3.3	1.5	0.7	0.6	C64
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
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	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.1	0.0	1.9	5.2	3.3	6.0	0.6	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	1	1.2	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	C69
Brain, nervous system	12	1.2	1.5	1.4	0.5	0.5	0.5	0.5	2.7	1.8	2.4	0.5	0.7	0.9	2.6	3.3	1.5	1.3	1.3	C70-72
Thyroid	41	0.0	0.0	0.0	0.9	1.5	3.8	5.1	5.9	4.2	10.2	7.0	9.4	6.6	7.8	4.9	19.4	4.6	3.7	C73
Adrenal gland	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	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	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	4	0.0	0.0	0.5	0.0	0.5	1.6	0.0	0.5	0.5	0.0	0.5	1.3	1.9	1.3	0.0	0.0	0.5	0.5	C81
Non-Hodgkin lymphoma	40	0.0	0.0	0.0	0.5	1.5	2.2	2.3	4.1	5.1	6.3	5.4	6.1	10.4	12.9	19.7	34.2	4.5	3.8	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	11	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	1.1	4.0	4.7	6.5	6.6	13.4	1.2	1.1	C90
Lymphoid leukemia	10	2.3	0.5	1.9	1.4	0.0	0.0	0.9	0.9	0.0	0.0	2.1	0.7	2.8	5.2	3.3	1.5	1.2	1.2	C91
Myeloid leukemia	22	1.7	0.5	1.4	1.4	2.6	0.0	3.2	2.7	1.8	2.0	2.7	2.7	0.9	9.1	14.8	4.5	2.4	2.2	C92-94
Leukemia unspecified	2	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	4.5	0.3	0.3	C95
Other and unspecified	54	1.2	0.5	0.0	0.5	1.5	0.5	0.0	1.4	3.2	3.9	9.6	10.8	23.6	31.1	39.5	41.7	6.0	5.3	O&U
All sites	**1,355**	**9.3**	**5.6**	**7.2**	**9.6**	**19.0**	**24.1**	**48.7**	**109.6**	**151.3**	**212.3**	**252.3**	**332.3**	**426.8**	**616.1**	**636.3**	**790.4**	**151.7**	**127.9**	**ALL**

Table 3.5.3 Annual incidence, Khon Kaen, 2008

Site	Male						Female						ICD-10
	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world	Com. 0-64 (percent)	Rate. 0-74	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world	Com. 0-64 (percent)	Rate. 0-74	
Lip	3	0.2	0.3	0.3	0.0	0.0	18	1.3	2.0	1.7	0.0	0.2	C00
Tongue	15	1.1	1.7	1.5	0.1	0.2	12	0.9	1.4	1.1	0.1	0.1	C01-02
Mouth	11	0.9	1.3	1.2	0.1	0.2	13	0.9	1.4	1.3	0.0	0.1	C03-06
Salivary glands	4	0.3	0.5	0.4	0.0	0.0	3	0.2	0.4	0.3	0.0	0.0	C07-08
Tonsil	4	0.3	0.5	0.4	0.0	0.0	2	0.1	0.2	0.2	0.0	0.0	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	C10
Nasopharynx	23	1.7	2.6	2.4	0.2	0.3	13	1.0	1.5	1.2	0.1	0.1	C11
Hypopharynx	6	0.5	0.7	0.7	0.0	0.1	0	0.0	0.0	0.0	0.0	0.0	C12-13
Pharynx unspecified	1	0.1	0.1	0.1	0.0	0.0	1	0.0	0.1	0.1	0.0	0.0	C14
Esophagus	12	0.9	1.3	1.2	0.1	0.1	3	0.2	0.4	0.3	0.0	0.0	C15
Stomach	31	2.3	3.5	3.4	0.2	0.4	25	1.8	2.8	2.4	0.1	0.3	C16
Small intestine	2	0.2	0.3	0.3	0.0	0.0	2	0.1	0.2	0.1	0.0	0.0	C17
Colon	65	4.9	7.3	7.2	0.4	0.8	69	5.1	7.7	6.6	0.4	0.8	C18
Rectum	45	3.4	5.1	5.0	0.3	0.6	40	3.0	4.5	3.7	0.2	0.4	C19-20
Anus	3	0.3	0.4	0.4	0.0	0.0	2	0.1	0.2	0.2	0.0	0.0	C21
Liver and bile duct	513	38.9	57.9	57.4	3.1	7.3	238	17.6	26.6	23.1	1.1	2.9	C22,C24
Gallbladder	8	0.6	0.9	0.9	0.0	0.1	12	0.9	1.3	1.2	0.1	0.1	C23
Pancreas	9	0.7	1.0	0.9	0.1	0.1	7	0.5	0.8	0.6	0.0	0.1	C25
Nose, sinuses etc.	4	0.3	0.5	0.4	0.0	0.1	3	0.2	0.4	0.3	0.0	0.0	C30-31
Larynx	13	1.0	1.4	1.5	0.1	0.2	2	0.1	0.2	0.2	0.0	0.0	C32
Trachea, Bronchus, and lung	183	13.9	20.7	21.1	1.0	2.8	79	5.9	8.9	7.4	0.4	0.9	C33-34
Other thoracic organs	5	0.4	0.5	0.5	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C37-38
Bone	6	0.5	0.7	0.7	0.0	0.1	7	0.5	0.7	0.7	0.0	0.1	C40-C41
Melanoma of skin	3	0.2	0.3	0.3	0.0	0.0	5	0.4	0.6	0.5	0.0	0.1	C43
Other skin	38	2.9	4.3	4.5	0.2	0.6	45	3.3	5.0	4.4	0.2	0.5	C44
Mesothelioma	1	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi sarcoma	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	9	0.7	1.1	1.0	0.1	0.1	9	0.6	1.0	0.8	0.0	0.1	C47,C49
Breast	3	0.3	0.4	0.4	0.0	0.0	241	17.8	26.9	21.7	1.8	2.3	C50
Vulva							6	0.5	0.7	0.6	0.0	0.1	C51
Vagina							3	0.2	0.4	0.3	0.0	0.0	C52
Cervix uteri							168	12.4	18.8	15.1	1.2	1.6	C53
Corpus uteri							43	3.1	4.8	3.9	0.3	0.5	C54
Uterus unspecified							2	0.1	0.2	0.2	0.0	0.0	C55
Ovary							67	5.0	7.5	6.3	0.5	0.6	C56
Other female genital							1	0.1	0.1	0.1	0.0	0.0	C57
Placenta							4	0.3	0.4	0.4	0.0	0.0	C58
Penis	12	0.9	1.4	1.3	0.1	0.1							C60
Prostate	41	3.1	4.7	5.1	0.1	0.5							C61
Testis	4	0.3	0.5	0.4	0.0	0.0							C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0							C63
Kidney	13	1.0	1.5	1.5	0.1	0.2	6	0.5	0.7	0.6	0.0	0.1	C64
Renal pelvis	1	0.1	0.1	0.1	0.0	0.0	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	28	2.1	3.2	3.3	0.1	0.4	6	0.4	0.6	0.6	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	3	0.2	0.3	0.4	0.0	0.0	1	0.1	0.1	0.2	0.0	0.0	C69
Brain, nervous system	13	1.0	1.5	1.5	0.1	0.1	12	0.9	1.3	1.3	0.1	0.1	C70-72
Thyroid	9	0.7	1.1	0.9	0.1	0.1	41	3.0	4.6	3.7	0.3	0.3	C73
Adrenal gland	1	0.1	0.2	0.2	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	C75
Hodgkin disease	4	0.3	0.4	0.4	0.0	0.0	4	0.3	0.5	0.5	0.0	0.0	C81
Non-Hodgkin lymphoma	51	3.9	5.8	5.5	0.3	0.7	40	3.0	4.5	3.8	0.2	0.4	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	6	0.4	0.6	0.7	0.0	0.1	11	0.8	1.2	1.1	0.1	0.1	C90
Lymphoid leukemia	14	1.1	1.6	1.7	0.1	0.1	10	0.8	1.2	1.2	0.1	0.1	C91
Myeloid leukemia	22	1.7	2.5	2.5	0.1	0.3	22	1.6	2.4	2.2	0.1	0.2	C92-94
Leukemia unspecified	2	0.2	0.2	0.2	0.0	0.0	2	0.2	0.3	0.3	0.0	0.0	C95
Other and unspecified	72	5.5	8.2	8.2	0.4	1.0	54	4.0	6.0	5.3	0.3	0.6	O&U
All sites	**1,319**	**100.0**	**148.9**	**148.2**	**7.9**	**18.0**	**1,355**	**100.0**	**151.7**	**127.9**	**8.0**	**14.3**	**ALL**

Table 3.5.4 Percentage of morphologically verified and death certificate only cases, Khon Kaen, 2008

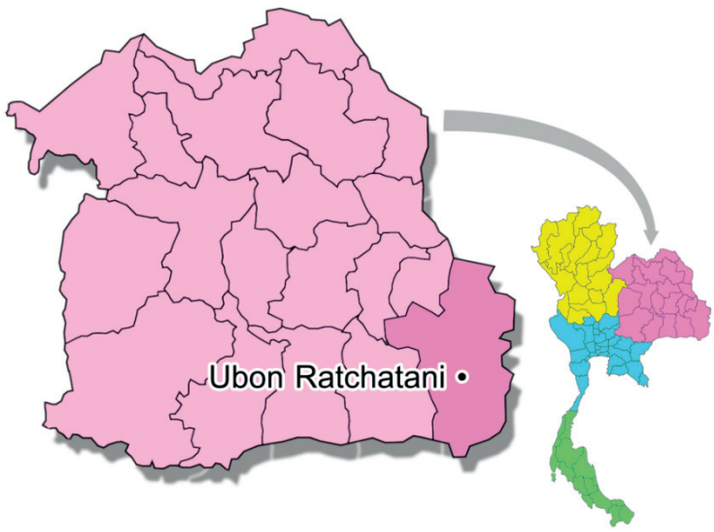
Site	Male			Female			ICD-10
	Cases 3 Years	%MV	%DCO	Cases 3 Years	%MV	%DCO	
Oral cavity	100	93.0	0.0	138	92.0	0.0	C00-C08
Oropharynx, etc	16	100.0	0.0	8	62.5	0.0	C09-C10,C14
Nasopharynx	68	91.2	0.0	39	84.6	0.0	C11
Hypopharynx	19	94.7	0.0	0	0.0	0.0	C12-C13
Oesophagus	35	85.7	0.0	10	70.0	0.0	C15
Stomach	92	80.4	2.2	75	77.3	1.3	C16
Small intestine	7	85.7	0.0	5	100.0	0.0	C17
Colon and rectum	340	72.6	0.3	331	76.4	0.0	C18-C21
Liver and bile duct	1539	9.4	3.8	714	10.6	2.5	C22,C24
Gallbladder	24	37.5	12.5	35	40.0	2.9	C23
Pancreas	26	26.9	0.0	21	28.6	0.0	C25
Nose, sinuses etc	12	100.0	0.0	10	100.0	0.0	C30-C31
Larynx	38	92.1	0.0	5	40.0	0.0	C32
Bronchus, lung	550	50.5	4.2	238	60.9	2.9	C33-C34
Other thoracic organs	14	85.7	0.0	4	50.0	0.0	C37-C38
Bone	19	63.2	15.8	20	60.0	15.0	C40-C41
Melanoma of skin	9	88.9	0.0	16	100.0	0.0	C43
Other skin	115	98.3	0.0	135	98.5	0.0	C44
Mesothelioma	3	100.0	0.0	1	100.0	0.0	C45
Kaposi sarcoma	0	0.0	0.0	0	0.0	0.0	C46
Connective and soft tissue	28	100.0	0.0	26	96.2	0.0	C47,C49
Breast	10	90.0	0.0	722	94.0	0.1	C50
Vulva				19	89.5	0.0	C51
Vagina				10	100.0	0.0	C52
Cervix uteri				503	91.8	0.2	C53
Corpus uteri				128	95.3	0.0	C54
Uterus unspecified				5	80.0	20.0	C55
Ovary				202	80.2	0.0	C56
Other female genital				4	75.0	0.0	C57
Placenta				11	72.7	0.0	C58
Penis	37	89.2	0.0				C60
Prostate	124	76.6	0.0				C61
Testis	12	83.3	0.0				C62
Other male genital organs	1	100.0	0.0				C63
Kidney	39	79.5	0.0	19	100.0	0.0	C64
Renal pelvis	2	100.0	0.0	0	0.0	0.0	C65
Ureter	2	100.0	0.0	0	0.0	0.0	C66
Bladder	84	88.1	0.0	17	82.4	0.0	C67
Other urinary organs	0	0.0	0.0	0	0.0	0.0	C68
Eye	8	87.5	0.0	4	100.0	0.0	C69
Brain, nervous system	39	66.7	10.3	35	77.1	0.0	C70-72
Thyroid	28	89.3	0.0	122	87.7	0.0	C73
Adrenal gland	4	50.0	0.0	1	100.0	0.0	C74
Other endocrine	1	100.0	0.0	1	0.0	0.0	C75
Hodgkin's disease	11	100.0	0.0	13	100.0	0.0	C81
Non-Hodgkin lymph	153	99.3	0.0	121	99.2	0.0	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	17	100.0	0.0	33	97.0	0.0	C90
Leukemia	114	99.1	0.0	103	97.1	0.0	C91-C95
Other and unspecified	217	42.4	10.1	161	44.7	10.6	O&U
All sites	**3,957**	**48.3**	**2.9**	**4,065**	**71.5**	**1.2**	**ALL**

Ubon Ratchathani Cancer Registry

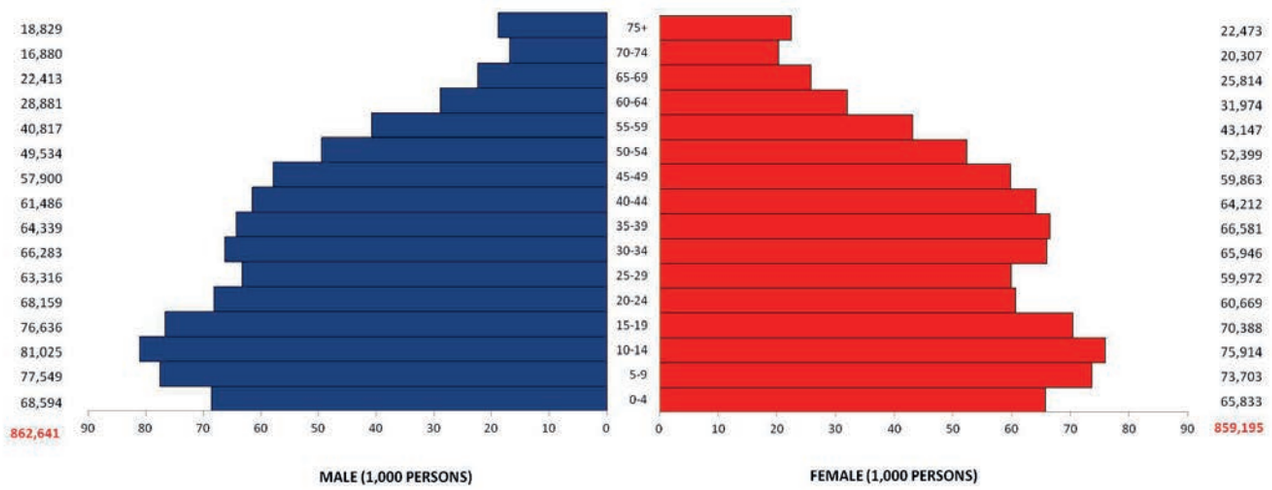
Registration area

Ubon Ratchathani is one of the northeastern provinces of Thailand, and the country's easternmost. It covers an area of 15,745 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 2,469 villages.

There were 1,721,836 people in the year 2008. Most are engaged in activities related to agriculture. They usually dwell in groups of houses, speaking their own dialects.



Population pyramid, Ubon Ratchathani, 2008



Cancer care facilities

The cancer care facilities in community hospitals (district hospitals) are limited to screening, provisional diagnosis and some palliative treatment. Most of the cancer patients and suspected cancer patients are referred to Sappasitthiprasong hospital (regional hospital) or Ubon Ratchathani cancer center. The Ubon Ratchathani cancer committee was established to facilitate the referral system between regional hospitals, the cancer center and community hospitals. Surgery, chemotherapy, radiation and palliative treatment are provided. There are also a military hospital and two private hospitals that can provide surgery and some chemotherapy.

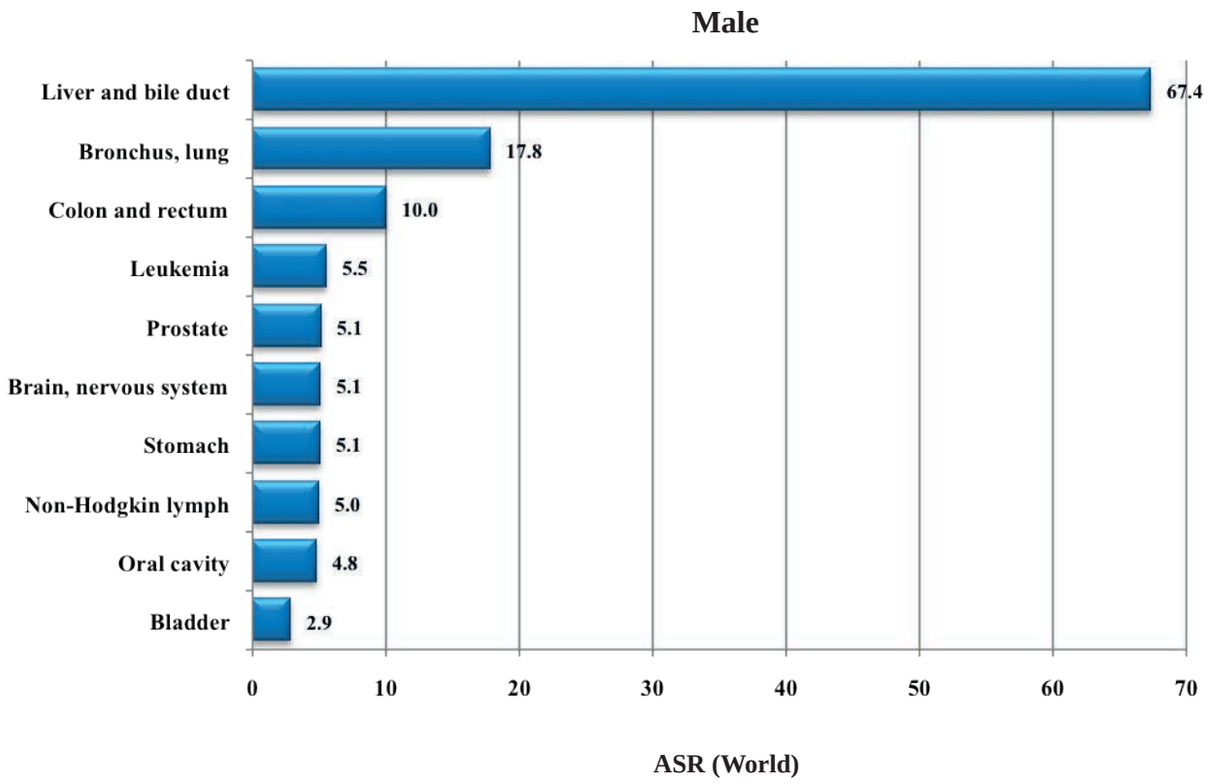
Registry procedures

The population–based cancer registry of Ubon Ratchathani was set up at Ubon Ratchathani cancer center. The sources of data are from all community hospitals, Sappasitthiprasong hospital, Ubon Ratchathani cancer center, the military hospital and the 2 private hospitals.

Summary of results

New cases registered in 2008, 1,498 were males and 1,408 were females, making 2,906 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males is 170.6 per 100,000 in which liver and bile duct cancer ranking first (ASR = 67.4) followed by lung (ASR = 17.8), and colon and rectum (ASR = 10.0). The ASR of all cancer sites in females was 143.2, the three leading cancer in females being liver and bile duct (ASR = 29.6), breast (ASR = 18.8) and cervix (ASR = 13.4).

Figure 3.6 Leading cancer in Ubon Ratchathani, 2008



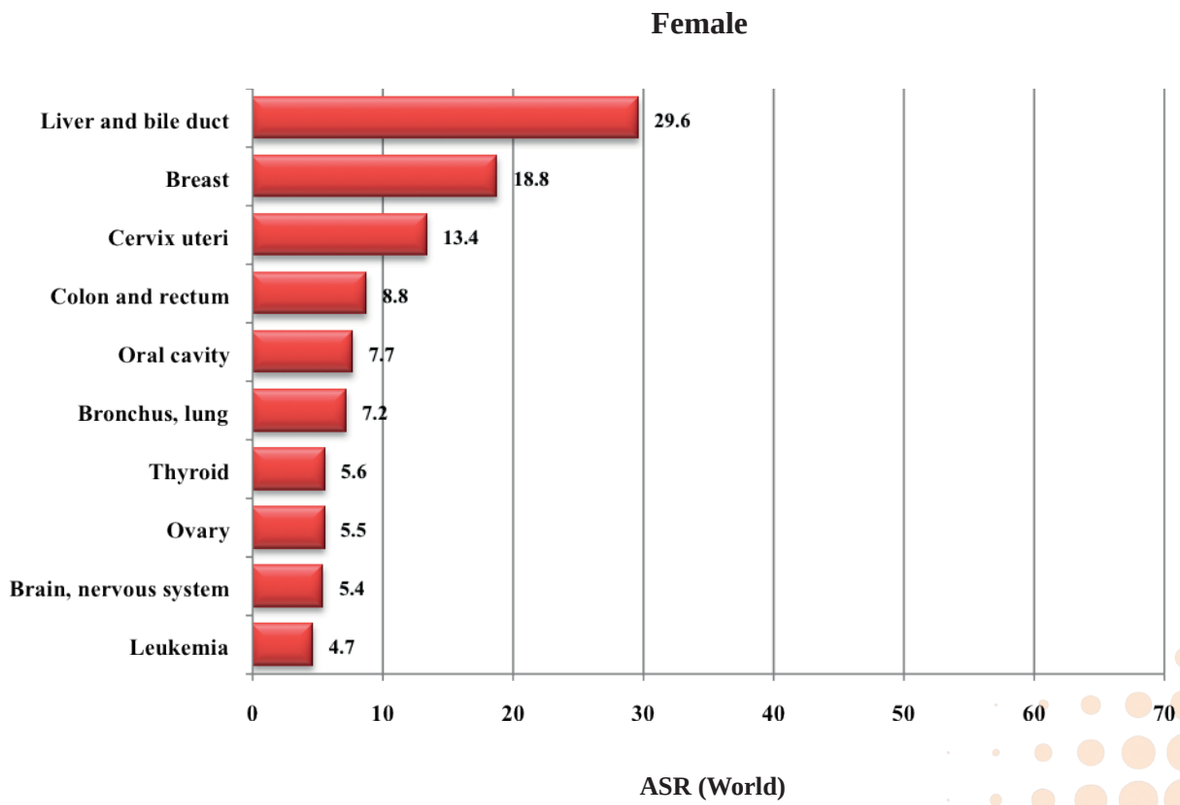


Table 3.6.1 Ubon Ratchathani (2008), Annual Incidence per 100,000 by Age Group (years) – Male

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	0.4	0.9	0.5	0.0	0.0	0.0	0.0	1.7	0.0	0.0	1.2	0.0	3.9	1.8	0.4	0.4	C00
Tongue	15	0.0	0.0	0.4	0.0	0.0	0.0	1.0	1.0	2.7	2.9	3.4	2.4	3.5	7.4	7.9	19.5	1.8	1.7	C01-02
Mouth	20	0.0	0.4	0.4	0.0	0.0	1.1	3.0	0.5	0.5	1.7	5.4	4.9	8.1	10.4	13.8	15.9	2.3	2.2	C03-06
Salivary glands	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.7	0.7	2.4	2.3	1.5	2.0	1.8	0.5	0.5	C07-08
Tonsil	5	0.5	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.7	0.8	1.2	1.5	2.0	5.3	0.6	0.6	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	0.0	0.0	5.3	0.1	0.1	C10
Nasopharynx	20	0.0	0.0	0.0	0.4	0.0	1.1	0.0	3.1	4.9	1.7	4.7	4.9	9.2	16.4	5.9	5.3	2.3	2.2	C11
Hypopharynx	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.7	0.8	3.5	4.5	7.9	7.1	0.7	0.7	C12-13
Pharynx unspecified	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.6	0.0	0.8	0.0	0.0	3.9	3.5	0.3	0.2	C14
Esophagus	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.7	4.0	4.9	4.6	7.4	13.8	7.1	1.5	1.4	C15
Stomach	45	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.6	4.9	1.7	9.4	14.7	17.3	26.8	25.7	65.5	5.3	5.1	C16
Small intestine	2	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	0.0	2.0	3.5	0.2	0.2	C17
Colon	51	0.0	0.0	0.0	0.0	0.5	0.5	2.0	3.6	3.8	4.0	11.4	10.6	20.8	28.3	41.5	67.3	5.9	5.7	C18
Rectum	36	0.0	0.0	0.4	0.0	0.0	0.5	0.0	1.6	2.7	3.5	5.4	12.2	11.5	28.3	29.6	44.3	4.2	4.1	C19-20
Anus	2	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	3.0	0.0	1.8	0.2	0.2	C21
Liver and bile duct	591	0.5	0.0	0.8	0.0	1.5	0.5	6.5	23.3	49.9	83.5	137.3	194.4	297.8	416.4	408.8	502.8	68.5	67.4	C22,C24
Gallbladder	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.7	6.1	1.6	5.8	22.3	27.6	33.6	2.6	2.6	C23
Pancreas	11	0.0	0.0	0.0	0.4	0.0	0.5	0.0	0.0	1.6	1.2	1.3	4.1	8.1	7.4	7.9	5.3	1.3	1.3	C25
Nose, sinuses etc.	7	0.0	0.0	0.4	0.4	0.5	1.1	0.0	0.0	0.0	1.7	0.7	0.8	2.3	3.0	2.0	8.9	0.8	0.8	C30-31
Larynx	11	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.5	0.6	2.0	2.4	4.6	7.4	11.8	15.9	1.3	1.3	C32
Trachea, Bronchus, and lung	156	0.0	0.0	0.0	0.4	0.5	0.5	1.5	4.1	14.6	21.3	32.3	36.7	73.9	101.1	136.3	170.0	18.1	17.8	C33-34
Other thoracic organs	8	0.0	0.0	0.4	0.9	0.5	1.1	0.0	1.0	0.5	0.0	1.3	1.6	4.6	1.5	3.9	7.1	0.9	0.9	C37-38
Bone	21	0.0	0.9	0.8	2.6	0.5	0.5	0.5	1.0	2.2	1.7	6.1	6.5	3.5	10.4	9.9	15.9	2.4	2.3	C40-C41
Melanoma of skin	5	0.0	0.0	0.0	0.0	0.0	0.5	1.0	0.0	0.0	1.7	1.3	0.0	1.2	0.0	5.9	5.3	0.6	0.5	C43
Other skin	25	0.0	0.0	0.0	0.9	0.0	1.1	0.5	2.1	2.7	1.2	4.7	3.3	5.8	16.4	17.8	40.7	2.9	2.8	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 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	8	1.0	0.4	0.0	0.4	0.0	0.5	0.5	0.5	2.2	0.6	1.3	1.6	4.6	1.5	5.9	0.0	0.9	0.9	C47,C49
Breast	7	0.0	0.0	0.0	0.0	0.5	0.0	0.0	1.0	1.1	0.0	2.7	1.6	3.5	3.0	5.9	1.8	0.8	0.7	C50
Penis	19	0.0	1.3	0.0	0.0	0.5	1.1	2.0	2.1	2.7	2.3	2.0	3.3	10.4	7.4	11.8	14.2	2.2	2.2	C60
Prostate	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.7	2.7	6.5	13.8	25.3	55.3	109.8	5.2	5.1	C61
Testis	10	0.0	0.0	0.0	1.3	0.0	2.1	2.5	2.6	0.5	1.2	2.0	1.6	2.3	1.5	2.0	0.0	1.1	1.0	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	1.2	0.0	0.0	0.0	0.0	0.0	C63
Kidney	15	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	1.2	4.0	7.3	8.1	14.9	5.9	7.1	1.8	1.8	C64
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
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	2.0	0.0	0.0	0.0	C66
Bladder	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.1	2.3	4.7	9.0	10.4	17.8	11.8	40.7	2.9	2.9	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	2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.8	0.0	0.0	2.0	1.8	0.2	0.2	C69
Brain, nervous system	45	0.5	1.7	6.2	3.9	1.5	2.6	1.5	5.2	7.0	5.2	5.4	9.0	15.0	17.8	9.9	26.6	5.3	5.1	C70-72
Thyroid	13	0.5	0.4	0.0	0.4	0.5	2.1	0.5	0.5	1.1	0.6	3.4	4.9	2.3	11.9	3.9	7.1	1.5	1.5	C73
Adrenal gland	2	1.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0	0.5	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.2	0.3	C74
Other endocrine	1	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	1.8	0.1	0.1	C75
Hodgkin disease	3	0.0	0.9	0.0	0.4	0.0	0.0	0.0	0.5	1.1	0.0	0.7	0.0	1.2	0.0	0.0	0.0	0.3	0.3	C81
Non-Hodgkin lymphoma	44	1.9	0.4	0.8	0.4	1.0	1.1	2.5	4.1	7.0	6.9	8.1	9.0	12.7	19.3	23.7	42.5	5.1	5.0	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	7	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	2.0	3.3	4.6	3.0	5.9	8.9	0.9	0.8	C90
Lymphoid leukemia	11	2.9	3.4	0.8	0.9	0.0	1.1	0.0	0.5	0.5	0.0	0.0	1.6	1.2	3.0	3.9	7.1	1.3	1.4	C91
Myeloid leukemia	18	2.4	0.0	0.8	0.9	1.5	1.6	0.5	1.6	1.6	1.7	1.3	2.4	8.1	8.9	3.9	15.9	2.1	2.2	C92-94
Leukemia unspecified	16	1.9	0.9	0.8	0.4	2.0	0.5	1.0	1.0	1.6	1.7	2.0	0.8	4.6	8.9	7.9	12.4	1.9	1.9	C95
Other and unspecified	122	1.9	0.9	1.2	0.4	2.0	0.5	4.0	6.2	7.0	14.4	14.8	46.5	58.9	69.9	84.9	131.0	14.2	13.9	O&U
All sites	**1,498**	**16.0**	**11.6**	**16.0**	**17.0**	**14.2**	**22.6**	**33.7**	**73.1**	**133.4**	**178.5**	**296.1**	**421.4**	**653.3**	**937.0**	**1038.7**	**1488.8**	**173.6**	**170.6**	**ALL**

Table 3.6.2 Ubon Ratchathani (2008), Annual Incidence per 100,000 by Age Group (years) – 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	28	0.0	0.0	0.4	0.0	0.0	0.6	0.0	0.0	0.5	1.1	1.3	3.1	10.4	20.7	34.5	40.0	3.3	2.9	C00
Tongue	10	0.0	0.0	0.4	0.9	0.0	0.0	0.0	1.0	2.1	2.2	1.3	1.5	4.2	3.9	0.0	7.4	1.1	1.0	C01-02
Mouth	30	1.0	1.4	0.4	0.5	1.6	1.1	1.5	1.5	2.6	2.2	1.9	5.4	4.2	10.3	26.3	35.6	3.5	3.1	C03-06
Salivary glands	8	0.0	0.0	0.0	0.0	0.0	0.6	2.5	1.5	1.0	1.1	0.6	2.3	1.0	3.9	0.0	3.0	0.9	0.8	C07-08
Tonsil	2	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.0	0.5	0.6	0.0	0.0	0.0	1.3	0.0	1.5	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	0.6	1.5	0.0	0.0	0.0	0.0	0.1	0.1	C10
Nasopharynx	8	0.0	0.0	0.0	0.0	1.1	0.0	0.5	0.5	1.6	1.7	4.5	0.8	1.0	2.6	0.0	3.0	0.9	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	0.0	0.8	0.0	1.3	3.3	0.0	0.2	0.1	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	1.6	4.4	0.2	0.1	C14
Esophagus	4	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	1.3	3.3	10.4	0.5	0.4	C15
Stomach	27	0.0	0.0	0.0	0.0	0.0	1.7	2.0	2.5	2.6	2.2	4.5	10.8	4.2	9.0	21.3	23.7	3.2	2.7	C16
Small intestine	5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	0.5	1.1	0.6	0.8	2.1	0.0	0.0	5.9	0.6	0.5	C17
Colon	54	0.0	0.0	0.0	0.9	0.0	1.1	2.0	3.5	6.2	5.6	10.2	13.1	24.0	27.1	32.8	41.5	6.3	5.5	C18
Rectum	31	0.0	0.0	0.0	0.5	0.0	0.6	2.0	1.0	3.6	5.0	6.4	7.0	11.5	11.6	19.7	25.2	3.6	3.1	C19-20
Anus	2	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	1.6	4.4	0.2	0.2	C21
Liver and bile duct	289	1.5	0.0	0.0	0.5	0.5	1.1	6.6	11.0	16.6	26.2	47.7	85.8	139.7	178.2	201.9	243.3	33.6	29.6	C22,C24
Gallbladder	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	2.5	3.1	11.5	11.6	16.4	20.8	2.3	2.0	C23
Pancreas	10	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.0	0.6	3.2	3.1	3.1	3.9	3.3	11.9	1.2	1.0	C25
Nose, sinuses etc.	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.6	2.3	1.0	0.0	0.0	1.5	0.3	0.2	C30-31
Larynx	4	0.0	0.0	0.0	0.5	0.5	0.6	0.0	0.0	1.0	0.0	0.6	0.0	2.1	0.0	0.0	4.4	0.4	0.4	C32
Trachea, Bronchus, and lung	72	0.0	0.0	0.0	0.0	0.0	1.7	1.0	7.0	6.2	10.0	13.4	19.3	18.8	41.3	52.5	56.4	8.3	7.2	C33-34
Other thoracic organs	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.8	1.0	0.0	0.0	1.5	0.2	0.2	C37-38
Bone	16	0.0	0.5	0.4	0.9	0.0	1.7	0.5	1.5	1.0	1.7	3.2	3.1	5.2	2.6	13.1	13.3	1.9	1.7	C40-C41
Melanoma of skin	6	0.0	0.0	0.0	0.0	0.0	0.6	0.5	0.0	0.0	1.7	0.6	0.8	1.0	2.6	3.3	7.4	0.7	0.6	C43
Other skin	34	0.5	0.0	0.0	0.5	0.0	0.6	1.5	1.0	0.5	3.3	2.5	11.6	12.5	20.7	16.4	44.5	4.0	3.5	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 sarcoma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	9	1.0	0.0	0.0	0.5	1.1	0.0	0.0	1.0	2.6	0.0	2.5	1.5	1.0	1.3	0.0	8.9	1.0	0.9	C47,C49
Breast	190	0.0	0.0	0.0	1.9	2.2	4.4	14.7	33.5	48.3	52.3	48.3	60.3	43.8	41.3	49.2	17.8	22.1	18.8	C50
Vulva	5	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.0	0.0	0.6	1.3	0.0	1.0	2.6	4.9	5.9	0.6	0.5	C51
Vagina	1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C52
Cervix uteri	135	0.0	0.0	0.0	0.0	1.1	3.9	9.6	25.0	33.7	27.8	31.2	44.0	34.4	34.9	36.1	37.1	15.8	13.4	C53
Corpus uteri	27	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.5	4.7	5.6	6.4	13.9	8.3	5.2	8.2	13.3	3.1	2.6	C54
Uterus unspecified	6	0.0	0.0	0.0	0.0	0.0	0.6	1.0	0.5	2.1	0.6	0.6	0.0	1.0	3.9	3.3	1.5	0.7	0.6	C55
Ovary	55	0.0	0.5	1.8	1.9	1.1	1.7	6.1	4.5	9.3	12.8	21.0	15.5	15.6	7.7	9.8	13.3	6.4	5.5	C56
Other female genital	1	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	0.0	3.0	0.2	0.1	C57
Placenta	1	0.0	0.0	0.0	0.0	0.5	0.0	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	C58
Kidney	7	1.5	0.0	0.0	0.0	0.5	0.0	0.5	1.0	0.5	2.2	0.6	0.8	1.0	5.2	1.6	0.0	0.8	0.8	C64
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
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	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.6	1.5	0.0	2.6	1.6	8.9	0.5	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	0.0	0.0	0.0	0.0	0.0	0.0	C68
Eye	3	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.5	0.0	0.6	0.8	0.0	1.3	1.6	3.0	0.3	0.3	C69
Brain, nervous system	53	1.5	2.7	1.3	1.9	1.1	1.1	4.5	7.5	14.0	11.1	8.9	10.0	12.5	11.6	8.2	20.8	6.1	5.4	C70-72
Thyroid	55	0.0	0.0	1.3	0.9	3.8	5.0	8.6	7.5	9.9	13.9	6.4	10.8	11.5	12.9	14.8	19.3	6.4	5.6	C73
Adrenal gland	1	0.5	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
Other endocrine	3	0.0	0.0	0.0	0.5	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.8	1.0	1.3	3.3	0.0	0.3	0.3	C75
Hodgkin disease	2	0.0	0.0	0.4	0.5	0.5	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C81
Non-Hodgkin lymphoma	30	0.5	0.0	0.0	0.5	1.6	1.7	3.0	1.5	2.1	2.8	10.8	7.7	8.3	6.5	16.4	22.2	3.5	3.1	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	3.2	3.9	3.1	1.3	0.0	3.0	0.7	0.6	C90
Lymphoid leukemia	9	2.5	0.0	0.4	0.0	1.1	1.7	0.5	1.0	1.6	0.0	0.6	0.0	1.0	6.5	0.0	3.0	1.0	1.1	C91
Myeloid leukemia	20	2.0	0.5	0.0	1.9	0.0	0.6	2.5	1.0	3.1	1.7	1.3	2.3	5.2	14.2	6.6	13.3	2.3	2.2	C92-94
Leukemia unspecified	12	2.0	0.0	1.3	1.4	0.5	1.7	1.0	1.5	1.0	0.6	1.9	2.3	0.0	2.6	3.3	7.4	1.4	1.4	C95
Other and unspecified	109	3.0	0.9	0.4	1.9	2.7	2.2	4.0	9.5	10.4	8.4	19.1	23.2	42.7	52.9	65.7	90.5	12.7	11.3	O&U
All sites	**1,408**	**17.7**	**6.3**	**8.8**	**18.9**	**22.5**	**38.4**	**82.4**	**135.7**	**193.6**	**213.3**	**272.3**	**377.0**	**450.4**	**569.5**	**686.1**	**903.3**	**163.9**	**143.2**	**ALL**

Table 3.6.3 Annual incidence, Ubon Ratchathani, 2008

Site	Male						Female						ICD-10
	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	
Lip	11	0.2	0.4	0.4	0.0	0.0	85	2.0	3.3	2.9	0.1	0.4	C00
Tongue	46	1.0	1.8	1.7	0.1	0.2	29	0.7	1.1	1.0	0.1	0.1	C01-02
Mouth	59	1.3	2.3	2.2	0.1	0.3	89	2.1	3.5	3.1	0.1	0.3	C03-06
Salivary gland	13	0.3	0.5	0.5	0.0	0.1	23	0.5	0.9	0.8	0.1	0.1	C07-08
Tonsil	15	0.3	0.6	0.6	0.0	0.0	7	0.2	0.3	0.2	0.0	0.0	C09
Other oropharynx	3	0.1	0.1	0.1	0.0	0.0	3	0.1	0.1	0.1	0.0	0.0	C10
Nasopharynx	59	1.3	2.3	2.2	0.2	0.3	23	0.5	0.9	0.8	0.1	0.1	C11
Hypopharynx	17	0.4	0.7	0.7	0.0	0.1	4	0.1	0.2	0.1	0.0	0.0	C12-13
Pharynx unspecified	7	0.2	0.3	0.2	0.0	0.0	4	0.1	0.2	0.1	0.0	0.0	C14
Oesophagus	38	0.8	1.5	1.4	0.1	0.2	12	0.3	0.5	0.4	0.0	0.0	C15
Stomach	136	3.0	5.3	5.1	0.3	0.5	82	1.9	3.2	2.7	0.2	0.3	C16
Small intestine	6	0.1	0.2	0.2	0.0	0.0	15	0.4	0.6	0.5	0.0	0.0	C17
Colon	153	3.4	5.9	5.7	0.3	0.6	162	3.8	6.3	5.5	0.3	0.6	C18
Rectum	108	2.4	4.2	4.1	0.2	0.5	92	2.2	3.6	3.1	0.2	0.3	C19-20
Anus	5	0.1	0.2	0.2	0.0	0.0	5	0.1	0.2	0.2	0.0	0.0	C21
Liver and bile duct	1,773	39.5	68.5	67.4	4.0	8.1	866	20.5	33.6	29.6	1.7	3.6	C22,C24
Gallbladder	68	1.5	2.6	2.6	0.1	0.3	58	1.4	2.3	2.0	0.1	0.2	C23
Pancreas	33	0.7	1.3	1.3	0.1	0.2	31	0.7	1.2	1.0	0.1	0.1	C25
Nose, sinuses etc	20	0.4	0.8	0.8	0.0	0.1	7	0.2	0.3	0.2	0.0	0.0	C30-31
Larynx	33	0.7	1.3	1.3	0.1	0.1	11	0.3	0.4	0.4	0.0	0.0	C32
Bronchus, lung	468	10.4	18.1	17.8	0.9	2.1	215	5.1	8.3	7.2	0.4	0.9	C33-34
Other thoracic organs	24	0.5	0.9	0.9	0.1	0.1	5	0.1	0.2	0.2	0.0	0.0	C37-38
Bone	63	1.4	2.4	2.3	0.1	0.2	49	1.2	1.9	1.7	0.1	0.2	C40-C41
Melanoma of skin	15	0.3	0.6	0.5	0.0	0.1	17	0.4	0.7	0.6	0.0	0.1	C43
Other skin	75	1.7	2.9	2.8	0.1	0.3	102	2.4	4.0	3.5	0.2	0.4	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi sarcoma	0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	C46
Connective and soft tissue	24	0.5	0.9	0.9	0.1	0.1	26	0.6	1.0	0.9	0.1	0.1	C47,C49
Breast	20	0.4	0.8	0.7	0.1	0.1	569	13.5	22.1	18.8	1.5	2.0	C50
Vulva							16	0.4	0.6	0.5	0.0	0.1	C51
Vagina							3	0.1	0.1	0.1	0.0	0.0	C52
Cervix uteri							406	9.6	15.8	13.4	1.1	1.4	C53
Corpus uteri							80	1.9	3.1	2.6	0.2	0.3	C54
Uterus unspecified							17	0.4	0.7	0.6	0.0	0.1	C55
Ovary							165	3.9	6.4	5.5	0.5	0.5	C56
Other female genital							4	0.1	0.2	0.1	0.0	0.0	C57
Placenta							4	0.1	0.2	0.1	0.0	0.0	C58
Penis	58	1.3	2.2	2.2	0.1	0.2							C60
Prostate	135	3.0	5.2	5.1	0.1	0.5							C61
Testis	29	0.6	1.1	1.0	0.1	0.1							C62
Other male genital organs	1	0.0	0.0	0.0	0.0	0.0							C63
Kidney	46	1.0	1.8	1.8	0.1	0.2	20	0.5	0.8	0.8	0.0	0.1	C64
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	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	C66
Bladder	76	1.7	2.9	2.9	0.1	0.3	14	0.3	0.5	0.4	0.0	0.0	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	5	0.1	0.2	0.2	0.0	0.0	8	0.2	0.3	0.3	0.0	0.0	C69
Brain, nervous system	136	3.0	5.3	5.1	0.3	0.5	158	3.7	6.1	5.4	0.4	0.5	C70-72
Thyroid	40	0.9	1.5	1.5	0.1	0.2	164	3.9	6.4	5.6	0.4	0.5	C73
Adrenal gland	6	0.1	0.2	0.3	0.0	0.0	2	0.0	0.1	0.1	0.0	0.0	C74
Other endocrine	2	0.0	0.1	0.1	0.0	0.0	8	0.2	0.3	0.3	0.0	0.0	C75
Hodgkin's disease	8	0.2	0.3	0.3	0.0	0.0	5	0.1	0.2	0.2	0.0	0.0	C81
Non-Hodgkin lymph	133	3.0	5.1	5.0	0.3	0.5	91	2.2	3.5	3.1	0.2	0.3	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	22	0.5	0.9	0.8	0.1	0.1	18	0.4	0.7	0.6	0.1	0.1	C90
Lymphoid leukaemia	33	0.7	1.3	1.4	0.1	0.1	26	0.6	1.0	1.1	0.1	0.1	C91
Myeloid leukaemia	54	1.2	2.1	2.2	0.1	0.2	60	1.4	2.3	2.2	0.1	0.2	C92-94
Leukemia unspecified	49	1.1	1.9	1.9	0.1	0.2	37	0.9	1.4	1.4	0.1	0.1	C95
Other and unspecified	367	8.2	14.2	13.9	0.8	1.6	327	7.7	12.7	11.3	0.6	1.2	O&U
All sites	**4,493**	**100.0**	**173.6**	**170.6**	**9.4**	**19.3**	**4,225**	**100.0**	**163.9**	**143.2**	**9.2**	**15.5**	**ALL**

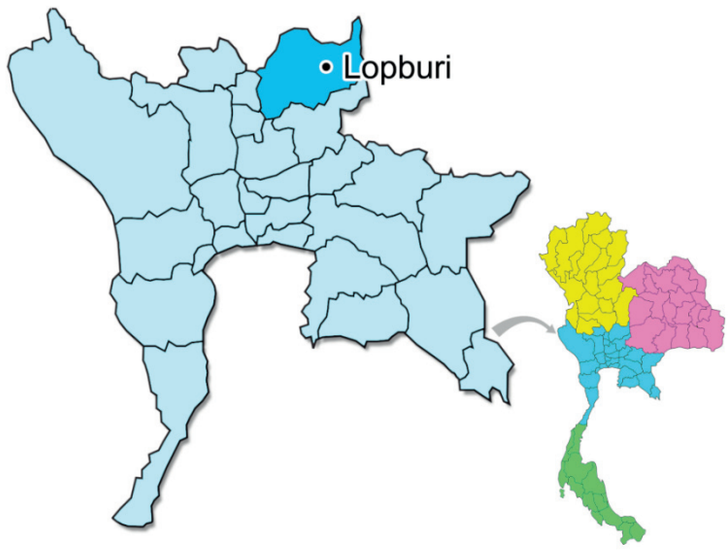
Table 3.6.4 Percentage of morphologically verified and death certificate only cases, Ubon **Ratchathani, 2008**

Site	Male			Female			ICD-10
	Cases 3 Years	%MV	%DCO	Cases 3 Years	%MV	%DCO	
Oral cavity	129	65.9	1.6	226	64.6	2.2	C00-C08
Oropharynx, etc	25	68.0	0.0	14	21.4	14.3	C09-C10,C14
Nasopharynx	59	89.8	0.0	23	87.0	0.0	C11
Hypopharynx	17	100.0	0.0	4	75.0	0.0	C12-C13
Oesophagus	38	57.9	2.6	12	66.7	0.0	C15
Stomach	136	66.9	2.9	82	65.9	9.8	C16
Small intestine	6	100.0	0.0	15	80.0	6.7	C17
Colon and rectum	266	66.5	3.4	259	65.3	3.1	C18-C21
Liver and bile duct	1773	4.9	13.1	866	5.9	12.0	C22,C24
Gallbladder	68	38.2	8.8	58	44.8	5.2	C23
Pancreas	33	24.2	0.0	31	19.4	3.2	C25
Nose, sinuses etc	20	65.0	5.0	7	42.9	0.0	C30-C31
Larynx	33	81.8	0.0	11	27.3	0.0	C32
Bronchus, lung	468	48.1	8.1	215	42.3	11.6	C33-C34
Other thoracic organs	24	70.8	4.2	5	100.0	0.0	C37-C38
Bone	63	15.9	19.0	49	14.3	24.5	C40-C41
Melanoma of skin	15	93.3	0.0	17	100.0	0.0	C43
Other skin	75	86.7	0.0	102	82.4	1.0	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	24	91.7	0.0	26	80.8	0.0	C47,C49
Breast	20	65.0	0.0	569	77.2	1.9	C50
Vulva				16	56.3	0.0	C51
Vagina				3	66.7	0.0	C52
Cervix uteri				406	64.3	2.5	C53
Corpus uteri				80	82.5	0.0	C54
Uterus unspecified				17	41.2	23.5	C55
Ovary				165	60.0	3.0	C56
Other female genital				4	75.0	25.0	C57
Placenta				4	100.0	0.0	C58
Penis	58	69.0	1.7				C60
Prostate	135	68.1	5.9				C61
Testis	29	58.6	0.0				C62
Other male genital organs	1	100.0	0.0				C63
Kidney	46	89.1	4.3	20	90.0	0.0	C64
Renal pelvis	0	0.0	0.0	0	0.0	0.0	C65
Ureter	1	100.0	0.0	0	0.0	0.0	C66
Bladder	76	80.3	1.3	14	64.3	7.1	C67
Other urinary organs	0	0.0	0.0	0	0.0	0.0	C68
Eye	5	60.0	0.0	8	50.0	0.0	C69
Brain, nervous system	136	38.2	6.6	158	43.0	5.1	C70-72
Thyroid	40	75.0	2.5	164	73.2	0.0	C73
Adrenal gland	6	66.7	0.0	2	50.0	50.0	C74
Other endocrine	2	50.0	0.0	8	12.5	0.0	C75
Hodgkin's disease	8	100.0	0.0	5	100.0	0.0	C81
Non-Hodgkin lymph	133	99.2	0.0	91	98.9	0.0	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	22	100.0	0.0	18	94.4	0.0	C90
Leukemia	136	80.9	6.6	123	80.5	9.8	C91-C95
Other and unspecified	367	43.9	16.6	327	42.2	15.6	O&U
All site	**4,493**	**39.4**	**8.9**	**4,225**	**51.8**	**6.5**	**ALL**

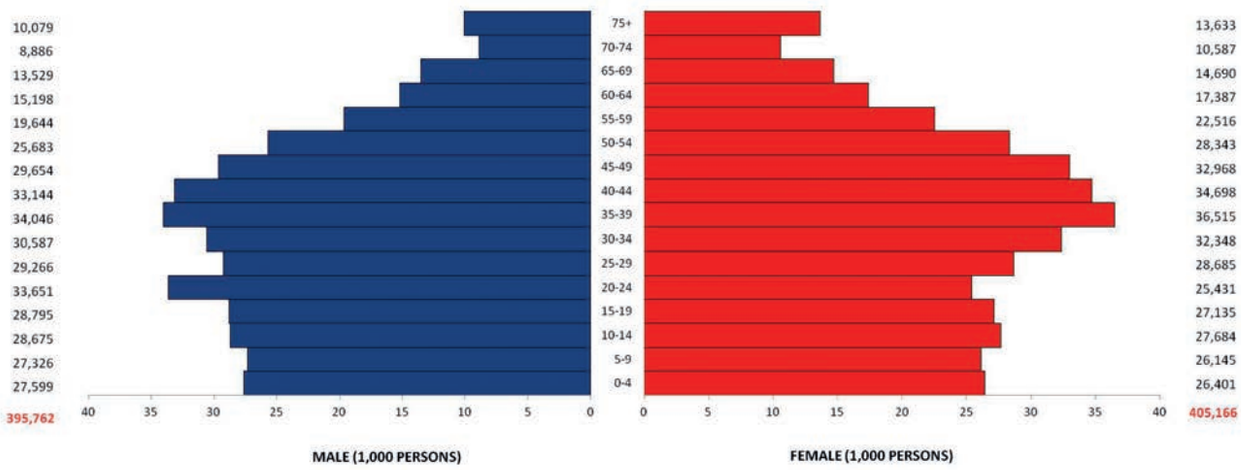
Lop Buri Cancer Registry

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 N and 100:37 E. The land area is 6,200 square kilometers and the Lopburi registry covers of 11 districts and a population estimated in 2008 at 800,928. Thirty percent of the area is a low plain and the remaining seventy percent is intermixed between plain and hills.



Population pyramid, Lop Buri, 2008



Cancer care facilities

The government of Thailand provides general health care in the region. Hospitals providing extensive cancer patient care include Lopburi cancer center, King Narai hospital, and Ananthamahidol (Army) Hospital. Facilities for surgery, chemotherapy, and radiotherapy are available. Two private hospitals, 1 Air Force hospital, and 10 community hospitals are capable of supplying basic care to cancer patients. As in other provinces in Thailand, an extensive network of health care facilities takes care of patients at the household level.

Registry procedures

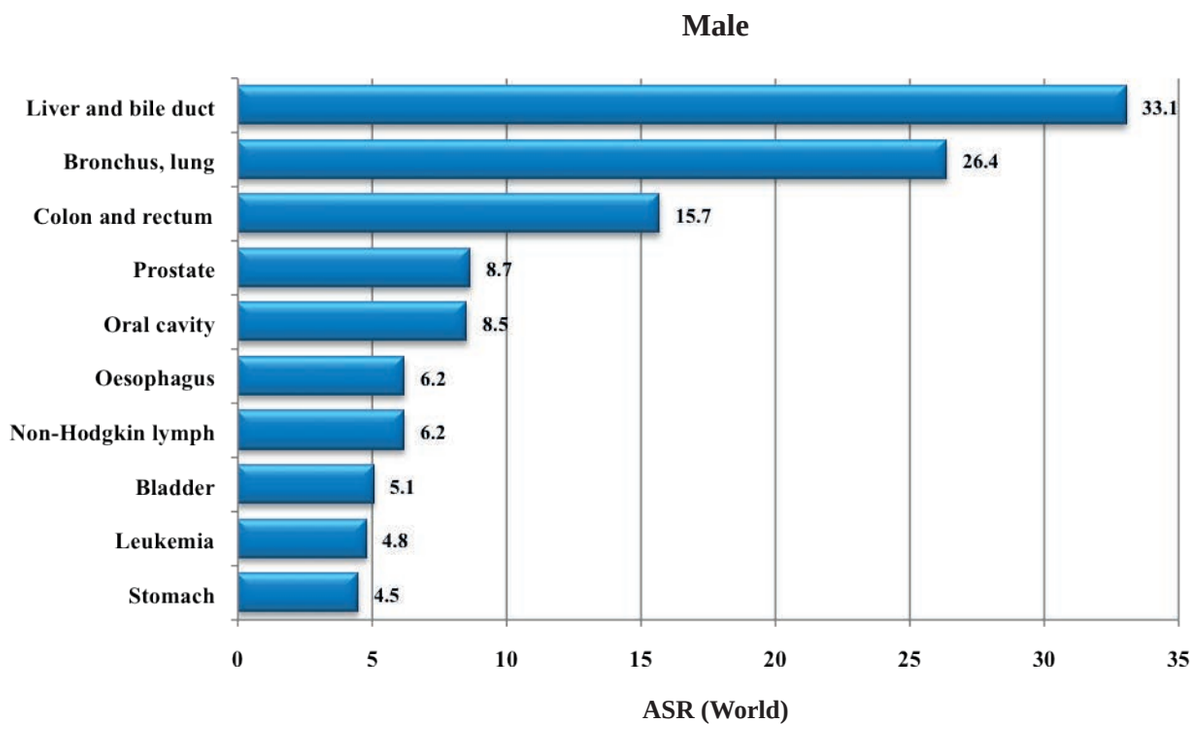
The registry is located within the Lopburi cancer center. The registry is staffed by one part - time medical doctor and a number of full - time registrars.

The Lopburi registry undertakes active case finding from sources of data consisting of the hospitals mentioned above. The completeness of death registration is acceptable but the cause of death data are not sufficiently 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.

Summary of results

New cases registered in 2008, 765 were males and 862 were females, making 1,627 for both sex. The age - standardized incidence rate (ASR) of all cancer sites in males is 164.7 per 100,000, liver and bile duct cancer ranking first (ASR = 33.1) followed by lung (ASR = 26.4) and colon and rectum (ASR = 15.6). The ASR of all cancer sites in females was 162.7, the three leading cancers being breast (ASR = 29.7), Cervix (ASR = 18.5) and liver and bile duct (ASR = 12.3).

Figure 3.7 Leading cancer in Lop Buri, 2008



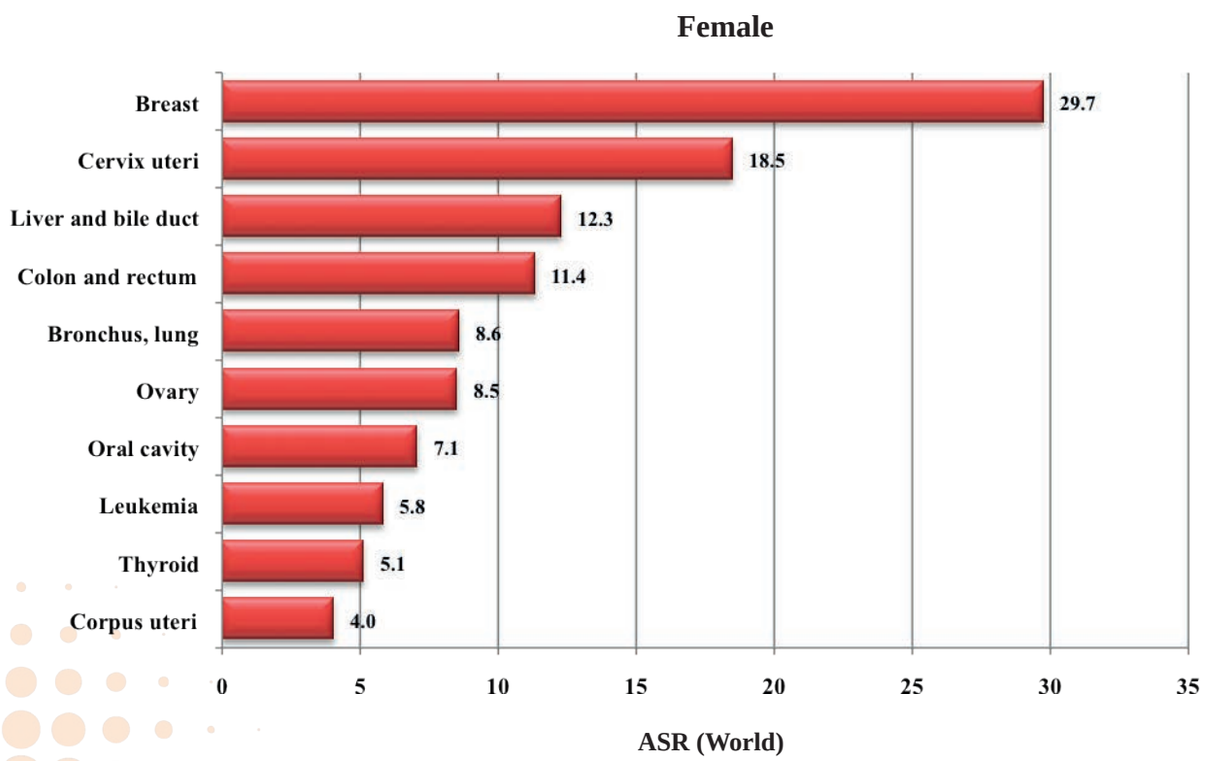


Table 3.7.1 Lop Buri (2008), Annual Incidence per 100,000 by Age Group (years) - Male

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	2.2	0.0	0.0	2.2	0.0	0.0	6.6	0.4	0.4	C00
Tongue	19	1.2	1.2	0.0	0.0	0.0	0.0	1.1	3.9	2.0	9.0	11.7	17.0	15.4	12.3	22.5	13.2	4.9	4.2	C01-02
Mouth	17	0.0	1.2	0.0	1.2	0.0	1.1	1.1	2.0	3.0	10.1	9.1	15.3	6.6	14.8	3.8	23.2	4.3	3.6	C03-06
Salivary glands	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	4.4	2.5	3.8	0.0	0.4	0.4	C07-08
Tonsil	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.1	3.9	1.7	6.6	4.9	3.8	9.9	1.3	1.1	C09
Other oropharynx	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.9	3.4	8.8	4.9	7.5	0.0	1.2	1.0	C10
Nasopharynx	9	0.0	0.0	0.0	1.2	0.0	0.0	0.0	1.0	2.0	5.6	5.2	6.8	4.4	9.9	11.3	3.3	2.3	1.9	C11
Hypopharynx	14	0.0	1.2	0.0	0.0	0.0	1.1	2.2	1.0	3.0	7.9	3.9	11.9	8.8	17.2	11.3	9.9	3.5	3.0	C12-13
Pharynx unspecified	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.7	2.2	0.0	0.0	6.6	0.4	0.3	C14
Esophagus	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	7.9	20.8	22.1	26.3	19.7	63.8	33.1	7.3	6.2	C15
Stomach	21	0.0	0.0	0.0	0.0	0.0	0.0	3.3	2.0	4.0	5.6	5.2	8.5	11.0	14.8	52.5	52.9	5.4	4.5	C16
Small intestine	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.7	0.0	4.9	0.0	3.3	0.4	0.3	C17
Colon	44	0.0	0.0	0.0	0.0	1.0	2.3	1.1	2.9	10.1	11.2	13.0	27.1	17.5	61.6	71.3	86.0	11.0	9.2	C18
Rectum	30	0.0	0.0	0.0	0.0	0.0	2.3	0.0	2.0	4.0	7.9	10.4	18.7	17.5	34.5	33.8	82.7	7.6	6.3	C19-20
Anus	1	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	0.0	3.3	0.2	0.1	C21
Liver and bile duct	157	0.0	0.0	0.0	0.0	1.0	0.0	5.4	20.6	35.2	59.6	79.2	117.1	131.6	135.5	210.1	178.6	39.6	33.1	C22,C24
Gallbladder	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	1.3	3.4	11.0	9.9	0.0	6.6	1.3	1.2	C23
Pancreas	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.2	2.6	5.1	6.6	2.5	11.3	26.5	1.9	1.6	C25
Nose, sinuses etc.	2	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.3	0.0	2.2	0.0	0.0	6.6	0.4	0.4	C30-31
Larynx	16	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	2.0	4.5	13.0	11.9	8.8	22.2	11.3	23.2	4.0	3.4	C32
Trachea, Bronchus, and lung	123	0.0	0.0	0.0	0.0	1.0	0.0	6.5	3.9	12.1	20.2	32.4	56.0	98.7	140.4	255.1	330.7	31.1	26.4	C33-34
Other thoracic organs	1	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	C37-38
Bone	7	2.4	1.2	2.3	0.0	0.0	0.0	0.0	1.0	4.0	0.0	1.3	5.1	4.4	4.9	7.5	6.6	1.9	1.8	C40-C41
Melanoma of skin	3	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	2.5	3.8	13.2	0.8	0.7	C43
Other skin	15	0.0	0.0	0.0	0.0	1.0	1.1	1.1	1.0	3.0	1.1	3.9	8.5	8.8	17.2	18.8	43.0	3.8	3.2	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 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	13	3.6	1.2	2.3	0.0	3.0	2.3	2.2	2.9	4.0	5.6	2.6	3.4	2.2	7.4	3.8	16.5	3.3	3.1	C47,C49
Breast	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.1	2.6	1.7	4.4	2.5	0.0	16.5	1.2	1.0	C50
Penis	7	0.0	0.0	0.0	1.2	0.0	0.0	0.0	1.0	2.0	3.4	3.9	1.7	0.0	12.3	3.8	9.9	1.7	1.4	C60
Prostate	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.1	5.2	1.7	19.7	59.1	93.8	188.5	10.3	8.7	C61
Testis	3	0.0	0.0	0.0	1.2	3.0	1.1	0.0	0.0	0.0	2.2	1.3	0.0	0.0	2.5	0.0	0.0	0.8	0.7	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	6	0.0	0.0	0.0	0.0	0.0	1.1	2.2	1.0	1.0	3.4	0.0	3.4	0.0	9.9	3.8	6.6	1.4	1.2	C64
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	2.5	0.0	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	0.0	0.0	0.0	C66
Bladder	24	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0	2.0	3.4	6.5	11.9	11.0	24.6	52.5	79.4	6.1	5.1	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	1.3	0.0	0.0	0.0	0.0	3.3	0.2	0.1	C69
Brain, nervous system	12	0.0	2.4	3.5	0.0	1.0	0.0	3.3	1.0	4.0	5.6	9.1	1.7	4.4	7.4	7.5	6.6	3.0	2.7	C70-72
Thyroid	5	0.0	0.0	0.0	0.0	1.0	0.0	1.1	0.0	4.0	1.1	1.3	3.4	4.4	4.9	0.0	6.6	1.3	1.1	C73
Adrenal gland	1	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	2.2	0.0	0.0	0.0	0.3	0.3	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	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.3	0.2	C81
Non-Hodgkin lymphoma	28	1.2	1.2	0.0	1.2	2.0	4.6	0.0	8.8	3.0	7.9	10.4	11.9	24.1	22.2	48.8	26.5	7.1	6.2	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5.1	4.4	2.5	0.0	6.6	0.8	0.7	C90
Lymphoid leukemia	4	3.6	2.4	1.2	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	3.8	3.3	1.1	1.3	C91
Myeloid leukemia	6	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	2.2	3.9	0.0	2.2	12.3	11.3	6.6	1.4	1.2	C92-94
Leukemia unspecified	10	3.6	0.0	0.0	0.0	0.0	1.1	3.3	1.0	0.0	3.4	0.0	0.0	8.8	7.4	7.5	29.8	2.4	2.3	C95
Other and unspecified	59	6.0	2.4	4.6	1.2	4.0	5.7	4.4	9.8	10.1	23.6	26.0	37.3	35.1	46.8	48.8	69.5	14.9	13.1	O&U
All sites	**765**	**21.7**	**14.6**	**15.1**	**8.1**	**19.8**	**26.2**	**40.3**	**74.4**	**124.7**	**227.1**	**298.5**	**434.4**	**526.4**	**761.3**	**1087.9**	**1445.2**	**193.2**	**164.7**	**ALL**

Table 3.7.2 Lop Buri (2008), Annual Incidence per 100,000 by Age Group (years) – 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	10	0.0	2.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.9	4.5	18.9	39.1	2.5	1.9	C00
Tongue	7	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.9	1.9	2.0	2.4	4.4	5.8	9.1	0.0	7.3	1.8	1.5	C01-02
Mouth	16	3.8	2.5	0.0	2.5	0.0	1.2	1.0	1.8	1.9	2.0	4.7	3.0	1.9	6.8	37.8	26.9	3.9	3.4	C03-06
Salivary glands	2	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.0	1.0	0.0	0.0	1.9	0.0	3.1	0.0	0.4	0.4	C07-08
Tonsil	1	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	2.3	0.0	0.0	0.3	0.3	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	0.0	6.3	0.0	0.2	0.1	C10
Nasopharynx	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	2.9	4.0	0.0	10.4	1.9	0.0	0.0	0.0	1.4	1.0	C11
Hypopharynx	5	1.3	0.0	2.4	0.0	0.0	0.0	0.0	0.0	1.0	4.0	1.2	3.0	3.8	0.0	3.1	2.4	1.2	1.1	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	2.3	0.0	2.4	0.2	0.1	C14
Esophagus	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	4.4	7.7	4.5	0.0	7.3	1.2	0.9	C15
Stomach	13	0.0	0.0	0.0	0.0	1.3	0.0	2.1	2.7	2.9	6.1	3.5	7.4	7.7	9.1	15.7	4.9	3.1	2.4	C16
Small intestine	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.4	0.0	0.0	9.1	0.0	0.0	0.6	0.5	C17
Colon	42	0.0	0.0	0.0	0.0	2.6	0.0	3.1	1.8	9.6	12.1	22.3	16.3	26.8	36.3	37.8	58.7	10.3	7.7	C18
Rectum	19	0.0	0.0	0.0	0.0	0.0	1.2	1.0	2.7	3.8	5.1	4.7	13.3	11.5	11.3	28.3	22.0	4.6	3.4	C19-20
Anus	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	3.8	0.0	0.0	2.4	0.3	0.3	C21
Liver and bile duct	67	0.0	0.0	0.0	0.0	0.0	2.3	2.1	1.8	6.7	16.2	23.5	26.6	57.5	54.5	100.8	114.9	16.5	12.3	C22,C24
Gallbladder	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	3.8	4.5	3.1	12.2	0.8	0.6	C23
Pancreas	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.0	1.2	3.0	7.7	6.8	0.0	9.8	1.6	1.2	C25
Nose, sinuses etc.	1	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	1.0	0.0	1.5	1.9	0.0	0.0	0.0	0.3	0.3	C30-31
Larynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	3.0	1.9	0.0	0.0	4.9	0.5	0.4	C32
Trachea, Bronchus, and lung	47	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.7	2.9	8.1	15.3	31.1	26.8	49.9	75.6	80.7	11.7	8.6	C33-34
Other thoracic organs	1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	C37-38
Bone	4	0.0	0.0	0.0	0.0	1.3	1.2	2.1	0.0	1.0	2.0	0.0	0.0	5.8	2.3	0.0	2.4	1.0	0.8	C40-C41
Melanoma of skin	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	1.5	3.8	2.3	3.1	2.4	0.7	0.5	C43
Other skin	20	0.0	0.0	0.0	0.0	0.0	2.3	1.0	0.0	0.0	2.0	5.9	5.9	11.5	15.9	34.6	51.3	4.9	3.6	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 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	14	3.8	1.3	1.2	0.0	1.3	1.2	6.2	2.7	1.0	3.0	7.1	3.0	5.8	2.3	15.7	12.2	3.5	3.0	C47,C49
Breast	162	0.0	0.0	0.0	0.0	0.0	12.8	16.5	36.5	68.2	104.1	96.4	79.9	69.0	61.3	63.0	66.0	40.1	29.7	C50
Vulva	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.5	1.9	0.0	0.0	4.9	0.4	0.3	C51
Vagina	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.4	1.5	0.0	2.3	3.1	0.0	0.5	0.4	C52
Cervix uteri	101	0.0	0.0	0.0	0.0	0.0	1.2	12.4	34.7	30.7	58.6	42.3	57.7	57.5	43.1	63.0	46.5	25.0	18.5	C53
Corpus uteri	21	0.0	0.0	0.0	0.0	0.0	1.2	1.0	0.9	5.8	9.1	14.1	19.2	21.1	9.1	12.6	4.9	5.3	4.0	C54
Uterus unspecified	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.0	0.0	1.2	3.0	0.0	4.5	0.0	0.0	0.6	0.4	C55
Ovary	44	0.0	0.0	1.2	6.1	3.9	4.6	9.3	7.3	15.4	19.2	25.9	19.2	13.4	27.2	22.0	12.2	10.8	8.5	C56
Other female genital	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.5	0.0	0.0	0.0	0.0	0.2	0.1	C57
Placenta	1	0.0	0.0	0.0	0.0	1.3	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C58
Kidney	3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.0	2.4	0.0	3.8	0.0	3.1	0.0	0.7	0.6	C64
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
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	3.1	0.0	0.1	0.1	C66
Bladder	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.5	3.0	5.8	9.1	9.4	9.8	1.6	1.2	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	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.5	0.0	2.3	3.1	0.0	0.5	0.6	C69
Brain, nervous system	13	1.3	2.5	1.2	0.0	1.3	1.2	2.1	1.8	3.8	7.1	4.7	4.4	1.9	13.6	6.3	4.9	3.2	2.7	C70-72
Thyroid	26	0.0	0.0	1.2	1.2	3.9	8.1	6.2	8.2	7.7	12.1	9.4	7.4	5.8	11.3	15.7	12.2	6.4	5.1	C73
Adrenal gland	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	2.4	0.2	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	0.0	0.0	0.0	0.0	2.4	0.1	0.0	C75
Hodgkin disease	1	0.0	0.0	0.0	0.0	1.3	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C81
Non-Hodgkin lymphoma	21	0.0	0.0	1.2	0.0	0.0	1.2	2.1	5.5	6.7	4.0	2.4	14.8	5.8	18.2	22.0	29.3	5.2	3.8	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	1.5	0.0	2.3	6.3	0.0	0.5	0.4	C90
Lymphoid leukemia	4	2.5	2.5	0.0	0.0	2.6	1.2	0.0	1.8	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.2	C91
Myeloid leukemia	12	5.1	0.0	1.2	1.2	1.3	0.0	2.1	2.7	1.0	2.0	1.2	8.9	1.9	4.5	12.6	14.7	2.9	2.6	C92-94
Leukemia unspecified	10	1.3	0.0	2.4	1.2	0.0	0.0	2.1	0.9	1.9	2.0	1.2	1.5	1.9	9.1	25.2	12.2	2.6	2.1	C95
Other and unspecified	127	1.3	1.3	0.0	3.7	13.1	13.9	16.5	33.8	86.5	88.0	52.9	31.1	19.2	25.0	40.9	56.2	31.3	23.6	O&U
All sites	**862**	**24.0**	**12.7**	**14.4**	**18.4**	**39.3**	**55.8**	**93.8**	**156.1**	**269.0**	**389.3**	**363.4**	**395.3**	**410.3**	**476.5**	**699.0**	**743.3**	**212.8**	**162.7**	**ALL**

Table 3.7.3 Annual incidence, Lop Buri, 2008

Site	Male						Female						ICD-10
	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	
Lip	2	0.2	0.4	0.4	0.0	0.0	10	1.2	2.5	1.9	0.0	0.2	C00
Tongue	19	2.5	4.9	4.2	0.3	0.5	7	0.9	1.8	1.5	0.1	0.1	C01-02
Mouth	17	2.2	4.3	3.6	0.3	0.3	16	1.9	3.9	3.4	0.1	0.4	C03-06
Salivary glands	2	0.2	0.4	0.4	0.0	0.1	2	0.2	0.4	0.4	0.0	0.0	C07-08
Tonsil	5	0.7	1.3	1.1	0.1	0.1	1	0.2	0.3	0.3	0.0	0.0	C09
Other oropharynx	5	0.6	1.2	1.0	0.1	0.1	1	0.1	0.2	0.1	0.0	0.0	C10
Nasopharynx	9	1.2	2.3	1.9	0.1	0.2	6	0.7	1.4	1.0	0.1	0.1	C11
Hypopharynx	14	1.8	3.5	3.0	0.2	0.3	5	0.6	1.2	1.1	0.1	0.1	C12-13
Pharynx unspecified	2	0.2	0.4	0.3	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C14
Esophagus	29	3.8	7.3	6.2	0.4	0.8	5	0.6	1.2	0.9	0.1	0.1	C15
Stomach	21	2.8	5.4	4.5	0.2	0.5	13	1.5	3.1	2.4	0.2	0.3	C16
Small intestine	2	0.2	0.4	0.3	0.0	0.0	2	0.3	0.6	0.5	0.0	0.1	C17
Colon	44	5.7	11.0	9.2	0.4	1.1	42	4.8	10.3	7.7	0.5	0.8	C18
Rectum	30	3.9	7.6	6.3	0.3	0.7	19	2.2	4.6	3.4	0.2	0.4	C19-20
Anus	1	0.1	0.2	0.1	0.0	0.0	1	0.2	0.3	0.3	0.0	0.0	C21
Liver and bile duct	157	20.5	39.6	33.1	2.2	4.0	67	7.7	16.5	12.3	0.7	1.5	C22,C24
Gallbladder	5	0.7	1.3	1.2	0.1	0.1	3	0.4	0.8	0.6	0.0	0.1	C23
Pancreas	8	1.0	1.9	1.6	0.1	0.2	6	0.7	1.6	1.2	0.1	0.1	C25
Nose, sinuses etc.	2	0.2	0.4	0.4	0.0	0.0	1	0.2	0.3	0.3	0.0	0.0	C30-31
Larynx	16	2.1	4.0	3.4	0.2	0.4	2	0.2	0.5	0.4	0.0	0.0	C32
Trachea, Bronchus, and lung	123	16.1	31.1	26.4	1.2	3.1	47	5.5	11.7	8.6	0.4	1.1	C33-34
Other thoracic organs	1	0.1	0.3	0.2	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C37-38
Bone	7	1.0	1.9	1.8	0.1	0.2	4	0.5	1.0	0.8	0.1	0.1	C40-C41
Melanoma of skin	3	0.4	0.8	0.7	0.0	0.0	3	0.3	0.7	0.5	0.0	0.1	C43
Other skin	15	2.0	3.8	3.2	0.1	0.3	20	2.3	4.9	3.6	0.1	0.4	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi sarcoma	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	13	1.7	3.3	3.1	0.2	0.2	14	1.6	3.5	3.0	0.2	0.3	C47,C49
Breast	5	0.6	1.2	1.0	0.1	0.1	162	18.8	40.1	29.7	2.4	3.0	C50
Vulva							2	0.2	0.4	0.3	0.0	0.0	C51
Vagina							2	0.2	0.5	0.4	0.0	0.1	C52
Cervix uteri							101	11.8	25.0	18.5	1.5	2.0	C53
Corpus uteri							21	2.5	5.3	4.0	0.4	0.5	C54
Uterus unspecified							2	0.3	0.6	0.4	0.0	0.1	C55
Ovary							44	5.1	10.8	8.5	0.6	0.9	C56
Other female genital							1	0.1	0.2	0.1	0.0	0.0	C57
Placenta							1	0.1	0.2	0.2	0.0	0.0	C58
Penis	7	0.9	1.7	1.4	0.1	0.1							C60
Prostate	41	5.3	10.3	8.7	0.1	0.9							C61
Testis	3	0.4	0.8	0.7	0.0	0.1							C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0							C63
Kidney	6	0.7	1.4	1.2	0.1	0.1	3	0.3	0.7	0.6	0.0	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
Ureter	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.1	0.0	0.0	C66
Bladder	24	3.1	6.1	5.1	0.2	0.6	7	0.8	1.6	1.2	0.1	0.2	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	0.2	0.1	0.0	0.0	2	0.2	0.5	0.6	0.0	0.1	C69
Brain, nervous system	12	1.6	3.0	2.7	0.2	0.3	13	1.5	3.2	2.7	0.2	0.3	C70-72
Thyroid	5	0.7	1.3	1.1	0.1	0.1	26	3.0	6.4	5.1	0.4	0.5	C73
Adrenal gland	1	0.1	0.3	0.3	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C74
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C75
Hodgkin disease	1	0.1	0.3	0.2	0.0	0.0	1	0.1	0.2	0.2	0.0	0.0	C81
Non-Hodgkin lymphoma	28	3.7	7.1	6.2	0.4	0.7	21	2.4	5.2	3.8	0.2	0.4	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	3	0.4	0.8	0.7	0.1	0.1	2	0.2	0.5	0.4	0.0	0.1	C90
Lymphoid leukemia	4	0.6	1.1	1.3	0.1	0.1	4	0.5	1.0	1.2	0.1	0.1	C91
Myeloid leukemia	6	0.7	1.4	1.2	0.0	0.2	12	1.4	2.9	2.6	0.1	0.2	C92-94
Leukemia unspecified	10	1.3	2.4	2.3	0.1	0.2	10	1.2	2.6	2.1	0.1	0.3	C95
Other and unspecified	59	7.7	14.9	13.1	0.9	1.3	127	14.7	31.3	23.6	1.8	2.1	O&U
All sites	**765**	**100.0**	**193.2**	**164.7**	**9.2**	**18.4**	**862**	**100.0**	**212.8**	**162.7**	**11.2**	**17.1**	**ALL**

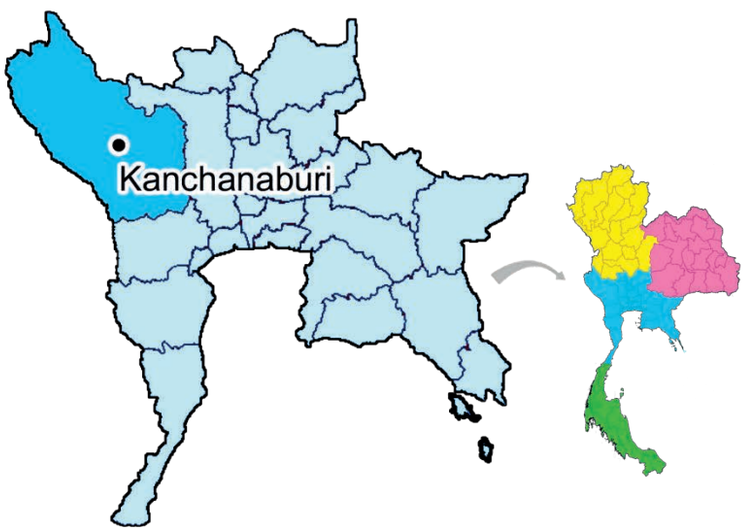
Table 3.7.4 Percentage of morphologically verified and death certificate only cases, Lop Buri, 2008

Site	Male			Female			ICD-10
	Cases 3 Years	%MV	%DCO	Cases 3 Years	%MV	%DCO	
Oral cavity	119	87.4	0.8	105	78.1	1.9	C00-C08
Oropharynx, etc	34	94.1	0.0	8	75.0	12.5	C09-C10,C14
Nasopharynx	27	70.4	3.7	17	76.5	0.0	C11
Hypopharynx	42	66.7	0.0	15	26.7	0.0	C12-C13
Oesophagus	87	77.0	8.0	15	80.0	6.7	C15
Stomach	64	79.7	10.9	38	68.4	10.5	C16
Small intestine	5	80.0	0.0	7	85.7	14.3	C17
Colon and rectum	223	78.0	4.0	185	76.8	3.8	C18-C21
Liver and bile duct	470	23.8	16.8	200	19.5	18.0	C22,C24
Gallbladder	16	25.0	31.3	10	0.0	50.0	C23
Pancreas	23	17.4	30.4	19	10.5	10.5	C25
Nose, sinuses etc	5	100.0	0.0	4	75.0	0.0	C30-C31
Larynx	48	89.6	2.1	6	50.0	0.0	C32
Bronchus, lung	369	61.8	15.2	142	64.8	14.1	C33-C34
Other thoracic organs	3	33.3	0.0	2	50.0	0.0	C37-C38
Bone	22	40.9	9.1	12	58.3	8.3	C40-C41
Melanoma of skin	9	100.0	0.0	8	100.0	0.0	C43
Other skin	45	84.4	0.0	59	91.5	1.7	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	39	35.9	0.0	42	31.0	0.0	C47,C49
Breast	14	78.6	0.0	487	88.1	1.8	C50
Vulva				5	80.0	0.0	C51
Vagina				6	83.3	0.0	C52
Cervix uteri				304	91.8	1.6	C53
Corpus uteri				64	92.2	1.6	C54
Uterus unspecified				7	42.9	42.9	C55
Ovary				131	74.0	2.3	C56
Other female genital				2	0.0	0.0	C57
Placenta				2	50.0	0.0	C58
Penis	20	80.0	0.0				C60
Prostate	122	80.3	6.6				C61
Testis	9	88.9	0.0				C62
Other male genital organs	0	0.0	0.0				C63
Kidney	17	88.2	0.0	8	87.5	0.0	C64
Renal pelvis	1	100.0	0.0	0	0.0	0.0	C65
Ureter	0	0.0	0.0	1	100.0	0.0	C66
Bladder	72	81.9	0.0	20	60.0	0.0	C67
Other urinary organs	0	0.0	0.0	0	0.0	0.0	C68
Eye	2	0.0	50.0	6	50.0	0.0	C69
Brain, nervous system	36	41.7	19.4	39	35.9	23.1	C70-72
Thyroid	16	87.5	6.3	78	85.9	0.0	C73
Adrenal gland	3	33.3	33.3	2	50.0	50.0	C74
Other endocrine	0	0.0	0.0	1	0.0	0.0	C75
Hodgkin's disease	3	100.0	0.0	3	100.0	0.0	C81
Non-Hodgkin lymph	84	98.8	0.0	63	98.4	0.0	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	9	100.0	0.0	6	100.0	0.0	C90
Leukemia	59	100.0	0.0	78	100.0	0.0	C91-C95
Other and unspecified	177	22.0	27.7	380	11.1	7.1	O&U
All sites	**2,294**	**60.0**	**10.5**	**2,587**	**65.2**	**5.4**	**ALL**

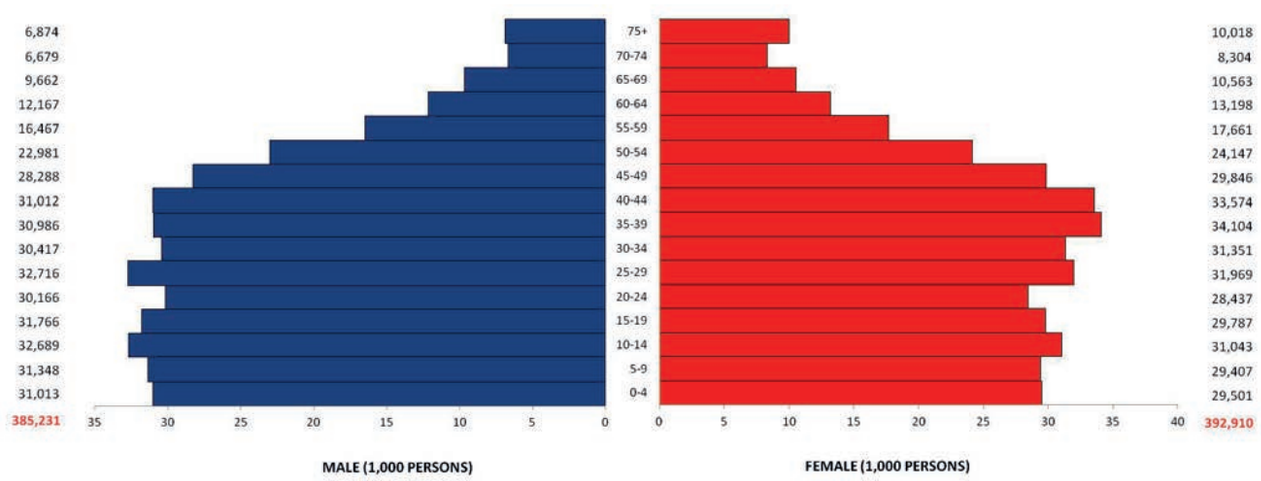
Kanchanaburi Cancer Registry

Registration area

Kanchanaburi is the largest of the western provinces of Thailand. Neighboring provinces are Tak, Uthai Thani, Suphan Buri, Nakhon Nayok and Ratchaburi. In the west it borders Kayin State Mon State and Tanintharyi Region of Myanmar. The province is situated 129 kilometers from Bangkok and covers a total area of approximately 19,483 km² at a latitude 14 : 00 N and longitude 99 : 32 E. Topographically, it is covered with timber and evergreen forests. The estimated population in the year 2008 was 778,141.



Population pyramid, Kanchanaburi, 2008



Cancer care facilities

Kanchanaburi Cancer Registry in under the supervision of the National Cancer Institute. At the primary health care level, there are no facilities for specialized cancer diagnosis and treatment. Cancer surgery services are provided at Kanchanaburi general provincial hospital and private hospitals. The cancer patients are referred for chemotherapy and radiotherapy to Ratchaburi hospitals and other hospitals in Bangkok.

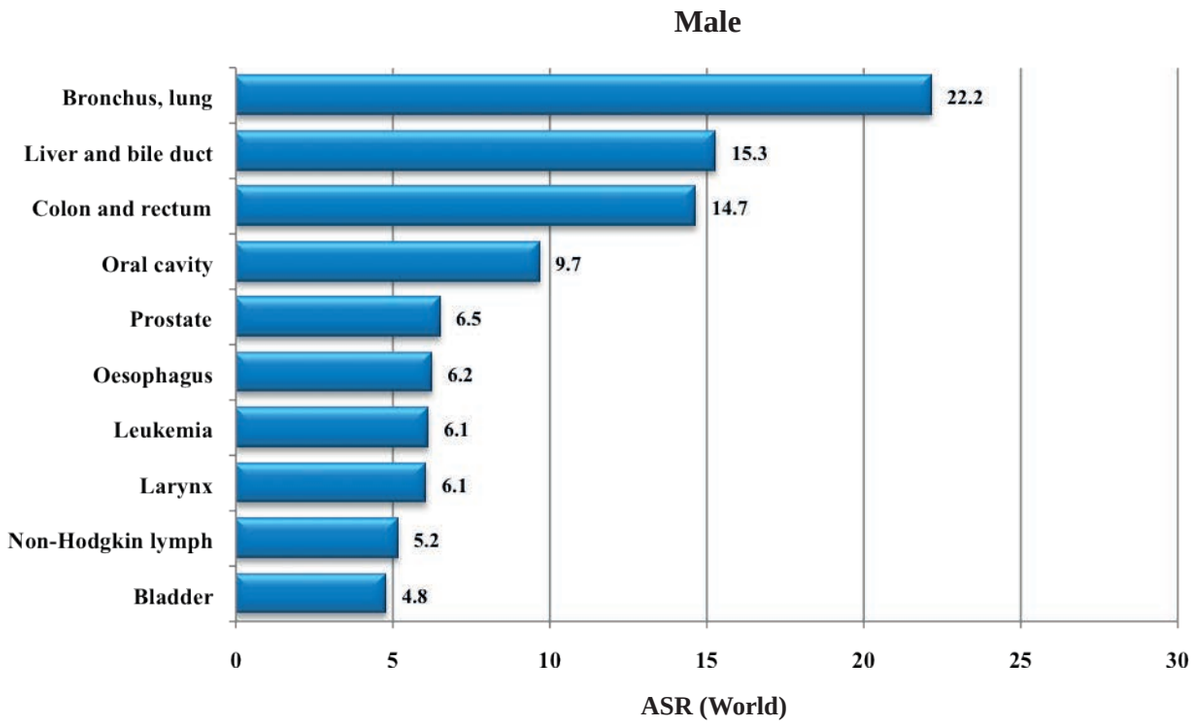
Registry procedures

The population-based cancer registry Kanchanaburi province was set up at the National Cancer Institute, Bangkok in 2000. The information comes from all hospitals in Kanchanaburi province and Bangkok cancer registry. Cancer cases are collected from the medical records departments, outpatient clinics, pathology laboratories, clinical laboratories and death certificates. All data are checked for duplication, verified, coded and keyed into the Thai Cancer Base Programme and IARC/IACR Cancer Registry tools programme.

Summary of results

New cases registered in 2008, 521 were males and 599 were females, making 1,120 for both sexes. The age - standardized incidence rate (ASR) of all sites in males was 138.8 per 100,000, lung cancer ranking first (ASR = 22.2) followed by liver and bile duct (ASR = 15.3) and colon and rectum (ASR = 14.7). The ASR of all cancers in females was 135.1, the three leading sites being breast (ASR = 26.4), cervix (ASR = 26.2) and colon and rectum (ASR = 11.3).

Figure 3.8 Leading cancer in Kanchanaburi, 2008



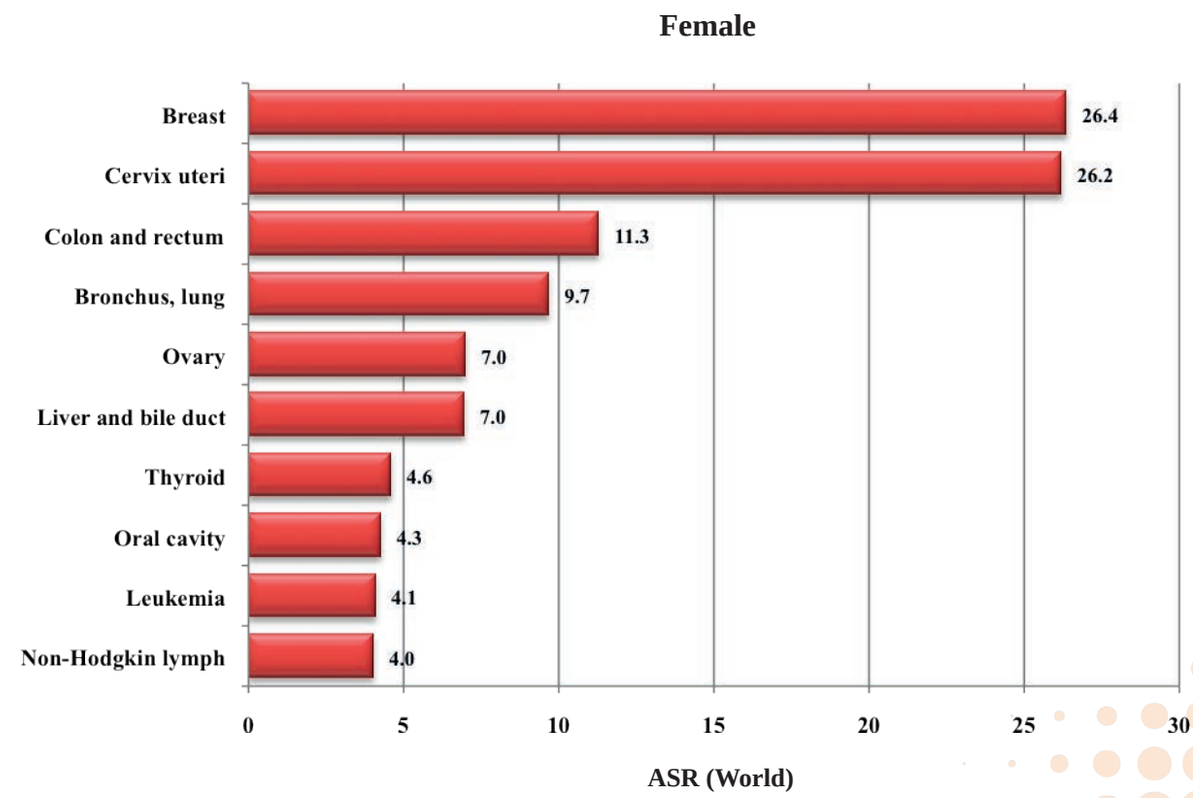


Table 3.8.1 Kanchanaburi (2008), Annual Incidence per 100,000 by Age Group (years) - Male

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	1.1	0.0	0.0	0.0	0.0	3.4	0.0	4.8	0.3	0.3	C00
Tongue	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.3	5.9	13.1	32.4	19.2	20.7	25.0	19.4	4.9	4.9	C01-02
Mouth	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	3.5	8.7	14.2	11.0	20.7	20.0	48.5	3.6	3.8	C03-06
Salivary glands	3	0.0	0.0	0.0	0.0	0.0	1.0	2.2	0.0	0.0	3.5	0.0	0.0	5.5	3.4	0.0	0.0	0.8	0.7	C07-08
Tonsil	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.5	6.1	2.7	3.4	10.0	9.7	1.0	1.0	C09
Other oropharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.9	0.0	0.0	3.4	0.0	0.0	0.3	0.3	C10
Nasopharynx	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.3	9.4	7.3	12.1	5.5	20.7	5.0	19.4	3.3	3.1	C11
Hypopharynx	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	1.1	0.0	4.4	4.0	11.0	13.8	20.0	9.7	1.9	2.0	C12-13
Pharynx unspecified	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.2	0.0	2.0	5.5	0.0	5.0	0.0	0.5	0.5	C14
Esophagus	23	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	2.1	14.1	13.1	14.2	27.4	48.3	29.9	38.8	6.1	6.2	C15
Stomach	14	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.1	1.1	4.7	4.4	18.2	21.9	10.3	39.9	24.2	3.7	3.9	C16
Small intestine	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	2.7	0.0	5.0	0.0	0.4	0.4	C17
Colon	34	0.0	0.0	0.0	0.0	1.1	3.1	1.1	3.2	6.4	14.1	8.7	34.4	35.6	48.3	59.9	63.0	8.7	9.0	C18
Rectum	20	0.0	0.0	0.0	0.0	1.1	1.0	0.0	1.1	4.3	4.7	7.3	20.2	32.9	20.7	34.9	48.5	5.3	5.6	C19-20
Anus	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.2	0.1	C21
Liver and bile duct	59	0.0	0.0	0.0	1.0	1.1	1.0	3.3	6.5	19.3	22.4	36.3	44.5	71.2	62.1	79.9	101.8	15.3	15.3	C22,C24
Gallbladder	2	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	3.4	5.0	9.7	0.4	0.5	C23
Pancreas	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	2.9	2.0	8.2	13.8	20.0	9.7	1.5	1.6	C25
Nose, sinuses etc.	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	4.4	0.0	0.0	3.4	0.0	9.7	0.7	0.6	C30-31
Larynx	22	0.0	0.0	1.0	0.0	2.2	1.0	1.1	3.2	0.0	4.7	10.2	26.3	27.4	41.4	29.9	33.9	5.8	6.1	C32
Trachea, Bronchus, and lung	81	1.1	0.0	0.0	0.0	0.0	1.0	0.0	3.2	9.7	30.6	26.1	89.1	79.4	120.7	179.7	203.7	21.1	22.2	C33-34
Other thoracic organs	1	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	0.0	10.0	0.0	0.3	0.3	C37-38
Bone	5	0.0	0.0	0.0	2.1	0.0	1.0	1.1	1.1	1.1	2.4	1.5	2.0	5.5	3.4	0.0	9.7	1.3	1.3	C40-C41
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	6.9	0.0	4.8	0.4	0.5	C43
Other skin	14	0.0	0.0	1.0	0.0	0.0	0.0	1.1	1.1	2.1	1.2	5.8	10.1	11.0	24.1	29.9	53.3	3.7	3.9	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 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	4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	1.1	1.2	1.5	6.1	0.0	0.0	5.0	4.8	1.1	1.2	C47,C49
Breast	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	0.0	0.0	0.0	4.8	0.2	0.2	C50
Penis	8	0.0	0.0	0.0	0.0	1.1	0.0	0.0	2.2	5.4	5.9	2.9	6.1	2.7	0.0	15.0	9.7	2.1	1.9	C60
Prostate	22	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.4	1.5	8.1	30.1	55.2	64.9	77.6	5.7	6.5	C61
Testis	2	0.0	1.1	1.0	0.0	0.0	0.0	1.1	2.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	4.8	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	5	1.1	1.1	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	4.0	8.2	13.8	5.0	4.8	1.3	1.5	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	5.0	4.8	0.2	0.2	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	2.2	1.1	4.3	8.2	2.9	22.3	5.5	24.1	34.9	58.2	4.8	4.8	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	3.4	0.0	4.8	0.2	0.2	C68
Eye	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	C69
Brain, nervous system	11	1.1	0.0	2.0	2.1	1.1	1.0	3.3	2.2	2.1	2.4	5.8	4.0	2.7	13.8	25.0	4.8	2.9	2.8	C70-72
Thyroid	10	0.0	0.0	0.0	0.0	1.1	0.0	0.0	2.2	4.3	4.7	7.3	6.1	5.5	13.8	5.0	14.5	2.5	2.4	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	4.8	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	2	0.0	0.0	1.0	0.0	1.1	0.0	0.0	1.1	1.1	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.4	0.4	C81
Non-Hodgkin lymphoma	20	2.1	1.1	2.0	1.0	1.1	1.0	4.4	4.3	4.3	9.4	8.7	20.2	16.4	20.7	0.0	24.2	5.3	5.2	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.4	0.0	0.0	0.0	3.4	0.0	9.7	0.5	0.5	C90
Lymphoid leukemia	7	2.1	3.2	1.0	4.2	0.0	1.0	1.1	0.0	0.0	1.2	2.9	4.0	0.0	3.4	5.0	14.5	1.9	2.1	C91
Myeloid leukemia	9	1.1	0.0	3.1	2.1	2.2	2.0	2.2	0.0	0.0	1.2	8.7	4.0	5.5	3.4	15.0	4.8	2.4	2.5	C92-94
Leukemia unspecified	6	3.2	0.0	0.0	2.1	0.0	2.0	1.1	0.0	1.1	3.5	2.9	2.0	2.7	0.0	0.0	9.7	1.6	1.6	C95
Other and unspecified	38	0.0	0.0	0.0	0.0	1.1	2.0	2.2	2.2	4.3	16.5	17.4	36.4	54.8	41.4	74.9	58.2	9.9	10.2	O&U
All sites	**521**	**16.1**	**6.4**	**12.2**	**14.7**	**14.4**	**21.4**	**28.5**	**55.9**	**95.7**	**183.8**	**221.9**	**457.5**	**520.5**	**693.4**	**863.4**	**1042.6**	**135.2**	**138.8**	**ALL**

Table 3.8.2 Kanchanaburi (2008), Annual Incidence per 100,000 by Age Group (years) – 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	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	2.5	3.2	0.0	16.6	0.7	0.6	C00
Tongue	5	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0	2.0	0.0	5.5	1.9	2.5	3.2	8.0	10.0	1.4	1.1	C01-02
Mouth	10	0.0	0.0	0.0	0.0	0.0	0.0	2.1	1.0	0.0	0.0	6.9	3.8	10.1	18.9	12.0	23.3	2.5	2.4	C03-06
Salivary glands	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.2	0.2	C07-08
Tonsil	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0	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	1.1	0.0	0.0	2.5	0.0	0.0	0.0	0.2	0.2	C10
Nasopharynx	4	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0	0.0	2.2	1.4	3.8	7.6	3.2	4.0	3.3	1.1	1.0	C11
Hypopharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	3.8	0.0	0.0	0.0	0.0	0.3	0.2	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	2.5	0.0	0.0	0.0	0.1	0.1	C14
Esophagus	9	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	1.1	6.9	9.4	10.1	9.5	8.0	13.3	2.2	2.0	C15
Stomach	11	0.0	0.0	0.0	0.0	0.0	1.0	1.1	2.0	4.0	0.0	6.9	5.7	10.1	3.2	12.0	29.9	2.8	2.4	C16
Small intestine	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	1.1	0.0	3.8	0.0	0.0	4.0	0.0	0.5	0.4	C17
Colon	29	0.0	0.0	0.0	1.1	0.0	0.0	1.1	2.0	6.9	13.4	15.2	13.2	15.2	34.7	40.1	59.9	7.3	6.4	C18
Rectum	20	0.0	0.0	0.0	1.1	0.0	0.0	1.1	2.0	3.0	8.9	6.9	13.2	20.2	18.9	40.1	29.9	5.1	4.6	C19-20
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	2.5	3.2	0.0	0.0	0.2	0.2	C21
Liver and bile duct	30	0.0	0.0	0.0	0.0	1.2	1.0	3.2	1.0	6.0	2.2	9.7	26.4	27.8	31.6	52.2	69.9	7.6	7.0	C22,C24
Gallbladder	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	2.5	3.2	4.0	16.6	0.8	0.8	C23
Pancreas	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.9	5.1	12.6	8.0	20.0	1.4	1.3	C25
Nose, sinuses etc.	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.4	0.0	2.5	3.2	0.0	3.3	0.4	0.4	C30-31
Larynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.1	0.0	0.0	0.0	3.2	0.0	0.0	0.3	0.2	C32
Trachea, Bronchus, and lung	42	0.0	0.0	0.0	0.0	0.0	2.1	2.1	4.9	6.9	11.2	20.7	39.6	50.5	28.4	72.3	53.2	10.6	9.7	C33-34
Other thoracic organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.2	0.2	C37-38
Bone	3	0.0	1.1	1.1	1.1	0.0	0.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.7	0.6	C40-C41
Melanoma of skin	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.4	1.9	0.0	0.0	4.0	0.0	0.3	0.3	C43
Other skin	14	1.1	0.0	0.0	0.0	0.0	1.0	1.1	1.0	1.0	0.0	0.0	3.8	10.1	12.6	44.2	53.2	3.6	3.3	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 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	6	1.1	1.1	1.1	1.1	1.2	1.0	0.0	1.0	1.0	0.0	2.8	3.8	5.1	6.3	0.0	6.7	1.5	1.6	C47,C49
Breast	122	0.0	0.0	0.0	0.0	2.3	1.0	14.9	39.1	46.7	80.4	89.7	81.2	101.0	47.3	52.2	49.9	31.1	26.4	C50
Vulva	2	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.4	0.0	2.5	3.2	0.0	6.7	0.5	0.5	C51
Vagina	1	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	0.0	4.0	0.0	0.2	0.1	C52
Cervix uteri	122	0.0	0.0	0.0	0.0	1.2	4.2	14.9	21.5	42.7	74.8	84.2	94.4	55.6	82.0	64.2	129.8	31.0	26.2	C53
Corpus uteri	14	0.0	0.0	0.0	0.0	0.0	1.0	1.1	3.9	2.0	5.6	9.7	7.5	12.6	22.1	8.0	10.0	3.5	3.1	C54
Uterus unspecified	3	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.0	0.0	0.0	3.8	2.5	6.3	0.0	6.7	0.8	0.7	C55
Ovary	31	2.3	0.0	1.1	0.0	0.0	1.0	5.3	2.9	10.9	17.9	22.1	13.2	27.8	28.4	16.1	20.0	7.8	7.0	C56
Other female genital	0	0.0	0.0	0.0	0.0	0.0	0.0	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
Kidney	3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	9.5	4.0	0.0	0.7	0.8	C64
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
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	2.5	0.0	0.0	0.0	0.1	0.1	C66
Bladder	3	0.0	0.0	0.0	0.0	0.0	1.0	1.1	0.0	1.0	0.0	0.0	1.9	7.6	6.3	0.0	3.3	0.8	0.8	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	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	3.2	0.0	0.0	0.4	0.5	C69
Brain, nervous system	7	0.0	1.1	3.2	0.0	0.0	0.0	2.1	1.0	6.0	1.1	1.4	1.9	0.0	6.3	8.0	6.7	1.9	1.6	C70-72
Thyroid	21	0.0	0.0	0.0	2.2	7.0	2.1	7.4	4.9	8.9	13.4	8.3	5.7	0.0	18.9	12.0	6.7	5.3	4.6	C73
Adrenal gland	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	2.5	0.0	0.0	0.0	0.2	0.2	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	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C81
Non-Hodgkin lymphoma	17	1.1	0.0	1.1	0.0	1.2	3.1	0.0	3.9	4.0	1.1	12.4	15.1	22.7	9.5	8.0	16.6	4.3	4.0	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.1	1.4	0.0	10.1	3.2	8.0	0.0	0.8	0.9	C90
Lymphoid leukemia	4	2.3	3.4	2.1	1.1	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.9	1.1	C91
Myeloid leukemia	5	0.0	0.0	0.0	2.2	2.3	2.1	4.3	0.0	0.0	1.1	2.8	1.9	0.0	0.0	0.0	3.3	1.3	1.2	C92-94
Leukemia unspecified	8	1.1	0.0	1.1	0.0	1.2	1.0	3.2	1.0	1.0	2.2	2.8	1.9	7.6	6.3	4.0	10.0	2.0	1.8	C95
Other and unspecified	27	0.0	0.0	0.0	0.0	0.0	3.1	3.2	3.9	10.9	6.7	13.8	17.0	25.3	18.9	36.1	33.3	6.9	6.1	O&U
All sites	**599**	**12.4**	**7.9**	**10.7**	**10.1**	**17.6**	**27.1**	**73.4**	**101.6**	**177.7**	**250.2**	**341.0**	**388.8**	**482.4**	**470.2**	**549.9**	**712.1**	**152.5**	**135.1**	**ALL**

Table 3.8.3 Annual incidence, Kanchanaburi, 2008

Site	Male						Female						ICD-10
	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	
Lip	1	0.2	0.3	0.3	0.0	0.0	3	0.4	0.7	0.6	0.0	0.0	C00
Tongue	19	3.6	4.9	4.9	0.4	0.6	5	0.9	1.4	1.1	0.1	0.1	C01-02
Mouth	14	2.7	3.6	3.8	0.2	0.4	10	1.7	2.5	2.4	0.1	0.3	C03-06
Salivary glands	3	0.6	0.8	0.7	0.1	0.1	1	0.1	0.2	0.2	0.0	0.0	C07-08
Tonsil	4	0.7	1.0	1.0	0.1	0.1	1	0.2	0.3	0.2	0.0	0.0	C09
Other oropharynx	1	0.3	0.3	0.3	0.0	0.0	1	0.1	0.2	0.2	0.0	0.0	C10
Nasopharynx	13	2.4	3.3	3.1	0.2	0.3	4	0.7	1.1	1.0	0.1	0.1	C11
Hypopharynx	7	1.4	1.9	2.0	0.1	0.3	1	0.2	0.3	0.2	0.0	0.0	C12-13
Pharynx unspecified	2	0.4	0.5	0.5	0.0	0.1	0	0.1	0.1	0.1	0.0	0.0	C14
Esophagus	23	4.5	6.1	6.2	0.4	0.8	9	1.4	2.2	2.0	0.1	0.2	C15
Stomach	14	2.8	3.7	3.9	0.3	0.5	11	1.8	2.8	2.4	0.2	0.2	C16
Small intestine	2	0.3	0.4	0.4	0.0	0.1	2	0.3	0.5	0.4	0.0	0.1	C17
Colon	34	6.5	8.7	9.0	0.5	1.1	29	4.8	7.3	6.4	0.3	0.7	C18
Rectum	20	3.9	5.3	5.6	0.4	0.6	20	3.3	5.1	4.6	0.3	0.6	C19-20
Anus	1	0.1	0.2	0.1	0.0	0.0	1	0.1	0.2	0.2	0.0	0.0	C21
Liver and bile duct	59	11.3	15.3	15.3	1.0	1.7	30	5.0	7.6	7.0	0.4	0.8	C22,C24
Gallbladder	2	0.3	0.4	0.5	0.0	0.0	3	0.6	0.8	0.8	0.0	0.1	C23
Pancreas	6	1.1	1.5	1.6	0.1	0.2	5	0.9	1.4	1.3	0.0	0.1	C25
Nose, sinuses etc.	3	0.5	0.7	0.6	0.0	0.0	2	0.3	0.4	0.4	0.0	0.0	C30-31
Larynx	22	4.3	5.8	6.1	0.4	0.7	1	0.2	0.3	0.2	0.0	0.0	C32
Trachea, Bronchus, and lung	81	15.6	21.1	22.2	1.2	2.7	42	7.0	10.6	9.7	0.7	1.2	C33-34
Other thoracic organs	1	0.2	0.3	0.3	0.0	0.1	1	0.1	0.2	0.2	0.0	0.0	C37-38
Bone	5	1.0	1.3	1.3	0.1	0.1	3	0.4	0.7	0.6	0.0	0.1	C40-C41
Melanoma of skin	2	0.3	0.4	0.5	0.0	0.1	1	0.2	0.3	0.3	0.0	0.0	C43
Other skin	14	2.8	3.7	3.9	0.2	0.4	14	2.3	3.6	3.3	0.1	0.4	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi sarcoma	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	4	0.8	1.1	1.2	0.1	0.1	6	1.0	1.5	1.6	0.1	0.1	C47,C49
Breast	1	0.1	0.2	0.2	0.0	0.0	122	20.4	31.1	26.4	2.3	2.8	C50
Vulva							2	0.3	0.5	0.5	0.0	0.0	C51
Vagina							1	0.1	0.2	0.1	0.0	0.0	C52
Cervix uteri							122	20.3	31.0	26.2	2.0	2.7	C53
Corpus uteri							14	2.3	3.5	3.1	0.2	0.4	C54
Uterus unspecified							3	0.5	0.8	0.7	0.0	0.1	C55
Ovary							31	5.1	7.8	7.0	0.5	0.7	C56
Other female genital							0	0.0	0.0	0.0	0.0	0.0	C57
Placenta							0	0.0	0.0	0.0	0.0	0.0	C58
Penis	8	1.5	2.1	1.9	0.1	0.2							C60
Prostate	22	4.2	5.7	6.5	0.2	0.8							C61
Testis	2	0.4	0.6	0.6	0.0	0.0							C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0							C63
Kidney	5	1.0	1.3	1.5	0.1	0.2	3	0.4	0.7	0.8	0.0	0.1	C64
Renal pelvis	1	0.1	0.2	0.2	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C65
Ureter	0	0.0	0.0	0.0	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C66
Bladder	18	3.5	4.8	4.8	0.2	0.5	3	0.6	0.8	0.8	0.1	0.1	C67
Other urinary organs	1	0.1	0.2	0.2	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C68
Eye	0	0.1	0.1	0.1	0.0	0.0	2	0.3	0.4	0.5	0.0	0.0	C69
Brain, nervous system	11	2.1	2.9	2.8	0.1	0.3	7	1.2	1.9	1.6	0.1	0.2	C70-72
Thyroid	10	1.9	2.5	2.4	0.2	0.2	21	3.5	5.3	4.6	0.3	0.5	C73
Adrenal gland	0	0.1	0.1	0.1	0.0	0.0	1	0.1	0.2	0.2	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	C75
Hodgkin disease	2	0.3	0.4	0.4	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C81
Non-Hodgkin lymphoma	20	3.9	5.3	5.2	0.4	0.5	17	2.8	4.3	4.0	0.3	0.4	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	2	0.4	0.5	0.5	0.0	0.0	3	0.6	0.8	0.9	0.1	0.1	C90
Lymphoid leukemia	7	1.4	1.9	2.1	0.1	0.1	4	0.6	0.9	1.1	0.1	0.1	C91
Myeloid leukemia	9	1.8	2.4	2.5	0.2	0.3	5	0.8	1.3	1.2	0.1	0.1	C92-94
Leukemia unspecified	6	1.2	1.6	1.6	0.1	0.1	8	1.3	2.0	1.8	0.1	0.2	C95
Other and unspecified	38	7.3	9.9	10.2	0.7	1.3	27	4.5	6.9	6.1	0.4	0.7	O&U
All sites	**521**	**100.0**	**135.2**	**138.8**	**8.2**	**16.0**	**599**	**100.0**	**152.5**	**135.1**	**9.5**	**14.6**	**ALL**

Table 3.8.4 Percentage of morphologically verified and death certificate only cases, Kanchanaburi, 2008

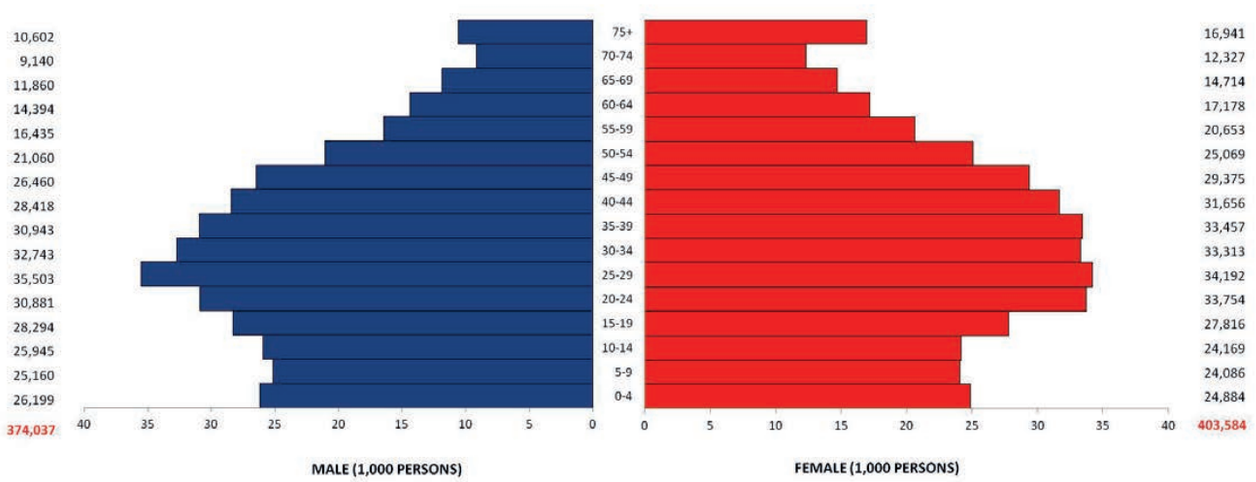
	Male			Female			ICD-10
	Cases 3 Years	%MV	%DCO	Cases 3 Years	%MV	%DCO	
Oral cavity	111	70.3	2.7	56	66.1	3.6	C00-C08
Oropharynx, etc	21	52.4	19.0	6	83.3	0.0	C09-C10,C14
Nasopharynx	38	81.6	0.0	13	69.2	0.0	C11
Hypopharynx	22	95.5	0.0	3	66.7	0.0	C12-C13
Oesophagus	70	65.7	1.4	26	53.8	0.0	C15
Stomach	43	69.8	2.3	33	72.7	3.0	C16
Small intestine	5	80.0	20.0	6	66.7	0.0	C17
Colon and rectum	164	70.1	6.1	148	77.0	2.7	C18-C21
Liver and bile duct	177	24.9	15.8	90	25.6	12.2	C22,C24
Gallbladder	5	60.0	0.0	10	50.0	0.0	C23
Pancreas	17	11.8	0.0	16	50.0	6.3	C25
Nose, sinuses etc	8	62.5	0.0	5	80.0	0.0	C30-C31
Larynx	67	67.2	3.0	3	66.7	0.0	C32
Bronchus, lung	244	43.0	9.4	125	45.6	6.4	C33-C34
Other thoracic organs	3	100.0	0.0	2	0.0	0.0	C37-C38
Bone	15	53.3	20.0	8	62.5	12.5	C40-C41
Melanoma of skin	5	100.0	0.0	4	100.0	0.0	C43
Other skin	43	83.7	7.0	42	92.9	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	13	76.9	7.7	18	94.4	0.0	C47,C49
Breast	2	100.0	0.0	367	82.6	2.7	C50
Vulva				6	100.0	0.0	C51
Vagina				2	100.0	0.0	C52
Cervix uteri				365	76.7	3.3	C53
Corpus uteri				41	97.6	0.0	C54
Uterus unspecified				9	11.1	33.3	C55
Ovary				92	60.9	0.0	C56
Other female genital				0	0.0	0.0	C57
Placenta				0	0.0	0.0	C58
Penis	24	83.3	0.0				C60
Prostate	66	63.6	0.0				C61
Testis	7	85.7	0.0				C62
Other male genital organs	0	0.0	0.0				C63
Kidney	15	73.3	6.7	8	62.5	12.5	C64
Renal pelvis	2	100.0	0.0	0	0.0	0.0	C65
Ureter	0	0.0	0.0	1	100.0	0.0	C66
Bladder	55	76.4	1.8	10	60.0	10.0	C67
Other urinary organs	2	0.0	50.0	0	0.0	0.0	C68
Eye	1	100.0	0.0	5	100.0	0.0	C69
Brain, nervous system	33	27.3	24.2	22	45.5	31.8	C70-72
Thyroid	29	69.0	6.9	63	73.0	6.3	C73
Adrenal gland	1	0.0	0.0	2	50.0	50.0	C74
Other endocrine	0	0.0	0.0	0	0.0	0.0	C75
Hodgkin's disease	5	100.0	0.0	0	0.0	0.0	C81
Non-Hodgkin lymph	61	100.0	0.0	51	100.0	0.0	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	6	100.0	0.0	10	100.0	0.0	C90
Leukemia	68	94.1	5.9	49	93.9	6.1	C91-C95
Other and unspecified	114	41.2	20.2	81	27.2	21.0	O&U
All site	**1,562**	**60.2**	**7.7**	**1,798**	**70.3**	**4.8**	**ALL**

Phra Nakhon Si Ayutthaya Cancer Registry

Registration area

Phra Nakhon Si Ayutthaya is located in the middle of Thailand, approximately 260 kilometers from Bangkok. The province covers a total area of approximately 2,556 km² at a latitude 14 : 22 N and longitude 100 : 34 E and is located in the flat river plain of the Chao Phraya river valley. The presence of the Lop Buri and Pa Sak rivers makes the province a major rice farming area.

Population pyramid, Phra Nakhon Si Ayutthaya, 2008



Cancer care facilities

Phra Nakhon Si Ayutthaya Cancer Registry in under the supervision of the National Cancer Institute. At the primary health care level, there are no facilities for specialized cancer diagnosis and treatment. Phra Nakhon Si Ayutthaya provincial hospital is a general hospital, there are no facilities for chemotherapy and radiotherapy. Cancer surgery services are provided at Phra Nakhon Si Ayutthaya provincial hospital and private hospitals. The cancer patients are referred for chemotherapy and radiotherapy to Lop Buri cancer center and hospitals in Bangkok.

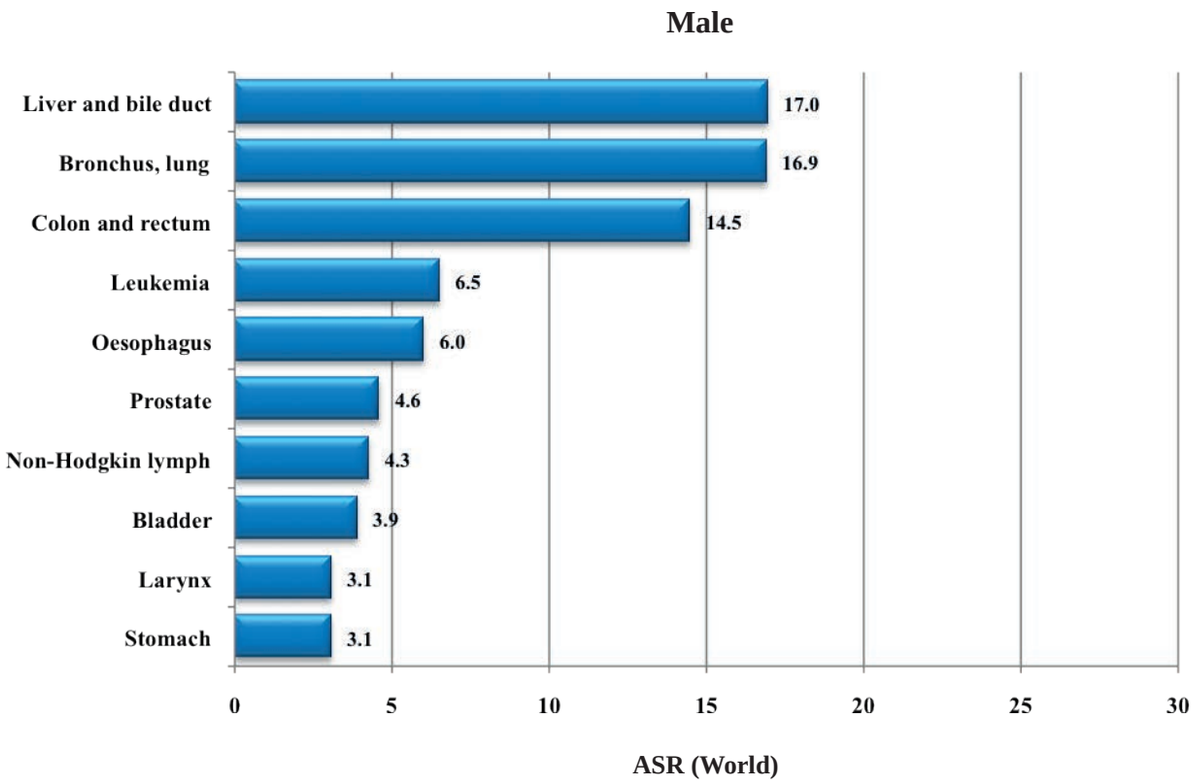
Registry procedures

The population-based cancer registry Phra Nakhon Si Ayutthaya province was set up at the National Cancer Institute, Bangkok in 2000. The information comes from all hospitals in Phra Nakhon Si Ayutthaya province and Bangkok cancer registry. Cancer cases are collected from the medical records departments, outpatient clinics, pathology laboratories, clinical laboratories and death certificates. All data are checked for duplication, verified, coded and keyed into the Thai Cancer Base Programme and IARC/IACR Cancer Registry tools programme.

Summary of results

New cases registered in 2008, 479 were males and 568 were females, making 1,047 for both sexes. The age - standardized incidence rate (ASR) of all sites in males was 110.8 per 100,000, liver and bile duct cancer ranking first (ASR = 17.0), followed by lung (ASR = 16.9) and colon and rectum (ASR = 14.5). The ASR of all cancers in females was 108.5, the three leading sites being breast (ASR = 29.4), cervix (ASR = 16.6) and colon and rectum (ASR = 9.6).

Figure 3.9 Leading cancer in Phra Nakhon Si Ayutthaya, 2008



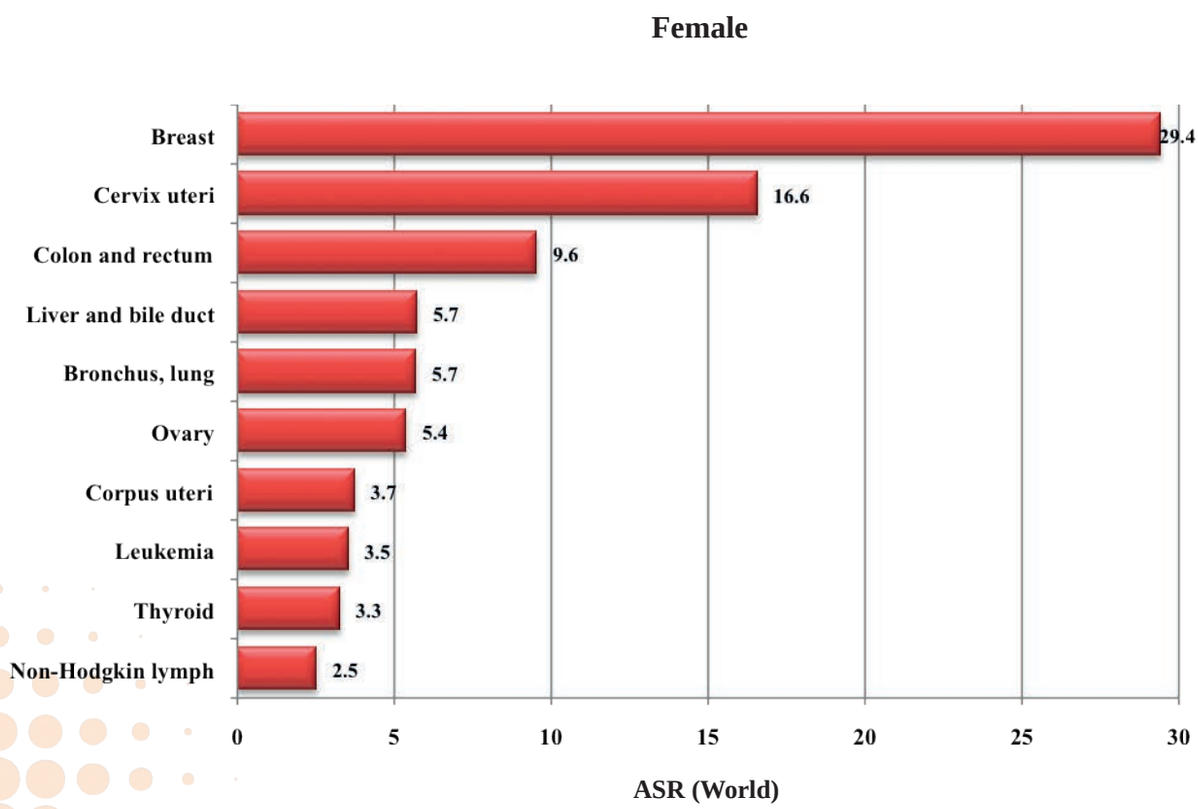


Table 3.9.1 Phra Nakhon Si Ayutthaya (2008), Annual Incidence per 100,000 by Age Group (years) - Male

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	6.3	0.2	0.1	C00
Tongue	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	2.5	4.7	6.1	4.6	2.8	10.9	6.3	1.5	1.3	C01-02
Mouth	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.3	3.2	4.1	0.0	5.6	14.6	0.0	1.1	0.9	C03-06
Salivary glands	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	C07-08
Tonsil	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	3.2	0.0	0.0	0.0	10.9	0.0	0.5	0.4	C09
Other oropharynx	2	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	5.6	0.0	3.1	0.4	0.4	C10
Nasopharynx	11	0.0	0.0	0.0	0.0	0.0	0.0	4.1	3.2	3.5	6.3	7.9	2.0	9.3	14.1	7.3	3.1	2.9	2.5	C11
Hypopharynx	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.8	12.7	4.1	9.3	5.6	10.9	9.4	2.5	2.2	C12-13
Pharynx unspecified	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	2.0	2.3	2.8	0.0	3.1	0.4	0.4	C14
Esophagus	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.2	6.3	20.6	24.3	34.7	50.6	7.3	22.0	6.6	6.0	C15
Stomach	14	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.2	2.3	6.3	4.7	6.1	9.3	16.9	21.9	28.3	3.7	3.1	C16
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	2.0	0.0	0.0	0.0	0.0	0.1	0.1	C17
Colon	37	0.0	0.0	0.0	0.0	0.0	1.9	2.0	3.2	5.9	18.9	30.1	18.3	23.2	30.9	47.4	69.2	9.9	8.4	C18
Rectum	26	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.2	4.7	11.3	7.9	24.3	18.5	14.1	51.1	47.2	6.9	5.8	C19-20
Anus	1	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.3	1.6	2.0	0.0	0.0	0.0	0.0	0.4	0.3	C21
Liver and bile duct	73	0.0	0.0	0.0	0.0	1.1	1.9	3.1	11.8	18.8	23.9	69.6	71.0	53.3	73.1	58.4	72.3	19.5	17.0	C22,C24
Gallbladder	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	7.3	0.0	0.2	0.1	C23
Pancreas	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3	1.3	3.2	0.0	2.3	16.9	7.3	9.4	1.6	1.4	C25
Nose, sinuses etc.	3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.1	0.0	1.3	3.2	0.0	4.6	0.0	3.6	3.1	0.8	0.7	C30-31
Larynx	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3	8.8	11.1	6.1	2.3	25.3	21.9	12.6	3.6	3.1	C32
Trachea, Bronchus, and lung	74	0.0	1.3	0.0	0.0	0.0	0.9	1.0	5.4	14.1	25.2	22.2	62.9	37.1	92.7	171.4	132.1	19.9	16.9	C33-34
Other thoracic organs	1	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C37-38
Bone	2	0.0	0.0	0.0	1.2	1.1	0.0	0.0	0.0	0.0	1.3	0.0	0.0	2.3	2.8	0.0	0.0	0.4	0.4	C40-C41
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.1	2.3	5.6	3.6	0.0	0.6	0.6	C43
Other skin	11	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.1	2.3	5.0	6.3	4.1	9.3	5.6	3.6	31.4	2.9	2.3	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 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	2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.1	0.0	0.0	0.0	0.0	0.0	2.8	7.3	0.0	0.4	0.4	C47,C49
Breast	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	2.3	0.0	0.0	0.0	0.2	0.2	C50
Penis	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.3	1.6	4.1	0.0	2.8	7.3	12.6	1.1	0.9	C60
Prostate	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.7	6.1	9.3	25.3	29.2	116.3	5.8	4.6	C61
Testis	2	0.0	0.0	0.0	0.0	1.1	0.9	1.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.4	0.4	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	4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.1	2.3	2.8	10.9	12.6	1.2	1.0	C64
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
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	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3	2.5	4.7	8.1	18.5	14.1	40.1	50.3	4.6	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	3.1	0.1	0.1	C68
Eye	2	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	2.8	0.0	0.0	0.4	0.6	C69
Brain, nervous system	8	1.3	1.3	2.6	1.2	1.1	0.9	0.0	2.2	2.3	0.0	4.7	4.1	2.3	8.4	18.2	0.0	2.2	2.2	C70-72
Thyroid	6	0.0	0.0	0.0	0.0	1.1	0.9	0.0	2.2	1.2	3.8	1.6	4.1	4.6	11.2	7.3	0.0	1.7	1.5	C73
Adrenal gland	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	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	2	0.0	0.0	1.3	0.0	0.0	0.9	1.0	0.0	1.2	1.3	1.6	0.0	0.0	0.0	0.0	0.0	0.5	0.5	C81
Non-Hodgkin lymphoma	19	0.0	0.0	0.0	1.2	0.0	0.9	3.1	4.3	3.5	6.3	6.3	14.2	16.2	22.5	10.9	31.4	5.0	4.3	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.2	5.0	0.0	0.0	0.0	2.8	3.6	0.0	0.7	0.6	C90
Lymphoid leukemia	3	1.3	1.3	2.6	1.2	0.0	0.0	1.0	0.0	1.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	C91
Myeloid leukemia	6	1.3	0.0	0.0	2.4	0.0	0.0	0.0	2.2	2.3	0.0	3.2	0.0	6.9	5.6	7.3	6.3	1.6	1.5	C92-94
Leukemia unspecified	17	1.3	2.6	5.1	1.2	2.2	1.9	0.0	2.2	2.3	5.0	6.3	6.1	6.9	19.7	14.6	28.3	4.5	4.2	C95
Other and unspecified	37	0.0	0.0	0.0	1.2	0.0	0.9	3.1	2.2	10.6	13.9	23.7	12.2	27.8	45.0	65.6	53.4	9.9	8.5	O&U
All sites	**479**	**10.2**	**6.6**	**11.6**	**9.4**	**9.7**	**12.2**	**26.5**	**58.2**	**92.7**	**173.8**	**273.8**	**308.3**	**321.9**	**536.8**	**685.6**	**773.4**	**128.2**	**110.8**	**ALL**

Table 3.9.2 Phra Nakhon Si Ayutthaya (2008), Annual Incidence per 100,000 by Age Group (years) – 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	1	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	5.4	2.0	0.3	0.2	C00
Tongue	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.6	0.0	0.0	0.0	2.0	0.2	0.2	C01-02
Mouth	3	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	2.3	2.7	11.8	0.7	0.4	C03-06
Salivary glands	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	0.0	0.0	0.0	2.0	0.2	0.1	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	0.0	1.9	2.3	0.0	0.0	0.2	0.1	C09
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	0.0	0.0	0.0	0.0	2.0	0.2	0.1	C10
Nasopharynx	3	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.3	1.3	3.2	3.9	0.0	2.7	0.0	0.8	0.7	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	1.6	0.0	2.3	2.7	0.0	0.2	0.2	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
Esophagus	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.9	6.8	2.7	5.9	0.9	0.7	C15
Stomach	12	0.0	0.0	0.0	0.0	2.0	1.0	0.0	1.0	3.2	4.5	4.0	12.9	3.9	11.3	16.2	3.9	3.1	2.4	C16
Small intestine	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.6	3.9	0.0	0.0	0.0	0.3	0.3	C17
Colon	30	0.0	0.0	0.0	1.2	0.0	1.0	1.0	1.0	8.4	7.9	14.6	16.1	17.5	29.5	27.0	33.4	7.4	5.5	C18
Rectum	20	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	1.1	4.5	9.3	9.7	21.3	22.7	29.7	17.7	5.0	3.8	C19-20
Anus	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.3	0.3	C21
Liver and bile duct	31	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0	3.2	5.7	14.6	22.6	29.1	29.5	29.7	37.4	7.8	5.7	C22,C24
Gallbladder	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.6	0.0	2.3	5.4	13.8	1.0	0.6	C23
Pancreas	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.7	3.2	3.9	6.8	10.8	9.8	1.6	1.1	C25
Nose, sinuses etc.	1	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.1	1.1	1.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3	C30-31
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
Trachea, Bronchus, and lung	31	0.0	0.0	0.0	0.0	1.0	0.0	1.0	6.0	5.3	5.7	16.0	21.0	23.3	29.5	27.0	27.5	7.6	5.7	C33-34
Other thoracic organs	1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.6	1.9	0.0	0.0	0.0	0.2	0.2	C37-38
Bone	4	0.0	0.0	0.0	1.2	0.0	1.0	1.0	2.0	2.1	2.3	0.0	1.6	0.0	2.3	0.0	3.9	1.1	0.8	C40-C41
Melanoma of skin	2	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	0.0	0.0	7.9	0.5	0.3	C43
Other skin	14	0.0	1.4	0.0	0.0	0.0	0.0	0.0	2.0	1.1	3.4	1.3	3.2	1.9	22.7	24.3	21.6	3.4	2.4	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 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	4	0.0	0.0	1.4	1.2	0.0	0.0	0.0	2.0	0.0	3.4	0.0	0.0	1.9	6.8	0.0	2.0	1.0	0.9	C47,C49
Breast	151	0.0	0.0	0.0	1.2	4.0	5.8	14.0	35.9	67.4	106.7	109.0	90.4	62.1	54.4	54.1	41.3	37.5	29.4	C50
Vulva	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	4.5	0.0	5.9	0.4	0.3	C51
Vagina	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.6	1.9	0.0	5.4	0.0	0.4	0.3	C52
Cervix uteri	87	0.0	0.0	0.0	0.0	1.0	1.0	12.0	18.9	32.6	51.1	55.8	50.0	46.6	43.0	40.6	39.4	21.5	16.6	C53
Corpus uteri	19	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	3.2	13.6	13.3	16.1	15.5	6.8	5.4	9.8	4.8	3.7	C54
Uterus unspecified	3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.1	4.0	1.6	1.9	2.3	0.0	0.0	0.7	0.5	C55
Ovary	28	0.0	0.0	1.4	0.0	1.0	0.0	3.0	2.0	8.4	17.0	18.6	22.6	15.5	9.1	21.6	9.8	6.9	5.4	C56
Other female genital	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C57
Placenta	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	C58
Kidney	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.3	1.6	1.9	2.3	0.0	3.9	0.6	0.4	C64
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
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	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	1.1	0.0	1.6	0.0	4.5	10.8	7.9	1.2	0.8	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	1.3	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	0.2	0.2	C69
Brain, nervous system	5	0.0	1.4	4.1	0.0	1.0	1.0	1.0	2.0	1.1	0.0	1.3	1.6	1.9	0.0	2.7	3.9	1.3	1.3	C70-72
Thyroid	17	0.0	0.0	0.0	1.2	2.0	3.9	7.0	5.0	9.5	3.4	9.3	9.7	0.0	2.3	8.1	5.9	4.2	3.3	C73
Adrenal gland	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	0.0	0.0	0.0	0.1	0.2	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	1	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	C81
Non-Hodgkin lymphoma	13	0.0	1.4	1.4	0.0	1.0	1.0	3.0	2.0	2.1	2.3	1.3	4.8	5.8	11.3	21.6	13.8	3.3	2.5	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1	0.0	2.7	3.2	3.9	0.0	2.7	2.0	0.9	0.7	C90
Lymphoid leukemia	2	2.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.6	0.0	0.0	0.0	2.0	0.6	0.8	C91
Myeloid leukemia	5	0.0	0.0	1.4	0.0	0.0	0.0	2.0	0.0	1.1	3.4	0.0	1.6	3.9	0.0	5.4	3.9	1.2	0.9	C92-94
Leukemia unspecified	9	2.7	1.4	0.0	0.0	1.0	0.0	5.0	0.0	2.1	0.0	1.3	4.8	3.9	4.5	5.4	11.8	2.2	1.9	C95
Other and unspecified	33	0.0	0.0	0.0	0.0	1.0	0.0	7.0	5.0	5.3	10.2	17.3	12.9	29.1	20.4	29.7	31.5	8.2	6.1	O&U
All sites	**568**	**8.0**	**8.3**	**9.7**	**6.0**	**17.8**	**17.5**	**65.0**	**93.7**	**168.5**	**258.7**	**305.8**	**330.9**	**314.4**	**342.1**	**400.2**	**397.5**	**140.8**	**108.5**	**ALL**

Table 3.9.3 Annual incidence, Phra Nakhon Si Ayutthaya, 2008

Site	Male						Female						ICD-10
	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	
Lip	1	0.1	0.2	0.1	0.0	0.0	1	0.2	0.3	0.2	0.0	0.0	C00
Tongue	6	1.2	1.5	1.3	0.1	0.2	1	0.2	0.2	0.2	0.0	0.0	C01-02
Mouth	4	0.8	1.1	0.9	0.0	0.1	3	0.5	0.7	0.4	0.0	0.0	C03-06
Salivary glands	1	0.2	0.3	0.2	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C07-08
Tonsil	2	0.4	0.5	0.4	0.0	0.1	1	0.1	0.2	0.1	0.0	0.0	C09
Other oropharynx	2	0.3	0.4	0.4	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C10
Nasopharynx	11	2.3	2.9	2.5	0.2	0.3	3	0.6	0.8	0.7	0.1	0.1	C11
Hypopharynx	9	1.9	2.5	2.2	0.2	0.2	1	0.2	0.2	0.2	0.0	0.0	C12-13
Pharynx unspecified	2	0.3	0.4	0.4	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C14
Esophagus	25	5.1	6.6	6.0	0.4	0.7	4	0.6	0.9	0.7	0.0	0.1	C15
Stomach	14	2.9	3.7	3.1	0.2	0.4	12	2.2	3.1	2.4	0.2	0.3	C16
Small intestine	0	0.1	0.1	0.1	0.0	0.0	1	0.2	0.3	0.3	0.0	0.0	C17
Colon	37	7.7	9.9	8.4	0.5	0.9	30	5.2	7.4	5.5	0.3	0.6	C18
Rectum	26	5.4	6.9	5.8	0.4	0.7	20	3.6	5.0	3.8	0.2	0.5	C19-20
Anus	1	0.3	0.4	0.3	0.0	0.0	1	0.2	0.3	0.3	0.0	0.0	C21
Liver and bile duct	73	15.2	19.5	17.0	1.3	1.9	31	5.5	7.8	5.7	0.4	0.7	C22,C24
Gallbladder	1	0.1	0.2	0.1	0.0	0.0	4	0.7	1.0	0.6	0.0	0.1	C23
Pancreas	6	1.3	1.6	1.4	0.1	0.2	6	1.1	1.6	1.1	0.1	0.1	C25
Nose, sinuses etc.	3	0.6	0.8	0.7	0.1	0.1	1	0.2	0.3	0.3	0.0	0.0	C30-31
Larynx	13	2.8	3.6	3.1	0.2	0.4	0	0.0	0.0	0.0	0.0	0.0	C32
Trachea, Bronchus, and lung	74	15.5	19.9	16.9	0.9	2.2	31	5.4	7.6	5.7	0.4	0.7	C33-34
Other thoracic organs	1	0.1	0.2	0.2	0.0	0.0	1	0.2	0.2	0.2	0.0	0.0	C37-38
Bone	2	0.3	0.4	0.4	0.0	0.0	4	0.8	1.1	0.8	0.1	0.1	C40-C41
Melanoma of skin	2	0.5	0.6	0.6	0.0	0.1	2	0.4	0.5	0.3	0.0	0.0	C43
Other skin	11	2.2	2.9	2.3	0.2	0.2	14	2.4	3.4	2.4	0.1	0.3	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi sarcoma	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	2	0.3	0.4	0.4	0.0	0.1	4	0.7	1.0	0.9	0.0	0.1	C47,C49
Breast	1	0.1	0.2	0.2	0.0	0.0	151	26.6	37.5	29.4	2.5	3.0	C50
Vulva							2	0.3	0.4	0.3	0.0	0.0	C51
Vagina							2	0.3	0.4	0.3	0.0	0.1	C52
Cervix uteri							87	15.2	21.5	16.6	1.3	1.8	C53
Corpus uteri							19	3.4	4.8	3.7	0.3	0.4	C54
Uterus unspecified							3	0.5	0.7	0.5	0.0	0.1	C55
Ovary							28	4.9	6.9	5.4	0.4	0.6	C56
Other female genital							1	0.2	0.2	0.2	0.0	0.0	C57
Placenta							0	0.1	0.1	0.1	0.0	0.0	C58
Penis	4	0.8	1.1	0.9	0.0	0.1							C60
Prostate	22	4.5	5.8	4.6	0.1	0.4							C61
Testis	2	0.3	0.4	0.4	0.0	0.0							C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0							C63
Kidney	4	0.9	1.2	1.0	0.0	0.1	2	0.4	0.6	0.4	0.0	0.0	C64
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	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	C66
Bladder	17	3.6	4.6	3.9	0.2	0.5	5	0.8	1.2	0.8	0.0	0.1	C67
Other urinary organs	0	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C68
Eye	2	0.3	0.4	0.6	0.0	0.0	1	0.1	0.2	0.2	0.0	0.0	C69
Brain, nervous system	8	1.7	2.2	2.2	0.1	0.3	5	0.9	1.3	1.3	0.1	0.1	C70-72
Thyroid	6	1.3	1.7	1.5	0.1	0.2	17	3.0	4.2	3.3	0.3	0.3	C73
Adrenal gland	0	0.1	0.1	0.1	0.0	0.0	0	0.1	0.1	0.2	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	C75
Hodgkin disease	2	0.4	0.5	0.5	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C81
Non-Hodgkin lymphoma	19	3.9	5.0	4.3	0.3	0.4	13	2.3	3.3	2.5	0.1	0.3	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	3	0.6	0.7	0.6	0.0	0.1	4	0.6	0.9	0.7	0.1	0.1	C90
Lymphoid leukemia	3	0.6	0.7	0.8	0.0	0.0	2	0.4	0.6	0.8	0.0	0.0	C91
Myeloid leukemia	6	1.3	1.6	1.5	0.1	0.2	5	0.8	1.2	0.9	0.1	0.1	C92-94
Leukemia unspecified	17	3.5	4.5	4.2	0.2	0.4	9	1.6	2.2	1.9	0.1	0.2	C95
Other and unspecified	37	7.7	9.9	8.5	0.5	1.0	33	5.8	8.2	6.1	0.4	0.7	O&U
All sites	**479**	**100.0**	**128.2**	**110.8**	**6.6**	**12.7**	**568**	**100.0**	**140.8**	**108.5**	**8.0**	**11.7**	**ALL**

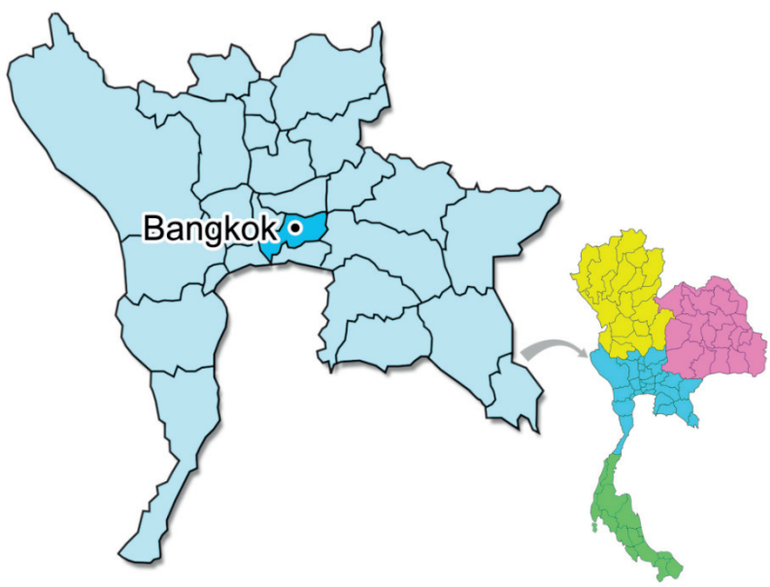
Table 3.9.4 Percentage of morphologically verified and death certificate only cases, Phra Nakhon Si Ayutthaya, 2008

Site	Male			Female			ICD-10
	Cases 3 Years	%MV	%DCO	Cases 3 Years	%MV	%DCO	
Oral cavity	34	73.5	8.8	18	61.1	5.6	C00-C08
Oropharynx, etc	16	68.8	0.0	4	50.0	25.0	C09-C10,C14
Nasopharynx	33	78.8	3.0	10	80.0	10.0	C11
Hypopharynx	28	89.3	0.0	3	100.0	0.0	C12-C13
Oesophagus	74	52.7	6.8	11	36.4	0.0	C15
Stomach	41	58.5	0.0	37	64.9	5.4	C16
Small intestine	1	100.0	0.0	4	75.0	0.0	C17
Colon and rectum	192	74.0	3.6	154	72.7	3.2	C18-C21
Liver and bile duct	219	35.2	14.2	94	27.7	9.6	C22,C24
Gallbladder	2	0.0	50.0	12	41.7	16.7	C23
Pancreas	18	55.6	5.6	19	15.8	0.0	C25
Nose, sinuses etc	9	66.7	0.0	4	75.0	0.0	C30-C31
Larynx	40	75.0	10.0	0	0.0	0.0	C32
Bronchus, lung	223	56.5	7.2	92	55.4	6.5	C33-C34
Other thoracic organs	2	50.0	0.0	3	100.0	0.0	C37-C38
Bone	5	60.0	20.0	13	61.5	7.7	C40-C41
Melanoma of skin	7	100.0	0.0	6	100.0	0.0	C43
Other skin	32	87.5	0.0	41	92.7	2.4	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	5	100.0	0.0	12	83.3	0.0	C47,C49
Breast	2	50.0	0.0	454	88.5	1.5	C50
Vulva				5	80.0	0.0	C51
Vagina				5	80.0	0.0	C52
Cervix uteri				260	78.5	2.3	C53
Corpus uteri				58	91.4	0.0	C54
Uterus unspecified				8	12.5	25.0	C55
Ovary				83	66.3	3.6	C56
Other female genital				3	66.7	33.3	C57
Placenta				1	100.0	0.0	C58
Penis	12	41.7	16.7				C60
Prostate	65	66.2	1.5				C61
Testis	5	60.0	20.0				C62
Other male genital organs	0	0.0	0.0				C63
Kidney	13	53.8	23.1	7	85.7	0.0	C64
Renal pelvis	0	0.0	0.0	0	0.0	0.0	C65
Ureter	0	0.0	0.0	0	0.0	0.0	C66
Bladder	52	42.3	5.8	14	78.6	0.0	C67
Other urinary organs	1	0.0	0.0	0	0.0	0.0	C68
Eye	5	100.0	0.0	2	100.0	0.0	C69
Brain, nervous system	25	44.0	24.0	16	56.3	12.5	C70-72
Thyroid	19	57.9	15.8	51	82.4	7.8	C73
Adrenal gland	1	0.0	0.0	1	100.0	0.0	C74
Other endocrine	0	0.0	0.0	0	0.0	0.0	C75
Hodgkin's disease	6	100.0	0.0	2	100.0	0.0	C81
Non-Hodgkin lymph	56	100.0	0.0	40	100.0	0.0	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	8	100.0	0.0	11	100.0	0.0	C90
Leukemia	76	86.8	9.2	48	79.2	10.4	C91-C95
Other and unspecified	111	33.3	24.3	99	40.4	20.2	O&U
All site	**1,438**	**60.3**	**8.6**	**1,705**	**73.2**	**4.6**	**ALL**

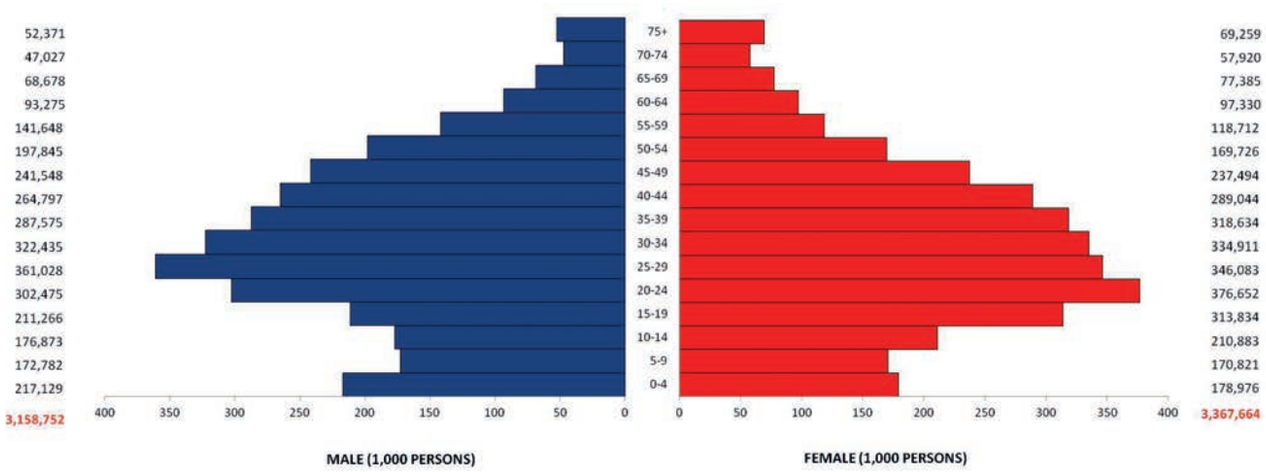
Bangkok Cancer Registry

Registration area

Bangkok Metropolis is the capital of Thailand, located in the central part of the country on the low-flat plain of the Chao Phraya River at latitude 13:45 N and longitude 100:28 E. It is the centre 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, 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.



Population pyramid, Bangkok, 2008



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 793:1, while it is 6,237:1 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 2008, 5,070 were males and 5,568 were females, making 10,638 for both sexes. The age - standardized incidence rate (ASR) of all sites in males was 176.4 per 100,000, with lung cancer ranking first (ASR = 32.6), followed by liver and bile duct (ASR = 29.5) and colon and rectum (ASR = 22.7). The ASR of all cancers in females was 170.2, the three leading sites being breast (ASR = 41.2), colon and rectum (ASR = 17.5) and cervix (ASR = 15.4).

Figure 3.10 Leading cancer in Bangkok, 2008

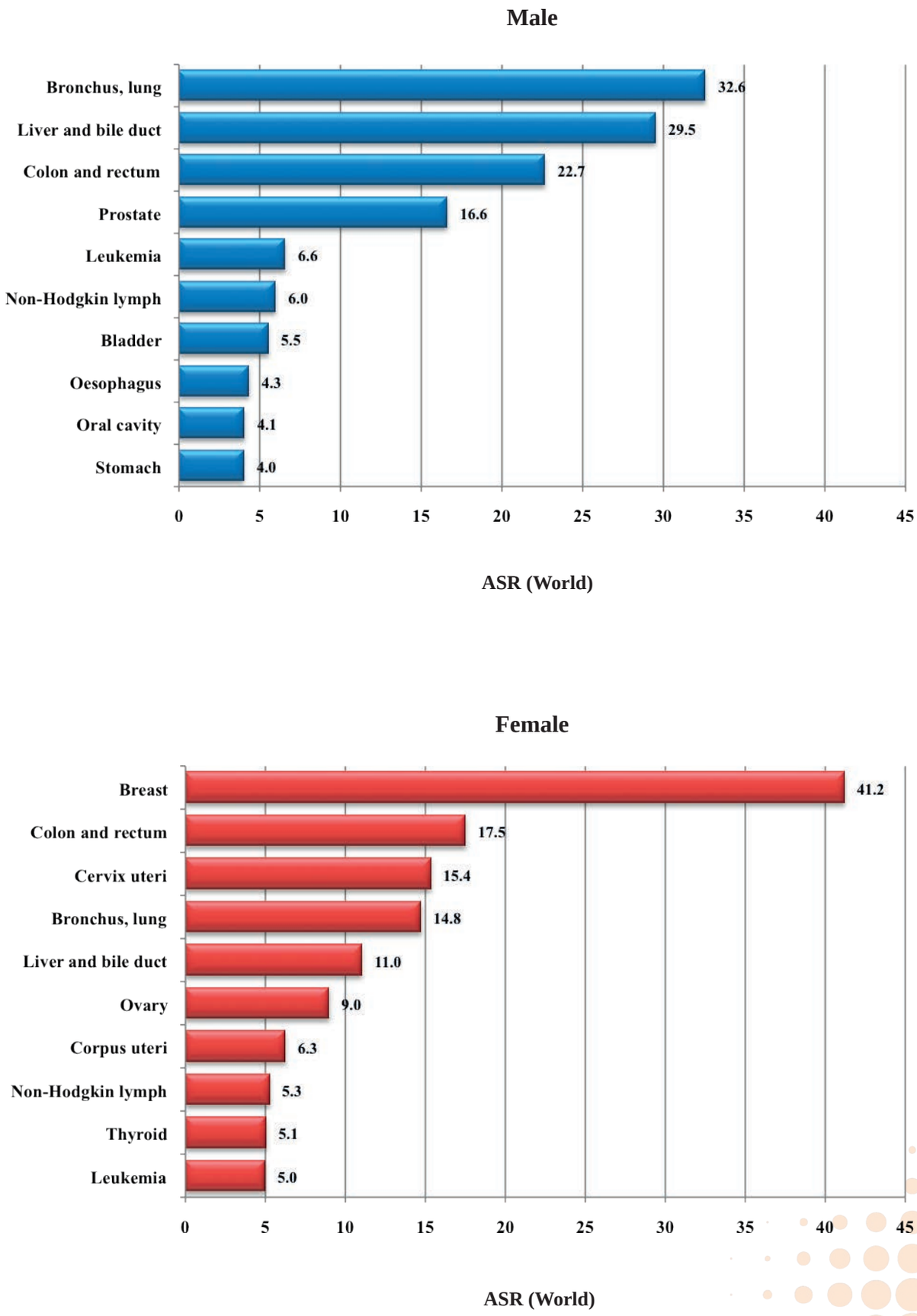


Table 3.10.1 Bangkok (2008), Annual Incidence per 100,000 by Age Group (years) - Male

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	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.1	0.1	C00
Tongue	61	0.2	0.0	0.0	0.0	0.2	0.3	0.4	0.7	1.6	2.8	5.9	5.9	7.1	11.6	12.8	8.3	1.9	2.0	C01-02
Mouth	45	0.0	0.0	0.2	0.0	0.1	0.1	0.2	0.1	0.9	1.7	3.4	4.5	10.0	7.8	8.5	9.5	1.4	1.5	C03-06
Salivary glands	15	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.3	0.5	0.7	1.0	1.2	2.5	1.9	2.1	3.2	0.5	0.5	C07-08
Tonsil	21	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	1.7	1.9	2.1	4.3	2.4	3.5	2.5	0.7	0.7	C09
Other oropharynx	9	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.3	0.7	1.1	1.0	1.4	1.3	0.3	0.3	C10
Nasopharynx	133	0.0	0.4	0.6	0.9	0.3	0.9	1.9	4.6	4.7	9.0	8.4	12.7	13.2	13.6	17.0	13.4	4.2	4.0	C11
Hypopharynx	35	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.5	1.6	0.8	2.2	3.5	2.9	5.8	11.3	10.8	1.1	1.2	C12-13
Pharynx unspecified	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.3	0.9	2.5	2.9	0.7	1.9	0.3	0.3	C14
Esophagus	128	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	2.1	5.8	10.4	15.3	15.7	25.2	26.9	38.2	4.1	4.3	C15
Stomach	115	0.0	0.0	0.0	0.2	0.0	0.4	0.7	0.7	1.8	3.7	5.6	9.6	14.3	21.4	31.2	52.8	3.6	4.0	C16
Small intestine	16	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.0	0.3	0.4	0.5	1.2	2.1	2.4	5.7	6.4	0.5	0.5	C17
Colon	397	0.0	0.0	0.4	0.3	0.4	1.7	0.7	2.7	5.2	9.5	19.2	33.9	56.1	68.4	132.5	178.9	12.6	14.2	C18
Rectum	229	0.0	0.0	0.2	0.0	0.3	0.5	0.8	1.4	2.9	5.0	12.0	22.4	39.3	49.0	69.5	78.3	7.2	8.2	C19-20
Anus	10	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.5	0.3	0.3	0.2	0.9	1.1	1.0	2.8	4.5	0.3	0.3	C21
Liver and bile duct	896	0.3	0.0	0.2	0.0	0.3	1.0	3.3	8.3	21.1	42.0	74.0	98.8	126.2	141.7	187.8	208.1	28.4	29.5	C22,C24
Gallbladder	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.5	1.6	1.1	1.5	2.8	10.2	0.4	0.5	C23
Pancreas	108	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.6	1.6	2.3	5.1	13.6	17.5	24.8	24.8	38.8	3.4	3.8	C25
Nose, sinuses etc.	25	0.2	0.0	0.2	0.2	0.0	0.1	0.1	0.8	1.0	0.6	1.5	2.4	1.8	4.4	4.3	7.6	0.8	0.8	C30-31
Larynx	87	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	1.3	3.4	7.8	6.1	8.9	21.4	21.3	31.8	2.8	3.0	C32
Trachea, Bronchus, and lung	913	0.0	0.0	0.0	0.3	0.2	0.5	1.4	5.8	14.5	25.8	45.8	75.3	105.4	195.6	298.4	415.6	28.9	32.6	C33-34
Other thoracic organs	12	0.2	0.0	0.6	0.0	0.8	0.0	0.3	0.5	0.1	0.4	0.3	0.2	1.1	1.9	2.1	0.6	0.4	0.4	C37-38
Bone	28	0.0	1.0	1.3	0.9	0.7	0.4	0.3	0.3	0.6	1.2	0.7	2.1	2.9	1.9	0.7	5.7	0.9	1.0	C40-C41
Melanoma of skin	11	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.4	0.6	0.3	1.4	1.1	1.0	4.3	1.9	0.3	0.4	C43
Other skin	62	0.2	0.0	0.2	0.2	0.1	0.2	0.4	0.9	0.8	1.4	1.5	4.0	6.8	8.7	19.1	40.1	2.0	2.2	C44
Mesothelioma	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.3	0.9	1.1	1.9	2.1	2.5	0.2	0.3	C45
Kaposi sarcoma	4	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.1	0.4	0.0	0.0	0.0	0.4	0.0	0.0	0.6	0.1	0.1	C46
Connective tissue	40	1.4	0.2	1.1	0.5	0.4	0.5	0.9	1.4	1.3	0.8	1.7	2.6	3.6	2.4	6.4	6.4	1.3	1.3	C47,C49
Breast	11	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.5	0.4	0.8	0.9	1.4	1.0	2.1	1.9	0.3	0.3	C50
Penis	15	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.8	0.6	1.0	1.6	1.8	1.5	1.4	5.1	0.5	0.5	C60
Prostate	421	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	1.8	6.4	23.1	54.0	122.8	190.0	279.4	13.3	16.6	C61
Testis	12	0.5	0.2	0.0	0.3	0.3	0.4	0.6	0.0	0.6	0.7	0.2	0.5	0.0	0.5	1.4	0.6	0.4	0.4	C62
Other male genital organs	2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.0	0.0	0.6	0.1	0.1	C63
Kidney	67	1.1	0.0	0.0	0.0	0.0	0.1	0.1	0.8	0.6	2.3	4.2	7.5	11.4	12.1	12.8	19.1	2.1	2.3	C64
Renal pelvis	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.7	0.7	1.0	2.1	3.2	0.2	0.2	C65
Ureter	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.7	1.1	1.0	1.4	2.5	0.2	0.2	C66
Bladder	150	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.3	0.6	2.8	6.1	13.4	17.9	31.5	47.5	91.7	4.8	5.5	C67
Other urinary organs	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.2	0.0	0.0	1.4	0.6	0.1	0.1	C68
Eye	9	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.2	0.2	1.1	0.5	1.4	3.8	0.3	0.4	C69
Brain, nervous system	116	1.5	2.7	2.6	2.7	0.7	0.9	1.4	3.8	3.9	3.7	6.2	6.8	12.2	11.2	16.3	15.9	3.7	3.9	C70-72
Thyroid	95	0.3	0.2	0.0	0.8	0.8	0.9	1.6	1.5	2.8	4.6	4.5	6.8	10.7	12.6	20.6	23.5	3.0	3.1	C73
Adrenal gland	2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.1	0.1	C74
Other endocrine	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.5	0.0	0.6	0.1	0.0	C75
Hodgkin disease	12	0.2	0.4	0.2	0.8	0.6	0.6	0.2	0.2	0.4	0.3	0.2	0.5	0.0	1.0	1.4	0.6	0.4	0.4	C81
Non-Hodgkin lymphoma	182	0.6	1.0	1.1	1.9	2.0	1.5	2.1	2.8	4.4	6.8	10.1	15.3	20.0	26.2	31.2	49.0	5.8	6.0	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	29	0.0	0.2	0.0	0.2	0.2	0.1	0.2	0.3	0.9	1.4	1.5	1.4	2.9	6.8	7.8	7.0	0.9	1.0	C90
Lymphoid leukemia	34	3.5	1.4	2.6	0.6	0.4	0.3	0.1	0.0	0.3	0.6	1.0	0.7	1.4	3.4	5.7	7.0	1.1	1.5	C91
Myeloid leukemia	56	0.8	1.4	1.1	1.3	0.4	0.7	1.6	0.9	1.5	2.6	3.0	1.9	2.5	8.7	5.7	10.2	1.8	1.8	C92-94
Leukemia unspecified	94	2.1	1.2	1.5	1.1	1.2	0.9	1.3	1.3	1.4	2.3	3.9	5.6	7.5	11.2	17.0	36.9	3.0	3.3	C95
Other and unspecified	316	0.5	0.4	1.3	0.6	0.7	1.4	2.2	2.4	7.2	8.7	18.9	28.7	31.8	59.7	80.8	119.7	10.0	10.8	O&U
All sites	**5,070**	**15.4**	**10.6**	**15.6**	**14.2**	**12.3**	**15.5**	**24.4**	**47.1**	**92.1**	**161.7**	**281.0**	**441.0**	**629.3**	**936.3**	**1348.2**	**1859.8**	**160.5**	**176.4**	**ALL**

Table 3.10.2 Bangkok (2008), Annual Incidence per 100,000 by Age Group (years) - 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	6	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.0	2.3	5.3	0.2	0.2	C00
Tongue	25	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.7	0.3	2.0	2.4	2.0	2.1	1.7	3.5	7.2	0.8	0.7	C01-02
Mouth	19	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.1	0.7	0.6	0.8	0.3	2.6	4.6	10.1	0.6	0.5	C03-06
Salivary glands	13	0.0	0.0	0.0	0.2	0.1	0.0	0.1	0.1	0.5	0.8	0.8	1.7	1.0	0.9	2.9	1.4	0.4	0.4	C07-08
Tonsil	4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.3	0.4	0.6	0.3	0.4	0.6	0.0	0.1	0.1	C09
Other oropharynx	2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	1.4	0.1	0.1	C10
Nasopharynx	50	0.0	0.2	0.0	0.2	0.1	0.7	1.1	1.2	1.7	2.7	4.7	5.9	4.1	2.6	3.5	6.3	1.5	1.4	C11
Hypopharynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.0	0.0	0.9	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	0.1	0.0	0.0	0.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	C14
Esophagus	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.8	1.7	1.0	3.0	2.9	12.0	0.5	0.6	C15
Stomach	113	0.0	0.0	0.0	0.0	0.0	0.5	0.8	1.5	3.3	4.4	4.7	10.4	9.2	14.6	22.4	43.3	3.3	3.4	C16
Small intestine	14	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.3	1.0	2.0	1.7	3.9	1.7	3.9	0.4	0.5	C17
Colon	364	0.0	0.0	0.0	0.1	0.4	0.7	1.7	2.2	5.0	9.7	21.2	38.7	43.5	55.1	69.6	148.7	10.8	11.6	C18
Rectum	175	0.2	0.0	0.0	0.1	0.2	0.4	0.8	1.2	2.7	5.2	13.6	13.2	21.2	31.0	38.6	58.7	5.2	5.6	C19-20
Anus	11	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.2	0.4	0.4	0.6	1.7	1.3	2.3	4.3	0.3	0.4	C21
Liver and bile duct	345	0.0	0.0	0.2	0.3	0.2	0.4	1.2	1.7	5.4	7.3	20.4	31.7	39.4	56.9	83.4	139.1	10.2	11.0	C22,C24
Gallbladder	31	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.3	0.6	2.0	2.5	3.1	3.9	8.1	14.4	0.9	1.0	C23
Pancreas	103	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.4	0.6	1.4	3.9	7.6	15.8	17.2	31.7	47.6	3.1	3.4	C25
Nose, sinuses etc.	8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.6	0.3	1.4	0.9	2.3	1.4	0.2	0.2	C30-31
Larynx	8	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.3	0.2	0.3	0.0	2.2	1.7	3.9	0.2	0.2	C32
Trachea, Bronchus, and lung	462	0.0	0.0	0.0	0.1	0.4	0.7	1.7	3.2	5.1	14.0	27.1	44.1	55.5	71.5	107.6	179.0	13.7	14.8	C33-34
Other thoracic organs	11	0.0	0.2	0.3	0.0	0.1	0.3	0.1	0.2	0.2	0.3	0.4	1.1	1.7	0.0	1.2	2.4	0.3	0.3	C37-38
Bone	29	0.0	0.2	1.4	0.7	0.3	0.3	0.5	0.4	0.6	0.8	1.6	2.2	2.1	1.7	5.2	4.3	0.9	0.9	C40-C41
Melanoma of skin	12	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.2	0.3	0.6	1.2	1.4	1.4	1.3	2.3	1.4	0.4	0.4	C43
Other skin	75	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	1.3	0.8	2.9	3.9	6.8	12.1	23.6	40.4	2.2	2.4	C44
Mesothelioma	3	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.3	0.0	0.4	0.0	1.9	0.1	0.1	C45
Kaposi sarcoma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	41	0.7	0.0	0.8	0.2	0.6	0.5	1.2	0.6	0.3	1.0	3.9	3.9	2.4	5.6	4.0	4.8	1.2	1.3	C47,C49
Breast	1406	0.0	0.0	0.0	0.4	0.7	3.9	11.3	28.6	56.3	100.9	138.5	175.8	138.4	127.1	141.6	142.9	41.8	41.2	C50
Vulva	9	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.1	0.6	0.3	1.4	0.9	1.7	2.9	0.3	0.3	C51
Vagina	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.8	2.5	1.0	0.4	3.5	3.4	0.3	0.4	C52
Cervix uteri	527	0.0	0.0	0.2	0.2	0.8	1.7	4.6	13.1	20.6	33.3	42.8	57.0	48.3	52.1	66.2	79.4	15.6	15.4	C53
Corpus uteri	199	0.2	0.0	0.0	0.0	0.1	0.5	1.1	1.7	4.5	10.8	23.6	29.8	26.4	29.3	22.4	17.8	5.9	6.3	C54
Uterus unspecified	43	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.1	0.3	3.1	3.1	4.2	5.1	7.3	8.1	10.1	1.3	1.4	C55
Ovary	303	0.4	0.8	0.5	1.0	1.3	2.0	4.0	5.3	9.6	18.0	28.3	37.1	29.1	31.4	31.1	31.8	9.0	9.0	C56
Other female genital	5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.4	0.8	0.0	0.4	1.2	1.4	0.1	0.1	C57
Placenta	3	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.1	C58
Kidney	42	0.4	0.2	0.2	0.1	0.3	0.2	0.2	0.3	0.7	1.1	1.8	2.5	4.8	6.0	10.9	15.9	1.3	1.4	C64
Renal pelvis	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.7	1.3	1.7	1.0	0.1	0.1	C65
Ureter	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	1.4	0.3	1.3	2.3	2.9	0.2	0.2	C66
Bladder	57	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.7	1.0	2.4	3.1	5.5	9.5	12.7	33.7	1.7	1.8	C67
Other urinary organs	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.0	0.0	1.2	0.5	0.1	0.1	C68
Eye	10	1.5	0.0	0.0	0.1	0.1	0.1	0.2	0.0	0.1	0.3	0.0	0.3	0.7	1.7	1.2	1.9	0.3	0.4	C69
Brain, nervous system	90	2.0	1.6	1.6	0.2	1.0	0.3	1.1	2.4	2.8	3.1	5.3	6.5	9.6	7.8	12.1	14.0	2.7	2.9	C70-72
Thyroid	179	0.0	0.0	0.6	1.7	1.3	3.4	4.7	3.5	5.8	6.3	11.2	13.8	11.3	18.1	25.3	32.7	5.3	5.1	C73
Adrenal gland	5	0.6	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.2	0.1	0.6	0.0	0.7	0.0	0.6	0.5	0.2	0.2	C74
Other endocrine	4	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.2	0.3	0.1	0.0	0.3	0.0	0.4	0.0	1.0	0.1	0.1	C75
Hodgkin disease	10	0.0	0.4	0.3	0.3	0.3	0.4	0.4	0.1	0.0	0.3	1.0	0.0	0.3	0.0	0.6	1.0	0.3	0.3	C81
Non-Hodgkin lymphoma	171	0.4	0.2	0.5	0.6	1.1	1.0	2.2	2.8	3.7	4.1	9.2	16.3	21.2	23.3	31.7	44.8	5.1	5.3	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	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	C88
Multiple myeloma	39	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.4	1.0	1.0	2.4	2.5	7.5	9.5	10.4	6.3	1.2	1.3	C90
Lymphoid leukemia	25	2.2	1.4	1.1	0.2	0.5	0.3	0.2	0.4	0.2	0.6	0.6	0.8	0.7	1.3	2.9	4.8	0.7	1.0	C91
Myeloid leukemia	49	0.9	0.2	0.3	0.4	0.2	0.8	1.0	1.9	0.8	2.4	1.8	5.1	2.7	6.9	4.6	6.3	1.4	1.5	C92-94
Leukemia unspecified	82	1.3	1.4	0.6	0.6	0.3	0.5	0.9	1.6	2.2	2.8	4.5	7.6	5.8	6.5	9.8	25.5	2.4	2.6	C95
Other and unspecified	335	0.9	0.6	0.3	0.1	1.2	1.3	3.1	3.0	6.3	9.7	17.1	32.6	34.6	45.2	71.9	119.8	9.9	10.5	O&U
All sites	**5 568**	**11.9**	**7.4**	**9.0**	**8.5**	**11.7**	**22.4**	**47.0**	**81.4**	**146.5**	**254.0**	**411.4**	**578.4**	**573.6**	**679.3**	**901.8**	**1346.2**	**165.3**	**170.2**	**ALL**

Table 3.10.3 Annual incidence, Bangkok, 2008

Site	Male						Female						ICD-10
	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	
Lip	2	0.0	0.1	0.1	0.0	0.0	6	0.1	0.2	0.2	0.0	0.0	C00
Tongue	61	1.2	1.9	2.0	0.1	0.2	25	0.5	0.8	0.7	0.0	0.1	C01-02
Mouth	45	0.9	1.4	1.5	0.1	0.2	19	0.3	0.6	0.5	0.0	0.1	C03-06
Salivary glands	15	0.3	0.5	0.5	0.0	0.1	13	0.2	0.4	0.4	0.0	0.0	C07-08
Tonsil	21	0.4	0.7	0.7	0.1	0.1	4	0.1	0.1	0.1	0.0	0.0	C09
Other oropharynx	9	0.2	0.3	0.3	0.0	0.0	2	0.0	0.1	0.1	0.0	0.0	C10
Nasopharynx	133	2.6	4.2	4.0	0.3	0.4	50	0.9	1.5	1.4	0.1	0.1	C11
Hypopharynx	35	0.7	1.1	1.2	0.1	0.1	2	0.0	0.1	0.1	0.0	0.0	C12-13
Pharynx unspecified	9	0.2	0.3	0.3	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	C14
Esophagus	128	2.5	4.1	4.3	0.2	0.5	18	0.3	0.5	0.6	0.0	0.1	C15
Stomach	115	2.3	3.6	4.0	0.2	0.4	113	2.0	3.3	3.4	0.2	0.4	C16
Small intestine	16	0.3	0.5	0.5	0.0	0.1	14	0.3	0.4	0.5	0.0	0.1	C17
Colon	397	7.8	12.6	14.2	0.7	1.7	364	6.5	10.8	11.6	0.6	1.2	C18
Rectum	229	4.5	7.2	8.2	0.4	1.0	175	3.1	5.2	5.6	0.3	0.6	C19-20
Anus	10	0.2	0.3	0.3	0.0	0.0	11	0.2	0.3	0.4	0.0	0.0	C21
Liver and bile duct	896	17.7	28.4	29.5	1.9	3.5	345	6.2	10.2	11.0	0.5	1.2	C22,C24
Gallbladder	14	0.3	0.4	0.5	0.0	0.0	31	0.6	0.9	1.0	0.0	0.1	C23
Pancreas	108	2.1	3.4	3.8	0.2	0.5	103	1.8	3.1	3.4	0.1	0.4	C25
Nose, sinuses etc.	25	0.5	0.8	0.8	0.0	0.1	8	0.1	0.2	0.2	0.0	0.0	C30-31
Larynx	87	1.7	2.8	3.0	0.1	0.4	8	0.1	0.2	0.2	0.0	0.0	C32
Trachea, Bronchus, and lung	913	18.0	28.9	32.6	1.4	3.8	462	8.3	13.7	14.8	0.8	1.7	C33-34
Other thoracic organs	12	0.2	0.4	0.4	0.0	0.0	11	0.2	0.3	0.3	0.0	0.0	C37-38
Bone	28	0.5	0.9	1.0	0.1	0.1	29	0.5	0.9	0.9	0.1	0.1	C40-C41
Melanoma of skin	11	0.2	0.3	0.4	0.0	0.0	12	0.2	0.4	0.4	0.0	0.0	C43
Other skin	62	1.2	2.0	2.2	0.1	0.2	75	1.3	2.2	2.4	0.1	0.3	C44
Mesothelioma	8	0.2	0.2	0.3	0.0	0.0	3	0.1	0.1	0.1	0.0	0.0	C45
Kaposi sarcoma	4	0.1	0.1	0.1	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	C46
Connective tissue	40	0.8	1.3	1.3	0.1	0.1	41	0.7	1.2	1.3	0.1	0.1	C47,C49
Breast	11	0.2	0.3	0.3	0.0	0.0	1,406	25.3	41.8	41.2	3.3	4.6	C50
Vulva							9	0.2	0.3	0.3	0.0	0.0	C51
Vagina							12	0.2	0.3	0.4	0.0	0.0	C52
Cervix uteri							527	9.5	15.6	15.4	1.1	1.7	C53
Corpus uteri							199	3.6	5.9	6.3	0.5	0.8	C54
Uterus unspecified							43	0.8	1.3	1.4	0.1	0.2	C55
Ovary							303	5.4	9.0	9.0	0.7	1.0	C56
Other female genital							5	0.1	0.1	0.1	0.0	0.0	C57
Placenta							3	0.1	0.1	0.1	0.0	0.0	C58
Penis	15	0.3	0.5	0.5	0.0	0.0							C60
Prostate	421	8.3	13.3	16.6	0.4	2.0							C61
Testis	12	0.2	0.4	0.4	0.0	0.0							C62
Other male genital organs	2	0.0	0.1	0.1	0.0	0.0							C63
Kidney	67	1.3	2.1	2.3	0.1	0.3	42	0.8	1.3	1.4	0.1	0.1	C64
Renal pelvis	5	0.1	0.2	0.2	0.0	0.0	4	0.1	0.1	0.1	0.0	0.0	C65
Ureter	6	0.1	0.2	0.2	0.0	0.0	8	0.1	0.2	0.2	0.0	0.0	C66
Bladder	150	3.0	4.8	5.5	0.2	0.6	57	1.0	1.7	1.8	0.1	0.2	C67
Other urinary organs	3	0.1	0.1	0.1	0.0	0.0	3	0.0	0.1	0.1	0.0	0.0	C68
Eye	9	0.2	0.3	0.4	0.0	0.0	10	0.2	0.3	0.4	0.0	0.0	C69
Brain, nervous system	116	2.3	3.7	3.9	0.2	0.4	90	1.6	2.7	2.9	0.2	0.3	C70-72
Thyroid	95	1.9	3.0	3.1	0.2	0.3	179	3.2	5.3	5.1	0.3	0.5	C73
Adrenal gland	2	0.0	0.1	0.1	0.0	0.0	5	0.1	0.2	0.2	0.0	0.0	C74
Other endocrine	2	0.0	0.1	0.0	0.0	0.0	4	0.1	0.1	0.1	0.0	0.0	C75
Hodgkin disease	12	0.2	0.4	0.4	0.0	0.0	10	0.2	0.3	0.3	0.0	0.0	C81
Non-Hodgkin lymphoma	182	3.6	5.8	6.0	0.3	0.6	171	3.1	5.1	5.3	0.3	0.6	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	29	0.6	0.9	1.0	0.0	0.1	39	0.7	1.2	1.3	0.1	0.2	C90
Lymphoid leukemia	34	0.7	1.1	1.5	0.1	0.1	25	0.4	0.7	1.0	0.0	0.1	C91
Myeloid leukemia	56	1.1	1.8	1.8	0.1	0.2	49	0.9	1.4	1.5	0.1	0.1	C92-94
Leukemia unspecified	94	1.8	3.0	3.3	0.2	0.3	82	1.5	2.4	2.6	0.2	0.2	C95
Other and unspecified	316	6.2	10.0	10.8	0.5	1.2	335	6.0	9.9	10.5	0.6	1.1	O&U
All sites	**5,070**	**100.0**	**160.5**	**176.4**	**8.8**	**20.2**	**5,568**	**100.0**	**165.3**	**170.2**	**10.8**	**18.7**	**ALL**

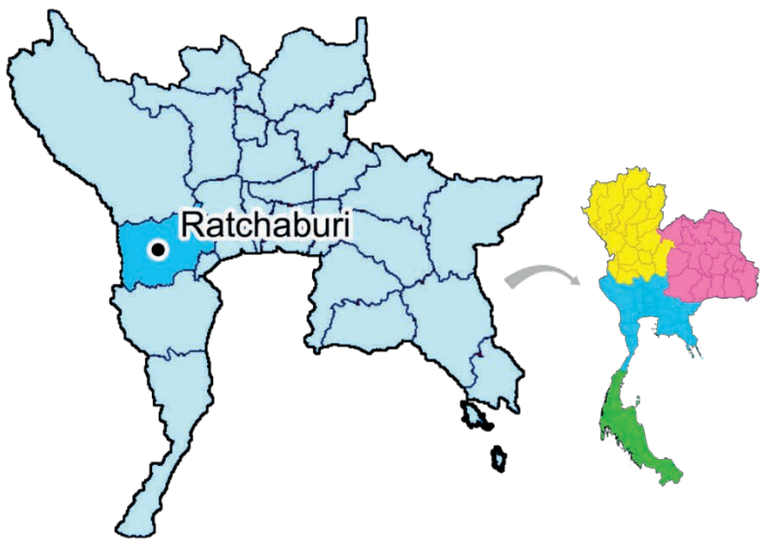
Table 3.10.4 Percentage of morphologically verified and death certificate only cases, Bangkok, 2008

Site	Male			Female			ICD-10
	Cases 3 Years	%MV	%DCO	Cases 3 Years	%MV	%DCO	
Oral cavity	371	77.9	6.7	189	75.1	6.9	C00-C08
Oropharynx, etc	116	78.4	3.4	25	52.0	20.0	C09-C10,C14
Nasopharynx	398	81.7	3.3	149	80.5	1.3	C11
Hypopharynx	106	90.6	0.0	6	66.7	0.0	C12-C13
Oesophagus	385	78.7	6.5	55	58.2	7.3	C15
Stomach	344	78.8	4.4	338	76.6	4.4	C16
Small intestine	47	76.6	2.1	43	79.1	4.7	C17
Colon and rectum	1906	82.6	3.4	1653	82.5	3.3	C18-C21
Liver and bile duct	2689	62.9	13.4	1035	63.2	13.2	C22,C24
Gallbladder	42	59.5	16.7	92	66.3	10.9	C23
Pancreas	323	62.8	8.7	309	64.4	11.0	C25
Nose, sinuses etc	75	69.3	6.7	24	70.8	12.5	C30-C31
Larynx	261	73.2	6.1	23	73.9	13.0	C32
Bronchus, lung	2739	57.1	11.4	1386	58.7	9.3	C33-C34
Other thoracic organs	36	83.3	8.3	32	65.6	3.1	C37-C38
Bone	83	59.0	18.1	87	62.1	16.1	C40-C41
Melanoma of skin	33	100.0	0.0	37	100.0	0.0	C43
Other skin	187	85.6	4.8	224	85.7	7.6	C44
Mesothelioma	23	100.0	0.0	9	88.9	0.0	C45
Kaposi sarcoma	11	100.0	0.0	3	100.0	0.0	C46
Connective and soft tissue	120	85.0	5.0	122	79.5	7.4	C47,C49
Breast	32	56.3	0.0	4219	89.1	2.0	C50
Vulva				26	80.8	3.8	C51
Vagina				35	80.0	5.7	C52
Cervix uteri				1580	83.5	3.6	C53
Corpus uteri				597	91.3	1.2	C54
Uterus unspecified				129	62.8	14.7	C55
Ovary				910	79.7	3.8	C56
Other female genital				14	57.1	21.4	C57
Placenta				9	22.2	0.0	C58
Penis	45	77.8	4.4				C60
Prostate	1264	90.9	2.5				C61
Testis	36	72.2	2.8				C62
Other male genital organs	5	80.0	0.0				C63
Kidney	200	80.5	4.5	127	78.0	1.6	C64
Renal pelvis	16	75.0	0.0	12	75.0	0.0	C65
Ureter	17	88.2	0.0	23	60.9	8.7	C66
Bladder	451	82.5	3.8	171	77.2	4.7	C67
Other urinary organs	8	25.0	25.0	8	12.5	0.0	C68
Eye	27	74.1	0.0	29	62.1	0.0	C69
Brain, nervous system	347	74.4	6.9	271	68.3	8.1	C70-72
Thyroid	286	89.5	6.6	538	89.6	4.5	C73
Adrenal gland	5	40.0	60.0	16	75.0	6.3	C74
Other endocrine	5	40.0	20.0	12	50.0	8.3	C75
Hodgkin's disease	37	100.0	0.0	30	100.0	0.0	C81
Non-Hodgkin lymph	545	98.7	1.3	513	98.6	1.4	C82-85,C96
Immunoproliferative diseases	0	0.00	0.00	1	100.0	0.0	C88
Multiple myeloma	86	100.0	0.0	118	98.3	1.7	C90
Leukemia	549	96.0	4.0	468	94.7	5.3	C91-C95
Other and unspecified	947	63.5	19.4	1005	60.9	19.4	O&U
All site	**15,210**	**73.9**	**8.1**	**16,705**	**79.6**	**5.7**	**ALL**

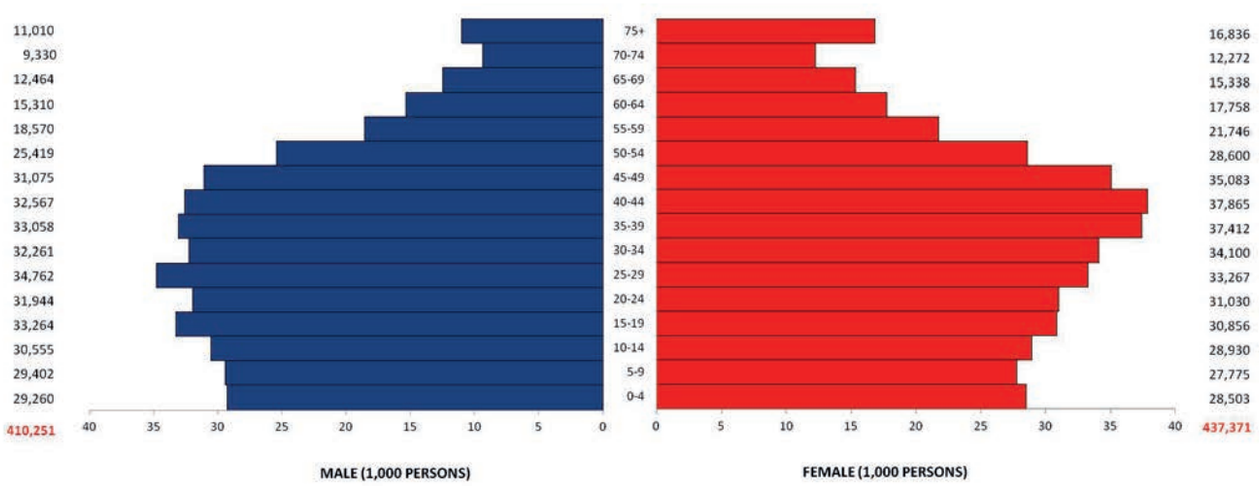
Ratchaburi Cancer Registry

Registration area

Ratchaburi, one of the central provinces of Thailand, covers 5200 km² at a latitude 13 : 32 N and longitude 99 : 49 E. It is located 100 kilometers west of Bangkok and borders Burma to the west with the Tanaosi Range as a national border. The estimated population in the year 2008 was 847,622 and 1.1 % of the population are members of hill tribes.



Population pyramid, Ratchaburi, 2008



Cancer care facilities

Ratchaburi Cancer Registry in under the supervision of the National Cancer Institute. Ratchaburi provincial hospital is a general hospital. Cancer surgery and chemotherapy services are provided at Ratchaburi provincial hospital and private hospitals. The cancer patients are referred for radiotherapy to other hospitals in Bangkok.

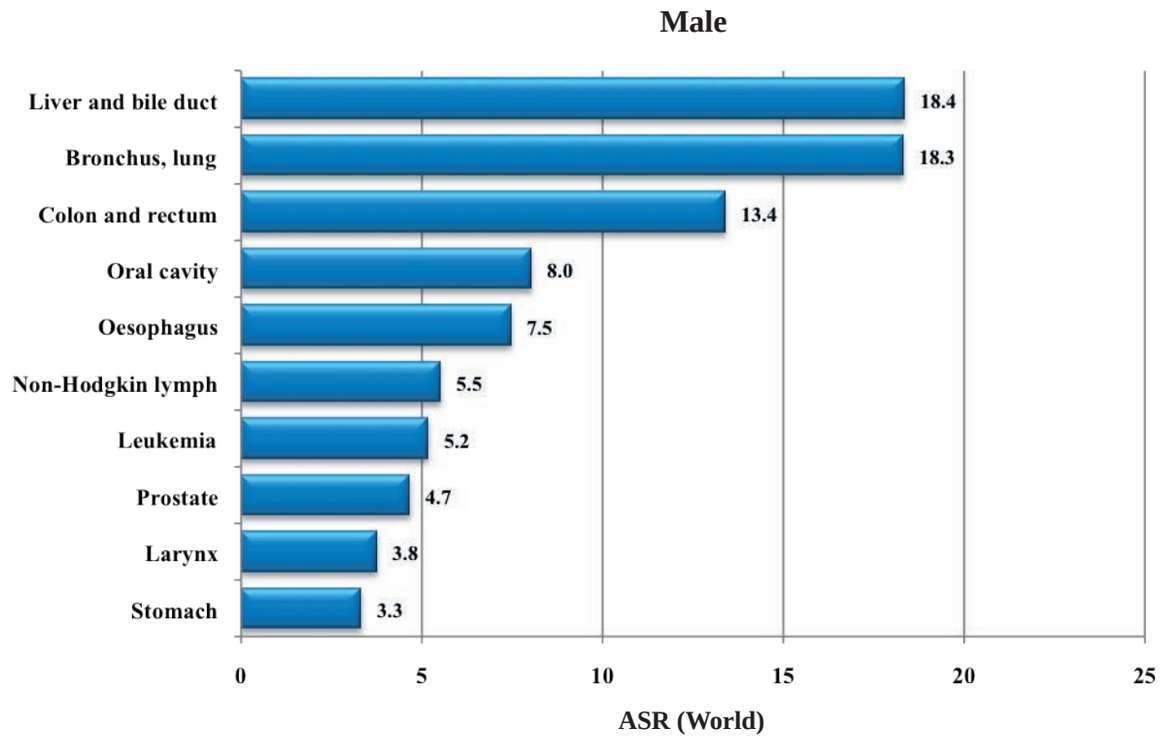
Registry procedures

The population-based cancer registry Ratchaburi province was set up at the National Cancer Institute, Bangkok in 2000. The source of information comes from all hospitals in Ratchaburi province and Bangkok cancer registry. Cancer cases are collected from the medical records department, outpatient clinics, pathology laboratories, clinical laboratories and death certificates. All data are checked for duplication, verified, coded and keyed into The Thai Cancer Base Programme and IARC/IACR Cancer Registry tools programme.

Summary of results

New cases registered in 2008, 567 were males and 587 were females, making 1,154 for both sexes. The age - standardized incidence rate (ASR) of all sites in males was 121.2 per 100,000, with liver and bile duct cancer ranking first (ASR = 18.4), followed by lung (ASR = 18.3) and colon and rectum (ASR = 13.4). The ASR of all cancers in females was 102.9, the three leading sites being breast (ASR = 23.1), cervix (ASR = 17.7) and colon and rectum (ASR = 8.4).

Figure 3.11 Leading cancer in Ratchaburi, 2008



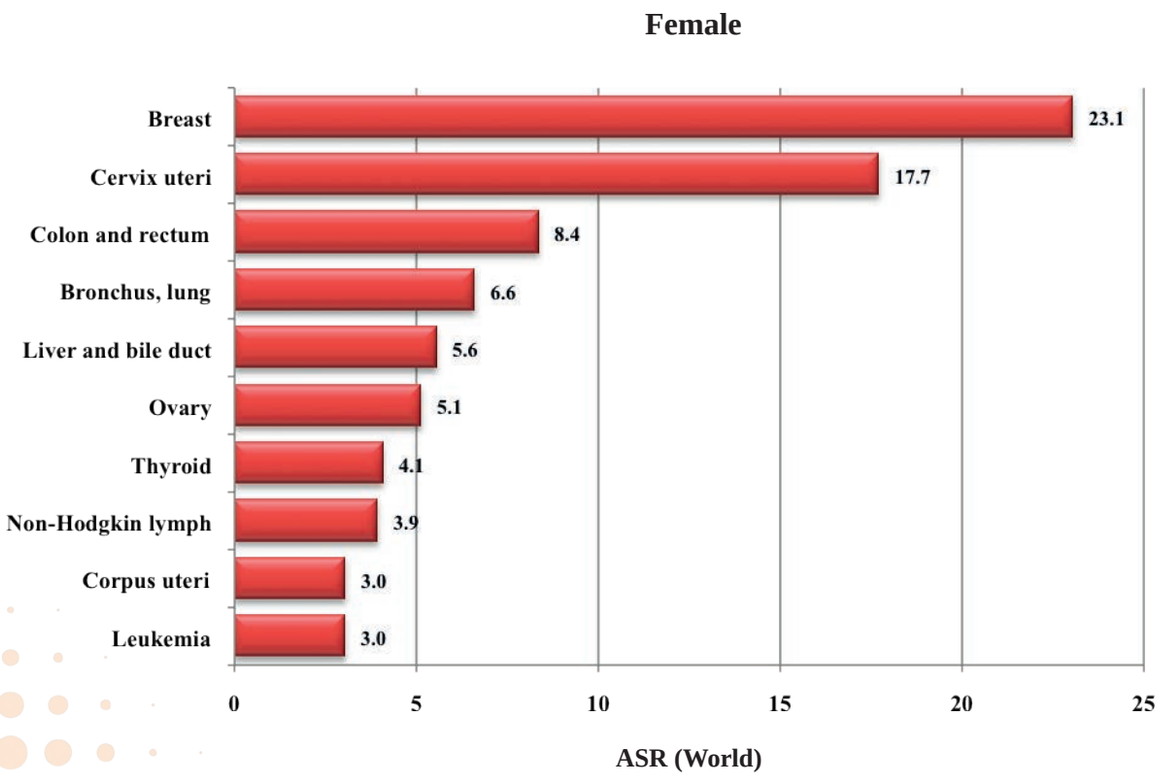


Table 3.11.1 Ratchaburi (2008), Annual Incidence per 100,000 by Age Group (years) - Male

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	1.0	1.1	0.0	0.0	0.0	0.0	0.0	3.0	0.2	0.2	C00
Tongue	18	0.0	0.0	0.0	0.0	0.0	1.0	0.0	2.0	3.1	3.2	13.1	18.0	15.2	16.0	17.9	21.2	4.4	3.8	C01-02
Mouth	17	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	3.1	2.1	10.5	10.8	19.6	29.4	14.3	21.2	4.2	3.8	C03-06
Salivary glands	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	4.4	0.0	3.6	0.0	0.2	0.2	C07-08
Tonsil	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	4.3	9.2	7.2	4.4	0.0	10.7	6.1	2.0	1.6	C09
Other oropharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.6	0.0	0.0	0.0	0.0	3.0	0.3	0.3	C10
Nasopharynx	15	0.0	0.0	0.0	0.0	0.0	2.9	3.1	3.0	5.1	6.4	6.6	10.8	10.9	8.0	14.3	6.1	3.7	3.1	C11
Hypopharynx	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	2.1	7.9	14.4	6.5	10.7	10.7	12.1	2.8	2.4	C12-13
Pharynx unspecified	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.6	1.8	0.0	0.0	0.0	12.1	0.7	0.5	C14
Esophagus	35	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	5.1	11.8	27.5	35.9	21.8	37.4	42.9	30.3	8.6	7.5	C15
Stomach	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	4.3	9.2	10.8	15.2	10.7	32.2	21.2	3.8	3.3	C16
Small intestine	1	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	0.0	0.0	0.0	0.2	0.1	C17
Colon	38	0.0	0.0	0.0	0.0	1.0	1.0	2.1	0.0	6.1	9.7	11.8	26.9	41.4	37.4	67.9	60.6	9.3	8.2	C18
Rectum	22	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	2.0	5.4	6.6	12.6	23.9	21.4	32.2	54.5	5.4	4.8	C19-20
Anus	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.3	0.0	6.5	0.0	0.0	0.0	0.4	0.4	C21
Liver and bile duct	86	0.0	0.0	0.0	0.0	1.0	1.0	3.1	6.0	18.4	29.0	51.1	86.2	74.0	82.9	85.7	81.7	21.0	18.4	C22,C24
Gallbladder	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	3.6	0.0	2.7	0.0	6.1	0.5	0.4	C23
Pancreas	11	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	4.1	5.4	3.9	3.6	6.5	10.7	14.3	21.2	2.8	2.3	C25
Nose, sinuses etc.	3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	0.0	1.1	0.0	0.0	0.0	8.0	0.0	3.0	0.7	0.5	C30-31
Larynx	18	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	2.0	5.4	11.8	12.6	15.2	18.7	25.0	24.2	4.3	3.8	C32
Trachea, Bronchus, and lung	88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	9.2	11.8	35.4	55.6	52.3	117.7	117.9	236.1	21.4	18.3	C33-34
Other thoracic organs	2	0.0	0.0	2.2	0.0	0.0	1.0	0.0	1.0	0.0	1.1	0.0	1.8	0.0	2.7	0.0	0.0	0.6	0.5	C37-38
Bone	3	0.0	0.0	0.0	1.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	1.8	4.4	5.3	3.6	0.0	0.7	0.7	C40-C41
Melanoma of skin	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	2.2	0.0	0.0	6.1	0.3	0.3	C43
Other skin	11	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	2.1	1.3	3.6	8.7	24.1	14.3	24.2	2.7	2.4	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	1.8	0.0	0.0	0.0	0.0	0.1	0.1	C45
Kaposi 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	3	0.0	1.1	0.0	0.0	1.0	0.0	0.0	1.0	1.0	1.1	2.6	0.0	2.2	2.7	0.0	0.0	0.7	0.7	C47,C49
Breast	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.1	0.1	C50
Penis	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	5.4	1.3	3.6	8.7	2.7	0.0	3.0	1.3	1.1	C60
Prostate	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.9	10.8	21.8	26.7	42.9	72.7	5.4	4.7	C61
Testis	3	0.0	0.0	1.1	0.0	1.0	1.0	2.1	2.0	1.0	0.0	0.0	0.0	0.0	2.7	3.6	0.0	0.8	0.7	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	5	0.0	1.1	0.0	0.0	0.0	0.0	0.0	3.0	1.0	1.1	1.3	5.4	0.0	0.0	7.1	12.1	1.3	1.1	C64
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
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	11	1.1	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	3.2	1.3	5.4	6.5	13.4	21.4	24.2	2.6	2.4	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	2.2	0.0	3.6	3.0	0.2	0.2	C68
Eye	1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	2.7	0.0	3.0	0.3	0.3	C69
Brain, nervous system	11	1.1	2.3	1.1	2.0	1.0	0.0	0.0	3.0	3.1	3.2	6.6	0.0	2.2	10.7	14.3	9.1	2.7	2.5	C70-72
Thyroid	7	0.0	0.0	0.0	0.0	0.0	0.0	4.1	1.0	1.0	2.1	3.9	9.0	6.5	0.0	3.6	3.0	1.7	1.4	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	3.0	0.1	0.1	C75
Hodgkin disease	1	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.2	0.2	C81
Non-Hodgkin lymphoma	25	0.0	0.0	2.2	1.0	1.0	3.8	1.0	7.1	4.1	5.4	7.9	18.0	32.7	16.0	14.3	30.3	6.2	5.5	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.6	4.4	0.0	7.1	0.0	0.6	0.5	C90
Lymphoid leukemia	7	4.6	1.1	5.5	0.0	2.1	1.9	0.0	0.0	2.0	1.1	1.3	1.8	0.0	2.7	3.6	0.0	1.7	1.9	C91
Myeloid leukemia	9	0.0	0.0	2.2	1.0	0.0	1.0	2.1	0.0	2.0	1.1	2.6	3.6	4.4	8.0	14.3	12.1	2.1	1.9	C92-94
Leukemia unspecified	6	1.1	1.1	0.0	0.0	3.1	1.0	1.0	1.0	2.0	1.1	0.0	3.6	0.0	0.0	3.6	12.1	1.5	1.3	C95
Other and unspecified	30	0.0	0.0	0.0	1.0	0.0	1.0	0.0	2.0	3.1	9.7	15.7	25.1	19.6	42.8	42.9	33.3	7.3	6.4	O&U
All sites	**567**	**9.1**	**6.8**	**14.2**	**8.0**	**12.5**	**21.1**	**22.7**	**51.4**	**90.1**	**145.9**	**266.2**	**409.3**	**448.5**	**575.0**	**689.5**	**875.0**	**138.1**	**121.2**	**ALL**

Table 3.11.2 Ratchaburi (2008), Annual Incidence per 100,000 by Age Group (years) - 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	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	5.4	7.9	0.5	0.3	C00
Tongue	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	1.2	0.0	3.8	0.0	0.0	2.0	0.5	0.4	C01-02
Mouth	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	0.0	2.3	3.1	3.8	6.5	10.9	29.7	2.4	1.6	C03-06
Salivary glands	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	1.9	0.0	0.0	2.0	0.2	0.2	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	0.0	1.9	0.0	0.0	2.0	0.2	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	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	1.9	2.3	1.5	0.0	4.3	0.0	2.0	0.8	0.6	C11
Hypopharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.2	0.0	0.0	2.2	0.0	2.0	0.3	0.2	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
Esophagus	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.2	3.1	1.9	2.2	5.4	11.9	1.1	0.7	C15
Stomach	15	0.0	0.0	0.0	1.1	0.0	1.0	1.0	1.8	4.4	1.9	3.5	4.6	16.9	15.2	10.9	11.9	3.4	2.7	C16
Small intestine	1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	2.0	0.2	0.2	C17
Colon	33	0.0	0.0	0.0	0.0	1.1	1.0	0.0	3.6	5.3	8.6	5.8	26.1	16.9	21.7	40.7	45.5	7.6	5.6	C18
Rectum	16	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.8	1.8	5.7	5.8	3.1	11.3	15.2	13.6	21.8	3.6	2.7	C19-20
Anus	1	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	0.0	2.0	0.2	0.1	C21
Liver and bile duct	32	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.8	6.2	8.6	9.3	23.0	28.2	19.6	40.7	29.7	7.3	5.6	C22,C24
Gallbladder	3	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.9	0.9	0.0	0.0	1.5	1.9	2.2	8.1	2.0	0.8	0.6	C23
Pancreas	9	0.0	0.0	0.0	0.0	1.1	0.0	1.0	0.0	0.0	1.0	2.3	3.1	7.5	15.2	8.1	11.9	2.1	1.6	C25
Nose, sinuses etc.	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.5	1.9	0.0	0.0	0.0	0.2	0.2	C30-31
Larynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	1.9	0.0	0.0	0.0	0.2	0.2	C32
Trachea, Bronchus, and lung	39	0.0	0.0	0.0	0.0	1.1	0.0	2.0	1.8	4.4	8.6	14.0	26.1	28.2	30.4	35.3	51.5	8.8	6.6	C33-34
Other thoracic organs	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	C37-38
Bone	2	0.0	0.0	0.0	2.2	0.0	1.0	0.0	0.0	1.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	C40-C41
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	1.5	5.6	2.2	2.7	0.0	0.5	0.4	C43
Other skin	12	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.9	4.8	3.5	6.1	5.6	6.5	5.4	27.7	2.7	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 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	4	1.2	0.0	1.2	1.1	1.1	0.0	1.0	0.0	1.8	1.9	2.3	1.5	0.0	0.0	0.0	2.0	1.0	0.9	C47,C49
Breast	131	0.0	0.0	0.0	0.0	1.1	8.0	14.7	22.3	54.6	60.8	96.7	70.5	60.1	52.2	40.7	37.6	30.0	23.1	C50
Vulva	1	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	2.2	0.0	0.0	0.3	0.3	C51
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	5.6	4.3	0.0	2.0	0.5	0.4	C52
Cervix uteri	101	0.0	0.0	0.0	0.0	2.1	3.0	13.7	18.7	29.9	52.3	46.6	50.6	56.3	69.5	43.5	43.6	23.0	17.7	C53
Corpus uteri	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	1.8	5.7	16.3	15.3	7.5	17.4	5.4	4.0	3.9	3.0	C54
Uterus unspecified	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.0	3.5	3.1	0.0	2.2	2.7	4.0	0.8	0.6	C55
Ovary	28	1.2	0.0	1.2	1.1	1.1	1.0	4.9	2.7	9.7	16.2	14.0	19.9	15.0	8.7	5.4	7.9	6.4	5.1	C56
Other female genital	0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C58
Kidney	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	1.9	0.0	2.7	2.0	0.5	0.3	C64
Renal pelvis	1	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	2.7	0.0	0.2	0.1	C65
Ureter	1	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	2.0	0.2	0.1	C66
Bladder	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	1.9	13.0	13.6	19.8	2.0	1.4	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	1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.2	0.2	C69
Brain, nervous system	8	0.0	1.2	0.0	1.1	0.0	0.0	1.0	0.0	1.8	5.7	0.0	3.1	3.8	4.3	5.4	7.9	1.8	1.4	C70-72
Thyroid	21	0.0	0.0	0.0	3.2	5.4	8.0	3.9	3.6	12.3	2.9	7.0	9.2	9.4	2.2	8.1	2.0	4.8	4.1	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	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	0.0	0.1	0.1	C81
Non-Hodgkin lymphoma	23	0.0	0.0	1.2	1.1	3.2	0.0	1.0	6.2	4.4	3.8	9.3	10.7	3.8	17.4	13.6	35.6	5.3	3.9	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.9	2.2	5.4	5.9	0.6	0.4	C90
Lymphoid leukemia	3	2.3	2.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	2.0	0.6	0.8	C91
Myeloid leukemia	5	0.0	0.0	0.0	1.1	0.0	1.0	2.9	0.9	0.0	1.0	2.3	3.1	1.9	0.0	2.7	2.0	1.1	0.9	C92-94
Leukemia unspecified	7	0.0	1.2	0.0	0.0	1.1	0.0	2.0	0.0	0.0	2.9	3.5	1.5	0.0	10.9	5.4	7.9	1.7	1.3	C95
Other and unspecified	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	1.8	3.8	10.5	13.8	13.1	6.5	32.6	39.6	5.3	3.7	O&U
All sites	**587**	**5.8**	**4.8**	**5.8**	**14.0**	**20.4**	**26.1**	**50.8**	**76.6**	**149.7**	**205.2**	**275.1**	**309.6**	**324.7**	**358.6**	**377.6**	**493.0**	**134.1**	**102.9**	**ALL**

Table 3.11.3 Annual incidence, Ratchaburi, 2008

Site	Male						Female						ICD-10
	No. Cases Year	Freq. (%)	Crude rate	ASR world	Com. 0-64	Rate. 0-74	No. Cases Year	Freq. (%)	Crude rate	ASR world	Com. 0-64	Rate. 0-74	
			(per 100,000)		(percent)				(per 100,000)		(percent)		
Lip	1	0.2	0.2	0.2	0.0	0.0	2	0.3	0.5	0.3	0.0	0.0	C00
Tongue	18	3.2	4.4	3.8	0.3	0.4	2	0.3	0.5	0.4	0.0	0.0	C01-02
Mouth	17	3.1	4.2	3.8	0.2	0.5	10	1.8	2.4	1.6	0.1	0.1	C03-06
Salivary glands	1	0.2	0.2	0.2	0.0	0.0	1	0.2	0.2	0.2	0.0	0.0	C07-08
Tonsil	8	1.4	2.0	1.6	0.1	0.2	1	0.1	0.2	0.1	0.0	0.0	C09
Other oropharynx	1	0.2	0.3	0.3	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C10
Nasopharynx	15	2.6	3.7	3.1	0.2	0.4	4	0.6	0.8	0.6	0.0	0.1	C11
Hypopharynx	12	2.1	2.8	2.4	0.2	0.3	1	0.2	0.3	0.2	0.0	0.0	C12-13
Pharynx unspecified	3	0.5	0.7	0.5	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C14
Esophagus	35	6.2	8.6	7.5	0.5	0.9	5	0.8	1.1	0.7	0.0	0.1	C15
Stomach	16	2.8	3.8	3.3	0.2	0.4	15	2.5	3.4	2.7	0.2	0.3	C16
Small intestine	1	0.1	0.2	0.1	0.0	0.0	1	0.2	0.2	0.2	0.0	0.0	C17
Colon	38	6.8	9.3	8.2	0.5	1.0	33	5.7	7.6	5.6	0.3	0.7	C18
Rectum	22	3.9	5.4	4.8	0.3	0.5	16	2.7	3.6	2.7	0.2	0.3	C19-20
Anus	2	0.3	0.4	0.4	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C21
Liver and bile duct	86	15.2	21.0	18.4	1.3	2.2	32	5.5	7.3	5.6	0.4	0.7	C22,C24
Gallbladder	2	0.4	0.5	0.4	0.0	0.0	3	0.6	0.8	0.6	0.0	0.1	C23
Pancreas	11	2.0	2.8	2.3	0.1	0.3	9	1.5	2.1	1.6	0.1	0.2	C25
Nose, sinuses etc.	3	0.5	0.7	0.5	0.0	0.1	1	0.2	0.2	0.2	0.0	0.0	C30-31
Larynx	18	3.1	4.3	3.8	0.2	0.5	1	0.2	0.2	0.2	0.0	0.0	C32
Trachea, Bronchus, and lung	88	15.5	21.4	18.3	0.9	2.0	39	6.6	8.8	6.6	0.4	0.8	C33-34
Other thoracic organs	2	0.4	0.6	0.5	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C37-38
Bone	3	0.5	0.7	0.7	0.0	0.1	2	0.4	0.5	0.5	0.0	0.0	C40-C41
Melanoma of skin	1	0.2	0.3	0.3	0.0	0.0	2	0.3	0.5	0.4	0.0	0.1	C43
Other skin	11	1.9	2.7	2.4	0.1	0.3	12	2.0	2.7	1.9	0.1	0.2	C44
Mesothelioma	0	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi sarcoma	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	3	0.5	0.7	0.7	0.1	0.1	4	0.7	1.0	0.9	0.1	0.1	C47,C49
Breast	0	0.1	0.1	0.1	0.0	0.0	131	22.4	30.0	23.1	1.9	2.4	C50
Vulva							1	0.2	0.3	0.3	0.0	0.0	C51
Vagina							2	0.3	0.5	0.4	0.0	0.0	C52
Cervix uteri							101	17.2	23.0	17.7	1.4	1.9	C53
Corpus uteri							17	2.9	3.9	3.0	0.2	0.4	C54
Uterus unspecified							4	0.6	0.8	0.6	0.0	0.1	C55
Ovary							28	4.8	6.4	5.1	0.4	0.5	C56
Other female genital							0	0.0	0.0	0.0	0.0	0.0	C57
Placenta							0	0.1	0.1	0.1	0.0	0.0	C58
Penis	5	0.9	1.3	1.1	0.1	0.1							C60
Prostate	22	3.9	5.4	4.7	0.2	0.5							C61
Testis	3	0.6	0.8	0.7	0.0	0.1							C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0							C63
Kidney	5	0.9	1.3	1.1	0.1	0.1	2	0.3	0.5	0.3	0.0	0.0	C64
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C65
Ureter	0	0.0	0.0	0.0	0.0	0.0	1	0.1	0.2	0.1	0.0	0.0	C66
Bladder	11	1.9	2.6	2.4	0.1	0.3	9	1.5	2.0	1.4	0.0	0.2	C67
Other urinary organs	1	0.2	0.2	0.2	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C68
Eye	1	0.2	0.3	0.3	0.0	0.0	1	0.1	0.2	0.2	0.0	0.0	C69
Brain, nervous system	11	1.9	2.7	2.5	0.1	0.3	8	1.3	1.8	1.4	0.1	0.1	C70-72
Thyroid	7	1.2	1.7	1.4	0.1	0.2	21	3.6	4.8	4.1	0.3	0.4	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	C74
Other endocrine	0	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	1	0.2	0.2	0.2	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C81
Non-Hodgkin lymphoma	25	4.5	6.2	5.5	0.4	0.6	23	4.0	5.3	3.9	0.2	0.4	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	2	0.4	0.6	0.5	0.0	0.1	3	0.5	0.6	0.4	0.0	0.1	C90
Lymphoid leukemia	7	1.2	1.7	1.9	0.1	0.1	3	0.5	0.6	0.8	0.0	0.0	C91
Myeloid leukemia	9	1.5	2.1	1.9	0.1	0.2	5	0.8	1.1	0.9	0.1	0.1	C92-94
Leukemia unspecified	6	1.1	1.5	1.3	0.1	0.1	7	1.3	1.7	1.3	0.1	0.1	C95
Other and unspecified	30	5.3	7.3	6.4	0.4	0.8	23	3.9	5.3	3.7	0.2	0.4	O&U
All sites	**567**	**100.0**	**138.1**	**121.2**	**7.5**	**13.9**	**587**	**100.0**	**134.1**	**102.9**	**7.3**	**11.0**	**ALL**

Table 3.11.4 Percentage of morphologically verified and death certificate only cases, Ratchaburi, 2008

Site	Male			Female			ICD-10
	Cases 3 Years	%MV	%DCO	Cases 3 Years	%MV	%DCO	
Oral cavity	112	67.0	6.3	46	65.2	2.2	C00-C08
Oropharynx, etc	36	69.4	13.9	2	50.0	0.0	C09-C10,C14
Nasopharynx	45	77.8	2.2	11	45.5	0.0	C11
Hypopharynx	35	88.6	0.0	4	100.0	0.0	C12-C13
Oesophagus	106	55.7	3.8	14	50.0	7.1	C15
Stomach	47	48.9	4.3	44	56.8	2.3	C16
Small intestine	2	100.0	0.0	3	0.0	0.0	C17
Colon and rectum	187	61.5	3.7	149	59.7	4.0	C18-C21
Liver and bile duct	259	20.1	15.4	96	16.7	12.5	C22,C24
Gallbladder	6	16.7	0.0	10	20.0	10.0	C23
Pancreas	34	23.5	2.9	27	25.9	0.0	C25
Nose, sinuses etc	8	50.0	0.0	3	33.3	0.0	C30-C31
Larynx	53	64.2	5.7	3	33.3	0.0	C32
Bronchus, lung	263	31.6	9.5	116	39.7	7.8	C33-C34
Other thoracic organs	7	57.1	14.3	1	100.0	0.0	C37-C38
Bone	9	33.3	22.2	7	57.1	14.3	C40-C41
Melanoma of skin	4	100.0	0.0	6	100.0	0.0	C43
Other skin	33	93.9	0.0	36	86.1	2.8	C44
Mesothelioma	1	100.0	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	9	77.8	0.0	13	76.9	0.0	C47,C49
Breast	1	0.0	0.0	394	81.5	1.0	C50
Vulva				4	100.0	0.0	C51
Vagina				6	66.7	0.0	C52
Cervix uteri				302	77.2	1.7	C53
Corpus uteri				51	88.2	0.0	C54
Uterus unspecified				11	36.4	36.4	C55
Ovary				84	58.3	1.2	C56
Other female genital				0	0.0	0.0	C57
Placenta				1	100.0	0.0	C58
Penis	16	81.3	0.0				C60
Prostate	66	51.5	3.0				C61
Testis	10	80.0	0.0				C62
Other male genital organs	0	0.0	0.0				C63
Kidney	16	68.8	6.3	6	50.0	16.7	C64
Renal pelvis	0	0.0	0.0	2	50.0	0.0	C65
Ureter	0	0.0	0.0	2	50.0	0.0	C66
Bladder	32	50.0	0.0	26	50.0	3.8	C67
Other urinary organs	3	0.0	66.7	0	0.0	0.0	C68
Eye	4	25.0	0.0	2	100.0	0.0	C69
Brain, nervous system	33	42.4	24.2	23	39.1	8.7	C70-72
Thyroid	21	66.7	4.8	63	65.1	1.6	C73
Adrenal gland	0	0.0	0.0	0	0.0	0.0	C74
Other endocrine	1	0.0	0.0	0	0.0	0.0	C75
Hodgkin's disease	3	100.0	0.0	1	100.0	0.0	C81
Non-Hodgkin lymph	76	96.1	3.9	70	97.1	2.9	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	7	100.0	0.0	8	100.0	0.0	C90
Leukemia	65	95.4	4.6	44	88.6	11.4	C91-C95
Other and unspecified	90	35.6	15.6	69	23.2	24.6	O&U
All site	**1,700**	**52.1**	**7.8**	**1,760**	**65.3**	**4.3**	**ALL**

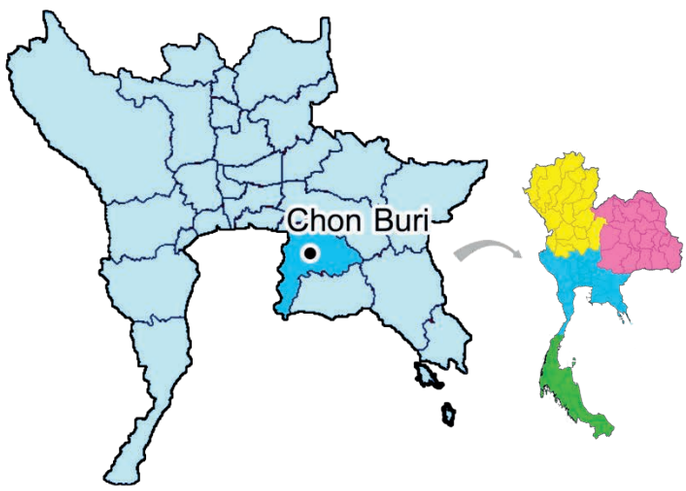
Chon Buri Cancer Registry

Registration area

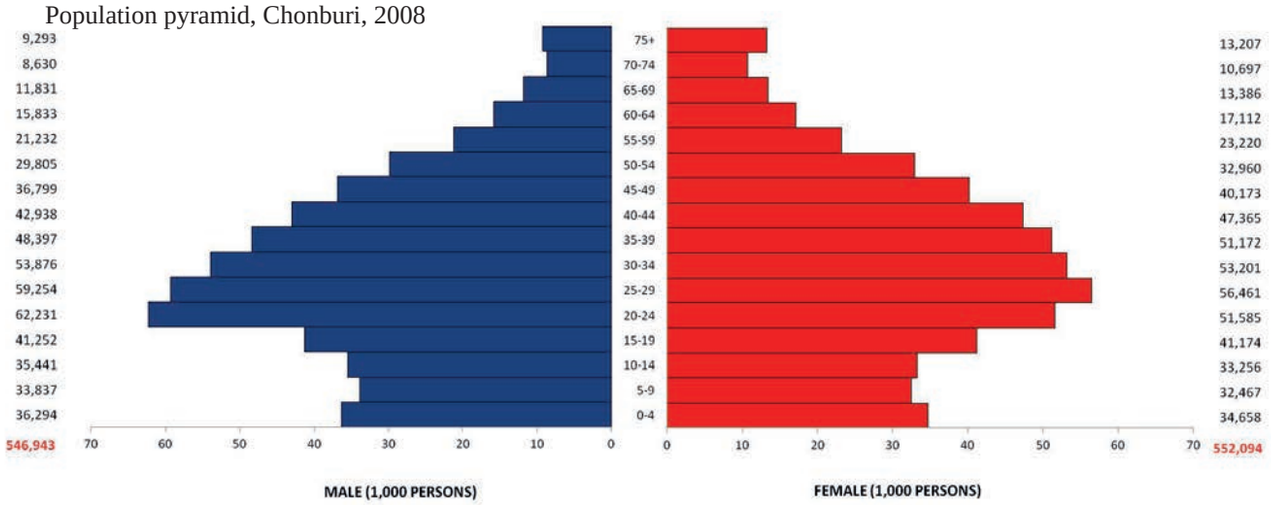
Chon Buri is situated in the eastern part of Thailand, between 12-13°N and 100-102° E, 80 kilometers from Bangkok by car or bus and train, with land area 4,363 square kilometers and is bounded in the north by Chachoengsao, in the east by Chanthaburi, in the south by Rayong and in the west by the bank of Gulf of Thailand. The districts of Chon Buri were: Muang Chonburi, Sri Racha, Ban Bung, Nong Yai, Bang Lamung, Sattahip, Phan Thong, Phanat Nikhom, Bo Thong, Ko Sichang and subdistrict 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 °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 si chang, Pattaya.



Population pyramid, Chonburi, 2008



Cancer care facilities

The total number of hospitals in Chonburi province was 26 hospitals composed of 12 community hospitals, 9 private hospitals and 1 provincial hospital, 3 military hospitals and university hospital providing 4745 total beds. Cancer diagnostic services including radiological diagnosis equipment such as: X-ray, ultrasound, computed radiography, mammogram, CT scan and pathological investigations are available in Chonburi provincial hospital, private hospitals and Chonburi cancer hospital. MRI is available only in Smitivej Sriracha Hospital. Cancer treatment, radiotherapy equipments: one simulator, cobalt-60 machine, linear accelerator and remote after-loading devices for brachytherapy are available at the Chonburi cancer hospital. Cancer surgery and cancer chemotherapy service are provided in Chonburi 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 Chonburi. 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.

Summary of results

New cases registered in 2008, 993 were males and 1,166 were females this made up of 2,159 for both sex. The age - standardized incidence rate (ASR) of all cancer in males is 199.2 per 100,000 in which lung cancer ranks first (ASR = 42.8) followed by liver and bile duct (ASR =27.8) colon and rectum (ASR =21.6). ASR of all cancer in females is 190.4 ; three leading cancer in females are breast (ASR = 44.2) and cervix (ASR =26.8), lung (ASR =18.4).

Figure 3.12 Leading cancer in Chonburi, 2008

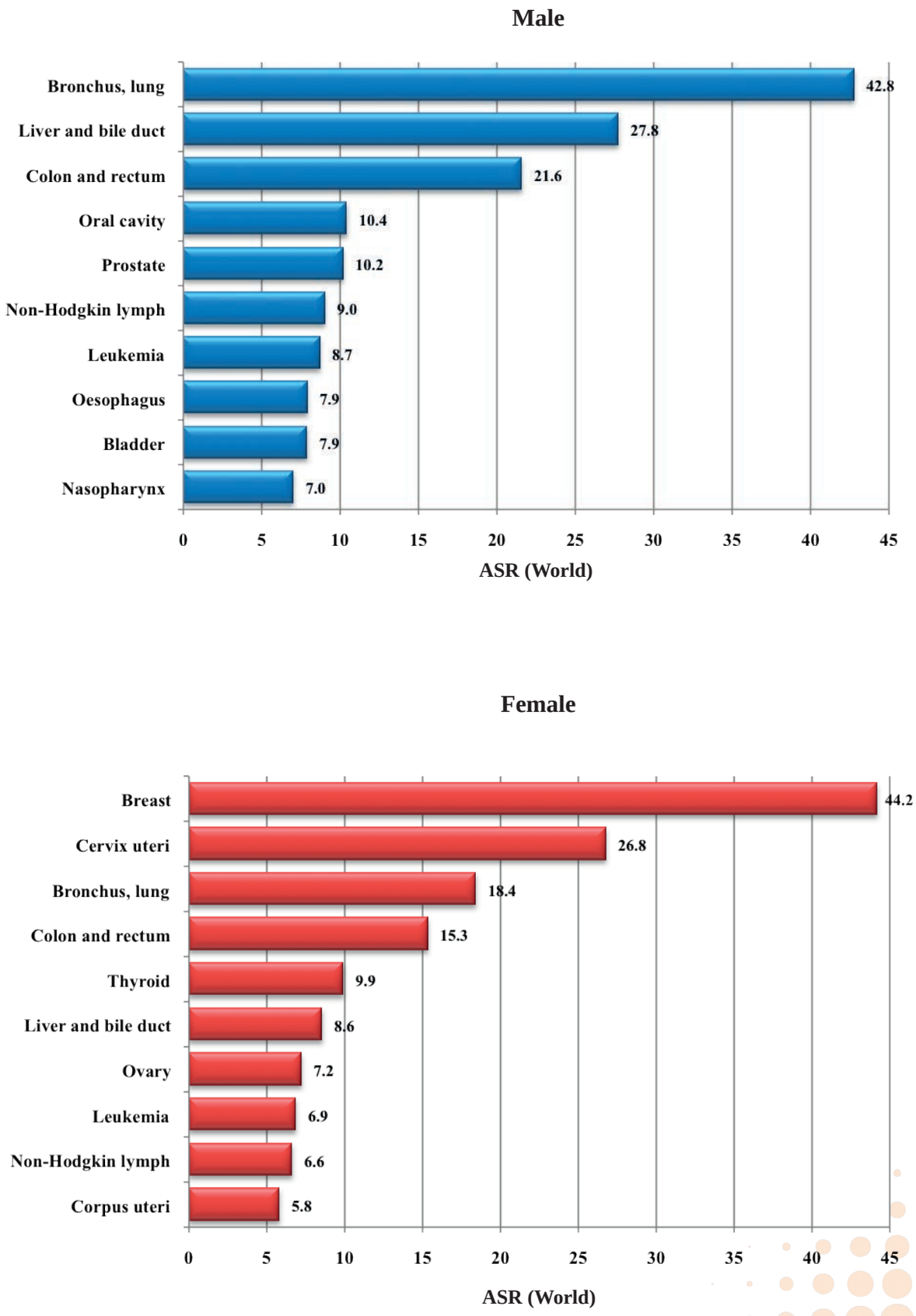


Table 3.12.1 Chonburi (2008), Annual Incidence per 100,000 by Age Group (years) - Male

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	0.7	0.0	0.0	2.2	0.0	2.1	0.0	0.0	0.0	0.2	0.2	C00
Tongue	23	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.4	3.1	8.2	12.3	15.7	16.8	28.2	27.0	21.5	4.2	4.6	C01-02
Mouth	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.6	6.3	7.8	22.0	25.3	22.5	23.2	46.6	4.3	4.9	C03-06
Salivary glands	5	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.7	0.8	3.6	3.4	1.6	0.0	2.8	0.0	3.6	0.9	0.8	C07-08
Tonsil	8	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.4	2.3	1.8	6.7	3.1	4.2	5.6	11.6	7.2	1.5	1.5	C09
Other oropharynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.9	1.1	0.0	0.0	0.0	7.7	0.0	0.4	0.4	C10
Nasopharynx	40	0.0	0.0	0.9	0.8	1.1	3.4	1.9	9.6	10.1	12.7	15.7	36.1	23.2	14.1	15.4	28.7	7.3	7.0	C11
Hypopharynx	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.5	6.7	4.7	10.5	16.9	15.4	14.3	2.1	2.4	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	2.2	0.0	0.0	2.8	3.9	3.6	0.3	0.3	C14
Esophagus	38	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.4	6.2	8.2	17.9	26.7	50.5	47.9	46.3	28.7	6.9	7.9	C15
Stomach	25	0.0	0.0	0.0	0.0	0.0	0.0	1.9	2.1	1.6	11.8	7.8	15.7	14.7	28.2	30.9	46.6	4.6	5.0	C16
Small intestine	3	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.8	0.9	0.0	0.0	4.2	2.8	3.9	7.2	0.5	0.6	C17
Colon	65	0.0	0.0	0.0	0.0	1.1	3.4	4.9	3.4	7.8	6.3	22.4	40.8	35.8	73.3	77.2	172.2	11.9	13.1	C18
Rectum	41	0.0	0.0	0.0	0.0	0.0	0.6	0.0	2.1	6.2	11.8	15.7	26.7	37.9	45.1	50.2	68.2	7.4	8.3	C19-20
Anus	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.1	0.0	0.0	0.0	3.9	0.0	0.2	0.2	C21
Liver and bile duct	144	0.0	1.0	0.0	0.0	0.0	1.1	4.3	15.2	32.6	42.6	81.6	113.0	111.6	129.6	88.8	157.8	26.3	27.8	C22,C24
Gallbladder	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.6	2.1	2.8	0.0	0.0	0.2	0.3	C23
Pancreas	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.3	2.7	2.2	6.3	10.5	8.5	27.0	21.5	2.1	2.4	C25
Nose, sinuses etc.	5	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	1.6	0.0	1.1	3.1	4.2	14.1	3.9	0.0	0.9	1.0	C30-31
Larynx	21	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.7	0.8	5.4	6.7	11.0	23.2	22.5	34.8	43.0	3.8	4.4	C32
Trachea, Bronchus, and lung	205	0.0	0.0	0.0	0.8	0.0	2.3	2.5	7.6	21.0	38.0	77.2	139.7	162.1	228.2	336.0	444.8	37.5	42.8	C33-34
Other thoracic organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.0	0.0	1.1	0.0	2.1	0.0	0.0	0.0	0.2	0.2	C37-38
Bone	4	0.9	0.0	0.0	1.6	0.5	0.6	0.6	1.4	1.6	1.8	0.0	1.6	0.0	0.0	0.0	0.0	0.8	0.7	C40-C41
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	1.1	1.6	0.0	0.0	3.9	7.2	0.4	0.4	C43
Other skin	29	0.0	0.0	0.0	0.0	0.5	0.0	1.9	2.8	0.8	1.8	5.6	11.0	14.7	25.4	57.9	114.8	5.2	6.0	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	3.6	0.1	0.1	C45
Kaposi sarcoma	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	0.0	0.0	0.0	0.1	0.0	C46
Connective tissue	11	1.8	0.0	0.9	0.8	0.5	0.0	2.5	0.7	0.8	2.7	2.2	4.7	12.6	14.1	3.9	7.2	2.0	2.3	C47,C49
Breast	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.1	2.1	0.0	0.0	7.2	0.4	0.4	C50
Penis	11	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.7	1.6	3.6	0.0	4.7	14.7	11.3	11.6	21.5	2.0	2.2	C60
Prostate	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.9	6.7	9.4	40.0	56.3	108.1	197.3	8.3	10.2	C61
Testis	12	1.8	0.0	0.9	3.2	2.1	2.8	3.7	1.4	3.1	3.6	1.1	0.0	4.2	2.8	0.0	0.0	2.2	2.0	C62
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
Kidney	7	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.4	0.8	0.9	0.0	9.4	4.2	2.8	19.3	3.6	1.3	1.4	C64
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	1.6	0.0	0.0	0.0	0.0	0.2	0.2	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	2.1	2.8	0.0	0.0	0.1	0.2	C66
Bladder	37	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.4	3.1	8.2	7.8	17.3	31.6	36.6	54.1	129.1	6.8	7.9	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	1	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.1	0.1	C69
Brain, nervous system	13	0.9	2.0	2.8	0.8	1.6	2.8	1.9	2.8	0.0	2.7	1.1	4.7	4.2	8.5	15.4	3.6	2.4	2.5	C70-72
Thyroid	12	0.0	0.0	0.0	0.0	3.2	1.1	1.9	1.4	4.7	1.8	6.7	0.0	2.1	11.3	3.9	7.2	2.1	1.9	C73
Adrenal gland	1	0.9	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.8	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.2	0.3	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	4	0.0	1.0	0.9	0.0	0.0	1.7	0.0	0.7	0.8	0.0	0.0	1.6	4.2	0.0	3.9	3.6	0.7	0.8	C81
Non-Hodgkin lymphoma	50	1.8	3.0	1.9	4.8	3.7	4.5	9.3	9.6	12.4	7.2	19.0	17.3	23.2	39.4	27.0	32.3	9.1	9.0	C82-85,C96
Immunoproliferative diseases	1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C88
Multiple myeloma	5	0.0	0.0	0.0	0.8	0.0	0.6	0.0	0.7	0.0	0.0	1.1	4.7	10.5	2.8	3.9	7.2	1.0	1.1	C90
Lymphoid leukemia	9	7.3	3.9	0.0	0.0	1.1	1.1	1.2	0.7	1.6	0.9	0.0	4.7	4.2	0.0	0.0	3.6	1.7	2.1	C91
Myeloid leukemia	24	3.7	1.0	0.9	1.6	4.8	2.3	2.5	2.1	6.2	1.8	6.7	6.3	12.6	16.9	27.0	21.5	4.4	4.7	C92-94
Leukemia unspecified	8	5.5	1.0	0.9	0.0	0.5	0.6	0.0	0.0	0.8	0.9	3.4	4.7	2.1	2.8	3.9	14.3	1.5	1.9	C95
Other and unspecified	24	0.9	0.0	0.0	0.8	1.6	0.6	1.9	1.4	4.7	6.3	10.1	12.6	12.6	14.1	27.0	43.0	4.3	4.5	O&U
All sites	**993**	**25.7**	**12.8**	**10.3**	**16.2**	**22.5**	**33.2**	**51.4**	**80.6**	**144.4**	**214.7**	**366.8**	**588.7**	**745.3**	**943.8**	**1181.9**	**1743.2**	**181.6**	**199.2**	**ALL**

Table 3.12.2 Chonburi (2008), Annual Incidence per 100,000 by Age Group (years) – 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	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0	1.4	0.0	2.5	9.3	25.2	1.1	1.0	C00
Tongue	8	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.7	2.8	0.0	3.0	4.3	3.9	7.5	9.3	7.6	1.4	1.3	C01-02
Mouth	10	0.0	0.0	0.0	0.0	0.6	0.0	0.0	1.3	0.7	0.8	1.0	4.3	3.9	7.5	12.5	32.8	1.9	1.7	C03-06
Salivary glands	6	0.0	0.0	0.0	0.0	0.6	1.2	1.3	2.0	0.7	2.5	2.0	0.0	0.0	2.5	3.1	5.0	1.1	0.9	C07-08
Tonsil	3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.7	1.7	1.0	1.4	0.0	0.0	3.1	2.5	0.5	0.4	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	1.4	0.0	0.0	0.0	0.0	0.1	0.1	C10
Nasopharynx	13	0.0	0.0	0.0	0.8	0.0	0.6	0.6	5.2	3.5	3.3	3.0	11.5	5.8	2.5	3.1	7.6	2.4	2.0	C11
Hypopharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.4	0.0	0.0	0.0	0.0	0.1	0.1	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
Esophagus	8	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.7	0.7	0.8	1.0	5.7	7.8	5.0	6.2	20.2	1.5	1.4	C15
Stomach	27	0.0	0.0	0.0	0.0	0.0	1.2	0.0	4.6	6.3	6.6	10.1	14.4	7.8	22.4	24.9	32.8	4.8	4.4	C16
Small intestine	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	3.9	0.0	6.2	5.0	0.5	0.5	C17
Colon	58	0.0	0.0	0.0	0.0	0.6	1.2	5.0	3.3	4.2	11.6	17.2	23.0	40.9	49.8	68.6	108.5	10.6	10.0	C18
Rectum	30	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6	6.3	7.5	9.1	18.7	13.6	22.4	24.9	53.0	5.5	5.0	C19-20
Anus	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	3.9	0.0	3.1	0.0	0.2	0.3	C21
Liver and bile duct	48	0.0	0.0	0.0	0.0	0.0	0.6	2.5	1.3	6.3	10.8	11.1	28.7	42.9	54.8	46.7	63.1	8.7	8.6	C22,C24
Gallbladder	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	2.9	1.9	2.5	6.2	2.5	0.5	0.5	C23
Pancreas	13	0.0	0.0	0.0	0.8	0.0	0.0	1.3	1.3	0.7	2.5	4.0	5.7	1.9	12.5	21.8	25.2	2.4	2.2	C25
Nose, sinuses etc.	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.5	3.0	1.4	1.9	0.0	6.2	2.5	0.7	0.7	C30-31
Larynx	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.0	1.4	0.0	2.5	0.0	10.1	0.5	0.4	C32
Trachea, Bronchus, and lung	106	0.0	0.0	0.0	0.0	1.3	1.2	2.5	4.6	8.4	21.6	28.3	40.2	60.4	112.1	140.2	219.6	19.1	18.4	C33-34
Other thoracic organs	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C37-38
Bone	4	0.0	0.0	2.0	0.8	0.0	0.6	0.0	0.7	1.4	0.8	0.0	0.0	3.9	0.0	0.0	5.0	0.7	0.7	C40-C41
Melanoma of skin	4	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.0	0.8	3.0	1.4	0.0	0.0	15.6	2.5	0.8	0.7	C43
Other skin	34	0.0	0.0	0.0	0.8	1.3	3.0	2.5	2.0	0.0	5.8	4.0	12.9	19.5	19.9	46.7	85.8	6.2	5.8	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 sarcoma	1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C46
Connective tissue	11	0.0	1.0	1.0	0.0	1.9	2.4	1.3	1.3	2.1	1.7	6.1	2.9	1.9	5.0	3.1	5.0	1.9	1.7	C47,C49
Breast	287	0.0	0.0	0.0	0.8	1.9	3.0	27.6	59.3	99.9	146.0	136.5	139.2	109.1	102.1	102.8	93.4	52.0	44.2	C50
Vulva	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.8	1.0	1.4	3.9	0.0	6.2	5.0	0.6	0.6	C51
Vagina	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.8	0.0	0.0	0.0	0.0	3.1	5.0	0.4	0.3	C52
Cervix uteri	173	0.0	0.0	0.0	0.0	1.9	4.1	16.9	40.4	54.9	78.0	76.9	86.1	54.5	82.2	96.6	50.5	31.3	26.8	C53
Corpus uteri	34	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.7	8.4	11.6	20.2	30.1	21.4	34.9	6.2	12.6	6.2	5.8	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	45	0.0	0.0	2.0	2.4	3.9	4.1	3.8	8.5	10.6	18.3	14.2	27.3	15.6	19.9	15.6	20.2	8.2	7.2	C56
Other female genital	2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.8	2.0	1.4	0.0	0.0	0.0	0.0	0.3	0.2	C57
Placenta	2	0.0	0.0	0.0	0.0	2.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	C58
Kidney	5	1.0	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.8	0.0	2.9	7.8	0.0	3.1	10.1	0.9	1.0	C64
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	2.5	0.0	0.0	0.1	0.1	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	0.0	0.0	3.1	2.5	0.1	0.1	C66
Bladder	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.7	3.0	0.0	7.8	12.5	9.3	15.1	1.4	1.5	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	1	1.9	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	0.0	0.2	0.3	C69
Brain, nervous system	15	1.0	1.0	1.0	0.8	1.9	1.2	2.5	3.3	4.2	5.0	2.0	4.3	5.8	12.5	3.1	5.0	2.8	2.6	C70-72
Thyroid	67	0.0	1.0	0.0	4.0	8.4	20.7	16.3	16.3	12.7	10.0	15.2	25.8	9.7	19.9	21.8	30.3	12.1	9.9	C73
Adrenal gland	1	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	0.0	0.0	0.1	0.1	C74
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	C75
Hodgkin disease	2	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.0	1.4	0.0	1.0	0.0	0.0	0.0	0.0	2.5	0.4	0.3	C81
Non-Hodgkin lymphoma	39	1.0	2.1	5.0	1.6	4.5	4.1	4.4	3.3	8.4	10.8	12.1	7.2	17.5	14.9	28.0	40.4	7.1	6.6	C82-85,C96
Immunoproliferative diseases	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	0.0	0.1	0.1	C88
Multiple myeloma	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.0	7.2	7.8	7.5	12.5	15.1	1.6	1.6	C90
Lymphoid leukemia	10	11.5	2.1	3.0	0.8	1.3	0.0	1.9	0.7	0.7	0.0	1.0	2.9	1.9	2.5	0.0	0.0	1.8	2.5	C91
Myeloid leukemia	19	1.9	0.0	2.0	4.0	1.9	1.2	3.1	4.6	2.1	1.7	5.1	7.2	3.9	5.0	15.6	20.2	3.5	3.3	C92-94
Leukemia unspecified	6	1.9	0.0	0.0	0.0	1.3	0.0	1.3	0.7	1.4	1.7	2.0	1.4	1.9	0.0	6.2	2.5	1.1	1.0	C95
Other and unspecified	28	0.0	0.0	1.0	0.0	0.0	2.4	1.9	2.6	3.5	9.1	6.1	4.3	13.6	34.9	31.2	42.9	5.1	4.9	O&U
All sites	**1,166**	**20.2**	**7.2**	**19.0**	**17.8**	**37.5**	**56.1**	**101.5**	**174.6**	**256.9**	**386.7**	**412.6**	**535.5**	**508.4**	**682.3**	**825.8**	**1095.4**	**211.2**	**190.4**	**ALL**

Table 3.12.3 Annual incidence, Chonburi, 2008

Site	Male						Female						ICD-10
	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	
Lip	1	0.1	0.2	0.2	0.0	0.0	6	0.5	1.1	1.0	0.0	0.1	C00
Tongue	23	2.3	4.2	4.6	0.3	0.6	8	0.7	1.4	1.3	0.1	0.2	C01-02
Mouth	23	2.3	4.3	4.9	0.3	0.5	10	0.9	1.9	1.7	0.1	0.2	C03-06
Salivary gland	5	0.5	0.9	0.8	0.1	0.1	6	0.5	1.1	0.9	0.1	0.1	C07-08
Tonsil	8	0.8	1.5	1.5	0.1	0.2	3	0.2	0.5	0.4	0.0	0.0	C09
Other oropharynx	2	0.2	0.4	0.4	0.0	0.1	0	0.0	0.1	0.1	0.0	0.0	C10
Nasopharynx	40	4.0	7.3	7.0	0.6	0.7	13	1.1	2.4	2.0	0.2	0.2	C11
Hypopharynx	11	1.1	2.1	2.4	0.1	0.3	1	0.1	0.1	0.1	0.0	0.0	C12-13
Pharynx unspecified	2	0.2	0.3	0.3	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C14
Oesophagus	38	3.8	6.9	7.9	0.6	1.0	8	0.7	1.5	1.4	0.1	0.1	C15
Stomach	25	2.6	4.6	5.0	0.3	0.6	27	2.3	4.8	4.4	0.3	0.5	C16
Small intestine	3	0.3	0.5	0.6	0.0	0.1	3	0.2	0.5	0.5	0.0	0.1	C17
Colon	65	6.5	11.9	13.1	0.6	1.4	58	5.0	10.6	10.0	0.5	1.1	C18
Rectum	41	4.1	7.4	8.3	0.5	1.0	30	2.6	5.5	5.0	0.3	0.5	C19-20
Anus	1	0.1	0.2	0.2	0.0	0.0	1	0.1	0.2	0.3	0.0	0.0	C21
Liver and bile duct	144	14.5	26.3	27.8	2.0	3.1	48	4.1	8.7	8.6	0.5	1.0	C22,C24
Gallbladder	1	0.1	0.2	0.3	0.0	0.0	3	0.3	0.5	0.5	0.0	0.1	C23
Pancreas	11	1.1	2.1	2.4	0.1	0.3	13	1.1	2.4	2.2	0.1	0.3	C25
Nose, sinuses etc	5	0.5	0.9	1.0	0.1	0.1	4	0.3	0.7	0.7	0.0	0.1	C30-31
Larynx	21	2.1	3.8	4.4	0.2	0.5	3	0.2	0.5	0.4	0.0	0.0	C32
Bronchus, lung	205	20.7	37.5	42.8	2.3	5.1	106	9.1	19.1	18.4	0.8	2.1	C33-34
Other thoracic organs	1	0.1	0.2	0.2	0.0	0.0	1	0.1	0.2	0.2	0.0	0.0	C37-38
Bone	4	0.4	0.8	0.7	0.1	0.1	4	0.3	0.7	0.7	0.1	0.1	C40-C41
Melanoma of skin	2	0.2	0.4	0.4	0.0	0.0	4	0.4	0.8	0.7	0.0	0.1	C43
Other skin	29	2.9	5.2	6.0	0.2	0.6	34	2.9	6.2	5.8	0.3	0.6	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 sarcoma	0	0.0	0.1	0.0	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C46
Connective and soft tissue	11	1.1	2.0	2.3	0.2	0.2	11	0.9	1.9	1.7	0.1	0.2	C47,C49
Breast	2	0.2	0.4	0.4	0.0	0.0	287	24.6	52.0	44.2	3.6	4.6	C50
Vulva							3	0.3	0.6	0.6	0.0	0.1	C51
Vagina							2	0.2	0.4	0.3	0.0	0.0	C52
Cervix uteri							173	14.8	31.3	26.8	2.1	3.0	C53
Corpus uteri							34	2.9	6.2	5.8	0.5	0.7	C54
Uterus unspecified							0	0.0	0.0	0.0	0.0	0.0	C55
Ovary							45	3.9	8.2	7.2	0.6	0.7	C56
Other female genital							2	0.1	0.3	0.2	0.0	0.0	C57
Placenta							2	0.1	0.3	0.3	0.0	0.0	C58
Penis	11	1.1	2.0	2.2	0.1	0.2							C60
Prostate	45	4.6	8.3	10.2	0.3	1.1							C61
Testis	12	1.2	2.2	2.0	0.1	0.2							C62
Other male genital organs	0	0.0	0.1	0.0	0.0	0.0							C63
Kidney	7	0.7	1.3	1.4	0.1	0.2	5	0.4	0.9	1.0	0.1	0.1	C64
Renal pelvis	1	0.1	0.2	0.2	0.0	0.0	0	0.0	0.1	0.1	0.0	0.0	C65
Ureter	1	0.1	0.1	0.2	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C66
Bladder	37	3.8	6.8	7.9	0.3	0.8	8	0.7	1.4	1.5	0.1	0.2	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	0.1	0.0	0.0	1	0.1	0.2	0.3	0.0	0.0	C69
Brain, nervous system	13	1.3	2.4	2.5	0.1	0.3	15	1.3	2.8	2.6	0.2	0.2	C70-72
Thyroid	12	1.2	2.1	1.9	0.1	0.2	67	5.7	12.1	9.9	0.7	0.9	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	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	C75
Hodgkin's disease	4	0.4	0.7	0.8	0.1	0.1	2	0.2	0.4	0.3	0.0	0.0	C81
Non-Hodgkin lymph	50	5.0	9.1	9.0	0.6	0.9	39	3.4	7.1	6.6	0.4	0.6	C82-85,C96
Immunoproliferative diseases	1	0.1	0.1	0.1	0.0	0.0	0	0.0	0.1	0.1	0.0	0.0	C88
Multiple myeloma	5	0.5	1.0	1.1	0.1	0.1	9	0.7	1.6	1.6	0.1	0.2	C90
Lymphoid leukaemia	9	0.9	1.7	2.1	0.1	0.1	10	0.9	1.8	2.5	0.1	0.2	C91
Myeloid leukaemia	24	2.4	4.4	4.7	0.3	0.5	19	1.7	3.5	3.3	0.2	0.3	C92-94
Leukemia unspecified	8	0.8	1.5	1.9	0.1	0.1	6	0.5	1.1	1.0	0.1	0.1	C95
Other and unspecified	24	2.4	4.3	4.5	0.3	0.5	28	2.4	5.1	4.9	0.2	0.6	O&U
All sites	**993**	**100.0**	**181.6**	**199.2**	**11.6**	**22.2**	**1,166**	**100.0**	**211.2**	**190.4**	**12.7**	**20.2**	**ALL**

Table 3.12.4 Percentage of morphologically verified and death certificate only cases, Chonburi, 2008

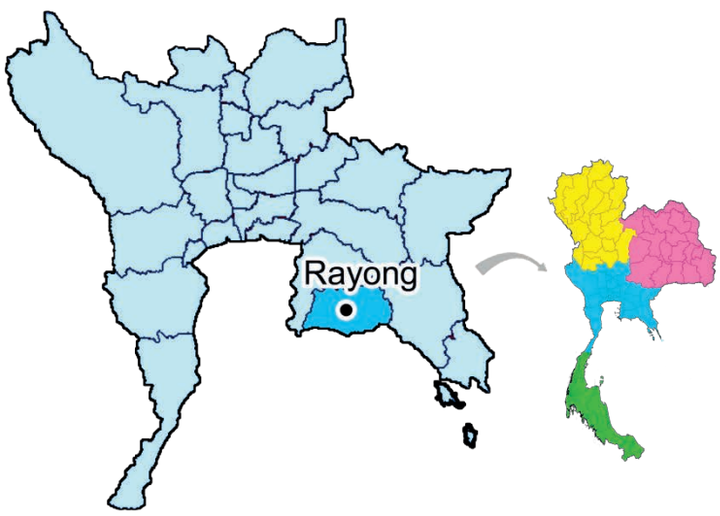
Site	Male			Female			ICD-10
	Case 3 Years	%MV	%DCO	Case 3 Years	%MV	%DCO	
Oral cavity	157	95.5	0.6	90	91.1	2.2	C00-C08
Oropharynx, etc	36	94.4	0.0	9	100.0	0.0	C09-C10,C14
Nasopharynx	119	96.6	0.0	39	94.9	0.0	C11
Hypopharynx	34	100.0	0.0	2	100.0	0.0	C12-C13
Oesophagus	114	85.1	2.6	25	72.0	4.0	C15
Stomach	76	82.9	2.6	80	82.5	10.0	C16
Small intestine	9	100.0	0.0	8	100.0	0.0	C17
Colon and rectum	320	89.1	1.3	270	89.6	1.9	C18-C21
Liver and bile duct	432	21.3	13.0	144	24.3	14.6	C22,C24
Gallbladder	4	25.0	50.0	9	33.3	0.0	C23
Pancreas	34	32.4	20.6	40	47.5	5.0	C25
Nose, sinuses etc	15	100.0	0.0	12	100.0	0.0	C30-C31
Larynx	63	95.2	0.0	8	87.5	0.0	C32
Bronchus, lung	616	67.5	4.5	317	68.8	1.6	C33-C34
Other thoracic organs	4	100.0	0.0	3	66.7	0.0	C37-C38
Bone	13	69.2	7.7	12	83.3	8.3	C40-C41
Melanoma of skin	6	100.0	0.0	13	100.0	0.0	C43
Other skin	86	96.5	0.0	102	100.0	0.0	C44
Mesothelioma	1	100.0	0.0	0	0.0	0.0	C45
Kaposi sarcoma	1	100.0	0.0	2	100.0	0.0	C46
Connective and soft tissue	33	100.0	0.0	32	100.0	0.0	C47,C49
Breast	6	100.0	0.0	861	94.2	1.2	C50
Vulva				10	100.0	0.0	C51
Vagina				6	83.3	16.7	C52
Cervix uteri				519	94.0	0.4	C53
Corpus uteri				102	96.1	0.0	C54
Uterus unspecified				0	0.0	0.0	C55
Ovary				136	84.6	2.2	C56
Other female genital				5	80.0	0.0	C57
Placenta				5	100.0	0.0	C58
Penis	32	90.6	0.0				C60
Prostate	136	75.0	2.9				C61
Testis	36	94.4	0.0				C62
Other male genital organs	1	100.0	0.0				C63
Kidney	22	90.9	0.0	15	60.0	6.7	C64
Renal pelvis	3	100.0	0.0	1	100.0	0.0	C65
Ureter	2	50.0	0.0	2	100.0	0.0	C66
Bladder	112	87.5	0.9	24	87.5	8.3	C67
Other urinary organs	0	0.0	0.0	0	0.0	0.0	C68
Eye	2	100.0	0.0	3	66.7	0.0	C69
Brain, nervous system	39	61.5	10.3	46	69.6	6.5	C70-72
Thyroid	35	100.0	0.0	200	98.5	0.5	C73
Adrenal gland	4	100.0	0.0	2	100.0	0.0	C74
Other endocrine	0	0.0	0.0	1	100.0	0.0	C75
Hodgkin's disease	12	100.0	0.0	7	100.0	0.0	C81
Non-Hodgkin lymph	150	100.0	0.0	118	100.0	0.0	C82-85,C96
Immunoproliferative diseases	2	100.0	0.0	1	100.0	0.0	C88
Multiple myeloma	16	100.0	0.0	26	100.0	0.0	C90
Leukemia	126	100.0	0.0	106	100.0	0.0	C91-C95
Other and unspecified	71	23.9	19.7	85	24.7	23.5	O&U
All site	**2,980**	**73.9**	**4.3**	**3,498**	**85.8**	**2.5**	**ALL**

Rayong Cancer Registry

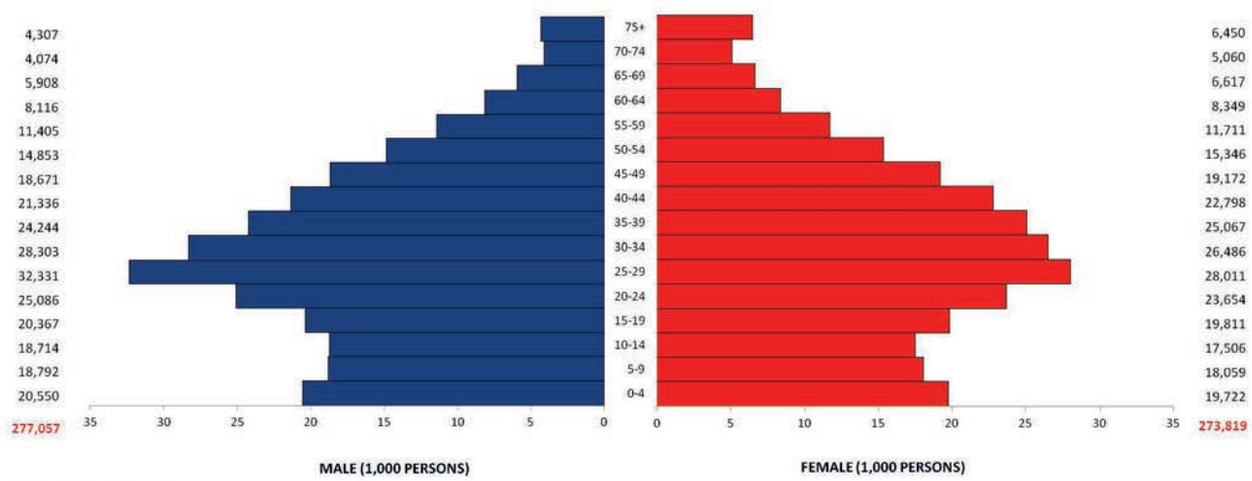
Registration area

Rayong is situated between 12-13°N and 101-102°E, with land area 3552 square kilometers, 5 meters above sea level and is bounded on the North and the West by Chonburi, on the East by Chanthaburi and the Golf of Thailand on the South. 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 districts of Rayong were: Muang Rayong, Klaeng, Ban Chang, Wang Chan, Ban Khai, Pluak Daeng and Khao Chamao, Nikhom Phatthana subdistricts.

The climate is rather warm, the highest temperature about 38.7°C in summer from March to May, 17.8°C in winter from November to February, rainy season started from May to October. The average total rainfall is 3509.4 millimeters per year. The most important occupations are farming of vegetables and fruits, fishing and shrimp farming. The Map Ta Phut Industrial Estate is situated in Muang Rayong since 1981 composed of 1663 factories and 121568 workers.



Population pyramid, Rayong, 2008



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, providing 1225 total beds. The medical personals composed of 191 registered medical practitioners, 38 dentists, 76 pharmacists and 1117 nurses. The population to doctor ratio was 2722:1.

Cancer diagnostic services including radiological diagnosis equipment such as: X-ray, ultrasound, mammography, CT and pathological investigation are available in Rayong provincial hospital and private hospital. MRI is available only in Bangkok Rayong hospital. Cancer surgery services and cancer chemotherapy are provided in Rayong provincial hospital and private Hospital. Most of the cancer patients were referred to Chonburi cancer Hospital for radiotherapy.

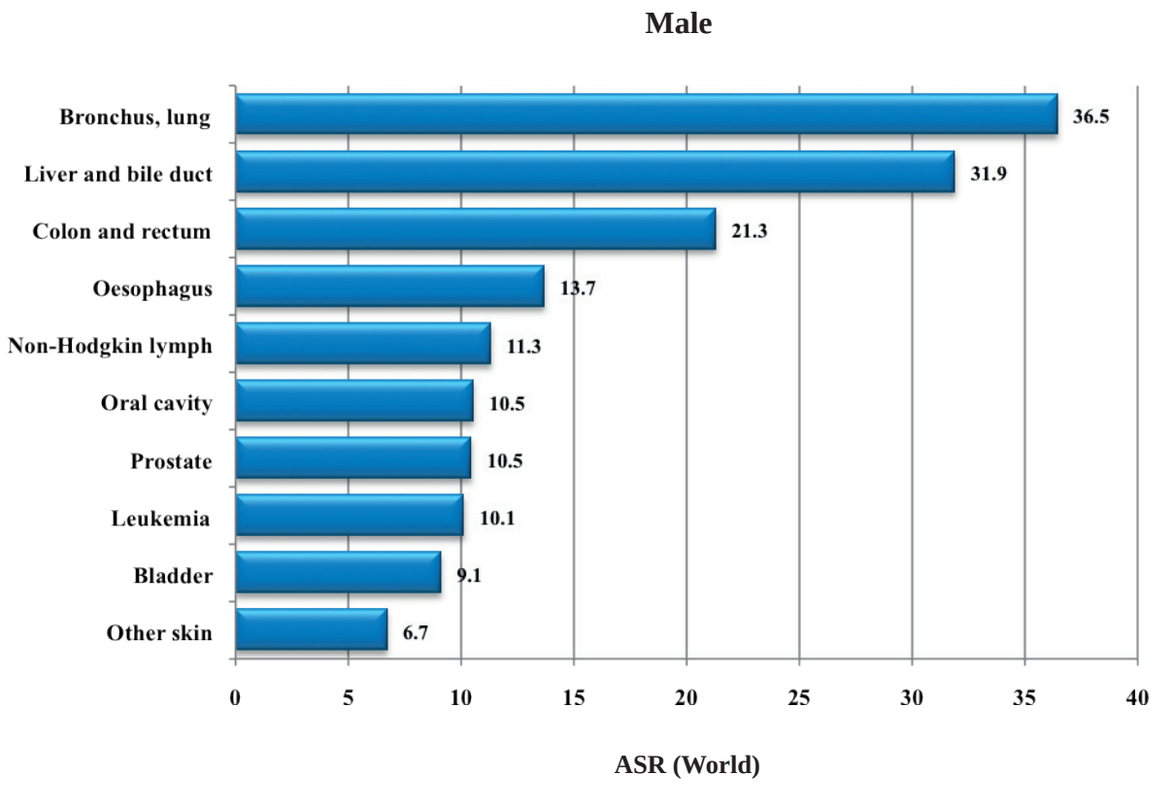
Registry procedures

All data on cancer patients were collected by mixture of passive and active methods involving notification by the staff of all hospital in Rayong. New cancer cases were collected from out and in patient departments, wards, radiotherapy unit, surgery unit, cytology unit, hematology unit, medical record and pathological unit. 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.

Summary of results

New cases registered in 2008, 515 were males and 527 were females this made up of 1,042 for both sex. The age - standardized incidence rate (ASR) of all cancer in males is 210.1 per 100,000 in which lung cancer ranks first (ASR = 36.5) followed by liver and bile duct (ASR =31.9) colon and rectum (ASR =21.3). ASR of all cancer in females is 177.2 ; three leading cancer in females are breast (ASR = 37.6) and cervix (ASR =26.1), colon and rectum (ASR =13.8).

Figure 3.13 Leading cancer in Rayong, 2008



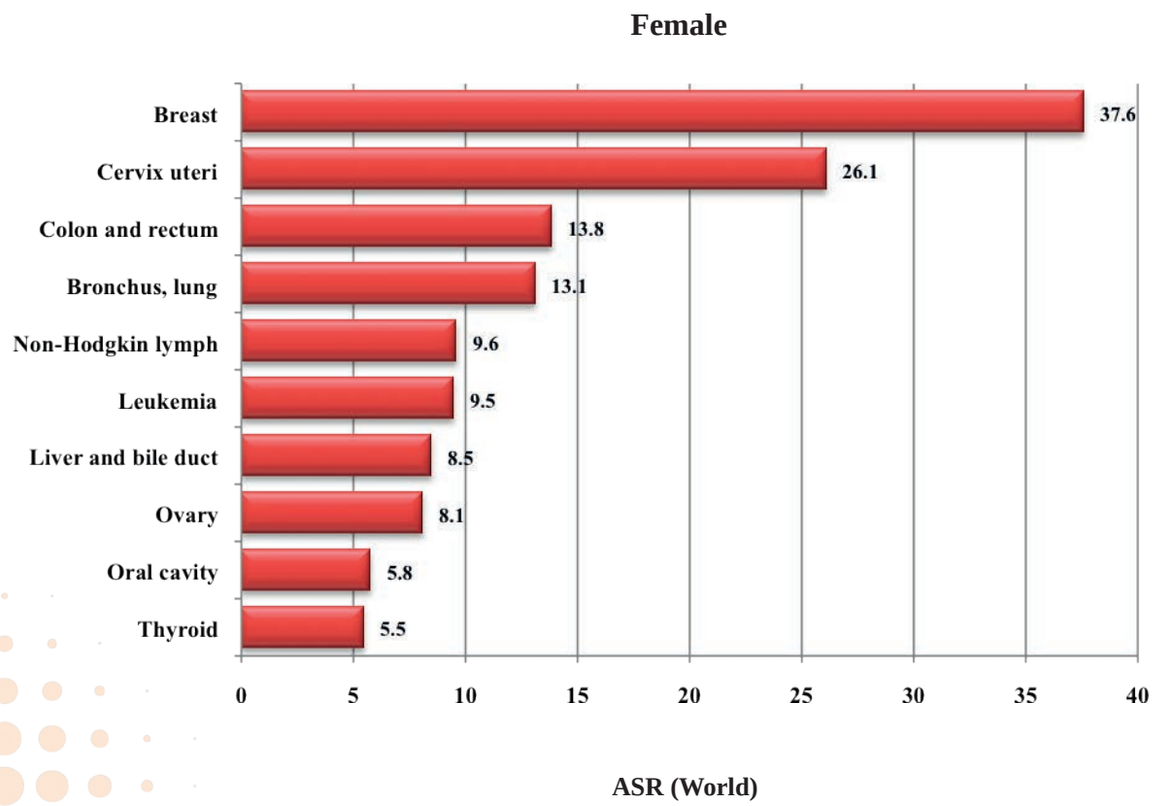


Table 3.13.1 Rayong (2008), Annual Incidence per 100,000 by Age Group (years) - Male

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	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	0.2	0.2	C00
Tongue	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	6.2	7.1	15.7	11.7	28.7	16.9	24.5	69.7	5.1	5.7	C01-02
Mouth	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.7	8.9	11.2	5.8	12.3	11.3	32.7	61.9	4.0	4.4	C03-06
Salivary glands	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.2	0.2	C07-08
Tonsil	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.1	0.0	4.5	5.8	0.0	5.6	0.0	7.7	1.1	1.1	C09
Other oropharynx	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	1.8	4.5	0.0	0.0	22.6	0.0	0.0	1.1	1.2	C10
Nasopharynx	10	0.0	0.0	0.0	1.6	1.3	0.0	1.2	2.7	7.8	10.7	4.5	14.6	12.3	11.3	0.0	7.7	3.5	3.4	C11
Hypopharynx	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.1	3.6	11.2	8.8	4.1	11.3	24.5	38.7	2.9	3.2	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
Esophagus	34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	16.1	24.7	73.1	69.8	62.1	65.5	92.9	12.2	13.7	C15
Stomach	12	0.0	0.0	0.0	0.0	0.0	2.1	1.2	1.4	4.7	3.6	9.0	5.8	24.6	16.9	16.4	85.1	4.5	5.0	C16
Small intestine	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	2.9	4.1	0.0	8.2	0.0	0.5	0.5	C17
Colon	31	0.0	0.0	1.8	0.0	0.0	0.0	5.9	4.1	9.4	16.1	18.0	40.9	32.9	67.7	81.8	139.3	11.3	12.6	C18
Rectum	20	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	7.8	7.1	18.0	11.7	37.0	67.7	24.5	92.9	7.2	8.3	C19-20
Anus	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	2.9	0.0	0.0	8.2	0.0	0.4	0.4	C21
Liver and bile duct	83	0.0	0.0	0.0	0.0	0.0	2.1	13.0	19.2	32.8	55.3	76.3	108.1	106.8	158.0	237.3	131.6	30.1	31.9	C22,C24
Gallbladder	2	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	11.3	16.4	0.0	0.6	0.8	C23
Pancreas	6	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	3.6	0.0	11.7	12.3	5.6	32.7	15.5	2.0	2.4	C25
Nose, sinuses etc.	1	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0	5.6	0.0	0.0	0.5	0.6	C30-31
Larynx	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.6	8.9	15.7	8.8	24.6	28.2	24.5	61.9	4.7	5.4	C32
Trachea, Bronchus, and lung	83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	14.1	28.6	51.6	76.0	176.6	214.4	335.5	387.0	30.1	36.5	C33-34
Other thoracic organs	0	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	0.0	0.0	0.0	0.1	0.1	C37-38
Bone	4	0.0	0.0	1.8	1.6	4.0	1.0	0.0	0.0	0.0	0.0	4.5	2.9	8.2	0.0	8.2	7.7	1.6	1.7	C40-C41
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	5.8	0.0	0.0	0.0	15.5	0.6	0.7	C43
Other skin	17	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6.9	6.2	1.8	11.2	11.7	16.4	28.2	57.3	100.6	6.0	6.7	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 sarcoma	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	0.0	0.0	0.0	0.0	0.1	0.1	C46
Connective tissue	6	4.9	1.8	0.0	3.3	1.3	0.0	1.2	0.0	1.6	0.0	2.2	2.9	8.2	5.6	8.2	15.5	2.0	2.5	C47,C49
Breast	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	0.0	0.0	0.0	0.1	0.1	C50
Penis	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.8	2.2	0.0	4.1	22.6	32.7	15.5	1.7	2.1	C60
Prostate	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	14.6	16.4	45.1	155.5	232.2	8.1	10.5	C61
Testis	3	1.6	0.0	1.8	1.6	0.0	3.1	3.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.0	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	3	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	2.2	8.8	8.2	5.6	8.2	0.0	1.1	1.2	C64
Renal pelvis	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.9	4.1	5.6	0.0	0.0	0.5	0.6	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	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	8.9	9.0	35.1	20.5	62.1	81.8	116.1	7.6	9.1	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	5.6	0.0	0.0	0.1	0.2	C68
Eye	1	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	5.6	8.2	0.0	0.4	0.4	C69
Brain, nervous system	9	0.0	1.8	1.8	1.6	0.0	3.1	4.7	2.7	3.1	1.8	6.7	2.9	0.0	22.6	8.2	23.2	3.2	3.2	C70-72
Thyroid	4	0.0	0.0	0.0	0.0	1.3	1.0	3.5	1.4	1.6	0.0	2.2	0.0	4.1	5.6	8.2	0.0	1.3	1.2	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	5.6	0.0	0.0	0.1	0.2	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	2	1.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	2.2	0.0	4.1	5.6	0.0	0.0	0.7	0.9	C81
Non-Hodgkin lymphoma	30	0.0	3.5	1.8	3.3	6.6	1.0	9.4	11.0	7.8	12.5	20.2	26.3	45.2	67.7	16.4	61.9	10.8	11.3	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	6	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	4.5	5.8	8.2	22.6	24.5	31.0	2.2	2.6	C90
Lymphoid leukemia	7	8.1	5.3	1.8	1.6	1.3	1.0	1.2	0.0	0.0	1.8	4.5	2.9	0.0	0.0	8.2	23.2	2.5	3.1	C91
Myeloid leukemia	15	1.6	0.0	0.0	1.6	5.3	3.1	7.1	8.2	3.1	0.0	2.2	8.8	0.0	45.1	24.5	46.4	5.3	5.4	C92-94
Leukemia unspecified	4	6.5	1.8	0.0	0.0	0.0	1.0	0.0	1.4	1.6	1.8	0.0	0.0	0.0	0.0	0.0	15.5	1.3	1.6	C95
Other and unspecified	14	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.1	0.0	5.4	9.0	17.5	12.3	28.2	81.8	61.9	5.2	6.0	O&U
All sites	**515**	**24.3**	**16.0**	**12.5**	**18.0**	**21.3**	**19.6**	**61.2**	**82.5**	**140.6**	**210.7**	**356.8**	**549.5**	**706.4**	**1105.8**	**1464.6**	**1965.8**	**185.9**	**210.1**	**ALL**

Table 3.13.2 Rayong (2008), Annual Incidence per 100,000 by Age Group (years) - 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	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	8.0	5.0	0.0	20.7	1.0	1.0	C00
Tongue	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	1.7	2.2	8.5	4.0	5.0	6.6	5.2	1.5	1.4	C01-02
Mouth	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	4.3	2.8	12.0	10.1	19.8	72.4	3.2	3.0	C03-06
Salivary glands	1	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	5.2	0.4	0.4	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	5.7	0.0	0.0	0.0	0.0	0.2	0.2	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	5.0	0.0	0.0	0.1	0.2	C10
Nasopharynx	7	0.0	0.0	0.0	0.0	1.4	2.4	1.3	2.7	7.3	1.7	2.2	5.7	8.0	5.0	6.6	10.3	2.6	2.2	C11
Hypopharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.7	0.0	0.0	0.0	0.0	0.0	5.2	0.4	0.3	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
Esophagus	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	4.3	11.4	4.0	10.1	59.3	46.5	3.7	3.6	C15
Stomach	11	0.0	0.0	0.0	0.0	0.0	1.2	2.5	1.3	5.8	8.7	4.3	2.8	16.0	25.2	26.4	25.8	4.1	4.0	C16
Small intestine	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	2.2	0.0	4.0	0.0	6.6	0.0	0.5	0.5	C17
Colon	26	0.0	0.0	0.0	0.0	0.0	0.0	3.8	8.0	8.8	15.6	15.2	11.4	51.9	55.4	52.7	56.8	9.5	9.3	C18
Rectum	13	0.0	0.0	0.0	0.0	0.0	0.0	2.5	1.3	4.4	7.0	13.0	11.4	4.0	35.3	6.6	46.5	4.6	4.3	C19-20
Anus	1	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	0.0	6.6	0.0	0.2	0.2	C21
Liver and bile duct	23	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.7	7.3	5.2	8.7	37.0	27.9	50.4	92.2	51.7	8.5	8.5	C22,C24
Gallbladder	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	4.0	0.0	6.6	15.5	0.7	0.7	C23
Pancreas	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.9	3.5	4.3	5.7	8.0	10.1	19.8	20.7	2.4	2.3	C25
Nose, sinuses etc.	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.7	0.0	0.0	4.0	5.0	0.0	0.0	0.5	0.5	C30-31
Larynx	1	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	1.7	0.0	0.0	4.0	0.0	0.0	0.0	0.4	0.3	C32
Trachea, Bronchus, and lung	37	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.3	11.7	13.9	23.9	22.8	43.9	60.5	131.8	139.5	13.5	13.1	C33-34
Other thoracic organs	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	0.0	0.0	0.1	0.1	C37-38
Bone	2	0.0	0.0	1.9	1.7	1.4	0.0	0.0	1.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.9	0.8	C40-C41
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.2	0.0	4.0	0.0	6.6	10.3	0.7	0.7	C43
Other skin	12	0.0	0.0	0.0	0.0	0.0	2.4	2.5	2.7	1.5	1.7	6.5	2.8	12.0	15.1	32.9	62.0	4.3	4.0	C44
Mesothelioma	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	0.0	0.0	0.0	0.1	0.1	C45
Kaposi 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	5	3.4	0.0	1.9	1.7	1.4	1.2	1.3	1.3	4.4	1.7	4.3	0.0	0.0	0.0	0.0	0.0	1.7	1.7	C47,C49
Breast	120	0.0	0.0	0.0	0.0	5.6	8.3	21.4	51.9	86.3	133.9	143.4	125.2	55.9	70.5	85.6	31.0	43.8	37.6	C50
Vulva	1	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	0.0	5.2	0.2	0.2	C51
Vagina	1	1.7	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	C52
Cervix uteri	81	0.0	0.0	0.0	0.0	0.0	6.0	12.6	29.3	62.9	66.1	95.6	68.3	63.9	70.5	92.2	67.2	29.6	26.1	C53
Corpus uteri	15	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	5.8	17.4	15.2	37.0	8.0	15.1	13.2	5.2	5.4	4.9	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	5.2	0.1	0.1	C55
Ovary	25	1.7	0.0	1.9	3.4	2.8	3.6	5.0	1.3	23.4	22.6	23.9	14.2	12.0	10.1	19.8	41.3	9.1	8.1	C56
Other female genital	0	0.0	0.0	0.0	0.0	0.0	0.0	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	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C58
Kidney	3	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	4.4	5.2	2.2	0.0	0.0	0.0	0.0	5.2	1.1	0.9	C64
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	5.2	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	0.0	0.0	0.0	C66
Bladder	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.2	2.8	0.0	0.0	6.6	15.5	0.9	0.8	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	6.6	0.0	0.1	0.1	C68
Eye	1	3.4	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	0.4	0.6	C69
Brain, nervous system	8	0.0	0.0	0.0	1.7	4.2	0.0	3.8	5.3	2.9	3.5	0.0	8.5	4.0	10.1	13.2	0.0	2.8	2.5	C70-72
Thyroid	18	0.0	0.0	0.0	0.0	7.0	4.8	8.8	5.3	10.2	5.2	10.9	8.5	4.0	15.1	26.4	36.2	6.5	5.5	C73
Adrenal gland	1	1.7	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	0.2	0.4	C74
Other endocrine	0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	C75
Hodgkin disease	1	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.4	0.3	C81
Non-Hodgkin lymphoma	28	0.0	3.7	0.0	1.7	5.6	7.1	8.8	8.0	11.7	10.4	21.7	14.2	31.9	40.3	32.9	46.5	10.3	9.6	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	1.5	0.0	2.2	2.8	24.0	0.0	0.0	20.7	1.8	1.8	C90
Lymphoid leukemia	9	13.5	5.5	0.0	3.4	1.4	2.4	1.3	0.0	7.3	1.7	2.2	0.0	4.0	0.0	0.0	5.2	3.2	3.8	C91
Myeloid leukemia	13	0.0	0.0	0.0	1.7	0.0	2.4	6.3	6.6	1.5	3.5	8.7	5.7	8.0	25.2	19.8	31.0	4.6	4.2	C92-94
Leukemia unspecified	4	1.7	1.8	3.8	1.7	0.0	1.2	0.0	1.3	0.0	0.0	2.2	0.0	4.0	0.0	0.0	10.3	1.3	1.5	C95
Other and unspecified	11	0.0	0.0	1.9	0.0	0.0	0.0	1.3	4.0	2.9	3.5	8.7	14.2	20.0	20.2	26.4	15.5	4.1	4.1	O&U
All sites	**527**	**27.0**	**11.1**	**11.4**	**20.2**	**33.8**	**42.8**	**91.9**	**151.6**	**288.0**	**354.7**	**438.8**	**435.5**	**467.1**	**574.3**	**823.5**	**945.7**	**192.6**	**177.2**	**ALL**

Table 3.13.3 Annual incidence, Rayong, 2008

Site	Male						Female						ICD-10
	No. Cases Year	Freq. (%)	Crude rate	ASR world	Com. 0-64	Rate. 0-74	No. Cases Year	Freq. (%)	Crude rate	ASR world	Com. 0-64	Rate. 0-74	
			(per 100,000)		(percent)				(per 100,000)		(percent)		
Lip	1	0.1	0.2	0.2	0.0	0.0	3	0.5	1.0	1.0	0.1	0.1	C00
Tongue	14	2.7	5.1	5.7	0.4	0.6	4	0.8	1.5	1.4	0.1	0.2	C01-02
Mouth	11	2.1	4.0	4.4	0.2	0.4	9	1.6	3.2	3.0	0.1	0.3	C03-06
Salivary gland	1	0.1	0.2	0.2	0.0	0.0	1	0.2	0.4	0.4	0.0	0.0	C07-08
Tonsil	3	0.6	1.1	1.1	0.1	0.1	1	0.1	0.2	0.2	0.0	0.0	C09
Other oropharynx	3	0.6	1.1	1.2	0.0	0.2	0	0.1	0.1	0.2	0.0	0.0	C10
Nasopharynx	10	1.9	3.5	3.4	0.3	0.3	7	1.3	2.6	2.2	0.2	0.2	C11
Hypopharynx	8	1.6	2.9	3.2	0.2	0.3	1	0.2	0.4	0.3	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	C14
Oesophagus	34	6.5	12.2	13.7	1.0	1.6	10	1.9	3.7	3.6	0.1	0.5	C15
Stomach	12	2.4	4.5	5.0	0.3	0.4	11	2.1	4.1	4.0	0.2	0.5	C16
Small intestine	1	0.3	0.5	0.5	0.0	0.1	1	0.3	0.5	0.5	0.0	0.1	C17
Colon	31	6.1	11.3	12.6	0.6	1.4	26	4.9	9.5	9.3	0.6	1.1	C18
Rectum	20	3.9	7.2	8.3	0.4	0.9	13	2.4	4.6	4.3	0.2	0.4	C19-20
Anus	1	0.2	0.4	0.4	0.0	0.1	1	0.1	0.2	0.2	0.0	0.0	C21
Liver and bile duct	83	16.2	30.1	31.9	2.1	4.0	23	4.4	8.5	8.5	0.5	1.2	C22,C24
Gallbladder	2	0.3	0.6	0.8	0.0	0.2	2	0.4	0.7	0.7	0.0	0.1	C23
Pancreas	6	1.1	2.0	2.4	0.1	0.3	7	1.3	2.4	2.3	0.1	0.3	C25
Nose, sinuses etc	1	0.3	0.5	0.6	0.0	0.1	1	0.3	0.5	0.5	0.0	0.1	C30-31
Larynx	13	2.5	4.7	5.4	0.3	0.6	1	0.2	0.4	0.3	0.0	0.0	C32
Bronchus, lung	83	16.2	30.1	36.5	1.8	4.5	37	7.0	13.5	13.1	0.6	1.6	C33-34
Other thoracic organs	0	0.1	0.1	0.1	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C37-38
Bone	4	0.8	1.6	1.7	0.1	0.2	2	0.4	0.9	0.8	0.0	0.0	C40-C41
Melanoma of skin	2	0.3	0.6	0.7	0.0	0.0	2	0.4	0.7	0.7	0.0	0.1	C43
Other skin	17	3.2	6.0	6.7	0.3	0.7	12	2.2	4.3	4.0	0.2	0.4	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C45
Kaposi sarcoma	0	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C46
Connective and soft tissue	6	1.1	2.0	2.5	0.1	0.2	5	0.9	1.7	1.7	0.1	0.1	C47,C49
Breast	0	0.1	0.1	0.1	0.0	0.0	120	22.8	43.8	37.6	3.2	3.9	C50
Vulva							1	0.1	0.2	0.2	0.0	0.0	C51
Vagina							1	0.2	0.4	0.4	0.0	0.0	C52
Cervix uteri							81	15.4	29.6	26.1	2.0	2.8	C53
Corpus uteri							15	2.8	5.4	4.9	0.4	0.6	C54
Uterus unspecified							0	0.1	0.1	0.1	0.0	0.0	C55
Ovary							25	4.7	9.1	8.1	0.6	0.7	C56
Other female genital							0	0.0	0.0	0.0	0.0	0.0	C57
Placenta							1	0.1	0.2	0.2	0.0	0.0	C58
Penis	5	0.9	1.7	2.1	0.0	0.3							C60
Prostate	22	4.3	8.1	10.5	0.2	1.2							C61
Testis	3	0.6	1.2	1.0	0.1	0.1							C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0							C63
Kidney	3	0.6	1.1	1.2	0.1	0.2	3	0.6	1.1	0.9	0.1	0.1	C64
Renal pelvis	1	0.3	0.5	0.6	0.0	0.1	0	0.1	0.1	0.1	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	C66
Bladder	21	4.1	7.6	9.1	0.4	1.1	2	0.4	0.9	0.8	0.0	0.1	C67
Other urinary organs	0	0.1	0.1	0.2	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C68
Eye	1	0.2	0.4	0.4	0.0	0.1	1	0.2	0.4	0.6	0.0	0.0	C69
Brain, nervous system	9	1.7	3.2	3.2	0.2	0.3	8	1.5	2.8	2.5	0.2	0.3	C70-72
Thyroid	4	0.7	1.3	1.2	0.1	0.1	18	3.4	6.5	5.5	0.3	0.5	C73
Adrenal gland	0	0.1	0.1	0.2	0.0	0.0	1	0.1	0.2	0.4	0.0	0.0	C74
Other endocrine	0	0.0	0.0	0.0	0.0	0.0	0	0.1	0.1	0.2	0.0	0.0	C75
Hodgkin's disease	2	0.4	0.7	0.9	0.1	0.1	1	0.2	0.4	0.3	0.0	0.0	C81
Non-Hodgkin lymph	30	5.8	10.8	11.3	0.7	1.2	28	5.4	10.3	9.6	0.6	1.0	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	6	1.2	2.2	2.6	0.1	0.3	5	0.9	1.8	1.8	0.2	0.2	C90
Lymphoid leukaemia	7	1.4	2.5	3.1	0.1	0.2	9	1.6	3.2	3.8	0.2	0.2	C91
Myeloid leukaemia	15	2.8	5.3	5.4	0.2	0.6	13	2.4	4.6	4.2	0.2	0.4	C92-94
Leukemia unspecified	4	0.7	1.3	1.6	0.1	0.1	4	0.7	1.3	1.5	0.1	0.1	C95
Other and unspecified	14	2.8	5.2	6.0	0.2	0.8	11	2.1	4.1	4.1	0.3	0.5	O&U
All site	**515**	**100.0**	**185.9**	**210.1**	**11.1**	**23.9**	**527**	**100.0**	**192.6**	**177.2**	**11.9**	**18.9**	**ALL**

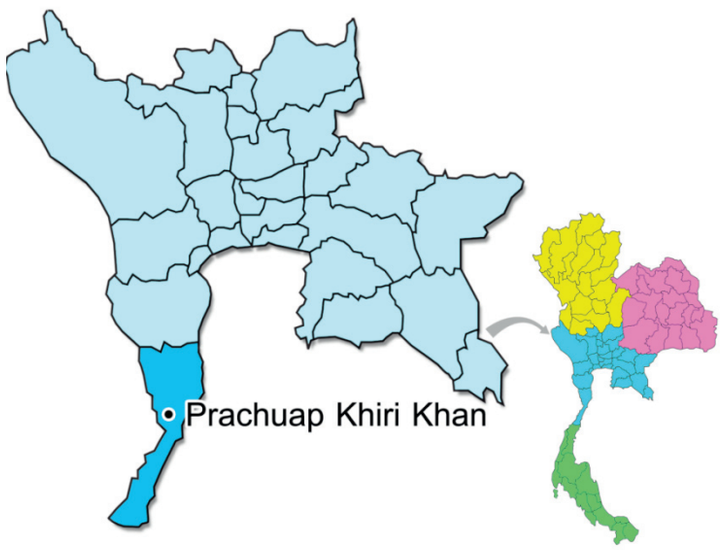
Table 3.13.4 Percentage of morphologically verified and death certificate only cases, Rayong, 2008

Site	Male			Female			ICD-10
	Cases 3 Years	%MV	%DCO	Cases 3 Years	%MV	%DCO	
Oral cavity	79	92.4	0.0	49	93.9	0.0	C00-C08
Oropharynx, etc	18	88.9	0.0	3	100.0	0.0	C09-C10,C14
Nasopharynx	29	93.1	0.0	21	90.5	0.0	C11
Hypopharynx	24	95.8	0.0	3	100.0	0.0	C12-C13
Oesophagus	101	90.1	0.0	30	73.3	6.7	C15
Stomach	37	75.7	5.4	34	79.4	2.9	C16
Small intestine	4	75.0	25.0	4	100.0	0.0	C17
Colon and rectum	157	84.1	1.3	118	94.1	1.7	C18-C21
Liver and bile duct	250	25.6	2.8	70	15.7	4.3	C22,C24
Gallbladder	5	80.0	0.0	6	66.7	0.0	C23
Pancreas	17	47.1	0.0	20	40.0	0.0	C25
Nose, sinuses etc	4	100.0	0.0	4	100.0	0.0	C30-C31
Larynx	39	97.4	0.0	3	100.0	0.0	C32
Bronchus, lung	250	71.2	2.4	111	63.1	4.5	C33-C34
Other thoracic organs	1	100.0	0.0	1	100.0	0.0	C37-C38
Bone	13	53.8	7.7	7	57.1	0.0	C40-C41
Melanoma of skin	5	100.0	0.0	6	100.0	0.0	C43
Other skin	50	98.0	2.0	35	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	17	100.0	0.0	14	100.0	0.0	C47,C49
Breast	1	100.0	0.0	360	95.8	0.3	C50
Vulva				2	100.0	0.0	C51
Vagina				3	100.0	0.0	C52
Cervix uteri				243	94.7	0.0	C53
Corpus uteri				44	100.0	0.0	C54
Uterus unspecified				1	0.0	0.0	C55
Ovary				75	81.3	0.0	C56
Other female genital				0	0.0	0.0	C57
Placenta				2	100.0	0.0	C58
Penis	14	100.0	0.0				C60
Prostate	67	67.2	3.0				C61
Testis	10	100.0	0.0				C62
Other male genital organs	0	0.0	0.0				C63
Kidney	9	77.8	11.1	9	66.7	0.0	C64
Renal pelvis	4	100.0	0.0	1	100.0	0.0	C65
Ureter	0	0.0	0.0	0	0.0	0.0	C66
Bladder	63	88.9	1.6	7	100.0	0.0	C67
Other urinary organs	1	100.0	0.0	1	100.0	0.0	C68
Eye	3	66.7	0.0	3	66.7	0.0	C69
Brain, nervous system	27	55.6	7.4	23	65.2	4.3	C70-72
Thyroid	11	100.0	0.0	53	96.2	0.0	C73
Adrenal gland	1	0.0	0.0	2	50.0	0.0	C74
Other endocrine	0	0.0	0.0	1	100.0	0.0	C75
Hodgkin's disease	6	100.0	0.0	3	100.0	0.0	C81
Non-Hodgkin lymph	90	100.0	0.0	85	100.0	0.0	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	18	100.0	0.0	15	100.0	0.0	C90
Leukemia	76	100.0	0.0	75	100.0	0.0	C91-C95
Other and unspecified	43	32.6	11.6	34	29.4	17.6	O&U
All site	**1,545**	**73.7**	**2.0**	**1,582**	**85.7**	**1.3**	**ALL**

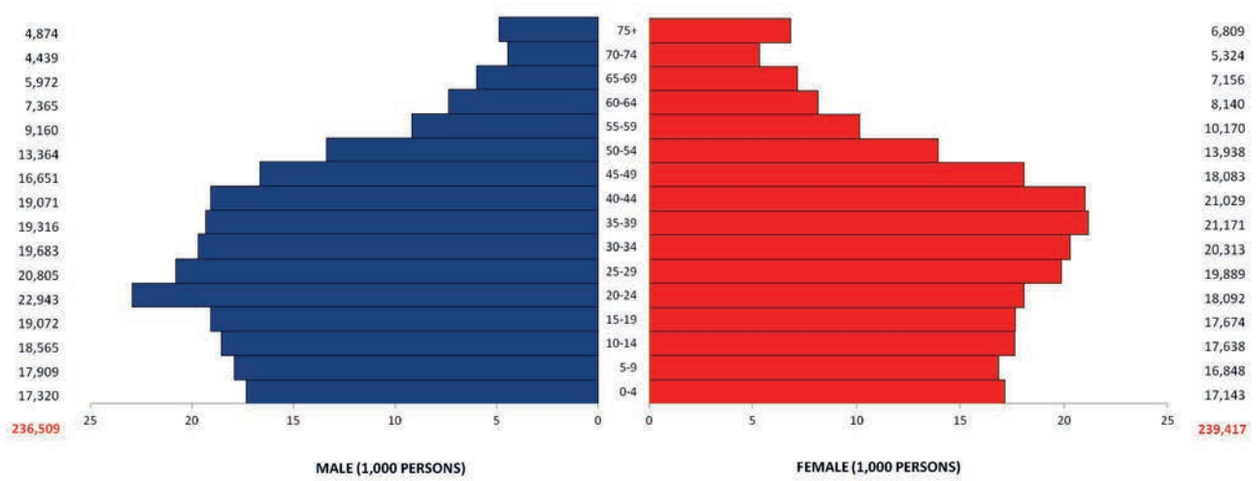
Prachuap Khiri Khan Cancer Registry

Registration area

Prachuap Khiri Khan province is located in the South, about 281 kilometers from Bangkok, at a latitude 11:49 N and longitude 99:48 E, 3 Ft (0 meters) above sea level. To the north of Prachuap Khiri Khan is Phetchaburi province, Chumphon is to the south, the Gulf of Thailand to the east and Myanmar to the west. The total area is 6,368 square kilometers. The province, today, is most famous for its natural charm of beaches and mountains than historical significance. Hua Hin, its major attraction, is one of Thailand's most popular seaside resorts among overseas visitors as well as Thais. Prachuap Khiri Khan is now divided into 7 districts and 1 sub-district.



Population pyramid, Prachuap Khiri Khan, 2008



Cancer care facilities

Prachuap Khiri Khan cancer registry in under the supervision of the National Cancer Institute. At the primary health care level, there are no facilities for specialized cancer diagnosis and treatment. Prachuap Khiri Khan provincial hospital is a general hospital with no facilities for chemotherapy and radiotherapy. Most cancer patients are referred to cancer centers and the other hospitals for diagnosis and treatment.

Cancer surgery services are provided at Prachuap Khiri Khan provincial hospital and private hospitals. The cancer patients are referred for chemotherapy and radiotherapy to Ratchaburi or Bangkok hospitals.

Registry procedures

The population-based cancer registry of Prachuap Khiri Khan province was set up at the National Cancer Institute, Bangkok in 1997. The source of information comes from all hospitals in Prachuap Khiri Khan province and Bangkok cancer registry. Cancer cases are collected from the medical records departments, outpatient clinics, pathology laboratories, clinical laboratories and death certificates. All data are checked for duplication, verified, coded and keyed into the Thai Cancer Base Programme and IARC/IACR Cancer Registry tools programme.

Summary of results

New cases registered in 2008, 318 were males and 346 were females, making 664 for both sexes. The age - standardized incidence rate (ASR) for all sites in males was 136.4 per 100,000 with lung cancer ranking first (ASR = 20.3) followed by liver and bile duct (ASR = 17.7), colon and rectum (ASR = 15.9). The ASR for all cancers in females the 124.6, the three leading sites being breast (ASR = 29.4), cervix (ASR = 21.2) and colon and rectum (ASR = 9.9).

Figure 3.14 Leading cancer in Prachuap Khiri Khan, 2008

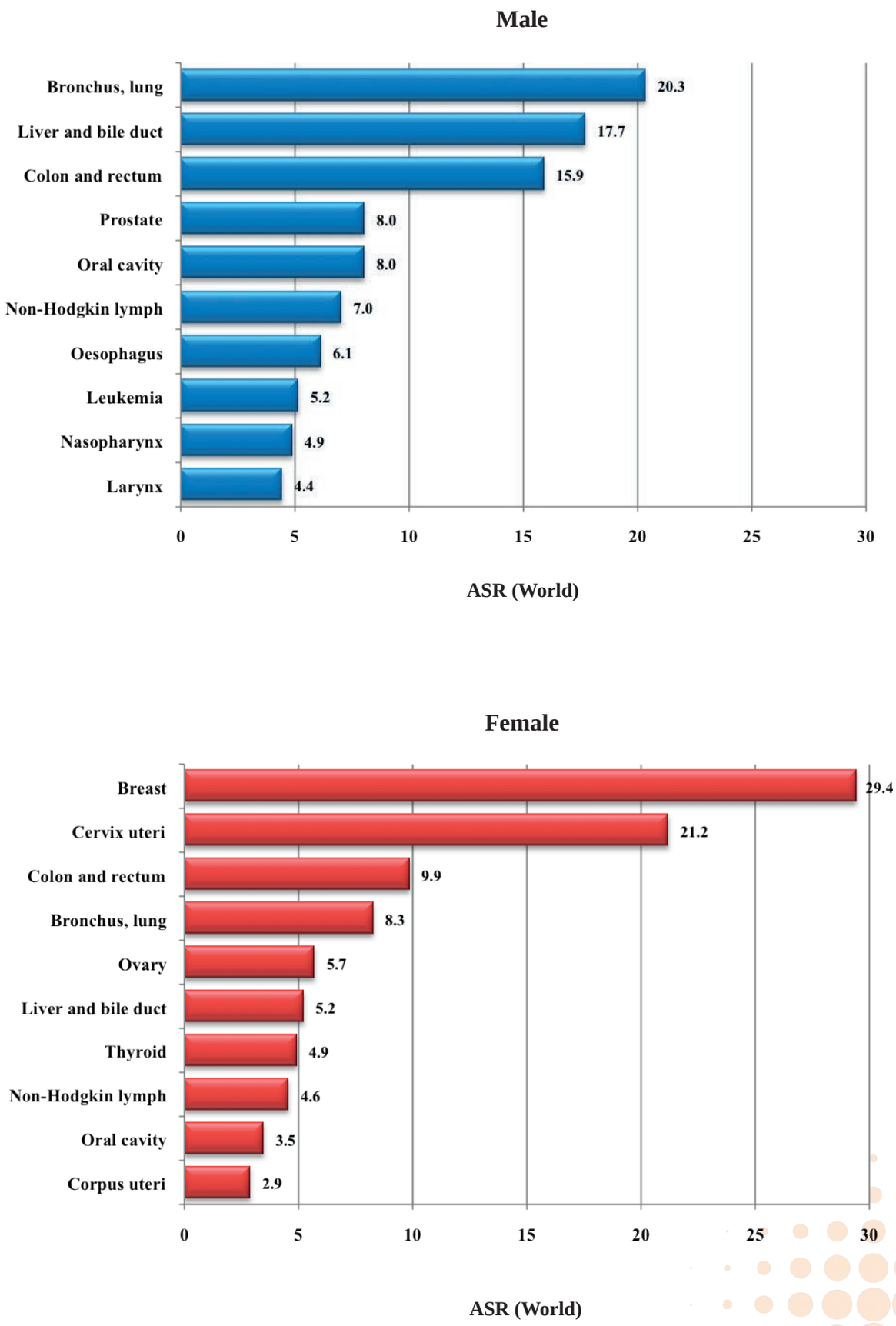


Table 3.14.1 Prachuap Khiri Khan (2008), Annual Incidence per 100,000 by Age Group (years) - Male

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	0	0.0	0.0	0.0	0.0	0.0	0.0	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
Tongue	9	0.0	0.0	0.0	0.0	0.0	1.6	1.7	0.0	1.7	4.0	5.0	10.9	36.2	16.7	7.5	34.2	3.8	4.0	C01-02
Mouth	9	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	5.2	2.0	2.5	21.8	27.2	5.6	22.5	27.4	3.8	3.9	C03-06
Salivary glands	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	0.0	0.0	0.0	0.0	0.1	0.1	C07-08
Tonsil	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	2.5	3.6	13.6	0.0	7.5	6.8	1.3	1.3	C09
Other oropharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.0	0.0	3.6	0.0	0.0	0.0	0.0	0.6	0.5	C10
Nasopharynx	13	0.0	0.0	0.0	0.0	0.0	1.6	5.1	13.8	7.0	4.0	12.5	10.9	13.6	22.3	7.5	27.4	5.4	4.9	C11
Hypopharynx	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	5.0	0.0	0.0	11.2	30.0	0.0	1.3	1.3	C12-13
Pharynx unspecified	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	5.0	3.6	0.0	11.2	0.0	6.8	1.0	1.0	C14
Esophagus	14	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	8.0	17.5	10.9	40.7	16.7	52.6	47.9	5.9	6.1	C15
Stomach	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	4.0	5.0	7.3	13.6	11.2	22.5	41.0	3.0	3.0	C16
Small intestine	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	7.5	6.8	0.3	0.3	C17
Colon	21	0.0	0.0	0.0	0.0	0.0	3.2	3.4	1.7	12.2	8.0	10.0	7.3	22.6	50.2	105.1	82.1	8.7	8.7	C18
Rectum	16	0.0	0.0	0.0	0.0	0.0	4.8	1.7	1.7	0.0	4.0	2.5	14.6	36.2	50.2	45.1	82.1	6.6	7.0	C19-20
Anus	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	0.0	0.0	0.0	0.0	0.1	0.1	C21
Liver and bile duct	43	1.9	0.0	0.0	0.0	0.0	0.0	6.8	10.4	14.0	26.0	49.9	91.0	40.7	72.6	82.6	123.1	18.0	17.7	C22,C24
Gallbladder	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	5.6	0.0	0.0	0.3	0.3	C23
Pancreas	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.0	5.0	0.0	13.6	11.2	0.0	13.7	1.7	1.7	C25
Nose, sinuses etc.	1	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	7.5	0.0	0.4	0.4	C30-31
Larynx	10	0.0	0.0	0.0	0.0	1.5	0.0	0.0	3.5	1.7	4.0	12.5	10.9	22.6	22.3	22.5	34.2	4.4	4.4	C32
Trachea, Bronchus, and lung	46	0.0	0.0	0.0	0.0	1.5	1.6	1.7	5.2	1.7	18.0	20.0	72.8	63.4	178.6	150.2	184.7	19.3	20.3	C33-34
Other thoracic organs	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	0.0	0.0	0.1	0.1	C37-38
Bone	4	0.0	1.9	3.6	0.0	2.9	0.0	0.0	1.7	0.0	4.0	2.5	0.0	4.5	0.0	7.5	0.0	1.6	1.5	C40-C41
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	0.0	16.7	0.0	0.0	0.7	0.7	C43
Other skin	8	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	4.0	10.0	3.6	9.1	11.2	7.5	61.6	3.4	3.3	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 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	3	1.9	0.0	0.0	0.0	2.9	0.0	0.0	3.5	0.0	2.0	2.5	3.6	0.0	0.0	0.0	6.8	1.3	1.2	C47,C49
Breast	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	9.1	0.0	0.0	0.0	0.6	0.7	C50
Penis	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	4.5	0.0	7.5	6.8	0.7	0.7	C60
Prostate	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	14.6	22.6	50.2	82.6	164.1	7.6	8.0	C61
Testis	2	0.0	0.0	0.0	0.0	0.0	1.6	3.4	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.7	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	1	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	7.5	13.7	0.6	0.5	C64
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
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	9	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	18.2	4.5	33.5	30.0	61.6	3.8	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	0	0.0	0.0	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	0.0	0.1	0.2	C69
Brain, nervous system	9	3.8	1.9	1.8	1.7	0.0	1.6	1.7	0.0	7.0	0.0	7.5	10.9	9.1	22.3	7.5	13.7	3.7	3.9	C70-72
Thyroid	3	0.0	0.0	0.0	0.0	0.0	3.2	1.7	0.0	1.7	2.0	0.0	10.9	0.0	0.0	0.0	6.8	1.3	1.2	C73
Adrenal gland	0	1.9	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	0.1	0.2	C74
Other endocrine	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	0.0	0.0	0.0	0.0	0.1	0.1	C75
Hodgkin disease	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	0.0	0.0	0.0	0.0	0.1	0.1	C81
Non-Hodgkin lymphoma	17	0.0	0.0	1.8	1.7	1.5	3.2	3.4	5.2	8.7	6.0	15.0	32.8	27.2	16.7	30.0	34.2	7.2	7.0	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
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	3.6	9.1	11.2	0.0	0.0	0.7	0.8	C90
Lymphoid leukemia	4	3.8	3.7	7.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	5.6	0.0	6.8	1.8	2.3	C91
Myeloid leukemia	4	0.0	0.0	0.0	1.7	1.5	0.0	1.7	3.5	1.7	0.0	0.0	7.3	9.1	5.6	7.5	0.0	1.7	1.7	C92-94
Leukemia unspecified	3	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.5	1.7	4.0	0.0	0.0	0.0	0.0	7.5	20.5	1.4	1.2	C95
Other and unspecified	21	0.0	0.0	1.8	1.7	1.5	0.0	3.4	1.7	12.2	8.0	22.4	10.9	58.8	16.7	67.6	68.4	9.0	9.1	O&U
All sites	**318**	**13.5**	**7.4**	**18.0**	**10.5**	**14.5**	**24.0**	**47.4**	**63.9**	**94.4**	**122.1**	**227.0**	**400.3**	**516.0**	**675.4**	**833.5**	**1190.0**	**134.3**	**136.4**	**ALL**

Table 3.14.2 Prachuap Khiri Khan (2008), Annual Incidence per 100,000 by Age Group (years) - 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	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	14.7	0.4	0.3	C00
Tongue	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	2.4	0.0	0.0	0.0	0.0	19.6	0.8	0.6	C01-02
Mouth	5	0.0	0.0	0.0	0.0	1.8	0.0	3.3	1.6	0.0	0.0	2.4	0.0	0.0	4.7	18.8	29.4	2.1	1.7	C03-06
Salivary glands	2	0.0	0.0	0.0	1.9	0.0	1.7	0.0	1.6	1.6	1.8	0.0	0.0	4.1	0.0	6.3	0.0	1.0	0.9	C07-08
Tonsil	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	6.3	4.9	0.4	0.3	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	2	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	1.6	3.7	2.4	3.3	4.1	0.0	0.0	0.0	1.0	0.9	C11
Hypopharynx	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	4.7	0.0	0.0	0.3	0.2	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	4.7	0.0	0.0	0.1	0.1	C14
Esophagus	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	12.3	9.3	6.3	14.7	1.7	1.5	C15
Stomach	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	3.2	3.7	7.2	0.0	16.4	9.3	6.3	14.7	2.8	2.4	C16
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	0.0	0.0	0.0	0.0	0.0	C17
Colon	17	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	7.4	31.1	26.2	20.5	32.6	12.5	49.0	7.2	6.4	C18
Rectum	9	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	3.2	12.9	7.2	9.8	0.0	23.3	31.3	9.8	3.9	3.3	C19-20
Anus	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.1	0.2	C21
Liver and bile duct	15	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1	6.3	3.7	19.1	16.4	12.3	23.3	37.6	39.2	6.1	5.2	C22,C24
Gallbladder	3	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	14.0	0.0	19.6	1.1	0.9	C23
Pancreas	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	9.8	4.1	9.3	12.5	9.8	1.7	1.5	C25
Nose, sinuses etc.	1	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	4.7	0.0	4.9	0.6	0.5	C30-31
Larynx	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.8	2.4	3.3	4.1	0.0	0.0	14.7	1.1	0.9	C32
Trachea, Bronchus, and lung	22	0.0	0.0	0.0	0.0	0.0	1.7	1.6	3.1	7.9	9.2	16.7	32.8	41.0	32.6	43.8	58.7	9.3	8.3	C33-34
Other thoracic organs	1	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.3	0.3	C37-38
Bone	1	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	1.6	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.6	0.5	C40-C41
Melanoma of skin	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	8.2	0.0	0.0	4.9	0.6	0.5	C43
Other skin	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.7	12.0	0.0	4.1	0.0	12.5	24.5	2.4	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 sarcoma	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	0.0	0.0	0.0	0.1	0.1	C46
Connective tissue	4	0.0	0.0	0.0	1.9	0.0	1.7	1.6	0.0	1.6	3.7	4.8	0.0	0.0	4.7	12.5	4.9	1.7	1.4	C47,C49
Breast	84	0.0	0.0	0.0	7.5	3.7	11.7	18.1	39.4	49.1	92.2	107.6	91.8	61.4	41.9	62.6	78.3	35.2	29.4	C50
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	6.3	4.9	0.3	0.2	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	4.9	0.1	0.1	C52
Cervix uteri	60	1.9	0.0	0.0	0.0	0.0	3.4	9.8	26.8	33.3	57.1	76.5	55.7	61.4	65.2	81.4	49.0	24.9	21.2	C53
Corpus uteri	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	1.8	12.0	19.7	16.4	0.0	12.5	19.6	3.2	2.9	C54
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	6.6	0.0	4.7	0.0	4.9	0.6	0.5	C55
Ovary	15	0.0	0.0	0.0	3.8	1.8	0.0	1.6	3.1	6.3	18.4	21.5	16.4	20.5	14.0	18.8	4.9	6.4	5.7	C56
Other female genital	0	0.0	0.0	0.0	0.0	0.0	0.0	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	1	0.0	0.0	0.0	0.0	1.8	3.4	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.5	C58
Kidney	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	8.2	0.0	0.0	0.0	0.4	0.4	C64
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	4.7	0.0	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	4.9	0.1	0.1	C66
Bladder	3	1.9	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	6.6	8.2	0.0	6.3	9.8	1.3	1.3	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	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.3	0.4	C69
Brain, nervous system	6	1.9	0.0	0.0	0.0	0.0	1.7	4.9	1.6	3.2	0.0	9.6	0.0	4.1	4.7	0.0	14.7	2.4	2.0	C70-72
Thyroid	14	0.0	0.0	1.9	3.8	0.0	5.0	16.4	4.7	6.3	5.5	9.6	6.6	8.2	14.0	12.5	14.7	5.8	4.9	C73
Adrenal gland	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	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	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	0.0	0.0	0.0	0.1	0.1	C81
Non-Hodgkin lymphoma	12	1.9	2.0	0.0	1.9	1.8	0.0	4.9	0.0	1.6	11.1	9.6	3.3	4.1	37.3	18.8	24.5	5.0	4.6	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	2	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	1.6	0.0	2.4	3.3	0.0	0.0	0.0	9.8	0.8	0.6	C90
Lymphoid leukemia	2	1.9	2.0	1.9	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.9	C91
Myeloid leukemia	2	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	3.2	0.0	0.0	3.3	4.1	0.0	0.0	0.0	0.7	0.6	C92-94
Leukemia unspecified	2	0.0	0.0	0.0	0.0	1.8	1.7	1.6	0.0	0.0	1.8	0.0	0.0	4.1	0.0	6.3	4.9	1.0	0.9	C95
Other and unspecified	17	0.0	0.0	0.0	0.0	0.0	0.0	8.2	3.1	4.8	5.5	16.7	19.7	20.5	27.9	37.6	34.3	7.0	6.0	O&U
All sites	**346**	**11.7**	**4.0**	**3.8**	**20.7**	**27.6**	**35.2**	**80.4**	**99.2**	**147.4**	**250.7**	**389.8**	**337.6**	**356.3**	**395.9**	**469.6**	**621.7**	**144.5**	**124.6**	**ALL**

Table 3.14.3 Annual incidence, Prachuap Khiri Khan, 2008

Site	Male						Female						ICD-10
	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	
Lip	0	0.0	0.0	0.0	0.0	0.0	1	0.3	0.4	0.3	0.0	0.0	C00
Tongue	9	2.8	3.8	4.0	0.3	0.4	2	0.6	0.8	0.6	0.0	0.0	C01-02
Mouth	9	2.8	3.8	3.9	0.3	0.5	5	1.4	2.1	1.7	0.0	0.2	C03-06
Salivary glands	0	0.1	0.1	0.1	0.0	0.0	2	0.7	1.0	0.9	0.1	0.1	C07-08
Tonsil	3	0.9	1.3	1.3	0.1	0.2	1	0.3	0.4	0.3	0.0	0.0	C09
Other oropharynx	1	0.4	0.6	0.5	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C10
Nasopharynx	13	4.0	5.4	4.9	0.3	0.5	2	0.7	1.0	0.9	0.1	0.1	C11
Hypopharynx	3	0.9	1.3	1.3	0.0	0.2	1	0.2	0.3	0.2	0.0	0.0	C12-13
Pharynx unspecified	2	0.7	1.0	1.0	0.1	0.1	0	0.1	0.1	0.1	0.0	0.0	C14
Esophagus	14	4.4	5.9	6.1	0.4	0.7	4	1.2	1.7	1.5	0.1	0.2	C15
Stomach	7	2.2	3.0	3.0	0.2	0.3	7	1.9	2.8	2.4	0.2	0.3	C16
Small intestine	1	0.2	0.3	0.3	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C17
Colon	21	6.5	8.7	8.7	0.3	1.1	17	5.0	7.2	6.4	0.4	0.7	C18
Rectum	16	4.9	6.6	7.0	0.3	0.8	9	2.7	3.9	3.3	0.2	0.4	C19-20
Anus	0	0.1	0.1	0.1	0.0	0.0	0	0.1	0.1	0.2	0.0	0.0	C21
Liver and bile duct	43	13.4	18.0	17.7	1.2	2.0	15	4.2	6.1	5.2	0.3	0.6	C22,C24
Gallbladder	1	0.2	0.3	0.3	0.0	0.0	3	0.8	1.1	0.9	0.0	0.1	C23
Pancreas	4	1.3	1.7	1.7	0.1	0.2	4	1.2	1.7	1.5	0.1	0.2	C25
Nose, sinuses etc.	1	0.3	0.4	0.4	0.0	0.1	1	0.4	0.6	0.5	0.0	0.0	C30-31
Larynx	10	3.3	4.4	4.4	0.3	0.5	3	0.8	1.1	0.9	0.1	0.1	C32
Trachea, Bronchus, and lung	46	14.4	19.3	20.3	0.9	2.6	22	6.5	9.3	8.3	0.6	1.0	C33-34
Other thoracic organs	0	0.1	0.1	0.1	0.0	0.0	1	0.2	0.3	0.3	0.0	0.0	C37-38
Bone	4	1.2	1.6	1.5	0.1	0.1	1	0.4	0.6	0.5	0.0	0.0	C40-C41
Melanoma of skin	2	0.5	0.7	0.7	0.0	0.1	1	0.4	0.6	0.5	0.1	0.1	C43
Other skin	8	2.5	3.4	3.3	0.2	0.3	6	1.6	2.4	1.9	0.1	0.2	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi sarcoma	0	0.0	0.0	0.0	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C46
Connective tissue	3	0.9	1.3	1.2	0.1	0.1	4	1.2	1.7	1.4	0.1	0.2	C47,C49
Breast	1	0.4	0.6	0.7	0.1	0.1	84	24.4	35.2	29.4	2.4	2.9	C50
Vulva							1	0.2	0.3	0.2	0.0	0.0	C51
Vagina							0	0.1	0.1	0.1	0.0	0.0	C52
Cervix uteri							60	17.2	24.9	21.2	1.6	2.4	C53
Corpus uteri							8	2.2	3.2	2.9	0.3	0.3	C54
Uterus unspecified							1	0.4	0.6	0.5	0.0	0.1	C55
Ovary							15	4.4	6.4	5.7	0.5	0.6	C56
Other female genital							0	0.0	0.0	0.0	0.0	0.0	C57
Placenta							1	0.4	0.6	0.5	0.0	0.0	C58
Penis	2	0.5	0.7	0.7	0.0	0.1							C60
Prostate	18	5.7	7.6	8.0	0.2	0.9							C61
Testis	2	0.5	0.7	0.6	0.0	0.0							C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0							C63
Kidney	1	0.4	0.6	0.5	0.0	0.1	1	0.3	0.4	0.4	0.1	0.1	C64
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C65
Ureter	0	0.0	0.0	0.0	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C66
Bladder	9	2.8	3.8	3.9	0.1	0.4	3	0.9	1.3	1.3	0.1	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	0	0.1	0.1	0.2	0.0	0.0	1	0.2	0.3	0.4	0.0	0.0	C69
Brain, nervous system	9	2.7	3.7	3.9	0.2	0.4	6	1.6	2.4	2.0	0.1	0.2	C70-72
Thyroid	3	0.9	1.3	1.2	0.1	0.1	14	4.0	5.8	4.9	0.3	0.5	C73
Adrenal gland	0	0.1	0.1	0.2	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C74
Other endocrine	0	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	0	0.1	0.1	0.1	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C81
Non-Hodgkin lymphoma	17	5.4	7.2	7.0	0.5	0.8	12	3.5	5.0	4.6	0.2	0.5	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	2	0.5	0.7	0.8	0.1	0.1	2	0.6	0.8	0.6	0.0	0.0	C90
Lymphoid leukemia	4	1.4	1.8	2.3	0.1	0.1	2	0.5	0.7	0.9	0.0	0.0	C91
Myeloid leukemia	4	1.3	1.7	1.7	0.1	0.2	2	0.5	0.7	0.6	0.1	0.1	C92-94
Leukemia unspecified	3	1.0	1.4	1.2	0.1	0.1	2	0.7	1.0	0.9	0.1	0.1	C95
Other and unspecified	21	6.7	9.0	9.1	0.6	1.0	17	4.8	7.0	6.0	0.4	0.7	O&U
All sites	**318**	**100.0**	**134.3**	**136.4**	**7.8**	**15.3**	**346**	**100.0**	**144.5**	**124.6**	**8.8**	**13.1**	**ALL**

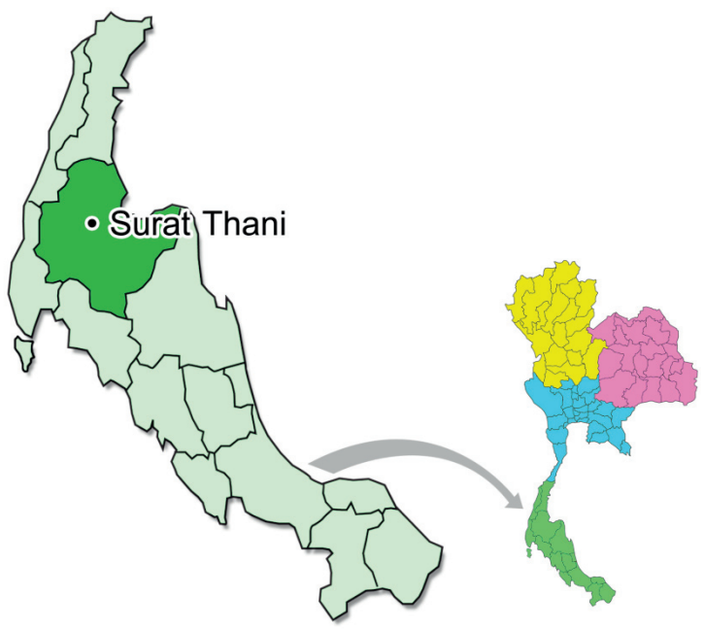
Table 3.14.4 Percentage of morphologically verified and death certificate only cases, Prachuap Khiri khan, 2008

Site	Male			Female			ICD-10
	Cases 3 Years	%MV	%DCO	Cases 3 Years	%MV	%DCO	
Oral cavity	55	69.1	7.3	31	61.3	9.7	C00-C08
Oropharynx, etc	20	50.0	10.0	4	25.0	0.0	C09-C10,C14
Nasopharynx	38	52.6	7.9	7	28.6	0.0	C11
Hypopharynx	9	66.7	0.0	2	100.0	0.0	C12-C13
Oesophagus	42	50.0	7.1	12	58.3	0.0	C15
Stomach	21	61.9	0.0	20	45.0	5.0	C16
Small intestine	2	100.0	0.0	0	0.0	0.0	C17
Colon and rectum	110	52.7	6.4	81	60.5	3.7	C18-C21
Liver and bile duct	128	35.2	15.6	44	34.1	15.9	C22,C24
Gallbladder	2	50.0	0.0	8	0.0	25.0	C23
Pancreas	12	25.0	0.0	12	33.3	0.0	C25
Nose, sinuses etc	3	0.0	33.3	4	50.0	0.0	C30-C31
Larynx	31	54.8	9.7	8	50.0	0.0	C32
Bronchus, lung	137	36.5	12.4	67	49.3	6.0	C33-C34
Other thoracic organs	1	100.0	0.0	2	100.0	0.0	C37-C38
Bone	11	81.8	0.0	4	100.0	0.0	C40-C41
Melanoma of skin	5	100.0	0.0	4	100.0	0.0	C43
Other skin	24	83.3	4.2	17	88.2	0.0	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	9	77.8	0.0	12	83.3	0.0	C47,C49
Breast	4	75.0	0.0	253	73.5	2.8	C50
Vulva				2	100.0	0.0	C51
Vagina				1	100.0	0.0	C52
Cervix uteri				179	72.6	4.5	C53
Corpus uteri				23	95.7	0.0	C54
Uterus unspecified				4	25.0	50.0	C55
Ovary				46	65.2	2.2	C56
Other female genital				0	0.0	0.0	C57
Placenta				4	100.0	0.0	C58
Penis	5	80.0	0.0				C60
Prostate	54	46.3	7.4				C61
Testis	5	80.0	0.0				C62
Other male genital organs	0	0.0	0.0				C63
Kidney	4	50.0	25.0	3	66.7	0.0	C64
Renal pelvis	0	0.0	0.0	1	100.0	0.0	C65
Ureter	0	0.0	0.0	1	0.0	0.0	C66
Bladder	27	55.6	7.4	9	33.3	0.0	C67
Other urinary organs	0	0.0	0.0	0	0.0	0.0	C68
Eye	1	0.0	0.0	2	50.0	0.0	C69
Brain, nervous system	26	38.5	23.1	17	41.2	35.3	C70-72
Thyroid	9	88.9	11.1	42	83.3	4.8	C73
Adrenal gland	1	0.0	0.0	1	0.0	0.0	C74
Other endocrine	1	0.0	0.0	0	0.0	0.0	C75
Hodgkin's disease	1	100.0	0.0	1	100.0	0.0	C81
Non-Hodgkin lymph	51	98.0	2.0	36	100.0	0.0	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	5	100.0	0.0	6	100.0	0.0	C90
Leukemia	35	100.0	0.0	17	100.0	0.0	C91-C95
Other and unspecified	64	10.9	32.8	50	28.0	18.0	O&U
All site	**953**	**51.9**	**10.2**	**1,038**	**65.7**	**5.3**	**ALL**

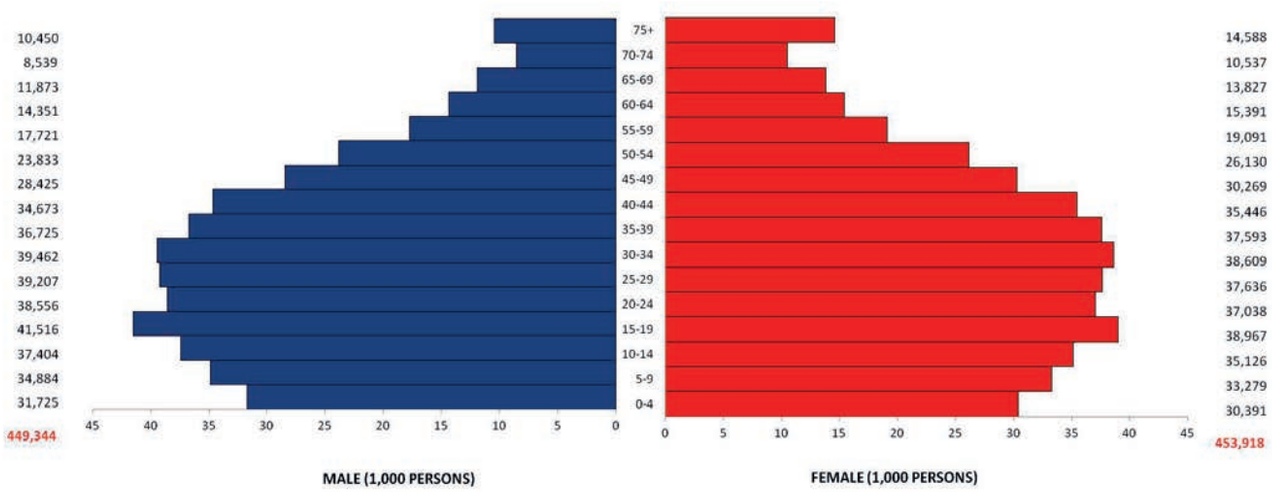
Surat Thani Cancer Registry

Registration area

Surat Thani, one of the 14 provinces of the Southern Region of Thailand, is subdivided into 19 districts, which are further subdivided into 131 subdistricts and 1,028 villages. The population in the year 2008 was 903,262, about 97.5% of which are Buddhists and nearly 2% are Moslems. Christians and others account for less than 0.5% of the population. Surat Thani province borders the Gulf of Thailand to the north and east, Chumphon province to the north, Nakhon Si Thammarat and Krabi provinces to the south, Phang Nga and Ranong provinces to the west and Nakhon Si Thammarat province to the east.



Population pyramid, Surat Thani, 2008



Cancer care facilities

Community hospitals are provided in all 19 districts of Suratthani. One cancer center (Surat Thani cancer center) is situated in Muaeng district which is the center of the province. The Surat Thani provincial hospital has facilities for cancer surgery and chemotherapy. The Surat Thani cancer center is the only place in the province with radiotherapy services. Patients suspected to have cancer in the health care system and community hospitals are referred to the Surat Thani provincial hospital, Surat Thani cancer center or Songklanagarind hospital.

Registry procedures

All data on cancer patients are collected by a mixture of passive and active methods involving notification by the staff of Suratthani cancer center, Suratthani provincial hospital, one Suratthani provincial hospital, 19 community hospitals, pathological laboratory in Suratthani hospital, cancer registration unit of Songklanagarind hospital and information of deaths from all causes of death from Bureau of health policy and strategy, Ministry of Public Health. All 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.

Summary of results

New cases registered in 2008, 560 were males and 579 were females, making 1,139 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 123.1 per 100,000 in which lung ranks first cancer ranks first (ASR = 15.2) followed by liver and bile duct (ASR = 14.3), and colon and rectum (ASR = 11.2). The ASR of all cancer sites in females was 110.4, the three leading cancers being breast (ASR = 23.8), cervix (ASR = 14.9) and thyroid (ASR = 7.6).

Figure 3.15 Leading cancer in Surat Thani, 2008

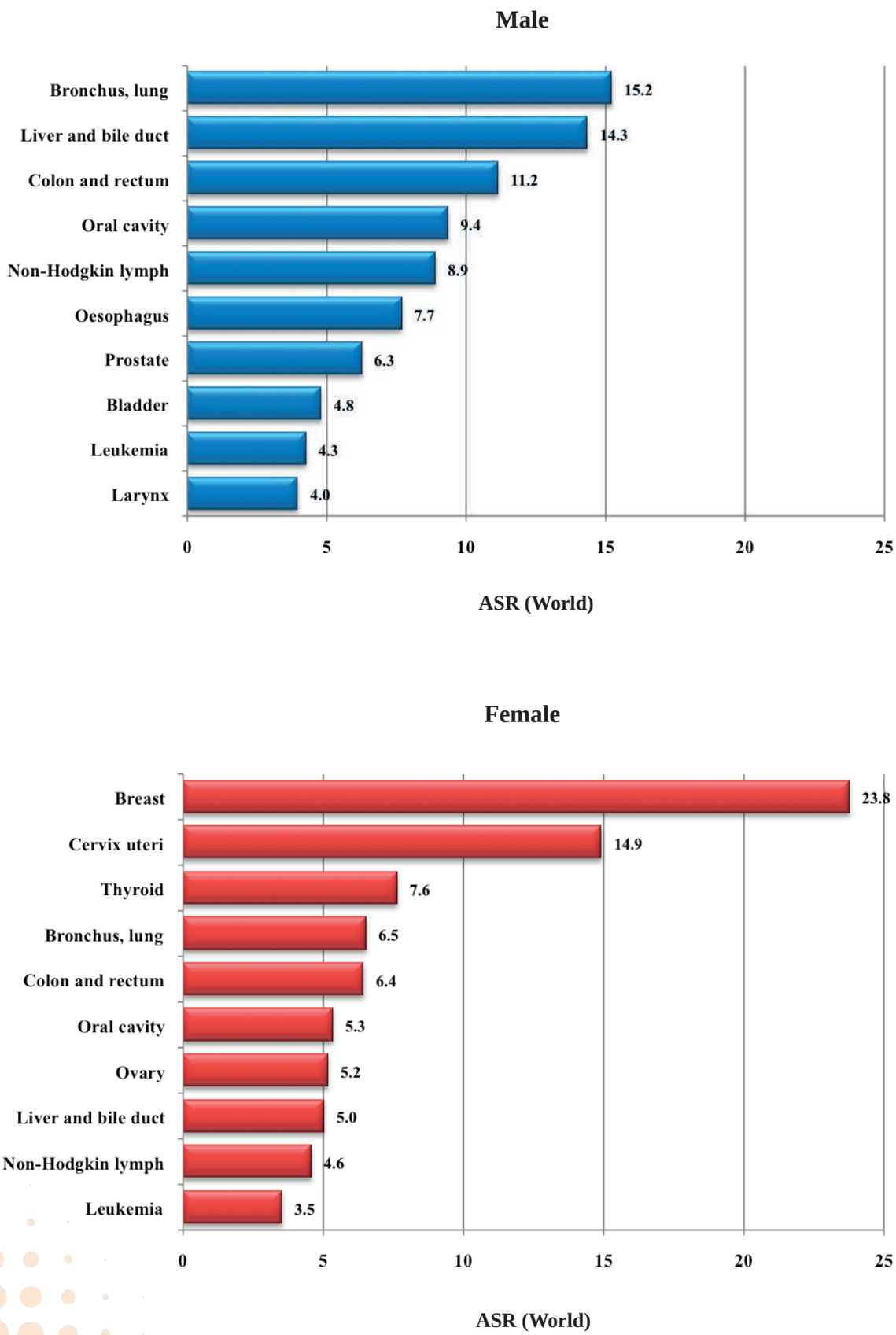


Table 3.15.1 Surat Thani (2008), Annual Incidence per 100,000 by Age Group (years) - Male

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	1.4	0.0	0.0	5.6	0.0	3.2	0.3	0.3	C00
Tongue	22	0.0	1.0	0.0	0.8	1.7	0.9	0.8	2.7	4.8	5.9	11.2	9.4	11.6	19.7	46.8	28.7	4.8	4.7	C01-02
Mouth	18	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	1.9	4.7	7.0	7.5	16.3	11.2	31.2	60.6	4.0	4.0	C03-06
Salivary glands	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	3.8	2.3	0.0	3.9	0.0	0.4	0.4	C07-08
Tonsil	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	4.2	0.0	4.6	2.8	19.5	3.2	1.2	1.2	C09
Other oropharynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	2.8	3.8	0.0	0.0	0.0	0.0	0.4	0.3	C10
Nasopharynx	11	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.6	1.0	8.2	5.6	0.0	7.0	11.2	0.0	15.9	2.4	2.2	C11
Hypopharynx	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.0	2.3	4.2	3.8	9.3	11.2	15.6	31.9	2.3	2.3	C12-13
Pharynx unspecified	2	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	3.9	9.6	0.4	0.3	C14
Esophagus	34	0.0	0.0	0.0	0.8	0.0	0.0	0.8	0.0	3.8	12.9	11.2	26.3	34.8	30.9	58.6	73.4	7.6	7.7	C15
Stomach	13	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	1.9	1.2	7.0	9.4	11.6	11.2	19.5	35.1	2.9	2.9	C16
Small intestine	3	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	1.4	3.8	2.3	0.0	3.9	6.4	0.6	0.6	C17
Colon	27	0.0	0.0	0.0	0.0	0.9	0.0	2.5	1.8	5.8	7.0	9.8	11.3	18.6	33.7	39.0	67.0	6.1	5.9	C18
Rectum	24	0.0	0.0	0.0	0.0	0.0	0.9	0.0	3.6	1.9	3.5	7.0	9.4	23.2	28.1	42.9	63.8	5.3	5.2	C19-20
Anus	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C21
Liver and bile duct	67	0.0	0.0	0.0	0.0	0.0	1.7	8.4	10.9	12.5	19.9	40.6	45.1	53.4	42.1	82.0	111.6	14.9	14.3	C22,C24
Gallbladder	1	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	2.8	0.0	3.2	0.3	0.3	C23
Pancreas	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	4.7	1.4	0.0	0.0	2.8	0.0	6.4	0.7	0.7	C25
Nose, sinuses etc.	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.2	1.4	1.9	2.3	0.0	3.9	0.0	0.4	0.4	C30-31
Larynx	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	8.2	7.0	15.0	16.3	22.5	31.2	25.5	3.9	4.0	C32
Trachea, Bronchus, and lung	68	0.0	0.0	0.0	0.0	0.0	0.0	1.7	6.4	8.7	11.7	21.0	39.5	62.7	92.6	156.1	124.4	15.1	15.2	C33-34
Other thoracic organs	3	0.0	0.0	0.0	0.0	0.0	0.9	0.8	0.0	1.0	1.2	0.0	0.0	2.3	5.6	0.0	3.2	0.6	0.6	C37-38
Bone	2	0.0	0.0	1.8	0.0	0.9	0.0	0.8	0.9	0.0	0.0	0.0	0.0	2.3	2.8	0.0	0.0	0.5	0.5	C40-C41
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.2	0.0	0.0	2.3	2.8	3.9	3.2	0.4	0.4	C43
Other skin	15	0.0	0.0	0.0	0.0	0.0	0.9	1.7	2.7	1.0	5.9	1.4	7.5	13.9	8.4	15.6	44.7	3.3	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 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	3	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.9	0.0	2.3	2.8	0.0	2.3	5.6	0.0	3.2	0.7	0.7	C47,C49
Breast	3	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	2.9	0.0	0.0	1.9	0.0	2.8	0.0	3.2	0.6	0.5	C50
Penis	8	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	2.3	5.6	5.6	2.3	8.4	11.7	19.1	1.7	1.7	C60
Prostate	27	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	7.5	18.6	53.3	85.9	79.7	6.1	6.3	C61
Testis	4	1.1	0.0	0.9	0.8	0.9	0.0	0.8	1.8	1.0	1.2	0.0	0.0	0.0	2.8	0.0	9.6	1.0	0.9	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	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6	4.6	5.6	3.9	12.8	1.0	1.1	C64
Renal pelvis	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	0.0	0.0	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	0.0	0.0	0.0	C66
Bladder	22	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.9	0.0	5.6	5.6	20.9	16.8	35.1	102.1	5.0	4.8	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	0.9	1.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.2	0.2	C69
Brain, nervous system	14	3.2	1.9	1.8	0.8	0.0	2.6	0.0	6.4	1.0	5.9	2.8	9.4	11.6	2.8	3.9	12.8	3.1	3.2	C70-72
Thyroid	7	0.0	0.0	0.0	0.0	0.0	0.9	0.8	0.9	1.0	1.2	4.2	3.8	4.6	11.2	7.8	12.8	1.6	1.6	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	0.9	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
Hodgkin disease	3	0.0	1.0	0.0	0.0	0.9	0.9	1.7	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	6.4	0.6	0.5	C81
Non-Hodgkin lymphoma	40	0.0	0.0	0.0	1.6	2.6	0.9	3.4	4.5	7.7	5.9	14.0	20.7	39.5	56.1	46.8	73.4	9.0	8.9	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	9.3	14.0	3.9	19.1	1.5	1.5	C90
Lymphoid leukemia	5	1.1	1.9	3.6	0.0	0.0	1.7	0.0	0.0	1.0	0.0	0.0	1.9	0.0	0.0	0.0	9.6	1.0	1.1	C91
Myeloid leukemia	5	0.0	0.0	0.9	0.0	1.7	0.0	0.0	0.9	1.0	3.5	2.8	3.8	0.0	2.8	3.9	3.2	1.1	1.1	C92-94
Leukemia unspecified	9	2.1	1.0	0.9	0.0	1.7	0.9	0.8	3.6	1.0	0.0	2.8	0.0	2.3	16.8	3.9	15.9	2.1	2.1	C95
Other and unspecified	42	0.0	0.0	0.0	0.8	0.0	1.7	2.5	2.7	4.8	17.6	16.8	20.7	37.2	33.7	70.3	89.3	9.3	9.2	O&U
All sites	**560**	**7.4**	**7.6**	**10.7**	**5.6**	**13.0**	**17.9**	**33.8**	**59.9**	**78.8**	**139.5**	**218.2**	**284.0**	**450.6**	**581.2**	**858.8**	**1193.0**	**124.6**	**123.1**	**ALL**

Table 3.15.2 Surat Thani (2008), Annual Incidence per 100,000 by Age Group (years) - 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	2.6	0.0	0.0	0.0	9.5	25.1	1.2	0.8	C00
Tongue	7	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.9	1.9	3.3	1.3	5.2	0.0	2.4	3.2	16.0	1.5	1.2	C01-02
Mouth	15	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	1.1	0.0	7.0	6.5	12.1	22.1	48.0	3.2	2.6	C03-06
Salivary glands	4	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.9	1.1	1.3	1.7	6.5	2.4	3.2	2.3	0.8	0.7	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	0.0	0.0	2.4	0.0	2.3	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	2.3	0.1	0.0	C10
Nasopharynx	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	4.4	2.6	1.7	2.2	4.8	0.0	6.9	1.0	0.9	C11
Hypopharynx	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	4.3	0.0	0.0	2.3	0.3	0.3	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
Esophagus	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5.2	4.3	7.2	6.3	25.1	1.6	1.3	C15
Stomach	8	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.7	1.9	4.4	2.6	3.5	4.3	4.8	9.5	9.1	1.8	1.5	C16
Small intestine	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	2.2	4.8	0.0	2.3	0.4	0.3	C17
Colon	23	0.0	0.0	0.0	0.0	0.0	0.9	0.9	3.5	1.9	9.9	7.7	7.0	4.3	24.1	41.1	36.6	5.0	4.2	C18
Rectum	12	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	3.3	8.9	0.0	8.7	9.6	19.0	18.3	2.6	2.2	C19-20
Anus	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	2.3	0.1	0.1	C21
Liver and bile duct	27	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.5	4.7	4.4	11.5	8.7	19.5	19.3	50.6	41.1	5.9	5.0	C22,C24
Gallbladder	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	1.3	0.0	0.0	0.0	3.2	6.9	0.4	0.3	C23
Pancreas	5	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.9	0.0	1.1	2.6	1.7	4.3	4.8	3.2	6.9	1.1	0.9	C25
Nose, sinuses etc.	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	3.2	0.0	0.1	0.1	C30-31
Larynx	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.7	0.0	4.8	0.0	9.1	0.6	0.5	C32
Trachea, Bronchus, and lung	34	0.0	0.0	0.9	0.0	0.0	0.9	1.7	2.7	6.6	9.9	12.8	14.0	23.8	45.8	31.6	48.0	7.5	6.5	C33-34
Other thoracic organs	2	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.9	0.0	0.0	0.0	1.7	2.2	0.0	0.0	2.3	0.4	0.3	C37-38
Bone	1	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.3	0.3	C40-C41
Melanoma of skin	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	2.2	2.4	3.2	0.0	0.3	0.3	C43
Other skin	16	0.0	0.0	0.9	0.0	0.9	0.0	0.0	0.0	2.8	0.0	7.7	5.2	13.0	4.8	15.8	45.7	3.5	2.8	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 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	4	0.0	0.0	0.0	0.9	0.0	0.9	1.7	0.0	0.9	0.0	0.0	3.5	0.0	2.4	0.0	9.1	0.9	0.7	C47,C49
Breast	126	0.0	0.0	0.0	0.0	1.8	4.4	19.9	31.9	63.9	69.4	74.0	85.6	43.3	55.4	41.1	41.1	27.8	23.8	C50
Vulva	2	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	4.6	0.4	0.3	C51
Vagina	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.2	0.2	C52
Cervix uteri	79	0.0	0.0	0.0	0.0	0.0	2.7	11.2	16.8	30.1	34.1	43.4	47.1	43.3	55.4	34.8	54.8	17.4	15.0	C53
Corpus uteri	15	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	4.7	9.9	6.4	15.7	6.5	9.6	12.7	9.1	3.4	3.0	C54
Uterus unspecified	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.8	2.2	0.0	1.7	2.2	2.4	3.2	0.0	0.7	0.6	C55
Ovary	26	0.0	0.0	0.9	0.9	0.9	1.8	5.2	3.5	11.3	11.0	14.0	17.5	19.5	12.1	12.7	6.9	5.8	5.2	C56
Other female genital	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.1	0.1	C57
Placenta	2	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.9	0.0	0.0	0.0	1.7	0.0	2.4	3.2	0.0	0.4	0.4	C58
Kidney	3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.6	5.2	0.0	0.0	6.3	0.0	0.7	0.7	C64
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
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	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	2.2	0.0	6.3	11.4	0.7	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	0.0	0.0	0.0	C68
Eye	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	0.0	0.0	0.1	0.1	C69
Brain, nervous system	14	6.6	4.0	1.9	0.9	0.0	0.9	0.9	4.4	1.9	2.2	3.8	5.2	4.3	7.2	12.7	6.9	3.1	3.3	C70-72
Thyroid	41	0.0	0.0	0.0	0.0	8.1	8.9	5.2	23.1	16.0	16.5	17.9	12.2	13.0	4.8	15.8	13.7	9.0	7.6	C73
Adrenal gland	1	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
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	2	0.0	1.0	0.0	0.0	0.0	0.9	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.4	0.4	C81
Non-Hodgkin lymphoma	23	0.0	0.0	0.9	1.7	0.0	1.8	0.9	3.5	1.9	7.7	8.9	15.7	15.2	16.9	38.0	20.6	5.1	4.6	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	3.8	3.5	6.5	14.5	6.3	9.1	1.6	1.5	C90
Lymphoid leukemia	3	4.4	1.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	1.7	2.2	0.0	0.0	0.0	0.6	0.8	C91
Myeloid leukemia	6	0.0	0.0	0.0	0.0	1.8	0.9	0.9	0.0	0.0	1.1	1.3	0.0	2.2	2.4	12.7	13.7	1.3	1.1	C92-94
Leukemia unspecified	8	1.1	0.0	2.8	1.7	0.0	0.9	1.7	2.7	0.0	0.0	1.3	1.7	6.5	4.8	3.2	6.9	1.7	1.6	C95
Other and unspecified	28	4.4	0.0	0.0	0.9	0.0	1.8	3.5	2.7	2.8	7.7	11.5	14.0	10.8	19.3	28.5	48.0	6.2	5.4	O&U
All sites	**579**	**20.8**	**6.0**	**9.5**	**7.7**	**16.2**	**29.2**	**63.9**	**114.4**	**160.8**	**211.4**	**256.4**	**300.3**	**290.2**	**366.4**	**465.0**	**616.9**	**127.6**	**110.4**	**ALL**

Table 3.15.3 Annual incidence, Surat Thani, 2008

Site	Male						Female						ICD-10
	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	
Lip	1	0.2	0.3	0.3	0.0	0.0	5	0.9	1.2	0.8	0.0	0.1	C00
Tongue	22	3.9	4.8	4.7	0.3	0.6	7	1.2	1.5	1.2	0.1	0.1	C01-02
Mouth	18	3.2	4.0	4.0	0.2	0.4	15	2.5	3.2	2.6	0.1	0.3	C03-06
Salivary glands	2	0.3	0.4	0.4	0.0	0.1	4	0.6	0.8	0.7	0.1	0.1	C07-08
Tonsil	5	1.0	1.2	1.2	0.1	0.2	1	0.1	0.1	0.1	0.0	0.0	C09
Other oropharynx	2	0.3	0.4	0.3	0.0	0.0	0	0.1	0.1	0.0	0.0	0.0	C10
Nasopharynx	11	1.9	2.4	2.2	0.1	0.2	5	0.8	1.0	0.9	0.1	0.1	C11
Hypopharynx	10	1.8	2.3	2.3	0.1	0.2	1	0.2	0.3	0.3	0.0	0.0	C12-13
Pharynx unspecified	2	0.3	0.4	0.3	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C14
Esophagus	34	6.1	7.6	7.7	0.5	0.9	7	1.3	1.6	1.3	0.1	0.1	C15
Stomach	13	2.3	2.9	2.9	0.2	0.3	8	1.4	1.8	1.5	0.1	0.2	C16
Small intestine	3	0.5	0.6	0.6	0.0	0.1	2	0.3	0.4	0.3	0.0	0.0	C17
Colon	27	4.9	6.1	5.9	0.3	0.7	23	3.9	5.0	4.2	0.2	0.5	C18
Rectum	24	4.2	5.3	5.2	0.2	0.6	12	2.0	2.6	2.2	0.1	0.3	C19-20
Anus	0	0.0	0.0	0.0	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C21
Liver and bile duct	67	12.0	14.9	14.3	1.0	1.6	27	4.7	5.9	5.0	0.3	0.6	C22,C24
Gallbladder	1	0.2	0.3	0.3	0.0	0.0	2	0.3	0.4	0.3	0.0	0.0	C23
Pancreas	3	0.6	0.7	0.7	0.0	0.1	5	0.9	1.1	0.9	0.1	0.1	C25
Nose, sinuses etc.	2	0.4	0.4	0.4	0.0	0.1	1	0.1	0.1	0.1	0.0	0.0	C30-31
Larynx	17	3.1	3.9	4.0	0.2	0.5	3	0.5	0.6	0.5	0.0	0.0	C32
Trachea, Bronchus, and lung	68	12.1	15.1	15.2	0.8	2.0	34	5.9	7.5	6.5	0.4	0.8	C33-34
Other thoracic organs	3	0.5	0.6	0.6	0.0	0.1	2	0.3	0.4	0.3	0.0	0.0	C37-38
Bone	2	0.4	0.5	0.5	0.0	0.0	1	0.2	0.3	0.3	0.0	0.0	C40-C41
Melanoma of skin	2	0.4	0.4	0.4	0.0	0.1	1	0.2	0.3	0.3	0.0	0.0	C43
Other skin	15	2.6	3.3	3.1	0.2	0.3	16	2.7	3.5	2.8	0.2	0.3	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi sarcoma	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	3	0.6	0.7	0.7	0.0	0.1	4	0.7	0.9	0.7	0.0	0.1	C47,C49
Breast	3	0.5	0.6	0.5	0.0	0.0	126	21.8	27.8	23.8	2.0	2.5	C50
Vulva							2	0.3	0.4	0.3	0.0	0.0	C51
Vagina							1	0.2	0.2	0.2	0.0	0.0	C52
Cervix uteri							79	13.6	17.4	15.0	1.1	1.6	C53
Corpus uteri							15	2.6	3.4	3.0	0.2	0.3	C54
Uterus unspecified							3	0.6	0.7	0.6	0.0	0.1	C55
Ovary							26	4.5	5.8	5.2	0.4	0.6	C56
Other female genital							0	0.1	0.1	0.1	0.0	0.0	C57
Placenta							2	0.3	0.4	0.4	0.0	0.1	C58
Penis	8	1.4	1.7	1.7	0.1	0.2							C60
Prostate	27	4.9	6.1	6.3	0.2	0.9							C61
Testis	4	0.8	1.0	0.9	0.0	0.1							C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0							C63
Kidney	5	0.8	1.0	1.1	0.1	0.1	3	0.5	0.7	0.7	0.0	0.1	C64
Renal pelvis	0	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	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	C66
Bladder	22	4.0	5.0	4.8	0.2	0.4	3	0.5	0.7	0.5	0.0	0.0	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	0.2	0.2	0.2	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C69
Brain, nervous system	14	2.5	3.1	3.2	0.2	0.3	14	2.4	3.1	3.3	0.2	0.3	C70-72
Thyroid	7	1.3	1.6	1.6	0.1	0.2	41	7.1	9.0	7.6	0.6	0.7	C73
Adrenal gland	0	0.0	0.0	0.0	0.0	0.0	1	0.1	0.1	0.3	0.0	0.0	C74
Other endocrine	0	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	3	0.5	0.6	0.5	0.0	0.0	2	0.3	0.4	0.4	0.0	0.0	C81
Non-Hodgkin lymphoma	40	7.2	9.0	8.9	0.5	1.0	23	4.0	5.1	4.6	0.3	0.6	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	7	1.2	1.5	1.5	0.1	0.2	7	1.3	1.6	1.5	0.1	0.2	C90
Lymphoid leukemia	5	0.8	1.0	1.1	0.1	0.1	3	0.5	0.6	0.8	0.1	0.1	C91
Myeloid leukemia	5	0.9	1.1	1.1	0.1	0.1	6	1.0	1.3	1.1	0.0	0.1	C92-94
Leukemia unspecified	9	1.7	2.1	2.1	0.1	0.2	8	1.3	1.7	1.6	0.1	0.1	C95
Other and unspecified	42	7.5	9.3	9.2	0.5	1.0	28	4.8	6.2	5.4	0.3	0.5	O&U
All sites	**560**	**99.9**	**124.6**	**123.1**	**6.6**	**13.8**	**579**	**100.0**	**127.6**	**110.4**	**7.4**	**11.6**	**ALL**

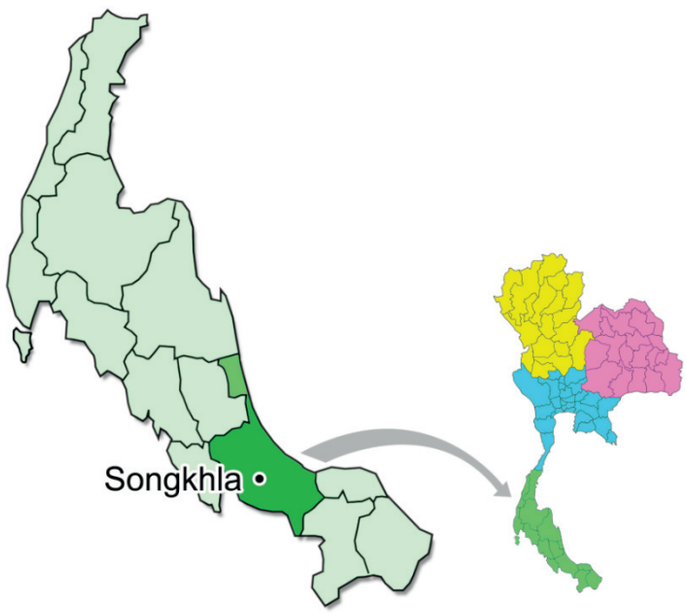
Table 3.15.4 Percentage of morphologically verified and death certificate only cases, Surat Thani, 2008

Site	Male			Female			ICD-10
	Cases 3 Years	%MV	%DCO	Cases 3 Years	%MV	%DCO	
Oral cavity	128	89.8	0.8	91	91.2	0.0	C00-C08
Oropharynx, etc	26	88.5	7.7	3	100.0	0.0	C09-C10;C14
Nasopharynx	32	84.4	3.1	14	78.6	7.1	C11
Hypopharynx	31	93.5	0.0	4	100.0	0.0	C12-C13
Oesophagus	103	91.3	6.8	22	72.7	9.1	C15
Stomach	39	79.5	7.7	25	100.0	0.0	C16
Small intestine	8	87.5	0.0	5	100.0	0.0	C17
Colon and rectum	153	86.3	3.3	105	81.9	7.6	C18-C21
Liver and bile duct	201	30.8	32.8	81	33.3	30.9	C22;C24
Gallbladder	4	75.0	0.0	6	50.0	16.7	C23
Pancreas	10	40.0	10.0	15	60.0	13.3	C25
Nose, sinuses etc	6	100.0	0.0	2	50.0	0.0	C30-C31
Larynx	52	84.6	1.9	8	62.5	12.5	C32
Bronchus, lung	203	65.5	20.2	102	63.7	20.6	C33-C34
Other thoracic organs	8	50.0	12.5	5	80.0	0.0	C37-C38
Bone	7	71.4	14.3	4	100.0	0.0	C40-C41
Melanoma of skin	6	100.0	0.0	4	75.0	25.0	C43
Other skin	44	97.7	2.3	47	95.7	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	10	90.0	10.0	12	91.7	0.0	C47,C49
Breast	8	87.5	12.5	378	84.7	2.9	C50
Vulva				5	80.0	0.0	C51
Vagina				3	100.0	0.0	C52
Cervix uteri				237	85.7	6.3	C53
Corpus uteri				46	97.8	0.0	C54
Uterus unspecified				10	60.0	40.0	C55
Ovary				79	83.5	6.3	C56
Other female genital				1	100.0	0.0	C57
Placenta				6	33.3	0.0	C58
Penis	23	95.7	0.0				C60
Prostate	82	82.9	4.9				C61
Testis	13	92.3	0.0				C62
Other male genital organs	0	0.0	0.0				C63
Kidney	14	57.1	21.4	9	66.7	11.1	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	67	89.6	1.5	9	77.8	11.1	C67
Other urinary organs	0	0.0	0.0	0	0.0	0.0	C68
Eye	3	100.0	0.0	1	100.0	0.0	C69
Brain, nervous system	42	57.1	31.0	42	57.1	33.3	C70-72
Thyroid	22	72.7	4.5	123	80.5	1.6	C73
Adrenal gland	0	0.0	0.0	2	100.0	0.0	C74
Other endocrine	1	100.0	0.0	0	0.0	0.0	C75
Hodgkin's disease	8	100.0	0.0	6	100.0	0.0	C81
Non-Hodgkin lymph	121	92.6	7.4	70	92.9	7.1	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	20	100.0	0.0	22	100.0	0.0	C90
Leukemia	57	70.2	28.1	49	77.6	22.4	C91-C95
Other and unspecified	126	41.3	46.0	84	34.5	42.9	O&U
All site	**1,680**	**73.3**	**14.2**	**1,736**	**78.2**	**9.6**	**ALL**

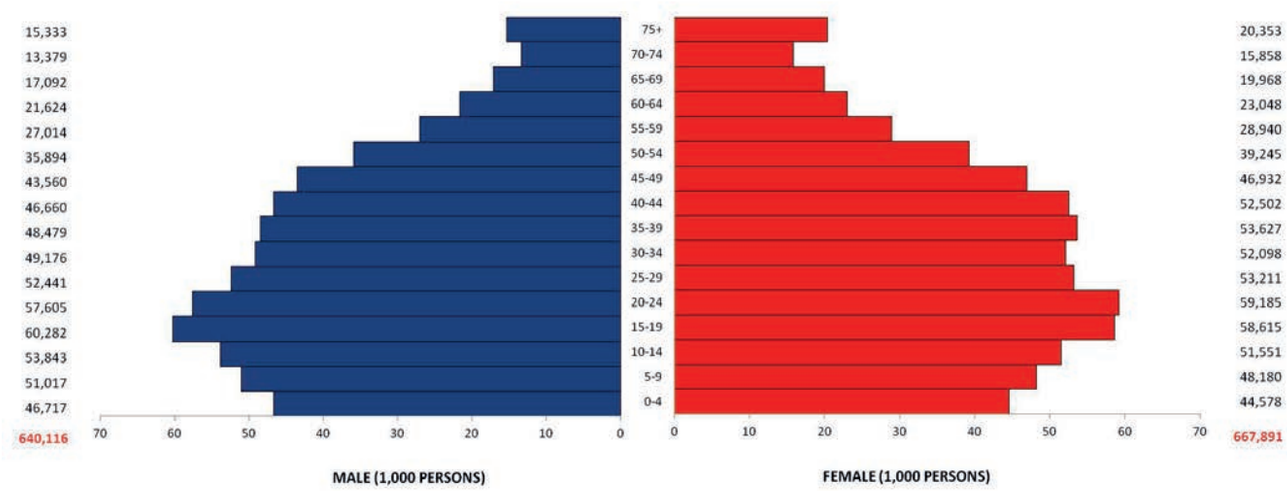
Songkhla Cancer Registry

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 kilometres and Songkhla registry covers 16 districts with a population estimated in the year 2008 of 1,308,007. About 80% of the population is Buddhist, and nearly 20% are Moslems. 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 centres of the south of Thailand.



Population pyramid, Songkhla, 2008



Cancer care facilities

The government of Thailand predominantly provides general health care in the region. There are three hospitals with over 500 beds, 13 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

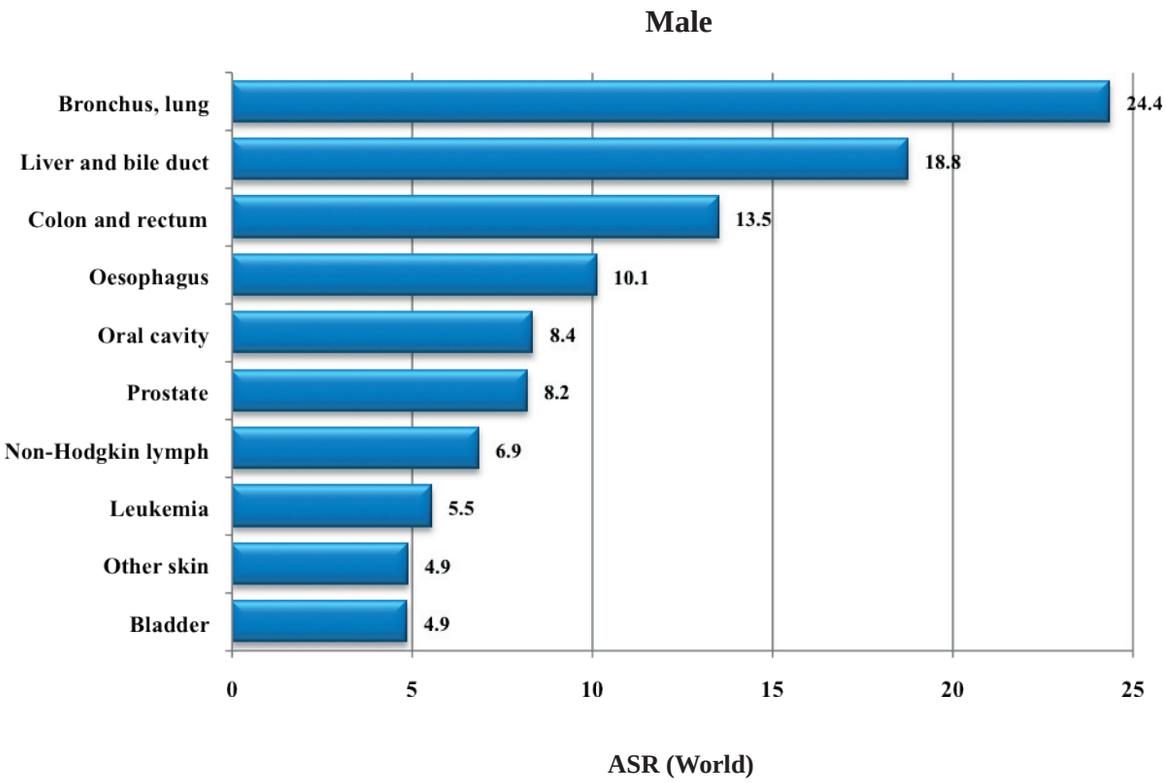
The registry is located within the Faculty of Medicine, Prince of Songkla University. The registry is staffed by three part-time medical doctors, a full-time nurse as a registrar and four full-time workers. The Songkhla registry undertakes active case finding from 23 sources of data consisting of Songklanagarind hospital, Hat Yai hospital, Songkhla hospital, community hospitals, private hospitals, special hospitals, provincial health office, and the population registration office of the province. 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 Moslems 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 2008, 968 were males and 882 were females, making 1,850 for both sexes. The age - standardized incidence rate (ASR) of all cancer sites in males was 144.4 per 100,000 in with lung cancer ranking first (ASR = 24.4) followed by liver and bile duct (ASR = 18.8), and colon and rectum (ASR = 13.5). The ASR of all cancer in females was 114.3, the three leading sites being breast (ASR = 23.7), cervix (ASR = 14.1) and colon and rectum (ASR = 10.1).

Figure 3.16 Leading cancer in Songkhla, 2008



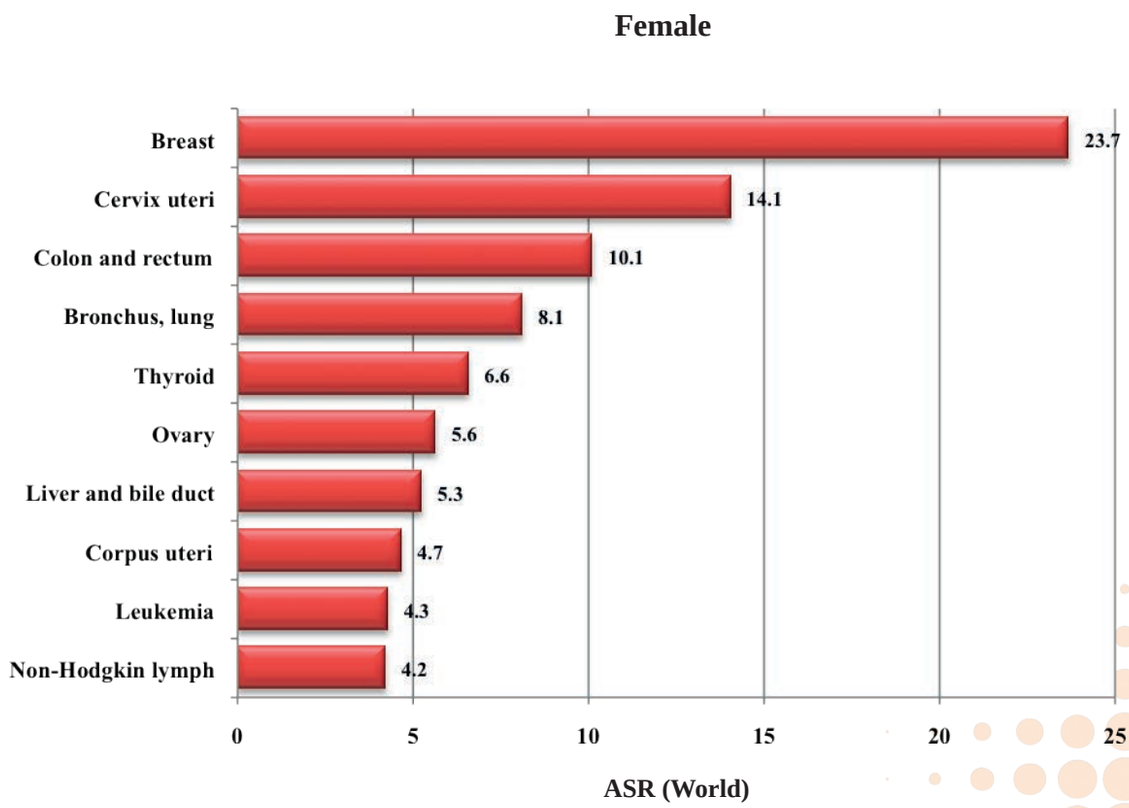


Table 3.16.1 Songkhla (2008), Annual Incidence per 100,000 by Age Group (years) - Male

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	0	0.0	0.0	0.0	0.0	0.0	0.0	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
Tongue	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	3.6	7.7	6.5	6.2	24.7	23.4	37.4	37.0	4.7	4.6	C01-02
Mouth	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1	3.8	4.6	8.6	17.0	13.7	24.9	39.1	3.5	3.3	C03-06
Salivary glands	3	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.7	0.7	0.0	0.0	2.5	0.0	2.0	2.5	4.3	0.5	0.4	C07-08
Tonsil	11	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1	0.7	3.1	3.7	4.9	4.6	5.9	10.0	13.0	1.7	1.6	C09
Other oropharynx	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.9	4.9	6.2	7.8	10.0	19.6	1.4	1.4	C10
Nasopharynx	21	0.0	0.0	0.6	0.6	0.0	0.0	2.0	2.1	5.7	6.9	12.1	7.4	3.1	9.8	7.5	19.6	3.3	3.0	C11
Hypopharynx	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.1	4.6	9.9	10.8	15.6	17.4	23.9	2.7	2.6	C12-13
Pharynx unspecified	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.5	1.9	1.2	1.5	2.0	5.0	4.3	0.6	0.6	C14
Esophagus	66	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	4.3	9.9	19.5	25.9	57.0	58.5	54.8	102.2	10.4	10.1	C15
Stomach	19	0.0	0.0	0.0	0.0	0.6	0.6	2.0	0.0	0.0	2.3	8.4	2.5	9.2	19.5	12.5	34.8	2.9	2.8	C16
Small intestine	2	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.8	0.0	0.0	0.0	2.0	2.5	2.2	0.3	0.2	C17
Colon	49	0.0	0.0	0.0	0.0	0.6	3.2	2.0	4.1	6.4	6.1	11.1	21.0	29.3	41.0	44.8	60.9	7.7	7.3	C18
Rectum	40	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	2.1	3.8	11.1	21.0	10.8	42.9	42.4	71.7	6.2	5.9	C19-20
Anus	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	1.2	0.0	2.0	2.5	2.2	0.3	0.3	C21
Liver and bile duct	126	0.7	0.0	0.0	0.0	0.0	1.3	2.7	13.1	15.0	34.4	49.2	55.5	72.5	93.6	89.7	123.9	19.7	18.8	C22,C24
Gallbladder	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.5	0.0	0.0	3.1	2.0	0.0	13.0	0.6	0.6	C23
Pancreas	13	0.0	0.0	0.0	0.0	0.0	0.6	2.7	0.7	1.4	3.8	3.7	6.2	3.1	5.9	17.4	8.7	2.0	1.8	C25
Nose, sinuses etc.	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.9	2.5	4.6	3.9	2.5	2.2	0.6	0.6	C30-31
Larynx	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.1	3.1	4.6	9.9	13.9	9.8	32.4	30.4	3.3	3.1	C32
Trachea, Bronchus, and lung	163	0.0	0.0	0.0	0.0	0.0	1.9	4.7	7.6	12.9	16.8	38.1	53.1	74.0	171.6	201.8	276.1	25.5	24.4	C33-34
Other thoracic organs	2	0.0	0.0	0.0	0.6	0.6	0.6	0.7	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	C37-38
Bone	3	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.7	0.0	0.8	1.9	0.0	1.5	2.0	0.0	0.0	0.4	0.4	C40-C41
Melanoma of skin	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	2.5	3.1	5.9	5.0	6.5	0.7	0.7	C43
Other skin	34	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4	6.1	7.4	7.4	10.8	23.4	29.9	95.7	5.3	4.9	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 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	9	0.7	0.0	0.0	1.1	0.6	1.3	0.7	2.1	4.3	0.8	1.9	2.5	3.1	0.0	0.0	6.5	1.4	1.2	C47,C49
Breast	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.9	0.0	0.0	0.0	2.5	0.0	0.2	0.1	C50
Penis	12	0.0	0.0	0.0	0.0	0.6	0.6	1.4	3.4	2.1	0.8	5.6	1.2	6.2	5.9	7.5	13.0	1.9	1.7	C60
Prostate	56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	7.4	17.0	54.6	72.3	200.0	8.8	8.2	C61
Testis	2	0.7	0.0	0.0	0.0	0.6	0.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	C62
Other male genital organs	1	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.2	0.0	0.0	0.0	0.0	0.2	0.1	C63
Kidney	12	1.4	0.0	0.0	0.0	0.6	0.0	0.0	0.7	2.1	2.3	5.6	6.2	1.5	7.8	10.0	10.9	1.8	1.8	C64
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	2.5	0.0	0.1	0.0	C65
Ureter	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.1	0.1	C66
Bladder	33	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	0.0	3.1	4.6	8.6	13.9	37.1	37.4	78.3	5.1	4.9	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	2.2	0.1	0.0	C68
Eye	3	1.4	1.3	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.9	1.2	1.5	0.0	0.0	2.2	0.5	0.5	C69
Brain, nervous system	18	0.7	0.7	0.6	2.8	1.2	1.3	0.7	2.8	1.4	5.4	3.7	4.9	3.1	9.8	12.5	15.2	2.8	2.6	C70-72
Thyroid	14	0.0	0.0	0.6	1.7	0.6	1.9	0.0	1.4	4.3	3.8	4.6	0.0	10.8	3.9	5.0	13.0	2.2	2.1	C73
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	0.1	0.1	C74
Other endocrine	1	0.0	0.0	0.0	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	C75
Hodgkin disease	5	0.0	0.7	0.6	1.1	1.7	0.0	0.0	0.7	1.4	1.5	1.9	0.0	0.0	3.9	0.0	0.0	0.8	0.8	C81
Non-Hodgkin lymphoma	46	0.0	1.3	1.9	1.1	2.3	1.9	4.1	3.4	4.3	10.7	10.2	19.7	24.7	33.2	37.4	37.0	7.1	6.9	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	2.8	3.7	4.6	2.0	14.9	10.9	1.1	1.1	C90
Lymphoid leukemia	12	4.3	2.6	1.2	1.1	0.6	0.0	0.7	0.0	0.7	0.8	1.9	1.2	6.2	5.9	7.5	8.7	1.8	2.0	C91
Myeloid leukemia	17	2.1	0.0	0.6	1.1	2.3	0.0	1.4	0.7	4.3	1.5	4.6	3.7	3.1	9.8	10.0	26.1	2.7	2.6	C92-94
Leukemia unspecified	6	0.7	1.3	0.0	0.0	0.0	0.6	0.0	0.7	1.4	2.3	0.9	1.2	0.0	0.0	7.5	6.5	0.9	0.9	C95
Other and unspecified	43	0.7	0.0	0.6	1.1	0.0	3.8	1.4	2.1	7.1	9.9	8.4	16.0	23.1	37.1	37.4	45.7	6.8	6.5	O&U
All sites	**968**	**14.3**	**7.8**	**8.0**	**13.8**	**12.7**	**21.6**	**33.2**	**59.8**	**98.6**	**160.7**	**252.6**	**334.4**	**479.4**	**774.2**	**916.9**	**1467.4**	**151.2**	**144.4**	**ALL**

Table 3.16.2 Songkhla (2008), Annual Incidence per 100,000 by Age Group (years) - 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	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	1.4	0.0	4.2	6.6	0.3	0.3	C00
Tongue	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.4	1.7	1.2	4.3	3.3	0.0	9.8	0.9	0.8	C01-02
Mouth	11	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.6	1.3	0.7	1.7	1.2	2.9	5.0	10.5	26.2	1.7	1.3	C03-06
Salivary glands	4	0.0	0.0	0.0	0.0	0.6	0.0	0.0	1.9	1.9	0.0	1.7	2.3	0.0	1.7	0.0	1.6	0.6	0.5	C07-08
Tonsil	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	1.4	1.7	2.1	0.0	0.2	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	0.0	0.0	3.3	0.1	0.1	C10
Nasopharynx	7	0.0	0.0	0.0	0.6	0.0	0.0	1.9	0.6	1.9	1.4	4.2	2.3	2.9	0.0	2.1	3.3	1.1	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	0.0	0.0	0.0	0.0	2.1	1.6	0.1	0.1	C12-13
Pharynx unspecified	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	0.0	1.7	0.0	1.6	0.1	0.1	C14
Esophagus	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.4	2.3	4.3	5.0	23.1	21.3	1.8	1.5	C15
Stomach	10	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.9	1.9	1.4	1.7	3.5	4.3	3.3	14.7	8.2	1.5	1.3	C16
Small intestine	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	0.0	3.3	2.1	1.6	0.2	0.2	C17
Colon	49	0.0	0.0	0.0	0.6	0.0	0.6	2.6	3.1	4.4	10.7	16.1	17.3	18.8	28.4	16.8	67.1	7.3	6.1	C18
Rectum	29	0.0	0.0	0.0	0.0	0.6	0.0	0.6	1.2	3.2	4.3	5.9	11.5	11.6	26.7	33.6	22.9	4.3	3.8	C19-20
Anus	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.8	1.2	0.0	3.3	0.0	0.0	0.2	0.2	C21
Liver and bile duct	41	0.7	0.0	0.0	0.0	0.0	0.0	0.6	3.1	1.9	5.0	8.5	11.5	20.2	28.4	39.9	59.0	6.1	5.3	C22,C24
Gallbladder	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	1.2	0.0	0.0	4.2	6.6	0.4	0.3	C23
Pancreas	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.5	2.3	5.8	8.3	25.2	11.5	1.7	1.5	C25
Nose, sinuses etc.	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	1.6	0.1	0.1	C30-31
Larynx	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	1.4	0.0	6.3	1.6	0.3	0.3	C32
Trachea, Bronchus, and lung	65	0.0	0.0	0.0	0.0	0.0	0.6	3.2	1.9	7.0	5.7	15.3	17.3	26.0	43.4	52.5	108.1	9.8	8.1	C33-34
Other thoracic organs	1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.1	0.1	C37-38
Bone	6	1.5	0.7	0.6	2.3	0.0	1.3	0.0	0.0	0.0	0.7	2.5	0.0	1.4	0.0	4.2	0.0	0.8	0.9	C40-C41
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.8	0.0	1.4	0.0	2.1	1.6	0.2	0.2	C43
Other skin	33	0.0	0.0	0.6	0.6	0.0	0.6	0.6	1.9	1.3	6.4	0.0	4.6	13.0	18.4	33.6	65.5	4.9	4.0	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 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	7	0.7	0.0	0.0	1.1	0.0	1.9	0.0	0.6	1.3	5.0	0.8	0.0	2.9	0.0	0.0	1.6	1.0	0.9	C47,C49
Breast	184	0.0	0.0	0.0	0.0	0.6	3.1	15.4	39.2	32.4	78.8	74.7	99.1	57.9	51.7	39.9	54.0	27.5	23.7	C50
Vulva	2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.3	0.0	0.0	0.0	0.0	0.0	4.2	1.6	0.3	0.2	C51
Vagina	1	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	2.1	3.3	0.2	0.1	C52
Cervix uteri	110	0.0	0.0	0.0	0.0	0.0	1.9	11.5	19.9	23.5	35.5	36.5	39.2	50.6	35.1	39.9	60.6	16.4	14.1	C53
Corpus uteri	34	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.9	2.5	9.9	14.4	27.6	23.1	13.4	18.9	11.5	5.1	4.7	C54
Uterus unspecified	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.8	1.2	4.3	0.0	2.1	0.0	0.4	0.4	C55
Ovary	42	0.0	0.7	0.0	0.6	2.3	2.5	3.2	3.1	7.0	10.7	24.6	17.3	20.2	16.7	18.9	4.9	6.3	5.6	C56
Other female genital	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	0.0	0.0	0.0	C57
Placenta	3	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.9	1.3	0.7	0.8	0.0	0.0	0.0	0.0	0.0	0.4	0.4	C58
Kidney	7	0.0	0.0	0.0	0.0	0.6	0.0	0.6	0.6	1.9	0.7	1.7	2.3	5.8	6.7	2.1	1.6	1.0	1.0	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	1.7	0.0	3.3	0.1	0.1	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	1.4	0.0	0.0	1.6	0.1	0.1	C66
Bladder	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	2.3	1.4	3.3	6.3	16.4	1.1	0.9	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	1.5	0.0	0.0	0.6	0.0	0.0	0.6	0.0	0.0	1.4	0.0	0.0	0.0	0.0	4.2	0.0	0.4	0.4	C69
Brain, nervous system	14	0.7	2.1	1.9	1.1	0.6	0.6	0.6	2.5	3.2	2.8	1.7	4.6	4.3	5.0	4.2	3.3	2.0	2.0	C70-72
Thyroid	51	0.0	0.7	1.9	1.7	3.9	7.5	9.0	10.6	10.8	11.4	12.7	12.7	5.8	21.7	18.9	18.0	7.6	6.6	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	1.7	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	4	0.0	0.7	0.0	0.6	1.1	0.6	0.0	0.0	0.6	1.4	0.8	1.2	0.0	0.0	0.0	1.6	0.5	0.5	C81
Non-Hodgkin lymphoma	32	0.7	0.7	0.0	1.1	1.1	0.6	2.6	1.2	2.5	3.6	5.9	12.7	15.9	16.7	31.5	32.8	4.8	4.2	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.8	2.3	10.1	3.3	4.2	9.8	1.1	1.0	C90
Lymphoid leukemia	6	5.2	2.1	0.0	0.6	0.0	0.0	0.0	0.6	0.6	0.0	0.8	1.2	0.0	1.7	2.1	0.0	0.8	1.1	C91
Myeloid leukemia	16	2.2	0.0	0.0	0.6	0.6	1.9	1.9	1.2	3.8	3.6	1.7	3.5	4.3	11.7	6.3	8.2	2.3	2.2	C92-94
Leukemia unspecified	7	0.7	0.0	0.6	0.0	0.0	0.6	0.0	0.0	1.3	1.4	2.5	0.0	0.0	3.3	10.5	8.2	1.1	1.0	C95
Other and unspecified	38	0.0	0.0	0.0	0.6	0.0	1.3	1.3	3.1	4.4	3.6	5.9	8.1	17.4	25.0	37.8	55.7	5.7	4.8	O&U
All sites	**882**	**15.0**	**7.6**	**5.8**	**12.5**	**12.4**	**27.6**	**57.6**	**105.7**	**126.3**	**211.7**	**258.2**	**316.7**	**348.5**	**400.6**	**533.9**	**730.4**	**132.0**	**114.3**	**ALL**

Table 3.16.3 Annual incidence, Songkhla, 2008

Site	Male						Female						ICD-10
	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	
Lip	0	0.0	0.0	0.0	0.0	0.0	2	0.3	0.3	0.3	0.0	0.0	C00
Tongue	30	3.1	4.7	4.6	0.3	0.6	6	0.7	0.9	0.8	0.0	0.1	C01-02
Mouth	22	2.3	3.5	3.3	0.2	0.4	11	1.3	1.7	1.3	0.0	0.1	C03-06
Salivary glands	3	0.3	0.5	0.4	0.0	0.0	4	0.5	0.6	0.5	0.0	0.1	C07-08
Tonsil	11	1.1	1.7	1.6	0.1	0.2	1	0.2	0.2	0.2	0.0	0.0	C09
Other oropharynx	9	0.9	1.4	1.4	0.1	0.2	1	0.1	0.1	0.1	0.0	0.0	C10
Nasopharynx	21	2.2	3.3	3.0	0.2	0.3	7	0.8	1.1	0.9	0.1	0.1	C11
Hypopharynx	17	1.8	2.7	2.6	0.1	0.3	1	0.1	0.1	0.1	0.0	0.0	C12-13
Pharynx unspecified	4	0.4	0.6	0.6	0.0	0.1	1	0.1	0.1	0.1	0.0	0.0	C14
Esophagus	66	6.9	10.4	10.1	0.6	1.2	12	1.4	1.8	1.5	0.1	0.2	C15
Stomach	19	1.9	2.9	2.8	0.1	0.3	10	1.2	1.5	1.3	0.1	0.2	C16
Small intestine	2	0.2	0.3	0.2	0.0	0.0	2	0.2	0.2	0.2	0.0	0.0	C17
Colon	49	5.1	7.7	7.3	0.4	0.8	49	5.5	7.3	6.1	0.4	0.6	C18
Rectum	40	4.1	6.2	5.9	0.3	0.7	29	3.3	4.3	3.8	0.2	0.5	C19-20
Anus	2	0.2	0.3	0.3	0.0	0.0	2	0.2	0.2	0.2	0.0	0.0	C21
Liver and bile duct	126	13.0	19.7	18.8	1.2	2.1	41	4.7	6.1	5.3	0.3	0.6	C22,C24
Gallbladder	4	0.4	0.6	0.6	0.0	0.0	3	0.3	0.4	0.3	0.0	0.0	C23
Pancreas	13	1.3	2.0	1.8	0.1	0.2	11	1.3	1.7	1.5	0.1	0.2	C25
Nose, sinuses etc.	4	0.4	0.6	0.6	0.0	0.1	1	0.1	0.1	0.1	0.0	0.0	C30-31
Larynx	21	2.2	3.3	3.1	0.2	0.4	2	0.2	0.3	0.3	0.0	0.0	C32
Trachea, Bronchus, and lung	163	16.8	25.5	24.4	1.0	2.9	65	7.4	9.8	8.1	0.4	0.9	C33-34
Other thoracic organs	2	0.2	0.3	0.2	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C37-38
Bone	3	0.3	0.4	0.4	0.0	0.0	6	0.6	0.8	0.9	0.1	0.1	C40-C41
Melanoma of skin	5	0.5	0.7	0.7	0.0	0.1	2	0.2	0.2	0.2	0.0	0.0	C43
Other skin	34	3.5	5.3	4.9	0.2	0.4	33	3.7	4.9	4.0	0.1	0.4	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi sarcoma	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	9	0.9	1.4	1.2	0.1	0.1	7	0.8	1.0	0.9	0.1	0.1	C47,C49
Breast	1	0.1	0.2	0.1	0.0	0.0	184	20.9	27.5	23.7	2.0	2.5	C50
Vulva							2	0.2	0.3	0.2	0.0	0.0	C51
Vagina							1	0.2	0.2	0.1	0.0	0.0	C52
Cervix uteri							110	12.4	16.4	14.1	1.1	1.5	C53
Corpus uteri							34	3.9	5.1	4.7	0.4	0.6	C54
Uterus unspecified							3	0.3	0.4	0.4	0.0	0.0	C55
Ovary							42	4.8	6.3	5.6	0.5	0.6	C56
Other female genital							0	0.0	0.0	0.0	0.0	0.0	C57
Placenta							3	0.3	0.4	0.4	0.0	0.0	C58
Penis	12	1.2	1.9	1.7	0.1	0.2							C60
Prostate	56	5.8	8.8	8.2	0.1	0.8							C61
Testis	2	0.2	0.3	0.3	0.0	0.0							C62
Other male genital organs	1	0.1	0.2	0.1	0.0	0.0							C63
Kidney	12	1.2	1.8	1.8	0.1	0.2	7	0.8	1.0	1.0	0.1	0.1	C64
Renal pelvis	0	0.0	0.1	0.0	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C65
Ureter	1	0.1	0.1	0.1	0.0	0.0	1	0.1	0.1	0.1	0.0	0.0	C66
Bladder	33	3.4	5.1	4.9	0.2	0.5	7	0.8	1.1	0.9	0.0	0.1	C67
Other urinary organs	0	0.0	0.1	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C68
Eye	3	0.3	0.5	0.5	0.0	0.0	3	0.3	0.4	0.4	0.0	0.0	C69
Brain, nervous system	18	1.8	2.8	2.6	0.1	0.3	14	1.6	2.0	2.0	0.1	0.2	C70-72
Thyroid	14	1.5	2.2	2.1	0.1	0.2	51	5.8	7.6	6.6	0.4	0.6	C73
Adrenal gland	0	0.0	0.1	0.1	0.0	0.0	0	0.0	0.0	0.1	0.0	0.0	C74
Other endocrine	1	0.1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	5	0.6	0.8	0.8	0.0	0.1	4	0.4	0.5	0.5	0.0	0.0	C81
Non-Hodgkin lymphoma	46	4.7	7.1	6.9	0.4	0.8	32	3.6	4.8	4.2	0.2	0.5	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	7	0.8	1.1	1.1	0.1	0.1	7	0.8	1.1	1.0	0.1	0.1	C90
Lymphoid leukemia	12	1.2	1.8	2.0	0.1	0.2	6	0.6	0.8	1.1	0.1	0.1	C91
Myeloid leukemia	17	1.8	2.7	2.6	0.1	0.2	16	1.8	2.3	2.2	0.1	0.2	C92-94
Leukemia unspecified	6	0.6	0.9	0.9	0.0	0.1	7	0.8	1.1	1.0	0.0	0.1	C95
Other and unspecified	43	4.5	6.8	6.5	0.4	0.7	38	4.3	5.7	4.8	0.2	0.5	O&U
All sites	**968**	**100.0**	**151.2**	**144.4**	**7.5**	**15.9**	**882**	**100.0**	**132.0**	**114.3**	**7.5**	**12.2**	**ALL**

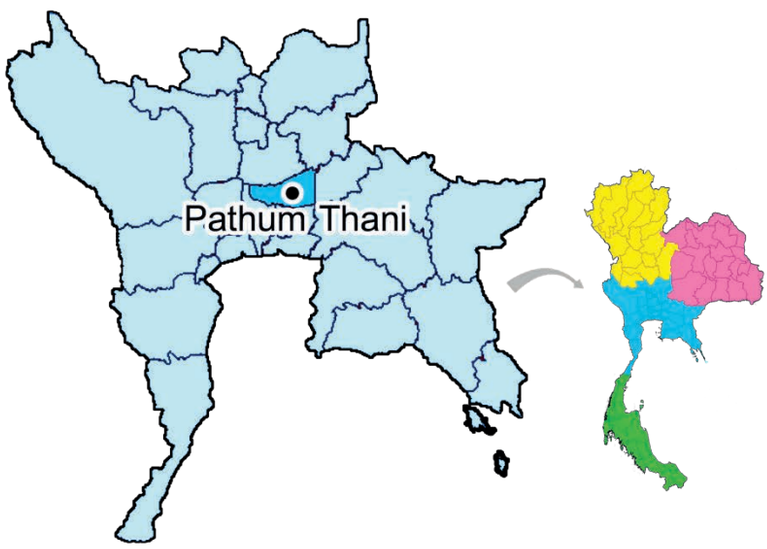
Table 3.16.4 Percentage of morphologically verified and death certificate only cases, Songkhla, 2008

Site	Male			Female			ICD-10
	Cases 3 Years	%MV	%DCO	Cases 3 Years	%MV	%DCO	
Oral cavity	167	97.6	0.0	72	93.1	0.0	C00-C08
Oropharynx, etc	72	91.7	6.9	9	100.0	0.0	C09-C10,C14
Nasopharynx	63	93.7	0.0	22	90.9	0.0	C11
Hypopharynx	51	90.2	0.0	2	50.0	0.0	C12-C13
Oesophagus	199	87.9	2.5	37	91.9	2.7	C15
Stomach	56	92.9	1.8	31	80.6	3.2	C16
Small intestine	5	80.0	20.0	5	80.0	0.0	C17
Colon and rectum	272	90.1	2.2	237	93.2	1.7	C18-C21
Liver and bile duct	378	19.3	6.9	123	26.0	7.3	C22,C24
Gallbladder	12	33.3	0.0	8	50.0	12.5	C23
Pancreas	38	28.9	5.3	34	47.1	0.0	C25
Nose, sinuses etc	12	83.3	0.0	2	100.0	0.0	C30-C31
Larynx	63	87.3	1.6	6	83.3	16.7	C32
Bronchus, lung	489	69.9	6.7	196	73.5	8.2	C33-C34
Other thoracic organs	5	80.0	0.0	2	100.0	0.0	C37-C38
Bone	8	87.5	0.0	17	76.5	0.0	C40-C41
Melanoma of skin	14	100.0	0.0	5	100.0	0.0	C43
Other skin	102	99.0	0.0	98	98.0	1.0	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	26	88.5	0.0	20	100.0	0.0	C47,C49
Breast	3	100.0	0.0	552	96.7	1.1	C50
Vulva				6	100.0	0.0	C51
Vagina				4	100.0	0.0	C52
Cervix uteri				329	97.3	1.2	C53
Corpus uteri				103	95.1	1.0	C54
Uterus unspecified				8	87.5	0.0	C55
Ovary				126	89.7	0.8	C56
Other female genital				1	100.0	0.0	C57
Placenta				9	33.3	0.0	C58
Penis	36	94.4	0.0				C60
Prostate	169	87.0	2.4				C61
Testis	6	100.0	0.0				C62
Other male genital organs	3	100.0	0.0				C63
Kidney	35	71.4	0.0	21	90.5	0.0	C64
Renal pelvis	1	100.0	0.0	3	66.7	0.0	C65
Ureter	2	100.0	0.0	2	100.0	0.0	C66
Bladder	98	87.8	2.0	22	95.5	0.0	C67
Other urinary organs	1	100.0	0.0	0	0.0	0.0	C68
Eye	9	77.8	0.0	8	75.0	0.0	C69
Brain, nervous system	53	58.5	15.1	41	51.2	9.8	C70-72
Thyroid	43	97.7	0.0	153	96.1	0.7	C73
Adrenal gland	1	100.0	0.0	1	100.0	0.0	C74
Other endocrine	2	50.0	0.0	0	0.0	0.0	C75
Hodgkin's disease	16	100.0	0.0	11	100.0	0.0	C81
Non-Hodgkin lymph	137	99.3	0.7	96	100.0	0.0	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	22	100.0	0.0	22	100.0	0.0	C90
Leukemia	105	96.2	3.8	86	95.3	4.7	C91-C95
Other and unspecified	130	47.7	27.7	115	46.1	23.5	O&U
All site	**2,904**	**75.1**	**4.6**	**2,645**	**86.5**	**3.1**	**ALL**

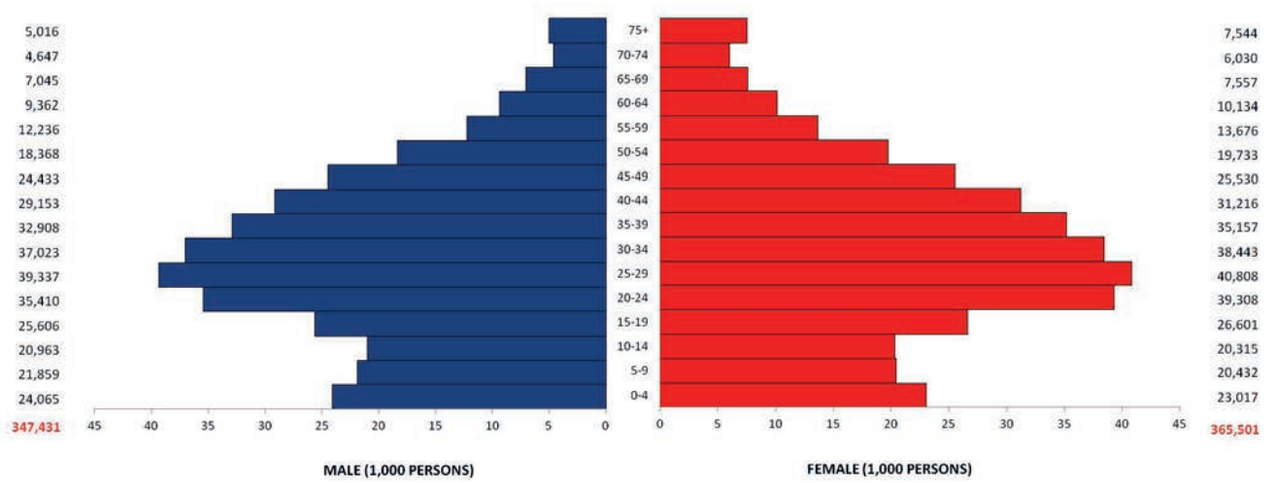
Pathum Thani Cancer Registry

Registration area

Pathum Thani is one of the central provinces of Thailand. Neighboring provinces are Ayuthaya, Saraburi, Nakhon Nayok, Bangkok and Nonthaburi. The province is located directly north of Bangkok and is part of the Bangkok metropolis. It cover an area of 1,525 square kilometers with a population of 712,932. Since Pathum Thani has a number of industrial parks and many research agencies, the province is considered as an “Education and Technology Hub” of the area.



Population pyramid, Pathum Thani, 2008



Cancer care facilities

There are 10 government hospitals, 8 private hospitals and 1 university hospital. The Maha Vajiralongkorn Cancer Center is the only place that provides radiotherapy services in the province. Patients suspected to have cancer in the health care system and community hospitals are refereed to Bangkok or neighboring provinces.

Registry procedures

The population-based cancer registry of Pathum Thani was set up in 2004. The source information are all public and private hospitals in the province. Data is collected by passive method. The registrar visit all registered sites by regular schedule.

Summary of results

New cases registered in 2008, 194 were males and 331 were females, making 525 for both sexes. The age - standardized incidence rate (ASR) of all cancers in males was 65.0 per 100,000, with colon and rectum ranking as the first site (ASR = 12.1), followed by lung (ASR = 11.8) and liver and bile duct (ASR = 5.4). The ASR of all sites in females was 86.2, the three leading cancers being breast (ASR = 24.5), cervix (ASR = 12.9) and colon and rectum (ASR = 11.3).

Clarification

Since Pathum Thani Cancer Registry just commenced collective of population based data in 2004, the presently available statistics are very much on underestimate of the actual situation. Furthermore, only the cases diagnosed and clinically treated in Pathum Thani province are included, many patients travel from Pathum Thani, located just to the north of Bangkok, to the metropolis to take advantage of the facilities there. It should be also noted that the DCO figure is zero, reflecting the absence of reliable death statistics in the province. In the next phase, these cases will be matched with cases collected from hospitals in Bangkok accurate statistics will be produced.

Figure 3.17 Leading cancer in Pathum Thani, 2008

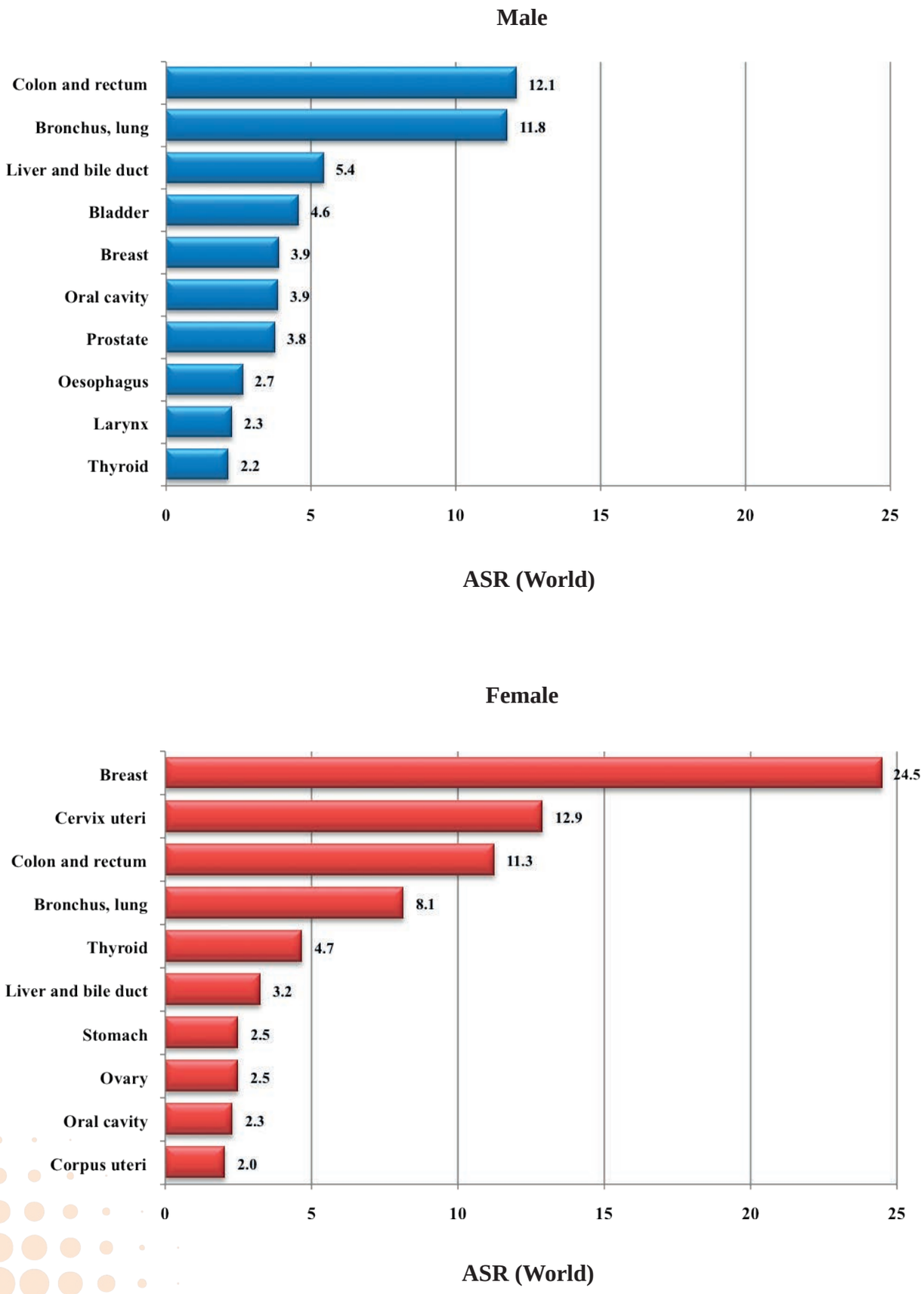


Table 3.17.1 Pathum Thani (2008), Annual Incidence per 100,000 by Age Group (years) - Male

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	0	0.0	0.0	0.0	0.0	0.0	0.0	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
Tongue	7	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.1	1.4	10.9	5.4	0.0	14.2	14.3	26.6	1.9	2.2	C01-02
Mouth	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.1	3.6	13.6	3.6	9.5	7.2	0.0	1.4	1.6	C03-06
Salivary glands	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	0.0	0.1	0.1	C07-08
Tonsil	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.4	5.4	0.0	3.6	4.7	7.2	6.6	0.9	1.0	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	4.7	7.2	0.0	0.2	0.3	C10
Nasopharynx	5	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.0	0.0	1.4	1.8	10.9	3.6	4.7	21.5	13.3	1.5	1.8	C11
Hypopharynx	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	8.2	3.6	0.0	0.0	6.6	0.6	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
Esophagus	8	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	3.4	8.2	5.4	5.4	3.6	18.9	14.3	19.9	2.4	2.7	C15
Stomach	5	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.0	2.3	1.4	5.4	0.0	7.1	9.5	7.2	13.3	1.4	1.6	C16
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	0.0	0.0	0.0	0.0	0.0	C17
Colon	22	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.0	9.1	9.5	12.7	10.9	21.4	56.8	57.4	79.7	6.4	7.7	C18
Rectum	12	0.0	0.0	0.0	0.0	0.0	0.8	0.9	1.0	1.1	2.7	7.3	13.6	17.8	42.6	35.9	19.9	3.5	4.4	C19-20
Anus	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C21
Liver and bile duct	17	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.0	8.0	12.3	9.1	27.2	21.4	18.9	21.5	33.2	5.0	5.4	C22,C24
Gallbladder	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	6.6	0.2	0.2	C23
Pancreas	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C25
Nose, sinuses etc.	1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	C30-31
Larynx	7	0.0	0.0	0.0	0.0	0.9	0.0	0.0	3.0	1.1	2.7	1.8	10.9	17.8	9.5	0.0	13.3	2.0	2.3	C32
Trachea, Bronchus, and lung	34	0.0	0.0	0.0	0.0	0.0	3.4	0.9	5.1	5.7	12.3	20.0	43.6	39.2	89.9	93.3	59.8	9.9	11.8	C33-34
Other thoracic 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	C37-38
Bone	0	0.0	0.0	1.6	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	0.1	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C43
Other skin	5	0.0	0.0	0.0	1.3	0.0	0.0	0.9	2.0	1.1	2.7	3.6	2.7	3.6	4.7	14.3	13.3	1.5	1.7	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 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	1	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C47,C49
Breast	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.1	0.0	9.1	10.9	7.1	14.2	78.9	26.6	3.1	3.9	C50
Penis	2	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	2.7	0.0	0.0	14.3	6.6	0.5	0.6	C60
Prostate	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	1.8	0.0	7.1	18.9	86.1	46.5	2.7	3.8	C61
Testis	1	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	0.2	0.1	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	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C64
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
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	13	0.0	1.5	0.0	0.0	0.0	0.0	0.9	2.0	1.1	2.7	12.7	10.9	21.4	4.7	64.6	33.2	3.7	4.6	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	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	0.0	0.1	0.1	C69
Brain, nervous system	3	0.0	1.5	0.0	0.0	0.0	0.8	0.0	3.0	0.0	0.0	1.8	2.7	0.0	0.0	7.2	0.0	0.8	0.7	C70-72
Thyroid	6	0.0	0.0	0.0	0.0	0.9	0.8	0.9	0.0	0.0	1.4	3.6	10.9	7.1	14.2	14.3	13.3	1.8	2.2	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	0.9	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
Hodgkin 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	C81
Non-Hodgkin lymphoma	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	0.0	0.0	0.0	0.1	0.1	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.1	0.1	C90
Lymphoid leukemia	1	0.0	1.5	3.2	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	C91
Myeloid leukemia	3	0.0	0.0	0.0	0.0	0.0	1.7	0.9	3.0	1.1	2.7	0.0	2.7	0.0	0.0	0.0	0.0	1.0	0.7	C92-94
Leukemia unspecified	1	0.0	1.5	0.0	0.0	0.0	0.8	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	C95
Other and unspecified	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.3	0.0	1.8	2.7	3.6	9.5	14.3	6.6	1.1	1.2	O&U
All sites	**194**	**0.0**	**6.1**	**4.8**	**2.6**	**2.8**	**9.3**	**14.4**	**32.4**	**46.9**	**70.9**	**121.6**	**198.9**	**192.3**	**354.9**	**581.0**	**445.2**	**55.7**	**65.0**	**ALL**

Table 3.17.2 Pathum Thani (2008), Annual Incidence per 100,000 by Age Group (years) – 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	0	0.0	0.0	0.0	0.0	0.0	0.0	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
Tongue	3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.8	0.0	0.0	3.4	0.0	0.0	8.8	5.5	0.0	0.8	0.8	C01-02
Mouth	5	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.9	2.1	0.0	5.1	4.9	0.0	0.0	11.1	22.1	1.5	1.4	C03-06
Salivary glands	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	0.0	0.0	5.5	0.0	0.2	0.2	C07-08
Tonsil	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	3.3	0.0	0.0	0.0	0.2	0.2	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	5.5	0.0	0.1	0.1	C10
Nasopharynx	4	0.0	0.0	0.0	0.0	0.0	0.8	0.0	2.8	6.4	0.0	0.0	2.4	6.6	0.0	0.0	0.0	1.2	1.0	C11
Hypopharynx	1	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.3	0.3	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
Esophagus	6	0.0	0.0	0.0	0.0	0.0	0.8	0.9	0.9	1.1	5.2	5.1	7.3	6.6	4.4	0.0	4.4	1.6	1.6	C15
Stomach	10	0.0	0.0	0.0	0.0	0.0	0.8	1.7	3.8	2.1	6.5	11.8	7.3	3.3	8.8	5.5	8.8	2.7	2.5	C16
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	0.0	0.0	0.0	0.0	0.0	C17
Colon	28	0.0	0.0	0.0	0.0	0.0	1.6	5.2	5.7	8.5	10.4	23.6	19.5	23.0	30.9	38.7	53.0	7.8	7.6	C18
Rectum	15	0.0	0.0	0.0	1.3	0.0	0.8	3.5	5.7	7.5	2.6	10.1	12.2	13.2	8.8	11.1	17.7	4.0	3.7	C19-20
Anus	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C21
Liver and bile duct	11	0.0	1.6	0.0	0.0	0.0	0.0	0.9	0.9	1.1	7.8	5.1	7.3	16.4	22.1	11.1	17.7	2.9	3.2	C22,C24
Gallbladder	0	0.0	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	0.0	0.1	0.1	C23
Pancreas	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	C25
Nose, sinuses etc.	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	3.3	4.4	0.0	0.0	0.3	0.3	C30-31
Larynx	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.6	1.7	0.0	6.6	0.0	5.5	4.4	0.8	0.8	C32
Trachea, Bronchus, and lung	29	0.0	0.0	0.0	0.0	0.8	1.6	2.6	6.6	7.5	6.5	22.0	24.4	42.8	30.9	60.8	30.9	7.8	8.1	C33-34
Other thoracic organs	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	C37-38
Bone	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C40-C41
Melanoma of skin	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	2.4	3.3	0.0	5.5	4.4	0.5	0.5	C43
Other skin	4	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.9	0.0	1.3	1.7	2.4	13.2	0.0	5.5	4.4	1.0	1.1	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 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	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	0.0	0.1	0.1	C47,C49
Breast	97	0.0	0.0	0.0	0.0	1.7	3.3	11.3	22.8	53.4	86.2	65.9	68.2	95.4	48.5	66.3	53.0	26.4	24.5	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	51	0.0	0.0	0.0	0.0	0.8	5.7	3.5	19.0	27.8	28.7	40.5	31.7	46.0	48.5	16.6	35.3	14.0	12.9	C53
Corpus uteri	7	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.1	6.5	5.1	7.3	13.2	8.8	5.5	4.4	1.9	2.0	C54
Uterus unspecified	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.7	0.0	0.0	0.0	0.0	0.0	0.2	0.2	C55
Ovary	10	0.0	0.0	0.0	2.5	0.0	0.8	2.6	0.9	6.4	9.1	3.4	9.7	3.3	8.8	0.0	4.4	2.7	2.5	C56
Other female genital	0	0.0	0.0	0.0	0.0	0.0	0.0	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
Kidney	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.4	0.0	0.0	0.0	0.0	0.2	0.2	C64
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
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	6	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.9	2.1	6.5	3.4	2.4	6.6	0.0	11.1	4.4	1.6	1.6	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	0	0.0	0.0	0.0	0.0	0.0	0.0	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
Brain, nervous system	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.9	0.0	2.4	6.6	0.0	5.5	0.0	0.9	0.9	C70-72
Thyroid	19	0.0	0.0	1.6	1.3	1.7	4.9	6.9	5.7	8.5	7.8	5.1	17.1	16.4	8.8	5.5	8.8	5.3	4.7	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	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C81
Non-Hodgkin lymphoma	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	3.3	0.0	0.0	4.4	0.3	0.3	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	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	C90
Lymphoid leukemia	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C91
Myeloid leukemia	6	0.0	0.0	0.0	0.0	0.0	1.6	1.7	0.0	1.1	1.3	0.0	7.3	0.0	13.2	5.5	22.1	1.6	1.6	C92-94
Leukemia unspecified	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	0.0	0.0	0.0	0.1	0.2	C95
Other and unspecified	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.2	1.3	5.1	2.4	0.0	0.0	5.5	8.8	1.1	1.0	O&U
All sites	**331**	**1.4**	**1.6**	**1.6**	**7.5**	**5.1**	**24.5**	**44.2**	**86.3**	**149.5**	**197.2**	**221.3**	**241.3**	**332.2**	**264.7**	**293.0**	**313.7**	**90.6**	**86.2**	**ALL**

Table 3.17.3 Annual incidence, Pathum Thani, 2008

Site	Male						Female						ICD-10
	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	No. Cases Year	Freq. (%)	Crude rate (per 100,000)	ASR world (per 100,000)	Com. 0-64 (percent)	Rate. 0-74 (percent)	
Lip	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C00
Tongue	7	3.4	1.9	2.2	0.1	0.2	3	0.9	0.8	0.8	0.0	0.1	C01-02
Mouth	5	2.6	1.4	1.6	0.1	0.2	5	1.6	1.5	1.4	0.1	0.1	C03-06
Salivary glands	0	0.2	0.1	0.1	0.0	0.0	1	0.2	0.2	0.2	0.0	0.0	C07-08
Tonsil	3	1.5	0.9	1.0	0.1	0.1	1	0.2	0.2	0.2	0.0	0.0	C09
Other oropharynx	1	0.3	0.2	0.3	0.0	0.1	0	0.1	0.1	0.1	0.0	0.0	C10
Nasopharynx	5	2.8	1.5	1.8	0.1	0.2	4	1.3	1.2	1.0	0.1	0.1	C11
Hypopharynx	2	1.0	0.6	0.7	0.1	0.1	1	0.3	0.3	0.3	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	C14
Esophagus	8	4.3	2.4	2.7	0.1	0.3	6	1.8	1.6	1.6	0.1	0.2	C15
Stomach	5	2.6	1.4	1.6	0.1	0.2	10	3.0	2.7	2.5	0.2	0.3	C16
Small intestine	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C17
Colon	22	11.5	6.4	7.7	0.3	0.9	28	8.6	7.8	7.6	0.5	0.8	C18
Rectum	12	6.4	3.5	4.4	0.2	0.6	15	4.4	4.0	3.7	0.3	0.4	C19-20
Anus	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C21
Liver and bile duct	17	9.0	5.0	5.4	0.4	0.6	11	3.2	2.9	3.2	0.2	0.4	C22,C24
Gallbladder	1	0.3	0.2	0.2	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C23
Pancreas	0	0.0	0.0	0.0	0.0	0.0	1	0.2	0.2	0.1	0.0	0.0	C25
Nose, sinuses etc.	1	0.7	0.4	0.3	0.0	0.0	1	0.3	0.3	0.3	0.0	0.0	C30-31
Larynx	7	3.6	2.0	2.3	0.2	0.2	3	0.9	0.8	0.8	0.1	0.1	C32
Trachea, Bronchus, and lung	34	17.7	9.9	11.8	0.7	1.6	29	8.7	7.8	8.1	0.6	1.0	C33-34
Other thoracic organs	0	0.0	0.0	0.0	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C37-38
Bone	0	0.2	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C40-C41
Melanoma of skin	0	0.0	0.0	0.0	0.0	0.0	2	0.5	0.5	0.5	0.0	0.1	C43
Other skin	5	2.8	1.5	1.7	0.1	0.2	4	1.1	1.0	1.1	0.1	0.1	C44
Mesothelioma	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C45
Kaposi sarcoma	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	1	0.3	0.2	0.2	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C47,C49
Breast	11	5.5	3.1	3.9	0.2	0.6	97	29.2	26.4	24.5	2.0	2.6	C50
Vulva							0	0.0	0.0	0.0	0.0	0.0	C51
Vagina							0	0.0	0.0	0.0	0.0	0.0	C52
Cervix uteri							51	15.4	14.0	12.9	1.0	1.3	C53
Corpus uteri							7	2.1	1.9	2.0	0.2	0.2	C54
Uterus unspecified							1	0.2	0.2	0.2	0.0	0.0	C55
Ovary							10	3.0	2.7	2.5	0.2	0.2	C56
Other female genital							0	0.0	0.0	0.0	0.0	0.0	C57
Placenta							0	0.0	0.0	0.0	0.0	0.0	C58
Penis	2	0.9	0.5	0.6	0.0	0.1							C60
Prostate	9	4.8	2.7	3.8	0.1	0.6							C61
Testis	1	0.3	0.2	0.1	0.0	0.0							C62
Other male genital organs	0	0.0	0.0	0.0	0.0	0.0							C63
Kidney	1	0.3	0.2	0.2	0.0	0.0	1	0.2	0.2	0.2	0.0	0.0	C64
Renal pelvis	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	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	C66
Bladder	13	6.7	3.7	4.6	0.3	0.6	6	1.8	1.6	1.6	0.1	0.2	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	0	0.2	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C69
Brain, nervous system	3	1.4	0.8	0.7	0.0	0.1	3	1.0	0.9	0.9	0.1	0.1	C70-72
Thyroid	6	3.3	1.8	2.2	0.1	0.3	19	5.8	5.3	4.7	0.4	0.5	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	C74
Other endocrine	0	0.2	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C75
Hodgkin disease	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C81
Non-Hodgkin lymphoma	0	0.2	0.1	0.1	0.0	0.0	1	0.3	0.3	0.3	0.0	0.0	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C88
Multiple myeloma	0	0.2	0.1	0.1	0.0	0.0	0	0.1	0.1	0.1	0.0	0.0	C90
Lymphoid leukemia	1	0.7	0.4	0.5	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	C91
Myeloid leukemia	3	1.7	1.0	0.7	0.1	0.1	6	1.8	1.6	1.6	0.1	0.2	C92-94
Leukemia unspecified	1	0.5	0.3	0.3	0.0	0.0	0	0.1	0.1	0.2	0.0	0.0	C95
Other and unspecified	4	1.9	1.1	1.2	0.1	0.2	4	1.2	1.1	1.0	0.1	0.1	O&U
All sites	**194**	**100.0**	**55.7**	**65.0**	**3.5**	**8.2**	**331**	**100.0**	**90.6**	**86.2**	**6.6**	**9.4**	**ALL**

Table 3.17.4 Percentage of morphologically verified and death certificate only cases, Pathum Thani, 2008

Site	Male			Female			ICD-10
	Cases 3 Years	%MV	%DCO	Cases 3 Years	%MV	%DCO	
Oral cavity	36	100.0	0.0	27	100.0	0.0	C00-C08
Oropharynx, etc	11	100.0	0.0	3	100.0	0.0	C09-C10,C14
Nasopharynx	16	100.0	0.0	13	100.0	0.0	C11
Hypopharynx	6	100.0	0.0	3	100.0	0.0	C12-C13
Oesophagus	25	96.0	0.0	18	100.0	0.0	C15
Stomach	15	100.0	0.0	30	93.3	0.0	C16
Small intestine	0	0.0	0.0	0.0	0.0	0.0	C17
Colon and rectum	104	100.0	0.0	129	100.0	0.0	C18-C21
Liver and bile duct	52	36.5	0.0	32	34.4	0.0	C22,C24
Gallbladder	2	100.0	0.0	1	100.0	0.0	C23
Pancreas	0	0.0	0.0	2	100.0	0.0	C25
Nose, sinuses etc	4	100.0	0.0	3	100.0	0.0	C30-C31
Larynx	21	100.0	0.0	9	100.0	0.0	C32
Bronchus, lung	103	97.1	0.0	86	97.7	0.0	C33-C34
Other thoracic organs	0	0.0	0.0	1	100.0	0.0	C37-C38
Bone	1	100.0	0.0	0	0.0	0.0	C40-C41
Melanoma of skin	0	0.0	0.0	5	100.0	0.0	C43
Other skin	16	100.0	0.0	11	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	2	100.0	0.0	1	100.0	0.0	C47,C49
Breast	32	100.0	0.0	290	100.0	0.0	C50
Vulva				0	0.0	0.0	C51
Vagina				0	0.0	0.0	C52
Cervix uteri				153	100.0	0.0	C53
Corpus uteri				21	100.0	0.0	C54
Uterus unspecified				2	100.0	0.0	C55
Ovary				30	100.0	0.0	C56
Other female genital				0	0.0	0.0	C57
Placenta				0	0.0	0.0	C58
Penis	5	100.0	0.0				C60
Prostate	28	100.0	0.0				C61
Testis	2	100.0	0.0				C62
Other male genital organs	0	0.0	0.0				C63
Kidney	2	100.0	0.0	2	100.0	0.0	C64
Renal pelvis	0	0.0	0.0	0	0.0	0.0	C65
Ureter	0	0.0	0.0	0	0.0	0.0	C66
Bladder	39	100.0	0.0	18	100.0	0.0	C67
Other urinary organs	0	0.0	0.0	0	0.0	0.0	C68
Eye	1	100.0	0.0	0	0.0	0.0	C69
Brain, nervous system	8	100.0	0.0	10	100.0	0.0	C70-72
Thyroid	19	100.0	0.0	58	100.0	0.0	C73
Adrenal gland	0	0.0	0.0	0	0.0	0.0	C74
Other endocrine	1	100.0	0.0	0	0.0	0.0	C75
Hodgkin's disease	0	0.0	0.0	0	0.0	0.0	C81
Non-Hodgkin lymph	1	100.0	0.0	3	100.0	0.0	C82-85,C96
Immunoproliferative diseases	0	0.0	0.0	0	0.0	0.0	C88
Multiple myeloma	1	100.0	0.0	1	100.0	0.0	C90
Leukemia	17	100.0	0.0	19	100.0	0.0	C91-C95
Other and unspecified	11	100.0	0.0	12	100.0	0.0	O&U
All site	**581**	**93.6**	**0.0**	**993**	**97.5**	**0.0**	**ALL**

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