

Chapter II

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**LYMPHOMA**

ICD-10 C81-C85, C96

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Lymphoma comprises Hodgkin disease (HD) and Non-Hodgkin lymphoma (NHL). The incidence of lymphoma in Thailand is relatively low by world standard. NHL is 11.3 and 24.9 times more common than HD in male and female, respectively. Incidence is prominent in male both NHL (M:F = 1.5) and HD (M:F = 3.2).

NHL is the fifth most common cancer in males (ASR 4.5) while it is not included in ten common cancers in female. The estimated ASR for NHL in female is 3.1 per 100 000. (Figure 2.20.1) The current incidence rate in male is lower than the reported rate of Thailand during 1995-1997 (ASR 4.9) while the rate in female remains the same (Jootar, 2003). The highest incidence is found in Chiang Mai (ASR male 6.7, female 4.1) and lowest in Nakhon Phanom (ASR male 1.1, female 0.7). Considering by region, the incidence is strikingly low in the northeast. (Figure 2.20.1) The incidence rises after the age of 40. Generally, almost all of the diagnoses were

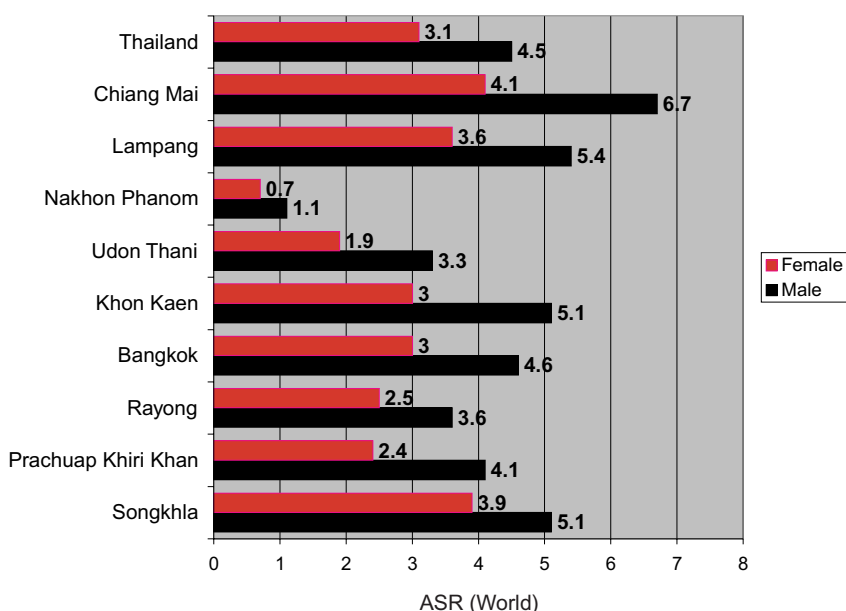
morphological confirmed except the diagnoses of cases from Nakhon Phanom (MV 50%, N=4). None of the cases in these series was diagnosed by DCO basis. The incidence of NHL rises with age (Figure 2.20.2)

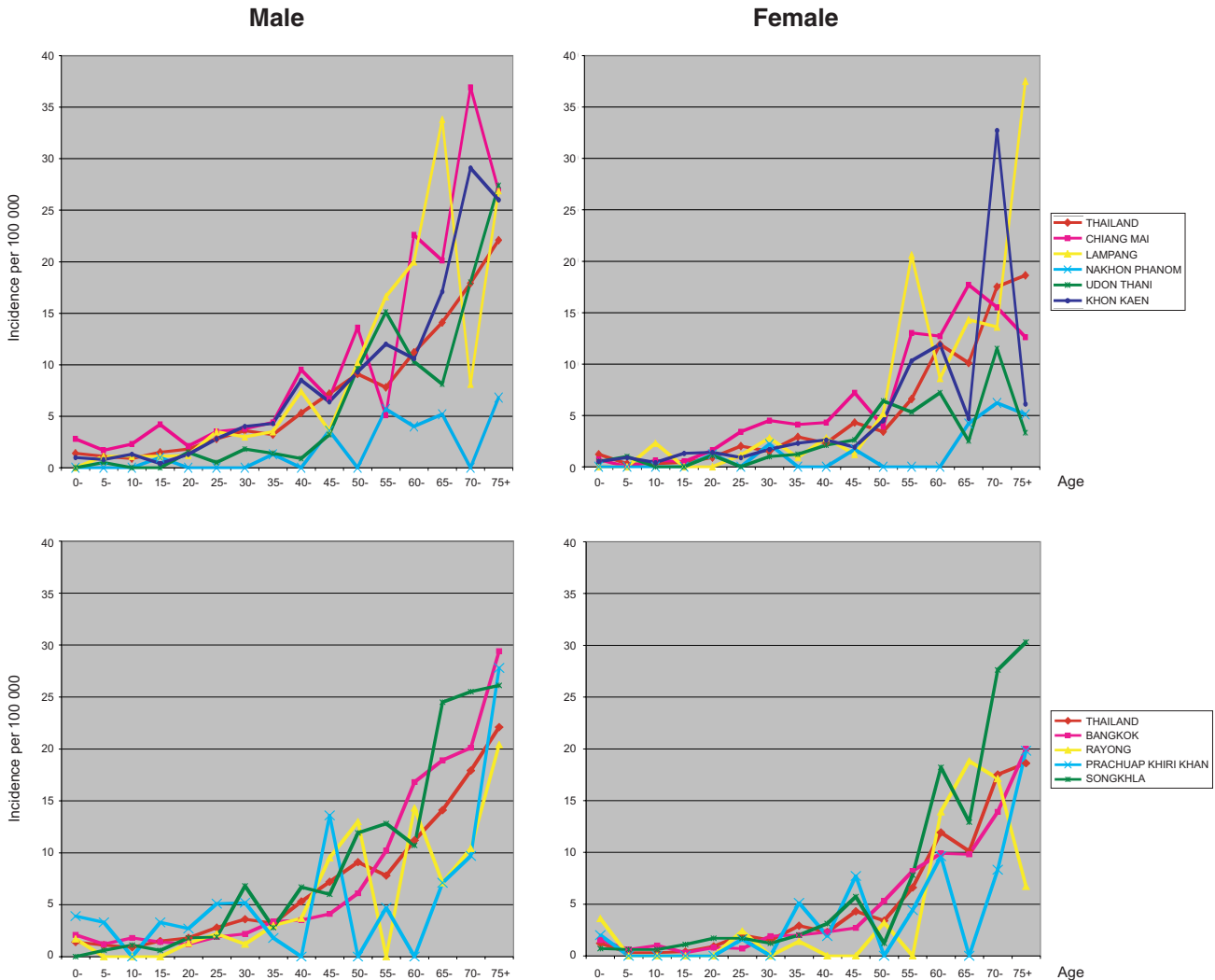
The information on specific subtype of lymphoma is not available from registry data because of imprecise and inconsistent classification and coding in the majority of cases.

HD is not as common as NHL. The estimated ASRs for male and female are 0.4 and 0.1 per 100 000, respectively. (Figure 2.20.3) The current incidence rate in female is lower than the reported rate of Thailand during 1995-1997 (ASR 0.3) while the rate in male remains the same (Jootar, 2003). The highest incidence is found in Chiangmai for both sexes (ASR male 0.9, female 0.4). All of the cases were diagnosed by morphologically confirmed basis.

The information on specific subtype of HD and NHL is not available from registration data be-

**Figure 2.20.1** Non Hodgkin lymphoma in different regions, 1998-2000



**Figure 2.20.2** Age-specific incidence rates of non Hodgkin lymphoma, 1998-2000

cause of imprecise and inconsistent classification and coding in the majority of cases.

#### Risk factors

Viral agents (EBV, HIV) have

been identified as causes of both NHL and HD in children and adults (Mwanda, *et al.* 2005; Mbulaiteye, *et al.* 2006). Although HIV infection is endemic in Thailand, currently, there is no solid information

indicating the incidence of lymphoma in HIV infected-patients. By matching cancer and AIDS registration data, lymphoma and other AIDS-related cancers are feasibly investigated.