



PENANG CANCER REGISTRY

REPORT 2004-2008

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PENANG CANCER REGISTRY REPORT 2004-2008

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Preface

This is the third five-year report of the Penang Cancer Registry (PCR) since it was established in 1994. It is based primarily on cancers registered in the registry with the date of diagnosis falling within the period 1/1/2004 - 31/12/2008. The data reported in the report are as they stood on August 2010.

The cancer registry database is dynamic, and data are continually updated in the light of the most recent available information. Accordingly, numbers in this report for earlier years may vary slightly from those in previous publications.

The value of cancer registries will of course be enhanced when linked with other well established international databases as these will help profile the different types of cancer and how such cancers are linked with the specific environmental, socio-cultural, ethnic and other related characteristic inherent in a specific population or defined geographical area. In this report we made the international comparisons with Singapore (*Singapore Cancer Registry, Interim Report: Trends in Cancer Incidence in Singapore 2004 - 2008*) and with other countries (*Cancer Incidence in Five Continents Volume IX, 2007*).

The registry works to collect and disseminate reliable population-based cancer data to assist in the planning of services and in the prevention and treatment of cancer. In addition timely, accurate, reliable and validated information on cancers occurring in the country is crucial in the planning of effective preventive and management strategies for cancer. There will also be research opportunities for those who are keen to study more about the aetiology of common cancers in our population or look for more innovative ways of diagnosing or treat patients with specific cancers.

Much time and effort has been put into accuracy, completeness and data quality, in the process of collecting the data and in preparing this report. We sincerely hope that the data in this report would be used as a reference point.

We wish to record our thanks to all participating hospitals, clinics, institutions, and laboratories for their corporation and regular notifications to the Penang Cancer Registry.

Foreword



I would like to congratulate everyone in the Penang Cancer Registry for producing this 9th report of the registry. There has been a tremendous amount of work involved in the preparation of this document and it would not have been possible without the commitment and co-operation by the data providers in the state. This report is the culmination of their efforts. Their continuing and consistent support in providing accurate information on cancer in the state has ensured the sustainability of Penang's cancer registry for the last 15 years.

According to the World Health Organization, in the year 2005, 7.6 million people died of cancer. Deaths from cancer worldwide are projected to continue rising with an estimated 12 million deaths in 2030. For the year 2008, malignant neoplasms have been cited as the 2nd most common cause of death in Penang government hospitals.

The burden of cancer can be controlled and reduced by implementing evidence-based strategies for cancer prevention, early detection and management of patients with cancer. The most effective preventive strategies include the avoidance of risk factors of which tobacco still remains the most important. The other prevention strategies include vaccination against HPV (Human papilloma virus) and Hepatitis B virus as well as controlling occupational hazards. All these strategies are being addressed by the Penang State Health Department. We also have programmes in place to address the other common risk factors: overweight, low fruit and vegetable intake and physical inactivity. In addition, cancer screening and early detection activity are carried out through the Cancer Control Programmes in the State. Our aim is to ensure that people are provided with adequate information and empowered to lead healthy lifestyles.

Once again, I would like to record my appreciation to all the participating hospitals, laboratories, general practitioners and other institutions who have been regularly contributing to this registry. Without your efforts, this report would not have been possible. We look forward to further cooperation and collaboration in the future.

Thank You

A stylized black ink signature of the Director.

DATO' DR TEH LEI CHOO
Director
Penang State Health Department



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The following hospitals, Institutions, public and private clinics have contributed data, or provide continuous support to the Penang Cancer Registry:

Bagan Specialist Centre	Metro Specialist Hospital
Bersatu Medical Centre	Mount Miriam Hospital
BM Specialist Women's Clinic & Medical Centre	Nagreh Skin Clinic
BP Clinical Lab Sdn Bhd	Nippon Surgical Clinic
GEH Surgical Centre	Pathlab Sdn Bhd
Gleneagles Medical Centre	Pathology Department, Hospital Pulau Pinang
Gong ENT Clinic	Pathology Department, Hospital Seberang Jaya
Gribbles Pathology (M) Sdn Bhd	Pathology Department, Lam Wah Ee Hospital
Hospice at Home Programme, Penang	Peace Medical Centre
Hospital Bukit Mertajam	Penang Adventist Hospital
Hospital Balik Pulau	Poliklinik Suri
Hospital Kepala Batas	Public Specialist Centre Sdn Bhd
Hospital Pantai Mutiara	Pusat Wanita Toh Puan Datin Khadijah
Hospital Pulau Pinang	Rumah Hospis Pulau Pinang
Hospital Seberang Jaya	Santokh's ENT Clinic
Hospital Sungai Bakap	Siong Clinic
Island Hospital	Specialist Maternity Centre, BW
KS Wan Maternity Centre	Srigim Medical Centre
Kumar Surgical Specialist Clinic	Tan & Tan Specialist Maternity Centre
Lam Wah Ee Hospital	Tan Surgical Centre
Loh Guan Lye Specialists Centre	Tanjung Medical Centre
Medicare Specialist Centre	All Government Health Clinics in Penang

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Thank you all for the valuable contributions.



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- Wan Mohammad Sany Md. Daud (March 2005 – April 2009)
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1. OVERVIEW

1.1 Penang Cancer Registry

The Penang Cancer Registry (PCR) was set up in 1994 as a collaborative effort between the Penang State Health Department and the National Cancer Society of Malaysia, Penang Branch. It was the first regional population-based registry in Malaysia, now covering a population of nearly one and a half million.

The ethnic composition and socio-economic profile of the Penang population is different from other states within Malaysia. Penang has a better economic attainment and higher per capita income than most other states. It benefits from well-developed health services and other basic infrastructures. Penang serves as a cancer care centre not only for Penang residents but also for patients from nearby states such as Kedah, Perlis and Perak as well as neighbouring countries like Indonesia.

The data from this registry provides an epidemiological profile of cancer, the distribution of the cancer burden, incidence trends, and survival rates. The data also identifies high risk groups for specific cancers and variations in incidence in Penang. These may suggest clues as to the causes of cancer to stimulate research and to formulate control measures. The first report of the Penang Cancer Registry covered the period 1994 – 1998 and was published in 2003 followed by the second five-year report covered the period 1999 – 2003 and was published in 2005. This report covers the third five-year period from 2004 to 2008.

1.2 Cancer incidence

This five-year report applies only to Penang residents defined as Malaysian citizens and permanent residents living in Penang at the time of diagnosis.

The population denominator in this report is the 2006 population, as projected population from the census of 2000.

A total of 9692 incident cases of cancer were identified among Penang residents during the period 2004 to 2008 which were registered in the Penang Cancer Registry until August 2010. Of these, 4467 were males and 5225 were females. The average annual age-standardised incidence rates (ASR) were 156.7 for males and 150.9 for females per 100,000 population.

The cumulative rate percent to age 75 years was 18.30 and 16.84 for males and females respectively. The cumulative risk, representing the risk of developing cancer before the age of 75 years in the absence of other causes of death, was for males 16.7 and 15.6 for females. The estimated life time risk for getting cancer was 1 in 6 for both males and females. Cancer incidence increased exponentially with age with a median age at diagnosis of 61 and 56 years for males and females respectively.

The most frequent cancers reported were breast (1713), large bowel (1363), lung (1048), cervix uteri (418), and stomach (404). In males, the five commonest sites were lung, large bowel, prostate, nasopharynx and liver; in females, they were breast, large bowel, cervix uteri, lung and ovary.

1.3 Ethnic variations

Penang has a higher proportion of Chinese residents than the rest of the country. Since Chinese residents have a relatively high incidence of cancer, this would tend to increase the Penang incidence relative to the national experience.

There were ethnic variations in age-standardised rates. The Chinese had an ASR of 185.1 (males) and 176.4 (females), followed by Indians with an ASR of 130.6 and 164.4, and the Malays at 105.6 and 100.9 for males and females respectively. The ASR of the Chinese was higher than for other ethnic groups for most of the ten leading cancers. The exceptions were bladder cancer in Indian males; ovary, corpus uteri and stomach cancer in Indian females; and leukaemia in Malay males.

Five common cancer sites in Chinese males in descending order were lung, large bowel, prostate, nasopharynx and liver, while for Chinese females, they were breast, large bowel, cervix uteri, lung and ovary. Cancers of the lung, large bowel, leukaemia, lymphoma and prostate were the top five cancers for Malay males, whereas breast, large bowel, cervix uteri, ovary, and corpus uteri were the top five cancers for Malay females. Among Indian males, cancers of the large bowel, lung, prostate, lymphoma, and stomach rank five highest, while for Indian females, breast, corpus uteri, cervix uteri, ovary and large bowel were the five leading cancer sites.



The lower cancer incidence among Malays compared to the Chinese and Indians has been recorded again, as in the first and second report. A similar pattern is seen in other population based registries in the country such as in Kelantan and Pahang (Kelantan Cancer Registry Report 1999 – 2003, and Pahang Cancer Registry Report, 1999 – 2003). However the incidence among Malays has been progressively increasing since the first report.

1.4 Staging

Stage was one of the variables collected and it refers to clinical staging at the time of diagnosis. Of the 9692 incident cases, 4943 (51.0%) were staged. There is an increase compared to the first report (20.6%) and second report (43.0%). Of these, 996 (20.1%) were reported as stage I, 1338 (27.1%) as stage II, 1170 (23.7%) as stage III, and 1439 (29.1%) as stage IV. Of those with reported staging, 2609 (56.2%) were observed to have advanced cancers (classified as either stage III or IV). However the overall proportion of the stages remains the same.

1.5 Age patterns

This report also looked at age patterns. There were 216 cases detected among children less than 14 years old and 198 cases among youth (15-24 years). Leukaemia was the main cancer among children under 14 years and among the youth for both the sexes. Cancer of the lung was the most common cancer among males in both 25-59 age groups and the 60-74 age groups as well for males aged 75 years and above. In the females, breast cancer was the most common in both 25-59 age group and the 60-74 age groups. Large bowel was the most common cancer for females aged 75 years and above.



2. BACKGROUND

The effort to document the cancer burden among Malaysians began in 1987 when the National Cancer Registry of Malaysia (NCRM) was established. The Ministry of Health coordinated the nation's first population-based cancer registry that was located within the Public Health Division in Kuala Lumpur. The main objective of this comprehensive register was to provide reliable information on cancer incidence that would be an essential component for policy planning initiatives to meet the country's changing health needs. Apart from the first year after the founding of NCRM, the numbers of passive cancer notifications continuously declined due to numerous deficiencies. In 1993, the Ministry of Health decided to set up regional population based registries to ensure long term sustainability. The Cancer and Tobacco Control Unit of the Disease Control Division then chose Penang State as the pilot location in 1994. Following this regional registries were initially established in Sarawak, Kelantan, Pahang, Johore and Sabah. Since 2007 all the states in Malaysia have set up their own population based registry which is headed by National Cancer Registry in the Ministry Of Health .

The Penang Cancer Registry (PCR) commenced data collection on 1 January 1994, following endorsement of a Memorandum of Understanding between the Penang State Health Department and the National Cancer Society of Malaysia, Penang Branch. Penang Cancer Registry is headed by senior epidemiologist, one senior health sister and two clerical staff. In this report the data was managed fully by the registry staff .

This report covers the period 2004 - 2008 (data as of August 2010). Annual statistical reports (1994, 1995, 1996, 1997, 2004) and first and second five-year report (1994-1998, 1999-2003) have also been produced by the registry.

2.1 Geography

Malaysia consists of Peninsular Malaysia and East Malaysia, separated by the South China Sea. It is located in South-East Asia between latitudes 5°8' and 5°35'. It is bounded by Thailand, Singapore, Indonesia and Brunei. Malaysia consists of 13 states and 3 federal territories.

Penang is situated in the northwest region of Peninsular Malaysia. The state consists of an island and a strip of mainland with a total land area of 1,149 square kilometres. The island (about 300 sq km) is linked to the mainland by a 13.5 km bridge. Penang has a tropical climate with a temperature range between 22°C to 30°C (SERI, 2008).

Penang has five health districts - Timur Laut and Barat Daya districts on the island; and Seberang Perai Utara (SPU), Seberang Perai Tengah (SPT) and Seberang Perai Selatan (SPS) on the mainland.



Figure 1: Map

2.2 Population

The number of Penang residents defined as Malaysian citizens and permanent residents residing in Penang. This is projected from year 2000 census, Penang population in the year 2008 was estimated to be 1,448,300 million (Table 1).

The population pyramid for Penang residents, as indicated by the 2008 projected population, is shown in the figure below. The ratio of males to females is 99:100

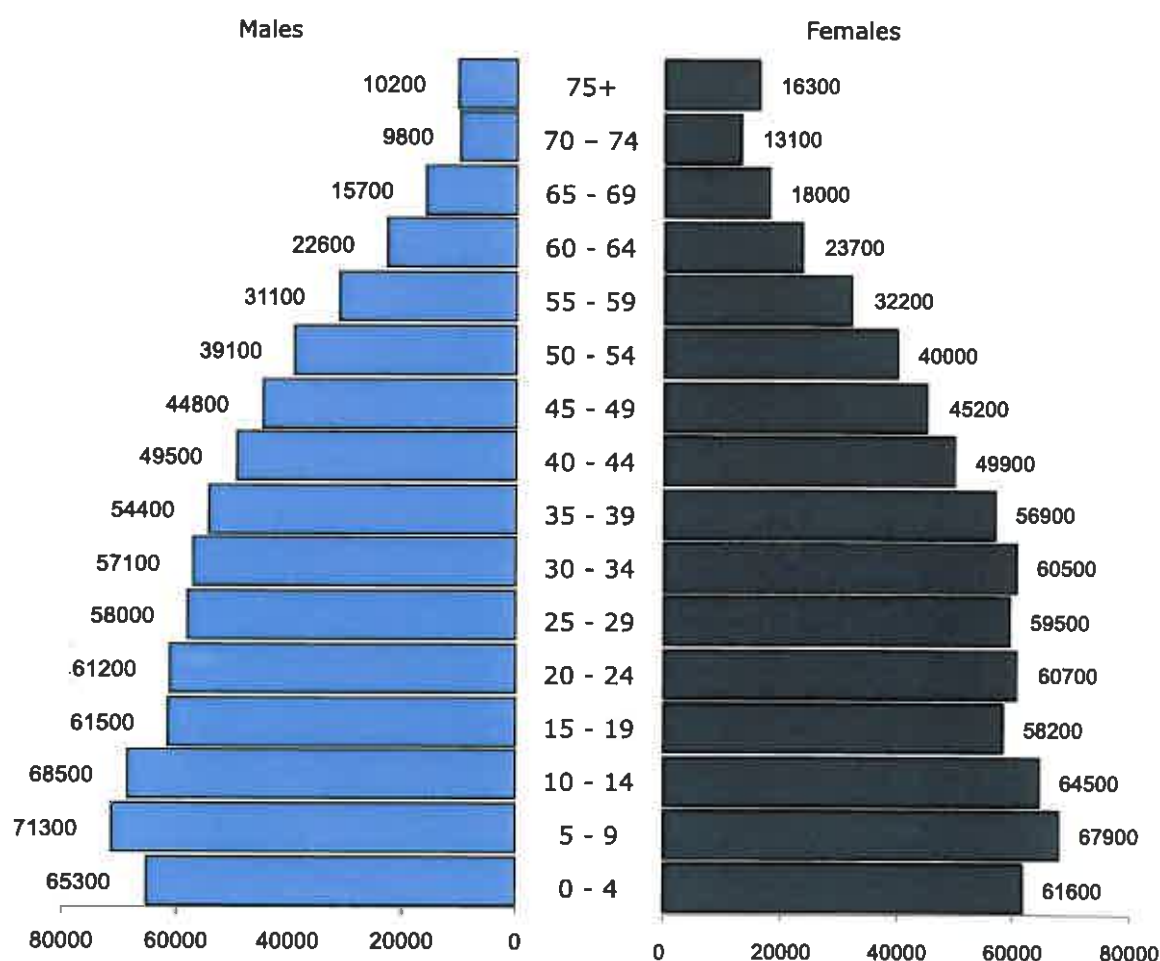


Figure 2: Population pyramid, Penang All Residents, 2008

The distribution of the Penang population by ethnicity varies, with more Malays living on the mainland (52.4% Malays, 35.4% Chinese, 11.9% Indians and 0.3% Others), than on the island where there are more Chinese (Chinese 55.5%, Malays 35.4%, Indians 8.6% and 0.5% others) (Population and Housing Census 2000; Department of Statistics, Malaysia, 2008).

The ethnic composition of Penang residents was 44.6% for Chinese and also for Malays, 10.4% Indians, 0.4% others and 6.4% non-citizens. This is different from that of the Malaysian population in general where the ethnic composition for the census year 2001 was found to be 53.4% Malays, 26.0% Chinese, 7.6% Indians and 12.9% others (Department of Statistics, Malaysia, 2001).

2.3 Citizenship

Table 1: Malaysians and non-citizens, Penang, 2008

Citizenship	Number	%
Malaysians and permanent residents	1,448,300	93.6
Non-citizens	98,600	6.4
Total	1,546,900	100.0

Source: Dept. of Statistics Malaysia, 2008

Table 2: Ethnicity and locality of population, Penang, 2008

Ethnicity	Number	%	Locality	Number	%
Malays	645,300	44.6	Mainland	786,000	54.3
Chinese	645,600	44.6	Island	662,300	45.7
Indians	151,100	10.4	Total	1,448,300	100.0
Others	6,300	0.4			
Total	1,448,300	100.0			

Source: Dept. of Statistics Malaysia, 2008

2.4 Infrastructure

Basic infrastructure such as roads, public transportation and telecommunication is well developed. Electricity and water supply coverage is almost 100%. Penang is a port city with an international airport.

2.5 Socioeconomic

The main economic activities are manufacturing and services (especially tourism), which contribute to more than 95% of gross domestic product, while others, are agriculture and fishing.

Table 3: Penang: Sectoral share of gross domestic product (%)

Sectors/Year	2000	2003	2004	2005	2006	2007	2008
Agri, Forestry, Fishing	1.3	1.6	3.9	2.6	2.3	2.3	2.4
Mining & Quarrying	1.1	1.0	0.1	0.1	0.1	0.1	0.1
Manufacturing	45.7	41.3	37.7	36.2	35.3	36.0	33.3
Construction	2.4	2.1	7.1	6.8	5.9	7.0	7.1
Tertiary (Services)	49.5	54.0	51.2	54.3	56.4	54.6	57.1
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: SERI, 2008

Table 4: Penang: Gross domestic product (GDP) (RM) per capita and ratio of State to National per capita GDP

Year	1990	1995	2000	2006	2007	2008
GDP per capita, Penang	6,904.0	11,015.0	12,653.7	27,955.6	29,376.4	30,219.8
Ratio of State to National per capita GDP	1.2	1.4	1.0	1.6	1.6	1.6

Source: SERI, 2008

2.6 Health status and facilities

In keeping with the national experience since independence, a change is occurring in disease patterns. Lifestyle related conditions are now more common than infectious diseases. Life expectancy in Malaysia at birth for both genders has increased over the years, rising from 56 years for males and 58 for females in 1957 to 71.6 years for males and 76.4 years for females in 2008. Over the same period, the crude death rate fell from 12.4 per 1000 population to 4.7. The crude birth rate in 2008 was 17.8 per 1000 population and the crude rate of natural increase was 13.1 per 1000 population. (Health Facts 2008, Ministry Of Health)

The health status of Penang has been enhanced by improvement in socio-economic status, health infrastructure and health services. There has been a decline in the Infant Mortality Rate per 1,000 live births from 4.3 in 2004 to 3.5 in 2008 (Figure 3). The five leading causes of death in Penang public hospitals from 2004-2008 is shown in Figure 4. For the year 2008 figures are given for both public hospital (Septicaemia:

530 cases, Malignant Neoplasm: 400 cases, Cerebrovascular Disease: 399, Ischaemic Heart Disease: 341, Pneumonia: 324) and private hospital (Malignant Neoplasm: 106 cases, Heart Disease & diseases of the circulatory system: 87, Pneumonia: 33, Septicaemia: 27 cases and Cerebrovascular Disease: 25).

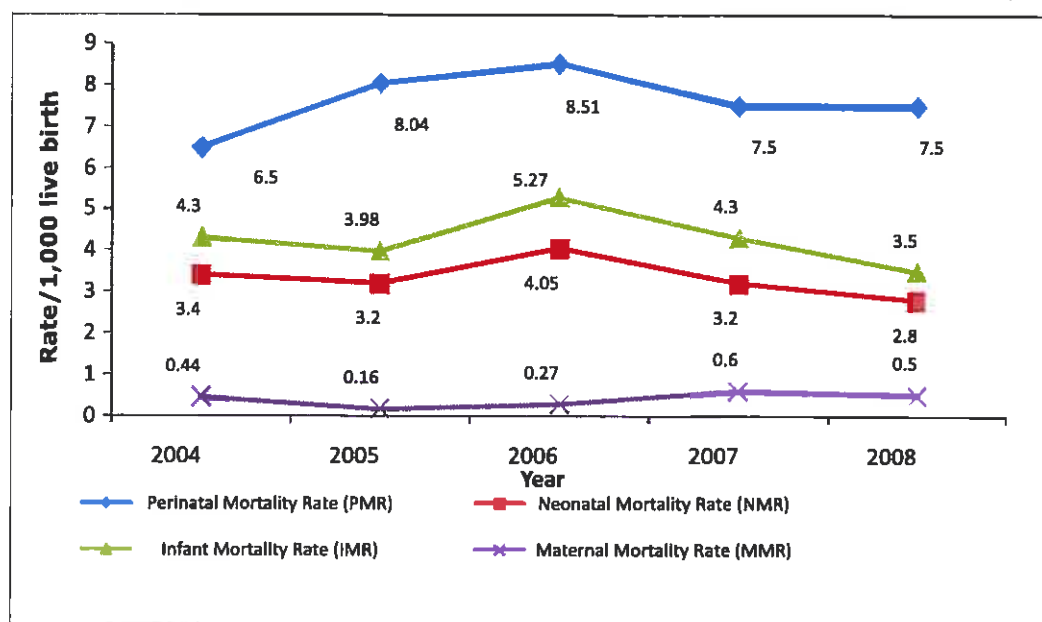


Figure 3: Perinatal, Neonatal, Infant and Maternal Mortality Rate 2004-2008, Penang

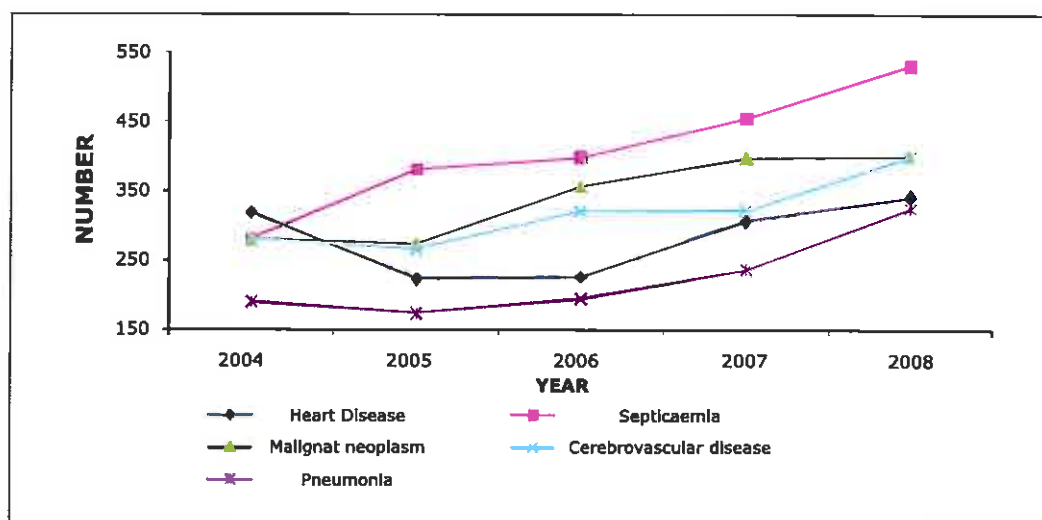


Figure 4: Most common causes of death in Penang public hospitals, 2004-2008

The doctor-population ratio, was fluctuating between 1:840 and 1: 996 for the period of 2004 to 2008. There were thirty one hospitals, six of which were public and twenty five were private, serving the population of Penang. Other public health facilities include 26 health clinics, 5 Maternal and Child Health Clinics and 4 outpatient departments at public hospitals and 62 community clinics. In addition, there are 478 private clinics (Health Facts 2008, Penang State Health Department).

All the modalities of treatment for cancer are available in Penang. However radiotherapy services are only available at two private hospitals, Mount Miriam Hospital and Pantai Mutiara Hospital.

**Table 5: Health facilities and number of doctors for Penang, 2004-2008**

	2004	2005	2006	2007	2008
No. of Doctors*					
Public (MOH)	658	521	681	722	855
Private	840	832	822	874	983
Total	1498	1748	1498	1596	1793
Doctor:Population ratio	1:963	1:840	1:996	1:951	1:863
Hospital					
Public (MOH)	6	6	6	6	6
Private	24	24	24	25	25
Total	30	30	30	31	31
Bed					
Public (MOH)	1955	1955	1930	1930	1930
Private	1955	1985	1966	1898	1917
Total	3910	3940	3896	3828	3847
Health Clinics					
Public (MOH)	30	26	26	26	26
Private (GP)	417	435	435	460	478
Total	447	461	461	486	504

*Medical Officer only

Source: Health Facts Penang and Annual Report, Penang State Health Department 2004-2008

3. METHODS

3.1 Sources of data

As cancer is not a notifiable disease, case registration is based primarily on voluntary notifications. The registry seeks to obtain basic epidemiological and clinical data on all cases of cancer diagnosed in Penang since 1st January 1994, regardless of citizenship, place of stay and basis of diagnosis. The registry receives notifications from all sections of the medical profession in Penang, using a standardised format (Refer appendix 20). However analysis of data is confined to Penang residents only. Penang residents are Malaysian citizens as well as other permanent residents living in Penang at the time of diagnosis.

Active case finding and routine checks are done using public and private hospital discharge records, as well as pathology record listings from the public and private laboratories, to ensure completeness of the data. This is supplemented by case detection from death records supplied by the National Registration Department. Any cancer cases detected from pathology and death records are then checked against previously registered cases. If they are not yet notified, reminders are sent to the doctor-in-charge for more information. Additional missing data for these cases also are sought by registry staff by searching the relevant hospital records.

Multiple sources of data assist in optimising completeness but can create the problem of multiple notification of a patient. This issue has been addressed by cross checking names, age (date of birth) and Identity Card numbers (I/C) using CanReg4 software. Identification card number is personal to each Malaysian citizen and permanent resident. Children below 12 years old will be registered under their mother's identification card number. An outline of registration procedures is shown in Figure 5.

3.2 Data processing and coding procedures

3.2.1 Methods of Data Collecting

Both active and passive case finding methods are used by the Penang Cancer Registry.

Active case finding – collecting at source, where registry staff visit the sources of data to extract the required information and record it onto forms, or to obtain copies of the relevant information.

Passive Case Finding – self-reporting, whereby the registry relies on other health care workers to complete notification forms and forward them to the registry, or to send copies of discharge abstracts etc. from which the necessary data can be obtained.

3.2.2 Outline of Registration Procedures

All possible sources of data in the State are identified. This to ensure that there is good coverage in that almost all cases are captured and there is data item completeness i.e. every item relating to the patient is collated and updated. The registry registers all cases of cancer diagnosed among Penang residents. All identified data providers are asked to provide information concerning cancer on the designated forms and send them to the registry. Complete confidentiality is maintained at all times. Data are sent either electronically or by surface mail.

a) Medical Practitioners and Hospital Discharges (HMIS Data) from both Public and Private Sector

Data are entered into the Canreg4 program provided by IARC. The data are then checked for completeness. Those that are complete are checked for duplication, i.e. to ensure no multiple or duplicate recording of the same incident cancer cases. The Canreg program allows this to be done by comparing essential variables across cases. 80% conformity is the standard used to trigger a further check of duplication. In addition, the data are checked against the name and National Identity registration number. Cases are continuously reviewed at all levels. If the patient has been registered before, a check is done against previous notifications to ascertain whether this is a new primary. If the cancer is a new primary, the case is registered with a new registration number, i.e. same patient, different primary, new registration number. If it is not a new primary, the records are simply updated.

b) Reports from Pathology and Haematology Laboratories in both private and public sector

Reports from Laboratories are also sent to the registry and the same procedures are followed as described above.

c) Incomplete forms

Every effort is made to ensure that all the variables are complete. When there are incomplete data, the following steps are taken:

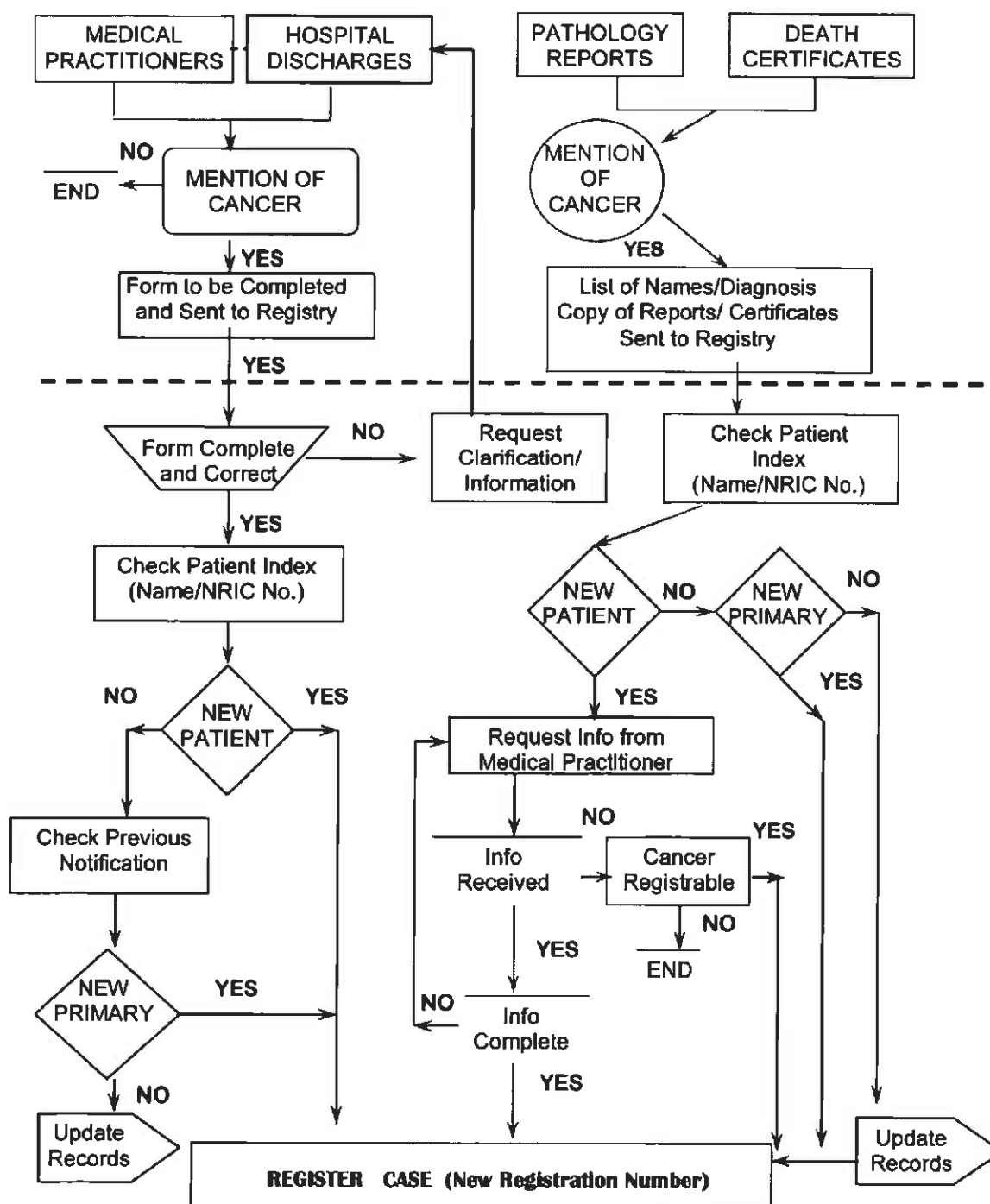


Figure 5: Outline of registration procedures

- i. The notification forms with incomplete data are copied. One copy is kept at the registry. The original is sent back to the treating doctor or other data source provider for reclarification or for further information. The doctor or data source provider is asked to complete the notification form and send it back to the registry. Notification forms that have been sent out to the hospitals and medical practitioners are followed up with phone calls.
- ii. If clarification is not forthcoming, or still not complete, staff from the registry visit the source provider to obtain the required data.

d) Lists from Death Certificates

Listings are obtained from the State Registration departments and from government and private hospital in the same procedures as in 3.2.2 (a) are followed. Registry staff members visit the state registration department to review death certificates to look for any mention of cancer. Those with a mention of cancer on death certificate are identified, and transcripts of associated reports or certificates are taken back to the registry.

Names and other information are checked against the patient index, including the national identity registration number. If it is not a new case, the records are updated. If it is a new patient, the staff contact the medical practitioner, if any, to request information on the patient. When complete this is registered as a new patient. If no further information is available, this is registered as a Death Certificate Only (DCO). All updated information collected on hard copies, either passively or actively, are entered into the computer database. Electronic data maintained in the cancer registry databases are subjected to ongoing quality control.

3.3 Quality control

In order to achieve a high coverage and accuracy of data, the Penang Cancer Registry team performs several quality control checks. These include tracking missed cases, identifying multiple notifications, and searching for inaccurate information.

Quality of data can be measured indirectly using percentages of morphologically verified cases (MV%) and death certificate only cases (DCO%).

3.4 Description of statistical methods

3.4.1. Crude incidence rate (CR)

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

3.4.2. Age-specific rate (AR)

Incidence rate in a specified five-year age group, calculated by dividing the number of cancer cases in the five-year age group by the Penang population in the particular age group and multiplying by 100,000.

$$AR = N_i / P_i \times 100,000$$

N_i - Number of new cancer occurring in the i^{th} age group

P_i - Person-years at risk in the i^{th} age group in Penang State

3.4.3. Age-standardised rate (ASR)

Since the incidence of cancer depends heavily on the age structure of the population, there is a need for age adjustment for comparative analysis. The age-standardised incidence rate is a summary measure, indicating the rate that a population would have if it had a standard age structure.

It is calculated by summing the age-specific rates weighted to the world standard population; the calculated incidence rate is then called the World Standardised incidence rate. It is also expressed per 100,000.

$$ASR = \sum (AR_i \times P_{i, \text{std}}) / \text{total world standard population}$$

AR_i - Age specific rate in the i^{th} age class

$P_{i, \text{std}}$ - The number in the i^{th} age class of world standard population

3.4.4. Standard error (SE)

As with any measurement of a population, incidence rates have a certain amount of chance variation. The index measure of this variability is known as the standard error and is computed as follows:

$$SE = \sqrt{\sum_i d_i (w_i / y_i)^2}$$

d_i - Number of cases of the cancer of interest in the age class i

w_i - Standard world population for age class i

y_i - Person-years at risk for age class i

3.4.5. 95% Confidence Limit of ASR (95% CL)

ASRs are subject to random variation around the true underlying rate. 95% confidence limits are endpoints of a range in which the true rate would be expected to fall 95% of the time. 95%CLs are computed from the standard error (SE) of the ASR using the following formula:

$$95\% \text{ CL} = \text{ASR} \pm (1.96 \times \text{SE})$$

3.4.6. Cumulative rate (CR74)

Cumulative rate is the weighted sum of age-specific incidence rates until completion of age 74 years. The weighting used in this calculation is based simply on the widths of the age groups, i.e. multiplying the five-year age-sex specific rates per person by 5 and summing over age groups from 0-4 to 70-74. CR74 is necessary in order to ascertain the cumulative risk and is expressed in percentages.

$$\text{CR74} = 5 \times (\sum_i d_i / y_i) \times 10^{-5} \times 100\%$$

d_i - Number of cases in age class i

y_i - Person-years at risk of age class i

3.4.7. Cumulative risk (CumR)

The cumulative risk is the probability that an individual will develop the cancer in question during a certain age period, in the absence of any competing cause of death. The age period over which the risk is accumulated in this report is 0-74 years. The precise mathematical relationship between the cumulative rate and the cumulative risk is:

$$\text{CumR} = 100 \times [1 - \exp(-\text{CR74}/100)]$$

exp - exponential

4. PENANG CANCER INCIDENCE

For the period 2004 -2008, the Penang Cancer Registry received 24685 notifications; 12937 were cases notified by government and private hospitals, while 14577 cases were from government and private pathologists (Appendix 19). These notifications included a total of 9692 incident cases, of whom 4467 were males and 5225 were females. Seventy two cases were excluded from ethnic comparisons as they did not belong to any of the three major ethnic groups.

The average annual age-standardised incidence rates were 156.7 per 100,000 males and 150.9 per 100,000 females, while the cumulative rate percent to age 75(CR75) was 18.3 and 16.8 for males and females respectively. The cumulative risk (CumR) was 16.7 for males and 15.6 for females, representing the risks of males and females in Penang developing cancer before the age of 75, in the absence of other causes of death. The estimated life time risk of getting cancer among both males and females was 1 in 6 slightly higher risk compared to 1999-2003 report which was 1 in 7.

Table 6: Cancer incidence, Penang 2004-2008

Sex	Number	%	CR	ASR	CumR
Males	4467	46.1	127.5	156.7	16.7
Females	5225	53.9	147.7	150.9	15.6

Table 7: Number of new cancer cases, crude rate (CR), age-standardised rate (ASR) and cumulative risk (CumR) by major ethnic groups and sex, Penang 2004 -2008

ETHNICITY	MALE			
	Number	CR	ASR	CumR
Malay	1000	65.3	105.6	11.2
Chinese	3103	194.8	185.1	19.4
Indian	330	90.7	130.6	14.4

ETHNICITY	FEMALE			
	Number	CR	ASR	CumR
Malay	1215	77.8	100.9	10.7
Chinese	3438	217.1	176.4	17.9
Indian	534	142.5	164.4	17.5

The highest ASR was seen in the Chinese for both sexes followed by Indians and Malays .

The distribution of cancer incidence by district and ethnicity is shown in figures 6 and 7.

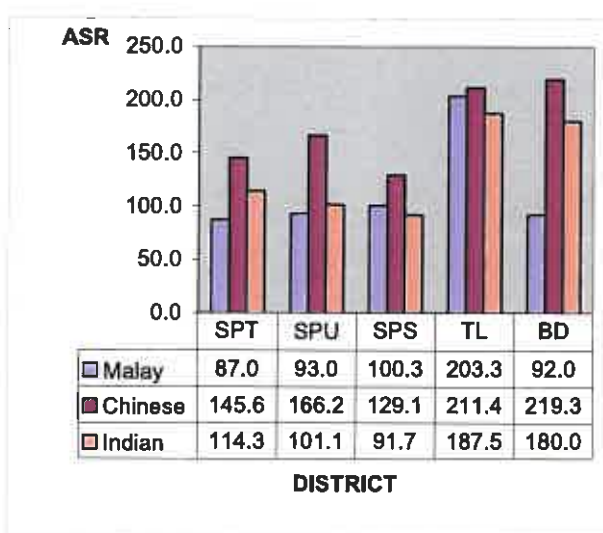


Figure 6: Average annual age-standardised incidence rate by district and ethnicity, males, Penang 2004-2008

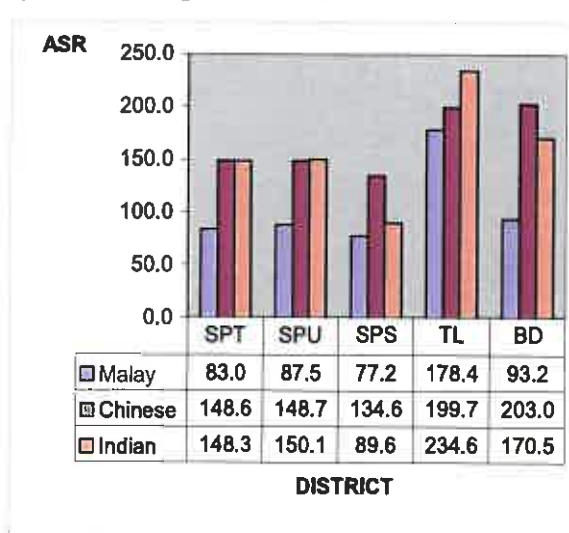


Figure 7: Average annual age-standardised incidence rate by district and ethnicity, females, Penang 2004-2008

4.1 Cancer trends

The annual cancer incidence in Penang varied over the 15 years (1994-2008) in males between 112.3 and 184.6, and in females between 128.9 and 166.3.

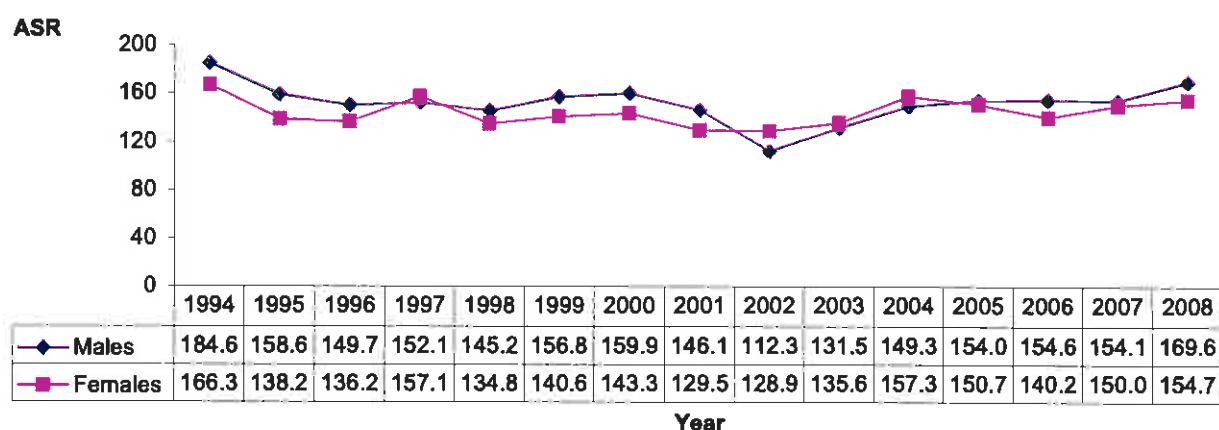


Figure 8: Annual age-standardised rates (ASR) by sex, Penang, 1994-2008

The most common site of cancer among Penang residents was breast cancer followed by large bowel and lung cancer (Table 8 and Figure 9).

Table 8: Ten most common cancers in Penang , all residents , 2004-2008

ICD-10	SITES	No	(%)
C50	Breast	1713	17.7
C18-C21	Large Bowel	1363	14.1
C33-C34	Lung	1048	10.8
C53	Cervix Uteri	418	4.3
C16	Stomach	404	4.2
C22	Liver	384	4.0
C11	Nasopharynx	381	3.9
C61	Prostate	376	3.9
C81-C85;C96	Lymphoma	369	3.8
C91-C95	Leukaemia	335	3.5
	Others	2901	29.8
All		9692	100.0

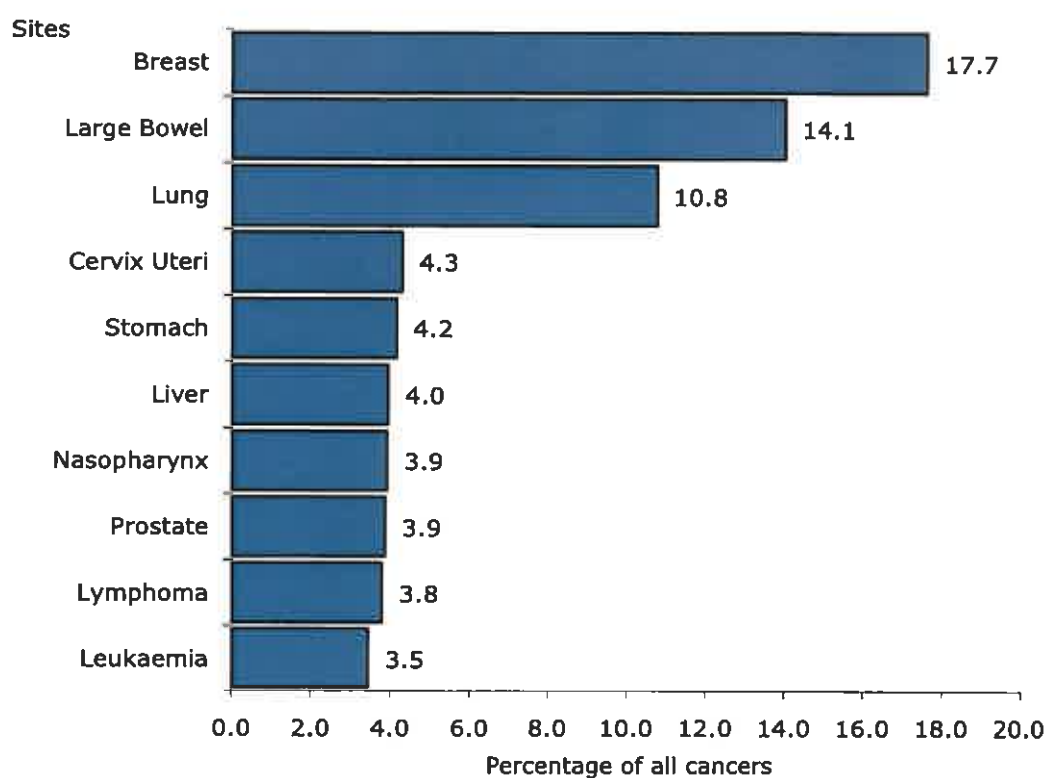


Figure 9: Ten most common cancers, all residents, Penang 2004-2008

The percentage of breast cancer has increased from 14.5% (1999-2003) to 17.7%. Over the same period large bowel cancer has increased from 11.1% to 14.1%, while cancer of the lung, cervix uteri, stomach, and nasopharynx showed decreasing percentage.

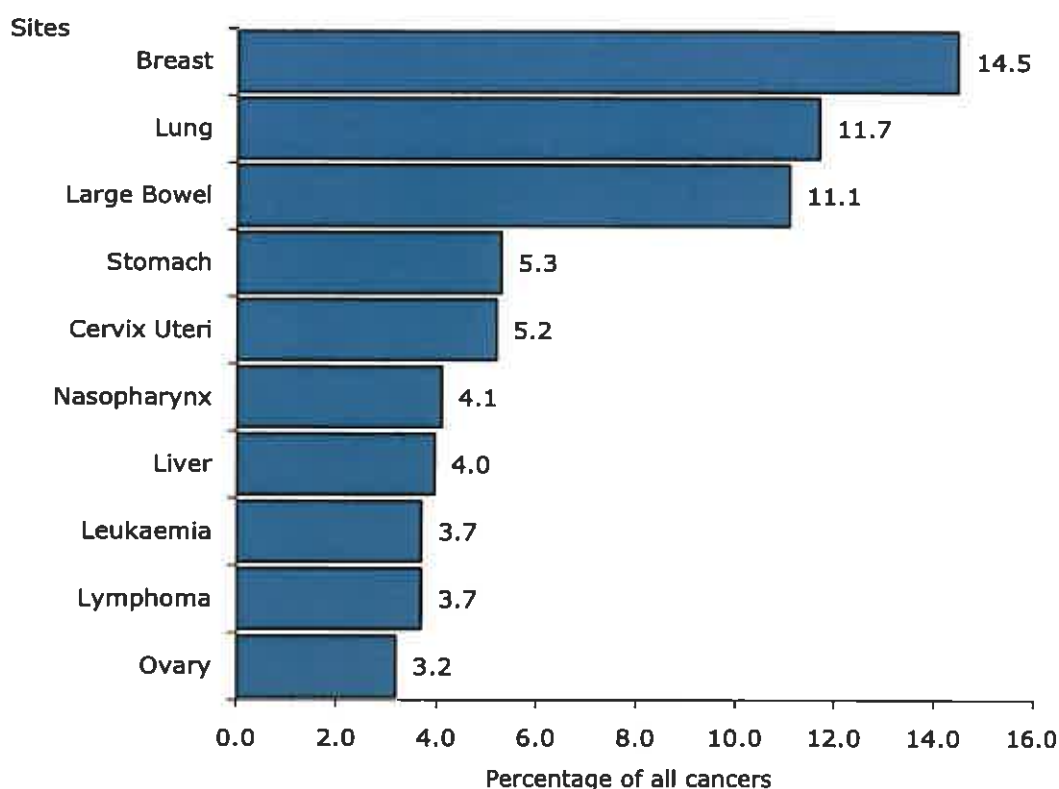


Figure 10: Ten most common cancers, all residents, Penang 1999-2003

Among female residents, breast was the most common site of cancer while for the male residents, the most common site was lung (Table 9).

Table 9: Ten most common cancers in Penang by sex, all residents, 2004-2008

ICD-10	SITES	MALE			
		No	(%)	CR	ASR
C33-C34	Lung	767	17.2	21.9	27.9
C18-C21	Large Bowel	711	15.9	20.3	25.6
C61	Prostate	376	8.4	10.7	15.1
C11	Nasopharynx	289	6.5	8.3	8.7
C22	Liver	263	5.9	7.5	9.0
C16	Stomach	228	5.1	6.5	8.3
C81-C85;C96	Lymphoma	225	5.0	6.4	7.3
C67	Bladder	191	4.3	5.5	7.0
C91-C94	Leukaemia	174	3.9	5.0	5.3
C44	Other Skin	137	3.1	3.9	4.9
	Others	1106	24.8		
All		4467	100.0	127.5	156.7

ICD-10	SITES	FEMALE			
		No	(%)	CR	ASR
C50	Breast	1699	32.5	48	48
C18-C21	Large Bowel	652	12.5	18.4	19.2
C53	Cervix Uteri	418	8.0	11.8	11.8
C33-C34	Lung	281	5.4	7.9	8.5
C56	Ovary	280	5.4	7.9	7.9
C54	Corpus Uteri	237	4.5	6.7	6.9
C16	Stomach	176	3.4	5.0	5.1
C91-C94	Leukaemia	161	3.1	4.6	4.8
C81-C85;C96	Lymphoma	144	2.8	4.0	4.1
C22	Liver	121	2.3	3.4	3.7
	Others	1056	20.2		
All		5225	100.0	147.7	150.9

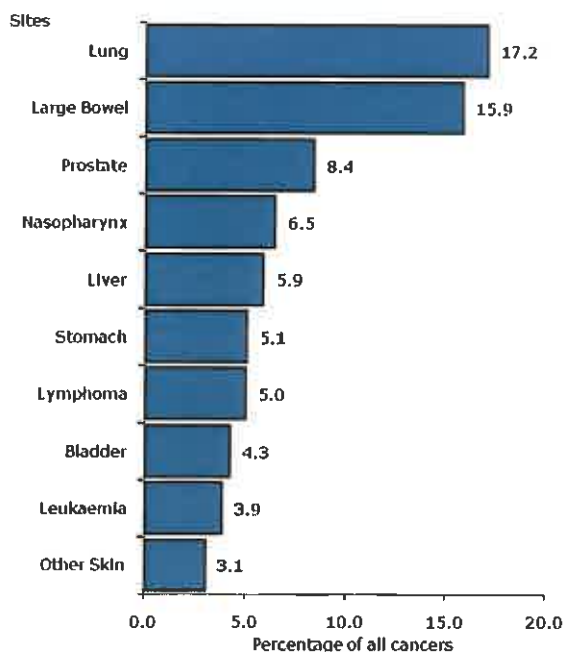


Figure 11: Ten most common cancers in males, Penang 2004-2008

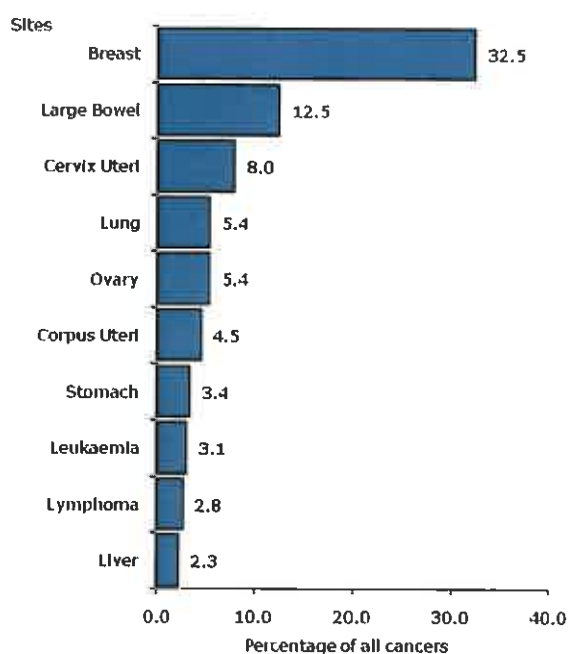


Figure 12: Ten most common cancers in females, Penang 2004-2008



4.2 Age variations

The incidence of cancer increased for both males and females after the age of 30 years (Figure 13). The incidence rate in males exceeded the incidence rate in females after the age of 60 years. The median age in years at diagnosis for males was 61 and for females 56.

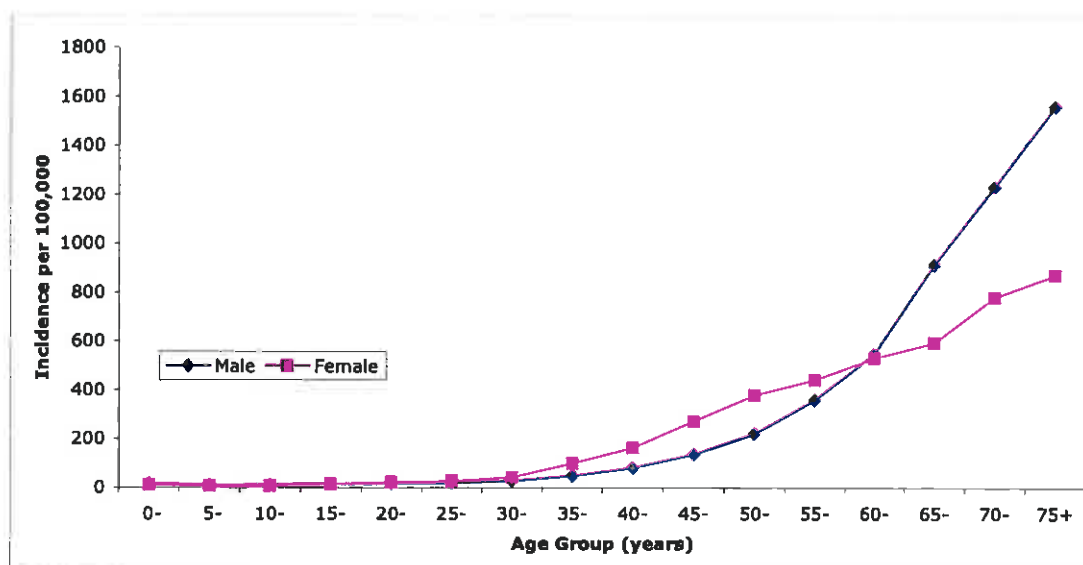


Figure 13: Average annual age-specific incidence rate, all sites, by sex, Penang 2004-2008

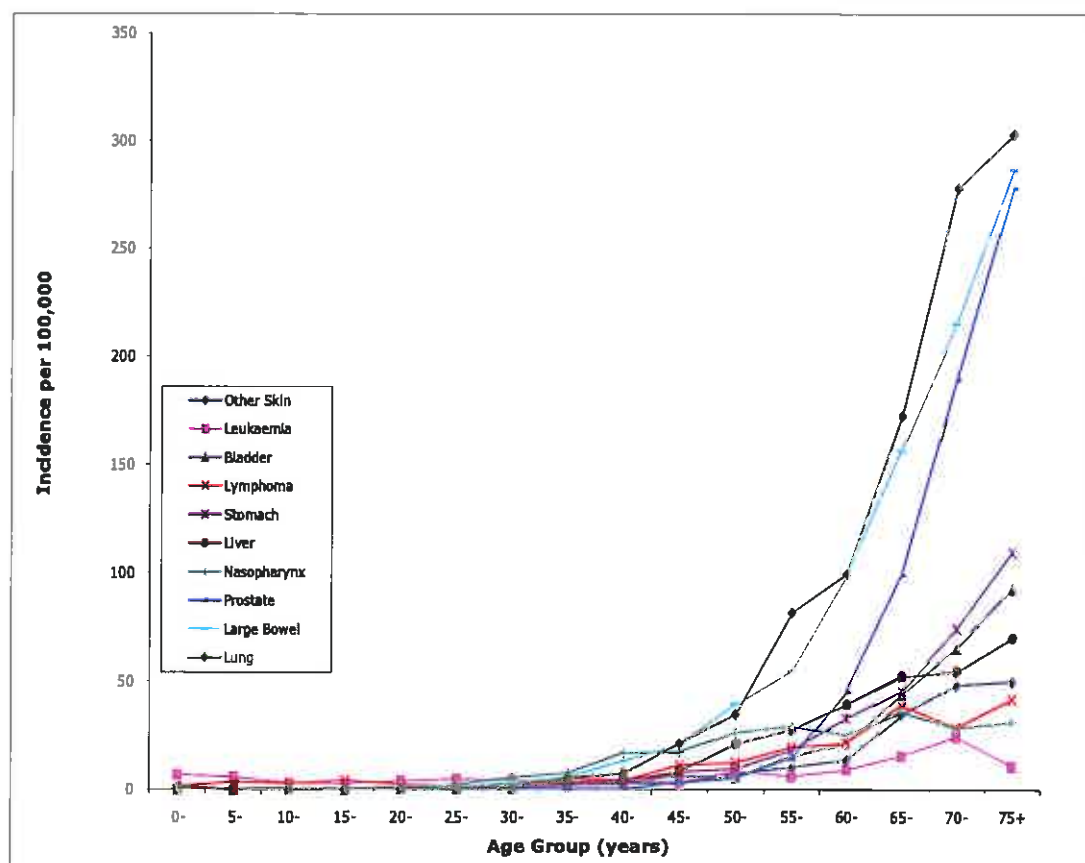


Figure 14: Average annual age-specific incidence rate for ten common sites, males, Penang 2004-2008

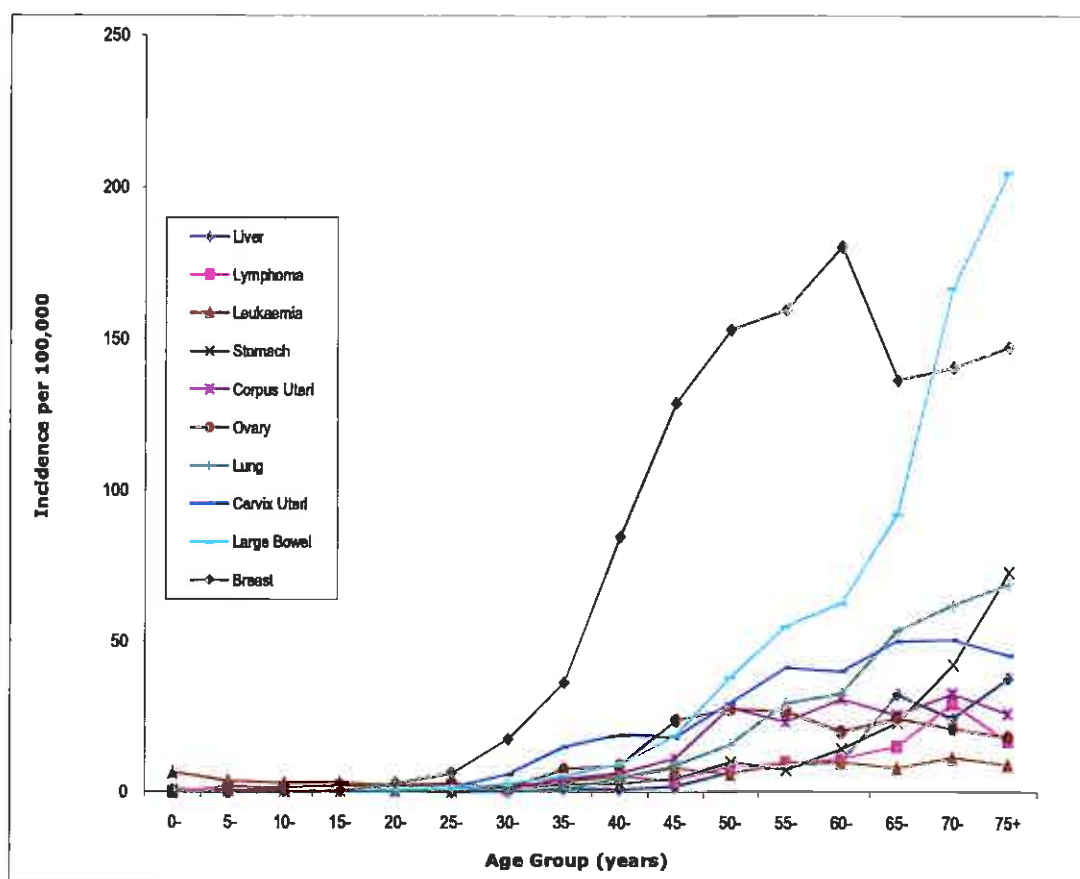


Figure 15: Average annual age-specific incidence rate for ten common sites, females, Penang 2004-2008



4.3 Ethnic variations

The five most common cancer sites among Chinese males were lung (ASR 32.7), large bowel (ASR 31.1), prostate (ASR 18.2), nasopharynx (ASR 13.4), liver (ASR 11.8) and stomach (ASR 10.4). For Chinese females, the most common sites were breast (ASR 57.3), followed by large bowel (ASR 24.2), cervix uteri (ASR 14.5), lung (ASR 10.8) and ovary (ASR 7.9).

Common cancer sites among Indian males were large bowel (ASR 20.7), lung (ASR 17.8), prostate (ASR 12.7) Bladder (ASR 8.1) and stomach (ASR 7.5). For Indian females, they were breast (ASR 52.5), corpus uteri (ASR 14.3), cervix uteri (ASR 12.6), large bowel (ASR 11.8) and ovary (ASR 10.4).

Among Malay males, the most common sites were lung (ASR 20.6), large bowel (ASR 15.4), leukaemia (6.2), lymphoma (ASR 6.4) and prostate (ASR 8.8). For Malay females, they were breast (ASR 31.0), large bowel (ASR 10.8), cervix uteri (ASR 7.4), ovary (ASR 6.8) and corpus uteri (ASR 5.8).

Chinese males had the highest incidence in most of the ten common sites except for bladder (highest in Indians); and leukaemia (highest in Malays).

A similar pattern was seen among Chinese females but Indians had the highest incidence for ovary, corpus uteri stomach and liver. Malays had the lowest incident for all 10 leading cancer except for lymphoma. (second higher after Chinese in both sexes).

Table 10: Age-standardised rates for ten leading cancer sites in males by ethnicity, Penang, 2004-2008

Sites	Ethnic Groups		
	Malay	Chinese	Indian
Lung	20.6	32.7	17.8
Large Bowel	15.4	31.1	20.7
Prostate	8.8	18.2	12.7
Nasopharynx	3.1	13.4	2.5
Liver	4.8	11.8	4.3
Stomach	4.1	10.4	7.5
Lymphoma	6.4	7.5	5.9
Bladder	7.2	6.8	8.1
Leukaemia	6.2	4.7	5.1
Other Skin	2.0	6.4	2.5

Table 11: Age-standardised rates for ten leading cancer sites in females by ethnicity, Penang, 2004-2008

Sites	Ethnic Groups		
	Malay	Chinese	Indians
Breast	31.0	57.3	52.5
Large Bowel	10.8	24.2	11.8
Cervix Uteri	7.4	14.5	12.6
Lung	4.7	10.8	5.4
Ovary	6.8	7.9	10.4
Corpus Uteri	5.8	6.3	14.3
Stomach	2.0	6.4	7.0
Leukaemia	4.0	5.4	4.7
Lymphoma	3.7	4.6	2.7
Liver	2.3	4.2	4.7

Table 12: Ten most common cancers in Penang, Malay residents, 2004-2008

ICD-10	SITES	MALES			
		NO.	%	CR	ASR
C33-C34	Lung	174	17.4	11.4	20.6
C18-21	Large Bowel	132	13.2	8.6	15.4
C91-95	Leukaemia	83	8.3	5.3	6.2
C81-C85;C96	Lymphoma	75	7.5	4.9	6.4
C61	Prostate	62	6.2	4.1	8.8
C67	Bladder	58	5.8	3.8	7.2
C22	Liver	48	4.8	3.1	4.8
C70-C72	Brain, Nervous system	43	4.3	2.8	3.4
C16	Stomach	36	3.6	2.4	4.1
C11	Nasopharynx	32	3.2	2.1	3.1
	Others	257	25.7		
	All	1000	100.0	65.3	105.6

ICD-10	SITES	FEMALES			
		NO.	%	CR	ASR
C50	Breast	392	32.3	25.1	31
C18-21	Large Bowel	118	9.7	7.5	10.8
C53	Cervix Uteri	89	7.3	5.7	7.4
C56	Ovary	87	7.2	5.6	6.8
C54	Corpus Uteri	65	5.3	4.2	5.8
C91-95	Leukaemia	58	4.8	3.7	4
C33-C34	Lung	51	4.2	3.3	4.7
C81-C85;C96	Lymphoma	45	3.7	2.9	3.7
C70-C72	Brain, Nervous system	26	2.1	1.7	1.9
C22	Liver	25	2.1	1.6	2.3
	Others	259	21.3		
	All	1215	100.0	65.8	86.3

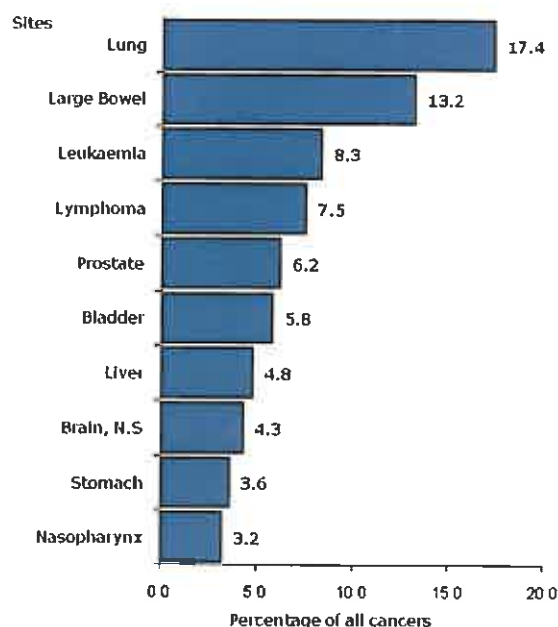


Figure 16: Ten most common cancers in Malay males, Penang, 2004-2008

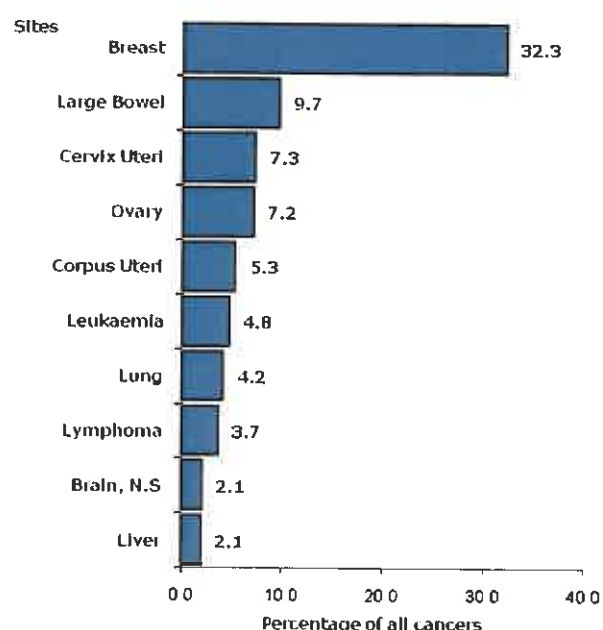


Figure 17: Ten most common cancers in Malay females, Penang, 2004-2008

Table 13: Ten most common cancers in Penang, Chinese residents, 2004-2008

		MALES			
ICD-10	SITES	NO.	%	CR	ASR
C33-C34	Lung	543	17.5	34.1	32.7
C18-C21	Large Bowel	522	16.8	32.7	31.1
C61	Prostate	285	9.2	17.9	18.2
C11	Nasopharynx	251	8.1	15.8	13.4
C22	Liver	203	6.5	12.7	11.8
C16	Stomach	172	5.5	10.8	10.4
C81-C85;C96	Lymphoma	127	4.1	8.0	7.5
C67	Bladder	113	3.6	7.1	6.8
C44	Other Skin	105	3.4	6.6	6.4
C64	Kidney	81	2.6	5.1	4.7
	Others	701	22.6		
All		3103	100.0	194.8	185.1
		FEMALES			
ICD-10	SITES	NO.	%	CR	ASR
C50	Breast	1115	32.4	70.4	57.3
C18-C21	Large Bowel	493	14.3	31.1	24.2
C53	Cervix Uteri	284	8.3	17.9	14.5
C33-C34	Lung	212	6.2	13.4	10.8
C56	Ovary	153	4.5	9.7	7.9
C16	Stomach	134	3.9	8.5	6.4
C54	Corpus Uteri	124	3.6	7.8	6.3
C81-C85;C96	Lymphoma	88	2.6	5.5	4.6
C91-95	Leukaemia	86	2.5	5.4	5.4
C22	Liver	81	2.4	5.1	4.2
	Others	668	19.4		
All		3438	100.0	217.1	176.4

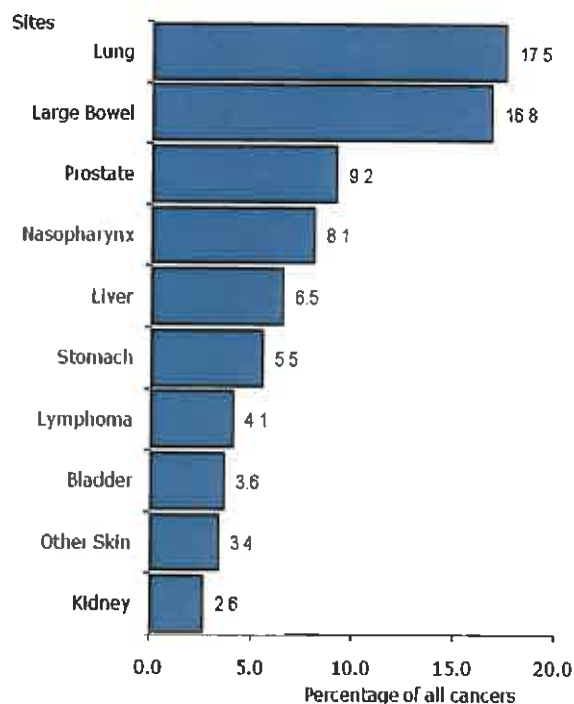
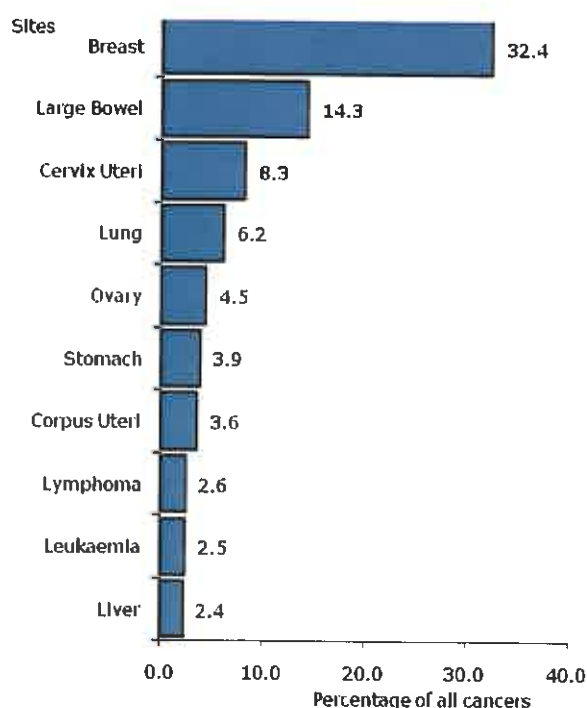
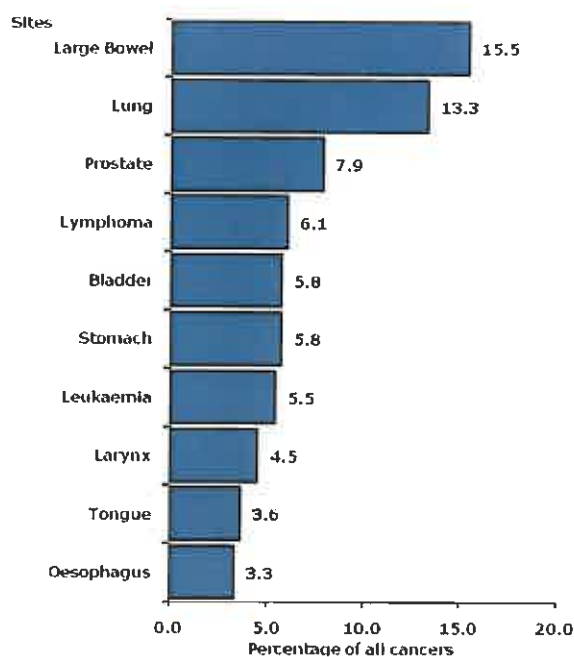
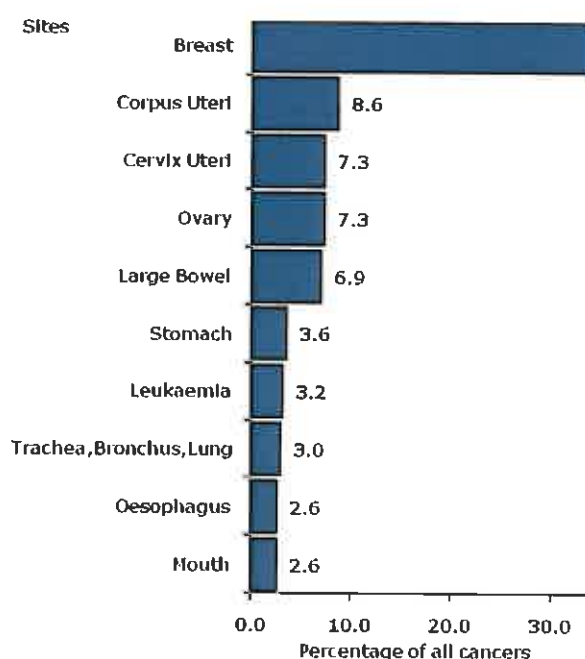
**Figure 18: Ten most common cancers in Chinese males, Penang, 2004-2008****Figure 19: Ten most common cancers in Chinese females, Penang, 2004-2008**

Table 14: Ten most common cancers in Penang, Indian residents, 2004-2008

ICD-10	SITES	MALES			
		NO.	%	CR	ASR
C18-21	Large Bowel	51	15.5	14.0	20.7
C33-C34	Lung	44	13.3	12.1	17.8
C61	Prostate	26	7.9	7.1	12.7
C81-C85;C96	Lymphoma	20	6.1	5.4	5.9
C16	Stomach	19	5.8	5.2	7.5
C67	Bladder	19	5.8	5.2	8.1
C91-95	Leukaemia	18	5.5	4.9	5.1
C32	Larynx	15	4.5	4.1	5.8
C01-C02	Tongue	12	3.6	3.3	4.6
C15	Oesophagus	11	3.3	3.0	4.8
Other	Others	95	28.8		
All		330	100.0	90.7	130.6
ICD-10	SITES	FEMALES			
		NO.	%	CR	ASR
C50	Breast	182	34.1	48.6	52.5
C54	Corpus Uteri	46	8.6	12.3	14.3
C53	Cervix Uteri	39	7.3	10.4	12.6
C56	Ovary	39	7.3	10.4	10.4
C18-21	Large Bowel	37	6.9	9.9	11.8
C16	Stomach	19	3.6	5.1	7.0
C91-95	Leukaemia	17	3.2	4.5	4.7
C33-C34	Lung	16	3.0	4.3	5.4
C03-C06	Mouth	14	2.6	3.7	5.6
C15	Oesophagus	14	2.6	3.7	4.9
Other	Others	111	20.8		
All		534	100.0	142.5	164.4


Figure 20: Ten most common cancers in Indian males, Penang, 2004-2008

Figure 21: Ten most common cancers in Indian females, Penang, 2004-2008

4.4 Staging

Out of the 9692 incident cancer cases registered, staging was reported for 4943 (51.0%). Of these, 996 (20.1%) were reported as stage I, 1338 (27.1%) as stage II, 1170 (23.7%) as stage III, and 1439 (29.1%) as stage IV. Thus at diagnosis, of those staged, 2609 (52.8%) were observed to have advanced cancers (classified as either stage III or IV). Table 15 shows the staging for cancers that may be detected by early screening.

Table 15: Reported staging (I-IV) for cancers that may be detected by early screening

SITES	SEX	STAGE I(%)	STAGE II(%)	STAGE III(%)	STAGE IV(%)
Breast	M	22.2	22.2	55.6	0.0
	F	23.5	46.1	17.3	13.1
Large Bowel	M	12.2	32.5	25.5	29.8
	F	12.1	28.4	30.4	29.1
Cervix Uteri	F	29.3	30.3	26.3	14.1
Nasopharynx	M	9.3	28.6	36.3	25.8
	F	12.7	25.5	41.8	20.0
Prostate	M	10.8	40.1	19.0	30.2
Thyroid	M	18.2	18.2	27.3	36.4
	F	56.8	15.9	11.4	15.9
Tongue	M	15.8	15.8	31.6	36.8
	F	42.9	14.3	28.6	14.3
Mouth	M	0.0	20.0	26.7	53.3
	F	0.0	16.7	25.0	58.3
Testis	M	46.2	30.8	0.0	23.1
Melanoma of Skin	M	20.0	0.0	20.0	60.0
	F	0.0	25.0	50.0	25.0

4.5 Validity

Validity can be defined as the proportion of cases in a data-set which truly have the reported attribute. The Penang Cancer Registry (PCR) has used the same five common indices as Cancer Incidence in Five Continents (C15), Vol IX, which are (a) internal consistency; (b) Histological verification; (c) death certificate only (DCO); (d) Other and unspecified cases (ill-defined cases) and (e) age unknown.

- Internal consistency: The PCR uses the IARC/IACR CHECK program to perform consistency checks on the cancer notifications. All cases queried are checked by the registry staff, using the software program, before incorporating relevant items into the database.
- Histological verification: The accuracy of the stated diagnosis is likely to be higher if there is histological confirmation by a pathologist or cytology/haematology confirmation. As the PCR does not distinguish between histology and cytology/haematology verification, morphologically verified (MV) is used rather than histological verification. For cancers with specified sites, the morphologically verified proportion was 94.0% of all cases for both sexes.
- Death Certificate Only (DCO): All the death notified by the public and private health facilities to the registry were traced. There was no death notification available from the registry departments.
- Other and unspecified cases (ill-defined cases): For this category, the percentage was 3.0% (3.7% for males and 2.6% for females) which was lower compared to the previous report (total: 7.0%; males: 8.3%, Females: 5.7%). A low proportion of cases that are assigned to this category generally implies a better diagnostic precision in determining the site of primary cancer.
- Age unknown: If there is a large number of cases with age unknown, several of the figures and graphs from the data-set would not be accurate. In this report, all the ages were known.

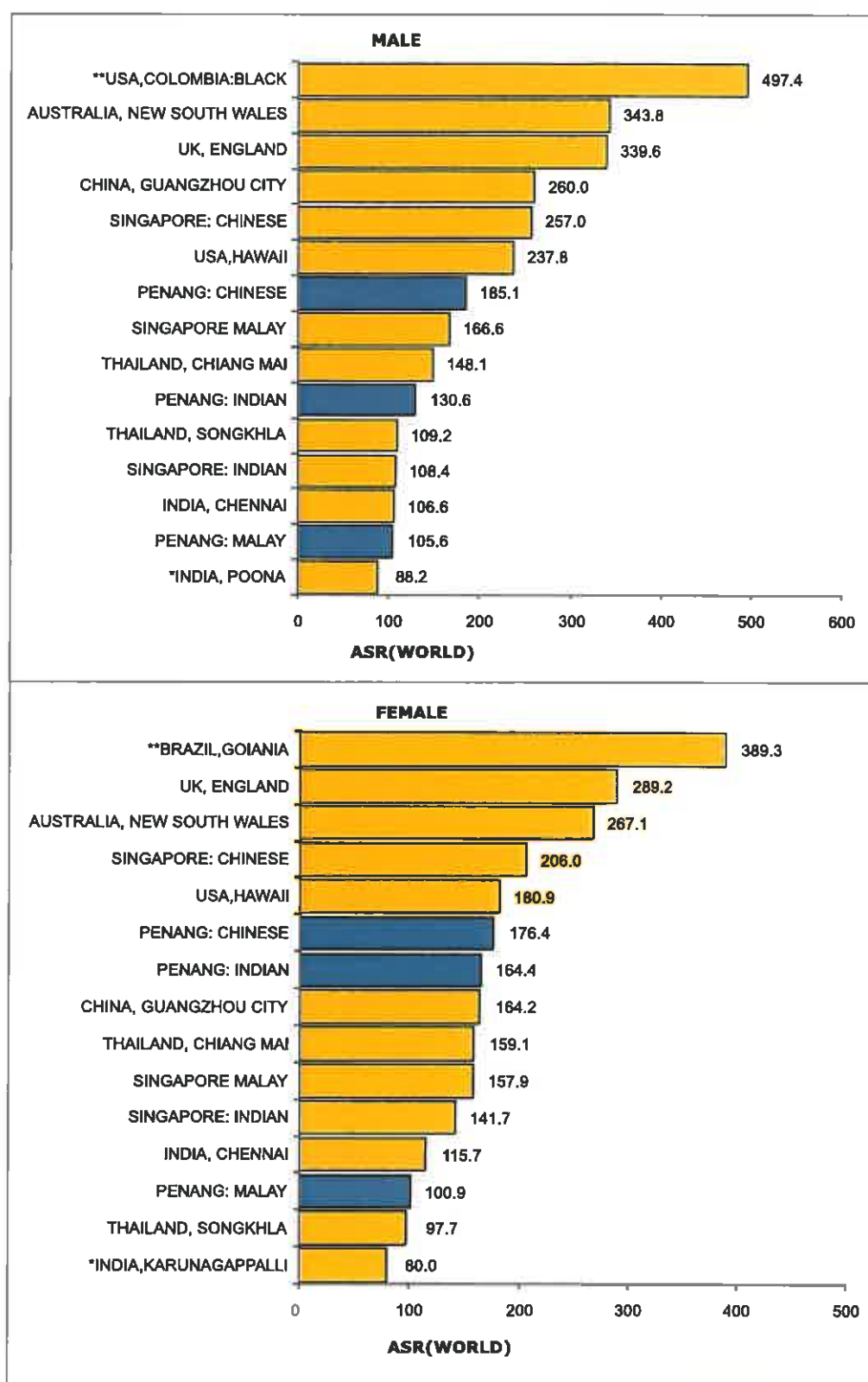
**Table 16: Percentage of some of microscopically verified cases in males
(unless otherwise specified) - comparison with selected registries (CI5 Vol. IX, 2007)**

SITES	PENANG (2004- 2008)	SOUTH AUSTRALIA	CANADA ALBERTA	UK, ENGLAND (western)	CHINA ZHONGSHEN	INDIA, CHENNAI	SINGAPORE	THAILAND, CHIANG MAI
OESOPHAGUS	97.3	96.4	95.1	90.7	95.5	74.9	96.7	90.5
LIVER	68.0	39.3	63.5	43.8	41.2	68.8	30.1	46.3
LUNG	88.1	83.0	83.8	66.2	54.4	52.1	87.3	73.1
CERVIX UTERI	98.3	99.2	99.0	95.0	100	88.4	98.8	98.6
OVARY	97.1	88.3	92.5	81.6	89.9	62.8	95.5	94.9
FEMALE BREAST	98.2	100.0	96.0	90.1	100	79.1	95.5	100.0
TESTIS	100.0	97.3	99.3	98.7	91.7	82.7	97.6	87.5
BLADDER	93.5	95.9	98.0	94.8	88.2	71.4	97.7	94.5
BRAIN, N.S	77.4	78.1	84.8	72.1	79.7	85.0	88.2	62.5
THYROID	98.5	100	99.3	89.5	100.0	65.9	99.4	95.3
LARGE BOWEL	96.2	93.9	96.0	90.7	95.8	77.0	97.0	88.7
LYMPHOMA	97.8	95.5	96.9	89.4	98.8	98.7	100.0	100.0
LEUKAEMIA	99.7	92.6	99.5	70.0	100.0	96.3	100.0	100.0

5. RESULTS

5.1 All sites from 1994-2008

YEARS	MALES					FEMALES				
	NO.	CR	CR74	ASR	(ASR 95% CL)	NO.	CR	CR74	ASR	(ASR 95% CL)
2004	814	119.1	17.46	149.3	(139.04, 160.07)	1037	154.4	17.56	157.3	(147.91, 167.34)
2005	846	122.5	17.84	154.0	(143.30, 164.46)	1021	146.2	16.88	150.7	(141.27, 159.97)
2006	889	127.0	18.09	154.6	(144.10, 164.85)	973	137.7	15.72	140.2	(131.23, 149.05)
2007	904	127.5	17.82	154.1	(143.71, 164.21)	1059	147.8	17.00	150.0	(140.79, 159.06)
2008	1014	140.5	19.87	169.6	(159.26, 180.56)	1135	155.5	17.29	154.7	(145.92, 164.16)
2004 - 2008										
ALL RESIDENTS	4467	127.5	18.30	156.7	(152.05, 161.44)	5225	147.7	16.84	150.9	(146.08, 154.35)
MALAY	1000	65.3	11.84	105.6	(98.64, 112.61)	1215	77.8	11.26	100.9	(95.07, 106.82)
CHINESE	3103	194.8	21.59	185.1	(178.62, 191.79)	3438	217.1	19.67	176.4	(170.47, 182.42)
INDIAN	330	90.7	15.55	130.6	(115.74, 145.62)	534	142.5	19.19	164.4	(149.94, 178.99)
TIMUR LAUT	2118	189.7	23.81	208.4	(199.50, 217.50)	2541	219.2	22.41	200.6	(192.78, 208.54)
BARAT DAYA	512	109.7	18.81	153.1	(139.40, 166.91)	584	121.5	15.68	138.3	(126.94, 149.77)
SPU	647	90.5	14.91	122.9	(113.21, 132.24)	746	104.7	13.38	116.8	(108.34, 125.40)
SPT	852	101.1	14.74	125.3	(116.68, 133.94)	990	118.8	13.75	122.9	(115.19, 130.70)
SPS	338	94.0	13.42	115.6	(102.94, 128.30)	364	103.5	12.05	105.7	(94.73, 116.79)
1999 - 2003										
ALL RESIDENTS	3514	108.0	16.50	141.3	(136.51, 146.08)	4039	53.5	15.14	135.6	(131.31, 139.78)
MALAY	767	56.5	10.88	89.8	(83.12, 96.55)	910	65.8	9.50	86.3	(80.49, 92.14)
CHINESE	2422	158.6	19.43	167.8	(160.96, 174.51)	2653	175.2	17.59	157.8	(151.74, 163.85)
INDIAN	297	85.5	14.97	133.1	(117.21, 148.96)	452	128.4	19.03	161.3	(145.81, 176.82)
TIMUR LAUT	1652	154.1	19.76	170.4	(162.06, 178.72)	1934	175.8	17.87	163.2	(155.79, 170.47)
BARAT DAYA	409	97.3	15.48	141.7	(127.37, 156.04)	474	108.9	15.66	132.3	(120.15, 144.49)
SPU	540	82.0	13.93	111.1	(101.50, 120.73)	625	94.9	12.82	114.7	(105.52, 123.90)
SPT	653	83.9	13.89	122.6	(112.78, 132.31)	753	97.7	13.32	114.9	(106.50, 123.32)
SPS	260	80.1	14.20	113.9	(99.61, 128.14)	254	80.3	10.43	94.6	(82.74, 106.43)
1994 - 1998										
ALL RESIDENTS	3294	114.3	18.66	157.8	(152.29, 163.32)	3745	127.5	16.34	146.6	(141.81, 151.36)
MALAY	571	50.6	9.60	81.5	(74.56, 88.54)	687	58.3	8.89	80.2	(73.99, 86.42)
CHINESE	2395	169.0	24.08	200.3	(192.04, 208.38)	2633	184.6	19.80	177.9	(170.87, 184.64)
INDIAN	302	95.3	17.52	149.8	(132.51, 167.27)	404	128.9	20.50	177.3	(159.28, 195.47)
TIMUR LAUT	1701	166.2	23.44	194.4	(185.01, 203.81)	1935	181.0	20.06	177.9	(169.69, 185.79)
BARAT DAYA	354	103.0	18.03	158.9	(141.88, 176.00)	360	100.7	14.56	133.5	(119.37, 147.71)
SPU	484	80.0	13.46	113.0	(102.46, 123.08)	603	98.7	14.43	116.5	(107.11, 126.05)
SPT	515	77.5	15.00	130.2	(118.52, 142.08)	640	96.2	14.52	129.4	(119.10, 139.76)
SPS	239	103.5	17.51	145.3	(126.45, 164.26)	204	88.0	12/75	107.2	(92.25, 122.20)



** The highest incidence from CI5 Volume IX

* The lowest incidence from CI5 Volume IX

Figure 22: All Sites : International comparisons – annual age standardised rates per 100,000

6. COMMENTARY ON 15 SELECTED CANCER SITES

In this section, cancers are reviewed focussing on ethnic variations, staging as well as annual and district distributions. International comparisons are made with Singapore (Singapore Cancer Registry, Interim Report: Trends in Cancer Incidence in Singapore 2004 – 2008) and other countries (Cancer Incidence in Five Continents Volume IX, 2007). Fifteen most common cancers (male and female combined) were selected.

6.1 Female Breast (ICD-10: C50)

The most common cancer among females was cancer of the breast with 1699 cases (ASR 48.0) compared with 1087 cases in the 1999-2003 report. Breast cancer accounted for 17.7% of all cancers in Penang, compared to 14.5% over the period 1999-2003. The Chinese (ASR 57.4) had the highest incidence followed by Indians (ASR 52.5). The Malays (ASR 31.8) had the lowest incidence. The youngest age group at which notification of breast cancer was received was 20-24 years. The peak age was 60-64 years. Staging was reported 1091 cases (64.2%). Of these, 23.5% were diagnosed at stage I, 46.1% at stage II, 17.3% at stage III and 13.1% at stage IV.

The cumulative risk for all females was 5.1, it was 6.1 for Chinese, 5.8 for Indian and 3.1 for Malays. The life time risk for all females was 1 in 20. For Chinese it was 1 in 16, Indians 1 in 17 and Malays 1 in 32.

64.2% of all cases were staged of whom 69.6% were first detected at the early stages of I and II.

International comparisons show that, the highest incidence rate was for USA,HAWAII:HAWAIIAN (ASR 118.9) while the lowest was for OMAN:OMANI (ASR 14.6) . In comparison with Singapore (2004-2008), the relativity of Chinese and Indian rates was similar (ASR 60.9 and 49.6 respectively) though Singapore rates were higher than Penang rates. Notably, the Singaporean Malay rate of 56.2 has overtaken the rate for Indians as compared with the 1998-2002 report.

YEAR	ALL RESIDENTS FEMALES				
	NO.	CR	CR74	ASR	(ASR 95%CL)
2004 - 2008	1699	48.0	5.25	48.0	(45.67, 50.29)
1999 - 2003	1087	33.2	3.82	35.5	(33.34, 37.61)
1994 - 1998	912	31.0	3.69	34.6	(32.30, 36.88)
2004	352	51.1	5.48	51.6	(46.16, 57.08)
2005	327	46.8	5.20	47.3	(42.10, 52.46)
2006	327	46.2	4.92	45.9	(40.89, 50.96)
2007	333	46.4	5.24	46.6	(41.58, 51.71)
2008	360	49.4	5.35	48.3	(43.25, 53.33)
2004 - 2008					
TIMUR LAUT	853	73.6	7.39	66.9	(62.41, 71.47)
BARAT DAYA	197	41.0	4.82	44.7	(38.37, 51.08)
SPU	229	32.2	3.75	34.9	(30.27, 39.46)
SPT	328	39.4	4.36	39.6	(35.29, 43.97)
SPS	92	26.2	2.67	24.9	(19.76, 30.11)

FEMALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	392	25.1	3.17	31.0	1115	70.4	6.31	57.4	182	48.6	5.98	52.5
1999 - 2003	281	20.3	2.71	25.8	690	45.6	4.39	40.6	114	32.4	4.10	37.3
1994 - 1998	171	14.5	2.07	19.4	648	45.4	4.60	43.1	89	28.4	3.75	35.2

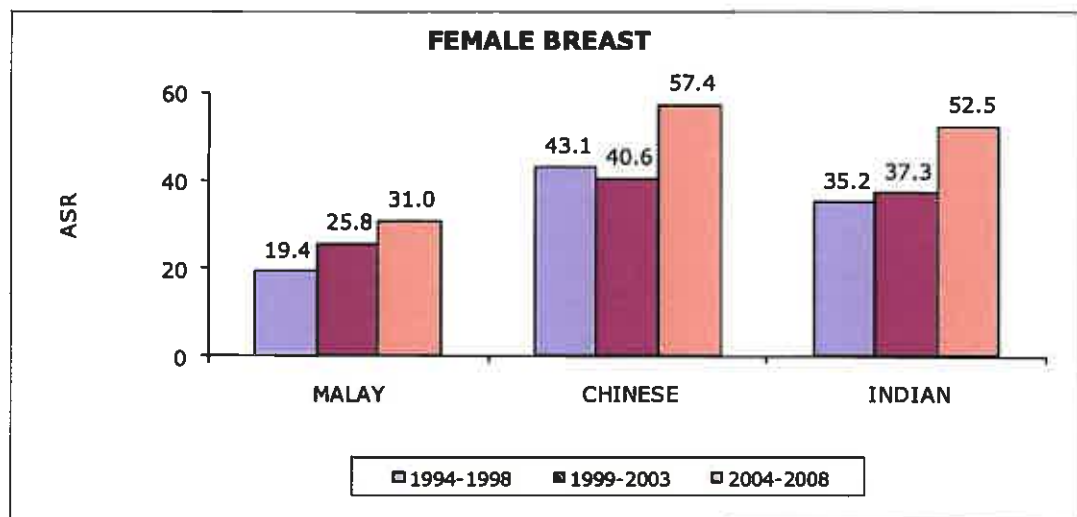


Figure 23. Female Breast: Ethnic Variations (1994-2008)– annual age-standardised rates per 100,000

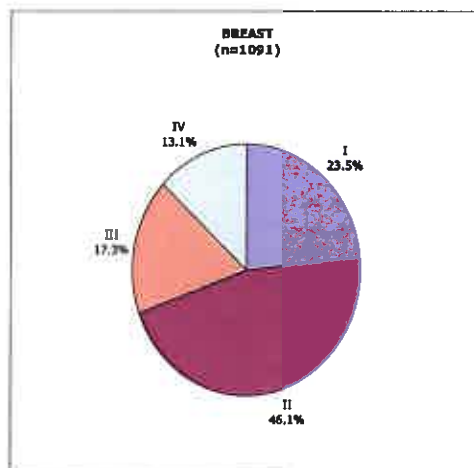


Figure 24. Female Breast: Stage

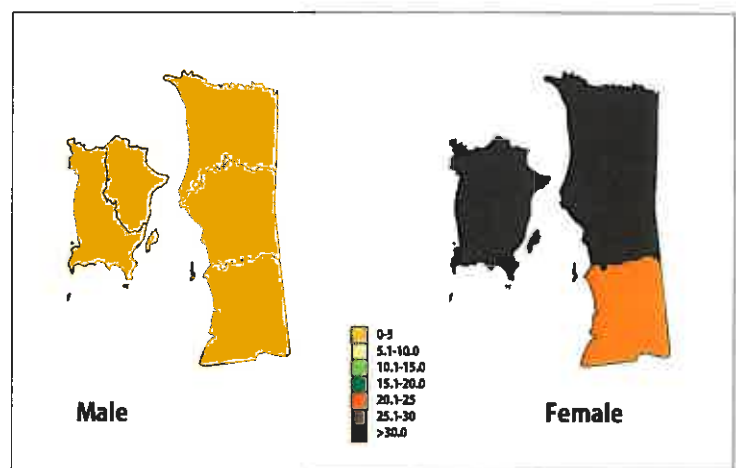
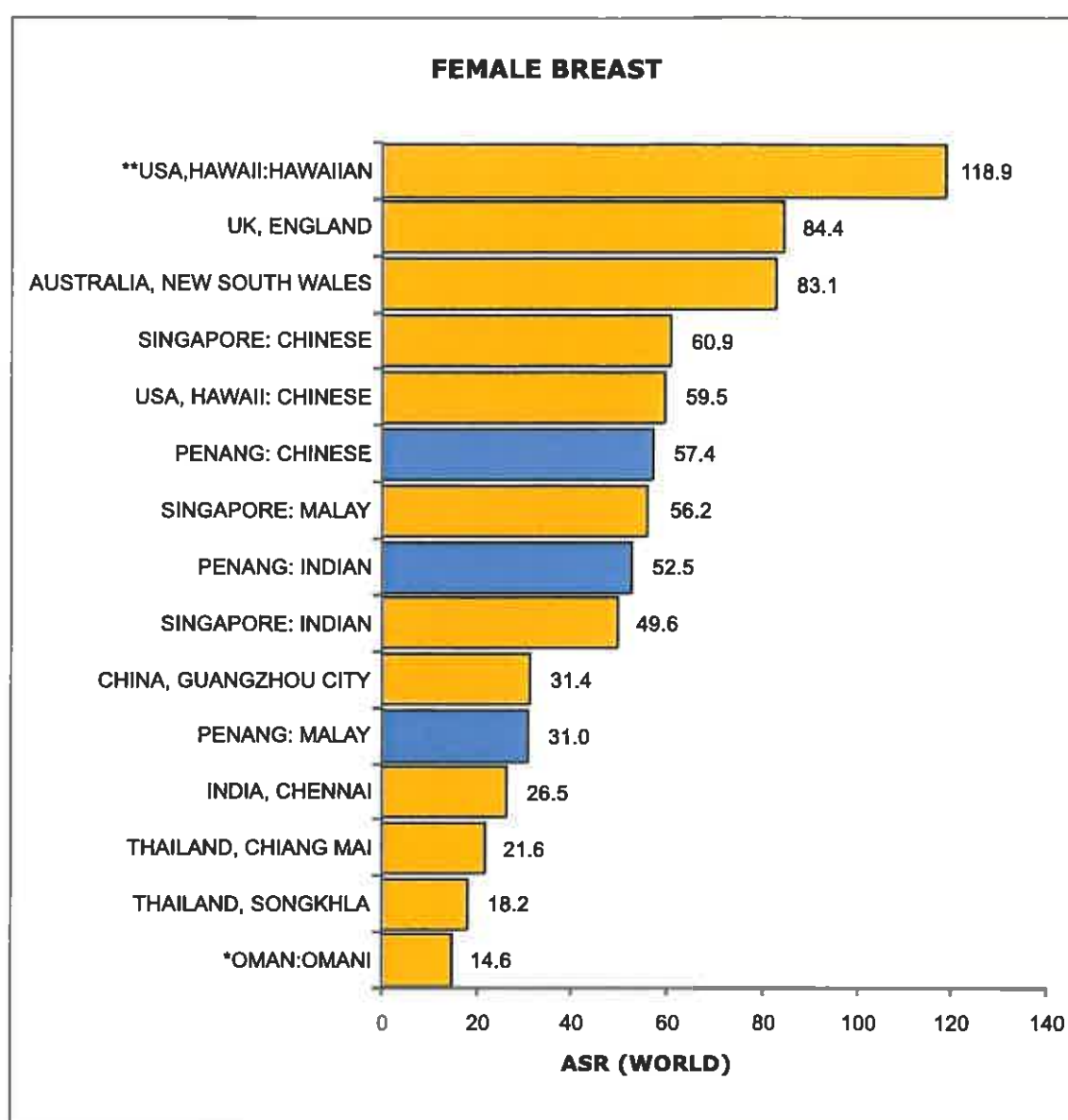


Figure 25. Female Breast : ASR by District



** The highest Incidence from CI5 Volume IX

* The lowest Incidence from CI5 Volume IX

Figure 26. Female Breast: International comparisons – annual age standardised rates per 100,000

6.2 Large bowel (ICD-10: C18-C21)

Large bowel cancer is the second most common cancer among males in Penang with 711 cases (ASR 25.6). The Chinese had the highest ASR of 31.1 followed by Indians at 20.7 and Malays 15.4. The cumulative risk for all males was 3.0. It was 3.7 for Chinese, 2.5 for Indians and 1.8 for Malays. The life time risk for all males was 1 in 33. For Chinese it was 1 in 28, Indians 1 in 41 and Malays 1 in 55.

Staging was reported for 329 cases (46.2%). Of these, 12.2% were diagnosed at stage I, 32.5% at stage II, 25.5 % at stage III and 29.8 % at stage IV.

Among females, large bowel cancer (652 cases with ASR 19.2) was ranked second after breast cancer. The trend was similar to the males as was the ethnic pattern. The cumulative risk for all females was 2.3. It was 2.8 for Chinese, 1.5 for Indians and 1.4 for Malays. The life time risk for all females was 1 in 45. For Chinese it was 1 in 36, Indians 1 in 67 and Malays 1 in 70.

Staging was reported for 313 cases (48.0%). Of these, 12.1% were diagnosed at stage I, 28.4% at stage II, 30.4% at stage III and 29.1% at stage IV.

International comparison, for Singapore males (2004-2008), the rates of large bowel cancer was higher for the Chinese (ASR 44.3) and Malays (ASR 28.0) but lower for Indians (ASR 18.9). For females, the Singapore rates were higher for all the ethnic groups, i.e. Chinese (ASR 31.8), the Malays (ASR 20.0) and Indians (ASR 12.5).

The highest incidence rate for both sexes was in Canada, Northwest-Territories (male ASR 71.7, Female ASR 45.6), while the lowest was in India, Karunagappally (Male ASR 4.1, Female ASR 3.6).

ALL RESIDENTS	MALE					FEMALE				
	NO.	CR	R74	ASR	(ASR 95%CL)	NO.	CR	R74	ASR	(ASR 95%CL)
2004 - 2008	711	20.3	3.04	25.6	(23.64, 27.46)	652	18.4	2.27	19.2	(17.74, 20.72)
1999 - 2003	458	14.1	2.35	19.3	(17.46, 21.06)	381	11.6	1.58	13.3	(11.92, 14.61)
1994 - 1998	349	12.1	2.05	17.3	(15.49, 19.20)	326	11.0	1.58	13.3	(11.87, 14.81)
2004	115	16.9	2.62	22.1	(17.98, 26.21)	135	19.5	3.23	25.6	(21.24, 30.01)
2005	155	22.1	3.40	27.2	(22.82, 31.58)	147	20.7	2.80	25.6	(21.38, 29.82)
2006	159	22.1	3.11	26.9	(22.62, 31.13)	135	19.6	2.46	21.4	(17.72, 25.01)
2007	130	18.6	2.24	19.5	(16.11, 22.88)	99	14.0	1.75	14.6	(11.72, 17.55)
2008	127	17.7	2.31	18.3	(15.05, 21.46)	161	22.1	2.56	22.1	(18.62, 25.50)
2004 - 2008										
TIMUR LAUT	352	31.5	3.91	34.8	(31.07, 38.42)	69	14.8	2.43	21.9	(16.56, 27.24)
BARAT DAYA	94	13.2	2.37	18.7	(14.79, 22.51)	142	16.9	2.91	21.9	(18.25, 25.63)
SPU	54	15.0	2.20	18.9	(13.73, 24.07)	316	27.3	2.99	25.0	(22.18, 27.74)
SPT	65	13.5	1.93	16.2	(12.18, 20.14)	81	11.4	1.53	13.0	(10.13, 15.89)
SPS	145	17.4	2.16	18.4	(15.38, 21.44)	45	12.8	1.60	13.5	(9.49, 17.48)

MALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	132	8.6	1.83	15.4	522	32.8	3.68	31.1	51	14.0	2.45	20.7
1999 - 2003	75	5.5	1.29	9.7	348	22.8	2.95	24.7	32	9.2	1.86	15.2
1994 - 1998	46	4.0	0.86	7.2	280	19.7	2.83	23.9	22	6.9	1.54	11.2

FEMALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	118	7.6	1.43	10.8	493	31.1	2.81	24.3	37	9.9	1.51	11.8
1999 - 2003	68	5.0	0.79	7.0	284	18.7	2.04	16.8	28	7.9	1.20	10.0
1994 - 1998	38	3.2	0.60	5.2	265	18.5	2.17	18.0	22	7.0	1.10	9.3

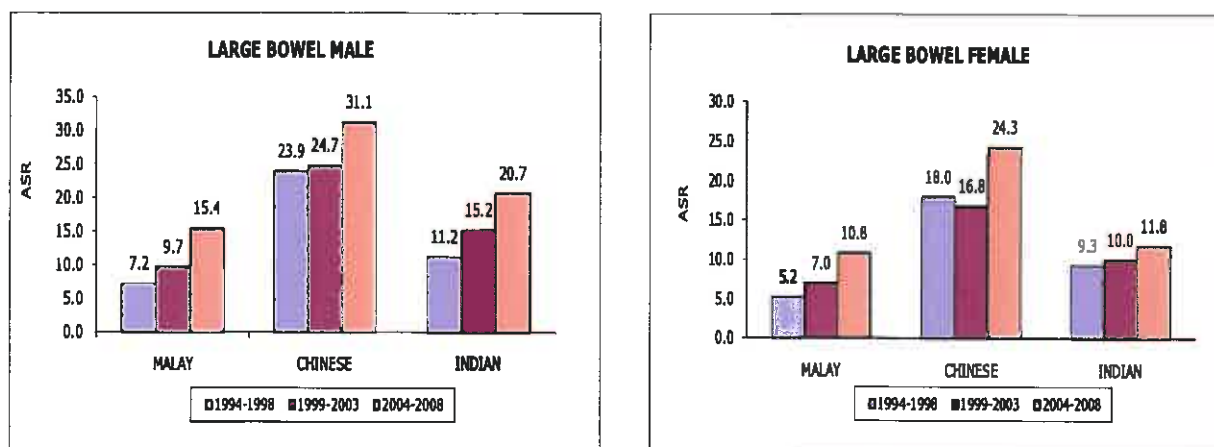


Figure 27. Large Bowel: Ethnic Variations (1994-2008) – annual age-standardised rates per 100,000

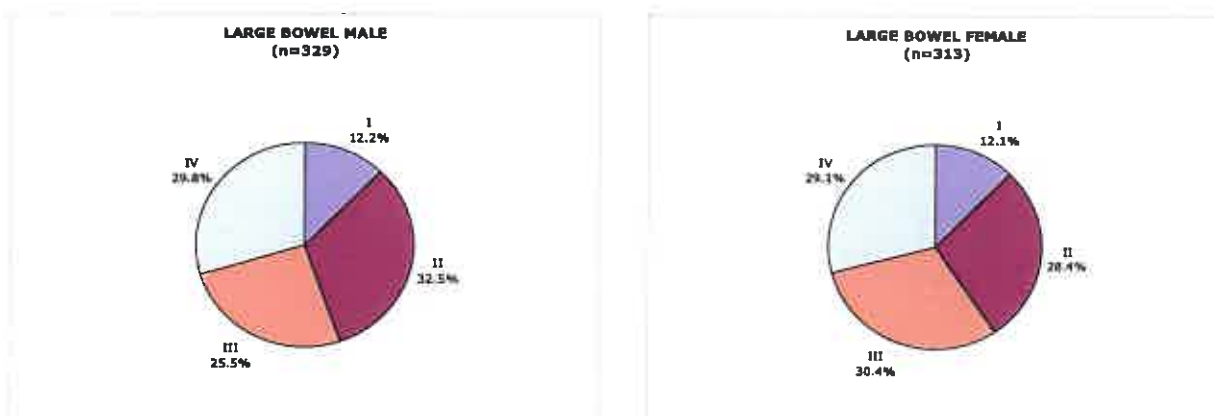


Figure 28. Large Bowel: Stage

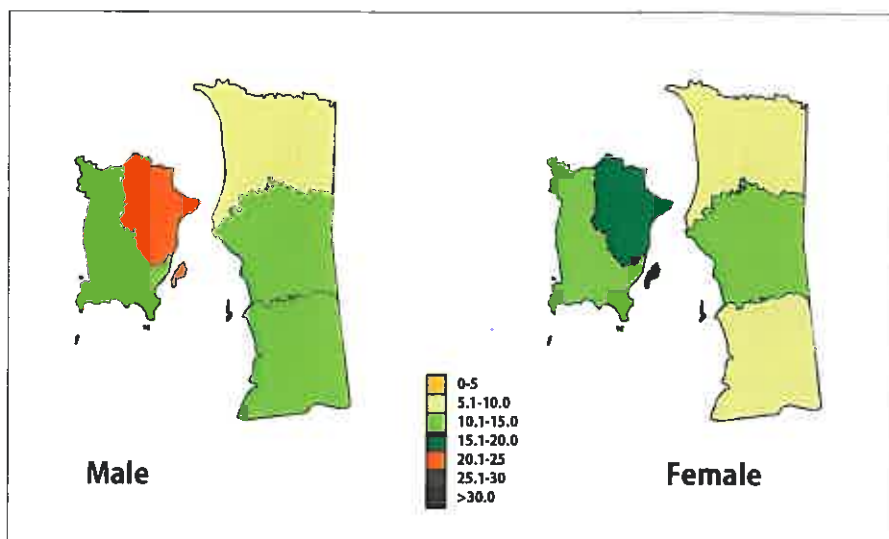
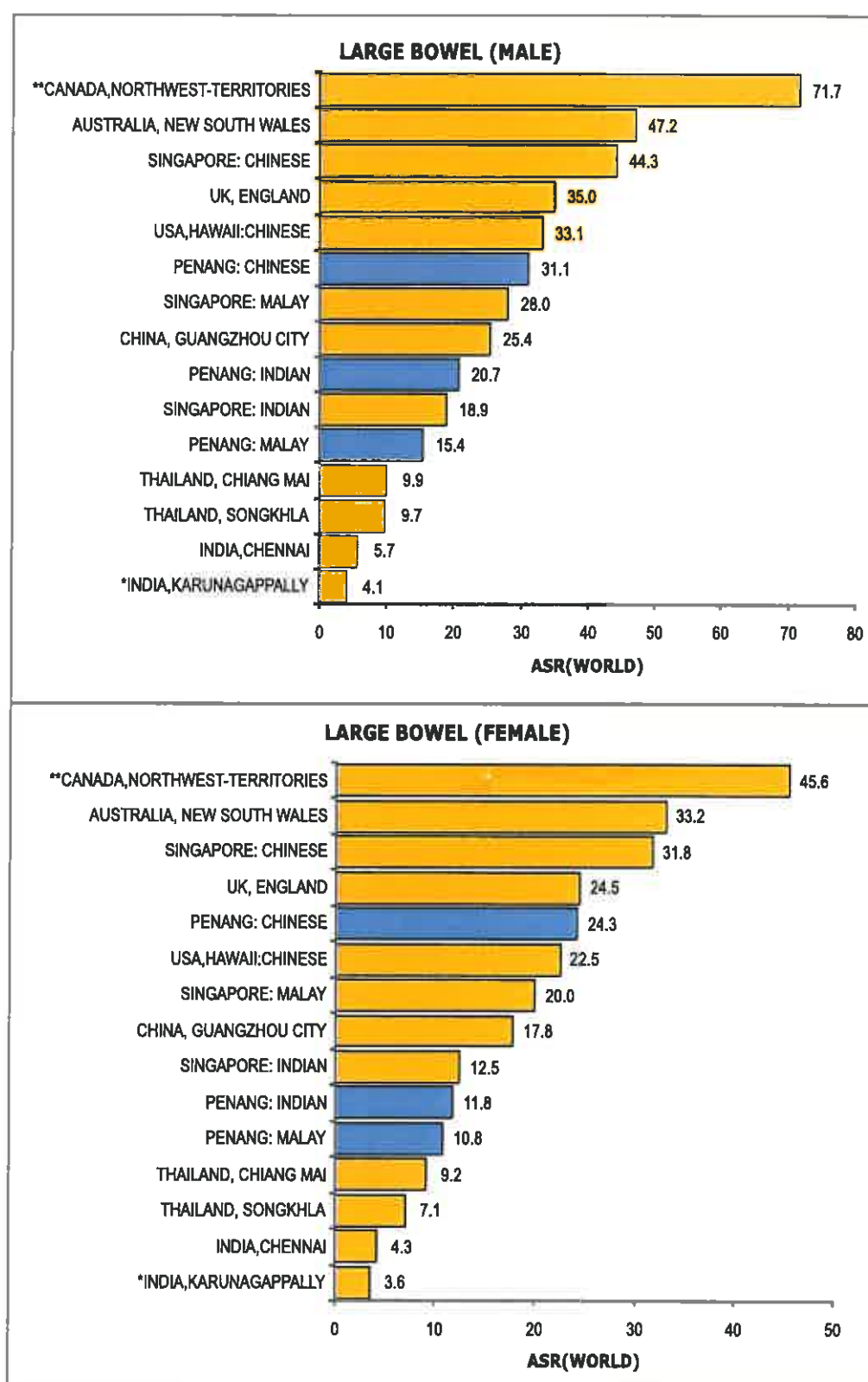


Figure 29. Colo-rectal: ASR by District



** The highest incidence from CI5 Volume IX

* The lowest incidence from CI5 Volume IX

Figure 30. Large Bowel : International comparisons – annual age standardised rates per 100,000

6.3 Bronchus, Lung (ICD-10: C33-C34)

Lung cancer was the most common cancer in males with 767 cases (ASR 28.0). The Chinese had the highest incidence (ASR 32.7) followed by Malays (ASR 20.6) and Indians (ASR 17.8). The cumulative risk for all males was 3.5. It was 4.2 for Chinese, 2.5 for Malays and 1.8 for Indians. The life time risk for all males was 1 in 29. For Chinese, it was 1 in 24, Malays 1 in 41 and for Indians 1 in 56.

Staging in males was reported for 431 cases (56%). Of these, 6.0 % were diagnosed at stage I, 5.1% at stage II, 38.7% at stage III and 50.1% at stage IV.

Cancer of the lung is the fourth most common cancer among females (281 cases with ASR of 8.5). The ethnic variation in females differed slightly from that in the males as the Malay females had the lowest incidence (ASR 4.7). The cumulative risk for all females was 1.0. It was 1.4 for Chinese, 0.6 for Indian and 0.5 for Malays. The life time risk for all females was 1 in 96. For Chinese it was 1 in 73, Indians 1 in 160 and Malays 1 in 198.

Staging in females was reported for 162 cases (57.6%). Of these, 3.7% were diagnosed at stage I, 9.9% at stage II, 29.0 % at stage III and 57.4% at stage IV. For both genders, over 80% of lung cancers were diagnosed late (stage III and IV).

International comparison show that Singapore rates (2004-2008) were higher both for males and females for the Chinese (Male ASR 43.1, female ASR 17.3) and the Malays (Males ASR 34.6, females ASR 12.7) but lower for Indians (Males ASR 17.6, Females ASR 3.7). The lowest rates was in Uganda, Kyadondo (ASR 4.8) for males and in Africa, Tunisia for females (ASR 1.7).

ALL RESIDENTS	MALE					FEMALE				
	NO.	CR	CR74	ASR	(ASR 95%CL)	NO.	CR	CR74	ASR	(ASR 95%CL)
2004 - 2008	767	21.9	3.51	28.0	(25.94, 29.96)	281	8.0	1.05	8.5	(7.46, 9.46)
1999 - 2003	655	20.1	3.49	27.8	(25.64, 29.98)	232	7.1	1.05	8.1	(7.08, 9.20)
1994 - 1998	664	23.0	4.46	34.3	(31.61, 36.88)	217	7.4	1.1	9.0	(7.80, 10.23)
2004	163	23.9	3.79	31.4	(26.48, 36.29)	52	7.6	1.06	8.4	(6.12, 10.75)
2005	150	21.7	3.48	28.3	(23.70, 32.90)	63	9.0	1.19	9.6	(7.23, 12.04)
2006	146	20.9	3.28	26.6	(22.17, 30.94)	46	6.5	0.95	7.1	(5.02, 9.15)
2007	142	20.0	3.06	24.3	(20.21, 28.35)	65	9.1	1.08	9.3	(7.05, 11.64)
2008	166	23.1	3.91	29.3	(24.81, 33.86)	55	7.6	0.96	7.7	(5.64, 9.74)
2004 - 2008										
TIMUR LAUT	346	31.0	4.33	34.7	(31.02, 38.43)	146	12.6	1.41	11.8	(9.83, 13.68)
BARAT DAYA	95	20.4	4.16	31.2	(24.81, 37.64)	30	6.2	1.15	7.6	(4.85, 10.36)
SPU	111	15.5	3.00	22.0	(17.80, 26.19)	43	6.0	0.85	7.1	(4.97, 9.27)
SPT	155	18.4	2.81	23.7	(19.86, 27.47)	49	5.9	0.77	6.4	(4.59, 8.21)
SPS	60	16.7	2.40	21.8	(16.14, 27.39)	13	3.7	0.60	4.1	(1.84, 6.31)

MALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	174	11.4	2.45	20.6	543	34.1	4.18	32.7	44	12.1	1.79	17.8
1999 - 2003	138	10.2	2.26	18.3	462	30.3	4.23	32.9	46	13.2	2.50	22.1
1994 - 1998	116	10.3	2.61	19.4	503	35.5	5.81	44.6	43	13.6	3.05	21.9

FEMALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	51	3.3	0.51	4.7	212	13.4	1.37	10.8	16	4.3	0.63	5.4
1999 - 2003	43	3.1	0.54	4.5	180	11.9	1.42	10.8	9	2.6	0.43	3.8
1994 - 1998	30	2.5	0.49	3.7	174	12.2	1.49	12.1	11	3.5	0.64	5.2

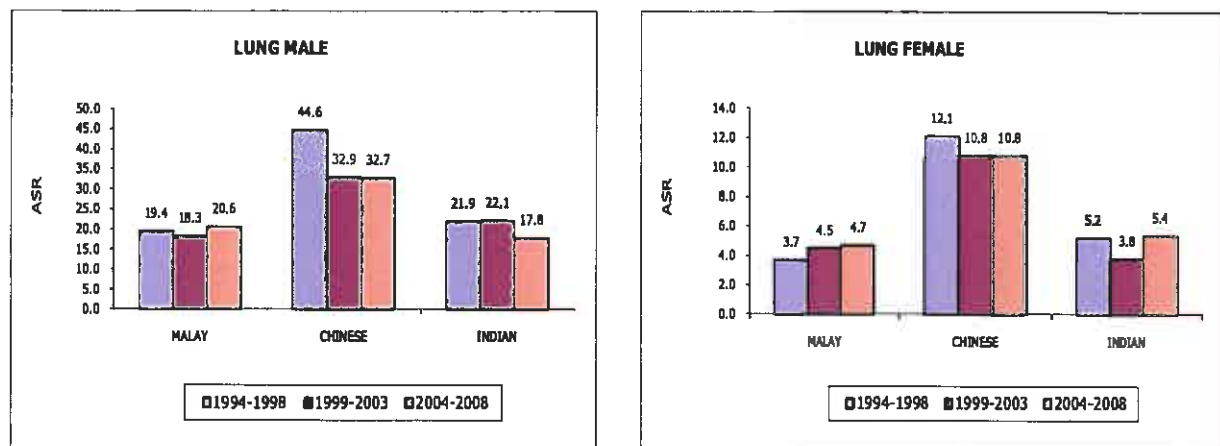


Figure 31. Lung: Ethnic Variations (1994-2008)– annual age-standardised rates per 100,000

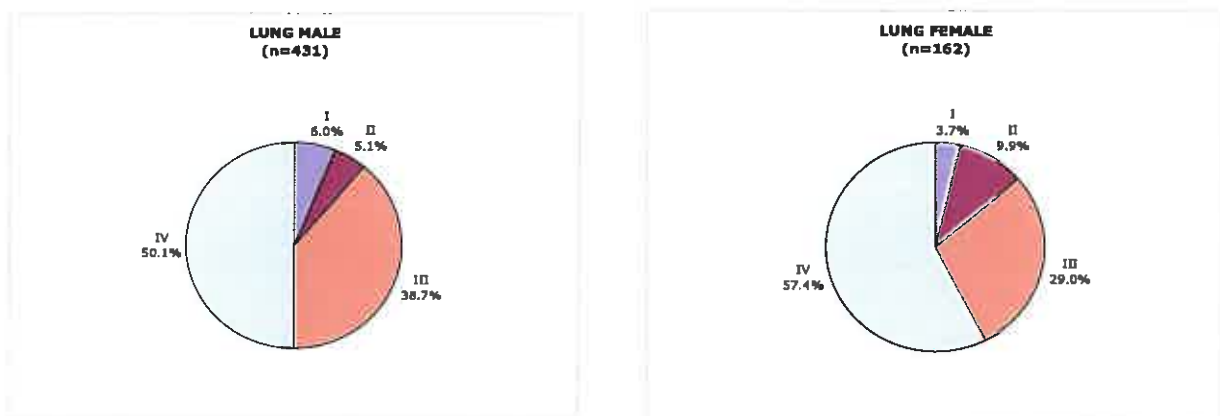


Figure 32. Lung: Stage

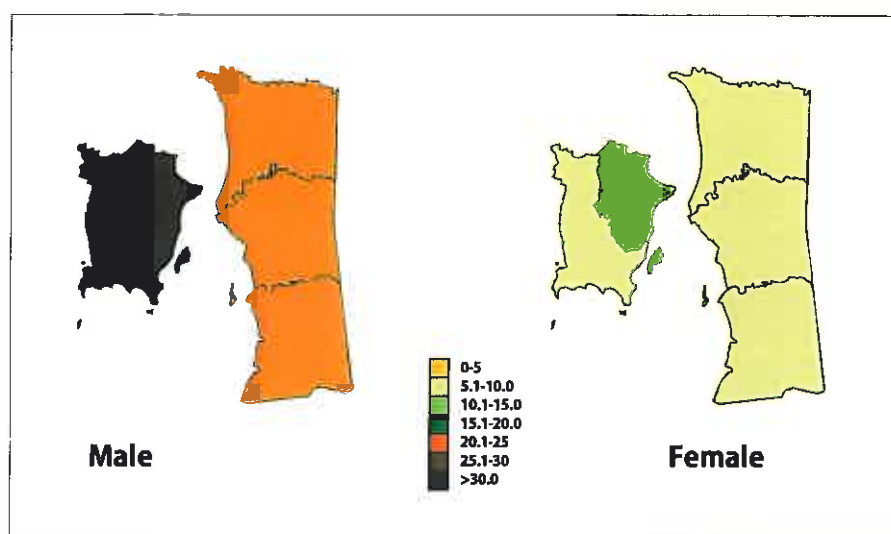
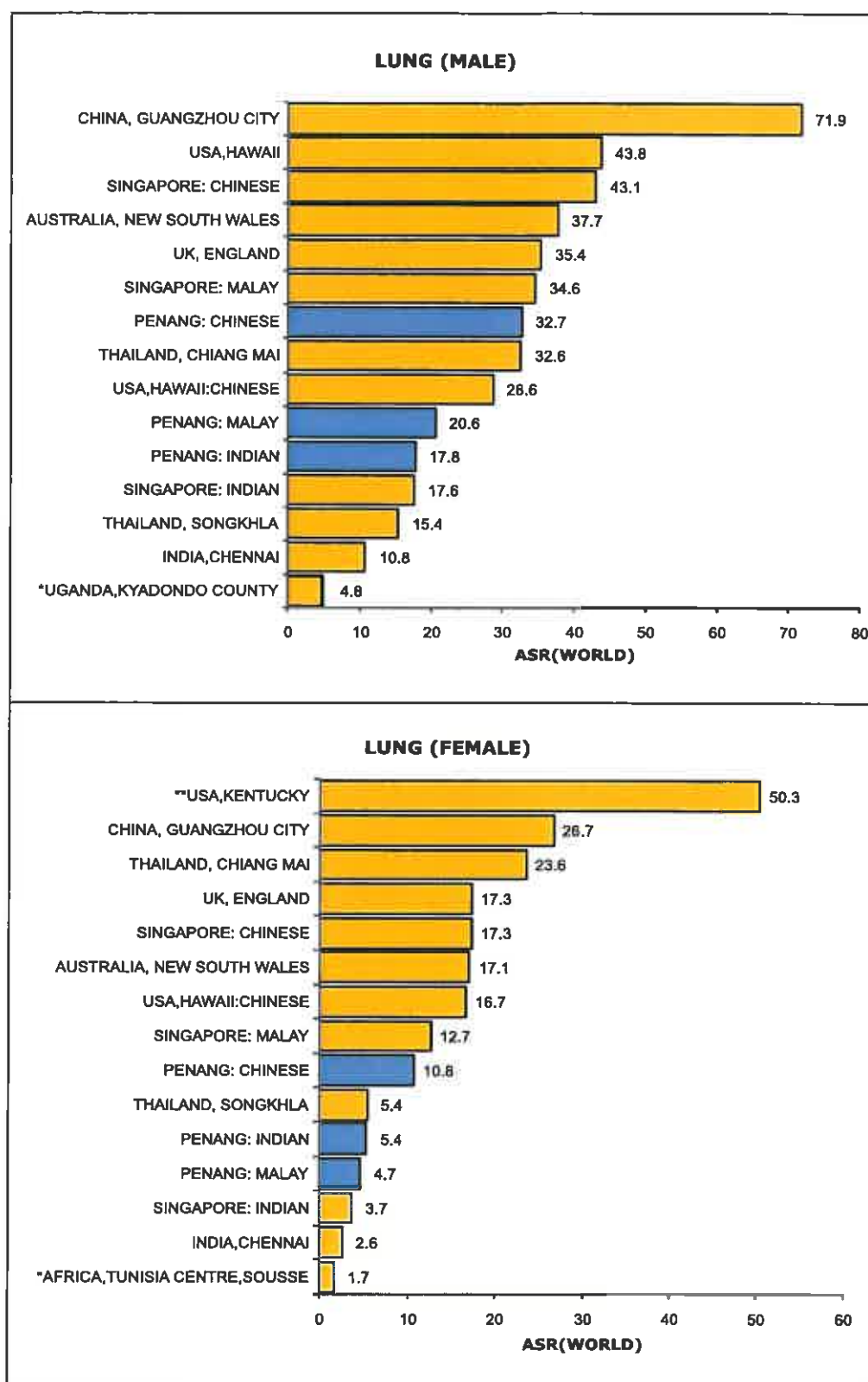


Figure 33. Lung: ASR by District



** The highest incidence from CI5 Volume IX

* The lowest incidence from CI5 Volume IX

Figure 34. Lung : International comparisons – annual age standardised rates per 100,000

6.4 Cervix uteri(ICD-10: C53)

Cancer of the cervix uteri was the third most common cancer in women with 418 cases and ASR of 11.8 (ASR of 13.1 in 1999-2004) and overall showing a decreasing trend amongst the Chinese and the Indians. The youngest cases were reported from the age group 20-24 years and incidence increased rapidly after 50 years. Malays (ASR 7.4) had the lowest rate followed by the Indians (ASR 12.6) and the Chinese (ASR 14.5). Staging was reported for 297 cases (71.0%). Of these, 29.3% were diagnosed at stage I, 30.3 % at stage II, 26.3 % at stage III and 14.1 % at stage IV.

The cumulative risk for all females was 1.4. It was 1.7 for Indians, 1.6 for Chinese and 0.8 for Malays. The life time risk for all females was 1 in 74. For Chinese it was 1 in 62, Malays 1 in 121 and Indians 1 in 61.

International comparisons show that, the highest incidence rate was for Africa, Zimbabwe (ASR 47.3) while the lowest was for Egypt (ASR 2.1). In comparison with Singapore (2004-2008) the rate for Singaporean Chinese and Indians were lower (ASR 8.8 and 3.8 respectively), while the Malay rate (ASR 8.8) was higher compared to Penang Malays(ASR 7.4).

ALL RESIDENTS					
	NO.	CR	CR74	ASR	(ASR 95%CL)
2004 - 2008	418	11.8	1.36	11.8	(10.68, 12.98)
1999 - 2003	389	11.9	1.48	13.1	(11.81, 14.46)
1994 - 1998	458	15.6	2.02	17.8	(16.15, 19.48)
2004	91	13.2	1.57	13.8	(10.88, 16.63)
2005	82	11.7	1.42	12.1	(9.42, 14.71)
2006	71	10.0	1.20	10.1	(7.75, 12.53)
2007	99	13.8	1.47	13.4	(10.72, 16.05)
2008	75	10.3	1.16	9.9	(7.64, 12.19)
2004 - 2008					
TIMUR LAUT	189	16.3	1.70	14.7	(12.59, 16.82)
BARAT DAYA	53	11.0	1.25	12.0	(8.72, 15.33)
SPU	62	8.7	1.35	10.0	(7.46, 12.51)
SPT	76	9.1	0.99	9.2	(7.07, 11.26)
SPS	38	10.8	1.21	10.8	(7.33, 14.33)

FEMALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	89	5.7	0.83	7.4	284	17.9	1.63	14.5	39	10.4	1.66	12.6
1999 - 2003	54	3.9	0.60	5.4	289	19.1	1.97	17.2	40	11.4	1.26	13.7
1994 - 1998	67	5.7	0.87	8.0	341	23.9	2.52	22.9	48	15.3	3.09	22.6

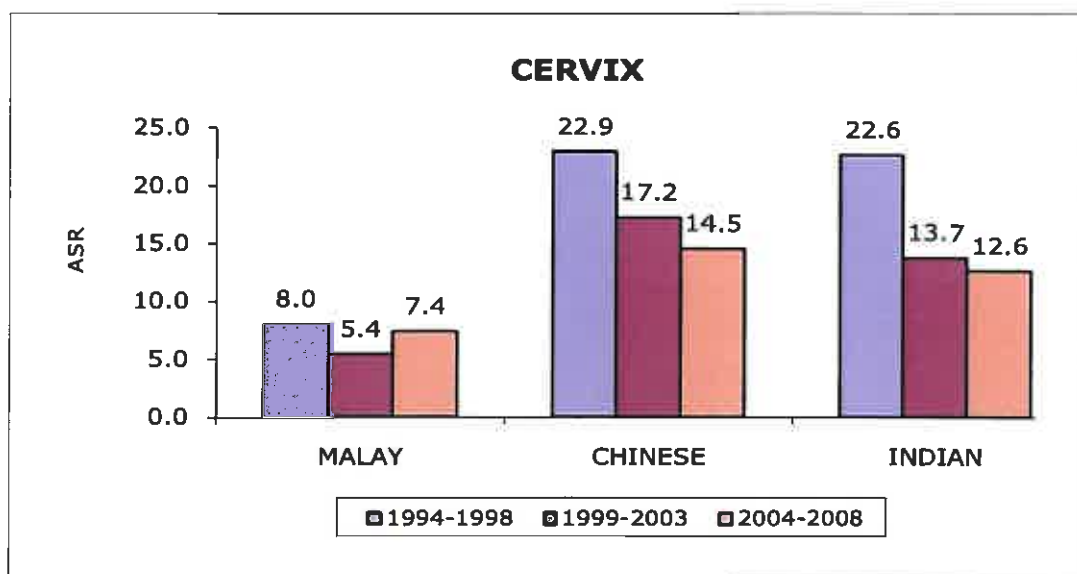


Figure 35. Cervix uteri: Ethnic Variations (1994-2008)– annual age-standardised rates per 100,000

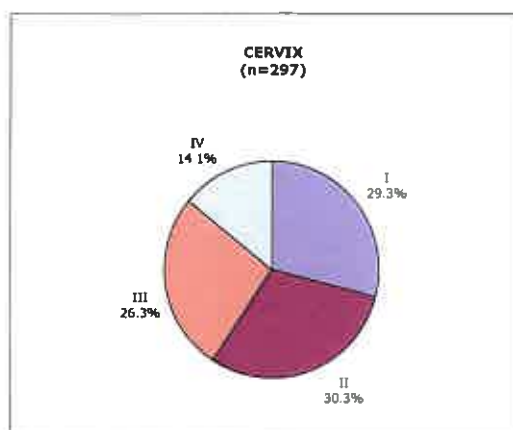


Figure 36. Cervix Uteri: Stage

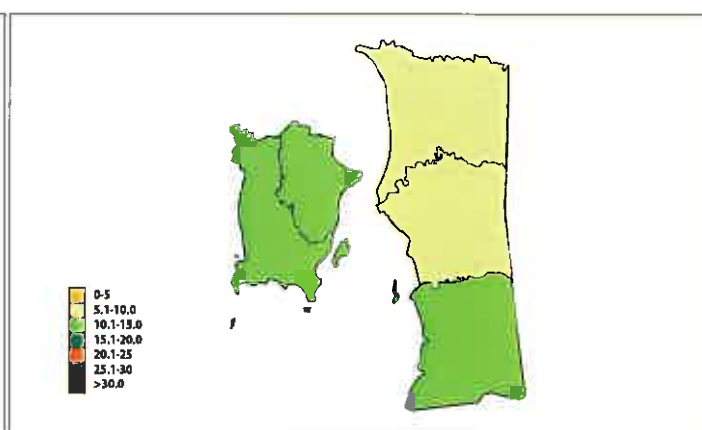


Figure 37. Cervix uteri : ASR by District, Female

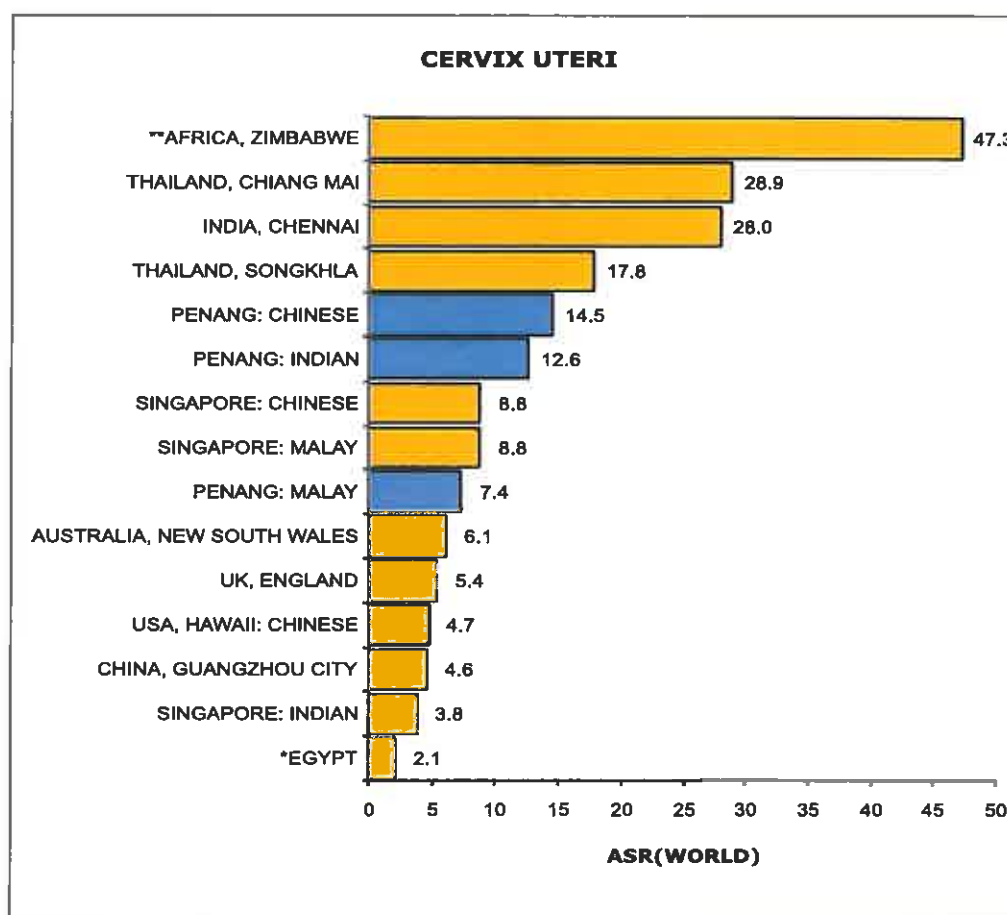


Figure 38. Cervix : International comparisons – annual age standardised rates per 100,000

6.5 Stomach (ICD-10: C16)

Cancer of the stomach was the sixth most common cancer among males with 228 cases and ASR 8.3. The Chinese had the highest ASR of 10.4 followed by the Indians 7.5. The Malays had the lowest incidence with an ASR 4.1. Staging was reported 105 cases (46.0%). Of these, 9.5% were diagnosed at stage I, 15.2% at stage II, 32.4% at stage III and 42.9% at stage IV.

The cumulative risk for all males was 0.96. It was 1.20 for Chinese, 0.99 for Indians and 0.42 for Malays. The life time risk for all males was 1 in 105. For the Chinese it was 1 in 84, for Indians it was 1 in 101 and Malays 1 in 238.

Cancer of the stomach is the seventh most common in females with 176 cases and ASR of 5.1. The Indian females had the highest ASR (7.0) followed by the Chinese (ASR 6.4) and the Malays (ASR 2.0). Staging was reported for 77 cases (44.0%). Of these, 16.9% were diagnosed at stage I, 14.3% at stage II, 31.2% at stage III and 37.7% at stage IV.

The cumulative risk for all females was 0.55. It was 0.69 for Chinese, 0.66 for Indians and 0.25 for Malays. The life time risk for all females was 1 in 183. For Chinese it was 1 in 146, Indians 1 in 151 and Malays 1 in 393.

The ethnic variations for Penang males was equal to Singapore (2004-2008) which was also highest among the Chinese (males ASR 15.9) while for females the rates was higher in Chinese (ASR 8.2) compared to among Indians in Penang. International comparisons show that, the highest incidence rate was for Japan, Hiroshima (ASR 30.2) while the lowest was For India, Trivandrum (ASR 1.0).

ALL RESIDENTS	MALE					FEMALE				
	NO.	CR	CR74	ASR	(ASR 95%CL)	NO.	CR	CR74	ASR	(ASR 95%CL)
2004 - 2008	228	6.5	0.96	8.3	(7.22, 9.42)	176	5.0	0.55	5.1	(4.33, 5.86)
1999 - 2003	219	6.7	1.12	9.3	(8.07, 10.59)	180	5.5	0.66	6.2	(5.31, 7.15)
1994 - 1998	265	9.2	1.63	13.3	(11.71, 14.97)	168	5.7	0.82	6.8	(5.76, 7.84)
2004	37	5.4	0.81	7.2	(4.83, 9.53)	52	7.5	1.05	9.5	(6.89, 12.18)
2005	50	7.1	1.10	9.2	(6.58, 11.74)	49	6.9	0.99	8.5	(6.04, 10.87)
2006	40	5.6	0.83	7.3	(5.01, 9.57)	33	4.8	0.56	5.1	(3.32, 6.81)
2007	32	4.6	0.44	4.6	(2.98, 6.22)	33	4.7	0.56	4.9	(3.23, 6.63)
2008	29	4.0	0.45	4.1	(2.60, 5.54)	49	6.7	0.73	6.6	(4.77, 8.52)
2004 - 2008										
TIMUR LAUT	130	11.7	1.47	13.0	(10.74, 15.26)	22	4.7	0.91	7.0	(3.97, 9.95)
BARAT DAYA	23	3.2	0.56	4.5	(2.59, 6.34)	40	4.8	0.74	6.3	(4.31, 8.30)
SPU	13	3.6	0.42	5.2	(2.29, 8.00)	94	8.1	0.81	7.3	(5.81, 8.80)
SPT	18	3.8	0.42	4.5	(2.39, 6.58)	24	3.4	0.50	3.8	(2.28, 5.41)
SPS	27	3.2	0.33	3.4	(2.09, 4.66)	13	3.7	0.34	3.6	(1.59, 5.53)

MALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	36	2.4	0.42	4.1	172	10.8	1.20	10.4	19	5.2	0.99	7.5
1999 - 2003	25	1.8	0.41	3.2	170	11.1	1.43	12.3	22	6.3	1.22	9.4
1994 - 1998	21	1.9	0.36	3.0	204	14.4	2.18	17.7	39	12.3	2.60	20.3

FEMALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	22	1.4	0.25	2.0	134	8.5	0.69	6.4	19	5.1	0.66	7.0
1999 - 2003	16	1.2	0.25	1.8	135	8.9	0.78	7.8	27	7.7	1.39	10.8
1994 - 1998	18	1.5	0.30	2.2	125	8.8	1.04	8.5	25	8.0	1.24	11.5



ASR

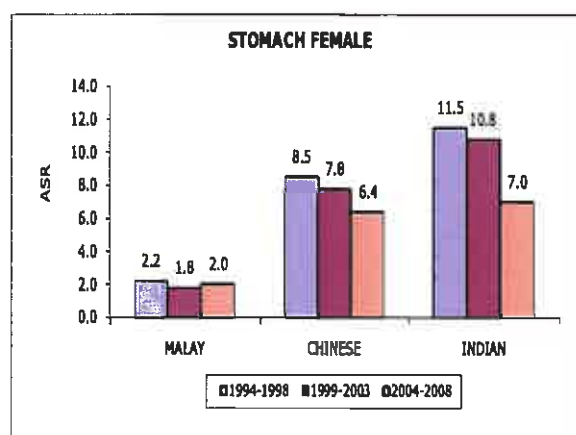
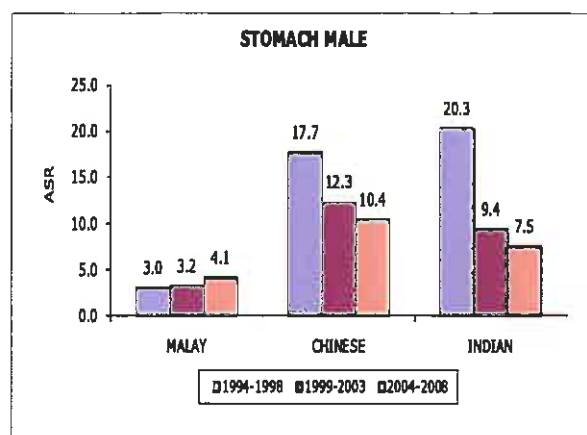


Figure 39. Stomach: Ethnic Variations (1994-2008)-annual age-standardised rates per 100,000

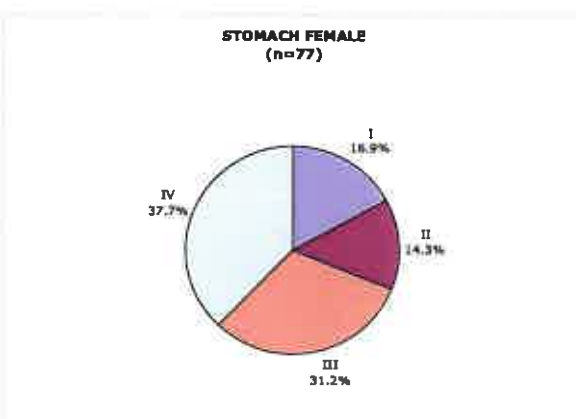
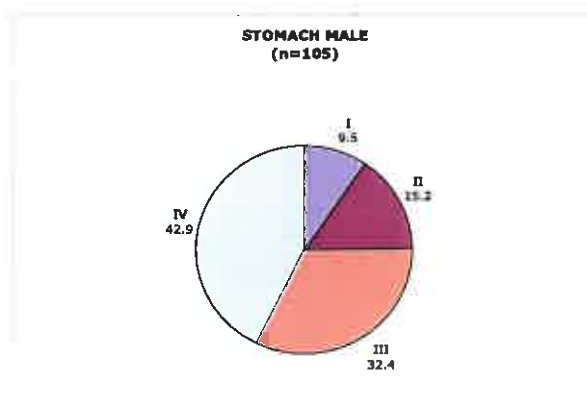


Figure 40. Stomach: Stage

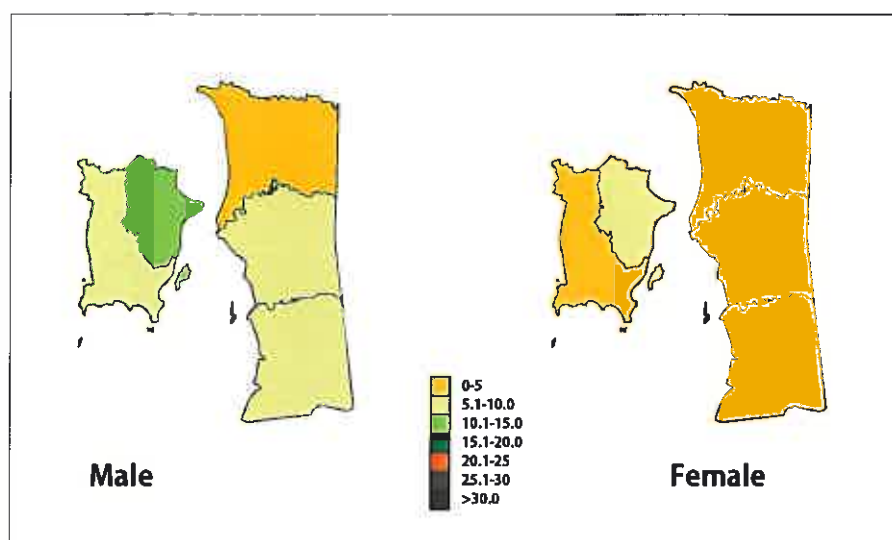
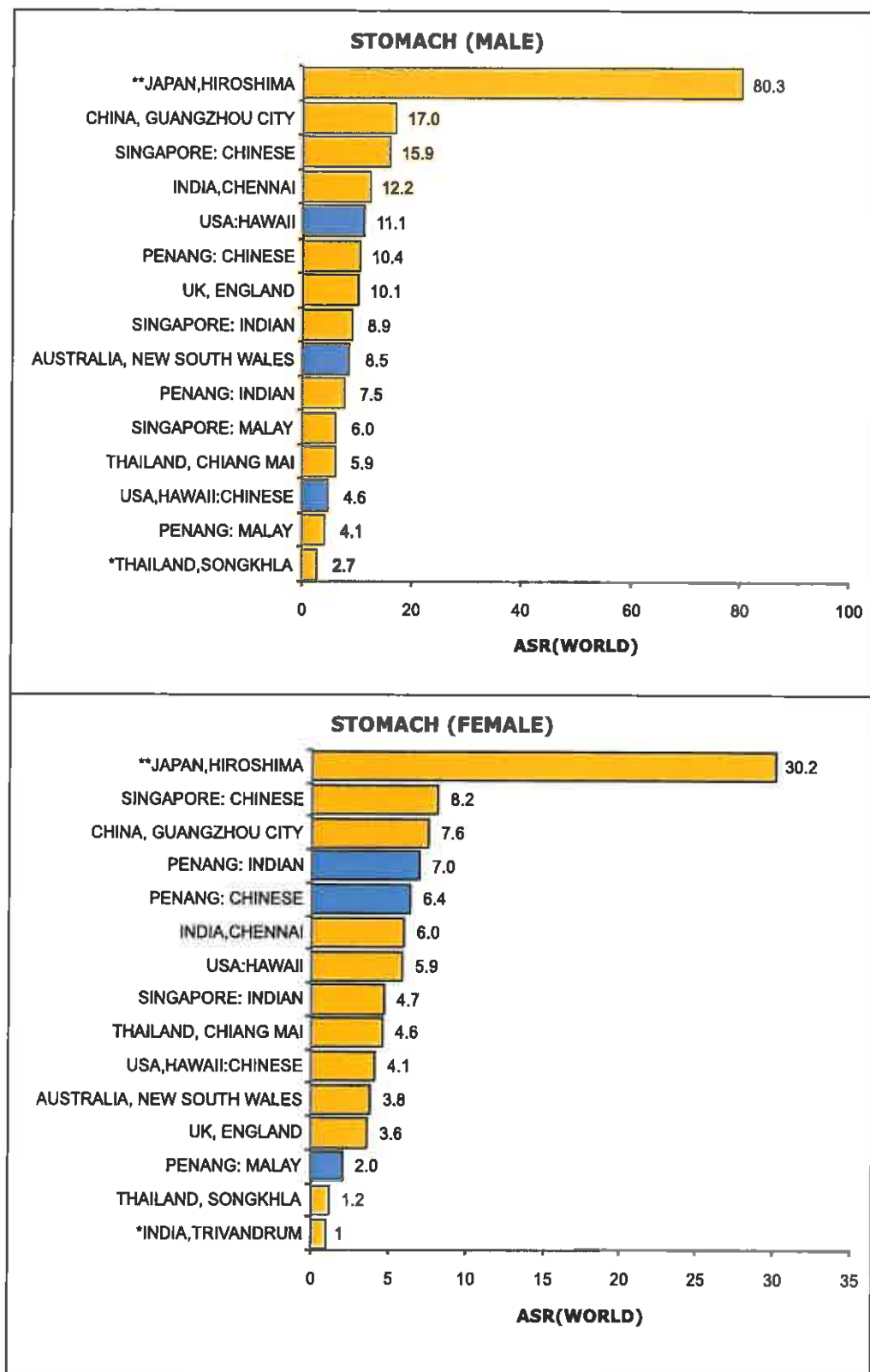


Figure 41. Stomach : ASR by District



** The highest incidence from CI5 Volume IX

* The lowest incidence from CI5 Volume IX

Figure 42. Stomach : International comparisons – annual age standardised rates per 100,000

6.6 Liver (ICD-10: C22)

Liver cancer is the fifth most common cancer in males with 263 cases (ASR 9.0). The Chinese had the highest ASR of 11.8 followed by the Malays (ASR 4.8) and Indians (ASR 4.3). Staging was reported for 119 cases (45%). Of these, 15.1% were diagnosed at stage I, 15.1% at stage II, 17.6% at stage III and 52.1% at stage IV.

The cumulative risk for all males was 1.1. It was 1.4 for Chinese and 0.5 for both the Malays and Indians. The life time risk for all males was 1 in 94. For Chinese it was 1 in 71, for and Indians 1 in 192 and for Malays 1 in 211.

There were 121 cases reported for females (ASR 3.7). The Indians had the highest ASR of 4.8, followed by Chinese ASR 4.2 and Malays ASR 2.3. Staging was reported for 50 cases (41%). Of these, 10% were diagnosed at stage I, 8 % at stage II, 24% at stage III and 58% at stage IV.

The cumulative risk for all females was 0.44. It was highest in Indians with 0.55 followed by Chinese 0.51 and 0.24 for Malays. The life time risk for all females was 1 in 228. Indians has the highest risk with 1 in 182 followed by Chinese 1 in 195 and Malays 1 in 414.

International comparisons show that, the highest incidence rate was for Korea, Gwangju in males (ASR 50.2) and for Korea, Busan in females (ASR 14.9), while the lowest was for Algeria, Setif (ASR 1.1) in males and for Iceland in females (0.6). By ethnicity and gender, Singaporean rates (2004-2008) were higher than that of Penang in all categories.

ALL RESIDENTS	MALE					FEMALE				
	NO.	CR	CR74	ASR	(ASR 95%CL)	NO.	CR	CR74	ASR	(ASR 95%CL)
2004 - 2008	263	7.5	1.07	9.0	(7.89, 10.11)	121	3.4	0.44	3.7	(3.01, 4.33)
1999 - 2003	212	6.5	1.04	8.4	(7.23, 9.54)	91	2.8	0.42	3.3	(2.59, 3.95)
1994 - 1998	165	5.7	1.02	7.9	(6.68, 9.15)	60	2.0	0.29	2.5	(1.84, 3.10)
2004	49	7.2	0.96	8.8	(6.24, 11.27)	42	6.1	0.78	7.3	(5.02, 9.53)
2005	48	6.9	0.99	7.9	(5.65, 10.24)	48	6.8	1.03	8.1	(5.78, 10.47)
2006	76	10.6	1.51	12.6	(9.69, 15.45)	24	3.5	0.46	3.9	(2.35, 5.54)
2007	24	3.4	0.38	3.6	(2.15, 5.06)	28	4.0	0.56	4.3	(2.67, 5.86)
2008	20	2.8	0.33	2.9	(1.63, 4.25)	25	3.4	0.46	3.6	(2.19, 5.05)
2004 - 2008										
TIMUR LAUT	131	11.7	1.49	12.6	(10.38, 14.74)	31	6.7	1.04	9.2	(5.82, 12.49)
BARAT DAYA	39	5.5	0.94	7.4	(5.02, 9.80)	41	4.9	0.66	5.7	(3.92, 7.50)
SPU	21	5.8	0.76	6.9	(3.82, 9.91)	62	5.4	0.60	5.0	(3.76, 6.30)
SPT	14	2.9	0.41	3.5	(1.66, 5.42)	13	1.8	0.18	2.1	(0.93, 3.19)
SPS	25	3.0	0.42	3.3	(1.99, 4.60)	7	2.0	0.38	2.3	(0.58, 3.99)

MALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	48	3.1	0.47	4.8	203	12.8	1.42	11.8	11	3.0	0.52	4.3
1999 - 2003	34	2.5	0.43	3.9	171	11.2	1.45	11.6	6	1.7	0.43	2.6
1994 - 1998	25	2.2	0.42	3.7	131	9.2	1.44	11.0	8	2.5	0.51	4.1

FEMALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	25	1.6	0.24	2.3	81	5.1	0.51	4.2	13	3.5	0.55	4.8
1999 - 2003	14	1.0	0.17	1.4	73	4.8	0.58	4.4	4	1.1	0.26	1.8
1994 - 1998	7	0.6	0.14	1.0	51	3.6	0.40	3.4	2	0.6	0.11	1.0

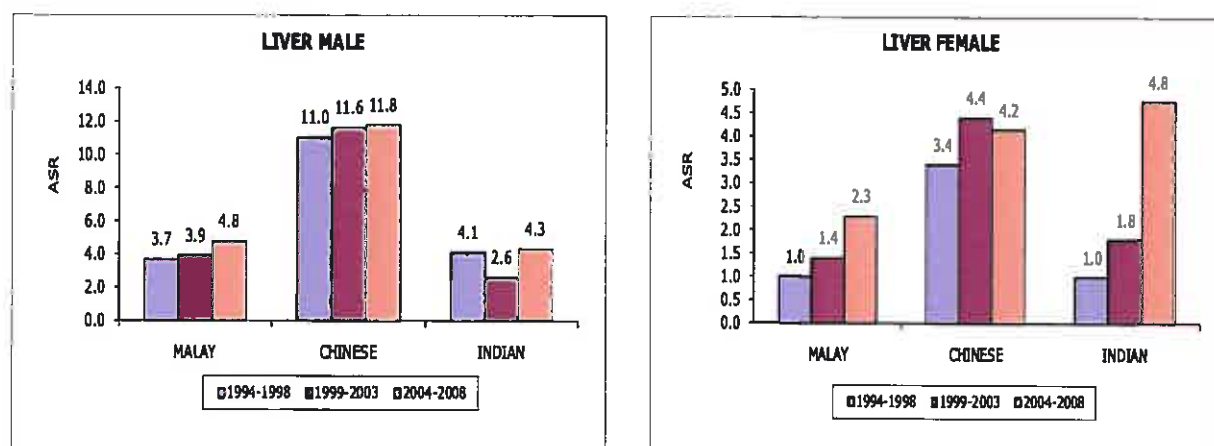


Figure 43. Liver: Ethnic Variations (1994-2008) – annual age-standardised rates per 100,000

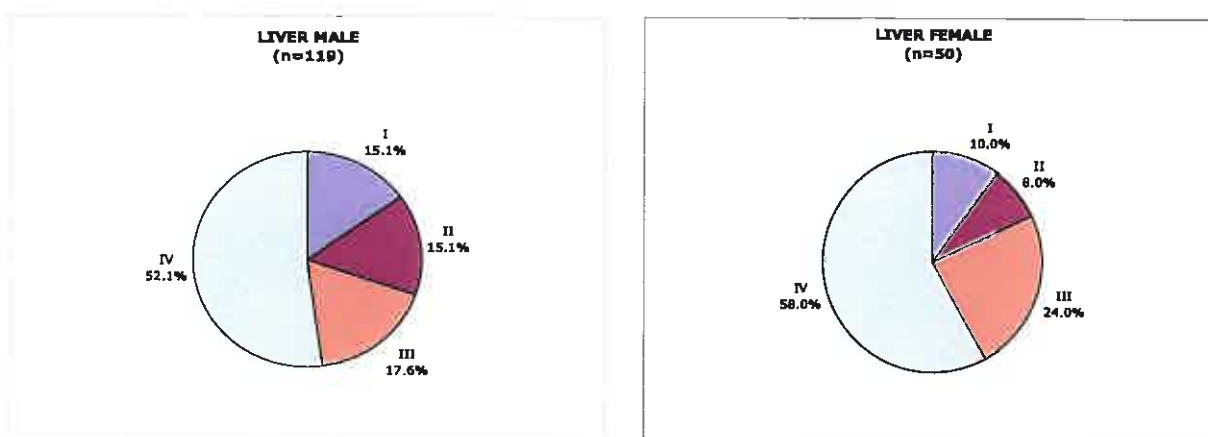


Figure 44. Liver: Stage

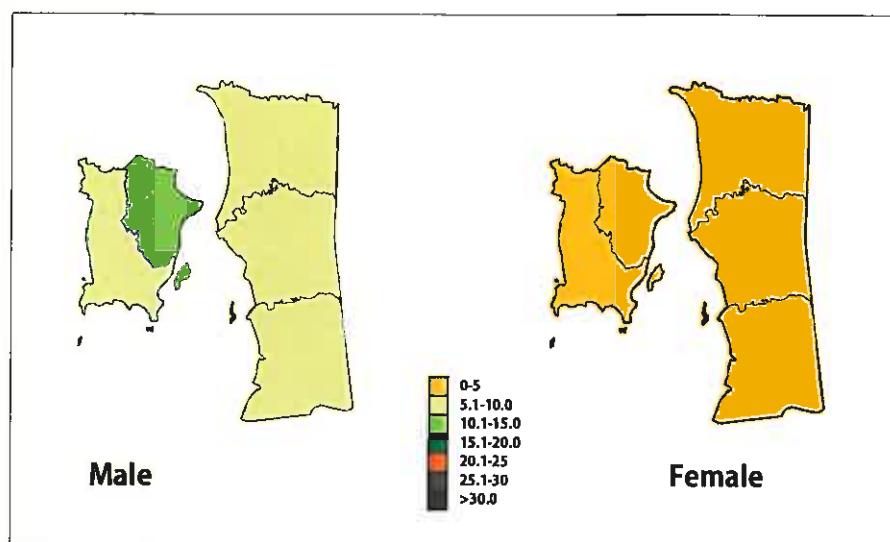
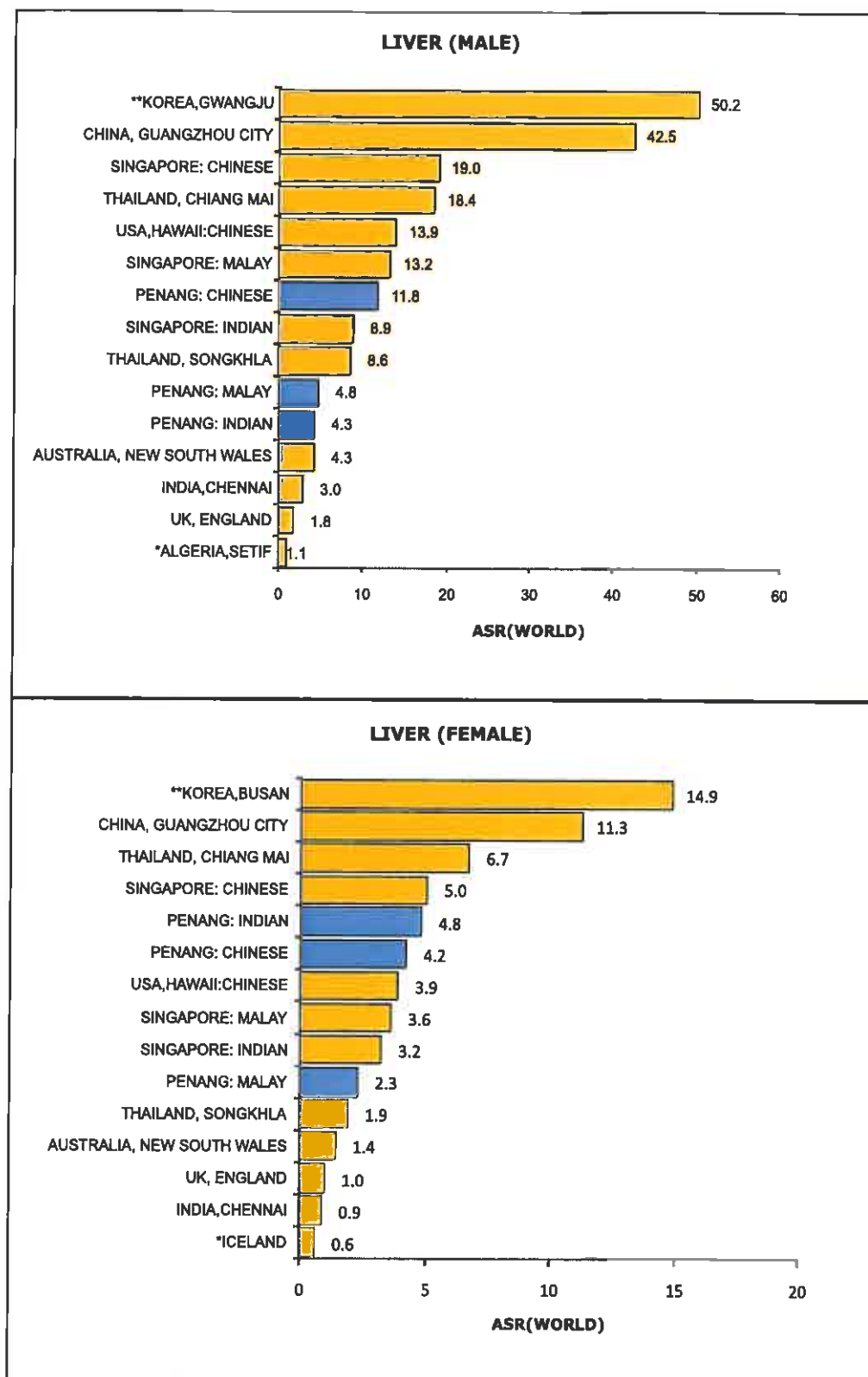


Figure 45. Liver : ASR by District



** The highest Incidence from CI5 Volume IX

* The lowest Incidence from CI5 Volume IX

Figure 46. Liver : International comparisons – annual age standardised rates per 100,000

6.7 Nasopharynx (ICD-10: C11)

This cancer ranked fourth for males with 289 cases and ASR of 8.7. The Chinese males had the highest rate of 13.4 followed by Malays ASR 3.1 and Indians ASR 2.5. The overall incidence was higher than in 1999-2003 report for all ethnic groups in males. Staging was reported for 182 cases (63.0%). Of these, 9.3% were diagnosed at stage I, 28.6% at stage II, 36.3% at stage III and 25.8% at stage IV.

The cumulative risk for all males was 0.97. It was 1.45 for Chinese, 0.45 for Indians and 0.27 for Malays. The life time risk for all males was 1 in 104. For Chinese it was 1 in 69, 1 in 225 in Indians and for Malays 1 in 365.

In females there were 92 cases notified with ASR of 2.6 and ranked fourteen. Compared to 1999-2003 report, the incidence was lower for Chinese but higher for Indians and Malays. Staging was reported for 55 cases (60.0%). Of these, 12.7% were diagnosed at stage I, 25.5% at stage II, 41.8% at stage III and 20.0% at stage IV.

The cumulative risk for all females was 0.3. It was 0.4 for Chinese, 0.2 for Malays and 0.1 for Indians. The life time risk for all females was 1 in 340. It was 1 in 250 for the Chinese, 1 in 593 for the Malays and 1 in 725 in Indians.

International comparisons show that, the highest incidence rate in males and females was for China, Zhongshan (males ASR 26.9 Female ASR 10.6) while the lowest rates in males was for Switzerland, Grauv. & Glarus (ASR 0.1). The Singapore (2004-2008) Chinese male rate (ASR 11.9) was lower than Penang Chinese. The Malay males rate (ASR 6.3) was more than 2 times that of Malays in Penang.

ALL RESIDENTS	MALE					FEMALE				
	NO.	CR	CR74	ASR	(ASR 95%CL)	NO.	CR	CR74	ASR	(ASR 95%CL)
2004 - 2008	289	8.3	0.97	8.7	(7.71, 9.77)	92	2.6	0.29	2.6	(2.08, 3.16)
1999 - 2003	221	6.8	0.78	7.3	(6.29, 8.26)	87	2.7	0.30	2.8	(2.18, 3.37)
1994 - 1998	279	9.7	1.25	11.1	(9.80, 12.50)	93	3.2	0.35	3.4	(2.66, 4.06)
2004	47	6.9	0.74	7.5	(5.28, 9.67)	60	8.7	0.97	9.0	(6.64, 11.27)
2005	56	8.0	0.95	8.6	(6.26, 10.86)	56	7.9	0.94	8.3	(6.07, 10.52)
2006	70	9.7	1.18	10.2	(7.77, 12.66)	22	3.2	0.45	3.6	(2.05, 5.07)
2007	21	3.0	0.33	2.9	(1.65, 4.16)	16	2.3	0.19	2.1	(1.05, 3.14)
2008	17	2.4	0.26	2.4	(1.26, 3.56)	16	2.2	0.25	2.2	(1.12, 3.31)
2004 - 2008										
TIMUR LAUT	123	11.0	1.14	10.6	(8.73, 12.54)	35	7.5	0.95	9.1	(5.96, 12.21)
BARAT DAYA	41	5.7	0.88	7.1	(4.83, 9.31)	58	6.9	0.82	7.4	(5.41, 9.30)
SPU	32	8.9	0.90	8.5	(5.47, 11.43)	42	3.6	0.35	3.3	(2.30, 4.31)
SPT	14	2.9	0.41	3.3	(1.53, 5.04)	13	1.8	0.18	2.1	(0.93, 3.19)
SPS	15	1.8	0.21	1.9	(0.91, 2.85)	12	3.4	0.46	3.7	(1.59, 5.84)

MALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	32	2.1	0.27	3.1	251	15.8	1.45	13.4	5	1.4	0.45	2.5
1999 - 2003	20	1.5	0.17	1.8	198	13.0	1.23	11.6	3	0.9	0.18	1.1
1994 - 1998	22	2.0	0.30	2.9	253	17.9	2.00	17.8	3	0.9	0.11	1.2

FEMALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	21	1.3	0.17	1.6	67	4.2	0.40	3.5	4	1.1	0.14	1.3
1999 - 2003	9	0.7	0.10	0.8	75	5.0	0.45	4.4	2	0.6	0.10	0.7
1994 - 1998	11	0.9	0.11	1.2	81	5.7	0.54	5.2	1	0.3	0.02	0.2

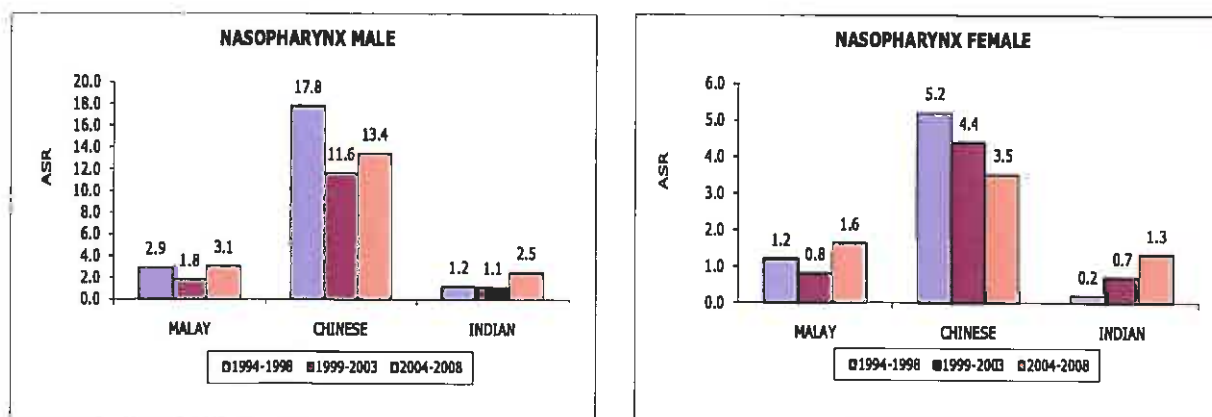


Figure 47. Nasopharynx: Ethnic Variations (1994-2008)-annual age-standardised rates per 100,000

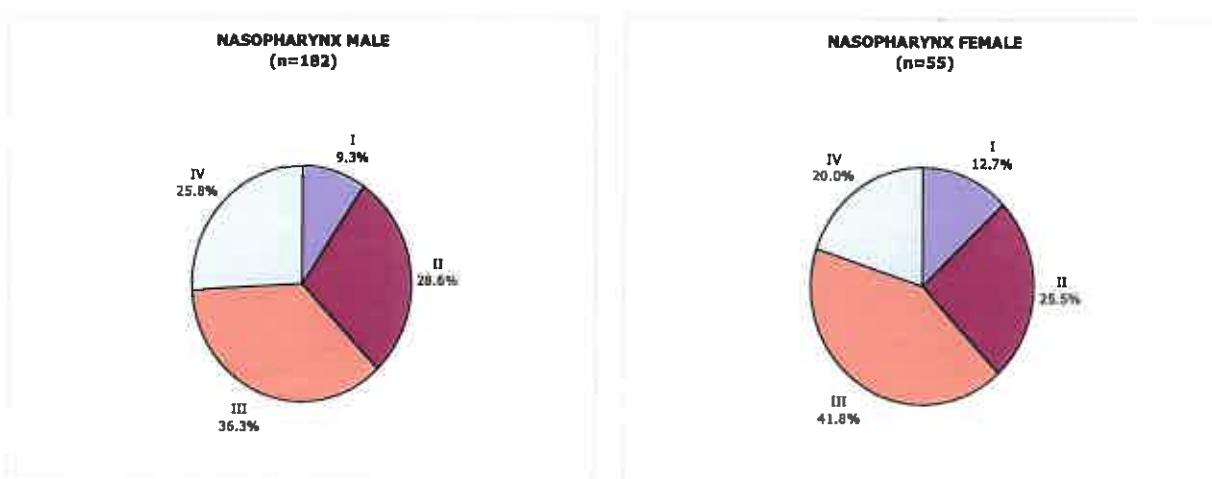


Figure 48. Nasopharynx: Stage

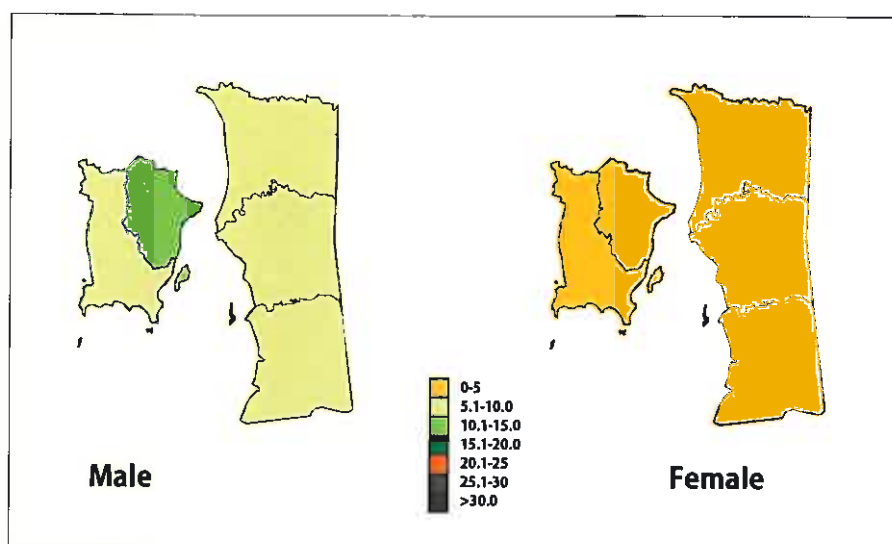
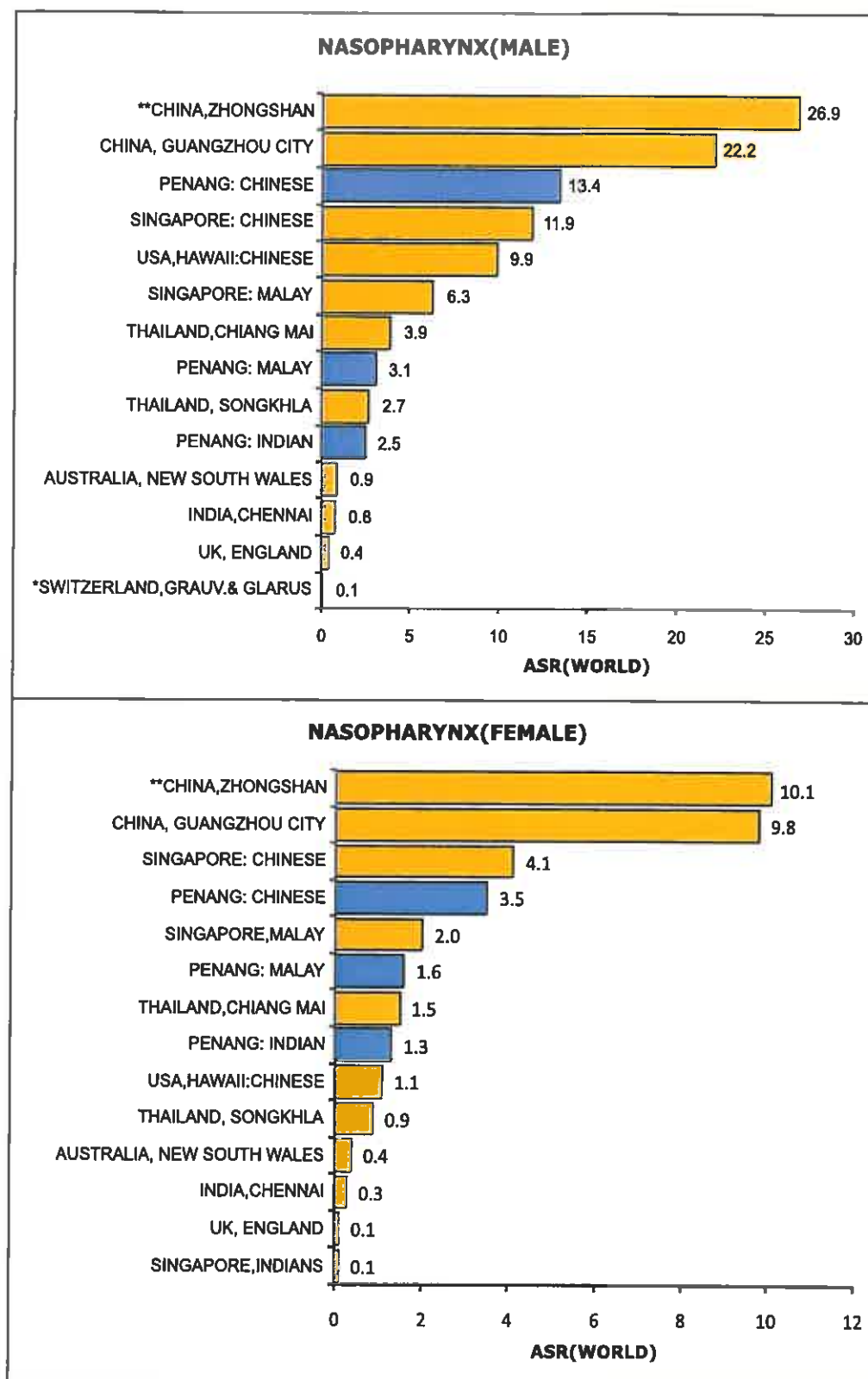


Figure 49. Nasopharyngeal carcinoma: ASR by District



** The highest incidence from CI5 Volume IX

*The lowest incidence from CI5 Volume IX

Figure 50. Nasopharynx : International comparisons – annual age standardised rates per 100,000

6.8 Prostate (ICD-10: C61)

Prostate cancer with 376 cases (ASR 15.1) ranked third among the ten leading cases of cancer in males. The Chinese had the highest incidence (ASR 18.2), followed by the Indians (ASR 12.7) and the Malays (ASR 8.8).

Staging was available for 232 cases (62%). Of these, 10.8% were diagnosed at stage I, 40.1% at stage II, 19.0% at stage III and 30.2% at stage IV.

The cumulative risk for all males was 1.8, Chinese was the highest with 2.1 followed by Indians 1.3 and Malays 1.0. The life time risk was 1 in 57. The life time risk among the Chinese was 1 in 48, 1 in 78 in Indians and in Malays 1 in 97.

International comparisons show that, the highest incidence rate was for USA, Michigan: Black (ASR 200.9) while the lowest was for China, Jiashan (ASR 1.4). In Singapore (2004-2008), the incidence was higher compared to Penang for all, 27.2 for Chinese, 19.1 for Malays and 17.8 for Indians. The incidence was lower for Thailand, Chiang Mai (ASR 5.3) compared to Penang.

YEAR	ALL RESIDENTS				
	NO.	CR	CR74	ASR	(ASR 95%CL)
2004 - 2008	376	10.7	1.77	15.1	(13.55, 16.61)
1999 - 2003	171	5.3	0.81	7.9	(6.75, 9.14)
1994 - 1998	153	5.3	0.95	8.4	(7.04, 9.71)
2004	61	9.0	1.91	13.3	(9.92, 16.60)
2005	81	11.7	1.77	16.8	(13.08, 20.41)
2006	70	10.0	1.78	13.9	(10.63, 17.20)
2007	77	10.9	1.60	15.0	(11.62, 18.36)
2008	87	12.1	1.79	16.4	(12.91, 19.81)
2004 - 2008					
TIMUR LAUT	195	17.5	2.38	21.2	(18.20, 24.17)
BARAT DAYA	37	7.9	1.59	13.7	(9.22, 18.14)
SPU	56	7.8	1.38	12.3	(9.03, 15.50)
SPT	72	8.6	1.68	12.4	(9.52, 15.29)
SPS	16	4.5	0.71	6.6	(3.36, 9.92)

MALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	62	4.1	1.04	8.8	285	17.9	2.12	18.2	26	7.2	1.29	12.7
1999 - 2003	27	2.0	0.55	4.0	118	7.7	0.88	9.1	21	6.0	0.73	11.2
1994 - 1998	29	2.6	0.68	5.2	106	7.5	1.17	9.8	16	5.0	0.58	9.3

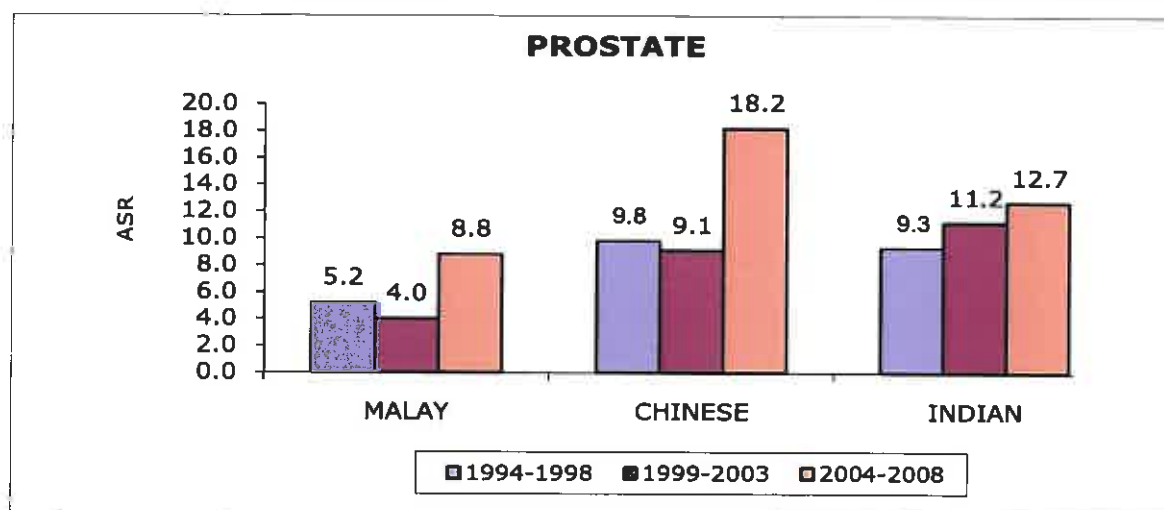


Figure 51. Prostate: Ethnic Variations (1994-2008) - annual age-standardised rates per 100,000

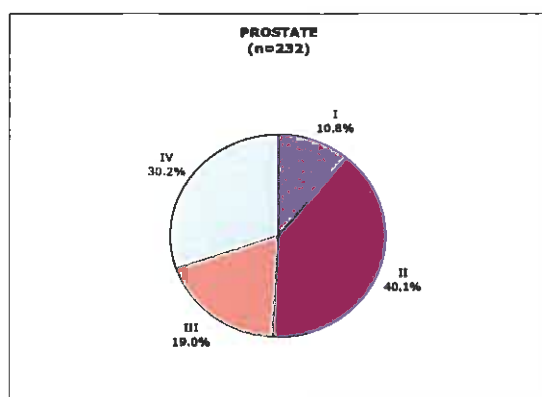


Figure 52. Prostate: Stage

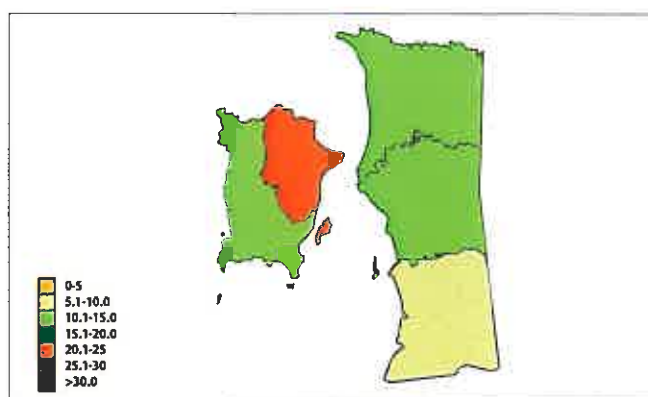
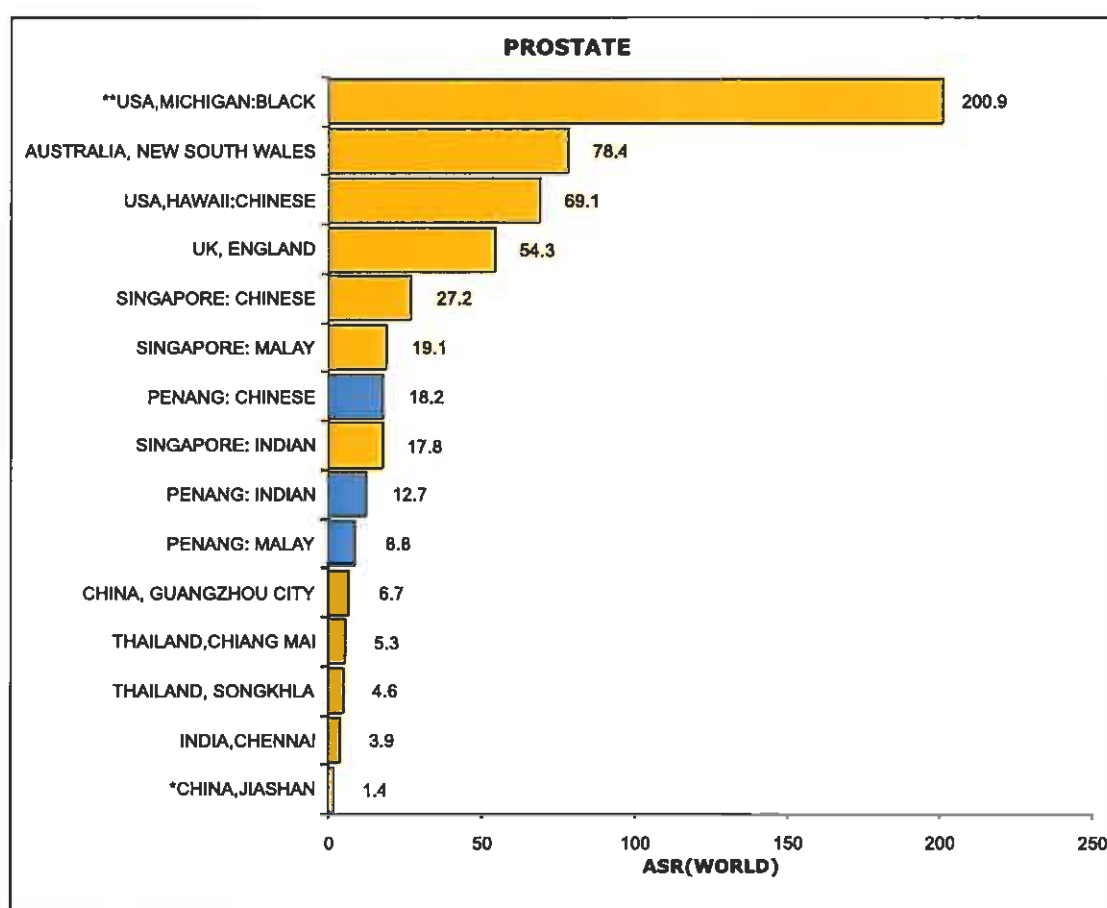


Figure 53. Prostate Cancer: ASR by District



**The highest Incidence from CI5 Volume IX

*The lowest Incidence from CI5 Volume IX

Figure 54. Prostate : International comparisons – annual age standardised rates per 100,000

6.9 Lymphoma (ICD-10: C81-C85; C96)

A total of 225 cases were reported among males (ASR 7.2) and 144 cases among females (ASR 4.1). Chinese had the highest rate compared to Malays and Indians. I ranked seventh in males and ninth in females.

Staging was reported in 115 males (51%) and 74 females (65%). For the males 11.38% were diagnosed at stage I, 30.4% at stage II, 19.1% at stage III and 39.1% at stage IV. In females, 27.0% were diagnosed at stage I, 29.7% at stage II, 12.2% at stage III and 31.1% at stage IV.

The cumulative risk for Chinese was 0.8 and 0.6 for both Malays and Indians. The life time risk for all males was 1 in 131; for Chinese 1 in 122, Malays 1 in 158, and Indians 1 in 163.

The cumulative risk for all females was 0.5; it was 0.5 for both Malays and Chinese and 0.3 for Indians. The life time risk for all females was 1 in 210 with Chinese being the highest at 1 in 188, Malays 1 in 222 and Indians 1 in 345.

International comparisons show that, the highest incidence rate was for USA, California, Greater San Francisco Bay area: Non Hispanic White in males (ASR 22.5) and for Italy, Parma Province in females (ASR 17.1). In Singapore (2004-2008), the rate was higher in all ethnic in both males and females.

ALL RESIDENTS	MALE					FEMALE				
	NO.	CR	CR74	ASR	(ASR 95%CL)	NO.	CR	CR74	ASR	(ASR 95%CL)
2004 - 2008	225	6.4	0.77	7.2	(6.27, 8.20)	144	4.1	0.48	4.1	(3.45, 4.82)
1999 - 2003	171	5.3	0.67	6.2	(5.24, 7.16)	105	3.2	0.38	3.5	(2.83, 4.19)
1994 - 1998	117	4.1	0.58	5.1	(4.15, 6.07)	79	2.7	0.31	3.1	(2.35, 3.71)
2004	43	6.3	0.59	6.8	(4.71, 8.86)	40	5.8	0.84	6.8	(4.61, 8.89)
2005	32	4.6	0.60	5.3	(3.41, 7.16)	41	5.8	0.62	6.2	(4.26, 8.14)
2006	69	9.6	1.13	10.9	(8.27, 13.51)	27	3.9	0.51	4.1	(2.55, 5.70)
2007	35	5.0	0.55	5.0	(3.34, 6.72)	21	3.0	0.42	3.1	(1.75, 4.42)
2008	23	3.2	0.34	3.2	(1.89, 4.57)	38	5.2	0.57	5.2	(3.53, 6.87)
2004 - 2008										
TIMUR LAUT	108	9.7	1.05	10.2	(8.24, 12.14)	33	7.1	0.82	8.0	(5.20, 10.86)
BARAT DAYA	33	4.6	0.57	5.2	(3.39, 7.07)	35	4.2	0.47	4.7	(3.10, 6.30)
SPU	16	4.5	0.75	5.3	(2.63, 7.95)	67	5.8	0.67	5.3	(4.02, 6.58)
SPT	17	3.5	0.53	4.2	(2.15, 6.18)	22	3.1	0.35	3.4	(1.95, 4.82)
SPS	27	3.2	0.30	3.2	(1.99, 4.43)	11	3.1	0.32	3.2	(1.30, 5.18)

MALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	75	4.9	0.64	6.4	127	8.0	0.82	7.5	20	5.5	0.62	6.0
1999 - 2003	66	4.8	0.70	6.4	90	5.9	0.64	6.0	15	4.4	0.62	5.3
1994 - 1998	43	3.8	0.64	5.7	61	4.3	0.56	5.0	11	3.5	0.40	4.1

FEMALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	45	2.9	0.45	3.8	88	5.6	0.53	4.7	10	2.7	0.29	2.7
1999 - 2003	46	3.3	0.49	4.5	49	3.3	0.33	2.9	9	2.6	0.23	3.1
1994 - 1998	27	2.3	0.29	2.8	43	3.0	0.30	2.9	8	2.5	0.40	3.5

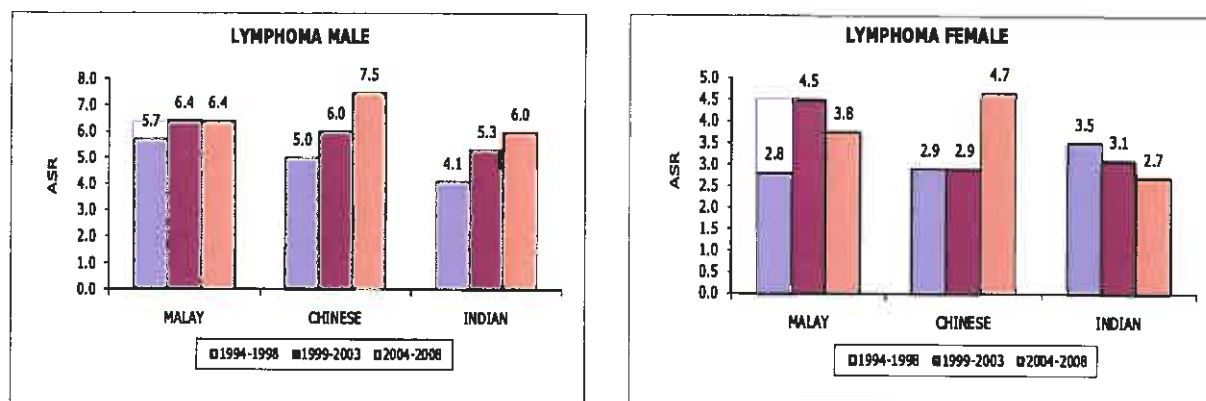


Figure 55. Lymphoma: Ethnic Variations (1994-2008) - annual age-standardised rates per 100,000

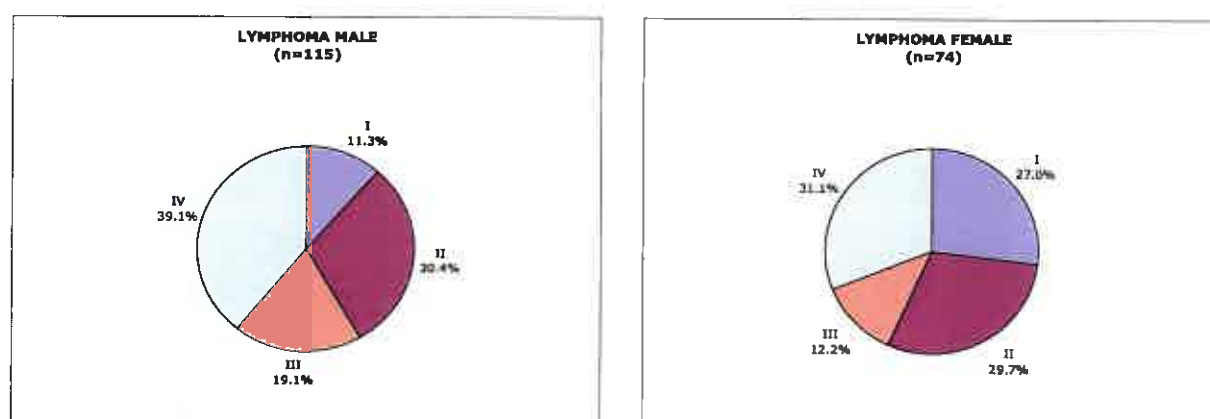
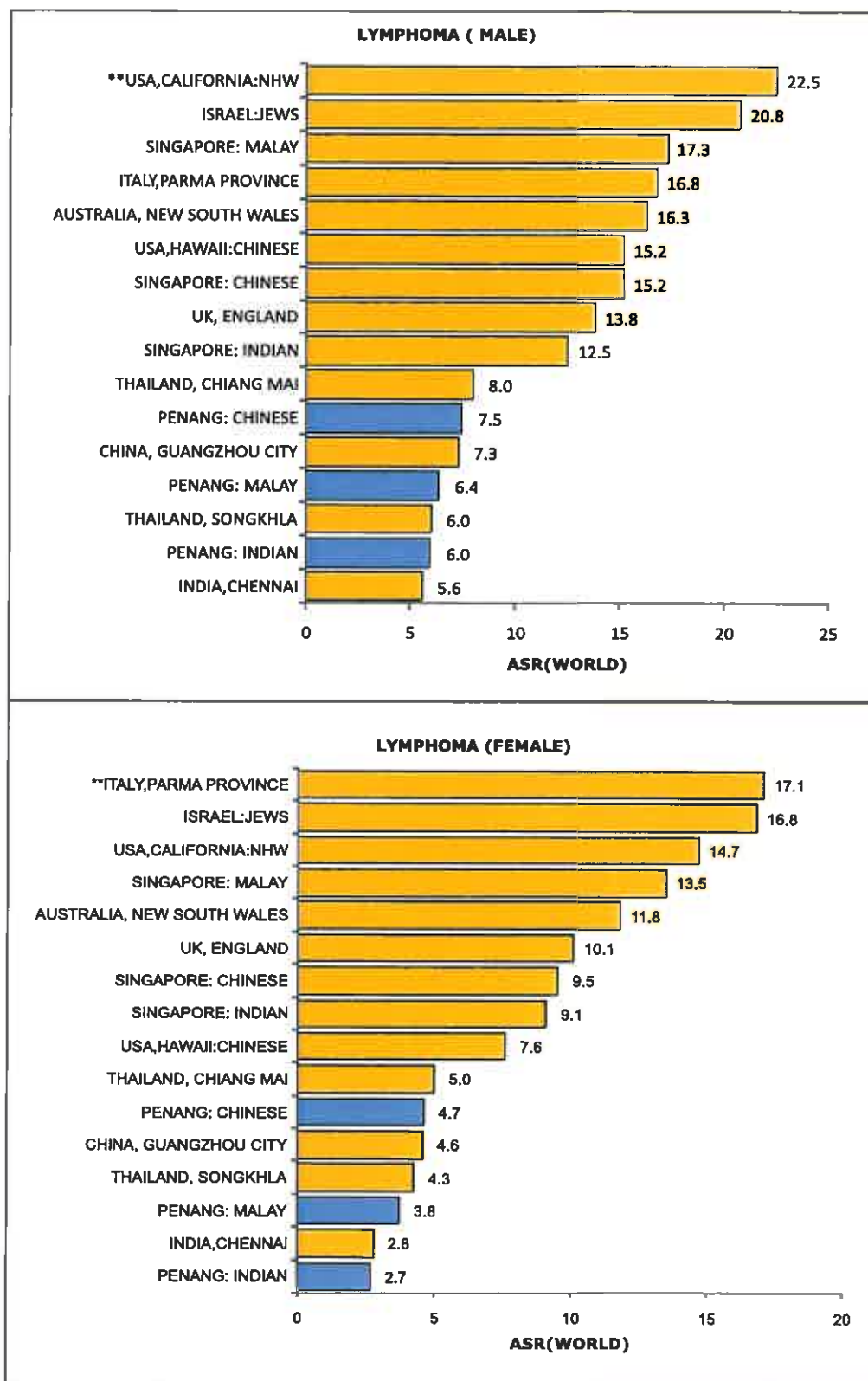


Figure 56. Lymphoma: Stage



** The highest incidence from CI5 Volume IX

Figure 57. Lymphoma : International comparisons - annual age-standardised rates per 100,000

6.10 Leukaemia (ICD-10: C91-C95)

Leukaemias in this report include lymphoid, myeloid and other leukaemias. It ranked ninth in males and eight in females. The total number of cases was 174 males (ASR 5.4) and 161 females (ASR 4.8). Malay males had the highest incidence rates (ASR 6.2), followed by Indians (ASR 5.1) and Chinese males (ASR 4.7). In females, the Chinese had the highest rate with ASR 5.4, followed by Indians 4.7 and 4.1 for Malay.

The cumulative risk for males was 0.5 and 0.4 for females. The life time risk for all males was 1 in 200 and all females was 1 in 242. In Malays it was 1 in 197 in males and 1 in 305 in females, 1 in 206 in Chinese males and 1 in 215 in females. For Indians it was 1 in 235 males and 1 in 227 in females.

Leukaemia was the main cancer for both sexes in children (0-14 years), comprising 36.8% and 48.2% of all cancers in males and females respectively.

International comparisons show that, the highest incidence rate was for New Zealand in males (ASR 14.8) and for Italy, Barase Province in females (ASR 9.3), while the lowest was for Uganda, Kyadondo both in males (ASR 1.3) and females (1.4).

ALL RESIDENTS	MALE					FEMALE				
	NO.	CR	CR74	ASR	(ASR 95%CL)	NO.	CR	CR74	ASR	(ASR 95%CL)
2004 - 2008	174	5.0	0.50	5.4	(4.54, 6.16)	161	4.6	0.41	4.8	(4.01, 5.50)
1999 - 2003	154	4.8	0.44	5.1	(4.32, 5.99)	128	3.9	0.35	4.2	(3.39, 4.84)
1994 - 1998	10	3.8	0.33	4.1	(3.32, 4.90)	78	2.7	0.26	3.0	(2.25, 3.57)
2004	32	4.7	0.41	4.5	(2.92, 6.13)	38	5.5	0.59	6.1	(4.12, 8.10)
2005	32	4.6	0.49	4.9	(3.18, 6.67)	37	5.2	0.58	6.0	(4.03, 7.98)
2006	35	4.9	0.43	5.2	(3.43, 6.92)	25	3.6	0.30	3.9	(2.35, 5.43)
2007	36	5.2	0.42	5.3	(3.54, 7.06)	32	4.5	0.42	4.5	(2.93, 6.10)
2008	29	4.0	0.41	4.2	(2.68, 5.81)	39	5.4	0.49	5.7	(3.9, 7.55)
2004 - 2008										
TIMUR LAUT	57	4.9	0.44	4.8	(3.51, 6.05)	57	4.9	0.44	4.8	(3.51, 6.05)
BARAT DAYA	24	5.0	0.44	5.3	(3.14, 7.44)	24	5.0	0.44	5.3	(3.14, 7.44)
SPU	34	4.8	0.41	5.3	(3.46, 7.08)	34	4.8	0.41	5.3	(3.46, 7.08)
SPT	35	4.2	0.42	4.4	(2.90, 5.81)	35	4.2	0.42	4.4	(2.90, 5.81)
SPS	11	3.1	0.26	3.5	(1.43, 5.64)	11	3.1	0.26	3.5	(1.43, 5.64)

MALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	83	5.4	0.51	6.2	73	4.6	0.49	4.7	18	5.0	0.43	5.1
1999 - 2003	66	4.9	0.48	5.4	76	4.9	0.45	5.3	12	3.5	0.32	4.0
1994 - 1998	47	4.2	0.36	4.4	53	3.7	0.30	3.8	10	3.1	0.43	4.1

FEMALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	58	3.7	0.33	4.1	86	5.4	0.47	5.4	17	4.5	0.44	4.7
1999 - 2003	43	3.2	0.33	3.4	70	4.7	0.37	4.5	14	4.1	0.39	4.3
1994 - 1998	28	2.4	0.17	2.5	36	2.5	0.28	2.7	14	4.5	0.39	4.9

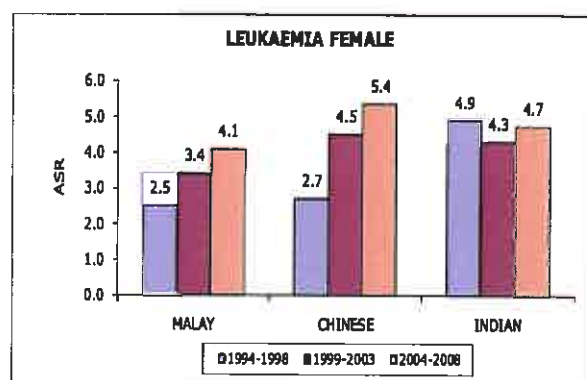
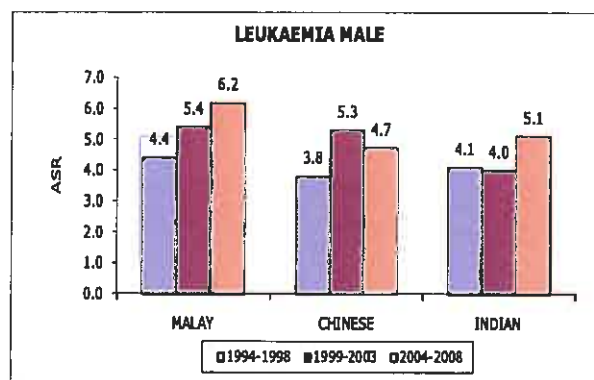


Figure 58. Leukaemia: Ethnic Variations (1994-2008)- annual age-standardised rates per 100,000

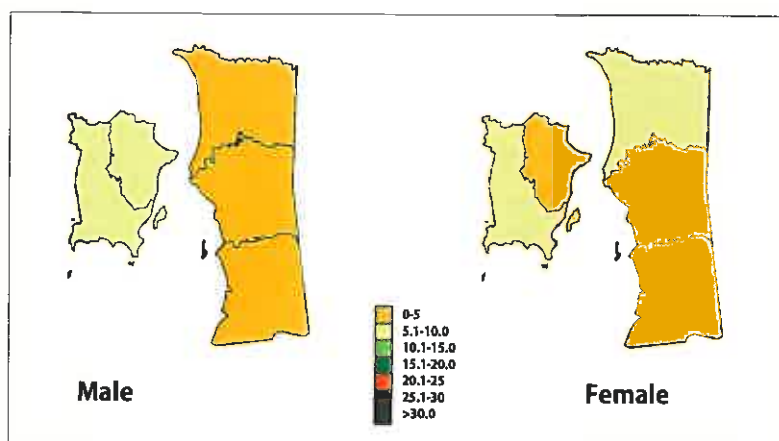


Figure 59. Leukemia : ASR by District

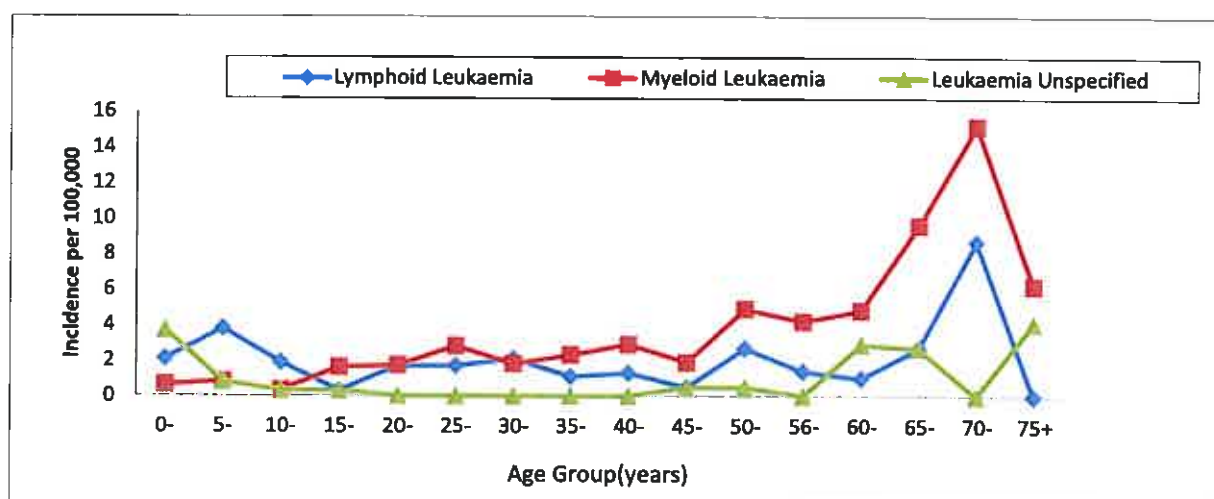


Figure 60. Leukaemia : Average annual age-specific incidence rate, males, Penang 2004-2008

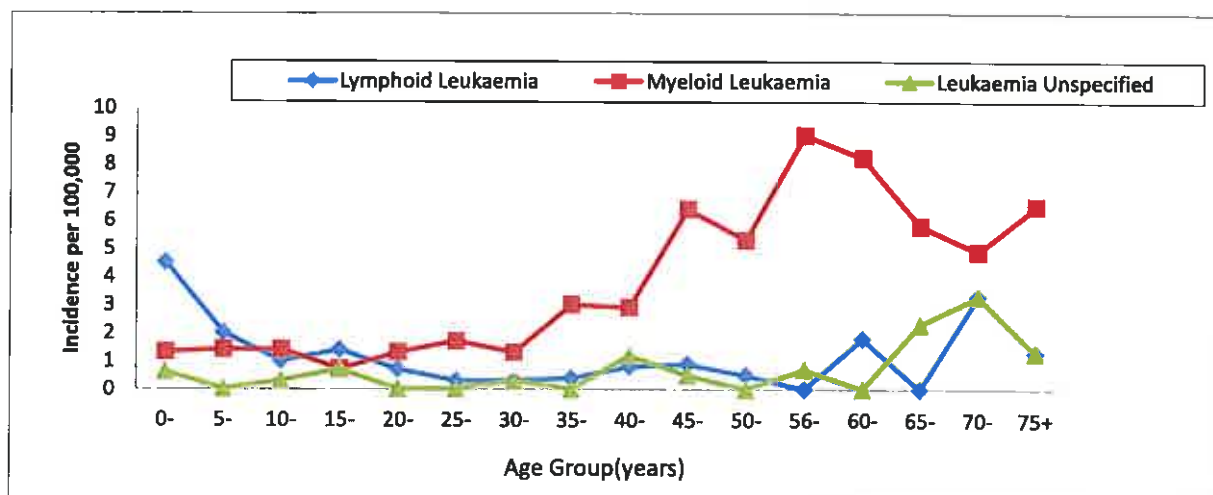
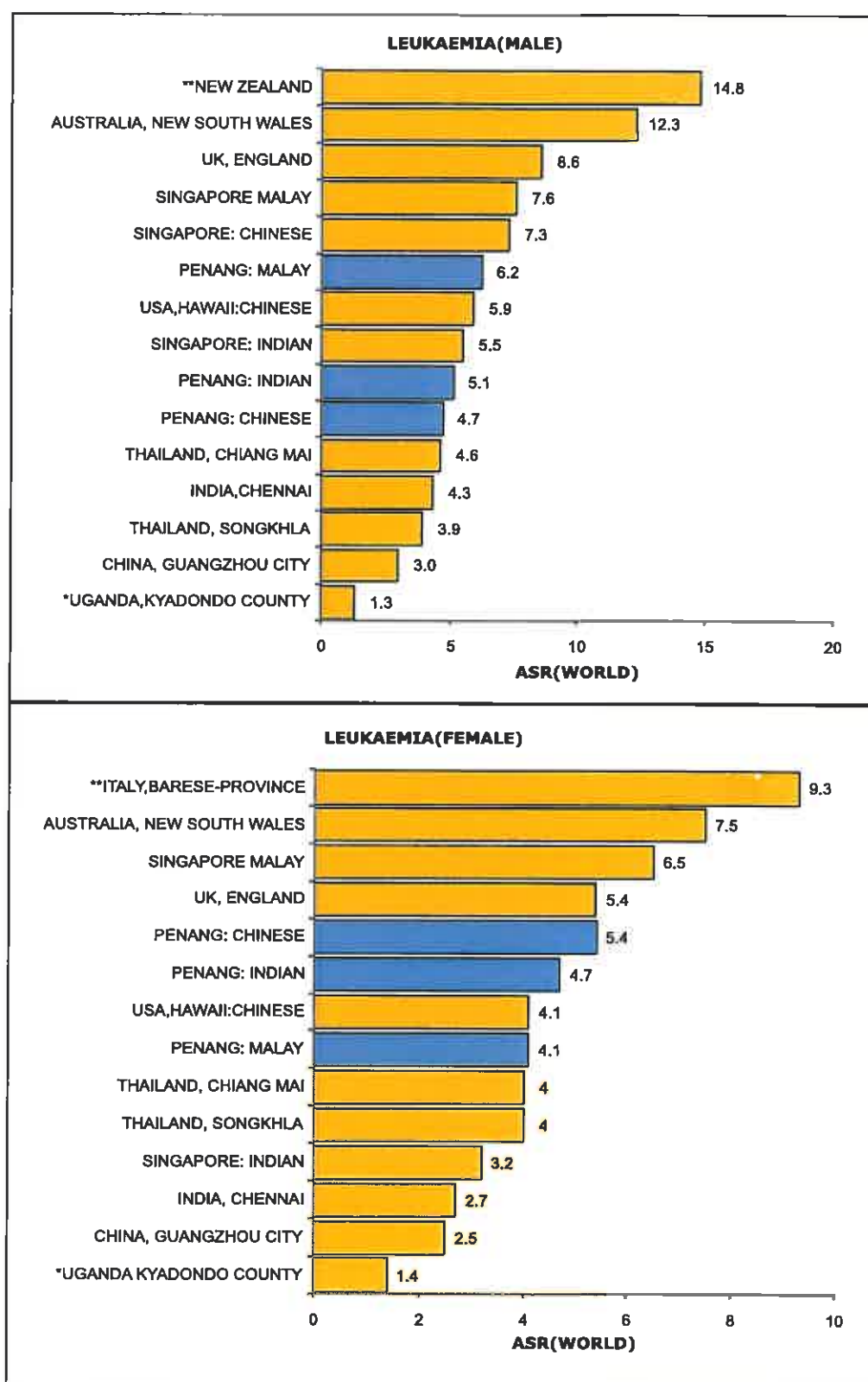


Figure 61. Leukaemia : Average annual age-specific incidence rate, females, Penang 2004-2008



** The highest incidence from CI5 Volume IX * The lowest incidence from CI5 Volume IX NB:Singapore (2002-2006 report)
Figure 62. Leukaemia : International comparisons - annual age-standardised rates per 100,000

6.11 Ovary (ICD-10: C56)

Cancer of the ovary ranked fifth among cancers in females with 280 cases (ASR 7.9).

By ethnicity, it was highest among Indians (ASR 10.4), followed by Chinese (ASR 7.9) and Malays (ASR 6.8). Staging was reported in 167 cases (59.6%), of which 33.5% were diagnosed at stage I, 11.4% at stage II, 29.3% at stage III and 25.7% at stage IV.

The overall cumulative risk was 0.9. The life time risk for all females was 1 in 119 ; the highest being Indians 1 in 92 followed by Chinese 1 in 114 and Malays 1 in 146.

International comparisons show that, the highest incidence rate was for Norway (ASR 12.8) while the lowest was for Algeria, Setif (ASR 2.1). Singapore (2004-2008) showed a similar age specific incidence distribution. Unlike Penang, the highest ASR was seen among the Malays (12.7), followed by the Chinese (12.4) and Indians (10.1).

ALL RESIDENTS					
	NO.	CR	CR74	ASR	(ASR 95%CL)
2004 - 2008	280	7.9	0.85	7.9	(6.95, 8.82)
1999 - 2003	244	7.4	0.88	8.0	(6.98, 9.02)
1994 - 1998	185	6.3	0.76	7.1	(6.07, 8.16)
2004	48	7.0	0.68	6.9	(4.93, 8.84)
2005	53	7.6	0.91	7.7	(5.62, 9.82)
2006	58	8.2	0.96	8.2	(6.06, 10.33)
2007	62	8.7	0.85	8.5	(6.35, 10.61)
2008	59	8.1	0.83	8.0	(5.94, 10.07)
2004 - 2008					
TIMUR LAUT	130	11.2	1.02	10.2	(8.42, 11.95)
BARAT DAYA	32	6.7	0.79	7.5	(4.86, 10.14)
SPU	51	7.2	0.89	7.7	(5.57, 9.89)
SPT	44	5.3	0.61	5.4	(3.76, 6.97)
SPS	23	6.5	0.81	6.4	(3.77, 9.10)

FEMALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	87	5.6	0.69	6.8	153	9.7	0.88	7.9	39	10.4	1.09	10.4
1999 - 2003	69	5.0	0.64	6.2	149	9.8	1.01	9.0	23	6.5	0.76	6.8
1994 - 1998	50	4.2	0.56	5.7	118	8.3	0.84	8.0	15	4.8	0.86	6.7

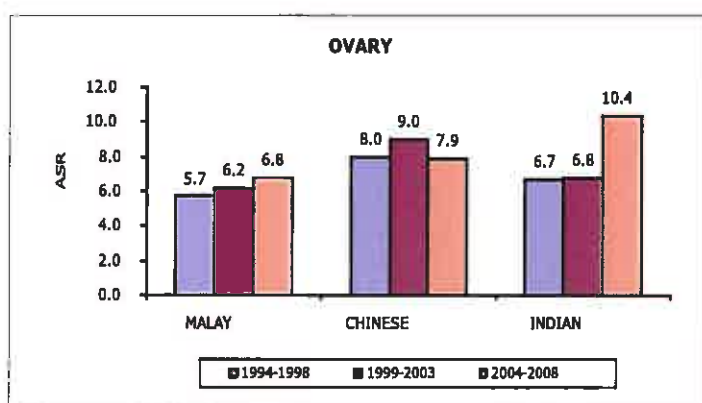


Figure 63. Ovary: Ethnic Variations (1994-2008)
- annual age-standardised rates per 100,000

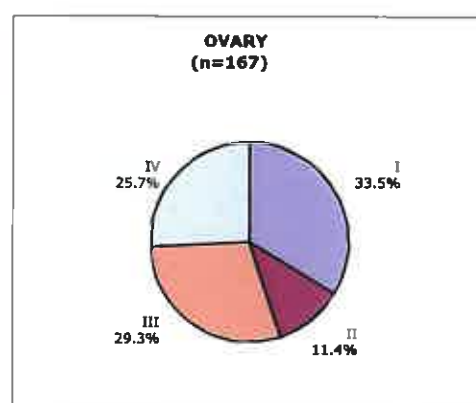


Figure 64. Ovary: Stage

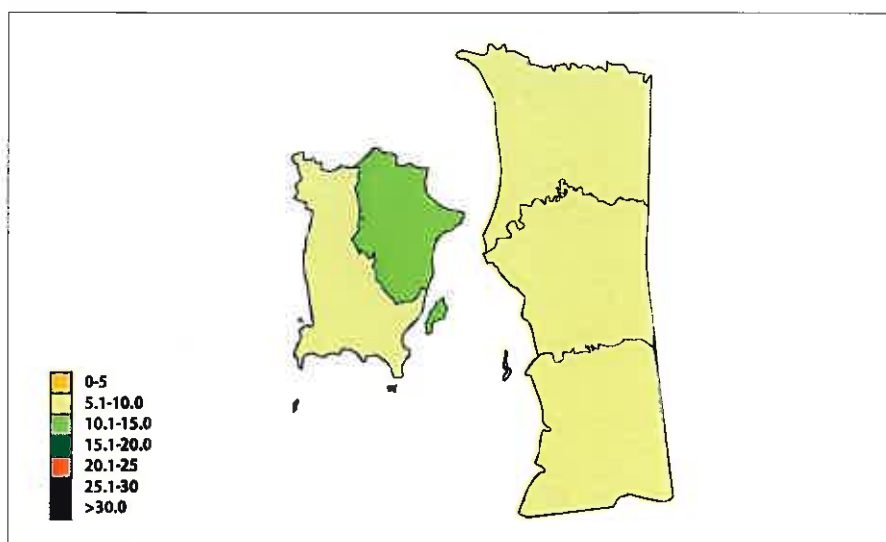
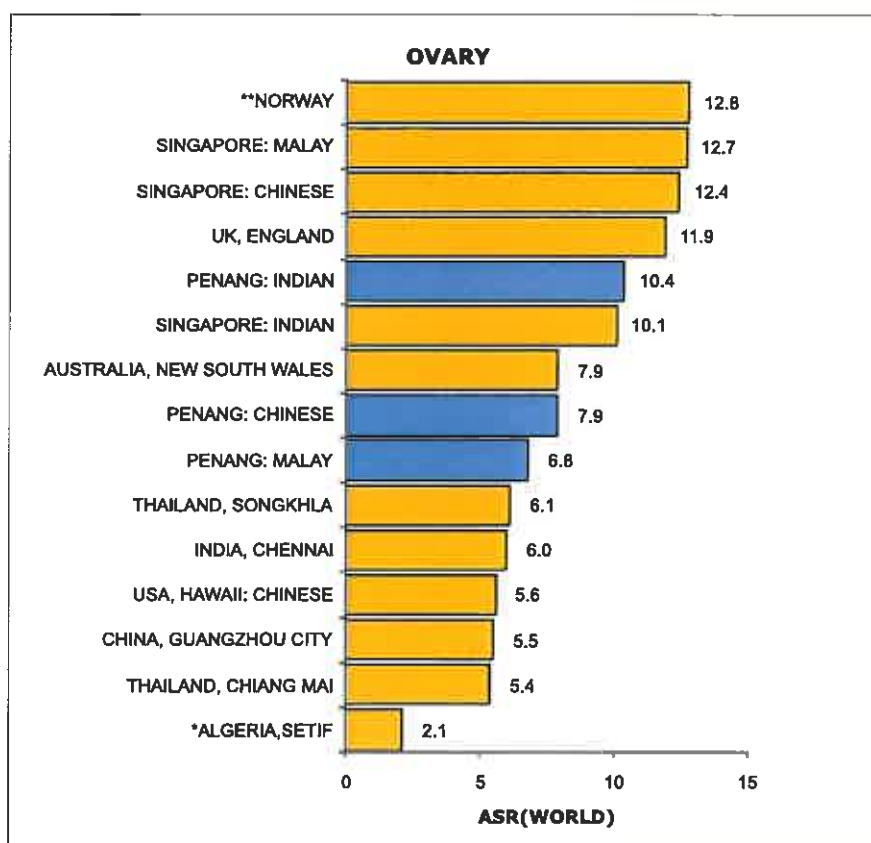


Figure 65. Ovary : ASR by District



** The highest incidence from CIS Volume IX

*The lowest incidence from CIS Volume IX

Figure 66. Ovary : International comparisons – annual age standardised rates per 100,000

6.12 Corpus uteri (ICD-10: C54)

Uterine cancer is the sixth most common cancer among females. A total of 237 cases were reported (ASR 6.9) with an increasing incidence after the age of 30-34 years. The highest incidence was among the Indians (ASR 14.4), followed by the Chinese (6.3) and the Malays (5.8).

Staging was reported in 156 cases (65.8%). Of these 53.8% were diagnosed at stage I, 21.2% at stage II, 14.1% at stage III and 10.9% at stage IV.

The cumulative risk for all races is 0.82. It was 1.8 for the Indians, 0.74 for the Chinese and 0.67 for the Malays. The life time risk was 1 in 123.

International comparisons show that, the highest incidence rate was for USA, Pennsylvania: White (ASR 23.1) while the lowest was for OMAN: Omani (ASR 0.9). Singapore (2004-2008) had higher incidence for Malays and Chinese compare to Penang.

ALL RESIDENTS					
	NO.	CR	CR74	ASR	(ASR 95%CL)
2004 - 2008	237	6.7	0.82	6.9	(6.02, 7.80)
1999 - 2003	141	4.3	0.57	4.8	(3.97, 5.56)
1994 - 1998	98	3.3	0.46	4.0	(3.12, 4.70)
2004	48	7.0	0.85	7.2	(5.16, 9.29)
2005	39	5.6	0.74	5.9	(4.04, 7.79)
2006	51	7.2	0.90	7.5	(5.43, 9.60)
2007	47	6.6	0.77	6.7	(4.74, 8.61)
2008	52	7.1	0.83	7.2	(5.21, 9.16)
2004 - 2008					
TIMUR LAUT	122	10.5	1.19	9.8	(8.05, 11.56)
BARAT DAYA	32	6.7	0.82	7.7	(4.98, 10.40)
SPU	29	4.1	0.55	4.7	(2.95, 6.39)
SPT	40	4.8	0.55	4.8	(3.32, 6.35)
SPS	14	4.0	0.57	4.1	(1.94, 6.34)

FEMALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	65	4.2	0.67	5.8	124	7.8	0.74	6.3	46	12.3	1.81	14.4
1999 - 2003	25	1.8	0.26	2.4	94	6.2	0.64	5.5	19	5.4	1.12	7.7
1994 - 1998	23	2.0	0.33	2.8	66	4.6	0.53	4.6	8	2.6	0.49	3.9

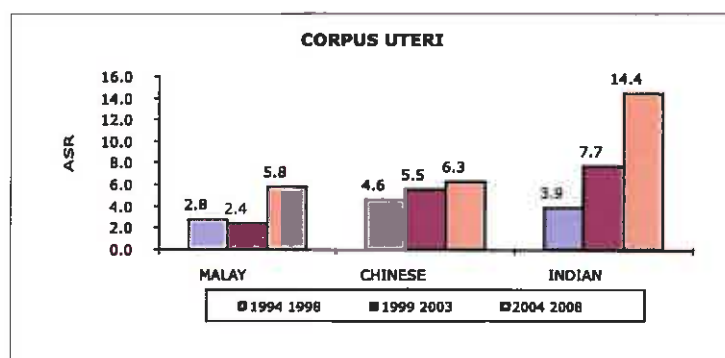


Figure 67. Corpus Uteri: Ethnic Variations (1994-2008)
- annual age-standardised rates per 100,000

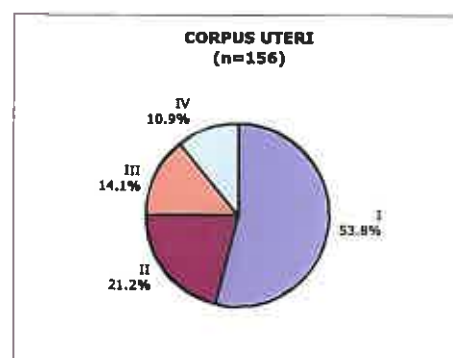


Figure 68. Corpus Uteri: Stage

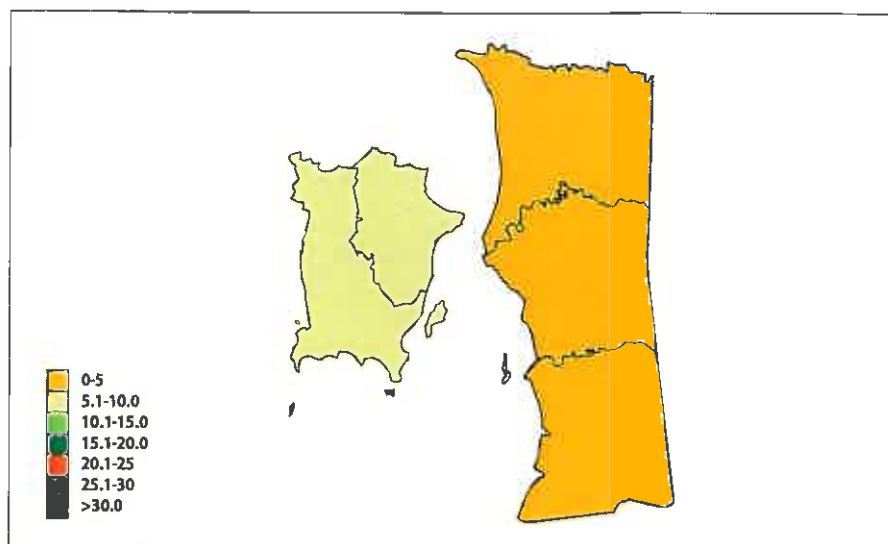
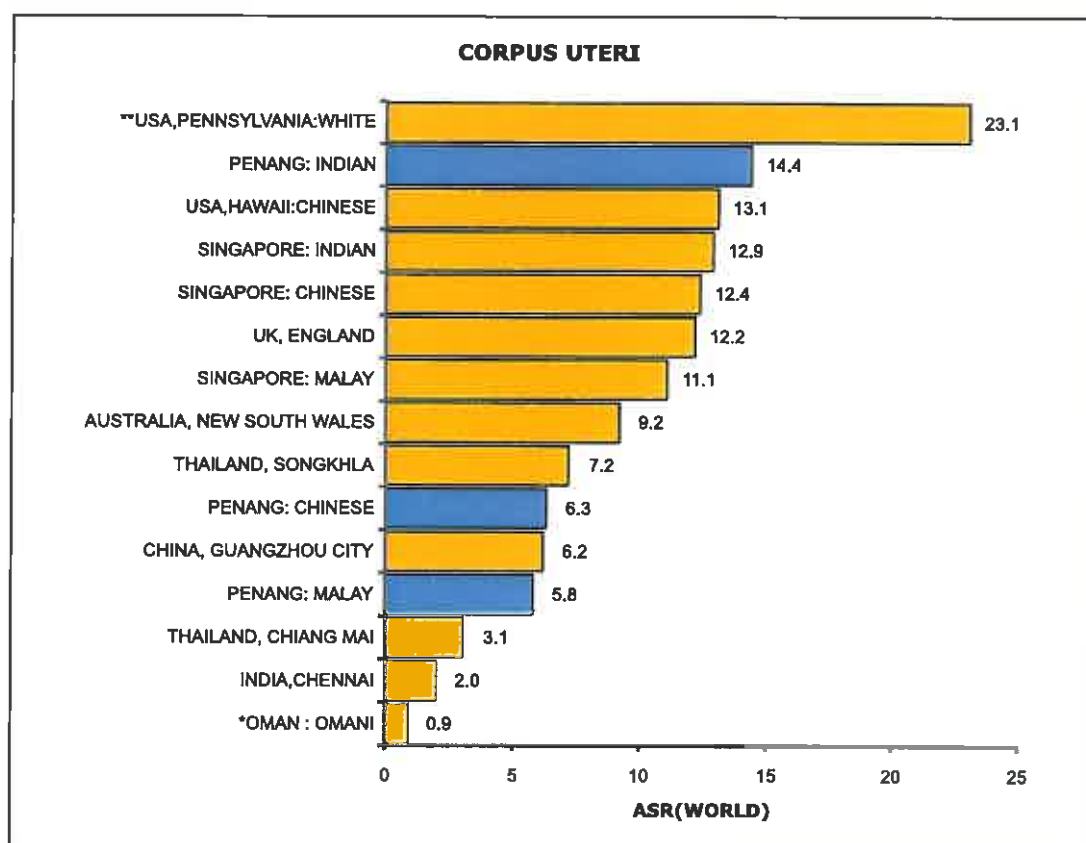


Figure 69. Corpus Uteri : ASR by District



**The highest incidence from CIS Volume IX

*The lowest incidence from CIS Volume IX

Figure 70. Corpus Uteri : International comparisons – annual age standardised rates per 100,000

6.13 Bladder (ICD-10: C67)

Bladder cancer was ranked eighth in males with 191 cases (ASR 7.0). There were 57 cases in females (ASR 1.7).

Among the ethnic groups, it was observed that the Indian males had the highest ASR (8.1). The Indians females had the lowest ASR (0.9). Staging was available for 96 male cases (50%) and 23 female cases (40%). 47% of cases in males were diagnosed at stage 1 and 26.1% were diagnosed at stage 1 in females.

The cumulative risk for males was 0.8 and for females 0.2. The life time risk for all males was 1 in 123 and for females was 1 in 489. For Indians 1 in 116, Chinese 1 in 124 and 1 in 126 in Malays.

International comparisons show that, the highest incidence rate was For Italy, Genoa Province (ASR 40.4) in males and Italy, Sondrio (ASR 10.1) in females. While the lowest was for India, Trivandrum (ASR 1.9) in males and in India, Karunagappalli (ASR 0.2) in females. In comparison to Singapore (2004-2008), Penang Indians had higher ASR for males but lower for females.

ALL RESIDENTS	MALE					FEMALE				
	NO.	CR	CR74	ASR	(ASR 95%CL)	NO.	CR	CR74	ASR	(ASR 95%CL)
2004 - 2008	191	5.5	0.82	7.0	(5.98, 8.00)	57	1.6	0.20	1.7	(1.27, 2.18)
1999 - 2003	123	3.8	0.70	5.4	(4.40, 6.32)	31	0.9	0.12	1.1	(0.71, 1.50)
1994 - 1998	105	3.6	0.66	5.5	(4.46, 6.59)	50	1.7	0.19	2.0	(1.41, 2.51)
2004	41	6.0	1.03	7.9	(5.40, 10.29)	31	4.5	0.64	5.9	(3.78, 8.00)
2005	43	6.1	0.81	7.8	(5.41, 10.13)	41	5.8	0.81	7.3	(4.99, 9.52)
2006	35	4.9	0.81	6.2	(4.14, 8.33)	16	2.3	0.27	2.5	(1.24, 3.66)
2007	10	1.4	0.13	1.5	(0.55, 2.39)	6	0.9	0.17	0.9	(0.18, 1.70)
2008	13	1.8	0.26	2.0	(0.92, 3.15)	12	1.7	0.20	1.7	(0.74, 2.73)
2004 - 2008										
TIMUR LAUT	77	6.9	0.90	7.8	(6.05, 9.58)	21	4.5	0.71	6.8	(3.82, 9.80)
BARAT DAYA	37	5.2	0.78	7.0	(4.70, 9.37)	37	4.4	0.76	5.9	(3.95, 7.81)
SPU	19	5.3	0.86	6.9	(3.72, 10.11)	34	2.9	0.30	2.7	(1.79, 3.63)
SPT	3	0.6	0.15	0.9	(-0.12, 1.92)	7	1.0	0.09	1.1	(0.27, 1.92)
SPS	7	0.8	0.17	1.0	(0.25, 1.71)	6	1.7	0.19	1.8	(0.34, 3.15)

MALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	58	3.8	0.79	7.2	113	7.1	0.81	6.8	19	5.2	0.86	8.1
1999 - 2003	34	2.5	0.69	4.6	75	4.9	0.67	5.5	14	4.0	0.90	7.1
1994 - 1998	22	2.0	0.39	3.5	72	5.1	0.82	6.6	8	2.5	0.70	4.4

FEMALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	15	1.0	0.25	1.6	39	2.5	0.20	1.9	3	0.8	0.09	0.9
1999 - 2003	4	0.3	0.07	0.5	21	1.4	0.13	1.2	6	1.7	0.28	2.6
1994 - 1998	4	0.3	0.09	0.5	40	2.8	0.25	2.6	6	1.9	0.13	2.8

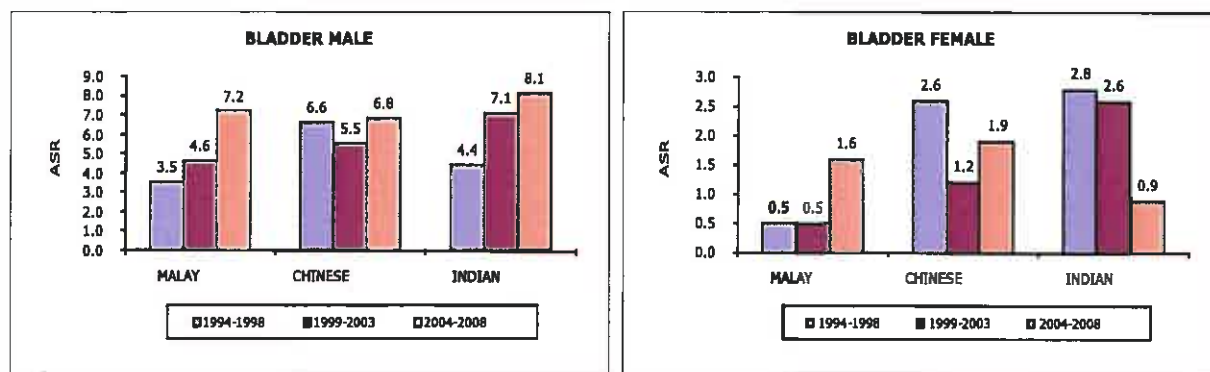


Figure 71. Bladder: Ethnic Variations (1994-2008) - annual age-standardised rates per 100,000

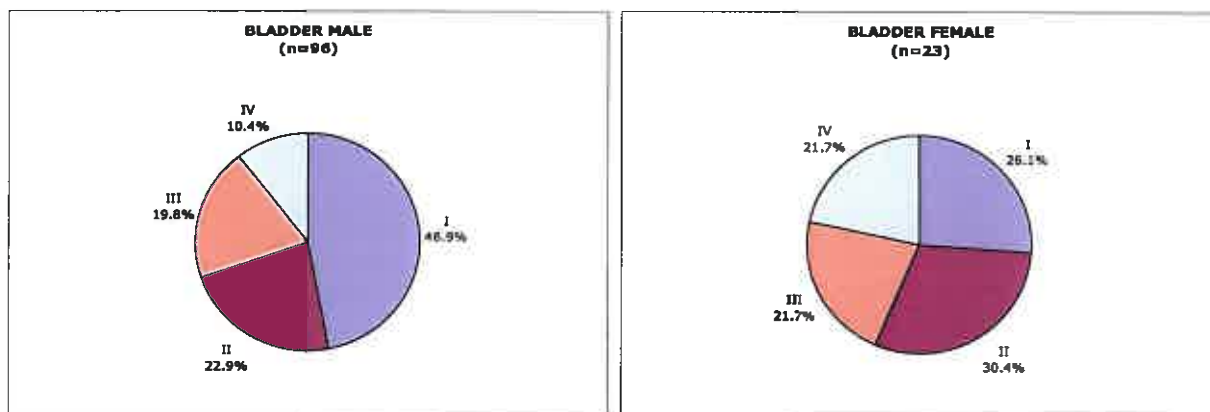
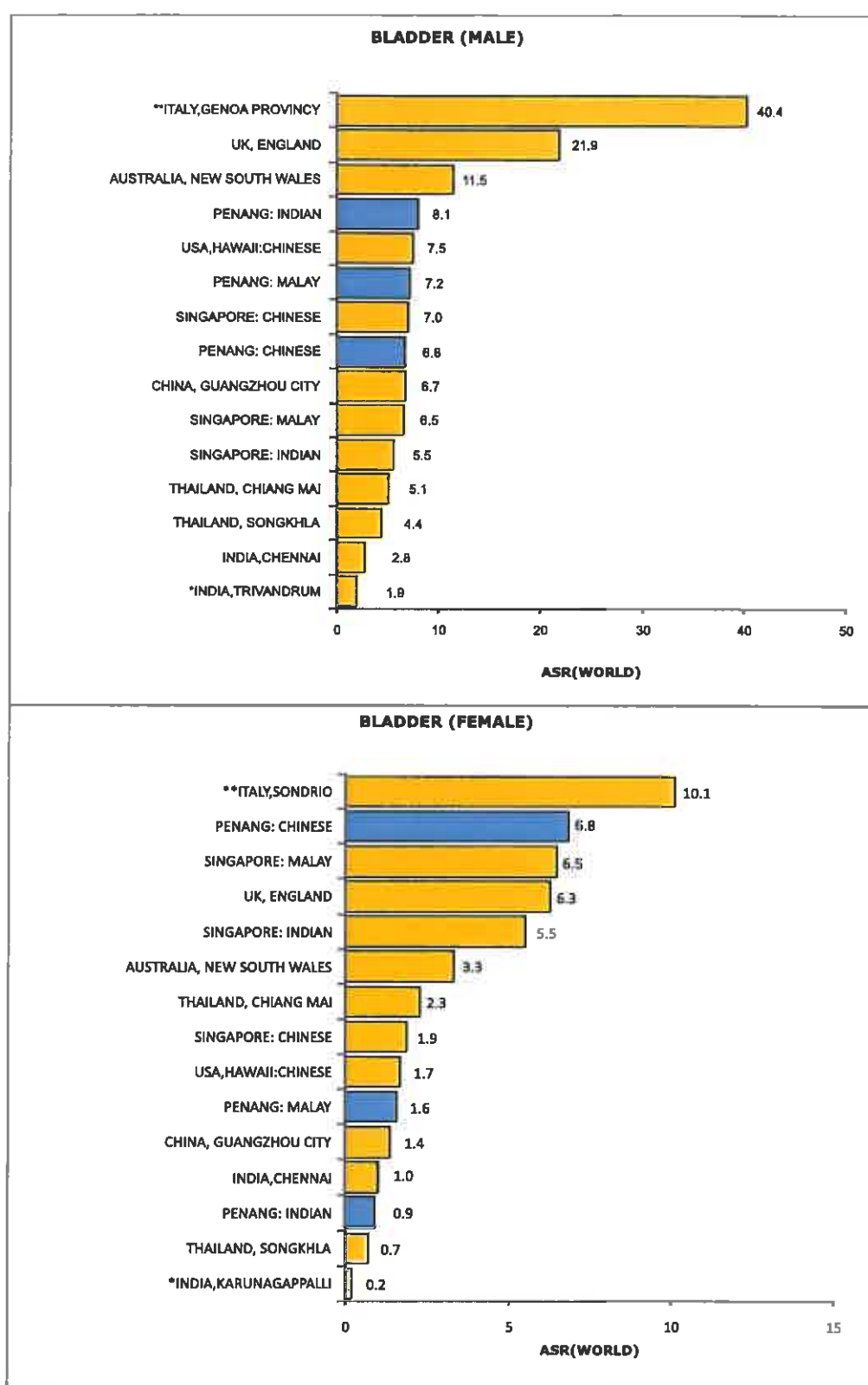


Figure 72. Bladder: Stage



**The highest incidence from CI5 Volume IX

*The lowest incidence from CI5 Volume IX

Figure 73. Bladder : International comparisons – annual age standardised rates per 100,000

6.14 Other Skin (ICD-10: C44)

Skin cancer other than melanoma ranked tenth in males with a total of 137 cases (ASR 4.9). The Chinese had the highest ASR with 6.4 followed by the Indians (ASR 2.5) and Malays (ASR 2.0). Staging was reported for 34 cases (25%). Of these, 73.5% were diagnosed at stage I, 11.8% at stage II, 8.8% at stage III and 5.9% at stage IV.

The cumulative risk for all males was 0.6; It was 0.8 for Chinese, 0.3 for Indians and 0.2 for Malays. The life time risk for all males was 1 in 164; for Chinese it was 1 in 126, for Indians 1 in 301 and Malays it was 1 in 434.

In females there were 94 cases (ASR 2.8). The rate was highest in Chinese ASR 3.5 followed by Malays ASR 1.5 and 1.1 in Indians. Staging for the females were reported in 24 cases (25%). There were 79.2% diagnosed at stage I, 8.3% at stage II, 4.2% at stage III, and 8.3% at stage IV.

The cumulative risk for all females was 0.3, it was 0.4 for Chinese and 0.2 for Malays and Indians. The life time risk for all females was 1 in 357; for Chinese it was 1 in 281, for Indians it was 1 in 543 and Malays 1 in 591.

International comparisons show that, Penang rates was much more lower compare to Singapore and Australia in both sexes.

ALL RESIDENTS		MALE					FEMALE						
	NO.	CR	CR74	ASR	(ASR 95%CL)		NO.	CR	CR74	ASR	(ASR 95%CL)		
2004 - 2008	137	3.9	0.61	4.9	(4.06, 5.74)		94	2.7	0.28	2.8	(2.19, 3.31)		
1999 - 2003	105	3.2	0.44	4.4	(3.52, 5.22)		89	2.7	0.32	3.1	(2.41, 3.69)		
1994 - 1998	112	3.9	0.59	5.6	(4.57, 6.69)		106	3.6	0.42	4.2	(3.37, 4.98)		
2004	20	2.9	0.45	3.7	(2.02, 5.28)		21	3.0	0.49	4.0	(2.26, 5.76)		
2005	21	3.0	0.32	3.7	(2.07, 5.27)		41	5.8	0.92	7.0	(4.80, 9.19)		
2006	34	4.7	0.83	5.9	(3.91, 7.96)		25	3.6	0.38	3.9	(2.35, 5.43)		
2007	20	2.9	0.27	2.9	(1.64, 4.22)		16	2.3	0.25	2.4	(1.20, 3.54)		
2008	18	2.5	0.31	2.6	(1.38, 3.79)		15	2.1	0.20	2.1	(1.00, 3.09)		
2004 - 2008													
TIMUR LAUT	81	7.3	0.97	8.2	(6.39, 10.01)		19	4.1	0.72	5.5	(2.92, 7.99)		
BARAT DAYA	14	2.0	0.39	2.7	(1.24, 4.17)		16	1.9	0.18	2.1	(1.03, 3.10)		
SPU	7	2.0	0.54	2.8	(0.70, 4.86)		51	4.4	0.36	4.0	(2.86, 5.06)		
SPT	10	2.1	0.23	2.2	(0.84, 3.63)		14	2.0	0.36	2.4	(1.14, 3.71)		
SPS	10	1.2	0.16	1.3	(0.48, 2.07)		9	2.6	0.17	2.5	(0.87, 4.17)		
MALES		MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR		NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	19	1.2	0.23	2.0		105	6.6	0.79	6.4	8	2.2	0.33	2.5
1999 - 2003	21	1.5	0.30	2.5		76	5.0	0.51	5.4	7	2.0	0.35	3.0
1994 - 1998	17	1.5	0.35	2.5		84	5.9	0.76	7.2	6	1.9	0.34	3.3
FEMALES		MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR		NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	18	1.2	0.17	1.5		72	4.6	0.36	3.5	3	0.8	0.18	1.1
1999 - 2003	14	1.0	0.19	1.5		71	4.7	0.40	4.1	3	0.9	0.19	1.1
1994 - 1998	11	0.9	0.18	1.5		86	6.0	0.52	5.5	6	1.9	0.55	3.3

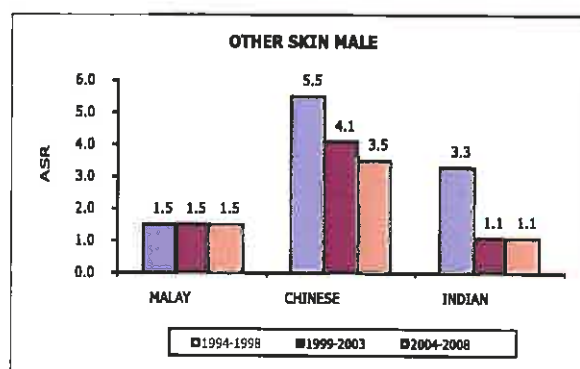
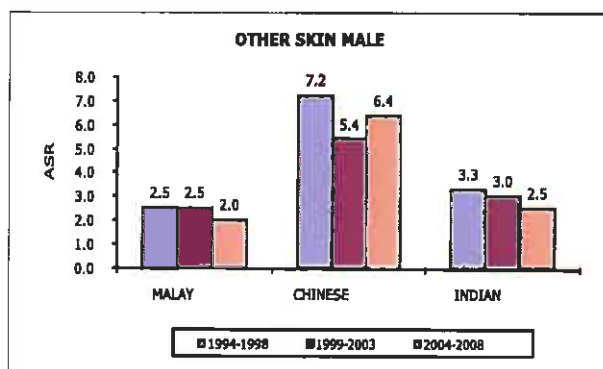


Figure 74. Other skin: Ethnic Variations (1994-2008)- annual age-standardised rates per 100,000

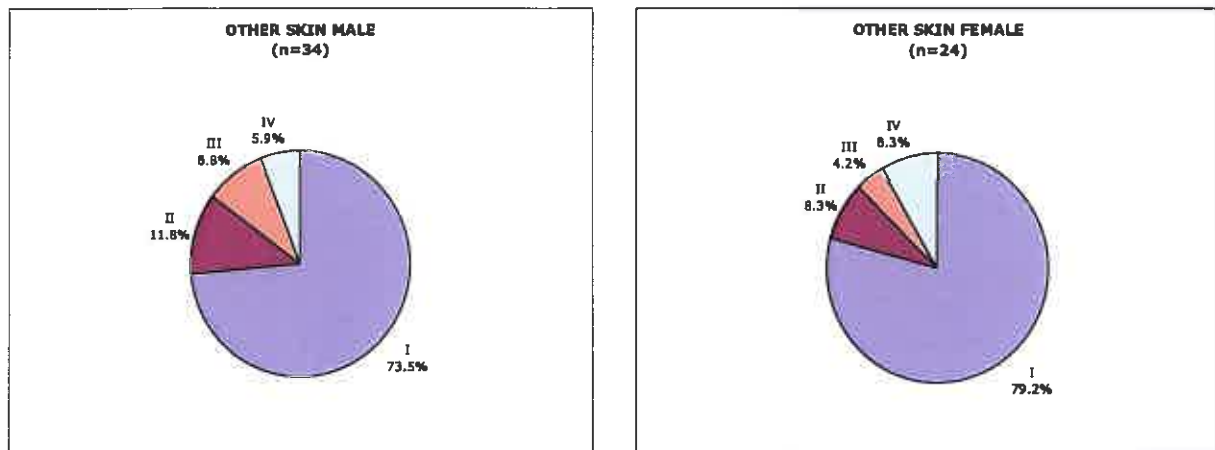


Figure 75. Other skin: Stage

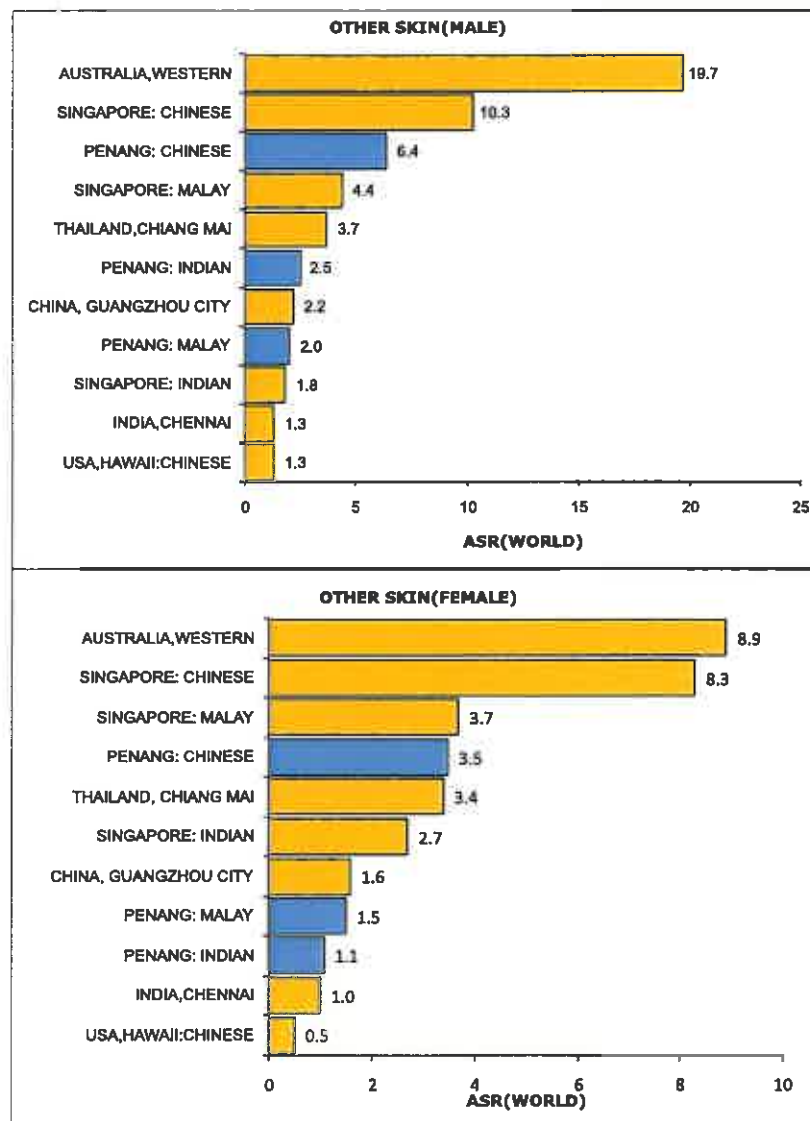


Figure 76. Other Skin : International comparisons – annual age standardised rates per 100,000

6.15 Brain, nervous system (ICD-10: C70-C72)

There were 95 male cases (ASR 2.9) and 73 female cases (ASR 2.1) of brain cancer. The Malays had the highest ASR among the males and the Chinese had the highest ASR among the females. The Indians had the lowest ASR for both genders. It ranked 15th in males most commonest cancer and 16th in females.

Staging was reported in 23 males (24%). Of these, 34.8 % were diagnosed at stage I, 17.4% were diagnosed at stage II, none at stage III and 47.8 % at stage IV. In females, 16 cases (22%) were staged – 37.5 % was diagnosed at stage I and 25.0 % cases at stages II, 6.3% at stage III and 31.3% at stage IV.

The overall cumulative risk was 0.3 for males and 0.2 for females. The life time risk was 1 in 406 in males and 1 in 482 for females.

ALL RESIDENTS	MALE					FEMALE				
	NO.	CR	CR74	ASR	(ASR 95%CL)	NO.	CR	CR74	ASR	(ASR 95%CL)
2004 - 2008	95	2.7	0.25	2.9	(2.28, 3.46)	73	2.1	0.21	2.1	(1.64, 2.63)
1999 - 2003	89	2.7	0.30	3.0	(2.35, 3.63)	77	2.3	0.24	2.4	(1.87, 2.97)
1994 - 1998	60	2.1	0.20	2.2	(1.63, 2.78)	64	2.2	0.22	2.2	(1.67, 2.79)
2004	18	2.6	0.21	2.7	(1.42, 3.91)	14	2.0	0.22	2.3	(1.05, 3.45)
2005	30	4.3	0.39	4.5	(2.86, 6.12)	14	2.0	0.24	2.2	(1.03, 3.42)
2006	19	2.6	0.18	2.7	(1.44, 3.89)	22	3.2	0.40	3.5	(2.02, 4.97)
2007	9	1.3	0.11	1.3	(0.45, 2.15)	15	2.1	0.15	2.1	(1.04, 3.21)
2008	15	2.1	0.22	2.1	(1.03, 3.24)	12	1.7	0.17	1.7	(0.71, 2.63)
2004 - 2008										
TIMUR LAUT	34	3.1	0.27	3.0	(1.97, 4.00)	13	2.8	0.27	3.1	(1.37, 4.88)
BARAT DAYA	19	2.7	0.23	2.9	(1.58, 4.21)	22	2.6	0.26	2.9	(1.63, 4.10)
SPU	7	2.0	0.16	2.2	(0.52, 3.89)	24	2.1	0.22	2.0	(1.16, 2.76)
SPT	5	1.0	0.13	1.1	(0.11, 2.05)	15	2.1	0.20	2.1	(1.03, 3.24)
SPS	18	2.2	0.17	2.4	(1.26, 3.47)	11	3.1	0.34	3.4	(1.35, 5.38)

MALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	43	2.8	0.28	3.4	46	2.9	0.24	2.8	5	1.4	0.11	1.3
1999 - 2003	29	2.1	0.20	2.4	56	3.7	0.37	3.6	3	0.9	0.16	1.2
1994 - 1998	22	2.0	0.18	2.3	33	2.3	0.23	2.3	5	1.6	0.12	1.5

FEMALES	MALAY				CHINESE				INDIAN			
	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR	NO.	CR	CR74	ASR
2004 - 2008	26	1.7	0.19	1.9	43	2.7	0.25	2.7	4	1.1	0.08	1.0
1999 - 2003	35	2.5	0.22	2.6	36	2.4	0.24	2.3	6	1.7	0.24	1.8
1994 - 1998	18	1.5	0.14	1.7	41	2.9	0.26	2.7	5	1.6	0.30	2.0

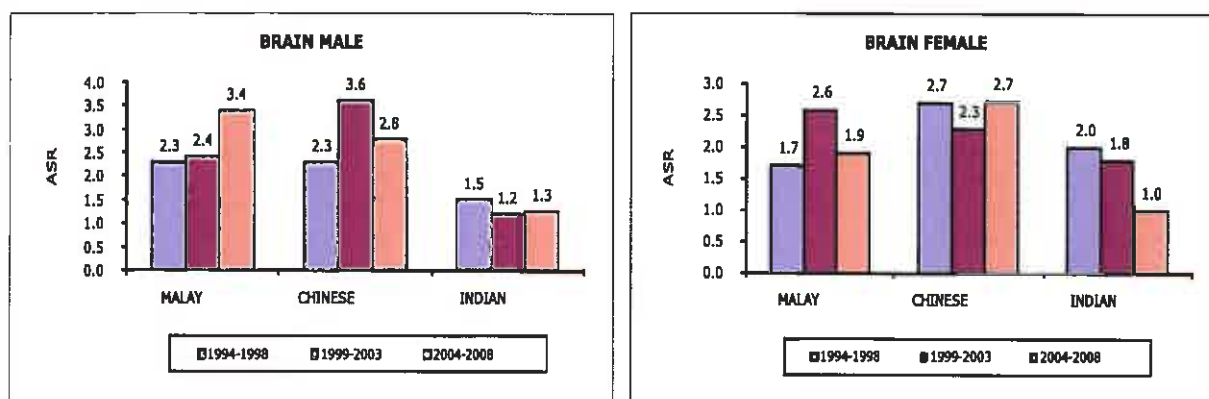
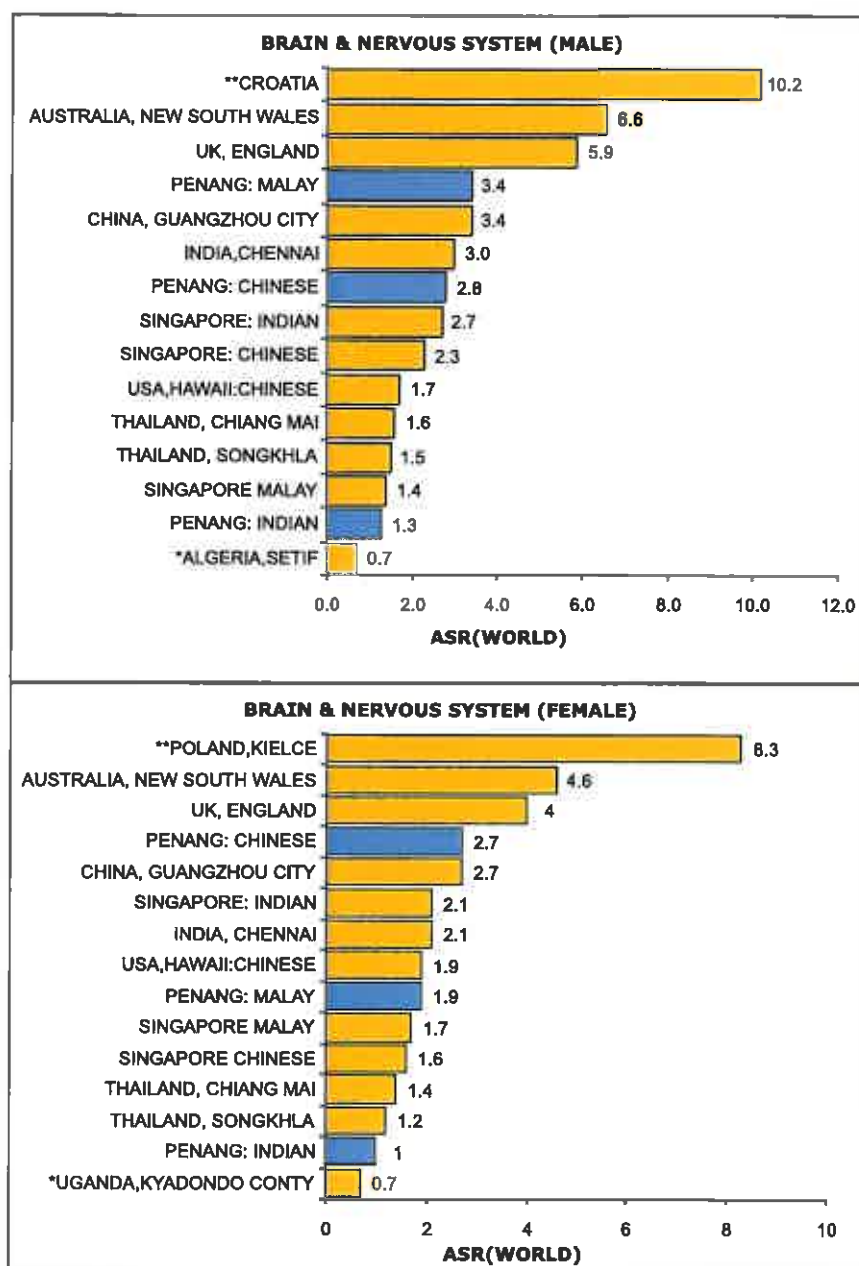


Figure 77. Brain, nervous system: Ethnic Variations (1994-2008)- annual age-standardised rates per 100,000



Figure 78. Brain: Stage

International comparisons show that, the highest incidence rate was for Croatia in males (ASR 10.2) and for Poland, Kielce in females (ASR 8.3), while the lowest was for Algeria, Setif in males (ASR 0.7) and for Uganda, Kyadondo County in females (ASR 0.7). In Singapore (CI5, Vol IX), the incidence in both males and females was lower compared to Penang for Malay and Chinese but higher for Indians.



**The highest incidence from CI5 Volume IX

*The lowest incidence from CI5 Volume IX

Figure 79. Brain, nervous system : International comparisons-annual age standardised rates per 100,000



7. AGE GROUPS AND CANCERS

The relative frequencies of the 5 most common cancers among the sexes in each of the five broad age groups are seen in Figures 80 and 81. The total number of all cases in each age group is also listed.

In children (0-14 years), the main cancers for both the sexes was leukaemia, comprising 36.8% and 48.2% of all cancers in males and females respectively. The second most common cancer notified for males was lymphoma and malignancies of the brain and nervous system was for females.

In youth (15-24 years), leukaemia formed a greater proportion of all cases in males (18.5%) and females (13.2%), followed by lymphoma in males (18.5%) and thyroid in females (11.3%).

In the age group (25-59 years), lung was the most common cancer in males (15.4%), followed by cancer of the large bowel (15.0%), and nasopharynx (12.2%). The highest frequency of cancer seen in females in this age group was breast cancer (41.9%), followed by cervix uteri (9.4%) and large bowel (8.6%).

Cancer of the lung (19.9%) remained the most common cancer among males in the 60-74 years age group and cancer of the breast for females (25.7%) in this age group, followed by cancer of the large bowel for both sexes.

In the elderly 75 years and above, cancer of the lung still remained the most common cancer among males (19.4%) followed by large bowel (18.4%) and prostate (17.9%). In females in this age group, cancer of the large bowel was the most common cancer (23.6%), followed by cancer of the breast (17.0%), stomach (8.4%), lung (8.0%) and cervix uteri (5.3%).

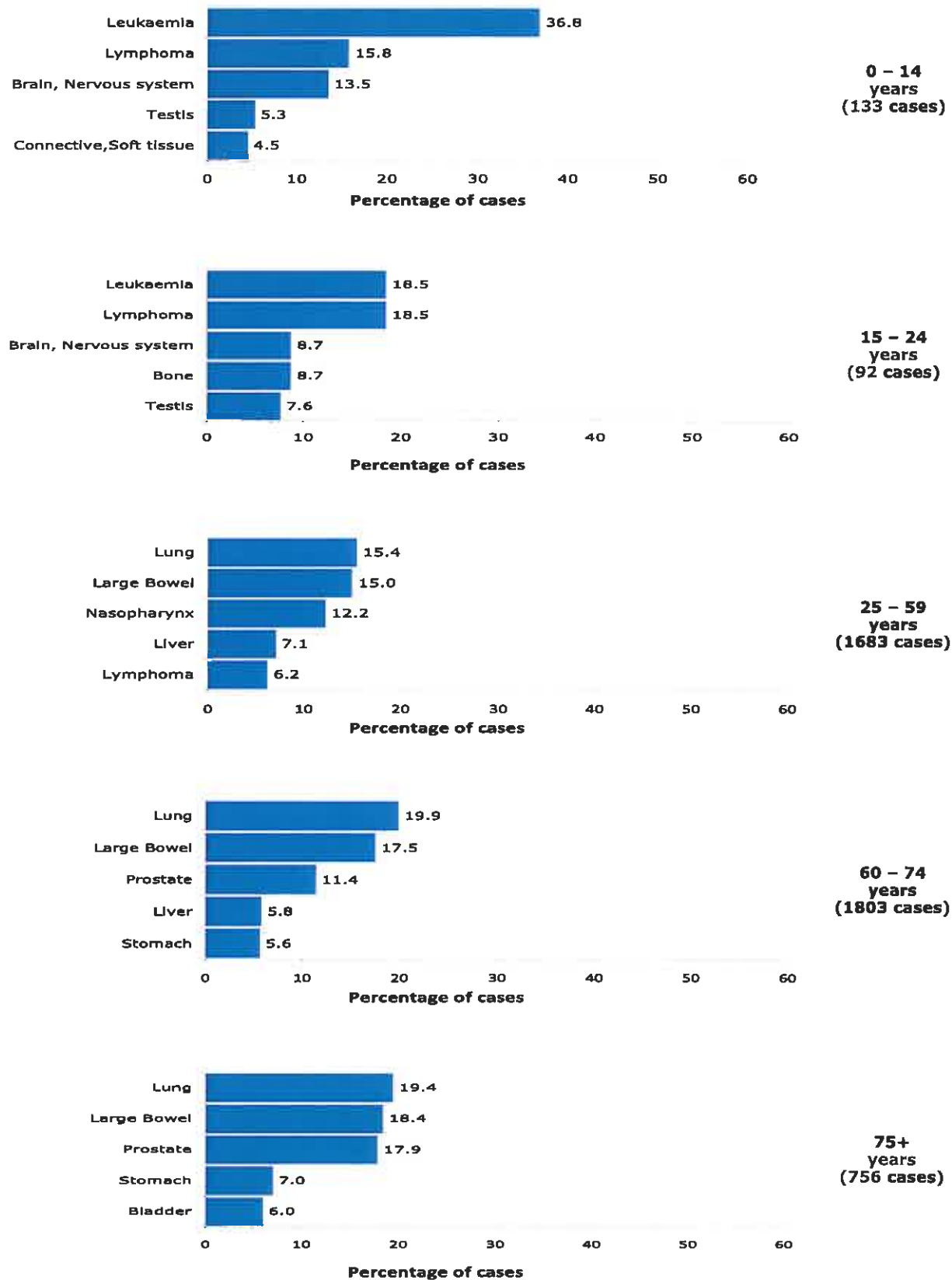


Figure 80: Leading cancers by age group in males, Penang, 2004-2008

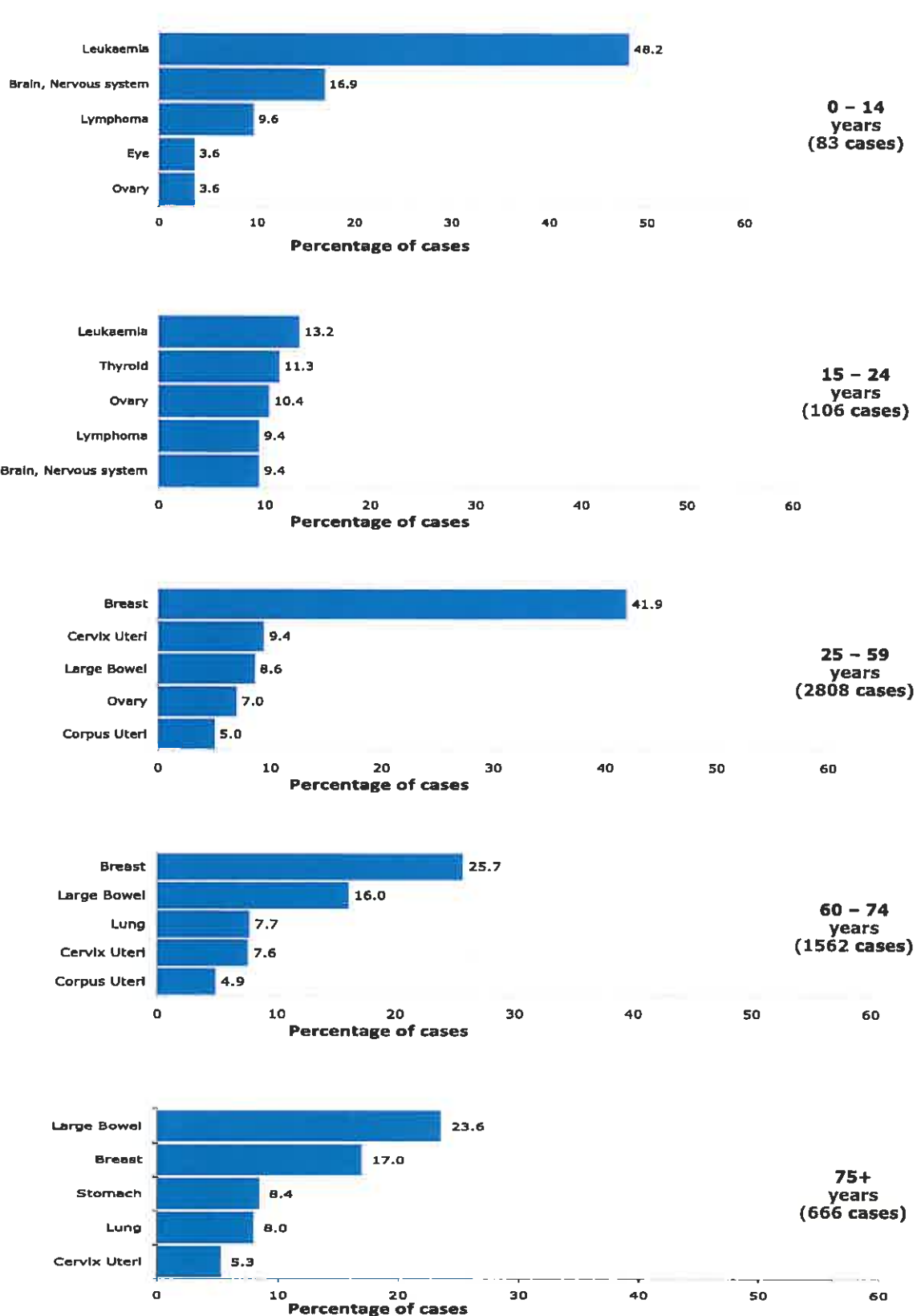


Figure 81: Leading cancers by age group in females, Penang, 2004-2008

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APPENDIX 1

PERSON-YEARS AT RISK BY SEX, ETHNIC AND AGE GROUP, PENANG RESIDENTS, 2004-2008

	ETHNIC GROUP				
AGE GROUP	MALAY	CHINESE	INDIAN	OTHERS	TOTAL
MALE					
0-4	183600	114400	34100	1500	333600
5-9	178600	135400	42800	2000	358700
10-14	157100	125300	34800	1900	319100
15-19	151200	123200	31800	800	307000
20-24	144100	125000	28800	1000	298900
25-29	134100	125000	28900	1000	289000
30-34	126200	125400	29100	1000	281700
35-39	106700	125000	28800	1000	261500
40-44	89800	121500	27000	1000	239300
45-49	76400	114800	23500	1000	215700
50-54	61000	102800	19400	1000	184200
55-59	44800	83600	13700	500	142600
60-64	30700	64900	8700	500	104800
65-69	20900	46200	5900	300	73300
70-74	12600	29900	3600	0	46100
75+	13800	31000	3500	0	48300
Total	1530800	1593900	364400	14700	3503800
FEMALE					
0-4	173700	106200	34300	1500	315700
5-9	168200	128100	42100	2100	340500
10-14	146100	116200	33500	1400	297200
15-19	143700	117900	30100	1000	292700
20-24	147700	121400	28700	1000	298800
25-29	145700	124300	29400	1400	300800
30-34	141500	124500	31000	1500	298500
35-39	115700	122000	30300	1300	269300
40-44	93700	118200	27800	1000	240700
45-49	79400	113400	24500	800	218100
50-54	62900	103000	21400	600	187900
55-59	47100	82800	15200	500	145600
60-64	33900	65300	10300	500	110000
65-69	25700	51900	7500	500	85600
70-74	18000	38100	4700	300	61100
75+	20300	51800	4800	0	76900
Total	1563300	1585100	375600	15400	3539400
TOTAL					
0-4	357300	220600	68400	3000	649300
5-9	346700	263500	84900	4100	699200
10-14	303200	241500	68300	3300	616300
15-19	294900	241100	61900	1800	599700
20-24	291800	246400	57500	2000	597700
25-29	279800	249300	58300	2400	589800
30-34	267700	249900	60100	2500	580200
35-39	222400	247000	59100	2300	530800
40-44	183500	239700	54800	2000	480000
45-49	155800	228200	48000	1800	433800
50-54	123900	205800	40800	1600	372100
55-59	91900	166400	28900	1000	288200
60-64	64600	130200	19000	1000	214800
65-69	46600	98100	13400	800	158900
70-74	30600	68000	8300	300	107200
75+	34100	82800	8300	0	125200
TOTAL	3094800	3178500	740000	29900	7043200



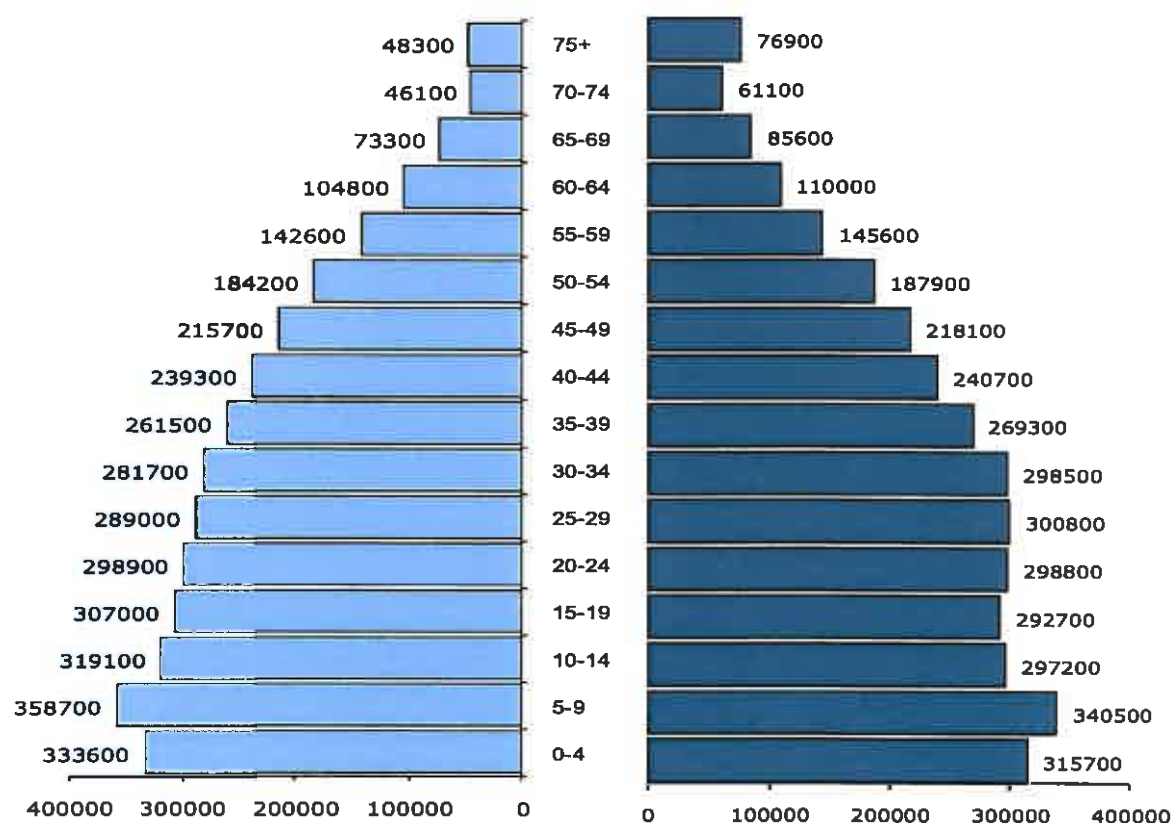
APPENDIX 2

PERSON-YEARS AT RISK BY SEX, DISTRICT AND AGE GROUP, PENANG RESIDENTS, 2004-2008

AGE GROUP	DISTRICT				
	TIMUR LAUT	BARAT DAYA	SPU	SPT	SPS
MALE					
0-4	94400	49100	73600	82200	34500
5-9	106200	50500	76800	87700	37600
10-14	95300	44700	68200	77800	33100
15-19	92400	42800	65300	74900	31500
20-24	91900	41400	62700	72600	30400
25-29	90100	39600	60000	69900	29500
30-34	89000	38000	58000	67800	28900
35-39	85600	34100	52200	62600	27100
40-44	80700	30200	46600	56900	24800
45-49	74300	26700	41400	51000	22300
50-54	64900	22300	34800	43300	18900
55-59	51300	16900	26600	33400	14600
60-64	38600	12200	19100	24400	10500
65-69	27200	8600	13200	17000	7300
70-74	17500	5200	8200	10600	4600
75+	18200	5100	8800	11000	4600
Total	1117600	467400	715500	843100	360200
FEMALE					
0-4	92000	46800	68900	76200	31700
5-9	104500	48100	71600	81600	34600
10-14	92100	41800	62300	71100	29900
15-19	91500	41000	61300	69900	29000
20-24	94200	42300	62300	70800	29200
25-29	95800	42400	62000	71200	29400
30-34	95800	41800	61000	70500	29400
35-39	89600	36000	53600	63300	26800
40-44	82900	31000	46500	56200	23900
45-49	77100	27300	41300	50600	21700
50-54	68300	22900	34700	43300	18700
55-59	53900	17500	26500	33400	14300
60-64	41400	13000	19700	25100	10600
65-69	32600	10100	15300	19500	8300
70-74	23500	7100	10700	13900	5800
75+	30900	8600	13100	17400	7500
Total	1166100	477700	710800	834000	350800
TOTAL					
0-4	186400	95900	142500	158400	66200
5-9	210700	98600	148400	169300	72200
10-14	187400	86500	130500	148900	63000
15-19	183900	83800	126600	144800	60500
20-24	186100	83700	125000	143400	59600
25-29	185900	82000	122000	141100	58900
30-34	184800	79800	119000	138300	58300
35-39	175200	70100	105800	125900	53900
40-44	163600	61200	93100	113100	48700
45-49	151400	54000	82700	101600	44000
50-54	133200	45200	69500	86600	37600
55-59	105200	34400	53100	66800	28900
60-64	80000	25200	38800	49500	21100
65-69	59800	18700	28500	36500	15600
70-74	41000	12300	18900	24500	10400
75+	49100	13700	21900	28400	12100
TOTAL	2283700	945100	1426300	1677100	711000

APPENDIX 3

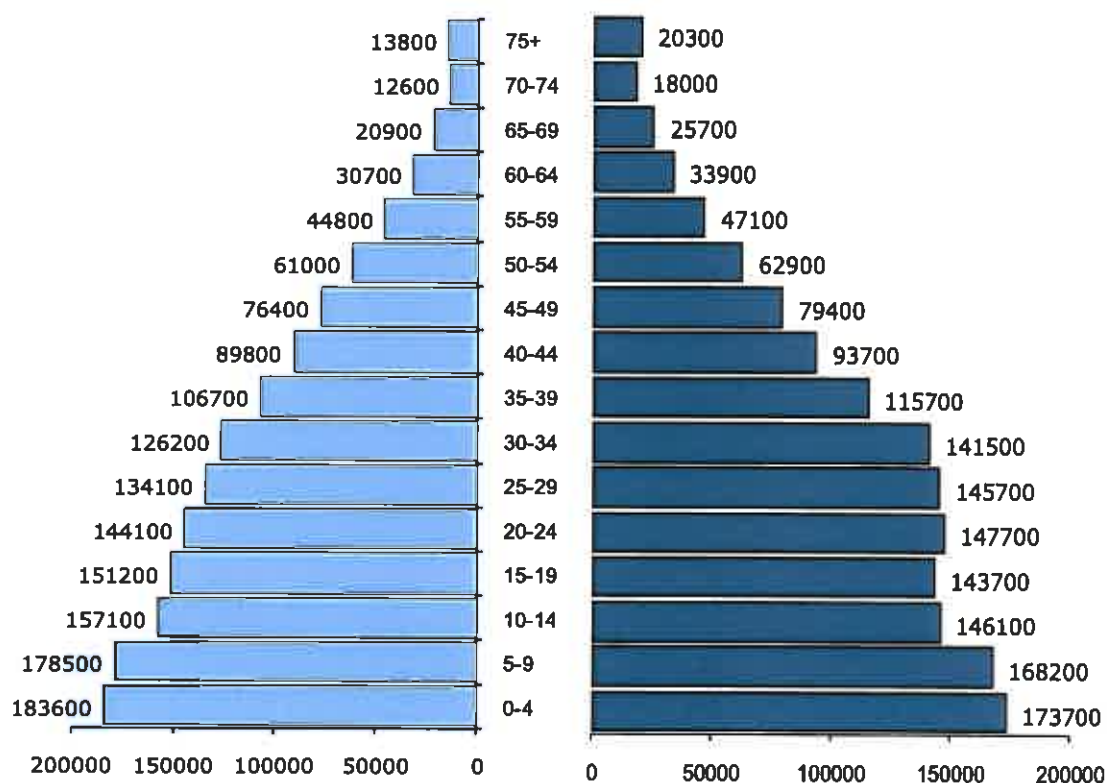
PERSON-YEARS AT RISK, ALL RESIDENTS, PENANG, 2004-2008



AGE GROUP	PENANG POPULATION		WORLD STANDARD POPULATION
	MALE	FEMALE	
0-4	333600	315700	12000
5-9	358700	340500	10000
10-14	319100	297200	9000
15-19	307000	292700	9000
20-24	298900	298800	8000
25-29	289000	300800	8000
30-34	281700	298500	6000
35-39	261500	269300	6000
40-44	239300	240700	6000
45-49	215700	218100	6000
50-54	184200	187900	5000
55-59	142600	145600	4000
60-64	104800	110000	4000
65-69	73300	85600	3000
70-74	46100	61100	2000
75 +	48300	76900	2000
TOTAL	3503800	3539400	100000

APPENDIX 4

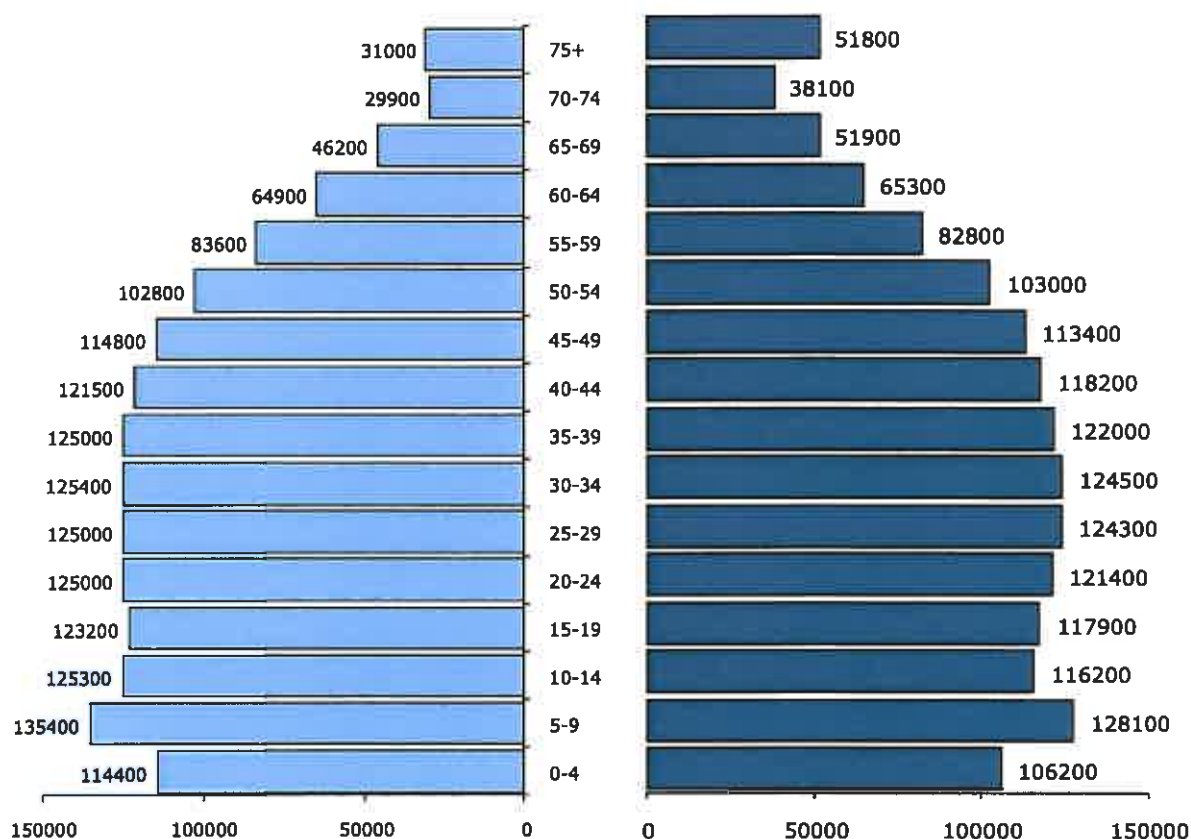
PERSON-YEARS AT RISK, MALAY RESIDENTS, PENANG, 2004-2008



AGE GROUP	PENANG POPULATION		WORLD STANDARD POPULATION
	MALE	FEMALE	
0-4	183600	173700	12000
5-9	178500	168200	10000
10-14	157100	146100	9000
15-19	151200	143700	9000
20-24	144100	147700	8000
25-29	134100	145700	8000
30-34	126200	141500	6000
35-39	106700	115700	6000
40-44	89800	93700	6000
45-49	76400	79400	6000
50-54	61000	62900	5000
55-59	44800	47100	4000
60-64	30700	33900	4000
65-69	20900	25700	3000
70-74	12600	18000	2000
75 +	13800	20300	2000
TOTAL	1530800	1563300	100000

APPENDIX 5

PERSON-YEARS AT RISK, CHINESE RESIDENTS, PENANG, 2004-2008

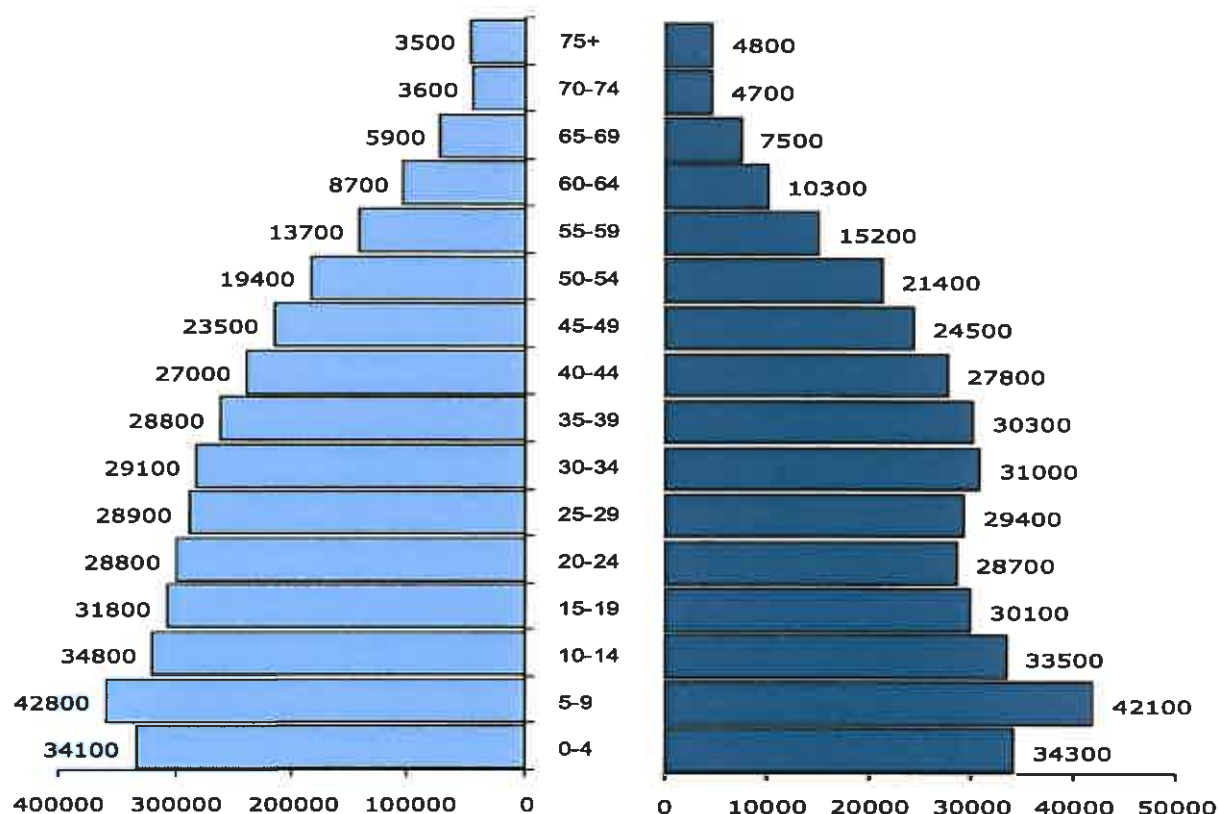


AGE GROUP	PENANG POPULATION		WORLD STANDARD POPULATION
	MALE	FEMALE	
0-4:	114400	106200	12000
5-9:	135400	128100	10000
10-14:	125300	116200	9000
15-19:	123200	117900	9000
20-24:	125000	121400	8000
25-29:	125000	124300	8000
30-34:	125400	124500	6000
35-39:	125000	122000	6000
40-44:	121500	118200	6000
45-49:	114800	113400	6000
50-54:	102800	103000	5000
55-59:	83600	82800	4000
60-64:	64900	65300	4000
65-69:	46200	51900	3000
70-74:	29900	38100	2000
75 + :	31000	51800	2000
TOTAL	1593900	1585100	100000



APPENDIX 6

PERSON-YEARS AT RISK, INDIAN RESIDENTS, PENANG, 2004-2008



AGE GROUP	PENANG POPULATION		WORLD STANDARD POPULATION
	MALE	FEMALE	
0-4:	34100	34300	12000
5-9:	42800	42100	10000
10-14:	34800	33500	9000
15-19:	31800	30100	9000
20-24:	28800	28700	8000
25-29:	28900	29400	8000
30-34:	29100	31000	6000
35-39:	28800	30300	6000
40-44:	27000	27800	6000
45-49:	23500	24500	6000
50-54:	19400	21400	5000
55-59:	13700	15200	4000
60-64:	8700	10300	4000
65-69:	5900	7500	3000
70-74:	3600	4700	2000
75 + :	3500	4800	2000
TOTAL	364400	375600	100000

APPENDIX 7

INCIDENCE SUMMARY TABLE, ALL RESIDENTS, MALES, PENANG, 2004-2008

ICD-10	SITES	NO.	%	CR	CR74	ASR	(ASR 95% CL)
	All sites	4467	100.0	127.5	18.30	156.7	(152.05,161.44)
C33-C34	Trachea,Bronchus,Lung	767	17.2	21.9	3.51	27.9	(25.94,29.96)
C18-C21	Large Bowel	711	15.9	20.3	3.04	25.6	(23.64,27.46)
C61	Prostate	376	8.4	10.7	1.77	15.1	(13.55,16.61)
C11	Nasopharynx	289	6.5	8.3	0.97	8.7	(7.71,9.77)
C22	Liver	263	5.9	7.5	1.07	9.0	(7.89,10.11)
C16	Stomach	228	5.1	6.5	0.96	8.3	(7.22,9.42)
C81-C85;C96	Lymphoma	225	5.0	6.4	0.77	7.3	(6.27,8.20)
C67	Bladder	191	4.3	5.5	0.82	7.0	(5.98,8.00)
C91-C94	Leukaemia	174	3.9	5.0	0.50	5.3	(4.54,6.16)
	Other & unspecified	165	3.7	4.7	0.66	5.7	(4.85,6.64)
C44	Other Skin	137	3.1	3.9	0.61	4.9	(4.06,5.74)
C64	Kidney	103	2.3	2.9	0.42	3.4	(2.76,4.12)
C25	Pancreas	101	2.3	2.9	0.37	3.6	(2.88,4.31)
C32	Larynx	99	2.2	2.8	0.48	3.7	(2.92,4.38)
C70-C72	Brain, Nervous system	95	2.1	2.7	0.25	2.9	(2.28,3.46)
C15	Oesophagus	68	1.5	1.9	0.32	2.5	(1.90,3.10)
C40-C41	Bone	52	1.2	1.5	0.17	1.6	(1.15,2.04)
C47;C49	Connective,Soft tissue	46	1.0	1.3	0.12	1.5	(1.04,1.91)
C01-C02	Tongue	38	0.9	1.1	0.17	1.3	(0.88,1.73)
C73	Thyroid	37	0.8	1.1	0.13	1.2	(0.78,1.55)
C03-C06	Mouth	33	0.7	0.9	0.14	1.2	(0.77,1.59)
C62	Testis	32	0.7	0.9	0.07	0.9	(0.60,1.25)
C23-C24	Gallbladder etc.	28	0.6	0.8	0.14	1.0	(0.63,1.38)
C37-C38	Other Thoracic organs	23	0.5	0.7	0.08	0.7	(0.42,1.02)
C12-C13	Hypopharynx	22	0.5	0.6	0.15	0.9	(0.49,1.21)
C90	Multiple Myeloma	21	0.5	0.6	0.13	0.8	(0.44,1.12)
C30-C31	Nose, sinuses etc.	18	0.4	0.5	0.06	0.6	(0.33,0.92)
C07-C08	Salivary glands	15	0.3	0.4	0.06	0.5	(0.22,0.71)
C17	Small intestine	14	0.3	0.4	0.05	0.5	(0.22,0.72)
C50	Breast	14	0.3	0.4	0.07	0.5	(0.22,0.74)
C09	Tonsil	12	0.3	0.3	0.05	0.4	(0.16,0.60)
C60	Penis	11	0.2	0.3	0.05	0.4	(0.17,0.68)
C43	Melanoma of Skin	9	0.2	0.3	0.03	0.3	(0.09,0.46)
C10	Other Oropharynx	8	0.2	0.2	0.04	0.3	(0.08,0.48)
C75	Other Endocrine	8	0.2	0.2	0.02	0.2	(0.07,0.38)
C65	Renal Pelvis	6	0.1	0.2	0.01	0.2	(0.04,0.40)
C66	Ureter	5	0.1	0.1	0.02	0.2	(0.03,0.39)
C74	Adrenal gland	5	0.1	0.1	0.01	0.2	(0.02,0.32)
C00	Lip	4	0.1	0.1	0.01	0.2	(0.00,0.33)
C14	Pharynx unspec.	4	0.1	0.1	0.01	0.1	(0.00,0.23)
C46	Kaposi sarcoma	3	0.1	0.1	0.01	0.1	(0.00,0.16)
C69	Eye	3	0.1	0.1	0.00	0.1	(0.00,0.25)
C63	Other male genital	2	0.0	0.1	0.01	0.1	(0.00,0.16)
C45	Mesothelioma	1	0.0	0.0	0.00	0.0	(0.00,0.08)
C68	Other Urinary organs	1	0.0	0.0	0.00	0.0	(0.00,0.07)



APPENDIX 8

INCIDENCE SUMMARY TABLE, ALL RESIDENTS, FEMALES, PENANG, 2004-2008

ICD-10	SITES	NO.	%	CR	CR74	ASR	(ASR 95% CL)
	All sites	5225	100.0	147.7	16.92	150.9	(146.78,155.06)
C50	Breast	1699	32.5	48.0	5.25	48.0	(45.67,50.29)
C18-C21	Large Bowel	652	12.5	18.4	2.27	19.2	(17.74,20.72)
C53	Cervix Uteri	418	8.0	11.8	1.36	11.8	(10.68,12.98)
C33-C34	Trachea,Bronchus,Lung	281	5.4	7.9	1.05	8.5	(7.46,9.46)
C56	Ovary	280	5.4	7.9	0.85	7.9	(6.95,8.82)
C54	Corpus Uteri	237	4.5	6.7	0.82	6.9	(6.02,7.80)
C16	Stomach	176	3.4	5.0	0.55	5.1	(4.33,5.86)
C91-C94	Leukaemia	161	3.1	4.6	0.41	4.8	(4.01,5.50)
C81-C85;C96	Lymphoma	144	2.8	4.0	0.48	4.1	(3.45,4.82)
	Other & unspecified	134	2.6	3.8	0.42	3.9	(3.22,4.55)
C22	Liver	121	2.3	3.4	0.44	3.7	(3.01,4.33)
C44	Other Skin	94	1.8	2.7	0.28	2.7	(2.19,3.31)
C73	Thyroid	94	1.8	2.7	0.26	2.6	(2.05,3.11)
C11	Nasopharynx	92	1.8	2.6	0.29	2.6	(2.08,3.16)
C25	Pancreas	76	1.5	2.1	0.25	2.3	(1.75,2.79)
C70-C72	Brain, Nervous system	73	1.4	2.1	0.21	2.1	(1.64,2.63)
C64	Kidney	63	1.2	1.8	0.23	1.9	(1.42,2.37)
C67	Bladder	57	1.1	1.6	0.20	1.7	(1.27,2.18)
C15	Oesophagus	42	0.8	1.2	0.16	1.3	(0.88,1.65)
C47;C49	Connective,Soft tissue	38	0.7	1.1	0.13	1.1	(0.76,1.49)
C23-C24	Gallbladder etc.	36	0.7	1.0	0.13	1.1	(0.74,1.48)
C40-C41	Bone	30	0.6	0.8	0.09	0.9	(0.56,1.20)
C90	Multiple Myeloma	24	0.5	0.7	0.12	0.8	(0.46,1.08)
C01-C02	Tongue	23	0.4	0.7	0.08	0.7	(0.39,0.94)
C03-C06	Mouth	23	0.4	0.7	0.09	0.7	(0.41,0.99)
C37-C38	Other Thoracic organs	19	0.4	0.5	0.06	0.6	(0.30,0.80)
C55	Uterus unspec.	17	0.3	0.5	0.07	0.5	(0.28,0.79)
C07-C08	Salivary glands	16	0.3	0.5	0.04	0.4	(0.22,0.66)
C43	Melanoma of Skin	14	0.3	0.4	0.05	0.4	(0.19,0.61)
C51	Vulva	11	0.2	0.3	0.05	0.3	(0.13,0.53)
C52	Vagina	11	0.2	0.3	0.03	0.3	(0.13,0.52)
C09	Tonsil	9	0.2	0.3	0.04	0.3	(0.09,0.45)
C17	Small intestine	9	0.2	0.3	0.03	0.2	(0.08,0.41)
C12-C13	Hypopharynx	7	0.1	0.2	0.02	0.2	(0.05,0.34)
C30-C31	Nose, sinuses etc.	7	0.1	0.2	0.02	0.2	(0.05,0.36)
C69	Eye	7	0.1	0.2	0.02	0.2	(0.06,0.40)
C32	Larynx	6	0.1	0.2	0.02	0.2	(0.03,0.32)
C66	Ureter	5	0.1	0.1	0.01	0.1	(0.02,0.28)
C00	Lip	3	0.1	0.1	0.01	0.1	(0.00,0.19)
C57	Other Female Genital	3	0.1	0.1	0.02	0.1	(0.00,0.21)
C58	Placenta	3	0.1	0.1	0.01	0.1	(0.00,0.16)
C74	Adrenal gland	3	0.1	0.1	0.00	0.1	(0.00,0.22)
C75	Other Endocrine	3	0.1	0.1	0.01	0.1	(0.00,0.20)
C10	Other Oropharynx	2	0.0	0.1	0.00	0.1	(0.00,0.13)
C65	Renal Pelvis	1	0.0	0.0	0.00	0.0	(0.00,0.07)
C68	Other Urinary organs	1	0.0	0.0	0.00	0.0	(0.00,0.08)

APPENDIX 9

INCIDENCE SUMMARY TABLE, ALL RESIDENTS, MALAY MALES, PENANG, 2004-2008

ICD-10	SITES	NO.	%	CR	CR74	ASR	(ASR 95% CL)
	All sites	1000	100.0	65.3	11.84	105.6	(98.64,112.61)
C33-C34	Trachea,Bronchus,Lung	174	17.4	11.4	2.45	20.6	(17.38,23.74)
C18-21	Large Bowel	132	13.2	8.6	1.83	15.4	(12.64,18.14)
C91-95	Leukaemia	83	8.3	5.3	0.51	6.2	(4.73,7.61)
C81-C85;C96	Lymphoma	75	7.5	4.9	0.64	6.4	(4.83,7.93)
C61	Prostate	62	6.2	4.1	1.04	8.8	(6.56,10.98)
C67	Bladder	58	5.8	3.8	0.79	7.2	(5.25,9.10)
C22	Liver	48	4.8	3.1	0.47	4.8	(3.33,6.21)
C70-C72	Brain, Nervous system	43	4.3	2.8	0.28	3.4	(2.31,4.49)
	Other & unspecified	38	3.8	2.5	0.51	4.0	(2.64,5.33)
C16	Stomach	36	3.6	2.4	0.42	4.1	(2.68,5.49)
C11	Nasopharynx	32	3.2	2.1	0.27	3.1	(1.92,4.19)
C47;C49	Connective,Soft tissue	21	2.1	1.4	0.15	1.7	(0.92,2.47)
C44	Other Skin	19	1.9	1.2	0.23	2.0	(1.06,3.00)
C62	Testis	18	1.8	1.2	0.14	1.2	(0.61,1.88)
C73	Thyroid	18	1.8	1.2	0.22	1.7	(0.85,2.52)
C32	Larynx	16	1.6	1.0	0.33	2.0	(1.02,3.08)
C64	Kidney	16	1.6	1.0	0.23	1.6	(0.78,2.47)
C15	Oesophagus	15	1.5	1.0	0.18	1.9	(0.90,2.82)
C25	Pancreas	14	1.4	0.9	0.17	1.4	(0.63,2.19)
C40-C41	Bone	12	1.2	0.8	0.09	0.9	(0.37,1.49)
C23-C24	Gallbladder etc.	9	0.9	0.6	0.14	1.1	(0.34,1.79)
C01-C02	Tongue	8	0.8	0.5	0.09	0.9	(0.24,1.50)
C37-C38	Other Thoracic organs	6	0.6	0.4	0.04	0.4	(0.05,0.80)
C90	Multiple Myeloma	6	0.6	0.4	0.12	0.7	(0.12,1.31)
C03-C06	Mouth	5	0.5	0.3	0.08	0.6	(0.07,1.16)
C30-C31	Nose, sinuses etc.	5	0.5	0.3	0.06	0.7	(0.09,1.36)
C07-C08	Salivary glands	4	0.4	0.3	0.06	0.4	(0.00,0.79)
C17	Small Intestine	4	0.4	0.3	0.06	0.4	(0.00,0.74)
C50	Breast	4	0.4	0.3	0.05	0.3	(0.00,0.72)
C12-C13	Hypopharynx	3	0.3	0.2	0.06	0.4	(0.00,0.95)
C75	Other Endocrine	3	0.3	0.2	0.02	0.2	(0.00,0.46)
C00	Lip	2	0.2	0.1	0.00	0.3	(0.00,0.73)
C10	Other Oropharynx	2	0.2	0.1	0.02	0.2	(0.00,0.46)
C43	Melanoma of Skin	2	0.2	0.1	0.01	0.1	(0.00,0.32)
C60	Penis	2	0.2	0.1	0.04	0.2	(0.00,0.56)
C74	Adrenal gland	2	0.2	0.1	0.01	0.2	(0.00,0.37)
C63	Other male genital	1	0.1	0.1	0.00	0.1	(0.00,0.16)
C65	Renal Pelvis	1	0.1	0.1	0.01	0.1	(0.00,0.24)
C68	Other Urinary organs	1	0.1	0.1	0.01	0.1	(0.00,0.20)

APPENDIX 10

INCIDENCE SUMMARY TABLE, ALL RESIDENTS, MALAY FEMALES, PENANG, 2004-2008

ICD-10	SITES	NO.	%	CR	CR74	ASR	(ASR 95% CL)
	All sites	1215	100.0	77.8	11.26	100.9	(95.07,106.82)
C50	Breast	392	32.3	25.1	3.17	31.0	(27.8,34.14)
C18-21	Large Bowel	118	9.7	7.5	1.43	10.8	(8.82,12.81)
C53	Cervix Uteri	89	7.3	5.7	0.83	7.4	(5.77,8.94)
C56	Ovary	87	7.2	5.6	0.69	6.8	(5.31,8.24)
C54	Corpus Uteri	65	5.3	4.2	0.67	5.8	(4.33,7.22)
C91-95	Leukaemia	58	4.8	3.7	0.33	4.0	(3.00,5.17)
C33-C34	Trachea,Bronchus,Lung	51	4.2	3.3	0.51	4.7	(3.36,5.99)
C81-C85;C96	Lymphoma	45	3.7	2.9	0.45	3.7	(2.61,4.89)
	Other & unspecified	35	2.9	2.2	0.35	3.1	(2.02,4.10)
C70-C72	Brain, Nervous system	26	2.1	1.7	0.19	1.9	(1.14,2.66)
C22	Liver	25	2.1	1.6	0.24	2.3	(1.38,3.21)
C73	Thyroid	25	2.1	1.6	0.22	1.8	(1.06,2.60)
C16	Stomach	22	1.8	1.4	0.25	2.0	(1.15,2.88)
C11	Nasopharynx	21	1.7	1.3	0.17	1.6	(0.91,2.35)
C44	Other Skin	18	1.5	1.2	0.17	1.5	(0.80,2.27)
C25	Pancreas	17	1.4	1.1	0.18	1.6	(0.81,2.33)
C47;C49	Connective,Soft tissue	16	1.3	1.0	0.13	1.2	(0.60,1.85)
C67	Bladder	15	1.2	1.0	0.25	1.6	(0.78,2.42)
C15	Oesophagus	11	0.9	0.7	0.19	1.2	(0.47,1.84)
C90	Multiple Myeloma	9	0.7	0.6	0.11	0.9	(0.29,1.42)
C64	Kidney	8	0.7	0.5	0.08	0.8	(0.22,1.30)
C40-C41	Bone	7	0.6	0.4	0.03	0.4	(0.11,0.78)
C01-C02	Tongue	5	0.4	0.3	0.07	0.5	(0.05,0.91)
C23-C24	Gallbladder etc.	5	0.4	0.3	0.08	0.5	(0.06,0.98)
C43	Melanoma of Skin	5	0.4	0.3	0.04	0.4	(0.03,0.76)
C07-C08	Salivary glands	4	0.3	0.3	0.05	0.3	(0.00,0.68)
C37-C38	Other Thoracic organs	4	0.3	0.3	0.03	0.3	(0.00,0.63)
C51	Vulva	4	0.3	0.3	0.05	0.4	(0.00,0.73)
C52	Vagina	3	0.2	0.2	0.02	0.2	(0.00,0.52)
C55	Uterus unspec.	3	0.2	0.2	0.05	0.3	(0.00,0.67)
C69	Eye	3	0.2	0.2	0.01	0.2	(0.00,0.45)
C74	Adrenal gland	3	0.2	0.2	0.01	0.2	(0.00,0.42)
C00	Lip	2	0.2	0.1	0.03	0.2	(0.00,0.42)
C09	Tonsil	2	0.2	0.1	0.03	0.2	(0.00,0.45)
C17	Small intestine	2	0.2	0.1	0.02	0.2	(0.00,0.52)
C30-C31	Nose, sinuses etc.	2	0.2	0.1	0.04	0.2	(0.00,0.55)
C57	Other Female Genital	2	0.2	0.1	0.04	0.2	(0.00,0.47)
C03-C06	Mouth	1	0.1	0.1	0.00	0.1	(0.00,0.30)
C10	Other Oropharynx	1	0.1	0.1	0.01	0.1	(0.00,0.22)
C12-C13	Hypopharynx	1	0.1	0.1	0.00	0.1	(0.00,0.30)
C58	Placenta	1	0.1	0.1	0.00	0.1	(0.00,0.15)
C65	Renal Pelvis	1	0.1	0.1	0.01	0.1	(0.00,0.19)
C68	Other Urinary organs	1	0.1	0.1	0.00	0.1	(0.00,0.30)

APPENDIX 11

INCIDENCE SUMMARY TABLE, ALL RESIDENTS, CHINESE MALES, PENANG, 2004-2008

ICD-10	SITES	NO.	%	CR	CR74	ASR	(ASR 95% CL)
	All sites	3103	100.0	194.8	21.59	185.1	(178.62,191.79)
C33-C34	Trachea,Bronchus,Lung	543	17.5	34.1	4.18	32.7	(29.9,35.44)
C18-C21	Large Bowel	522	16.8	32.7	3.68	31.1	(28.43,33.82)
C61	Prostate	285	9.2	17.9	2.12	18.2	(16.11,20.35)
C11	Nasopharynx	251	8.1	15.8	1.45	13.4	(11.75,15.10)
C22	Liver	203	6.5	12.7	1.42	11.8	(10.13,13.41)
C16	Stomach	172	5.5	10.8	1.20	10.4	(8.85,11.99)
C81-C85;C96	Lymphoma	127	4.1	8.0	0.82	7.5	(6.16,8.79)
C67	Bladder	113	3.6	7.1	0.81	6.8	(5.55,8.08)
	Other & unspecified	113	3.6	7.1	0.75	6.8	(5.50,8.03)
C44	Other Skin	105	3.4	6.6	0.79	6.4	(5.14,7.59)
C64	Kidney	81	2.6	5.1	0.53	4.7	(3.63,5.70)
C25	Pancreas	80	2.6	5.0	0.47	4.8	(3.73,5.85)
C91-95	Leukaemia	73	2.4	4.6	0.49	4.7	(3.61,5.85)
C32	Larynx	68	2.2	4.3	0.53	4.1	(3.16,5.14)
C70-C72	Brain, Nervous system	46	1.5	2.9	0.24	2.8	(1.95,3.60)
C15	Oesophagus	41	1.3	2.6	0.32	2.5	(1.71,3.24)
C40-C41	Bone	35	1.1	2.2	0.22	2.1	(1.38,2.78)
C47;C49	Connective,Soft tissue	22	0.7	1.4	0.11	1.3	(0.74,1.83)
C03-C06	Mouth	20	0.6	1.3	0.11	1.2	(0.64,1.66)
C01-C02	Tongue	18	0.6	1.1	0.13	1.1	(0.59,1.61)
C37-C38	Other Thoracic organs	17	0.5	1.1	0.10	1.0	(0.51,1.45)
C73	Thyroid	17	0.5	1.1	0.09	1.0	(0.52,1.49)
C23-C24	Gallbladder etc.	16	0.5	1.0	0.14	1.0	(0.49,1.44)
C30-C31	Nose, sinuses etc.	13	0.4	0.8	0.06	0.7	(0.33,1.13)
C90	Multiple Myeloma	13	0.4	0.8	0.13	0.8	(0.36,1.22)
C12-C13	Hypopharynx	12	0.4	0.8	0.11	0.7	(0.30,1.10)
C62	Testis	12	0.4	0.8	0.05	0.7	(0.29,1.13)
C07-C08	Salivary glands	11	0.4	0.7	0.06	0.6	(0.24,0.96)
C09	Tonsil	10	0.3	0.6	0.07	0.6	(0.21,0.90)
C17	Small intestine	9	0.3	0.6	0.05	0.5	(0.18,0.89)
C50	Breast	9	0.3	0.6	0.08	0.5	(0.18,0.89)
C60	Penis	7	0.2	0.4	0.06	0.4	(0.11,0.77)
C43	Melanoma of Skin	6	0.2	0.4	0.04	0.3	(0.06,0.60)
C10	Other Oropharynx	5	0.2	0.3	0.05	0.3	(0.04,0.58)
C65	Renal Pelvis	5	0.2	0.3	0.02	0.3	(0.04,0.59)
C66	Ureter	5	0.2	0.3	0.04	0.3	(0.04,0.61)
C75	Other Endocrine	4	0.1	0.3	0.02	0.2	(0.00,0.46)
C46	Kaposi sarcoma	3	0.1	0.2	0.01	0.2	(0.00,0.35)
C69	Eye	3	0.1	0.2	0.00	0.2	(0.00,0.52)
C74	Adrenal gland	3	0.1	0.2	0.02	0.2	(0.00,0.48)
C14	Pharynx unspec.	2	0.1	0.1	0.01	0.1	(0.00,0.23)
C00	Lip	1	0.0	0.1	0.00	0.1	(0.00,0.19)
C45	Mesothelioma	1	0.0	0.1	0.00	0.0	(0.00,0.14)
C63	Other male genital	1	0.0	0.1	0.01	0.1	(0.00,0.18)



APPENDIX 12

INCIDENCE SUMMARY TABLE, ALL RESIDENTS, CHINESE FEMALES, PENANG, 2004-2008

ICD-10	SITES	NO.	%	CR	CR74	ASR	(ASR 95% CL)
	All sites	3438	100.0	217.1	19.67	176.4	(170.47,182.42)
C50	Breast	1115	32.4	70.4	6.31	57.3	(53.96,60.74)
C18-C21	Large Bowel	493	14.3	31.1	2.81	24.2	(22.09,26.43)
C53	Cervix Uteri	284	8.3	17.9	1.63	14.5	(12.80,16.20)
C33-C34	Trachea,Bronchus,Lung	212	6.2	13.4	1.37	10.8	(9.32,12.26)
C56	Ovary	153	4.5	9.7	0.88	7.9	(6.66,9.19)
C16	Stomach	134	3.9	8.5	0.69	6.4	(5.31,7.51)
C54	Corpus Uteri	124	3.6	7.8	0.74	6.3	(5.22,7.47)
C81-C85;C96	Lymphoma	88	2.6	5.5	0.53	4.6	(3.68,5.65)
C91-95	Leukaemia	86	2.5	5.4	0.47	5.4	(4.17,6.55)
	Other & unspecified	83	2.4	5.2	0.43	4.2	(3.31,5.16)
C22	Liver	81	2.4	5.1	0.51	4.2	(3.23,5.08)
C44	Other Skin	72	2.1	4.5	0.36	3.5	(2.68,4.32)
C11	Nasopharynx	67	1.9	4.2	0.40	3.5	(2.68,4.38)
C73	Thyroid	59	1.7	3.7	0.30	3.2	(2.35,3.99)
C25	Pancreas	52	1.5	3.3	0.29	2.7	(1.93,3.40)
C64	Kidney	48	1.4	3.0	0.32	2.5	(1.80,3.24)
C70-C72	Brain, Nervous system	43	1.3	2.7	0.25	2.7	(1.87,3.57)
C67	Bladder	39	1.1	2.5	0.20	1.9	(1.29,2.50)
C23-C24	Gallbladder etc.	30	0.9	1.9	0.17	1.5	(0.92,1.99)
C40-C41	Bone	20	0.6	1.3	0.11	1.1	(0.59,1.54)
C47;C49	Connective,Soft tissue	20	0.6	1.3	0.13	1.1	(0.59,1.59)
C15	Oesophagus	17	0.5	1.1	0.09	0.8	(0.43,1.23)
C37-C38	Other Thoracic organs	14	0.4	0.9	0.08	0.7	(0.33,1.09)
C01-C02	Tongue	13	0.4	0.8	0.07	0.6	(0.29,1.00)
C90	Multiple Myeloma	13	0.4	0.8	0.11	0.7	(0.32,1.10)
C07-C08	Salivary glands	11	0.3	0.7	0.05	0.5	(0.22,0.87)
C55	Uterus unspec.	10	0.3	0.6	0.08	0.5	(0.20,0.87)
C03-C06	Mouth	7	0.2	0.4	0.04	0.3	(0.08,0.58)
C43	Melanoma of Skin	7	0.2	0.4	0.05	0.4	(0.09,0.62)
C17	Small intestine	6	0.2	0.4	0.03	0.3	(0.06,0.51)
C52	Vagina	6	0.2	0.4	0.02	0.3	(0.05,0.50)
C51	Vulva	5	0.1	0.3	0.04	0.2	(0.03,0.47)
C66	Ureter	5	0.1	0.3	0.02	0.2	(0.02,0.45)
C30-C31	Nose, sinuses etc.	4	0.1	0.3	0.02	0.2	(0.00,0.36)
C09	Tonsil	3	0.1	0.2	0.03	0.2	(0.00,0.35)
C32	Larynx	3	0.1	0.2	0.00	0.1	(0.00,0.27)
C69	Eye	3	0.1	0.2	0.02	0.2	(0.00,0.51)
C75	Other Endocrine	3	0.1	0.2	0.02	0.2	(0.00,0.35)
C58	Placenta	2	0.1	0.1	0.01	0.1	(0.00,0.28)
C00	Lip	1	0.0	0.1	0.00	0.0	(0.00,0.11)
C12-C13	Hypopharynx	1	0.0	0.1	0.01	0.1	(0.00,0.16)
C57	Other Female Genital	1	0.0	0.1	0.01	0.1	(0.00,0.18)

APPENDIX 13

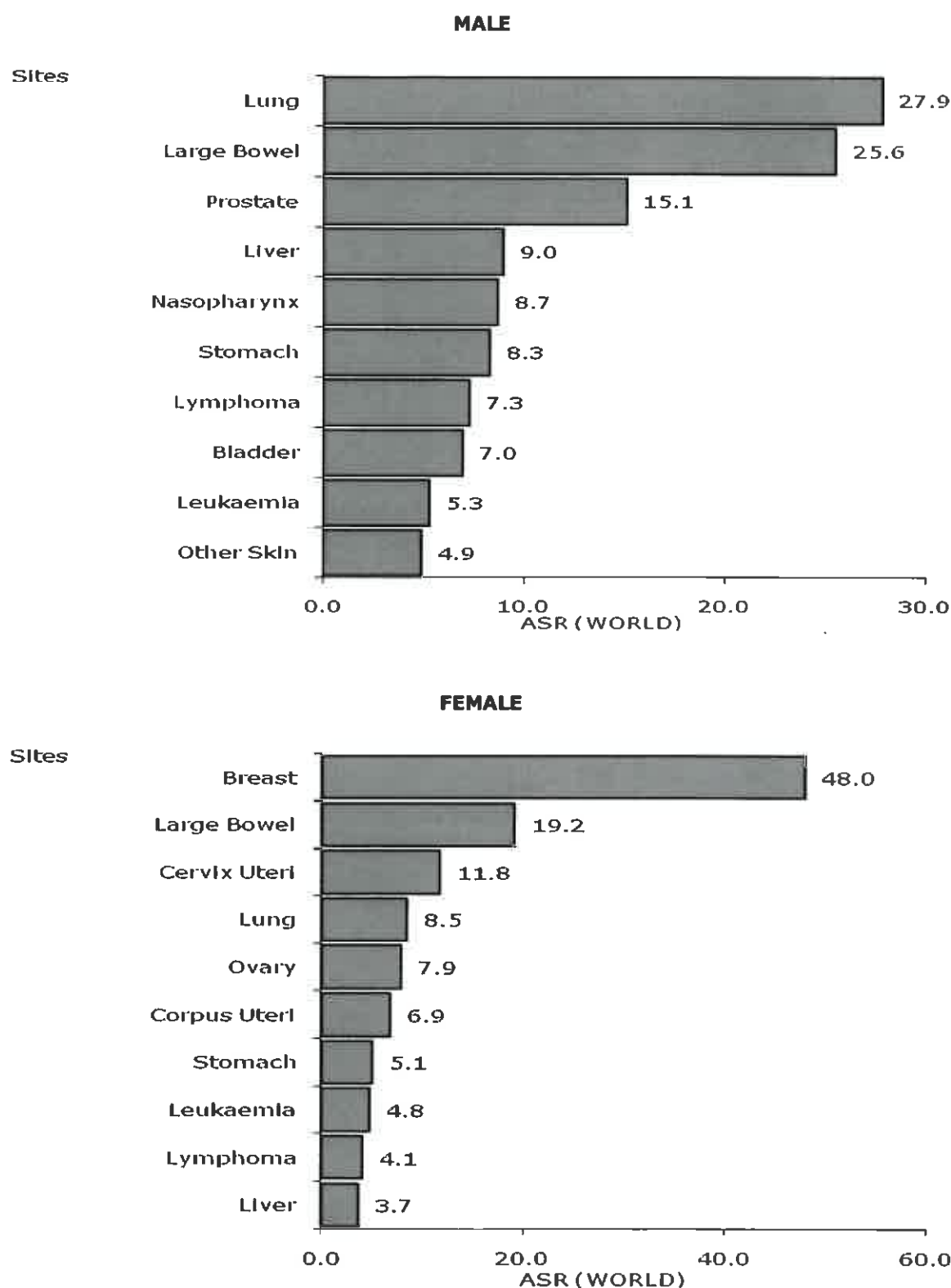
INCIDENCE SUMMARY TABLE, ALL RESIDENTS, INDIAN MALES, PENANG, 2004-2008

ICD-10	SITES	NO.	%	CR	CR74	ASR	(ASR 95% CL)
	All sites	330	100.0	90.7	15.55	130.6	(115.74,145.62)
C18-C21	Large Bowel	51	15.5	14.0	2.45	20.7	(14.69,26.68)
C33-C34	Trachea,Bronchus,Lung	44	13.3	12.1	1.79	17.8	(12.24,23.28)
C61	Prostate	26	7.9	7.1	1.29	12.7	(7.66,17.66)
C81-C85;C96	Lymphoma	20	6.1	5.4	0.62	5.9	(3.22,8.71)
C16	Stomach	19	5.8	5.2	0.99	7.5	(3.96,11.09)
C67	Bladder	19	5.8	5.2	0.86	8.1	(4.30,11.94)
C91-C95	Leukaemia	18	5.5	4.9	0.43	5.1	(2.66,7.56)
C32	Larynx	15	4.5	4.1	0.55	5.8	(2.65,8.88)
C01-C02	Tongue	12	3.6	3.3	0.75	4.6	(1.81,7.36)
	Other & unspecified	12	3.6	3.3	0.47	4.7	(1.89,7.51)
C15	Oesophagus	11	3.3	3.0	0.74	4.8	(1.88,7.70)
C22	Liver	11	3.3	3.0	0.52	4.3	(1.65,7.02)
C03-C06	Mouth	8	2.4	2.2	0.53	3.7	(1.08,6.34)
C44	Other Skin	8	2.4	2.2	0.33	2.5	(0.62,4.31)
C12-C13	Hypopharynx	7	2.1	1.9	0.92	3.9	(1.00,6.79)
C25	Pancreas	6	1.8	1.6	0.34	2.2	(0.33,4.02)
C11	Nasopharynx	5	1.5	1.4	0.45	2.5	(0.22,4.77)
C40-C41	Bone	5	1.5	1.4	0.20	2.1	(0.16,3.98)
C64	Kidney	5	1.5	1.4	0.35	1.9	(0.09,3.67)
C70-C72	Brain, Nervous system	5	1.5	1.4	0.11	1.3	(0.15,2.37)
C23-C24	Gallbladder etc.	3	0.9	0.8	0.10	1.3	(0.00,2.90)
C09	Tonsil	2	0.6	0.5	0.04	0.5	(0.00,1.11)
C14	Pharynx unspec.	2	0.6	0.5	0.08	0.7	(0.00,1.78)
C47;C49	Connective,Soft tissue	2	0.6	0.5	0.01	0.8	(0.00,2.07)
C60	Penis	2	0.6	0.5	0.08	1.1	(0.00,2.56)
C62	Testis	2	0.6	0.5	0.03	0.5	(0.00,1.16)
C73	Thyroid	2	0.6	0.5	0.10	0.8	(0.00,1.86)
C90	Multiple Myeloma	2	0.6	0.5	0.16	0.9	(0.00,2.26)
C00	Lip	1	0.3	0.3	0.14	0.6	(0.00,1.69)
C10	Other Oropharynx	1	0.3	0.3	0.02	0.2	(0.00,0.61)
C17	Small intestine	1	0.3	0.3	0.04	0.3	(0.00,0.88)
C43	Melanoma of Skin	1	0.3	0.3	0.00	0.6	(0.00,1.69)
C50	Breast	1	0.3	0.3	0.03	0.3	(0.00,0.76)
C75	Other Endocrine	1	0.3	0.3	0.02	0.2	(0.00,0.66)

APPENDIX 14

INCIDENCE SUMMARY TABLE, ALL RESIDENTS, INDIAN FEMALES, PENANG, 2004-2008

ICD-10	SITES	NO.	%	CR	CR74	ASR	(ASR 95% CL)
	All sites	534	100.0	142.5	19.19	164.4	(149.94,178.99)
C50	Breast	182	34.1	48.6	5.98	52.5	(44.55,60.49)
C54	Corpus Uteri	46	8.6	12.3	1.81	14.3	(10.05,18.66)
C53	Cervix Uteri	39	7.3	10.4	1.66	12.6	(8.50,16.70)
C56	Ovary	39	7.3	10.4	1.09	10.4	(7.01,13.72)
C18-C21	Large Bowel	37	6.9	9.9	1.51	11.8	(7.83,15.72)
C16	Stomach	19	3.6	5.1	0.66	7.0	(3.78,10.26)
C91-C95	Leukaemia	17	3.2	4.5	0.44	4.7	(2.42,7.04)
C33-C34	Trachea,Bronchus,Lung	16	3.0	4.3	0.63	5.4	(2.66,8.12)
C03-C06	Mouth	14	2.6	3.7	0.66	5.6	(2.61,8.52)
C15	Oesophagus	14	2.6	3.7	0.55	4.9	(2.25,7.55)
	Other & unspecified	14	2.6	3.7	0.59	4.3	(1.93,6.58)
C22	Liver	13	2.4	3.5	0.55	4.7	(2.09,7.41)
C81-C85;C96	Lymphoma	10	1.9	2.6	0.29	2.7	(0.97,4.40)
C73	Thyroid	8	1.5	2.1	0.26	2.3	(0.65,3.88)
C64	Kidney	7	1.3	1.9	0.17	1.8	(0.46,3.07)
C25	Pancreas	6	1.1	1.6	0.18	2.0	(0.34,3.61)
C01-C02	Tongue	5	0.9	1.3	0.26	2.0	(0.22,3.69)
C12-C13	Hypopharynx	5	0.9	1.3	0.10	1.4	(0.13,2.74)
C09	Tonsil	4	0.7	1.1	0.17	1.1	(0.00,2.33)
C11	Nasopharynx	4	0.7	1.1	0.14	1.3	(0.00,2.65)
C55	Uterus unspec.	4	0.7	1.1	0.13	1.5	(0.01,3.01)
C70-C72	Brain, Nervous system	4	0.7	1.1	0.08	1.0	(0.02,2.01)
C32	Larynx	3	0.6	0.8	0.19	1.1	(0.00,2.39)
C40-C41	Bone	3	0.6	0.8	0.14	1.0	(0.00,2.17)
C44	Other Skin	3	0.6	0.8	0.18	1.1	(0.00,2.33)
C67	Bladder	3	0.6	0.8	0.09	0.9	(0.00,1.90)
C43	Melanoma of Skin	2	0.4	0.5	0.05	0.8	(0.00,2.02)
C47;C49	Connective,Soft tissue	2	0.4	0.5	0.04	0.5	(0.00,1.19)
C51	Vulva	2	0.4	0.5	0.14	0.7	(0.00,1.73)
C52	Vagina	2	0.4	0.5	0.09	0.6	(0.00,1.56)
C90	Multiple Myeloma	2	0.4	0.5	0.22	0.9	(0.00,2.12)
C07-C08	Salivary glands	1	0.2	0.3	0.02	0.2	(0.00,0.72)
C10	Other Oropharynx	1	0.2	0.3	0.02	0.2	(0.00,0.69)
C23-C24	Gallbladder etc.	1	0.2	0.3	0.07	0.4	(0.00,1.18)
C37-C38	Other Thoracic organs	1	0.2	0.3	0.02	0.2	(0.00,0.58)
C69	Eye	1	0.2	0.3	0.00	0.4	(0.00,1.32)

**APPENDIX 15****TEN MOST COMMON CANCER (ASR) BY SEX, PENANG 2004-2008**



APPENDIX 16

QUALITY INDICATOR

ICD-10	SITES	TOTAL	MV	%
C00	Lip	7	7	100.0
C01-C02	Tongue	61	56	91.8
C03-C06	Mouth	56	56	100.0
C07-C08	Salivary glands	31	31	100.0
C09	Tonsil	21	21	100.0
C10	Other Oropharynx	10	7	70.0
C11	Nasopharynx	381	368	96.6
C12-C13	Hypopharynx	29	27	93.1
C14	Pharynx unspec.	4	4	100.0
C15	Oesophagus	110	107	97.3
C16	Stomach	404	385	95.3
C17	Small Intestine	23	22	95.7
C18-C21	Large Bowel	1363	1311	96.2
C22	Liver	384	261	68.0
C23-C24	Gallbladder etc.	64	60	93.8
C25	Pancreas	177	144	81.4
C30-C31	Nose, sinuses etc.	25	25	100.0
C32	Larynx	105	99	94.3
C33-C34	Trachea, Bronchus, Lung	1048	923	88.1
C37-C38	Other Thoracic organs	42	42	100.0
C40-C41	Bone	82	75	91.5
C43	Melanoma of Skin	23	22	95.7
C44	Other Skin	231	228	98.7
C45	Mesothelioma	1	1	100.0
C46	Kaposi sarcoma	3	2	66.7
C47;C49	Connective, Soft tissue	84	77	91.7
C50	Breast	1713	1683	98.2
C51	Vulva	11	11	100.0
C52	Vagina	11	11	100.0
C53	Cervix Uteri	418	411	98.3
C54	Corpus Uteri	237	232	97.9
C55	Uterus unspec.	17	16	94.1
C56	Ovary	280	272	97.1
C57	Other Female Genital	3	3	100.0
C58	Placenta	3	3	100.0
C60	Penis	11	9	81.8
C61	Prostate	376	371	98.7
C62	Testis	32	32	100.0
C63	Other male genital	2	2	100.0
C64	Kidney	166	161	97.0
C65	Renal Pelvis	7	7	100.0
C66	Ureter	10	10	100.0
C67	Bladder	248	232	93.5
C68	Other Urinary organs	2	2	100.0
C69	Eye	10	9	90.0
C70-C72	Brain, Nervous system	168	130	77.4
C73	Thyroid	131	129	98.5
C74	Adrenal gland	8	7	87.5
C75	Other Endocrine	11	8	72.7
C81-C85;C96	Lymphoma	369	361	97.8
C88	Immunoproliferative dis.	0	0	0.0
C90	Multiple Myeloma	45	38	84.4
C91-C95	Leukaemia	335	334	99.7
	Other & unspecified	299	262	87.6
TOTAL		9692	9107	94.0

APPENDIX 17

STAGE

ICD-10	Site	Sex	TOTAL	NUMBER WITH RECORDED STAGE	STAGE							
					I	%	II	%	III	%	IV	%
C00	LIP	M	4	1	0	0.0	1	100.0	0	0.0	0	0.0
		F	3	1	1	100.0	0	0.0	0	0.0	0	0.0
C01-C02	TONGUE	M	38	19	3	15.8	3	15.8	6	31.6	7	36.8
		F	23	14	6	42.9	2	14.3	4	28.6	2	14.3
C03-C06	MOUTH	M	33	15	0	0.0	3	20.0	4	26.7	8	53.3
		F	23	12	0	0.0	2	16.7	3	25.0	7	58.3
C07-C08	SALIVARY GLANDS	M	15	4	2	50.0	1	25.0	0	0.0	1	25.0
		F	16	9	3	33.3	2	22.2	3	33.3	1	11.1
C09	TONSIL	M	12	6	1	16.7	1	16.7	2	33.3	2	33.3
		F	9	6	0	0.0	0	0.0	3	50.0	3	50.0
C10	OTHER OROPHARYNX	M	8	3	0	0.0	0	0.0	3	100.0	0	0.0
		F	2	2	0	0.0	1	50.0	0	0.0	1	50.0
C11	NASOPHARYNX	M	289	182	17	9.3	52	28.6	66	36.3	47	25.8
		F	92	55	7	12.7	14	25.5	23	41.8	11	20.0
C12-C13	HYPOPHARYNX	M	22	7	1	14.3	1	14.3	2	28.6	3	42.9
		F	7	3	1	33.3	0	0.0	0	0.0	2	66.7
C14	PHARYNX UNSPEC.	M	4	1	0	0.0	0	0.0	1	100.0	0	0.0
C15	ESOPHAGUS	M	68	18	3	16.7	5	27.8	2	11.1	8	44.4
		F	42	21	3	14.3	7	33.3	3	14.3	8	38.1
C16	STOMACH	M	228	105	10	9.5	16	15.2	34	32.4	45	42.9
		F	176	77	13	16.9	11	14.3	24	31.2	29	37.7
C17	SMALL INTESTINE	M	14	4	0	0.0	1	25.0	0	0.0	3	75.0
		F	9	4	0	0.0	2	50.0	1	25.0	1	25.0
C18-C21	LARGE BOWEL	M	711	329	40	12.2	107	32.5	84	25.5	98	29.8
		F	652	313	38	12.1	89	28.4	95	30.4	91	29.1
C22	LIVER	M	263	119	18	15.1	18	15.1	21	17.6	62	52.1
		F	121	50	5	10.0	4	8.0	12	24.0	29	58.0
C23-C24	GALLBLADDER ETC.	M	28	9	3	33.3	0	0.0	1	11.1	5	55.6
		F	36	20	2	10.0	5	25.0	2	10.0	11	55.0
C25	PANCREAS	M	101	51	4	7.8	7	13.7	9	17.6	31	60.8
		F	76	36	1	2.8	6	16.7	7	19.4	22	61.1
C30-C31	NOSE, SINUSES ETC.	M	18	7	0	0.0	4	57.1	1	14.3	2	28.6
		F	7	5	1	20.0	0	0.0	1	20.0	3	60.0
C32	LARYNX	M	99	50	15	30.0	8	16.0	13	26.0	14	28.0
		F	6	3	1	33.3	1	33.3	0	0.0	1	33.3
C33-C34	TRACHEA, BRONCHUS, LUNG	M	767	431	26	6.0	22	5.1	167	38.7	216	50.1
		F	281	162	6	3.7	16	9.9	47	29.0	93	57.4
C37-C38	OTHER THORACIC ORGANS	M	23	8	1	12.5	2	25.0	2	25.0	3	37.5
		F	19	5	1	20.0	0	0.0	2	40.0	2	40.0
C40-C41	BONE	M	52	22	5	22.7	3	13.6	1	4.5	13	59.1
		F	30	16	4	25.0	2	12.5	1	6.3	9	56.3
C43	MELANOMA OF SKIN	M	9	5	1	20.0	0	0.0	1	20.0	3	60.0
		F	14	4	0	0.0	1	25.0	2	50.0	1	25.0
C44	OTHER SKIN	M	137	34	25	73.5	4	11.8	3	8.8	2	5.9
		F	94	24	19	79.2	2	8.3	1	4.2	2	8.3
C45	MESOTHELIOMA	M	1	0	0	0.0	0	0.0	0	0.0	0	0.0
C46	KAPOSI SARCOMA	M	3	1	0	0.0	0	0.0	0	0.0	1	100.0
C47-C49	CONNECTIVE, SOFT TISSUE	M	46	10	7	70.0	0	0.0	2	20.0	1	10.0
		F	38	14	4	28.6	2	14.3	4	28.6	4	28.6
C50	BREAST	M	14	9	2	22.2	2	22.2	5	55.6	0	0.0
		F	1699	1091	256	23.5	503	46.1	189	17.3	143	13.1
C51	VULVA	F	11	6	1	16.7	1	16.7	0	0.0	4	66.7
C52	VAGINA	F	11	7	1	14.3	1	14.3	2	28.6	3	42.9
C53	CERVIX UTERI	F	418	297	87	29.3	90	30.3	78	26.3	42	14.1
C54	CORPUS UTERI	F	237	156	84	53.8	33	21.2	22	14.1	17	10.9
C55	UTERUS UNSPEC.	F	17	10	2	20.0	0	0.0	3	30.0	5	50.0
C56	OVARY	F	280	167	56	33.5	19	11.4	49	29.3	43	25.7
C57	OTHER FEMALE GENITAL	F	3	3	1	33.3	0	0.0	1	33.3	1	33.3
C58	PLACENTA	F	3	1	0	0.0	0	0.0	0	0.0	1	100.0
C59	PENIS	M	11	4	1	25.0	1	25.0	1	25.0	1	25.0
C61	PROSTATE	M	376	232	25	10.8	93	40.1	44	19.0	70	30.2
C62	TESTIS	M	32	13	6	46.2	4	30.8	0	0.0	3	23.1
C63	OTHER MALE GENITAL	M	2	1	0	0.0	0	0.0	1	100.0	0	0.0
C64	KIDNEY	M	103	64	14	21.9	18	28.1	11	17.2	21	32.8
		F	63	39	9	23.1	17	43.6	8	20.5	5	12.8
C65	RENAL PELVIS	M	6	5	2	40.0	3	60.0	0	0.0	0	0.0
		F	1	0	0	0.0	0	0.0	0	0.0	0	0.0
C66	URETER	M	3	2	1	50.0	1	50.0	0	0.0	0	0.0
		F	5	2	0	0.0	0	0.0	1	50.0	1	50.0
C67	BLADDER	M	191	96	45	46.9	22	22.9	19	19.8	10	10.4
		F	57	23	6	26.1	7	30.4	5	21.7	5	21.7
C68	OTHER URINARY ORGANS	M	1	0	0	0.0	0	0.0	0	0.0	0	0.0
		F	1	1	0	0.0	0	0.0	0	0.0	1	100.0
C69	EYE	M	3	1	1	100.0	0	0.0	0	0.0	0	0.0
		F	7	0	0	0.0	0	0.0	0	0.0	0	0.0
C70-C72	BRAIN, NERVOUS SYSTEM	M	95	23	8	34.8	4	17.4	0	0.0	11	47.8
		F	73	16	6	37.5	4	25.0	1	6.3	5	31.3
C73	THYROID	M	37	11	2	18.2	2	18.2	3	27.3	4	36.4
		F	94	44	25	56.8	7	15.9	5	11.4	7	15.9
C74	ADRENAL GLAND	M	5	1	0	0.0	0	0.0	0	0.0	1	100.0
		F	3	0	0	0.0	0	0.0	0	0.0	0	0.0
C75	OTHER ENDOCRINE	M	8	2	0	0.0	0	0.0	1	50.0	1	50.0
		F	3	1	0	0.0	0	0.0	0	0.0	1	100.0
C81-C85;C86	LYMPHOMA	M	225	115	17	11.3	35	30.4	22	19.1	45	39.1
		F	144	74	20	27.0	22	29.7	9	12.2	23	31.1
C90	MULTIPLE MYELOMA	M	21	3	0	0.0	2	66.7	0	0.0	1	33.3
		F	24	5	2	40.0	1	20.0	0	0.0	2	40.0
C91-C95	LEUKAEMIA	M	174	-	-	-	-	-	-	-	-	-
		F	161	-	-	-	-	-	-	-	-	-
	OTHERS	M	165	66	10	15.2	9	13.6	14	21.2	33	50.0
		F	134	55	12	21.6	9	16.4	13	23.6	21	38.2
All Sites			9692	4943	996	20.1	1338	27.1	1170	23.7	1439	29.1



APPENDIX 18

MORPHOLOGICALLY VERIFIED CASES BY HISTOLOGY TYPES, PENANG, 2004-2008

ICD10	HISTOLOGY	NO	%
C00	LIP		
	8070 Squamous cell carcinoma, NOS	3	42.9
	8010 Carcinoma, NOS	1	14.3
	8200 Adenoid cystic carcinoma	1	14.3
	8140 Adenocarcinoma, NOS	1	14.3
	8070 Squamous cell carcinoma, NOS	1	14.3
		7	100.0
C01-C02	TONGUE		
	8430 Mucoepidermoid carcinoma	2	3.6
	8071 Squamous cell carcinoma, keratinizing, N	2	3.6
	8070 Squamous cell carcinoma, NOS	47	83.9
	8051 Verrucous carcinoma, NOS	2	3.6
	8010 Carcinoma, NOS	2	3.6
	8000 Neoplasm, malignant	1	1.8
		56	100.0
C03-C06	MOUTH		
	8480 Mucinous adenocarcinoma	1	1.8
	8430 Mucoepidermoid carcinoma	2	3.6
	8200 Adenoid cystic carcinoma	2	3.6
	8140 Adenocarcinoma, NOS	1	1.8
	8071 Squamous cell carcinoma, keratinizing, N	2	3.6
	8070 Squamous cell carcinoma, NOS	37	66.1
	8020 Carcinoma, undifferentiated, NOS	1	1.8
	8011 Epithelioma, malignant	1	1.8
	8010 Carcinoma, NOS	8	14.3
	8000 Neoplasm, malignant	1	1.8
		56	100.0
C07-C08	SALIVARY GLANDS		
	8982 Malignant myoepithelioma	1	3.2
	8940 Mixed tumor, malignant, NOS	2	6.5
	8550 Acinar cell carcinoma	2	6.5
	8430 Mucoepidermoid carcinoma	5	16.1
	8200 Adenoid cystic carcinoma	5	16.1
	8140 Adenocarcinoma, NOS	2	6.5
	8070 Squamous cell carcinoma, NOS	5	16.1
	8020 Carcinoma, undifferentiated, NOS	1	3.2
	8010 Carcinoma, NOS	4	12.9
	8000 Neoplasm, malignant	4	12.9
		31	100.0
C09	TONSIL		
	8072 Squamous cell carcinoma, large cell, nonkeratin	1	4.8
	8070 Squamous cell carcinoma, NOS	13	61.9
	8051 Verrucous carcinoma, NOS	1	4.8
	8010 Carcinoma, NOS	3	14.3
	8000 Neoplasm, malignant	3	14.3
		21	100.0
C10	OTHER OROPHARYNX		
	8070 Squamous cell carcinoma, NOS	4	57.1
	8010 Carcinoma, NOS	2	28.6
	8000 Neoplasm, malignant	1	14.3
		7	100.0
C11	NASOPHARYNX		
	8900 Rhabdomyosarcoma, NOS	1	0.3
	8430 Mucoepidermoid carcinoma	1	0.3

ICD10	HISTOLOGY	NO	%
	8140 Adenocarcinoma, NOS	2	0.5
	8121 Schneiderian carcinoma	1	0.3
	8082 Lymphoepithelial carcinoma	3	0.8
	8075 Squamous cell carcinoma, adenoid	1	0.3
	8073 Squamous cell carc.small cell,nonkeratin	1	0.3
	8072 Squamous cell carc.large cell,nonkeratin	28	7.6
	8071 Squamous cell carcinoma, keratinizing, N	3	0.8
	8070 Squamous cell carcinoma, NOS	50	13.6
	8020 Carcinoma, undifferentiated, NOS	180	48.9
	8010 Carcinoma, NOS	77	20.9
	8000 Neoplasm, malignant	20	5.4
		368	100.0
C12-C13	HYPOPHARYNX		
	8140 Adenocarcinoma, NOS	1	3.7
	8071 Squamous cell carcinoma, keratinizing, N	1	3.7
	8070 Squamous cell carcinoma, NOS	18	66.7
	8020 Carcinoma, undifferentiated, NOS	1	3.7
	8010 Carcinoma, NOS	6	22.2
		27	100.0
C14	PHARYNX UNSPEC.		
	8140 Adenocarcinoma, NOS	1	25.0
	8070 Squamous cell carcinoma, NOS	2	50.0
	8000 Neoplasm, malignant	1	25.0
		4	100.0
C15	OESOPHAGUS		
	8490 Signet ring cell carcinoma	1	0.9
	8480 Mucinous adenocarcinoma	1	0.9
	8144 Adenocarcinoma, Intestinal type	1	0.9
	8140 Adenocarcinoma, NOS	23	21.5
	8070 Squamous cell carcinoma, NOS	51	47.7
	8010 Carcinoma, NOS	26	24.3
	8000 Neoplasm, malignant	4	3.7
		107	100.0
C16	STOMACH		
	8936 Gastrointestinal stromal sarcoma	9	2.3
	8890 Leiomyosarcoma, NOS	4	1.0
	8810 Fibrosarcoma, NOS	1	0.3
	8800 Sarcoma, NOS	1	0.3
	8490 Signet ring cell carcinoma	32	8.3
	8481 Mucin-producing adenocarcinoma	1	0.3
	8480 Mucinous adenocarcinoma	6	1.6
	8263 Adenocarcinoma in tubulovillous adenoma	1	0.3
	8260 Papillary adenocarcinoma, NOS	1	0.3
	8240 Carcinoid tumor, NOS	1	0.3
	8145 Carcinoma, diffuse type	3	0.8
	8144 Adenocarcinoma, Intestinal type	16	4.2
	8140 Adenocarcinoma, NOS	227	59.0
	8070 Squamous cell carcinoma, NOS	7	1.8
	8020 Carcinoma, undifferentiated, NOS	1	0.3
	8010 Carcinoma, NOS	60	15.6
	8000 Neoplasm, malignant	14	3.6
		385	100.0
C17	SMALL INTESTINE		
	8936 Gastrointestinal stromal sarcoma	7	31.8
	8800 Sarcoma, NOS	1	4.5
	8260 Papillary adenocarcinoma, NOS	1	4.5
	8210 Adenocarcinoma in adenomatous polyp	1	4.5
	8140 Adenocarcinoma, NOS	9	40.9

ICD10	HISTOLOGY	NO	%
	8010 Carcinoma, NOS	2	9.1
	8000 Neoplasm, malignant	1	4.5
		22	100.0
C18-C21	LARGE BOWEL		
	8936 Gastrointestinal stromal sarcoma	2	0.2
	8800 Sarcoma, NOS	1	0.1
	8560 Adenosquamous carcinoma	1	0.1
	8490 Signet ring cell carcinoma	11	0.8
	8481 Mucin-producing adenocarcinoma	2	0.2
	8480 Mucinous adenocarcinoma	35	2.7
	8263 Adenocarcinoma in tubulovillous adenoma	4	0.3
	8262 Villous adenocarcinoma	1	0.1
	8260 Papillary adenocarcinoma, NOS	20	1.5
	8246 Neuroendocrine carcinoma, NOS	1	0.1
	8245 Adenocarcinoid tumor	1	0.1
	8240 Carcinoid tumor, NOS	11	0.8
	8220 Adenocarcinoma in adenomatous polyposis	1	0.1
	8211 Tubular adenocarcinoma	1	0.1
	8210 Adenocarcinoma in adenomatous polyp	3	0.2
	8140 Adenocarcinoma, NOS	992	75.7
	8084 Squamous cell carcinoma, clear cell type	3	0.2
	8070 Squamous cell carcinoma, NOS	4	0.3
	8070 Squamous cell carcinoma, NOS	181	13.8
	8000 Neoplasm, malignant	36	2.7
		1311	100.0
C22	LIVER		
	8970 Hepatoblastoma	6	2.3
	8890 Leiomyosarcoma, NOS	2	0.8
	8805 Undifferentiated sarcoma	1	0.4
	8800 Sarcoma, NOS	1	0.4
	8180 Combined hepatocellular carcinoma/cholangiocarcinoma	4	1.5
	8170 Hepatocellular carcinoma, NOS	161	61.7
	8162 Klatskin tumor	2	0.8
	8160 Cholangiocarcinoma	29	11.1
	8140 Adenocarcinoma, NOS	19	7.3
	8071 Squamous cell carcinoma, keratinizing, N	1	0.4
	8070 Squamous cell carcinoma, NOS	4	1.5
	8010 Carcinoma, NOS	24	9.2
	8004 Malignant tumor, spindle cell type	1	0.4
	8000 Neoplasm, malignant	6	2.3
		261	100.0
C23-C24	GALLBLADDER ETC.		
	8480 Mucinous adenocarcinoma	2	3.3
	8260 Papillary adenocarcinoma, NOS	4	6.7
	8160 Cholangiocarcinoma	9	15.0
	8140 Adenocarcinoma, NOS	28	46.7
	8010 Carcinoma, NOS	16	26.7
	8000 Neoplasm, malignant	1	1.7
		60	100.0
C25	PANCREAS		
	9064 Germinoma	1	0.7
	8971 Pancreatoblastoma	2	1.4
	8500 Infiltrating duct carcinoma, NOS	1	0.7
	8480 Mucinous adenocarcinoma	2	1.4
	8452 Solid pseudopapillary carcinoma	1	0.7
	8246 Neuroendocrine carcinoma, NOS	2	1.4
	8200 Adenoid cystic carcinoma	3	2.1
	8154 Mixed Islet cell and exocrine adenocarcinoma	2	1.4



ICD10	HISTOLOGY	NO	%
	8140 Adenocarcinoma, NOS	56	38.9
	8020 Carcinoma, undifferentiated, NOS	1	0.7
	8010 Carcinoma, NOS	67	46.5
	8000 Neoplasm, malignant	6	4.2
	144	100.0	
C30-C31	NOSE, SINUSES ETC.		
	8430 Mucoepidermoid carcinoma	1	4.0
	8200 Adenoid cystic carcinoma	1	4.0
	8140 Adenocarcinoma, NOS	3	12.0
	8121 Schneiderian carcinoma	1	4.0
	8070 Squamous cell carcinoma, NOS	12	48.0
	8020 Carcinoma, undifferentiated, NOS	5	20.0
	8010 Carcinoma, NOS	2	8.0
	25	100.0	
C32	LARYNX		
	8800 Sarcoma, NOS	1	1.0
	8140 Adenocarcinoma, NOS	1	1.0
	8071 Squamous cell carcinoma, keratinizing, N	3	3.0
	8070 Squamous cell carcinoma, NOS	78	78.8
	8050 Papillary carcinoma, NOS	1	1.0
	8010 Carcinoma, NOS	13	13.1
	8000 Neoplasm, malignant	2	2.0
	99	100.0	
C33-C34	TRACHEA, BRONCHUS, LUNG		
	8890 Leiomyosarcoma, NOS	1	0.1
	8850 Liposarcoma, NOS	1	0.1
	8810 Fibrosarcoma, NOS	1	0.1
	8805 Undifferentiated sarcoma	1	0.1
	8800 Sarcoma, NOS	1	0.1
	8574 Adenocarcinoma, neuroendocrine different	1	0.1
	8480 Mucinous adenocarcinoma	2	0.2
	8260 Papillary adenocarcinoma, NOS	7	0.8
	8251 Alveolar adenocarcinoma	1	0.1
	8250 Bronchiolo-alveolar adenocarcinoma, NOS	20	2.2
	8246 Neuroendocrine carcinoma, NOS	5	0.5
	8240 Carcinoid tumor, NOS	2	0.2
	8140 Adenocarcinoma, NOS	336	36.4
	8072 Squamous cell carc.large cell,nonkeratin	3	0.3
	8071 Squamous cell carcinoma, keratinizing, N	2	0.2
	8070 Squamous cell carcinoma, NOS	113	12.2
	8046 Non-small cell carcinoma	39	4.2
	8045 Combined small cell carcinoma	2	0.2
	8042 Oat cell carcinoma	9	1.0
	8041 Small cell carcinoma, NOS	50	5.4
	8020 Carcinoma, undifferentiated, NOS	6	0.7
	8012 Large cell carcinoma, NOS	10	1.1
	8010 Carcinoma, NOS	264	28.6
	8000 Neoplasm, malignant	46	5.0
	923	100.0	
C37-C38	OTHER THORACIC ORGANS		
	9150 Hemangiopericytoma, malignant	1	2.4
	9080 Teratoma, malignant, NOS	2	4.8
	9064 Germioma	1	2.4
	8852 Myxoid liposarcoma	1	2.4
	8586 Thymic carcinoma, NOS	2	4.8
	8580 Thymoma, malignant, NOS	9	21.4

ICD10	HISTOLOGY	NO	%
	8260 Papillary adenocarcinoma, NOS	1	2.4
	8246 Neuroendocrine carcinoma, NOS	1	2.4
	8140 Adenocarcinoma, NOS	13	31.0
	8082 Lymphoepithelial carcinoma	1	2.4
	8070 Squamous cell carcinoma, NOS	3	7.1
	8050 Papillary carcinoma, NOS	1	2.4
	8020 Carcinoma, undifferentiated, NOS	1	2.4
	8010 Carcinoma, NOS	1	2.4
	8000 Neoplasm, malignant	4	9.5
		42	100.0
C40-C41	BONE		
	9364 Peripheral neuroectodermal tumor	1	1.3
	9310 Ameloblastoma, malignant	2	2.7
	9270 Odontogenic tumor, malignant	2	2.7
	9260 Ewing sarcoma	8	10.7
	9250 Giant cell tumor of bone, malignant	5	6.7
	9220 Chondrosarcoma, NOS	12	16.0
	9185 Small cell osteosarcoma	1	1.3
	9184 Osteosarcoma in Paget disease of bone	1	1.3
	9180 Osteosarcoma, NOS	14	18.7
	9133 Epithelioid hemangioendothelioma, malign	1	1.3
	8912 Spindle cell rhabdomyosarcoma	1	1.3
	8901 Pleomorphic rhabdomyosarcoma, adult type	1	1.3
	8890 Leiomyosarcoma, NOS	1	1.3
	8830 Malignant fibrous histiocytoma	1	1.3
	8806 Desmoplastic small round cell tumor	2	2.7
	8800 Sarcoma, NOS	7	9.3
	8003 Malignant tumor, giant cell type	1	1.3
	8000 Neoplasm, malignant	14	18.7
		75	100.0
C43	MELANOMA OF SKIN		
	8720 Malignant melanoma, NOS (except juvenile	22	100.0
C44	OTHER SKIN		
	8832 Dermatofibrosarcoma, NOS	10	4.4
	8481 Mucin-producing adenocarcinoma	1	0.4
	8400 Sweat gland adenocarcinoma	1	0.4
	8200 Adenoid cystic carcinoma	1	0.4
	8140 Adenocarcinoma, NOS	6	2.6
	8098 Adenoid basal carcinoma	1	0.4
	8094 Basosquamous carcinoma	1	0.4
	8090 Basal cell carcinoma, NOS	137	60.1
	8081 Bowen disease	1	0.4
	8071 Squamous cell carcinoma, keratinizing, N	1	0.4
	8070 Squamous cell carcinoma, NOS	52	22.8
	8050 Papillary carcinoma, NOS	1	0.4
	8020 Carcinoma, undifferentiated, NOS	2	0.9
	8010 Carcinoma, NOS	7	3.1
	8001 Tumor cells, malignant	1	0.4
	8000 Neoplasm, malignant	5	2.2
		228	100.0
C45	MESOTHELIOMA		
	9050 Mesothelioma, malignant	1	100.0
C46	KAPOSI SARCOMA		
	9140 Kaposi sarcoma	2	100.0

ICD10	HISTOLOGY	NO	%
C47;C49	CONNECTIVE, SOFT TISSUE		
	9581 Alveolar soft part sarcoma	1	1.3
	9580 Granular cell tumor, malignant	1	1.3
	9540 Malignant peripheral nerve sheath tumor	7	9.1
	9500 Neuroblastoma, NOS	1	1.3
	9150 Hemangioepithelioma, malignant	1	1.3
	9120 Hemangiosarcoma	2	2.6
	9044 Clear cell sarcoma, NOS (except of kidney)	1	1.3
	8990 Mesenchymoma, malignant	2	2.6
	8920 Alveolar rhabdomyosarcoma	1	1.3
	8900 Rhabdomyosarcoma, NOS	10	13.0
	8894 Angiomyosarcoma	1	1.3
	8890 Leiomyosarcoma, NOS	6	7.8
	8852 Myxoid liposarcoma	5	6.5
	8850 Liposarcoma, NOS	5	6.5
	8830 Malignant fibrous histiocytoma	4	5.2
	8814 Infantile fibrosarcoma	1	1.3
	8811 Fibromyxosarcoma	2	2.6
	8810 Fibrosarcoma, NOS	7	9.1
	8804 Epithelioid sarcoma	1	1.3
	8800 Sarcoma, NOS	9	11.7
	8000 Neoplasm, malignant	9	11.7
		77	100.0
C50	BREAST		
	9020 Phyllodes tumor, malignant	10	0.6
	8935 Stromal sarcoma, NOS	2	0.1
	8852 Myxoid liposarcoma	1	0.1
	8851 Liposarcoma, well differentiated	1	0.1
	8850 Liposarcoma, NOS	1	0.1
	8821 Aggressive fibromatosis	1	0.1
	8800 Sarcoma, NOS	2	0.1
	8575 Metaplastic carcinoma, NOS	1	0.1
	8541 Paget disease and Infiltr. duct carcinoma	2	0.1
	8523 Infiltrating duct mixed with other carcin	2	0.1
	8522 Infiltrating duct and lobular carcinoma	1	0.1
	8521 Infiltrating ductular carcinoma	2	0.1
	8520 Lobular carcinoma, NOS	31	1.8
	8510 Medullary carcinoma, NOS	30	1.8
	8503 Intraductal papillary adenocarcinoma with	3	0.2
	8501 Comedocarcinoma, NOS	16	1.0
	8500 Infiltrating duct carcinoma, NOS	1321	78.5
	8490 Signet ring cell carcinoma	1	0.1
	8480 Mucinous adenocarcinoma	27	1.6
	8211 Tubular adenocarcinoma	7	0.4
	8201 Cribriform carcinoma, NOS	1	0.1
	8140 Adenocarcinoma, NOS	11	0.7
	8070 Squamous cell carcinoma, NOS	1	0.1
	8050 Papillary carcinoma, NOS	5	0.3
	8032 Spindle cell carcinoma, NOS	1	0.1
	8020 Carcinoma, undifferentiated, NOS	1	0.1
	8010 Carcinoma, NOS	160	9.5
	8000 Neoplasm, malignant	41	2.4
		1683	100.0

ICD10	HISTOLOGY	NO	%
C51	VULVA		
	8720 Malignant melanoma, NOS (except juvenile	2	18.2
	8070 Squamous cell carcinoma, NOS	5	45.5
	8010 Carcinoma, NOS	3	27.3
	8000 Neoplasm, malignant	1	9.1
		11	100.0
C52	VAGINA		
	8140 Adenocarcinoma, NOS	2	18.2
	8070 Squamous cell carcinoma, NOS	7	63.6
	8000 Neoplasm, malignant	2	18.2
		11	100.0
C53	CERVIX UTERI		
	8950 Mullerian mixed tumor	2	0.5
	8933 Adenosarcoma	2	0.5
	8890 Leiomyosarcoma, NOS	2	0.5
	8560 Adenosquamous carcinoma	6	1.5
	8480 Mucinous adenocarcinoma	2	0.5
	8384 Adenocarcinoma, endocervical type	9	2.2
	8380 Endometrioid adenocarcinoma, NOS	3	0.7
	8310 Clear cell adenocarcinoma, NOS	6	1.5
	8262 Villous adenocarcinoma	1	0.2
	8260 Papillary adenocarcinoma, NOS	4	1.0
	8140 Adenocarcinoma, NOS	58	14.1
	8083 Basaloid squamous cell carcinoma	1	0.2
	8076 Squamous cell carcinoma, microinvasive	3	0.7
	8073 Squamous cell carc.small cell,nonkeratin	2	0.5
	8072 Squamous cell carc.large cell,nonkeratin	56	13.6
	8071 Squamous cell carcinoma, keratinizing, N	19	4.6
	8070 Squamous cell carcinoma, NOS	149	36.3
	8010 Carcinoma, NOS	58	14.1
	8000 Neoplasm, malignant	28	6.8
		411	100.0
C54	CORPUS UTERI		
	8950 Mullerian mixed tumor	4	1.7
	8931 Endometrial stromal sarcoma, low grade	1	0.4
	8930 Endometrial stromal sarcoma, NOS	2	0.9
	8890 Leiomyosarcoma, NOS	2	0.9
	8560 Adenosquamous carcinoma	2	0.9
	8440 Cystadenocarcinoma, NOS	1	0.4
	8380 Endometrioid adenocarcinoma, NOS	109	47.0
	8310 Clear cell adenocarcinoma, NOS	2	0.9
	8260 Papillary adenocarcinoma, NOS	3	1.3
	8140 Adenocarcinoma, NOS	76	32.8
	8071 Squamous cell carcinoma, keratinizing, N	1	0.4
	8070 Squamous cell carcinoma, NOS	2	0.9
	8050 Papillary carcinoma, NOS	2	0.9
	8020 Carcinoma, undifferentiated, NOS	1	0.4
	8010 Carcinoma, NOS	18	7.8
	8000 Neoplasm, malignant	6	2.6
		232	100.0
C55	UTERUS UNSPEC.		
	8950 Mullerian mixed tumor	3	18.8
	8891 Epithelioid leiomyosarcoma	1	6.3
	8890 Leiomyosarcoma, NOS	1	6.3
	8380 Endometrioid adenocarcinoma, NOS	4	25.0
	8310 Clear cell adenocarcinoma, NOS	1	6.3

ICD10	HISTOLOGY	NO	%
	8140 Adenocarcinoma, NOS	2	12.5
	8010 Carcinoma, NOS	1	6.3
	8000 Neoplasm, malignant	3	18.8
		16	100.0
C56	OVARY		
	9580 Granular cell tumor, malignant	2	0.7
	9082 Malignant teratoma, undifferentiated	1	0.4
	9081 Teratocarcinoma	1	0.4
	9080 Teratoma, malignant, NOS	3	1.1
	9071 Yolk sac tumor	2	0.7
	9064 Germinoma	3	1.1
	9060 Dysgerminoma	4	1.5
	9015 Mucinous adenocarcinofibroma	1	0.4
	8950 Mullerian mixed tumor	2	0.7
	8620 Granulosa cell tumor, malignant	6	2.2
	8481 Mucin-producing adenocarcinoma	3	1.1
	8480 Mucinous adenocarcinoma	4	1.5
	8471 Papillary mucinous cystadenocarcinoma	4	1.5
	8470 Mucinous cystadenocarcinoma, NOS	11	4.0
	8461 Serous surface papillary carcinoma	2	0.7
	8460 Papillary serous cystadenocarcinoma	21	7.7
	8450 Papillary cystadenocarcinoma, NOS	1	0.4
	8441 Serous cystadenocarcinoma, NOS	14	5.1
	8440 Cystadenocarcinoma, NOS	2	0.7
	8380 Endometrioid adenocarcinoma, NOS	26	9.6
	8310 Clear cell adenocarcinoma, NOS	35	12.9
	8260 Papillary adenocarcinoma, NOS	8	2.9
	8246 Neuroendocrine carcinoma, NOS	1	0.4
	8200 Adenoid cystic carcinoma	1	0.4
	8140 Adenocarcinoma, NOS	48	17.6
	8070 Squamous cell carcinoma, NOS	4	1.5
	8050 Papillary carcinoma, NOS	1	0.4
	8020 Carcinoma, undifferentiated, NOS	1	0.4
	8010 Carcinoma, NOS	39	14.3
	8000 Neoplasm, malignant	21	7.7
		272	100.0
C57	OTHER FEMALE GENITAL		
	8140 Adenocarcinoma, NOS	3	100.0
C58	PLACENTA		
	9100 Choriocarcinoma, NOS	3	100.0
C60	PENIS		
	8090 Basal cell carcinoma, NOS	2	22.2
	8070 Squamous cell carcinoma, NOS	5	55.6
	8010 Carcinoma, NOS	2	22.2
		9	100.0
C61	PROSTATE		
	8800 Sarcoma, NOS	1	0.3
	8550 Acinar cell carcinoma	1	0.3
	8200 Adenoid cystic carcinoma	1	0.3
	8140 Adenocarcinoma, NOS	316	85.2
	8120 Transitional cell carcinoma, NOS	2	0.5
	8010 Carcinoma, NOS	32	8.6
	8000 Neoplasm, malignant	18	4.9
		371	100.0

ICD10	HISTOLOGY	NO	%
C62	TESTIS		
	9101 Choriocarcinoma combined w. other germ c	2	6.3
	9085 Mixed germ cell tumor	4	12.5
	9080 Teratoma, malignant, NOS	1	3.1
	9071 Yolk sac tumor	3	9.4
	9070 Embryonal carcinoma, NOS	1	3.1
	9064 Germioma	5	15.6
	9061 Seminoma, NOS	4	12.5
	8640 Sertoli cell carcinoma	1	3.1
	8010 Carcinoma, NOS	6	18.8
	8000 Neoplasm, malignant	5	15.6
		32	100.0
C63	OTHER MALE GENITAL		
	8140 Adenocarcinoma, NOS	1	50.0
	8010 Carcinoma, NOS	1	50.0
		2	100.0
C64	KIDNEY		
	8960 Nephroblastoma, NOS	4	2.5
	8320 Granular cell carcinoma	2	1.2
	8318 Renal cell carcinoma, sarcomatoid	2	1.2
	8312 Renal cell carcinoma, NOS	87	54.0
	8310 Clear cell adenocarcinoma, NOS	22	13.7
	8260 Papillary adenocarcinoma, NOS	3	1.9
	8140 Adenocarcinoma, NOS	12	7.5
	8120 Transitional cell carcinoma, NOS	10	6.2
	8070 Squamous cell carcinoma, NOS	1	0.6
	8050 Papillary carcinoma, NOS	1	0.6
	8010 Carcinoma, NOS	11	6.8
	8000 Neoplasm, malignant	6	3.7
		161	100.0
C65	RENAL PELVIS		
	8990 Mesenchymoma, malignant	1	14.3
	8130 Papillary transitional cell carcinoma	1	14.3
	8120 Transitional cell carcinoma, NOS	5	71.4
		7	100.0
C66	URETER		
	8140 Adenocarcinoma, NOS	1	10.0
	8130 Papillary transitional cell carcinoma	3	30.0
	8120 Transitional cell carcinoma, NOS	5	50.0
	8070 Squamous cell carcinoma, NOS	1	10.0
		10	100.0
C67	BLADDER		
	9580 Granular cell tumor, malignant	1	0.4
	8890 Leiomyosarcoma, NOS	1	0.4
	8490 Signet ring cell carcinoma	1	0.4
	8480 Mucinous adenocarcinoma	1	0.4
	8440 Cystadenocarcinoma, NOS	1	0.4
	8310 Clear cell adenocarcinoma, NOS	1	0.4
	8140 Adenocarcinoma, NOS	13	5.6
	8130 Papillary transitional cell carcinoma	33	14.2
	8120 Transitional cell carcinoma, NOS	129	55.6
	8070 Squamous cell carcinoma, NOS	3	1.3
	8050 Papillary carcinoma, NOS	2	0.9
	8020 Carcinoma, undifferentiated, NOS	1	0.4
	8010 Carcinoma, NOS	35	15.1
	8000 Neoplasm, malignant	10	4.3
		232	100.0

ICD10	HISTOLOGY	NO	%
C68	OTHER URINARY ORGANS		
	8010 Carcinoma, NOS	1	50.0
	8000 Neoplasm, malignant	1	50.0
		2	100.0
C69	EYE		
	9510 Retinoblastoma, NOS	2	22.2
	9501 Medulloepithelioma, NOS	1	11.1
	9150 Hemangioepithelioma, malignant	1	11.1
	8720 Malignant melanoma, NOS (except juvenile	1	11.1
	8140 Adenocarcinoma, NOS	1	11.1
	8070 Squamous cell carcinoma, NOS	2	22.2
	8000 Neoplasm, malignant	1	11.1
		9	100.0
C70-C72	BRAIN, NERVOUS SYSTEM		
	9540 Malignant peripheral nerve sheath tumor	1	0.8
	9539 Meningeal sarcomatosis	2	1.5
	9530 Meningioma, malignant	17	13.1
	9473 Primitive neuroectodermal tumor, NOS	2	1.5
	9471 Desmoplastic nodular medulloblastoma	3	2.3
	9470 Medulloblastoma, NOS	8	6.2
	9450 Oligodendroglioma, NOS	5	3.8
	9442 Gliosarcoma	1	0.8
	9440 Glioblastoma, NOS	17	13.1
	9420 Fibrillary astrocytoma	1	0.8
	9401 Astrocytoma, anaplastic	2	1.5
	9400 Astrocytoma, NOS	30	23.1
	9392 Ependymoma, anaplastic	1	0.8
	9391 Ependymoma, NOS	3	2.3
	9382 Mixed glioma	3	2.3
	9380 Glioma, malignant	6	4.6
	9120 Hemangiosarcoma	1	0.8
	9081 Teratocarcinoma	1	0.8
	9080 Teratoma, malignant, NOS	2	1.5
	9064 Germinoma	3	2.3
	8806 Desmoplastic small round cell tumor	1	0.8
	8000 Neoplasm, malignant	20	15.4
		130	100.0
C73	THYROID		
	8510 Medullary carcinoma, NOS	1	0.8
	8350 Nonencapsulated sclerosing carcinoma	1	0.8
	8346 Mixed medullary-follicular carcinoma	1	0.8
	8345 Medullary carcinoma with amyloid stroma	1	0.8
	8340 Papillary carcinoma, follicular variant	5	3.9
	8335 Follicular carcinoma, minimally invasive	3	2.3
	8330 Follicular adenocarcinoma, NOS	19	14.7
	8290 Oxyphilic adenocarcinoma	3	2.3
	8260 Papillary adenocarcinoma, NOS	20	15.5
	8140 Adenocarcinoma, NOS	2	1.6
	8070 Squamous cell carcinoma, NOS	1	0.8
	8050 Papillary carcinoma, NOS	54	41.9
	8033 Pseudosarcomatous carcinoma	1	0.8
	8021 Carcinoma, anaplastic, NOS	3	2.3
	8010 Carcinoma, NOS	13	10.1
	8000 Neoplasm, malignant	1	0.8
		129	100.0

ICD10	HISTOLOGY	NO	%
C74	ADRENAL GLAND		
	9500 Neuroblastoma, NOS	3	42.9
	8890 Leiomyosarcoma, NOS	1	14.3
	8370 Adrenal cortical carcinoma	1	14.3
	8010 Carcinoma, NOS	1	14.3
	8000 Neoplasm, malignant	1	14.3
		7	100.0
C75	OTHER ENDOCRINE		
	9362 Pineoblastoma	1	12.5
	9361 Pineocytoma	1	12.5
	9064 Germinoma	2	25.0
	8430 Mucoepidermoid carcinoma	1	12.5
	8140 Adenocarcinoma, NOS	1	12.5
	8000 Neoplasm, malignant	2	25.0
		8	100.0
C81	HODGKIN DISEASE		
	9665 Hodgkin lymphoma, nodular sclerosis, gra	2	3.8
	9663 Hodgkin lymphoma, nodular sclerosis, NOS	16	30.8
	9653 Hodgkin lymphoma, lymphocyte depletion,	1	1.9
	9652 Hodgkin lymphoma, mixed cellularity, NOS	1	1.9
	9651 Hodgkin lymphoma, lymphocyte-rich	1	1.9
	9650 Hodgkin lymphoma, NOS	31	59.6
		52	100.0
C82- C85;C96	NON-HODGKIN LYMPHOMA		
	9754 Langerhans cell histiocytosis, dissemina	1	0.3
	9729 Precursor T-cell lymphoblastic lymphoma	1	0.3
	9727 Precursor cell lymphoblastic lymphoma, N	2	0.6
	9718 Primary cutaneous CD30+ T-cell lymphopro	1	0.3
	9714 Anaplastic large cell lymphoma, T cell/N	1	0.3
	9709 Cutaneous T-cell lymphoma, NOS	2	0.6
	9702 Mature T-cell lymphoma, NOS	9	2.9
	9698 Follicular lymphoma, grade 3	1	0.3
	9695 Follicular lymphoma, grade 1	2	0.6
	9690 Follicular lymphoma, NOS	13	4.2
	9687 Burkitt lymphoma, NOS	3	1.0
	9684 Malignant lymphoma, large B-cell, diffuse, immu	2	0.6
	9680 Malignant lymphoma, large B-cell, diffus	48	15.5
	9679 Mediastinal large B-cell lymphoma	1	0.3
	9675 Malignant lymphoma, mixed small/large ce	1	0.3
	9670 Malignant lymphoma, small B lymphocytic,	7	2.3
	9596 Composite Hodgkin and non-Hodgkin lympho	6	1.9
	9591 Malignant lymphoma, non-Hodgkin, NOS	165	53.4
	9590 Malignant lymphoma, NOS	43	13.9
		309	100.0
C90	MULTIPLE MYELOMA		
	9732 Multiple myeloma	37	97.4
	9731 Plasmacytoma, NOS	1	2.6
		38	100.0
C91	LYMPHOID LEUKAEMIA		
	9837 Precursor T-cell lymphoblastic leukemia	2	1.9
	9836 Precursor B-cell lymphoblastic leukemia	3	2.8
	9835 Precursor cell lymphoblastic leukemia, N	87	80.6
	9832 Prolymphocytic leukemia, NOS	1	0.9
	9827 Adult T-cell leukemia/lymphoma (HTLV-1 p	2	1.9
	9826 Burkitt cell leukemia	3	2.8
	9823 B-cell chronic lymphocytic leukemia/smal	7	6.5
	9820 Lymphoid leukemia, NOS	3	2.8
		108	100.0



ICD10	HISTOLOGY	NO	%
C92-C94	MYELOID LEUKAEMIA		
	9945 Chronic myelomonocytic leukemia, NOS	1	0.5
	9931 Acute panmyelosis with myelofibrosis	1	0.5
	9930 Myeloid sarcoma	1	0.5
	9896 Acute myeloid leukemia, t(8;21)(q22;q22)	4	2.2
	9895 Acute myeloid leukemia with multilineage	1	0.5
	9891 Acute monocytic leukemia	1	0.5
	9874 Acute myeloid leukemia with maturation	2	1.1
	9872 Acute myeloid leukemia, minimal differen	1	0.5
	9867 Acute myelomonocytic leukemia	6	3.2
	9866 Acute promyelocytic leukemia, t(15;17)(q	13	7.0
	9863 Chronic myeloid leukemia, NOS	39	21.1
	9861 Acute myeloid leukemia, NOS	102	55.1
	9860 Myeloid leukemia, NOS	12	6.5
	9840 Acute myeloid leukemia, M6 type	1	0.5
		185	100.0
C95	LEUKAEMIA UNSPEC.		
	9801 Acute leukemia, NOS	32	78.0
	9800 Leukemia, NOS	9	22.0
		41	100.0
	OTHER & UNSPEC.		
	9500 Neuroblastoma, NOS	1	0.4
	9372 Dedifferentiated chordoma	1	0.4
	9080 Teratoma, malignant, NOS	4	1.5
	9064 Germioma	1	0.4
	8936 Gastrointestinal stromal sarcoma	5	1.9
	8890 Leiomyosarcoma, NOS	4	1.5
	8850 Liposarcoma, NOS	1	0.4
	8830 Malignant fibrous histiocyoma	1	0.4
	8810 Fibrosarcoma, NOS	1	0.4
	8805 Undifferentiated sarcoma	1	0.4
	8574 Adenocarcinoma, neuroendocrine different	1	0.4
	8560 Adenosquamous carcinoma	1	0.4
	8550 Acinar cell carcinoma	1	0.4
	8490 Signet ring cell carcinoma	2	0.8
	8481 Mucin-producing adenocarcinoma	1	0.4
	8480 Mucinous adenocarcinoma	2	0.8
	8470 Mucinous cystadenocarcinoma, NOS	1	0.4
	8460 Papillary serous cystadenocarcinoma	1	0.4
	8310 Clear cell adenocarcinoma, NOS	1	0.4
	8260 Papillary adenocarcinoma, NOS	5	1.9
	8246 Neuroendocrine carcinoma, NOS	2	0.8
	8140 Adenocarcinoma, NOS	53	20.2
	8120 Transitional cell carcinoma, NOS	6	2.3
	8083 Basaloid squamous cell carcinoma	1	0.4
	8072 Squamous cell carc.large cell,nonkeratin	4	1.5
	8071 Squamous cell carcinoma, keratinizing, N	1	0.4
	8070 Squamous cell carcinoma, NOS	56	21.4
	8051 Verrucous carcinoma, NOS	1	0.4
	8050 Papillary carcinoma, NOS	2	0.8
	8041 Small cell carcinoma, NOS	2	0.8
	8020 Carcinoma, undifferentiated, NOS	5	1.9
	8012 Large cell carcinoma, NOS	3	1.1
	8010 Carcinoma, NOS	31	11.8
	8000 Neoplasm, malignant	59	22.5
		262	100.0

APPENDIX 19

TOTAL NOTIFICATIONS RECEIVED (2004-2008)

SOURCE	YEAR					
GOVERNMENT HOSPITAL	2004	2005	2006	2007	2008	TOTAL
Hospital Pulau Pinang (+ Dental)	489	527	514	425	241	2196
Hospital Seberang Jaya	69	77	81	0	0	227
Hospital Bukit Mertajam	6	66	28	65	68	233
Hospital Balik Pulau	2	0	7	10	5	24
Hospital Sungal Bakap	0	0	0	1	0	1
Hospital Kepala Batas	0	0	0	0	55	55
Nasional Kanser Registry	-	-	-	47	14	61
Hospital Luar Negeri Penang	-	-	-	-	32	32
Sub-total	566	670	630	548	415	2829
PRIVATE HOSPITAL	2004	2005	2006	2007	2008	TOTAL
Bagan Specialist Centre	3	24	27	12	36	102
Gleneagles Medical Centre	213	57	182	251	1	704
Island Hospital	324	301	353	380	369	1727
Klinik Chua / Public	11	14	10	13	4	52
Ks Wan Maternity Centre	10	6	0	1	2	19
Lam Wah Ee Hospital	218	544	530	806	795	2893
Loh Guan Lye Specialist Centre	0	316	167	304	259	1046
KPJ Specialist Centre	0	5	15	7	8	35
Mount Miriam Hospital	237	467	148	151	277	1280
Nagreh Skin Clinic	0	0	0	0	0	0
Nippon Surgical Clinic	31	28	22	23	25	129
Pantai Mutiara Hospital	52	79	248	150	160	689
Penang Adventist Hospital	258	317	256	204	253	1288
Santokh Ent Clinic	4	6	4	5	0	19
Tropicana Medical Centre	21	36	18	25	18	118
Tanjung Medical Centre	0	2	4	0	0	6
Peace Medical Centre	0	0	0	0	1	1
Sub-total	1,382	2,202	1,984	2,332	2,208	10,108
PATHOLOGIST	2004	2005	2006	2007	2008	TOTAL
Government Pathologist	1149	1203	666	1048	1142	5208
Private Path						
PATHLAB	15	7	2	1	2	27
GRIBBLES	954	800	738	847	1108	4447
Private Path Hospital						
Hospital Lam Wah Ee	773	702	808	877	757	3917
Hospital Pantai	-	-	-	24	172	196
Hospital Adventist	-	-	-	81	256	337
Hospital Island	-	-	-	62	383	445
Sub-total	2,891	2,712	2,214	2,940	3,820	14,577
TOTAL	4,273	4,914	4,198	5,272	6,028	24,685

APPENDIX 20

CANCER NOTIFICATION FORM

CANCER NOTIFICATION FORM

[explanatory notes overleaf]

NCR-2

CONFIDENTIAL

PENANG CANCER REGISTRY

c/o Jabatan Kesihatan Negeri

Tingkat 37, KOMTAR

10590 Pulau Pinang

Tel : 04-2625533 / 04-2017241, FAX : 04-2623371

FOR REGISTRY USE

Case No. CR4 :

☐ Pending ☐ Confirmed

Mode of Notification

1. Spontaneous

2. On request

3. Other

1. PATIENT

Ident. No. - - Old I/C No. :

[M'sia New I/C]

Name :

Usual Residential Address :

Post Code : State : District :

Date of Birth : Ethnic Group : Sex : Citizenship :

D D M M Y Y

1 ☐ Malay 77 ☐ Indonesian
2 ☐ Chinese 88 ☐ Others *
3 ☐ Indian

1 ☐ Male 1 ☐ Malaysian
2 ☐ Female 2 ☐ * Non-Malaysian

Age :

* Please specify

* Please specify

2. SOURCE OF INFORMATION

- 1 ☐ Hospital/Clinic
Reg. No.
2 ☐ Pathology Lab
Lab No.
3 ☐ Other Sources

6. STAGE OF DIAGNOSIS [at time of diagnosis]

- ☐ Stage I ☐ Stage IV
☐ Stage II ☐ Unknown
☐ Stage III

Lymph node involvement 1 ☐ Yes 2 ☐ No

Remote Metastases 1 ☐ Yes 2 ☐ No

3. DIAGNOSIS [Specify primary organ/site cancer/ exact location/laterality if possible]

Topography (site)

Morphology (Histology)

4. DATE OF DIAGNOSIS
D D M M Y Y

7. TYPE OF TREATMENT (Date Started Treatment)

- ☐ None ☐ Surgery (//)
☐ Chemotherapy (//) ☐ Radiotherapy (//)
☐ Hormonal (//) ☐ Unknown (//)
☐ Other (//) Please specify

5. BASIS OF DIAGNOSIS

- ☐ 0 Death Certificate only ☐ 1 Clinical
☐ 2 Clinical Investigations ☐ 7 Histology of primary
tumour
☐ 4 Specific tumour markers ☐ 9 Unknown
☐ 5 Cytology
☐ 6 Histology of metastasis

8. PRESENT STATUS

1 ☐ Alive 2 ☐ Dead

Date of last seen : //

If Dead, Date of Death : //

Cause of Death

9. Remarks [if any] :

DATE OF NOTIFICATION
D D M M Y Y

Notified by :

[Name and Designation of Reporting Officer]

Clinic/Hospital name :

Tel. No. : -

PLEASE FILL THIS FORM WITH ANY INFORMATION AVAILABLE WITH YOU AND SEND IT AS SOON AS POSSIBLE

PLEASE MAINTAIN CONFIDENTIALITY AT ALL TIME

THANK YOU FOR YOUR COOPERATION

Cancer Registry



APPENDIX 21

EXPLANATORY NOTES FOR COMPLETING CANCER NOTIFICATION FORM

Please Notify :

- (a) All cases of cancer (i.e. carcinomas, sarcomas, leukaemias and all other malignant tumours) diagnosed in your hospital, clinic or practice.
- (b) Confirmed cases of cancer as well as cases of 'probable cancer' in which the diagnosis is based only on clinical finding (i.e. without histological, radiological or other methods of confirmation).
- (c) All cases diagnosed in Malaysia regardless of citizenship or place of domicile of the patient.
- (d) A case even if you think may have been notified by some other doctor previously.
- (e) * Follow-up cases, please use the same form (Fill in name, I/C number, source of information and any other information that is different from the original/previous notification form).

PROCEDURE

1. Patient Identification No. :

For Malaysian patient with new I/C No., fill up all the 12 digits and the old I/C No. if available.

For patient with only old I/C No., fill up his/her I/C No. in the Identification No. boxes.

Children below 12 years without NRIC, insert parent's I/C No. with additional letter M or F in the appropriate boxes indicating mother or father NRIC was used. (e.g. A1234567M)

Passport No., Police/Arm Forces Identification Card Number to be used for foreigners/police/arm forces personnel. (Please Indicate)

Name : Full name in block letters as in the NRIC/passport.

Usual Residential Address : Address where the patient usually resides.
(Note : The address in NRIC may not be the same)

Date of Birth: Insert date of birth of patient into the boxes. If not available, insert year of birth.

Sex, Ethnic Group, Citizenship: Tick appropriate box.

2. Source of Information (refers to Hospital/Clinic the notifying doctor is working in)
Tick the appropriate box e.g. ☒ Hospitals/Clinics Hospital Pulau Pinang Reg. No. : 93/0197

3. Diagnosis (If insufficient space, write the information on a piece of paper and attach as appendix)
Diagnosis: This refers to the diagnosis at the time of notification.
Please write in words with as much detail as possible.

Pathological Diagnosis: Please write in words with as much detail as possible.

4. Date of Diagnosis: Insert date diagnosis made. (Date that can be verified from records)

5. Basis of Diagnosis: Tick appropriate box(es).

6. Stage of Disease at the time of diagnosis: Fill in and tick appropriate box(es).

7. Type of Treatment: Tick appropriate box(es) and fill in date of first treatment.

8. Present Status: Tick the appropriate box and fill in relevant details.

9. Date of Notification: Insert the date into the appropriate box.

- If patient is being followed up frequently; for example when undergoing treatment, the attending practitioner may choose to notify only once.

Appendix 22 : NUMBER OF NEW CASES BY SITES AND AGE GROUP, ALL RESIDENTS, MALES, PENANG, 2004-2008

Sites	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	% of Total	ICD (10th)
Lip	4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.10%	C00
Tongue	38		0	0	0	1	0	2	0	2	3	3	3	4	3	8	5	4	0.80%	C01-C02
Mouth	33		0	0	0	0	0	0	0	1	0	2	2	7	6	7	2	8	0.70%	C03-C08
Salivary glands	15		0	0	0	0	0	0	0	1	2	0	2	3	1	2	1	1	0.30%	C07-C08
Tonsil	12		0	0	0	0	0	0	0	1	0	0	1	3	2	4	1	0	0.30%	C08
Other Oropharynx	8		0	0	0	0	0	0	0	1	0	0	1	2	2	2	1	0	0.20%	C10
Nasopharynx	289		0	0	0	1	1	6	15	19	40	37	48	41	26	28	13	15	6.50%	C11
Hypopharynx	22		0	0	0	0	0	0	0	0	0	0	1	2	3	2	10	2	0.50%	C12-C13
Pharynx unsp.	4		0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0.10%	C14
Oesophagus	68		0	0	0	0	0	0	1	0	1	0	1	2	6	8	18	6	1.50%	C15
Stomach	228		0	0	0	0	0	2	1	2	5	17	17	25	34	33	34	53	5.10%	C16
Small Intestine	14		0	0	0	0	0	0	0	0	0	1	1	1	1	4	1	2	0.30%	C17
Colon	388		0	0	2	1	0	3	5	10	19	18	42	30	55	66	62	85	8.90%	C18
Rectum	305		0	0	0	0	0	1	3	5	12	25	30	47	48	46	36	52	6.80%	C19-C20
Anus	8		0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	1	0.20%	C21
Liver	283		0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	2	0.20%	C22
Gallbladder etc.	28		0	0	0	0	0	0	1	1	7	9	17	39	41	38	25	34	5.90%	C23-C24
Pancreas	101		0	0	0	0	0	0	0	0	0	0	1	4	8	6	3	2	0.80%	C25
Nose, sinuses etc.	18		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.30%	C30-C31
Larynx	89		0	0	0	0	0	0	0	1	1	3	2	13	9	17	19	17	2.20%	C32
Trachea, Bronchus, Lung	787		0	0	0	1	1	2	1	13	18	46	84	116	104	126	128	147	17.20%	C33-C34
Other Thoracic organs	23		0	0	0	0	0	0	0	0	0	0	1	2	2	4	2	1	0.50%	C37-C38
Bone	52		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.20%	C40-C41
Melanoma of Skin	9		0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	1	0.20%	C43
Other Skin	137		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.10%	C44
Mesothelioma	1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C45
Kaposi sarcoma	3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C46
Connective, Soft tissue	46		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.00%	C47-C49
Breast	14		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C50
Penis	11		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C60
Prostate	376		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.40%	C61
Testis	32		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.70%	C62
Other male genital	2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C63
Kidney	103		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.30%	C64
Renal Pelvis	6		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C65
Ureter	5		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C66
Bladder	191		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.30%	C67
Other Urinary organs	1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C68
Eye	3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C69
Brain, Nervous system	95		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.10%	C70-C72
Thyroid	37		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C73
Adrenal gland	5		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C74
Other Endocrine	8		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C75
Hodgkin disease	40		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.90%	C81
Non-Hodgkin lymphoma	185		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.10%	C82-C85/C86
Immunoproliferative dis.	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C86
Multiple Myeloma	21		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.50%	C90
Lymphoid Leukaemia	65		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.50%	C91
Myeloid Leukaemia	83		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.90%	C92-C94
Leukaemia unsp.	28		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C95
Other & unspecified	165		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.70%	Other
All sites Total	4467		55	40	38	42	50	58	82	131	195	285	410	511	571	666	568	756	100.00%	All
All sites but C44	4330		55	40	37	41	49	55	80	127	186	280	387	497	557	641	544	732	96.90%	Not C44

Appendix 23 : NUMBER OF NEW CASES BY SITES AND AGE GROUP, ALL RESIDENTS, FEMALES, PENANG, 2004-2008

Sites	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	% of Total	ICD (10th)
Lip	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.10%	C00
Tongue	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.40%	C01-C02
Mouth	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0.40%	C03-C06
Salivary glands	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.30%	C07-C08
Tonsil	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C09
Other Oropharynx	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C10
Nasopharynx	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1.80%	C11
Hypopharynx	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.10%	C12-C13
Pharynx unsp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C14
Oesophagus	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C15
Stomach	176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	3.40%	C16
Small intestine	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.20%	C17
Colon	407	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	7.80%	C18
Rectum	234	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	4.50%	C19-C20
Anus	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	0.20%	C21
Liver	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	2.30%	C22
Gallbladder etc.	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0.70%	C23-C24
Pancreas	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1.50%	C25
Nose, sinuses etc.	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.10%	C30-C31
Larynx	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.10%	C32
Trachea, Bronchus, Lung	281	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	5.40%	C33-C34
Other Thoracic organs	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.40%	C37-C38
Bone	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.80%	C40-C41
Melanoma of Skin	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.30%	C43
Other Skin	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	1.80%	C44
Mesothelioma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C45
Kaposi sarcoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C46
Connective, Soft tissue	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.70%	C47-C49
Breast	1699	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113	32.50%	C50
Vulva	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.20%	C51
Vagina	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.20%	C52
Cervix Uteri	418	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	8.00%	C53
Corpus Uteri	237	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	4.50%	C54
Uterus unsp.	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.30%	C55
Ovary	280	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	5.40%	C56
Other Female Genital	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C57
Placenta	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C58
Kidney	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1.20%	C59
Renal Pelvis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C60
Ureter	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.10%	C61
Bladder	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	1.10%	C62
Other Urinary organs	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00%	C63
Eye	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C64
Brain, Nervous system	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00%	C65
Thyroid	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1.40%	C66
Adrenal gland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C67
Other Endocrine	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C68
Hodgkin disease	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C69
Non-Hodgkin lymphoma	132	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	2.50%	C70-C72
Immunoproliferative dia.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C73
Multiple Myeloma	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C74
Lymphoid Leukaemia	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.50%	C75
Myeloid Leukaemia	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.80%	C76
Leukaemia unsp.	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2.00%	C77
Other & unspecified	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	2.60%	C78-C85/C96
All sites Total	5225	0	35	28	20	42	64	80	125	265	393	594	712	639	580	507	475	668	100.00%	All
All sites but C44	5131	0	35	28	20	41	60	78	125	264	393	584	707	625	570	499	464	638	98.20%	Not C44

Appendix 24 : CANCER INCIDENCE, ALL RESIDENTS, MALES, PENANG, 2004-2008

Site	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Crude Rate	ASR World	ICD (10th)
Up	4	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2	6.2	0.1	0.2	C00
Tongue	38	0	-	-	-	0.3	-	0.7	-	0.6	1.3	1.4	1.6	2.6	2.8	11	10.9	8.2	1.1	1.3	C01-C02
Mouth	33	0	-	-	-	-	-	-	-	0.4	-	0.9	1.1	4.9	5.7	9.8	4.3	12.4	0.8	1.2	C03-C06
Salivary glands	15	0	-	-	-	-	-	-	0.4	0.6	-	0.9	1.1	2.1	1	2.7	2.2	2.1	0.4	0.5	C07-C08
Tonsil	12	0	-	-	-	-	-	-	0.4	-	-	0.5	1.6	1.4	3.8	1.4	-	-	0.3	0.4	C09
Other Oropharynx	8	0	-	-	-	-	0.3	-	0	0.4	-	-	0.5	-	1.9	2.7	2.2	-	0.2	0.3	C10
Nasopharynx	289	0	-	-	0.3	0.3	0.3	2.1	5.3	7.3	16.7	17.1	28	28.9	24.9	35.6	28.2	30.9	8.3	8.7	C11
Hypopharynx	22	0	-	-	-	-	-	-	-	-	-	0.5	1.1	1.4	2.9	2.7	21.7	4.1	0.6	0.9	C12-C13
Pharynx unspc.	4	0	-	-	-	-	-	-	-	0.4	-	-	0.5	0.7	1	-	-	-	0.1	0.1	C14
Oesophagus	68	0	-	-	-	-	0.3	-	0.4	-	0.4	0.9	3.3	5.6	15.3	24.8	13	18.5	1.9	2.5	C15
Stomach	228	0	-	-	-	-	0.7	0.3	0.7	1.8	2.1	7.9	9.2	17.6	32.5	45.2	73.9	108.2	6.5	8.3	C16
Small Intestine	14	0	-	-	-	-	0	-	0.7	-	0.4	0.5	0.5	0.7	3.6	1.4	2.2	4.1	0.4	0.5	C17
Colon	388	0	-	-	0.6	0.3	0	1	1.8	3.8	7.9	8.3	22.8	21.1	52.9	90.4	134.7	175.2	11.4	14.5	C18
Rectum	305	0	-	-	-	-	0	0.3	1.1	1.9	5	11.6	18.3	33.1	45.9	83	78.2	107.2	8.7	10.8	C19-C20
Anus	8	0	-	-	-	-	0.3	-	-	-	-	0.5	-	0.7	-	2.7	2.2	4.1	0.2	0.3	C21
Liver	283	0	-	0.3	0.3	-	0.3	0.3	2.5	2.7	3.8	7.9	21.1	27.5	39.2	52	54.3	70.1	7.5	9.0	C22
Gallbladder etc.	28	0	-	-	-	-	-	0.3	0.4	-	0.8	-	0.5	2.8	7.7	8.2	6.5	4.1	0.8	1.0	C23-C24
Pancreas	101	0	-	-	-	-	-	-	-	0.8	2.1	6	3.8	7.7	13.4	28.8	10.9	47.4	2.9	3.6	C25
Nose, sinuses etc.	18	0	-	-	-	-	-	-	-	0.4	0.8	0.9	1.1	-	3.8	4.1	8.2	-	0.5	0.6	C30-C31
Larynx	89	0	-	-	-	-	-	-	0.4	0.4	1.3	0.9	7	6.3	18.3	26	36.9	35	2.8	3.7	C32
Trachea, Bronchus, Lung	767	0	-	-	-	0.3	0.3	0.7	0.4	5	7.5	21.3	34.7	81.7	99.5	172.5	278.1	303	21.9	27.9	C33-C34
Other Thoracic organs	23	0	-	-	-	0.3	1.3	0.7	-	0.8	0.4	0.5	1.1	1.4	3.8	2.7	2.2	2.1	0.7	0.7	C37-C38
Bone	52	0	-	-	0.6	1	1.7	0.7	1.1	1.1	2.9	0.9	2.2	3.5	3.8	5.5	8.7	4.1	1.5	1.6	C40-C41
Melanoma of Skin	9	0	-	-	-	0.3	-	-	-	0.4	-	0.5	0.5	2.1	-	-	2.2	2.1	0.3	0.3	C43
Other Skin	137	0	-	-	0.3	0.3	0.3	1.4	0.7	1.5	2.9	2.3	7	9.9	13.4	34.2	47.8	49.5	3.9	4.9	C44
Mesothelioma	1	0	-	-	-	-	-	-	-	-	-	-	0.5	-	-	-	-	-	0.0	0.0	C45
Kaposi sarcoma	3	0	-	-	-	-	-	0.3	-	0.4	0.4	-	-	-	-	-	-	-	0.1	0.1	C46
Connective, Soft tissue	46	0	-	0.3	0.8	1	0.3	1	0.4	0.4	1.3	2.3	2.7	2.1	4.8	5.5	-	12.4	1.3	1.5	C47-C49
Breast	14	0	-	-	-	-	0.3	-	0.4	-	-	0.9	0.5	1.4	1	2.7	6.5	2.1	0.4	0.5	C50
Prostate	11	0	-	-	-	-	-	-	-	-	-	-	0.5	0.7	1	4.1	4.3	6.2	0.3	0.4	C60
Testis	378	0	-	-	-	-	-	-	-	-	-	2.8	4.9	14.1	45	98.6	189.1	278.2	10.7	15.1	C61
Other male genital	32	0	-	-	0.9	0.6	1.7	1.4	1.1	1.8	0.4	-	0.5	0.7	-	-	4.3	2.1	0.9	0.9	C62
Kidney	2	0	-	0.3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	0.1	0.1	C63
Renal Pelvis	103	0	-	0.5	-	-	-	-	0.4	2.3	3.3	5.6	4.9	11.3	8.6	15.1	30.4	22.7	2.9	3.4	C64
Ureter	6	0	-	-	-	-	-	-	-	-	-	0.5	0.5	-	1.4	1.4	2.2	4.1	0.1	0.2	C65
Bladder	5	0	-	-	-	-	-	-	-	-	-	-	-	-	1	1.4	2.2	4.1	0.1	0.2	C66
Other Urinary organs	191	0	-	-	0.3	-	0.3	0.7	0.7	1.5	2.9	6	5.4	15.5	21	43.8	85.2	92.7	5.5	7.0	C67
Eye	1	0	-	-	-	-	-	-	-	-	0.4	-	-	-	-	-	-	-	0.0	0.0	C68
Brain, Nervous system	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1	0.1	0.1	C69
Thyroid	95	0	-	0.8	1.9	1	1.7	1	2.5	0.8	3.8	2.8	7	7.7	3.8	9.6	2.2	12.4	2.7	2.9	C70-C72
Adrenal gland	37	0	-	0.3	0.3	0.3	0.7	0.3	1.1	1.5	0.8	2.3	1.1	0.7	2.9	9.6	4.3	4.1	1.1	1.2	C73
Other Endocrine	5	0	-	-	-	-	-	-	-	-	-	0.5	-	0.7	1	-	-	-	0.1	0.2	C74
Hodgkin disease	8	0	-	-	0.3	0.3	0.3	0.3	0.4	0.4	0.4	-	-	1.4	-	-	-	-	0.2	0.2	C75
Non-Hodgkin lymphoma	40	0	-	0.5	0.9	1.8	0.7	0.3	0.4	1.9	0.4	1.4	2.7	3.5	-	1.4	4.3	6.2	1.1	1.2	C81
Immunoproliferative dis.	185	0	-	2.5	1.3	1.9	1	1	1.8	3.1	3.3	9.3	9.2	15.5	21	37	23.9	35	5.3	6.1	C82-C85/C88
Multiple Myeloma	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C88
Lymphoid Leukaemia	21	0	-	-	-	-	-	-	-	0.4	-	0.5	1.1	0.7	5.7	5.5	10.9	-	0.8	0.8	C90
Myeloid Leukaemia	65	0	-	3.8	1.9	0.3	1.7	1.7	2.1	1.1	1.3	0.5	2.7	1.4	1	2.7	8.7	-	1.9	1.9	C91
Leukaemia unspc.	83	0	-	0.6	0.3	1.6	1.7	2.8	1.8	2.3	2.9	1.9	4.9	4.2	4.8	9.8	15.2	8.2	2.4	2.5	C92-C94
Other & unspecified	28	0	-	3.7	0.6	0.3	0.3	-	-	-	-	0.5	0.5	-	2.9	2.7	-	4.1	0.7	0.9	C95
All sites Total	4467	0	-	17	11	12	14	17	20	29	50	82	137	222	380	546	912	1230	127.5	156.7	All
All sites excl C44	4330	0	-	17	11	12	13	16	19	28	49	79	134	215	350	533	876	1182	123.8	151.8	Not C44

Appendix 25 : CANCER INCIDENCE, ALL RESIDENTS, FEMALES, PENANG, 2004-2008

Site	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Crude Rate	ASR World	ICD (10th)	
Up	3	0	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-	-	1.3	0.1	0.1	C00	
Tongue	23	0	-	-	-	-	-	-	-	0.4	0.8	0.9	1.6	2.1	1.8	2.3	8.6	5.2	0.7	0.7	C01-C02	
Mouth	23	0	-	-	-	-	-	-	-	-	-	-	1.1	2.1	0.9	8.2	4.8	9.1	0.7	0.7	C03-C06	
Salivary glands	16	0	-	-	-	-	-	-	-	-	0.8	0.5	1.1	1.4	0.9	1.2	1.8	2.6	0.5	0.4	C07-C08	
Tonsil	9	0	-	-	-	-	-	-	-	-	0.4	1.4	0.5	-	0.8	-	4.9	-	0.3	0.3	C09	
Other Oropharynx	2	0	-	-	-	-	-	-	-	-	-	0.5	0.5	-	-	-	-	-	-	0.1	0.1	C10
Nasopharynx	82	0	-	-	-	1	0.7	1.7	1.7	1.5	4.2	5	7.4	8.3	11.8	5.8	9.8	2.8	0.2	2.8	C11	
Hypopharynx	7	0	-	-	-	-	-	-	-	-	-	-	0.8	0.5	0.7	-	1.6	2.6	0.2	0.2	C12-C13	
Pharynx unsp.	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C14	
Oesophagus	42	0	-	-	-	-	-	-	-	-	-	-	1.8	2.8	3.7	7	14.7	15.7	1.2	1.3	C15	
Stomach	178	0	-	-	-	-	-	-	1.3	2.8	2.9	4.8	10.1	7.8	14.6	23.4	42.6	73.2	5.0	5.1	C16	
Small Intestine	9	0	-	-	-	0.3	-	-	0.3	-	-	-	1.1	0.7	-	1.2	1.8	2.8	0.3	0.2	C17	
Colon	407	0	-	-	0.7	0.7	1	2	3.4	6.7	8.6	21.2	35.8	30.1	64.3	100	139.8	11.5	11.9	C18		
Rectum	234	0	-	-	-	-	0.3	0.7	1.9	2.5	8.2	17	18.3	30.1	26.8	65.5	60.1	6.8	7.0	C19-C20		
Anus	11	0	-	-	-	-	-	-	-	-	0.9	-	-	-	2.7	1.2	1.8	5.2	0.3	0.3	C21	
Liver	121	0	0.6	0.3	-	-	0.3	-	-	1.1	0.8	1.8	6.4	9	10	32.7	24.8	37.9	3.4	3.7	C22	
Gallbladder etc.	38	0	-	-	-	-	-	-	0.3	0.7	0.4	3.2	7.4	4.1	13.7	10.5	9.8	18.3	2.1	2.3	C23-C24	
Pancreas	78	0	-	-	-	-	-	-	-	-	-	-	0.5	-	5.5	7	13.1	19.8	1.0	1.1	C25	
Nose, sinuses etc.	7	0	-	-	-	-	-	-	-	0.4	-	-	-	-	0.9	-	3.3	3.9	0.2	0.2	C30-C31	
Larynx	6	0	-	-	-	-	-	-	-	-	-	-	0.5	0.7	0.9	-	1.6	2.6	0.2	0.2	C32	
Trachea, Bronchus, Lung	281	0	-	-	-	-	0.7	0.3	0.7	4.8	8.7	15.9	29.8	32.9	53.8	82.3	89.3	7.9	8.5	C33-C34		
Other Thoracic organs	19	0	-	-	-	-	0.3	0.3	-	0.4	0.4	-	1.1	2.1	1.8	2.3	3.3	3.9	0.5	0.8	C37-C38	
Bone	30	0	0.3	0.3	0.3	1.4	0.3	0.3	0.3	0.4	0.8	2.3	0.5	0.7	1.8	2.3	4.9	3.9	0.8	0.8	C40-C41	
Melanoma of Skin	14	0	-	-	-	-	0.3	-	0.3	0.4	0.8	-	-	0.7	0.8	2.3	3.3	3.9	0.4	0.4	C43	
Other Skin	94	0	-	-	-	0.3	1.3	0.7	-	-	-	4.8	2.7	8.7	8.1	9.4	18	38.8	2.7	2.7	C44	
Mesothelioma	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C45	
Kaposi sarcoma	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C46	
Connective, Soft tissue	38	0	0.8	-	-	1	1.3	-	0.7	0.4	0.4	1.8	2.1	0.7	2.7	3.5	9.8	5.2	1.1	1.1	C47-C49	
Breast	1699	0	-	-	-	2.7	6.3	17.7	36.5	84.8	129	153.3	159.9	180.7	136.8	140.9	147.7	48.0	48.0	C50		
Vulva	11	0	-	-	-	-	0.3	-	-	-	-	0.9	0.5	0.7	0.9	-	6.8	1.3	0.3	0.3	C51	
Vagina	11	0	-	-	-	-	-	-	-	0.4	0.4	0.5	-	-	1.8	2.3	-	5.2	0.3	0.3	C52	
Cervix Uteri	418	0	-	-	-	-	0.7	1.3	5.7	14.9	18.1	18.3	28.7	41.4	40.2	50.3	50.8	45.7	11.8	11.8	C53	
Corpus Uteri	237	0	-	-	-	-	-	0.7	0.7	4.1	6.2	11	28.1	23.4	31	25.7	32.8	26.1	6.7	6.9	C54	
Uterus unsp.	17	0	-	-	-	-	-	-	-	0.4	-	-	1.1	2.8	5.5	-	4.9	1.3	0.5	0.5	C55	
Ovary	280	0	-	-	1	1.7	2	2.7	1.3	7.4	8.7	23.8	27.6	26.9	20.1	24.6	21.3	18.3	7.9	7.9	C56	
Other Female Genital	3	0	-	-	-	-	-	0.3	-	0.4	0.4	-	-	0.7	0.9	-	1.6	-	0.1	0.1	C57	
Placenta	3	0	-	-	-	-	-	-	-	0.4	-	-	-	-	-	-	-	-	-	0.1	0.1	C58
Kidney	63	0	-	0.3	-	-	0.3	-	0.3	1.5	0.8	2.7	3.7	4.8	11	10.5	9.8	8.1	1.8	1.9	C59	
Renal Pelvis	1	0	-	-	-	-	-	-	-	-	0.4	-	-	-	-	-	-	0	0.0	0.0	C65	
Ureter	5	0	-	-	-	-	-	-	-	-	-	-	-	-	0.9	1.2	-	3.9	0.1	0.1	C66	
Bladder	57	0	-	-	-	-	-	-	-	0.7	-	2.7	3.7	-	7.3	11.7	14.7	19.6	1.6	1.7	C67	
Other Urinary organs	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C68	
Eye	7	0	0.6	-	0.3	-	-	-	-	-	-	-	0.5	-	-	2.3	-	1.3	0.0	0.2	C69	
Brain, Nervous system	73	0	1.3	2	1	1.7	1.7	1	0.7	2.2	1.2	2.3	3.2	3.4	4.8	7	8.2	3.9	2.1	2.1	C70-C72	
Thyroid	94	0	-	-	-	1	3	2.7	2.7	4.5	2.5	4.8	2.7	6.9	6.4	9.4	8.6	5.2	2.7	2.8	C73	
Adrenal gland	3	0	0.8	-	-	-	-	0.3	-	-	-	-	-	-	-	-	-	-	0.1	0.1	C74	
Other Endocrine	3	0	-	-	-	-	-	-	-	-	-	0.5	-	0.7	0.9	-	-	-	0.1	0.1	C75	
Hodgkin disease	12	0	-	-	0.3	1	0.3	1	-	-	0.4	0.5	-	0.7	-	-	1.6	-	0.3	0.3	C81	
Non-Hodgkin lymphoma	132	0	-	1.4	0.7	0.7	1.3	0.7	1	4.5	4.8	3.2	8.5	9	11	15.2	27.9	17	3.7	3.8	C82-C85/C86	
Immunoproliferative dis.	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C88	
Multiple Myeloma	24	0	-	-	-	-	-	-	-	-	-	-	1.8	1.4	3.7	7	9.8	3.8	0.7	0.8	C90	
Lymphoid Leukaemia	43	0	4.5	2	1	1.4	0.7	0.3	0.3	0.4	0.8	0.9	0.5	-	1.8	-	3.3	1.3	1.2	1.4	C91	
Myeloid Leukemia	102	0	1.3	1.4	0.7	1.3	1.7	1.3	1.3	3	2.9	6.4	5.3	9	8.2	5.8	4.9	8.5	2.9	2.9	C92-C94	
Leukemia unsp.	18	0	0.6	-	0.3	0.7	-	-	-	-	1.2	0.5	-	0.7	-	2.3	3.3	1.3	0.5	0.5	C95	
Other & unspecified	134	0	0.8	-	-	0.7	1.7	1.7	1.3	3.4	1.7	7.3	6.9	10.3	14.8	15.2	18	24.8	3.8	3.8	Other	
All sites Total	5225	0	11	8	7	14	22	27	42	99	183	272	378	441	529	593	778	870	147.7	150.9	All	
All sites but C44	5131	0	11	8	7	14	20	26	42	98	183	267	375	431	520	583	760	834	145.0	148.1	Not C44	

Appendix 26 : NUMBER OF NEW CASES BY SITES AND AGE GROUP, MALAY RESIDENTS, MALES, PENANG, 2004-2008

Site	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	% of Total	ICD (10th)
Lip	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.20%	C00
Tongue	6	0	0	0	0	0	0	0	0	0	2	0	2	0	1	2	0	1	0.80%	C01-C02
Mouth	5	0	0	0	0	0	0	0	0	0	0	0	1	0	3	1	0	0	0.50%	C03-C06
Salivary glands	4	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0.40%	C07-C08
Tonsil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C08
Other Oropharynx	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.20%	C09
Nasopharynx	32	0	0	0	1	0	0	0	1	2	4	4	6	4	2	0	2	5	3.20%	C10
Hypopharynx	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.30%	C11
Pharynx unsp. spec.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C12-C13
Oesophagus	15	0	0	0	0	0	0	0	0	0	0	0	1	2	6	2	0	3	1.50%	C14
Stomach	36	0	0	0	0	0	0	1	1	1	1	5	4	2	6	4	3	7	3.60%	C15
Small Intestine	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C16
Colon	58	0	0	0	0	0	0	0	1	3	5	1	0	8	10	8	12	8	5.80%	C17
Rectum	88	0	0	0	0	0	0	1	3	1	2	8	5	9	13	10	9	7	8.80%	C18
Anus	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0.60%	C19-C20
Liver	48	0	1	1	1	0	1	1	4	2	1	3	8	7	5	6	1	8	4.80%	C21
Gallbladder etc.	8	0	0	0	0	0	0	0	0	0	0	0	1	1	3	1	1	1	0.90%	C22
Pancreas	14	0	0	0	0	0	0	0	0	0	4	2	2	1	1	2	1	1	1.40%	C23-C24
Nose, sinuses etc.	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	2	0.50%	C25
Larynx	16	0	0	0	0	0	0	0	0	0	0	0	0	3	2	4	4	1	1.80%	C26-C27
Trachea, Bronchus, Lung	174	0	0	0	0	0	1	2	1	3	8	14	16	32	22	28	19	29	17.40%	C28
Other Thoracic organs	6	0	0	0	0	1	3	0	0	1	0	0	0	0	0	1	0	0	0.60%	C29-C30
Bone	12	0	1	1	1	0	0	1	2	1	0	0	0	2	2	0	0	0	1.20%	C31-C32
Melanoma of Skin	2	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0.20%	C33-C34
Other Skin	19	0	0	0	1	1	0	1	2	1	2	2	1	0	3	4	1	2	1.90%	C35-C36
Mesothelioma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C37-C38
Kaposi sarcoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C39-C40
Connective, Soft tissue	21	0	2	0	1	2	1	2	1	1	2	4	0	1	1	2	0	1	2.10%	C41-C42
Breast	4	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	1	0	0.40%	C43
Penis	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.20%	C44
Prostate	62	0	0	0	0	0	0	0	0	0	0	2	1	4	9	13	13	20	6.20%	C45
Testis	18	0	3	0	3	1	3	3	2	1	0	0	0	0	0	0	2	0	1.80%	C46
Other male genital	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C47-C48
Kidney	16	0	1	2	0	0	0	1	0	0	2	0	1	2	3	2	2	0	1.60%	C49
Renal Pelvis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C50
Ureter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C51
Bladder	58	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	15	5.80%	C52
Other Urinary organs	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C53
Eye	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C54
Brain, Nervous system	43	0	6	2	3	1	3	1	4	1	3	2	7	4	1	1	1	3	4.30%	C55
Thyroid	18	0	0	0	0	1	1	1	0	3	1	2	2	1	1	4	1	0	1.80%	C56
Adrenal gland	2	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.20%	C57
Other Endocrine	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C58
Hodgkin disease	22	0	0	2	1	3	2	1	1	4	1	1	3	2	0	0	0	1	2.20%	C59
Non-Hodgkin lymphoma	53	0	1	5	1	3	0	0	3	2	3	11	3	5	7	3	3	3	5.30%	C60
Immunoproliferative dis.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C61
Multiple Myeloma	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.60%	C62
Lymphoid Leukaemia	31	0	4	9	1	0	5	2	2	1	3	1	2	1	0	1	0	0	3.10%	C63
Myeloid Leukaemia	39	0	1	3	0	3	4	3	4	3	2	0	5	1	3	1	3	3	3.90%	C64
Leukaemia unsp. spec.	13	0	7	3	0	0	0	0	0	0	0	1	0	0	1	0	0	1	1.30%	C65
Other & unspecified	38	0	1	0	1	1	0	1	1	0	3	5	5	5	0	8	4	3	3.80%	C66
All sites Total	1000	0	30	28	15	18	28	24	34	36	54	75	94	102	115	122	90	132	100.00%	All
All sites but C44	981	0	30	28	14	18	28	23	34	35	52	74	93	102	112	118	89	130	98.10%	Not C44

Appendix 27 : NUMBER OF NEW CASES BY SITES AND AGE GROUP, MALAY RESIDENTS, FEMALES, PENANG, 2004-2008

Sites	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	% of Total	ICD (10th)
Lip	2	:	:	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0.20%	C00
Tongue	5	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0.40%	C01-C02
Mouth	1	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.10%	C03-C06
Salivary glands	4	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C07-C08
Tonsil	2	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C09
Other Oropharynx	1	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C10
Nasopharynx	21	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1.70%	C11
Hypopharynx	1	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C12-C13
Pharynx unsp.	0	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C14
Oesophagus	11	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.90%	C15
Stomach	22	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.80%	C16
Small Intestine	2	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C17
Colon	63	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.20%	C18
Rectum	52	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.30%	C18-C20
Anus	3	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C21
Liver	25	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.10%	C22
Gallbladder etc.	5	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C23-C24
Pancreas	17	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.40%	C25
Nose, sinuses etc.	2	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C30-C31
Larynx	0	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C32
Trachea, Bronchus, Lung	51	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.20%	C33-C34
Other Thoracic organs	4	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C37-C38
Bone	7	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C40-C41
Melanoma of Skin	5	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C43
Other Skin	18	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.50%	C44
Mesothelioma	0	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C45
Kaposi sarcoma	0	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C46
Connective, Soft tissue	16	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.30%	C47-C49
Breast	392	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.30%	C50
Vulva	4	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C51
Vagina	3	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C52
Cervix Uteri	89	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.30%	C53
Corpus Uteri	65	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.30%	C54
Uterus unsp.	87	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.20%	C55
Ovary	3	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C56
Other Female Genital	2	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C57
Placenta	1	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C58
Kidney	8	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.70%	C59
Renal Pelvis	1	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C60
Ureter	0	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C61
Bladder	15	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C62
Other Urinary organs	1	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C63
Eye	3	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C64
Brain, Nervous system	26	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.10%	C65
Thyroid	25	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.00%	C66
Adrenal gland	3	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C67
Other Endocrine	0	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C68
Hodgkin disease	3	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C69
Non-Hodgkin lymphoma	42	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.50%	C70-C72
Immunoproliferative dis.	0	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C73
Multiple Myeloma	8	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.70%	C74
Lymphoid Leukaemia	17	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.40%	C75
Myeloid Leukaemia	36	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.10%	C76
Leukaemia unsp.	3	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C77
Other & unspecified	35	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.90%	C78
All sites Total	1215	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00%	All
All sites but C44	1197	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98.50%	Not C44

Appendix 28 : CANCER INCIDENCE, MALAY RESIDENTS, MALES, PENANG, 2004-2008

Site	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Crude Rate	ASR World	ICD (10th)
Lip	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.4	0.1	0.3	C00
Tongue	8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.7	0.5	0.9	C01-C02
Mouth	5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.6	C03-C08
Salivary glands	4	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.4	C07-C08
Tonsil	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C09
Other Oropharynx	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.2	C10
Nasopharynx	32	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	3.1	C11
Hypopharynx	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.4	C12-C13
Pharynx unsp.	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C14
Oesophagus	15	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C15
Stomach	38	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	1.9	C16
Small Intestine	4	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.4	4.1	C17
Colon	58	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.4	C18
Rectum	68	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.8	8.8	C19-C20
Anus	6	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.4	7.9	C21
Liver	48	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	0.7	C22
Gallbladder etc.	9	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1	4.8	C23-C24
Pancreas	14	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.6	1.1	C25
Noise, sinuses etc.	5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.9	1.4	C26
Larynx	18	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.7	C27
Trachea, Bronchus, Lung	174	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	2.0	C28
Other Thoracic organs	8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.4	20.6	C29-C34
Bone	12	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	0.4	C35-C38
Melanoma of Skin	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8	0.8	C39-C41
Other Skin	19	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	C42
Mesothelioma	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	2.0	C43
Kaposi sarcoma	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.4	1.2	C44
Connective, Soft tissue	21	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C45
Breast	4	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C46
Prostate	62	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.7	1.7	C47-C48
Testis	18	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.3	C49
Other male genital	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	C50
Kidney	18	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1	8.8	C51
Renal Pelvis	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	1.2	C52
Ureter	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	C53
Bladder	58	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	1.8	C54
Other Urinary organs	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	C55
Eye	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C56
Brain, Nervous system	43	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.8	7.2	C57
Thyroid	18	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	C58
Adrenal gland	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C59
Other Endocrine	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8	3.4	C60-C72
Hodgkin disease	22	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	1.7	C73
Non-Hodgkin lymphoma	53	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.2	C74
Immunoproliferative dis.	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.2	C75
Multiple Myeloma	6	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	1.5	C82-C85/C86
Lymphoid Leukemia	31	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.5	4.9	C86
Myeloid Leukemia	39	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C87
Leukemia unsp.	13	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	0.7	C88
Other & unspecified	38	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	1.8	C89
All sites Total	1000	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85.3	105.8	All
All sites but C44	981	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84.1	103.5	Nd C44

Appendix 29 : CANCER INCIDENCE, MALAY RESIDENTS, FEMALES, PENANG, 2004-2008

Site	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Crude Rate	ASR World	ICD (10th)
Lip	2	0	-	-	0.7	-	-	-	-	-	-	-	1.3	1.6	-	-	5.8	-	0.1	0.2	C00
Tongue	5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.1	5.1	0.3	0.5	C01-C02
Mouth	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.1	0.1	0.1	C03-C08
Salivary glands	4	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	0.3	0.3	C07-C08
Tonsil	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	0.1	0.2	C09
Other Oropharynx	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	C10
Nasopharynx	21	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	C11
Hypopharynx	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	C12-C13
Pharynx unsp.	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C14
Oesophagus	11	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C15
Stomach	22	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7	1.2	C16
Small intestine	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.2	C17
Cecum	83	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.2	C18
Rectum	52	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0	5.8	C18
Anus	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	4.9	C19-C20
Liver	25	0	0.8	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.3	C21
Gallbladder etc.	5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	2.3	C22
Pancreas	17	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.5	C23-C24
Nose, sinuses etc.	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1	1.8	C25
Larynx	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.2	C30-C31
Trachea, Bronchus, Lung	51	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C32
Other Thoracic organs	4	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	4.7	C33-C34
Bone	7	0	0.6	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.3	C37-C38
Melanoma of Skin	5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	0.4	C40-C41
Mesothelioma	18	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.4	C43
Kaposi sarcoma	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	1.5	C44
Connective, Soft tissue	16	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C45
Breast	392	0	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C48
Vulva	4	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.1	31.0	C50
Vagina	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.4	C51
Cervix Uteri	89	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.2	C52
Corpus Uteri	85	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.7	7.4	C53
Uterus unsp.	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.2	5.8	C54
Ovary	87	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.3	C55
Other Female Genital	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	6.8	C56
Pituitary	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.2	C57
Kidney	8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	C58
Renal Pelvis	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	0.8	C64
Ureter	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	C65
Bladder	15	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C68
Other Urinary organs	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	1.8	C87
Eye	3	0	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	C69
Brain, Nervous system	28	0	0.8	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.2	C89
Thyroid	25	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	1.8	C70-C72
Adrenal gland	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	1.8	C73
Other Endocrine	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.2	C74
Hodgkin disease	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C75
Non-Hodgkin lymphoma	42	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.2	C81
Immunoproliferative dis.	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	3.5	C82-C85/C86
Multiple Myeloma	9	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C88
Lymphoid Leukaemia	17	0	4.1	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8	0.9	C90
Myeloid Leukaemia	38	0	1.2	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1	1.1	C91
Leukaemia unsp.	3	0	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.4	2.7	C92-C94
Other & unspecified	35	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.2	C95
All sites Total	1215	0	11	6	6	16	18	23	28	67	123	223	284	281	338	358	450	384	77.8	100.9	All
All sites but C44	1197	0	11	6	6	15	16	22	29	67	123	218	283	287	332	354	439	374	76.8	98.4	Nd C44

Appendix 30 : NUMBER OF NEW CASES BY SITES AND AGE GROUP, CHINESE RESIDENTS, MALES, PENANG, 2004-2008

Site	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	% of Total	ICD (10th)
Lip	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00%	C00
Tongue	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.80%	C01-C02
Mouth	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.60%	C03-C06
Salivary glands	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.40%	C07-C08
Tonsil	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C09
Other Oropharynx	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C10
Nasopharynx	251	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	8.10%	C11
Hypopharynx	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.40%	C12-C13
Pharynx unspc.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C14
Oesophagus	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1.30%	C15
Stomach	172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	5.50%	C16
Small Intestine	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.30%	C17
Colon	301	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	9.70%	C18
Rectum	219	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	7.10%	C19-C20
Anus	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.10%	C21
Liver	203	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	6.50%	C22
Gallbladder etc.	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.50%	C23-C24
Pancreas	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2.60%	C25
Nose, sinuses etc.	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.40%	C30-C31
Larynx	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	2.20%	C32
Trachea, Bronchus, Lung	543	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	17.50%	C33-C34
Other Thoracic organs	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.50%	C37-C38
Bone	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1.10%	C40-C41
Melanoma of Skin	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.20%	C43
Other Skin	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	3.40%	C44
Mesothelioma	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C45
Kaposi sarcoma	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C46
Connective, Soft tissue	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.70%	C47-C48
Breast	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.30%	C50
Penis	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.20%	C60
Prostate	285	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	9.20%	C61
Testis	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.40%	C62
Other male genital	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C63
Kidney	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	2.60%	C64
Renal Pelvis	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.20%	C65
Ureter	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.20%	C66
Bladder	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	3.60%	C67
Other Urinary organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C68
Eye	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.10%	C69
Brain, Nervous system	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1.50%	C70-C72
Thyroid	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.50%	C73
Adrenal gland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C74
Other Endocrine	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C75
Hodgkin disease	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.40%	C81
Non-Hodgkin lymphoma	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	3.70%	C82-C85,C98
Immunoproliferative dis.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C88
Multiple Myeloma	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C90
Lymphoid Leukaemia	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.90%	C91
Myeloid Leukaemia	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1.20%	C92-C94
Leukaemia unspc.	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.30%	C95
Other & unspecified	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	3.80%	Other
All sites Total	3103	0	19	6	18	18	21	31	44	83	124	184	278	367	409	491	437	573	100.00%	A0
All sites but C44	2888	0	19	6	18	18	20	28	43	81	121	181	270	355	400	470	417	551	98.60%	Not C44

Appendix 31 : NUMBER OF NEW CASES BY SITES AND AGE GROUP, CHINESE RESIDENTS, FEMALES, PENANG, 2004-2008

Site	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	% of Total	ICD (10th)
Lip	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00%	C00
Tongue	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.40%	C01-C02
Mouth	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.20%	C03-C06
Salivary glands	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.30%	C07-C08
Tonsil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C09
Other Oropharynx	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C10
Nasopharynx	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1.80%	C11
Hypopharynx	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C12-C13
Pharynx unspc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C14
Oesophagus	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0.50%	C15
Stomach	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	3.90%	C16
Small Intestine	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.20%	C17
Colon	320	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101	9.30%	C18
Rectum	166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	4.80%	C19-C20
Anus	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.20%	C21
Liver	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	2.40%	C22
Gallbladder etc.	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0.80%	C23-C24
Pancreas	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	1.50%	C25
Nose, sinuses etc.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.10%	C30-C31
Larynx	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.10%	C32
Trachea, Bronchus, Lung	212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	6.20%	C33-C34
Other Thoracic organs	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.40%	C37-C38
Bone	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.60%	C40-C41
Melanoma of Skin	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.20%	C43
Other Skin	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	2.10%	C44
Mesothelioma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C45
Kaposi sarcoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C46
Connective, Soft tissue	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.60%	C47, C48
Breast	1115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87	32.40%	C50
Vulva	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.10%	C51
Vagina	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.20%	C52
Cervix Uteri	284	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	8.30%	C53
Corpus Uteri	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	3.60%	C54
Uterus unspc.	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C55
Ovary	153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	4.50%	C56
Other Female Genital	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C57
Placenta	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C58
Kidney	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1.40%	C64
Renal Pelvis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C65
Ureter	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.10%	C66
Bladder	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	1.10%	C67
Other Urinary organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C68
Eye	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C69
Brain, Nervous system	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1.30%	C70-C72
Thyroid	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1.70%	C73
Adrenal gland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C74
Other Endocrine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C75
Hodgkin disease	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C81
Non-Hodgkin lymphoma	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	2.40%	C82-C85, C86
Immunoproliferative dia.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C88
Multiple Myeloma	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.40%	C90
Lymphoid Leukaemia	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.60%	C91
Myeloid Leukaemia	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1.50%	C92-C94
Leukaemia unspc.	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.30%	C95
Other & unspecified	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	2.40%	Other
All sites Total	3438	0	13	12	11	15	30	37	73	161	243	345	427	431	395	352	348	545	100.00%	All
All sites but C44	3366	0	13	12	11	15	29	36	73	180	243	338	424	419	388	345	340	520	87.80%	Not C44

Appendix 32 : CANCER INCIDENCE, CHINESE RESIDENTS, MALES, PENANG, 2004-2008

Site	All Ages	Age Unk.	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75+	Crude Rate	ASR World	ICD (10th)
Up	1 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3 :	0.1 :	0.1 : C00	
Tongue	18 : 0 :	-	-	-	0.8 :	-	-	1.6 :	-	-	-	0.9 :	1	3.6 :	3.1 :	4.3 :	10 :	8.8 :	1.1 :	1.1 : C01-C02	
Mouth	20 : 0 :	-	-	-	-	-	-	-	-	0.8 :	-	1.7 :	1	6 :	3.1 :	6.5 :	3.3 :	16.4 :	1.3 :	1.2 : C03-C06	
Salivary glands	11 : 0 :	-	-	-	-	-	-	-	0.8 :	0.8 :	-	0.9 :	1.8 :	2.4 :	1.5 :	4.3 :	-	3.3 :	0.7 :	0.6 : C07-C08	
Tonsil	10 : 0 :	-	-	-	-	-	-	-	-	-	-	-	2.9 :	2.4 :	6.2 :	2.2 :	-	-	0.8 :	0.6 : C09	
Other Oropharynx	5 : 0 :	-	-	-	-	-	-	-	-	-	-	-	1	-	1.5 :	4.3 :	3.3 :	-	0.3 :	0.3 : C10	
Nasopharynx	251 : 0 :	-	-	-	0.8 :	4.8 :	10.4 :	13.6 :	29.8 :	28.7 :	40.8 :	44.3 :	38.9 :	54.3 :	26.7 :	29.5 :	29.5 :	15.8 :	13.4 : C11		
Hypopharynx	12 : 0 :	-	-	-	-	-	-	-	0.9 :	0.9 :	1.9 :	2.4 :	1.5 :	4.3 :	10 :	3.3 :	0.8 :	0.7 : C12-C13			
Pharynx unsp. spec.	2 : 0 :	-	-	-	-	-	-	-	-	0.8 :	-	-	1.2 :	-	-	-	-	-	0.1 :	0.1 : C14	
Oesophagus	41 : 0 :	-	-	-	0.8 :	-	0.8 :	-	0.8 :	-	0.8 :	-	3.8 :	6 :	9.2 :	26.1 :	16.7 :	19.7 :	2.8 :	2.5 : C15	
Stomach	172 : 0 :	-	-	-	-	0.8 :	0.8 :	-	0.8 :	3.2 :	2.5 :	9.8 :	10.7 :	20.4 :	41.5 :	54.3 :	98.6 :	140.9 :	10.8 :	10.4 : C16	
Small Intestine	9 : 0 :	-	-	-	-	-	-	-	0.8 :	-	-	-	1	-	6.2 :	2.2 :	-	6.8 :	0.6 :	0.5 : C17	
Colon	301 : 0 :	-	-	1.6 :	-	-	2.4 :	2.4 :	4.8 :	7.4 :	12.2 :	30.1 :	26.7 :	60 :	113 :	168.9 :	219.8 :	18.9 :	18.2 : C18		
Rectum	219 : 0 :	-	-	-	-	-	-	-	-	2.4 :	8.2 :	13.9 :	22.3 :	41.9 :	49.2 :	89.5 :	90 :	134.4 :	13.7 :	12.8 : C19-C20	
Anus	2 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2 :	3.3 :	-	0.1 :	0.1 : C21	
Liver	203 : 0 :	0.9 :	-	-	-	-	-	-	2.4 :	4 :	6.6 :	9.8 :	30.1 :	34.7 :	53.8 :	85.2 :	76.8 :	88.5 :	12.7 :	11.8 : C22	
Gallbladder etc.	16 : 0 :	-	-	-	-	-	-	0.8 :	-	-	1.6 :	-	-	2.4 :	6.2 :	10.8 :	6.7 :	-	1.0 :	1.0 : C23-C24	
Pancreas	80 : 0 :	-	-	-	-	-	-	-	-	1.6 :	0.8 :	7.8 :	4.9 :	9.8 :	20 :	39.1 :	10 :	68.6 :	5.0 :	4.8 : C25	
Nose, sinuses etc.	13 : 0 :	-	-	-	-	-	-	-	-	0.8 :	1.8 :	1.7 :	1.9 :	-	4.8 :	2.2 :	-	6.6 :	0.8 :	0.7 : C30-C31	
Larynx	68 : 0 :	-	-	-	-	-	-	-	-	0.8 :	2.5 :	1.7 :	3.9 :	7.2 :	20 :	30.4 :	40 :	42.6 :	4.3 :	4.1 : C32	
Trachea, Bronchus, Lung	543 : 0 :	-	-	-	0.8 :	-	-	-	-	8.4 :	9 :	23.5 :	40.8 :	91 :	112.3 :	195.8 :	356.5 :	354 :	34.1 :	32.7 : C33-C34	
Other Thoracic organs	17 : 0 :	-	-	-	0.8 :	1.8 :	-	0.8 :	0.8 :	0.8 :	0.9 :	1.9 :	2.4 :	6.2 :	2.2 :	3.3 :	3.3 :	1.1 :	1.0 : C37-C38		
Bone	35 : 0 :	0.9 :	-	0.8 :	1.6 :	4 :	0.8 :	1.6 :	0.8 :	4.1 :	1.7 :	2.9 :	3.6 :	3.1 :	4.3 :	13.3 :	3.3 :	2.2 :	2.1 : C40-C41		
Melanoma of Skin	6 : 0 :	-	-	0.8 :	-	-	-	-	-	-	-	-	1	3.6 :	-	-	3.3 :	-	0.4 :	0.3 : C43	
Other Skin	105 : 0 :	-	-	-	-	0.8 :	2.4 :	0.8 :	0.8 :	1.8 :	2.5 :	2.8 :	7.8 :	14.4 :	13.8 :	45.8 :	68.6 :	72.1 :	6.8 :	8.4 : C44	
Mesothelioma	1 : 0 :	-	-	-	-	-	-	-	-	0.8 :	-	-	1	-	-	-	-	-	0.1 :	0.0 : C45	
Kaposi sarcoma	3 : 0 :	-	-	-	-	-	-	0.8 :	-	0.8 :	0.8 :	-	-	-	-	-	-	-	0.2 :	0.2 : C48	
Connective, Soft tissue	22 : 0 :	0.7 :	-	0.8 :	-	0.8 :	-	0.8 :	-	0.8 :	0.8 :	4.9 :	2.4 :	6.2 :	4.3 :	-	13.1 :	1.4 :	1.3 : C47-C49		
Breast	9 : 0 :	-	-	-	-	-	-	-	-	-	-	0.9 :	-	2.4 :	1.5 :	4.3 :	6.7 :	3.3 :	0.6 :	0.5 : C50	
Prostate	7 : 0 :	-	-	-	-	-	-	-	-	-	-	-	1	-	1.5 :	2.2 :	6.7 :	6.8 :	0.4 :	0.4 : C60	
Testis	285 : 0 :	-	-	-	-	-	-	-	-	-	0.8 :	6.8 :	16.8 :	52.3 :	117.3 :	228.8 :	347.4 :	17.9 :	18.2 : C61		
Other male genital	12 : 0 :	0.9 :	-	0.8 :	1.6 :	-	0.8 :	-	0.8 :	2.4 :	0.8 :	-	1	1.2 :	-	-	-	3.3 :	0.8 :	0.7 : C62	
Kidney	1 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5 :	-	-	-	0.1 :	0.1 : C63	
Renal Pelvis	81 : 0 :	1.8 :	-	-	-	-	-	-	0.8 :	4.8 :	4.1 :	9.8 :	6.8 :	18.8 :	7.7 :	19.8 :	33.3 :	36.1 :	5.1 :	4.7 : C64	
Ureter	5 : 0 :	-	-	-	-	-	-	-	-	-	-	0.8 :	-	-	-	2.2 :	-	9.8 :	0.3 :	0.3 : C65	
Bladder	5 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5 :	2.2 :	3.3 :	6.8 :	0.3 :	0.3 : C66	
Other Urinary organs	113 : 0 :	-	-	0.8 :	-	-	-	-	1.8 :	1.6 :	2.5 :	7 :	3.8 :	18 :	21.5 :	41.3 :	83.3 :	85.2 :	7.1 :	6.8 : C67	
Eye	0 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0 :	0.0 : C68	
Brain, Nervous system	3 : 0 :	0.9 :	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6 :	0.2 :	0.2 : C69	
Thyroid	46 : 0 :	2.7 :	1.6 :	1.6 :	1.8 :	1.6 :	1.8 :	1.6 :	2.4 :	0.8 :	3.3 :	3.5 :	4.9 :	7.2 :	4.6 :	10.9 :	-	9.8 :	2.9 :	2.8 : C70-C72	
Adrenal gland	17 : 0 :	-	0.8 :	-	0.8 :	-	0.8 :	-	2.4 :	0.8 :	0.8 :	1.7 :	-	-	3.1 :	4.3 :	3.3 :	6.6 :	1.1 :	1.0 : C73	
Other Endocrine	3 : 0 :	0.9 :	-	-	-	-	-	-	-	-	-	0.9 :	-	-	1.5 :	-	-	-	0.2 :	0.2 : C74	
Hodgkin disease	4 : 0 :	-	-	-	-	0.8 :	0.8 :	-	-	0.8 :	-	-	-	1.2 :	-	-	-	-	0.3 :	0.2 : C75	
Non-Hodgkin lymphoma	12 : 0 :	-	-	1.8 :	-	-	-	-	-	0.8 :	-	1.7 :	1	3.6 :	-	-	3.3 :	6.8 :	0.8 :	0.7 : C81	
Immunoproliferative dia.	115 : 0 :	0.9 :	1.4 :	0.8 :	2.4 :	0.8 :	0.8 :	1.6 :	1.8 :	4.8 :	3.3 :	6.1 :	10.7 :	19.2 :	20 :	52.2 :	26.7 :	45.9 :	7.2 :	6.8 : C82-C85;C86	
Multiple Myeloma	0 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0 :	0.0 : C86	
Lymphoid Leukemia	13 : 0 :	-	-	-	-	-	-	-	-	-	-	0.9 :	1	1.2 :	7.7 :	4.3 :	10 :	-	0.8 :	0.8 : C90	
Myeloid Leukemia	28 : 0 :	2.7 :	4 :	0.8 :	-	0.8 :	-	2.4 :	3.2 :	0.8 :	-	-	1.9 :	1.2 :	1.5 :	4.3 :	13.3 :	-	1.8 :	1.8 : C91	
Leukemia unsp. spec.	37 : 0 :	0.9 :	0.8 :	1.8 :	0.8 :	4 :	0.8 :	4 :	0.8 :	1.8 :	3.3 :	0.9 :	3.8 :	3.6 :	3.1 :	13 :	13.3 :	-	2.3 :	2.2 : C92-C94	
Other & unspecified	8 : 0 :	2.7 :	-	0.8 :	-	-	-	-	-	-	-	-	1	-	-	4.3 :	-	3.3 :	0.5 :	0.6 : C95	
All sites Total	113 : 0 :	0.9 :	-	1.6 :	0.8 :	-	0.8 :	-	0.8 :	3.2 :	4.1 :	8.1 :	8.8 :	16.8 :	33.8 :	36.9 :	36.7 :	62.3 :	7.1 :	6.8 : Other	
All sites but C44	3103 : 0 :	17 :	4 :	15 :	15 :	17 :	25 :	35 :	56 :	102 :	160 :	260 :	439 :	828 :	1067 :	1456 :	1878 :	184.8 :	185.1 : All		
	2898 : 0 :	17 :	4 :	15 :	15 :	16 :	22 :	34 :	65 :	100 :	157 :	262 :	425 :	815 :	1021 :	1389 :	1806 :	168.2 :	178.6 : Not C44		

Appendix 33 : CANCER INCIDENCE, CHINESE RESIDENTS, FEMALES, PENANG, 2004-2008

Site	All Ages	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Gross Rate	ASR World	ICD 10th
Up	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C00
Tongue	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C00
Mouth	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C01-C02
Salivary gland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C03-C08
Tonsil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C03-C08
Other Oropharynx	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C03-C08
Nasopharynx	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C09
Hypopharynx	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C10
Pharynx unsp.	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C11
Oesophagus	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C12-C13
Stomach	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C14
Small Intestine	320	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C15
Colon	166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C16
Rectum	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C17
Anus	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C18
Liver	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C19-C20
Gallbladder etc.	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C21
Pancreas	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C22
Nose, sinuses etc.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C23
Larynx	212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C24
Trachea, Bronchus, Lung	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C25
Other Thoracic organs	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C26
Bone	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C27
Melanoma of Skin	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C28
Other Skin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C29
Mesothelioma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C30-C31
Kaposi sarcoma	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C32
Connective, Soft tissue	1115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C33-C34
Breast	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C35
Vagina	284	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C36
Cervix Uteri	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C37-C38
Corpus Uteri	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C39
Uterus unsp.	153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C40-C41
Ovary	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C42
Other Female Genital	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C43
Pleura	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C44
Kidney	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C45
Renal Pelvis	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C46
Ureter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C47
Bladder	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C48
Other Urinary organs	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C49
Eye	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C50
Brain, Nervous system	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C51
Thyroid	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C52
Adrenal gland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C53
Other Endocrine	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C54
Hodgkin disease	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C55
Non-Hodgkin lymphoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C56
Immunoproliferative dis.	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C57
Multiple Myeloma	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C58
Lymphoid Leukaemia	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C59
Myeloid Leukaemia	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C60
Leukaemia unsp.	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C61
Other & unspecified	3438	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C62-C65
All sites Total	3368	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C66
All sites but C44	3368	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	C67

Appendix 34 : NUMBER OF NEW CASES BY SITES AND AGE GROUP, INDIAN RESIDENTS, MALES, PENANG, 2004-2008

Site	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	% of Total	ICD (10th)
Lip	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C00
Tongue	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.80%	C01-C02
Mouth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.40%	C03-C08
Salivary glands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C07-C08
Tonsil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C09
Other Oropharynx	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C10
Nasopharynx	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.50%	C11
Hypopharynx	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.10%	C12-C13
Pharynx unspc.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.60%	C14
Oesophagus	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.30%	C15
Stomach	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.80%	C16
Small intestine	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C17
Colon	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10.90%	C18
Rectum	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.50%	C19-C20
Anus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C21
Liver	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.30%	C22
Gallbladder etc.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.90%	C23-C24
Pancreas	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.80%	C25
Nose, sinuses etc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C30-C31
Larynx	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.50%	C32
Trachea, Bronchus, Lung	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.30%	C33-C34
Other Thoracic organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C37-C38
Bone	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.50%	C40-C41
Melanoma of Skin	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C43
Other Skin	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.40%	C44
Mesothelioma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C45
Kaposi's sarcoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C46
Connective, Soft tissue	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.60%	C47-C49
Breast	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C50
Penis	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.60%	C60
Prostate	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.90%	C61
Testis	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.60%	C62
Other male genital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C63
Kidney	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.50%	C64
Renal Pelvis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C65
Ureter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C66
Bladder	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.80%	C67
Other Urinary organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C68
Eye	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C69
Brain, Nervous system	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.50%	C70-C72
Thyroid	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C73
Adrenal gland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C74
Other Endocrine	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C75
Hodgkin disease	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.80%	C81
Non-Hodgkin lymphoma	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.20%	C82-C85;C86
Immunoproliferative dis.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C88
Multiple Myeloma	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C90
Lymphoid Leukaemia	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.80%	C91
Myeloid Leukaemia	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.10%	C92-C94
Leukaemia unspc.	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.50%	C95
Other & unspecified	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.80%	Other
All sites Total	330	0	4	6	5	5	0	3	4	11	17	34	35	38	41	47	37	43	100.00%	All
All sites but C44	322	0	4	6	5	5	0	3	3	11	15	34	32	38	40	47	36	43	97.80%	Not C44

Appendix 35 : NUMBER OF NEW CASES BY SITES AND AGE GROUP, INDIAN RESIDENTS, FEMALES, PENANG, 2004-2008

Site	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	% of Total	ICD (10th)
Lip	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C00
Tongue	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.90%	C01-C02
Mouth	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.80%	C03-C06
Salivary glands	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C07-C08
Tonsil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.70%	C09
Nasopharynx	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C10
Hypopharynx	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.70%	C11
Pharynx unsp.	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.90%	C12-C13
Oesophagus	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C14
Stomach	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.60%	C15
Small Intestine	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C17
Colon	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.80%	C18
Rectum	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.90%	C19-C20
Anus	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C21
Liver	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.40%	C22
Gallbladder etc.	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C23-C24
Pancreas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.10%	C25
Nose, sinuses etc.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C30-C31
Larynx	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.60%	C32
Trachea, Bronchus, Lung	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.00%	C33-C34
Other Thoracic organs	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C37-C38
Bone	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.60%	C40-C41
Melanoma of Skin	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C43
Other Skin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C44
Mesothelioma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C45
Kaposi sarcoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C46
Connective, Soft tissue	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C47-C48
Breast	182	0	0	0	0	0	0	0	6	13	17	28	42	20	23	15	9	9	34.10%	C50
Vulva	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C51
Vagina	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C52
Cervix Uteri	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.30%	C53
Corpus Uteri	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.60%	C54
Uterus unsp.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.70%	C55
Ovary	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.30%	C56
Other Female Genital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C57
Placenta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C58
Kidney	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.30%	C64
Renal Pelvis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C65
Ureter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C66
Bladder	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.60%	C67
Other Urinary organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C68
Eye	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C69
Brain, Nervous system	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.70%	C70-C72
Thyroid	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.50%	C73
Adrenal gland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C74
Other Endocrine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C75
Hodgkin disease	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C81
Non-Hodgkin Lymphoma	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.50%	C82-C85, C86
Immunoproliferative dis.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C88
Multiple Myeloma	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C90
Lymphoid Leukaemia	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.90%	C91
Myeloid Leukaemia	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.10%	C92-C94
Leukaemia unsp.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C95
Other & unspecified	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.80%	Other
All sites Total	534	0	3	5	1	4	7	8	10	25	32	71	87	69	68	55	42	40	100.00%	All
All sites but C44	531	0	3	5	1	4	7	8	10	25	32	71	96	68	65	55	41	40	99.40%	Nd C44

Appendix 36 : CANCER INCIDENCE, INDIAN RESIDENTS, MALES, PENANG, 2004-2008

Site	All Ages	1 : 0	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Crude Rate	ASR World (10th)	ICD
Lip	12 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3 :	0.6 : C00	
Tongue	8 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3 :	4.6 : C01-C02	
Mouth	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2 :	3.7 : C03-C06	
Salivary glands	2 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0 :	0.0 : C07-C08	
Tonsil	1 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5 :	0.5 : C09	
Other Oropharynx	5 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3 :	0.2 : C10	
Nasopharynx	7 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4 :	2.5 : C11	
Hypopharynx	2 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9 :	3.9 : C12-C13	
Pharynx unsp.	11 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5 :	0.7 : C14	
Oesophagus	19 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0 :	4.8 : C15	
Stomach	1 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.2 :	7.5 : C16	
Small intestine	39 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3 :	0.3 : C17	
Colon	15 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.9 :	14.8 : C18	
Rectum	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1 :	5.9 : C19-C20	
Anus	11 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0 :	0.0 : C21	
Gallbladder etc.	3 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0 :	4.3 : C22	
Pancreas	8 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8 :	1.3 : C23-C24	
Nose, sinuses etc.	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8 :	2.2 : C25	
Larynx	15 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0 :	0.0 : C30-C31	
Trachea, Bronchus, Lung	44 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1 :	5.8 : C32	
Other Thoracic organs	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.1 :	17.8 : C33-C34	
Bone	5 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0 :	0.0 : C37-C38	
Melanoma of Skin	1 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4 :	2.1 : C40-C41	
Other Skin	8 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3 :	0.8 : C43	
Mesothelioma	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2 :	2.5 : C44	
Kaposis sarcoma	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0 :	0.0 : C45	
Connective, Soft tissue	2 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5 :	0.8 : C47-C49	
Breast	1 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3 :	0.3 : C50	
Prostate	26 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5 :	1.1 : C60	
Testis	2 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.1 :	12.7 : C81	
Other male genital	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5 :	0.5 : C82	
Kidney	5 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0 :	0.0 : C83	
Renal Pelvis	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4 :	1.9 : C84	
Ureter	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0 :	0.0 : C85	
Bladder	19 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0 :	0.0 : C86	
Other Urinary organs	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.2 :	6.1 : C87	
Eye	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0 :	0.0 : C88	
Brain, Nervous system	5 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0 :	0.0 : C89	
Thyroid	2 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4 :	1.3 : C70-C72	
Adrenal gland	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5 :	0.8 : C73	
Other Endocrine	1 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0 :	0.0 : C74	
Hodgkin disease	6 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3 :	0.2 : C75	
Non-Hodgkin lymphoma	14 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8 :	2.1 : C81	
Immunoproliferative dis.	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.8 :	3.8 : C82-C85/C86	
Multiple Myeloma	2 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0 :	0.0 : C88	
Lymphoid Leukaemia	6 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5 :	0.9 : C90	
Myeloid Leukaemia	7 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8 :	1.4 : C91	
Leukaemia unsp.	5 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9 :	1.8 : C92-C94	
Other & unspecified	12 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4 :	1.9 : C95	
All sites Total	330 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90.7 :	130.6 : All	
All sites but C44	322 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88.5 :	128.2 : Not C44	

Appendix 37 : CANCER INCIDENCE, INDIAN RESIDENTS, FEMALES, PENANG, 2004-2008

Site	All Ages	Age 0-4	Age 5-9	Age 10-14	Age 15-19	Age 20-24	Age 25-29	Age 30-34	Age 35-39	Age 40-44	Age 45-49	Age 50-54	Age 55-59	Age 60-64	Age 65-69	Age 70-74	Age 75+	Crude Rate	ASR World	ICD (10th)
Lip	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C00
Tongue	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.3	2.0	C01-C02
Mouth	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.7	5.8	C03-C06
Salivary glands	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.2	C07-C08
Tonsil	4	0	0	0	0	0	0	0	0	3.8	8.2	4.6	0	0	0	0	0	1.1	1.1	C09
Other Oropharynx	1	0	0	0	0	0	0	0	0	0	4.1	0	0	0	0	0	0	0.3	0.2	C10
Nasopharynx	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	1.3	C11
Hypopharynx	5	0	0	0	0	3.5	0	0	0	0	8.2	4.6	0	0	0	0	0	1.3	1.4	C12-C13
Pharynx unsp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C14
Oesophagus	14	0	0	0	0	0	0	0	0	0	4.1	13.9	13.3	20	13.3	44.4	88.8	3.7	4.9	C15
Stomach	19	0	0	0	0	0	0	0	3.3	0	8.2	9.3	0	50	40	22.2	111.1	5.1	7.0	C16
Small intestine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C17
Colon	21	0	0	0	0	0	0	0	0	10.7	12.2	13.9	28.7	10	40	22.2	44.4	5.8	8.4	C18
Rectum	15	0	0	0	0	0	0	0	0	3.8	8.2	4.6	20	20	13.3	88.8	22.2	4.0	5.2	C19-C20
Anus	1	0	0	0	0	0	0	0	0	0	4.1	0	0	0	0	0	0	0.3	0.2	C21
Liver	13	0	0	0	0	0	0	0	3.3	0	0	0	0	0	0	0	0	3.5	4.7	C22
Gallbladder etc.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.4	C23-C24
Pancreas	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.8	2.0	C25
Nose, sinuses etc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C30-C31
Larynx	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	1.1	C32
Trachea, Bronchus, Lung	16	0	0	0	0	0	0	0	0	3.8	4.1	18.6	6.7	30	40	22.2	44.4	4.3	5.4	C33-C34
Other Thoracic organs	1	0	0	0	0	0	0	0	3.3	0	0	0	0	0	0	0	0	0.3	0.2	C37-C38
Bone	3	0	0	0	0	3.5	0	0	0	0	0	0	0	0	0	0	0	0.8	1.0	C40-C41
Melanoma of Skin	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.8	C43
Other Skin	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	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	C45
Kaposi sarcoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C46
Connective, Soft tissue	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	C47-C49
Breast	182	0	0	0	0	3.5	0	18.3	42.8	60.7	114.2	185.3	133.3	228.8	188.8	199.9	198.8	48.8	52.5	C50
Vulva	2	0	0	0	0	0	0	0	0	0	0	0	6.7	0	0	0	0	0.5	0.7	C51
Vagina	2	0	0	0	0	0	0	0	0	0	4.1	0	0	0	0	0	0	0.5	0.8	C52
Cervix Uteri	39	0	0	0	0	0	0	0	13.1	3.8	12.2	27.9	33.3	90	108.8	44.4	22.2	10.4	12.8	C53
Corpus Uteri	46	0	0	0	0	3.4	0	0	0	3.8	12.2	89.7	53.3	50	90	88.8	88.8	12.3	14.3	C54
Uterus unsp.	4	0	0	0	0	0	0	0	0	0	0	0	8.7	20	0	0	0	1.5	1.5	C55
Ovary	39	0	0	0	0	3.5	10.2	3.2	6.6	17.8	32.6	32.5	40	10	13.3	44.4	22.2	10.4	10.4	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	C57
Placenta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C58
Kidney	7	0	0	0	0	0	0	0	0	0	12.2	0	20	0	0	0	0	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	C65
Ureter	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	4.1	4.6	0	0	0	0	0	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	C68
Eye	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	C69
Brain, Nervous system	4	0	0	0	0	3.4	0	0	0	0	4.1	0	8.7	0	0	0	0	1.1	1.0	C70-C72
Thyroid	8	0	0	0	0	0	0	3.2	0	0	12.2	0	13.3	10	13.3	0	0	2.1	2.3	C73
Adrenal gland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C74
Other Endocrine	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	0	0	0	0	0	0	0	0	0.5	0.9	C81
Non-Hodgkin lymphoma	8	0	0	0	0	3.5	0	0	0	0	0	0	0	0	0	0	0	2.1	2.1	C82-C85,C88
Immunoproliferative dis.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C86
Multiple Myeloma	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.3	1.5	C91
Lymphoid Leukaemia	5	0	0	0	0	3.5	0	0	0	0	0	0	0	0	0	0	0	0.5	0.9	C90
Myeloid Leukaemia	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.8	2.8	C92-C94
Leukaemia unsp.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.4	C95
Other & unspecified	14	0	0	0	0	3.5	6.8	6.4	0	0	8.2	9.3	0	0	40	44.4	0	3.7	4.3	Other
All sites Total	534	0	0	0	0	27	27	32	82	114	280	451	453	860	733	933	889	142.5	164.4	All
All sites but C44	531	0	0	0	0	25	25	32	82	114	280	446	453	850	733	911	889	141.7	163.3	Not C44

Appendix 38 : NUMBER OF NEW CASES BY SITES AND AGE GROUP, TL, MALES, PENANG, 2004-2008

Site	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	% of Total	ICD (10th)
Lip	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00%	C00
Tongue	17	0	0	0	0	0	0	1	0	1	1	2	3	3	1	2	2	1	0.80%	C01-C02
Mouth	17	0	0	0	0	0	0	0	0	0	0	0	0	3	4	3	2	4	0.80%	C03-C08
Salivary glands	8	0	0	0	0	0	0	0	0	0	0	2	2	1	0	1	0	0	0.30%	C07-C08
Tonsil	9	0	0	0	0	0	0	0	0	0	0	0	1	3	1	3	1	0	0.40%	C09
Other Oropharynx	5	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	0	0	0.20%	C10
Nasopharynx	123	0	0	0	0	0	0	4	7	9	14	18	19	17	12	12	5	8	5.80%	C11
Hypopharynx	11	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	5	1	0.50%	C12-C13
Pharynx unsp. spec.	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0.10%	C14
Oesophagus	31	0	0	0	0	0	1	0	0	0	1	1	1	3	8	8	3	5	1.50%	C15
Stomach	130	0	0	0	0	0	1	0	0	2	3	12	10	14	18	21	18	31	8.10%	C16
Small Intestine	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.30%	C17
Colon	207	0	0	0	1	1	0	2	3	3	9	8	27	12	31	33	31	46	9.80%	C18
Rectum	141	0	0	0	0	0	0	0	2	1	3	10	16	24	21	15	16	33	6.70%	C19-C20
Anus	4	0	0	0	0	0	1	0	0	0	0	0	0	1	0	2	0	0	0.20%	C21
Liver	131	0	1	0	0	0	0	0	0	1	4	9	21	18	22	17	15	19	8.20%	C22
Gallbladder etc.	14	0	0	0	0	0	0	0	0	0	1	4	2	5	10	8	1	13	2.10%	C23-C24
Pancreas	45	0	0	0	0	0	0	0	0	1	1	4	2	5	10	8	1	0	0.40%	C25
Nose, sinuses etc.	9	0	0	0	0	0	0	0	0	1	1	2	1	5	2	4	12	7	1.90%	C30-C31
Larynx	40	0	0	0	0	0	0	0	0	1	2	1	5	2	4	12	7	8	0.90%	C32
Trachea, Bronchus, Lung	348	0	0	0	0	0	0	0	0	4	6	19	35	45	41	61	62	73	16.30%	C33-C34
Other Thoracic organs	9	0	0	0	0	1	2	0	0	0	1	1	1	1	1	1	0	0	0.40%	C37-C38
Bone	22	0	0	0	0	1	2	1	1	1	2	2	0	2	2	3	3	1	1.00%	C40-C41
Melanoma of Skin	5	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	1	0.20%	C43
Other Skin	81	0	0	0	1	0	0	1	2	2	4	2	5	6	9	14	15	20	3.80%	C44
Mesothelioma	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C45
Kaposi sarcoma	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.10%	C46
Connective, Soft tissue	20	0	1	0	0	1	0	2	1	0	1	2	3	0	4	1	0	4	0.90%	C47-C48
Breast	6	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	3	0	0.30%	C50
Peris	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0.20%	C61
Prostate	195	0	0	0	0	0	0	0	0	0	0	3	4	7	23	38	44	76	9.20%	C62
Testis	12	0	2	0	0	0	0	0	0	2	1	0	0	0	0	0	0	1	0.80%	C63
Other male genital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C64
Kidney	48	0	1	0	0	0	0	0	1	2	4	6	2	7	8	3	7	9	2.30%	C65
Renal Pelvis	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0.10%	C66
Ureter	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0.10%	C67
Bladder	77	0	0	0	0	0	0	0	0	1	2	4	3	11	11	13	12	20	3.80%	C68
Other Urinary organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C69
Eye	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00%	C70-C72
Brain, Nervous system	34	0	1	1	2	2	2	2	2	1	5	4	4	2	1	4	0	1	1.60%	C73
Thyroid	15	0	0	0	0	0	0	0	0	0	1	3	1	0	2	2	0	2	0.70%	C74
Adrenal gland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C75
Other Endocrine	3	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0.10%	C81
Hodgkin disease	17	0	0	1	1	2	0	0	0	2	0	2	1	3	0	1	2	2	0.80%	C82-C85/C96
Non-Hodgkin lymphoma	91	0	1	2	2	2	1	3	2	5	2	6	9	12	10	18	3	13	4.30%	C86
Immunoproliferative dis.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C87
Multiple Myeloma	9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C88
Lymphoid Leukaemia	27	0	2	3	4	0	2	3	1	2	1	1	3	0	1	1	3	0	1.30%	C89
Myeloid Leukaemia	37	0	0	1	1	0	2	4	2	0	3	1	5	3	2	6	5	2	1.70%	C92-C94
Leukaemia unsp. spec.	8	0	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0.40%	C95
Other & unspecified	87	0	1	0	2	1	1	0	0	2	5	8	7	10	16	12	12	12	4.10%	Other
All sites Total	2118	0	19	8	17	13	18	26	31	49	80	133	203	221	280	325	281	414	100.00%	All
All sites but C44	2037	0	19	8	16	13	18	25	29	47	76	131	198	215	271	311	288	384	96.20%	Not C44

Appendix 39 : NUMBER OF NEW CASES BY SITES AND AGE GROUP, TL, FEMALES, PENANG, 2004-2008

Site	All Ages	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	% of Total	ICD (10th)
Lip	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C00
Tongue	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C01-C02
Mouth	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C03-C06
Salivary glands	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C07-C08
Tonsil	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C09
Other Oropharynx	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C10
Nasopharynx	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.70%	C11
Hypopharynx	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C12-C13
Pharynx unsp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C14
Oesophagus	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.90%	C15
Stomach	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.70%	C16
Small intestine	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C17
Colon	210	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.30%	C18
Rectum	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.80%	C19-C20
Anus	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C21
Liver	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.40%	C22
Gallbladder etc.	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C23-C24
Pancreas	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.50%	C25
Nose, sinuses etc.	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C30-C31
Larynx	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C32
Trachea, Bronchus, Lung	146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.70%	C33-C34
Other Thoracic organs	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C37-C38
Bone	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C40-C41
Melanoma of Skin	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C43
Other Skin	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.00%	C44
Mesothelioma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C45
Kaposi sarcoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C46
Connective, Soft tissue	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C47-C48
Breast	853	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.80%	C50
Vulva	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C51
Vagina	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C52
Cervix Uteri	189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.40%	C53
Corpus Uteri	122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.80%	C54
Uterus unsp.	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C55
Ovary	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.10%	C56
Other Female Genital	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C57
Placenta	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C58
Kidney	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.00%	C59
Renal Pelvis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C60
Ureter	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C61
Bladder	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.30%	C62
Other Urinary organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C63
Eye	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C64
Brain, Nervous system	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C65
Thyroid	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.90%	C66
Adrenal gland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C67
Other Endocrine	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C68
Hodgkin disease	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C69
Non-Hodgkin lymphoma	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.90%	C70-C72
Immunoproliferative dis.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C73
Multiple Myeloma	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C74
Lymphoid Leukemia	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.50%	C75
Myeloid Leukemia	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.50%	C82-C85;C96
Leukemia unsp.	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C80
Other & unspecified	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.50%	C81
All sites Total	2541	8	4	8	10	16	29	54	107	191	266	316	319	293	258	247	415	100.00%	All
All sites but C44	2490	8	4	8	10	15	28	54	107	191	261	314	313	288	253	243	395	98.00%	Nd C44

Appendix 41 : CANCER INCIDENCE, TL RESIDENTS, FEMALES, PENANG, 2004-2008

Site	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Crude Rate	ASR World	ICD (10th)
Lip	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.2	C00
Tongue	10	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.8	C01-C02
Mouth	5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8	0.4	C03-C06
Salivary glands	9	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	0.7	C07-C08
Tongue	5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	0.4	C09
Other Oropharynx	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C10
Neopharynx	42	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C11
Hypopharynx	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	C12-C13
Pharynx unsp.	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C14
Oesophagus	23	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C15
Stomach	94	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	1.8	C16
Small Intestine	4	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.3	C17
Colon	210	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.3	C18
Rectum	97	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.1	18.5	C19-C20
Anus	9	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8	0.7	C21
Liver	82	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.3	5.0	C22
Gallbladder etc.	20	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	1.6	C23-C24
Pancreas	39	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4	3.1	C25
Nose, sinuses etc.	5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	0.4	C30-C31
Larynx	4	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.3	C32
Trachea, Bronchus, Lung	148	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.6	11.7	C33-C34
Other Thoracic organs	14	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	1.1	C37-C38
Bone	15	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3	1.2	C40-C41
Melanoma of Skin	9	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8	0.7	C43
Other Skin	51	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.4	4.0	C44
Mesothelioma	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C45
Kaposi sarcoma	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C46
Connective Tissue	20	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	1.7	C47-C48
Breast	853	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73.6	66.9	C50
Vulva	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.2	C51
Vagina	7	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.6	0.5	C52
Cervix Uteri	189	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.3	14.7	C53
Corpus Uteri	122	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.5	9.8	C54
Uterus unsp.	8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7	0.7	C55
Ovary	130	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.2	10.2	C56
Other Female Genital	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.2	C57
Pleura	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	C58
Kidney	25	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2	2.0	C64
Renal Pelvis	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C65
Ureter	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.2	C66
Bladder	34	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	2.7	C67
Other Urinary organs	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C68
Eye	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	C69
Brain, Nervous system	24	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	2.0	C70-C72
Thyroid	48	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1	3.7	C73
Adrenal gland	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	C74
Other Endocrine	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	C75
Hodgkin disease	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.3	C81
Non-Hodgkin lymphoma	64	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5	5.0	C82-C85/C98
Immunoproliferative dis.	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C86
Multiple Myeloma	8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7	0.7	C90
Lymphoid Leukaemia	12	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	1.2	C91
Myeloid Leukaemia	39	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4	3.1	C92-C94
Leukaemia unsp.	6	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	0.6	C95
Other & unspecified	81	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.3	4.7	Other
All sites Total	2541	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	219.2	200.6	All
All sites but C44	2480	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	214.8	198.5	Not C44

Appendix 42 : NUMBER OF NEW CASES BY SITES AND AGE GROUP, BD, MALES, PENANG, 2004-2008

Site	All Ages	0- 4	5- 9	10- 14	15- 19	20- 24	25- 29	30- 34	35- 39	40- 44	45- 49	50- 54	55- 59	60- 64	65- 69	70- 74	75+ 75+	% of Total	ICD (10th)
Lip	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C00
Tongue	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C01-C02
Mouth	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C03-C06
Salivary glands	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C07-C08
Tonsil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C09
Other Oropharynx	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C10
Nasopharynx	35	0	0	0	0	0	1	2	0	5	8	5	6	4	1	2	3	8.80%	C11
Hypopharynx	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.60%	C12-C13
Pharynx unspc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C14
Oesophagus	8	0	0	0	0	0	0	1	0	0	0	3	1	2	0	0	1	1.80%	C15
Stomach	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.30%	C16
Small intestine	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C17
Colon	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.20%	C18
Rectum	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.10%	C19-C20
Anus	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C21
Liver	31	0	1	0	0	0	0	0	2	0	3	4	3	5	4	3	4	6.10%	C22
Gallbladder etc.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.60%	C23-C24
Pancreas	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.10%	C25
Nose, sinuses etc.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C30-C31
Larynx	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.30%	C32
Trachea, Bronchus, Lung	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18.60%	C33-C34
Other Thoracic organs	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.00%	C37-C38
Bone	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.00%	C40-C41
Melanoma of Skin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C43
Other Skin	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.70%	C44
Mesothelioma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C45
Kaposi sarcoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C46
Connective, Soft tissue	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.00%	C47-C49
Breast	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C50
Penis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C60
Prostate	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.20%	C61
Testis	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.20%	C62
Other male genital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C63
Kidney	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.10%	C64
Renal Pelvis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C65
Ureter	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C66
Bladder	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.10%	C67
Other Urinary organs	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C68
Eye	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C69
Brain, Nervous system	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.50%	C70-C72
Thyroid	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C73
Adrenal gland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C74
Other Endocrine	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.60%	C75
Hodgkin disease	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.40%	C81
Non-Hodgkin lymphoma	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.10%	C82-C85,C96
Immunoproliferative dis.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C88
Multiple Myeloma	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C90
Lymphoid Leukaemia	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.30%	C91
Myeloid Leukaemia	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.80%	C92-C94
Myeloid Leukaemia unspc.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C95
Leukaemia unspc.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C95
Other & unspecified	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.30%	Other
All sites Total	512	0	8	8	3	9	10	8	13	22	48	46	55	64	58	65	74	100.00%	All
All sites but C44	493	0	8	8	3	9	9	8	13	20	45	45	54	63	57	64	73	98.30%	Not C44

Appendix 43 : NUMBER OF NEW CASES BY SITES AND AGE GROUP, BD, FEMALES, PENANG, 2004-2008

Sites	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	% of Total	ICD (10th)
Lip	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.20%	C00
Tongue	3	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0.50%	C01-C02
Mouth	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C03-C06
Salivary glands	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0.30%	C07-C08
Tonsil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.20%	C09
Other Oropharynx	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C10
Nasopharynx	14	0	0	0	0	0	0	0	0	0	2	1	3	3	2	1	1	0	2.40%	C11
Hypopharynx	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C12-C13
Pharynx unsp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C14
Oesophagus	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.30%	C15
Stomach	18	0	0	0	0	0	0	0	0	0	2	0	0	1	2	1	3	8	3.10%	C16
Small intestine	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.20%	C17
Colon	23	0	0	0	0	0	0	0	1	1	1	3	7	6	4	6	5	7	7.00%	C18
Rectum	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	5	3.90%	C19-C20
Anus	14	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.20%	C21
Liver	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.40%	C22
Gallbladder etc.	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.90%	C23-C24
Pancreas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.00%	C25
Noise, sinuses etc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C30-C31
Larynx	30	0	0	0	0	0	0	0	0	0	1	1	1	7	2	3	9	4	5.10%	C32
Trachea, Bronchus, Lung	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C33-C34
Other Thoracic organs	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C37-C38
Bone	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.50%	C40-C41
Melanoma of Skin	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.70%	C43
Other Skin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C44
Mesothelioma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C45
Kaposi sarcoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C46
Connective, Soft tissues	4	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.70%	C47-C49
Breast	197	0	0	0	0	0	1	3	7	12	26	43	30	28	19	15	5	7	33.70%	C50
Vulva	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.50%	C51
Vagina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C52
Cervix Uteri	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.10%	C53
Corpus Uteri	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.50%	C54
Uterus unsp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C55
Ovary	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.50%	C56
Other Female Genital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C57
Placenta	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C58
Kidney	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.70%	C59
Renal Pelvis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C64
Ureter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C65
Bladder	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.50%	C66
Other Urinary organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C67
Eye	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.50%	C68
Brain, Nervous system	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.50%	C69
Thyroid	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.40%	C70-C72
Adrenal gland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C73
Other Endocrine	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C74
Hodgkin disease	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C75
Non-Hodgkin Lymphoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.80%	C81
Immunoproliferative dis.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C82-C85;C98
Multiple Myeloma	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.70%	C88
Lymphoid Leukaemia	17	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.80%	C89
Myeloid Leukaemia	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.50%	C91
Leukaemia unsp.	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.20%	C92-C94
Other & unspecified	584	0	5	3	4	4	6	12	13	34	48	80	84	87	85	58	48	57	100.00%	Other
All sites Total	574	0	5	3	4	4	6	12	13	33	46	77	83	85	85	56	47	56	98.30%	All
All sites but C44																				Not C44

Appendix 44 : CANCER INCIDENCE, BD RESIDENTS, MALES, PENANG, 2004-2008

Site	All Ages	Age Unk	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Crude Rate	ASR World	ICD (10th)
Lip	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C00
Tongue	2	0	-	-	-	-	-	-	-	2.9	3.3	-	-	-	-	-	-	-	0.4	0.4	C01-C02
Mouth	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.4	C03-C06
Salivary glands	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	0.2	0.4	C07-C08
Tonsil	1	0	-	-	-	-	-	-	-	-	-	-	-	-	8.3	-	-	-	0.2	0.3	C09
Other Oropharynx	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	11.8	20	-	0.4	0.8	C10
Nasopharynx	35	0	-	-	-	-	2.5	5.3	-	16.7	22.6	22.2	22.2	35.3	33.3	11.8	40	60	7.5	9.1	C11
Hypopharynx	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	-	0.8	1.2	C12-C13
Pharynx unsp.	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C14
Oesophagus	8	0	-	-	-	-	-	-	2.6	-	-	-	13.3	5.9	16.7	-	-	20	1.7	2.1	C15
Stomach	22	0	-	-	-	-	-	-	-	3.3	-	-	13.3	23.5	50	11.8	80	60	4.7	7.0	C16
Small Intestine	1	0	-	-	-	-	-	-	-	-	-	-	-	-	8.3	-	-	-	0.2	0.3	C17
Colon	37	0	-	-	-	-	-	2.5	-	5.9	10	11.3	17.8	5.9	33.3	35.3	120	179.9	7.9	11.5	C18
Rectum	31	0	-	-	-	-	-	-	-	2.9	-	11.3	17.8	17.6	33.3	56.8	100	120	6.8	9.9	C19-C20
Anus	31	0	2.1	2	-	-	-	-	-	5.9	-	11.3	17.8	17.6	41.6	47	60	80	6.8	9.1	C21
Liver	3	0	-	-	-	-	-	-	2.6	-	-	-	-	-	11.8	-	20	20	0.8	0.9	C23-C24
Gallbladder etc.	11	0	-	-	-	-	-	-	-	-	7.5	-	-	11.8	-	47	60	2.4	3.5	C25	
Pancreas	2	0	-	-	-	-	-	-	-	-	-	-	4.4	-	8.3	-	-	-	0.4	0.8	C30-C31
Noise, sinuses etc.	12	0	-	-	-	-	-	-	-	-	-	3.8	4.4	11.8	25	23.5	60	-	2.6	3.8	C32
Larynx	95	0	-	-	-	-	2.4	-	-	3.3	30.2	17.6	17.6	82.3	133.3	223.4	339.9	299.9	20.4	31.2	C33-C34
Trachea, Bronchus, Lung	5	0	-	-	-	-	-	2.5	-	2.9	-	-	4.4	-	-	11.8	-	20	1.1	1.4	C37-C38
Other Thoracic organs	5	0	4.1	-	-	-	-	-	-	3.3	-	-	8.9	-	-	-	-	-	1.1	1.1	C40-C41
Bone	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C43
Melanoma of Skin	19	0	-	-	-	-	-	5.1	-	6.7	3.8	4.4	23.5	25	35.3	-	40	20	4.1	5.5	C44
Other Skin	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C45
Mesothelioma	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C46
Kaposi sarcoma	5	0	-	-	-	2.4	-	-	-	-	-	-	-	11.8	8.3	11.8	-	-	1.1	1.3	C47-C49
Connective, Soft tissue	1	0	-	-	-	-	-	-	-	-	-	-	-	-	8.3	-	-	-	0.2	0.3	C50
Breast	37	0	-	-	-	-	-	-	-	-	-	-	-	3.8	16.7	35.3	239.9	299.9	7.9	13.7	C61
Penis	6	0	-	-	2.2	-	-	-	-	2.9	-	-	4.4	-	-	-	20	-	1.3	1.4	C62
Prostate	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C63
Testis	18	0	4.1	2	-	-	2.5	-	-	2.9	6.7	11.3	8.9	5.9	8.3	11.8	20	-	3.4	3.9	C64
Other male genital	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C65
Kidney	1	0	-	-	-	-	-	-	-	-	-	-	-	-	8.3	-	-	-	0.2	0.3	C66
Renal Pelvis	21	0	-	-	-	-	-	-	2.8	-	-	11.3	-	5.9	33.3	47	40	100	4.5	6.8	C67
Ureter	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.2	C68
Bladder	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C69
Other Urinary organs	13	0	2.1	-	2.2	-	-	-	2.6	2.9	-	3.8	17.6	11.8	-	11.8	-	20	2.8	3.1	C70-C72
Eye	2	0	-	-	-	-	-	-	-	-	-	3.8	-	-	-	-	20	-	0.4	0.6	C73
Brain, Nervous system	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C74
Adrenal gland	3	0	-	-	-	-	2.4	2.5	-	-	-	-	-	5.9	-	-	-	-	0.8	0.8	C75
Other Endocrine	7	0	-	2	4.5	2.3	2.4	-	-	2.9	3.3	-	-	-	-	-	-	-	1.5	1.4	C81
Hodgkin disease	28	0	-	-	2.3	-	-	-	2.6	-	10	18.9	17.8	29.4	33.3	11.8	20	20	5.6	6.8	C82-C85/C88
Non-Hodgkin lymphoma	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C86
Immunoproliferative dis.	4	0	-	-	-	-	-	-	-	-	-	3.8	-	-	8.3	11.8	20	-	0.9	1.3	C90
Multiple Myeloma	12	0	2.1	5.9	2.2	-	4.8	2.5	2.6	-	3.3	-	-	5.9	-	11.8	-	-	2.6	2.6	C91
Lymphoid Leukaemia	8	0	2.1	-	2.3	-	-	2.5	-	5.9	-	7.5	-	5.9	8.3	-	-	-	1.9	2.0	C92-C94
Myeloid Leukaemia	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	11.8	-	-	0.4	0.8	C95
Leukaemia unsp.	17	0	-	-	2.2	-	-	-	-	-	-	18.9	8.9	11.8	6.3	23.5	-	60	3.8	4.9	Other
Other & unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
All sites Total	512	0	16	12	18	7	22	25	21	38	73	185	209	347	558	729	1339	1479	109.7	153.1	All
All sites but C44	493	0	18	12	18	7	22	20	21	38	87	181	204	323	533	694	1289	1459	105.8	147.8	Nd C44

Appendix 45 : CANCER INCIDENCE, BD RESIDENTS, FEMALES, PENANG, 2004-2008

Site	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Crude Rate	ASR World	ICD (10th)
Lip	1	0	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	-	11.8	0.2	0.2	C00
Tongue	3	0	-	-	-	-	-	-	-	-	-	3.8	-	-	-	-	-	-	0.6	0.7	C01-C02
Mouth	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.3	C03-C06
Salivary glands	2	0	-	-	-	-	-	-	-	-	-	-	-	-	7.7	-	14.3	-	0.4	0.6	C07-C08
Tonsil	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.3	-	0.2	0.3	C09
Other Oropharynx	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C10
Nasopharynx	14	0	-	-	-	-	-	2.4	-	-	6.4	3.6	13	17.1	15.4	10	14.3	-	2.9	3.3	C11
Hypopharynx	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.3	-	0.2	0.3	C12-C13
Pharynx unsp.	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C14
Oesophagus	18	0	-	-	-	-	-	-	-	-	6.4	-	-	5.7	15.4	10	42.8	11.8	0.4	0.5	C15
Stomach	41	0	-	-	-	-	-	-	-	3.2	-	-	-	-	-	-	11.8	-	0.2	0.2	C16
Small Intestine	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.8	-	0.2	0.2	C17
Ccolon	23	0	-	-	-	-	-	-	2.4	2.8	3.2	10.8	30.4	34.3	30.8	60	71.4	82.3	8.5	10.2	C18
Rectum	1	0	-	-	-	-	-	-	-	2.8	-	3.8	26.1	11.4	15.4	30	42.8	58.8	4.8	5.7	C19-C20
Anus	14	0	-	-	-	-	-	-	-	-	-	-	-	-	7.7	-	-	-	0.2	0.3	C21
Liver	5	0	-	-	-	-	-	-	-	2.8	-	-	13	-	7.7	30	28.6	47	2.9	3.5	C22
Gallbladder etc.	6	0	-	-	-	-	-	-	-	-	-	-	4.3	-	15.4	10	-	23.5	1.0	1.4	C23-C24
Pancreas	0	0	-	-	-	-	-	-	-	-	-	-	-	-	15.4	20	14.3	-	1.2	1.7	C25
Nose, sinuses etc.	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C30-C31
Larynx	30	0	-	-	-	-	-	2.3	-	2.8	3.2	3.6	4.3	40	15.4	30	128.5	47	8.2	7.8	C32
Trachea, Bronchus, Lung	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	0.2	0.3	C33-C34
Other Thoracic organs	2	0	-	-	-	-	-	-	-	-	-	7.3	-	-	-	-	-	-	0.4	0.4	C37-C38
Bone	3	0	-	-	-	-	-	-	-	2.8	-	-	-	5.7	-	10	-	-	0.6	0.7	C40-C41
Melanoma of Skin	10	0	-	-	-	2.4	-	-	-	2.8	-	10.8	4.3	11.4	-	-	14.3	11.8	2.1	2.2	C43
Other Skin	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C44
Mesothelioma	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C45
Kaposi sarcoma	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C46
Connective Soft tissue	4	0	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C47-C49
Breast	197	0	-	-	-	2.4	2.4	7	16.5	33.3	83.8	156.3	130.4	165.6	148.1	149.8	71.4	82.3	41.0	44.7	C50
Vulva	3	0	-	-	-	-	-	2.3	-	-	-	3.8	-	-	-	-	14.3	-	0.8	0.7	C51
Vagina	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C52
Cervix Uteri	53	0	-	-	-	-	2.4	-	2.4	22.2	18.3	10.8	47.8	22.8	38.4	40	42.8	82.3	11.0	12.0	C53
Corpus Uteri	32	0	-	-	-	-	-	-	-	5.6	8.4	10.8	39.1	22.8	53.8	10	14.3	35.3	8.7	7.7	C54
Uterus unsp.	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C55
Ovary	32	0	-	-	2.4	4.7	-	-	-	2.8	9.7	29.1	26.1	5.7	23.1	40	14.3	23.5	6.7	7.5	C56
Other Female Genital	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C57
Placenta	1	0	-	-	-	-	-	-	-	2.8	-	-	-	11.4	7.7	40	14.3	11.8	2.1	2.7	C58
Kidney	10	0	-	-	-	-	-	-	-	2.8	-	-	-	-	-	-	-	-	0.0	0.0	C59
Renal Pelvis	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C60
Ureter	3	0	-	-	-	-	-	-	-	-	-	-	-	-	15.4	-	14.3	-	0.6	0.9	C61
Bladder	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C62
Other Urinary organs	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C63
Eye	3	0	2.1	-	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C64
Brain, Nervous system	5	0	-	-	2.4	-	-	2.4	-	-	-	7.3	-	-	-	10	14.3	-	0.8	0.8	C65
Thyroid	8	0	-	-	-	2.4	9.3	-	-	-	-	3.6	-	-	15.4	-	-	-	1.0	1.1	C66
Adrenal gland	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.2	C67
Other Endocrine	2	0	-	-	-	-	-	-	-	-	-	3.6	-	-	-	-	-	-	0.4	0.5	C68
Hodgkin disease	15	0	-	-	-	-	-	2.3	-	-	-	-	-	5.7	23.1	20	14.3	-	3.1	3.7	C69
Non-Hodgkin lymphoma	0	0	-	-	-	2.4	-	-	-	2.8	-	3.6	13	-	-	-	-	-	0.0	0.0	C70-C72
Immunoproliferative dis.	4	0	-	-	-	-	-	-	-	-	-	-	-	-	15.4	10	-	-	0.8	1.2	C73
Multiple Myeloma	4	0	-	-	-	-	-	-	-	-	-	-	-	-	7.7	-	-	11.8	0.8	1.0	C74
Lymphoid Leukaemia	4	0	4.3	-	2.4	-	-	-	-	-	6.4	7.3	4.3	5.7	7.7	-	-	-	3.5	3.6	C75
Myeloid Leukaemia	17	0	2.1	2	4.8	-	-	4.6	2.4	5.6	3.2	3.6	-	-	-	-	-	-	0.8	0.7	C76
Leukaemia unsp.	3	0	-	-	-	-	-	-	-	-	-	-	-	11.4	-	-	14.3	-	1.5	1.8	C77
Other & unspecified	7	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
All sites Total	584	0	11	6	10	10	14	28	31	94	148	291	385	383	500	560	685	670	121.5	138.3	All
All sites but C44	574	0	11	6	10	7	14	28	31	92	148	280	381	371	500	560	671	659	119.4	136.1	Not C44

Appendix 46 : NUMBER OF NEW CASES BY SITES AND AGE GROUP, SPU, MALES, PENANG, 2004-2008

Site	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	% of Total	ICD (10th)
Lip	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.20%	C00
Tongue	5	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	1.20%	C01-C02
Mouth	8	0	0	0	0	0	0	0	0	1	0	0	1	1	2	0	0	0	0.80%	C03-C06
Salivary glands	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.50%	C07-C08
Tonsil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C09
Other Oropharynx	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C10
Nasopharynx	41	0	0	0	0	1	0	0	1	1	5	8	7	3	2	8	3	2	6.30%	C11
Hypopharynx	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.90%	C12-C13
Pharynx unsp. spec.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C14
Oesophagus	12	0	0	0	0	0	0	0	0	0	0	1	1	2	3	3	1	1	1.90%	C15
Stomach	23	0	0	0	0	0	0	0	1	0	1	2	2	2	3	3	4	4	3.60%	C16
Small Intestine	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C17
Colon	48	0	0	0	0	0	0	0	0	2	1	3	6	4	4	10	7	11	7.40%	C18
Rectum	45	0	0	0	0	0	0	0	1	1	2	3	3	7	5	12	5	6	7.00%	C19-C20
Anus	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.20%	C21
Liver	39	0	0	0	0	0	0	0	2	1	1	2	4	6	11	11	2	4	6.00%	C22
Gallbladder etc.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.60%	C23-C24
Pancreas	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2.20%	C25
Nose, sinuses etc.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.60%	C30-C31
Larynx	21	0	0	0	0	0	0	0	0	0	0	0	0	1	5	3	4	5	3.20%	C32
Trachea, Bronchus, Lung	111	0	0	0	0	0	0	0	1	2	5	5	7	22	10	20	21	18	17.20%	C33-C34
Other Thoracic organs	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C37-C38
Bone	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1.20%	C40-C41
Melanoma of Skin	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C43
Other Skin	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	2.20%	C44
Mesothelioma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C45
Kaposi sarcoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C46
Connective, Soft tissue	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C47-C49
Breast	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C50
Penis	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.50%	C60
Prostate	56	0	0	0	0	0	0	0	0	0	0	0	0	4	13	10	9	19	8.70%	C61
Testis	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.50%	C62
Other male genital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C63
Kidney	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.50%	C64
Renal Pelvis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C65
Ureter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C66
Bladder	37	0	0	0	0	0	0	0	0	0	0	0	0	5	2	5	5	9	5.70%	C67
Other Urinary organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C68
Eye	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C69
Brain, Nervous system	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C70-C72
Thyroid	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.20%	C73
Adrenal gland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C74
Other Endocrine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C75
Hodgkin disease	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.60%	C81
Non-Hodgkin lymphoma	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.50%	C82-C85;C96
Immunoproliferative dis.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C86
Multiple Myeloma	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C89
Lymphoid Leukaemia	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.20%	C90
Myeloid Leukaemia	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.00%	C92-C94
Leukaemia unsp. spec.	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C95
Other & unspecified	24	0	0	0	0	0	0	0	0	0	0	0	0	6	2	4	2	6	3.70%	Other
All sites Total	847	0	13	9	8	10	9	11	10	17	30	35	51	80	70	111	82	101	100.00%	All
All sites but C44	833	0	13	9	8	9	9	10	10	16	30	35	50	78	70	106	80	100	97.80%	Not C44

Appendix 47 : NUMBER OF NEW CASES BY SITES AND AGE GROUP, SPU, FEMALES, PENANG, 2004-2008

Site	All Ages	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	% of Total	ICD (10th)
Lip	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C00
Tongue	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.40%	C01-C02
Mouth	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.90%	C03-C06
Salivary glands	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C07-C08
Tonsil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C09
Other Oropharynx	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C10
Nasopharynx	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.20%	C11
Hypopharynx	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.40%	C12-C13
Pharynx unsp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C14
Oesophagus	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C15
Stomach	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1.50%	C16
Small Intestine	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3.20%	C17
Colon	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.30%	C18
Rectum	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	8.00%	C19-C20
Anus	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	4.70%	C21
Liver	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1.70%	C22
Gallbladder etc.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.40%	C23-C24
Pancreas	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1.60%	C25
Nose, sinuses etc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C30-C31
Larynx	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C32
Trachea, Bronchus, Lung	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	5.80%	C33-C34
Other Thoracic organs	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C37-C38
Bone	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.50%	C40-C41
Melanoma of Skin	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C43
Other Skin	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1.80%	C44
Mesothelioma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C45
Kaposi sarcoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C46
Connective Soft tissue	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C47-C49
Breast	228	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	30.70%	C50
Vulva	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C51
Vagina	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C52
Cervix Uteri	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C53
Corpus Uteri	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8.30%	C54
Uterus unsp.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3.90%	C55
Ovary	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.50%	C56
Other Female Genital	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6.80%	C57
Placenta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C58
Kidney	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C59
Renal Pelvis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C64
Ureter	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C65
Bladder	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.10%	C66
Other Urinary organs	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.90%	C67
Eye	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.10%	C68
Brain, Nervous system	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C69
Thyroid	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C70-C72
Adrenal gland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.50%	C73
Other Endocrine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C74
Hodgkin disease	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C75
Non-Hodgkin lymphoma	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C81
Immunoproliferative dia.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2.80%	C82-C85/C98
Multiple Myeloma	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C88
Lymphoid Leukaemia	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C90
Myeloid Leukaemia	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2.00%	C91
Leukaemia unsp.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.00%	C92-C94
Other & unspecified	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.50%	C95
All sites Total	746	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	100.00%	All
All sites but C44	732	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	98.10%	Nd C44

Appendix 48 : CANCER INCIDENCE, SPUR RESIDENTS, MALES, PENANG, 2004-2008

Site	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Crude Rate	ASR World	ICD (10th)
Lip	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.1	0.1	0.2	C00
Tongue	8	0	-	-	-	-	-	-	-	-	-	-	-	3.8	5.3	7.7	25	22.2	1.1	1.7	C01-C02
Mouth	5	0	-	-	-	-	-	-	-	-	-	-	2.9	3.8	10.5	-	-	-	0.7	0.8	C03-C06
Salivary glands	3	0	-	-	-	-	-	-	1.7	-	-	-	-	-	5.3	-	-	11.1	0.4	0.5	C07-C08
Tonsil	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C09
Other Oropharynx	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C10
Nasopharynx	41	0	-	-	-	1.5	-	-	1.7	1.9	10.7	19.3	20	11.3	10.5	61.5	37.5	22.2	5.7	7.1	C11
Hypopharynx	8	0	-	-	-	-	-	-	-	-	-	-	2.9	-	5.3	15.4	12.5	11.1	0.8	1.3	C12-C13
Pharynx unsp.	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C14
Oesophagus	12	0	-	-	-	-	-	-	-	-	-	2.4	2.9	7.5	15.8	23.1	12.5	11.1	1.7	2.4	C15
Stomach	23	0	-	-	-	-	-	1.7	-	1.9	2.1	4.8	5.7	7.5	15.8	23.1	50	44.4	3.2	4.5	C16
Small Intestine	1	0	-	-	-	-	-	-	1.7	-	-	-	-	-	-	-	-	-	0.1	0.1	C17
Colon	48	0	-	-	-	-	-	-	-	3.8	2.1	7.2	17.1	15.1	21	76.9	87.5	122.2	6.7	9.8	C18
Rectum	45	0	-	-	-	-	-	-	1.7	1.9	4.3	7.2	8.6	26.4	26.3	92.3	82.5	86.8	6.3	8.8	C18-C20
Anus	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.5	-	0.1	0.2	C21
Liver	39	0	-	-	-	-	-	-	3.4	1.9	2.1	4.8	11.4	22.6	31.6	84.6	25	44.4	5.5	7.4	C22
Gallbladder etc.	4	0	-	-	-	-	-	1.7	-	-	-	-	-	-	5.3	7.7	12.5	-	0.8	0.8	C23-C24
Pancreas	14	0	-	-	-	-	-	-	-	-	2.1	-	2.9	3.8	5.3	30.8	37.5	33.3	2.0	3.0	C25
Nose, sinuses etc.	4	0	-	-	-	-	-	-	-	-	2.1	-	-	-	-	-	-	33.3	0.8	0.8	C30-C31
Larynx	21	0	-	-	-	-	-	-	-	-	2.1	-	5.7	3.8	26.3	23.1	50	55.5	2.9	4.4	C32
Trachea, Bronchus, Lung	111	0	-	-	-	-	-	-	1.7	3.8	10.7	12	20	83	52.6	153.8	262.4	189.8	15.5	22.0	C33-C34
Other Thoracic organs	2	0	-	-	-	-	-	1.7	-	-	-	-	-	3.8	-	-	-	-	0.3	0.3	C37-C38
Bone	8	0	-	-	1.5	-	1.8	-	-	-	4.3	-	2.8	-	5.3	7.7	12.5	-	1.1	1.4	C40-C41
Melanoma of Skin	2	0	-	-	1.5	-	-	-	-	-	-	-	-	3.8	-	-	-	-	0.3	0.3	C43
Other Skin	14	0	-	-	1.5	-	-	1.7	-	1.9	-	-	2.9	7.5	-	38.4	25	11.1	2.0	2.7	C44
Mesothelioma	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C45
Kaposi sarcoma	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C46
Connective, Soft tissue	5	0	1.4	-	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7	0.7	C47-C49
Breast	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.4	C50
Peris	3	0	-	-	-	-	-	-	-	-	-	-	2.9	-	3.8	5.3	-	11.1	0.3	0.4	C60
Prostate	56	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.1	0.4	0.6	C61
Testis	3	0	-	-	-	-	1.8	1.7	1.7	-	-	-	2.9	15.1	68.4	76.9	112.5	21.1	7.8	12.3	C62
Other male genital	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	0.4	C63
Kidney	10	0	-	-	-	-	-	-	-	-	2.1	2.4	-	3.8	10.5	23.1	25	-	1.4	2.0	C64
Renal Pelvis	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.1	0.1	0.2	C65
Ureter	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C66
Bladder	37	0	-	1.5	-	-	-	1.7	1.7	1.9	4.3	-	14.3	18.9	10.5	38.4	62.5	100	5.2	7.0	C67
Other Urinary organs	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C68
Eye	1	0	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.2	C69
Brain, Nervous system	19	0	8.3	1.3	1.5	-	3.2	1.7	-	-	2.1	2.4	5.7	11.3	-	7.7	-	-	2.7	2.9	C70-C72
Thyroid	8	0	-	1.3	1.5	-	-	-	-	3.8	2.1	2.4	-	-	15.4	-	-	-	1.1	1.2	C73
Adrenal gland	2	0	1.4	-	-	-	-	-	-	-	-	-	-	3.8	-	-	-	-	0.3	0.3	C74
Other Endocrine	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C75
Hodgkin disease	4	0	-	-	-	-	-	1.8	1.7	-	-	-	-	3.8	-	-	-	-	0.6	0.6	C81
Non-Hodgkin lymphoma	29	0	1.4	3.8	3	1.5	1.8	-	-	3.8	2.1	14.5	5.7	11.3	10.5	7.7	37.5	11.1	4.1	4.7	C82-C85C86
Immunoproliferative dis.	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C86
Multiple Myeloma	4	0	-	-	-	-	-	-	-	-	-	-	-	3.8	-	7.7	25	-	0.8	0.9	C88
Lymphoid Leukaemia	8	0	1.4	1.3	1.5	1.5	1.8	1.7	1.7	-	2.1	-	-	-	-	-	-	-	1.1	1.1	C89
Myeloid Leukaemia	13	0	-	2.8	-	3.1	3.2	3.3	-	3.8	2.1	-	2.9	-	-	-	12.5	-	1.8	1.8	C92-C94
Leukaemia unsp.	5	0	2.8	1.3	-	-	-	-	-	-	-	-	-	-	10.5	-	-	-	0.7	0.9	C95
Other & unspecified	24	0	-	-	3.1	-	-	-	-	-	4.3	-	-	22.6	10.5	30.8	25	86.8	3.4	4.8	Other
All sites Total	847	0	18	12	12	15	14	18	17	33	64	94	148	302	388	853	1025	1122	90.5	122.9	All
All sites but C44	833	0	18	12	12	14	14	17	17	31	64	84	143	284	388	815	1000	1111	88.6	120.2	Not C44

Appendix 49 : CANCER INCIDENCE, SPU RESIDENTS, FEMALES, PENANG, 2004-2008

Site	All Ages	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Crude Rate	ASR World	ICD (10th)
Lip	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	2.9	0	0	0	9.5	7.4	0.4	0.5	C01-C02
Mouth	7	0	0	0	0	0	0	0	0	0	0	2.8	0	0	25.8	9.5	7.4	1.0	1.3	C03-C06
Salivary glands	2	0	0	0	0	0	0	1.8	0	0	0	2.9	0	0	0	0	0	0.3	0.2	C07-C08
Tonsil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0.3	0.4	C09
Other Oropharynx	0	0	0	0	0	0	0	0	0	0	0	0	15.1	0	0	0	0	0.0	0.0	C10
Nasopharynx	9	0	0	0	0	1.8	1.8	0	0	0	2.4	0	0	0	6.4	0	0	1.3	1.3	C11
Hypopharynx	3	0	0	0	0	0	0	0	0	0	0	2.9	3.8	0	0	0	7.4	0.4	0.4	C12-C13
Pharynx unsp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C14
Oesophagus	11	0	0	0	0	0	0	0	0	0	2.4	2.9	3.8	10.3	0	38.1	14.8	1.5	1.9	C15
Stomach	24	0	0	0	0	0	0	0	3.7	4.3	4.8	14.3	3.8	15.4	6.4	47.8	22.2	3.4	3.8	C16
Small intestine	2	0	0	0	0	0	0	0	0	0	0	0	0	0	6.4	9.5	0	0.3	0.4	C17
Colon	45	0	0	0	0	0	3.2	1.8	1.9	12.8	7.2	11.4	11.3	5.1	5.8	47.6	7.4	6.3	7.1	C18
Rectum	35	0	0	0	0	1.6	1.6	1.8	1.9	2.1	0	17.1	15.1	30.8	12.9	57.1	51.8	4.9	5.7	C19-C20
Anus	1	0	0	0	0	0	0	0	0	0	0	0	0	5.1	0	0	0	0.1	0.2	C21
Liver	13	0	0	0	0	0	0	0	0	0	2.4	8.8	7.5	10.3	6.4	0	22.2	1.8	2.1	C22
Gallbladder etc.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	6.4	9.5	0	0.4	0.5	C23-C24
Pancreas	12	0	0	0	0	0	0	0	1.9	2.1	4.8	0	7.5	15.4	12.9	0	7.4	1.7	2.0	C25
Nose, sinuses etc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C30-C31
Larynx	1	0	0	0	0	0	0	0	0	0	0	0	3.8	0	0	0	0	0.1	0.2	C32
Trachea, Bronchus, Lung	43	0	0	0	0	0	0	0	0	2.1	18.9	17.1	15.1	25.8	45.1	47.6	59.2	8.0	7.1	C33-C34
Other Thoracic organs	2	0	0	0	0	0	0	0	0	2.1	0	0	3.8	0	0	0	0	0.3	0.3	C37-C38
Bone	4	0	0	0	0	1.8	1.8	0	0	2.1	0	0	3.8	0	0	0	0	0.6	0.5	C40-C41
Melanoma of Skin	1	0	0	0	0	1.8	1.8	0	0	0	0	0	0	0	0	0	0	0.1	0.1	C43
Other Skin	14	0	0	0	0	1.6	1.6	0	0	0	0	2.8	3.8	10.3	6.4	47.6	22.2	2.0	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	C45
Kapod sarcoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C46
Connective, Soft tissue	8	0	0	0	0	1.8	0	0	0	0	2.4	5.7	0	0	0	9.5	0	0.8	0.9	C47-C49
Breast	228	0	0	0	0	4.8	4.8	8.1	39.2	49.4	83.9	137.1	105.8	164	109.8	38.1	86.6	32.1	34.9	C50
Vulva	3	0	0	0	0	0	0	0	1.9	2.1	0	2.9	0	5.1	0	9.5	0	0.4	0.5	C51
Vagina	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.4	C52
Cervix Uteri	82	0	0	0	0	0	3.2	0	9.3	8.8	4.8	22.8	60.4	35.8	5.8	68.8	14.8	8.7	10.0	C53
Corpus Uteri	28	0	0	0	0	1.8	1.8	0	0	4.3	7.2	17.1	18.9	25.8	6.4	28.8	22.2	4.1	4.7	C54
Uterus unsp.	4	0	0	0	0	0	0	0	0	0	0	2.9	7.5	0	0	9.5	0	0.6	0.6	C55
Ovary	51	0	0	0	0	4.8	4.8	1.8	8.3	8.6	28.5	20	22.8	30.8	6.4	47.6	14.8	7.2	7.7	C56
Other Female Genital	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.5	0	0.1	0.2	C57
Placenta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C58
Kidney	6	0	0	0	0	0	0	0	1.9	0	0	2.9	11.3	5.1	0	0	0	0.8	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	C65
Ureter	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	C66
Bladder	7	0	0	0	0	0	0	0	1.9	0	2.4	2.9	0	5.1	6.4	0	7.4	1.0	1.1	C67
Other Urinary organs	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.4	0.1	0.1	C68
Eye	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	C69
Brain, Nervous system	15	0	0	0	0	1.8	1.8	1.8	5.8	0	4.8	2.9	0	5.1	12.9	0	0	2.1	2.1	C70-C72
Thyroid	11	0	0	0	1.8	1.8	1.8	0	1.9	0	7.2	2.9	3.8	5.1	6.4	0	0	1.5	1.6	C73
Adrenal gland	1	0	0	0	0	0	1.8	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	C75
Hodgkin disease	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	C81
Non-Hodgkin lymphoma	21	0	0	0	1.8	1.8	1.8	0	3.7	2.1	7.2	8.8	3.8	10.3	19.3	9.5	14.8	2.8	3.3	C82-C85/C88
Immunoproliferative dia.	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	2.9	3.8	0	6.4	0	0	0.4	0.5	C90
Lymphoid Leukaemia	15	0	0	0	1.8	1.8	0	0	0	2.1	0	0	0	5.1	0	0	7.4	2.1	2.3	C81
Myeloid Leukaemia	15	0	0	0	1.8	3.2	0	3.3	1.9	2.1	2.4	0	3.8	25.8	0	0	0	2.1	2.3	C82-C84
Leukaemia unsp.	4	0	0	0	0	0	0	1.8	0	2.1	0	0	0	0	6.4	0	0	0.8	0.6	C85
Other & unspecified	18	0	0	0	0	1.8	1.8	0	1.9	2.1	12	5.7	3.8	0	19.3	9.5	14.8	2.7	2.8	Other
All sites Total	748	0	0	0	0	15	18	23	88	112	212	323	343	458	451	581	489	104.7	116.8	All
All sites but C44	732	0	0	0	0	15	18	23	88	112	212	320	339	446	445	533	486	102.8	114.4	Not C44

Appendix 50 : NUMBER OF NEW CASES BY SITES AND AGE GROUP, SPT, MALES, PENANG, 2004-2008

Site	All Ages	Age Unit	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	% of Total	ICD (10th)
Lip	1	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.10%	C00
Tongue	6	:	0	0	0	1	0	1	0	0	1	0	0	0	0	2	0	1	0.70%	C01-C02
Mouth	7	:	0	0	0	0	0	0	0	0	0	1	0	3	0	1	0	2	0.80%	C03-C06
Salivary glands	4	:	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0.50%	C07-C08
Tonsil	2	:	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0.20%	C09
Other Oropharynx	58	:	0	0	1	0	0	1	2	5	10	4	11	9	6	5	2	2	6.80%	C10
Hypopharynx	1	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.10%	C11
Pharynx unsp.	1	:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.10%	C12-C13
Oesophagus	12	:	0	0	0	0	0	0	0	0	0	0	1	2	2	5	0	2	1.40%	C14
Stomach	40	:	0	0	0	0	1	0	1	1	0	3	2	5	5	7	6	9	4.70%	C15
Small intestine	4	:	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0.50%	C16
Colon	79	:	0	0	0	0	0	0	2	2	4	3	5	9	13	12	16	13	9.30%	C17
Rectum	62	:	0	0	0	0	0	0	1	0	1	4	5	8	11	13	7	5	7.30%	C18
Anus	1	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.10%	C19-C20
Liver	41	:	0	0	0	0	1	0	2	0	1	2	8	10	5	4	3	4	4.80%	C21
Gallbladder etc.	6	:	0	0	0	0	0	0	0	0	1	0	0	1	2	1	0	1	0.70%	C22
Pancreas	23	:	0	0	0	0	0	0	0	0	0	3	5	4	0	3	4	3	2.70%	C23-C24
Nose, sinuses etc.	2	:	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0.20%	C25
Larynx	13	:	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	4	1.50%	C26
Trachea, Bronchus, Lung	155	:	0	0	0	0	0	1	0	5	2	13	14	28	24	17	22	29	16.20%	C27-C31
Other Thoracic organs	8	:	0	0	0	0	0	0	0	1	0	0	0	0	2	0	1	0	0.70%	C32
Bone	13	:	0	0	0	0	0	2	0	2	1	0	0	0	0	0	0	1	1.50%	C33-C34
Melanoma of Skin	1	:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.10%	C40-C41
Other Skin	16	:	0	0	0	0	0	1	0	1	1	2	5	2	1	1	0	2	1.90%	C42
Mesothelioma	0	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C43
Kaposi sarcoma	1	:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.10%	C44
Connective, Soft tissue	13	:	0	1	1	1	0	0	0	0	1	1	1	1	0	2	0	2	1.50%	C45
Breast	4	:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.50%	C46
Penis	1	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.10%	C47
Prostate	72	:	0	0	0	0	0	0	0	0	0	0	2	3	4	18	18	18	8.50%	C48
Testis	8	:	0	0	0	1	0	1	2	2	0	0	0	1	0	0	1	0	0.90%	C49
Other male genital	1	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C50
Kidney	22	:	0	1	0	0	0	0	0	3	0	1	3	7	0	2	3	2	2.60%	C51
Renal Pelvis	2	:	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0.20%	C52
Ureter	1	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.10%	C53
Bladder	37	:	0	0	0	0	0	1	0	1	1	5	2	2	3	8	7	7	4.30%	C54
Other Urinary organs	0	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C55
Eye	0	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C56
Brain, Nervous system	22	:	0	0	2	1	1	0	3	0	3	0	3	2	2	1	1	3	2.60%	C57
Thyroid	9	:	0	0	0	1	2	0	1	1	0	0	1	1	1	2	0	0	1.10%	C58
Adrenal gland	1	:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.10%	C59
Other Endocrine	1	:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.10%	C60
Hodgkin disease	9	:	0	0	0	1	0	0	1	2	0	1	2	1	0	0	0	1	1.10%	C61
Non-Hodgkin lymphoma	26	:	0	1	4	1	1	0	2	0	2	1	0	2	6	2	2	2	3.10%	C62
Immunoproliferative dis.	0	:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C63
Multiple Myeloma	3	:	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0.40%	C64
Lymphoid Leukaemia	11	:	0	2	4	0	0	0	1	1	0	0	1	1	0	0	1	0	1.30%	C65
Myeloid Leukaemia	18	:	0	0	0	2	1	0	3	2	2	1	2	2	1	0	1	1	2.10%	C66
Leukaemia unsp.	8	:	0	2	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0.90%	C67
Other & unspecified	27	:	0	1	0	0	0	1	2	1	0	2	5	0	5	6	1	3	3.20%	C68
All sites Total	852	:	0	9	12	4	9	12	8	24	35	57	85	112	111	118	98	121	100.00%	All
All sites but C44	836	:	0	9	12	4	8	11	8	24	34	55	80	110	110	117	98	119	98.10%	Not C44

Appendix 51 : NUMBER OF NEW CASES BY SITES AND AGE GROUP, SPT, FEMALES, PENANG, 2004-2008

Site	All Ages	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	% of Total	ICD (10th)
Up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C00
Tongue	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.40%	C01-C02
Mouth	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.40%	C03-C06
Salivary glands	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C07-C08
Tonsil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C09
Other Oropharynx	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C10
Nasopharynx	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.50%	C11
Hypopharynx	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C12-C13
Pharynx unspc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C14
Oesophagus	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.40%	C15
Stomach	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	2.70%	C16
Small Intestine	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C17
Colon	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	8.30%	C18
Rectum	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	8.40%	C18-C20
Anus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C21
Liver	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2.50%	C22
Gallbladder etc.	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.60%	C23-C24
Pancreas	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1.70%	C25
Nose, sinuses etc.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C30-C31
Larynx	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C32
Trachea, Bronchus, Lung	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	4.90%	C33-C34
Other Thoracic organs	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C37-C38
Bone	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.60%	C40-C41
Melanoma of Skin	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C43
Other Skin	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.00%	C44
Mesothelioma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C45
Kaposi sarcoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C46
Connective, Soft tissue	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.70%	C47-C49
Breast	328	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	33.10%	C50
Vulva	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20%	C51
Vagina	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C52
Cervix Uteri	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7.70%	C53
Corpus Uteri	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4.00%	C54
Uterus unspc.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.40%	C55
Ovary	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4.40%	C56
Other Female Genital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C57
Placenta	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C58
Kidney	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1.30%	C64
Renal Pelvis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C65
Ureter	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10%	C66
Bladder	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.70%	C67
Other Urinary organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C68
Eye	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C69
Brain, Nervous system	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1.80%	C70-C72
Thyroid	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2.00%	C73
Adrenal gland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C74
Other Endocrine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C75
Hodgkin disease	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.40%	C81
Non-Hodgkin lymphoma	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2.30%	C82-C85;C96
Immunoproliferative dis.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C88
Multiple Myeloma	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.60%	C90
Lymphoid Leukaemia	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.60%	C91
Myeloid Leukaemia	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.80%	C92-C94
Leukaemia unspc.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.10%	C95
Other & unspecified	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3.70%	Other
All sites Total	990	0	6	11	2	16	20	13	26	54	75	118	153	125	98	82	89	100.00%	All
All sites but C44	990	0	6	11	2	16	20	13	26	54	75	117	153	125	95	81	89	99.00%	Not C44

Appendix 52 : CANCER INCIDENCE, SPT RESIDENTS, MALES, PENANG, 2004-2008

Site	All Ages	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Crude Rate	ASR World	ICD (10th)
Lip	1 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.1 :	0.1 :	0.2 : C00	
Tongue	8 : 0 :	-	-	-	1.3	-	1.4	-	-	1.8	-	-	-	-	11.8	-	8.1 :	0.7 :	0.9 : C01-C02	
Mouth	7 : 0 :	-	-	-	-	-	-	-	-	-	2	-	9	-	5.9	-	18.2 :	0.8 :	1.0 : C03-C06	
Salivary glands	4 : 0 :	-	-	-	-	-	-	-	3.2	-	-	-	8	-	-	-	-	0.5 :	0.4 : C07-C08	
Tonsil	2 : 0 :	-	-	-	-	-	-	1.5	-	-	-	-	3	-	-	-	-	0.2 :	0.2 : C09	
Other Oropharynx	1 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	4.1	-	-	-	0.1 :	0.2 : C10	
Nasopharynx	58 : 0 :	-	1.3	-	-	-	1.4	2.9	8	17.5	7.8	25.3	28.9	24.5	29.4	19	18.2 :	8.9 :	7.4 : C11	
Hypopharynx	1 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5	-	0.1 :	0.2 : C12-C13	
Pharynx unsp.	1 : 0 :	-	-	-	-	-	-	-	-	-	-	2.3	-	-	-	-	-	0.1 :	0.1 : C14	
Oesophagus	12 : 0 :	-	-	-	-	-	-	-	-	-	-	2.3	6	8.2	29.4	-	18.2 :	1.4 :	1.9 : C15	
Stomach	40 : 0 :	-	-	-	-	1.4	-	1.5	1.8	-	5.9	4.8	14.9	20.4	41.2	57.1	81.8 :	4.7 :	6.3 : C16	
Small Intestine	4 : 0 :	-	-	-	-	-	4	-	-	-	2	-	-	-	5.8	8.5	8.1 :	0.5 :	0.7 : C17	
Colon	79 : 0 :	-	-	-	-	-	-	2.9	3.2	7	5.9	11.5	28.9	53	70.6	152.3	118.1 :	9.4 :	12.4 : C18	
Rectum	82 : 0 :	-	-	-	-	-	1.4	-	1.8	7	9.8	13.8	28.9	44.9	78.4	88.6	45.4 :	7.4 :	8.3 : C18-C20	
Anus	1 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.1 :	0.1 :	0.2 : C21	
Liver	41 : 0 :	1.2	-	-	-	1.4	-	2.9	-	1.8	3.9	18.4	29.8	20.4	23.5	28.8	36.3 :	4.8 :	5.7 : C22	
Gallbladder etc.	6 : 0 :	-	-	-	-	-	-	-	-	1.8	-	-	3	8.2	5.9	-	9.1 :	0.7 :	0.9 : C23-C24	
Pancreas	23 : 0 :	-	-	-	-	-	-	-	-	5.3	9.8	9.2	-	12.2	23.5	9.5	27.3 :	2.7 :	3.3 : C25	
Nose, sinuses etc.	2 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	4.1	5.8	-	-	0.2 :	0.3 : C30-C31	
Larynx	13 : 0 :	-	-	-	-	-	-	-	-	-	-	6.9	3	12.2	5.9	9.5	36.3 :	1.5 :	2.0 : C32	
Trachea, Bronchus, Lung	155 : 0 :	-	-	-	-	-	1.4	-	8	3.5	25.5	32.2	83.5	97.9	100	209.4	263.5 :	18.4 :	23.7 : C33-C34	
Other Thoracic organs	8 : 0 :	-	-	-	-	2.8	-	-	1.8	-	-	-	-	8.2	-	9.5	-	0.7 :	0.8 : C37-C38	
Bone	13 : 0 :	-	-	-	-	2.8	1.4	2.9	3.2	1.8	-	-	9	4.1	-	-	9.1 :	1.5 :	1.5 : C40-C41	
Melanoma of Skin	1 : 0 :	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	0.1 :	0.1 : C43	
Other Skin	16 : 0 :	-	-	-	-	1.4	-	-	1.8	1.8	3.9	11.5	6	4.1	5.9	-	16.2 :	1.9 :	2.1 : C44	
Mesothelioma	0 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0 :	0.0 : C45	
Kaposi sarcoma	1 : 0 :	-	-	-	-	-	-	-	1.8	-	-	-	-	-	-	-	-	0.1 :	0.1 : C46	
Connective, Soft tissue	13 : 0 :	1.2	1.1	1.3	1.3	-	-	1.8	1.8	1.8	2	2.3	3	-	11.8	-	16.2 :	1.5 :	1.8 : C47-C48	
Breast	4 : 0 :	-	-	-	-	-	-	-	-	-	2	-	6	-	5.9	-	-	0.5 :	0.5 : C50	
Penis	1 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.1 :	0.1 :	0.2 : C60	
Prostate	72 : 0 :	-	-	-	-	-	1.4	2.9	3.2	-	-	3.9	11.9	36.7	105.8	171.4	163.8 :	8.5 :	12.4 : C61	
Testis	8 : 0 :	-	-	-	1.3	-	-	-	-	-	-	-	3	-	-	9.5	-	0.9 :	0.9 : C62	
Other male genital	1 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	4.1	-	-	-	0.1 :	0.2 : C63	
Kidney	22 : 0 :	-	1.1	-	-	-	-	-	4.8	-	2	8.9	20.9	-	11.8	28.8	18.2 :	2.8 :	3.0 : C64	
Renal Pelvis	2 : 0 :	-	-	-	-	-	-	-	-	-	-	2.3	-	-	5.9	-	-	0.2 :	0.3 : C65	
Ureter	1 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.5	-	0.1 :	0.2 : C66	
Bladder	37 : 0 :	-	-	-	-	-	1.4	-	1.8	1.8	9.8	4.8	6	12.2	47	68.8	83.8 :	4.4 :	5.9 : C67	
Other Urinary organs	0 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0 :	0.0 : C68	
Eye	0 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0 :	0.0 : C69	
Brain, Nervous system	22 : 0 :	-	-	2.6	1.3	1.4	-	4.4	-	5.3	-	6.9	6	6.2	5.9	9.5	27.3 :	2.8 :	2.9 : C70-C72	
Thyroid	9 : 0 :	-	-	-	1.3	2.8	-	-	1.8	-	-	2.3	3	4.1	11.8	-	-	1.1 :	1.2 : C73	
Adrenal gland	1 : 0 :	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	0.1 :	0.1 : C74	
Other Endocrine	1 : 0 :	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	0.1 :	0.1 : C75	
Hodgkin disease	8 : 0 :	-	-	-	1.3	-	-	1.5	3.2	-	2	4.6	3	-	-	-	9.1 :	1.1 :	1.0 : C81	
Non-Hodgkin lymphoma	28 : 0 :	1.2	4.5	-	1.3	1.4	-	2.9	-	3.5	2	-	6	24.5	11.8	19	18.2 :	3.1 :	3.6 : C82-C85,C86	
Immunoproliferative dis.	0 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0 :	0.0 : C88	
Multiple Myeloma	3 : 0 :	-	-	-	-	-	-	-	-	-	-	-	-	8.2	-	9.5	-	0.4 :	0.5 : C90	
Lymphoid Leukaemia	11 : 0 :	2.5	4.5	-	-	-	-	1.5	1.8	-	-	2.3	3	-	-	-	-	1.3 :	1.4 : C91	
Myeloid Leukaemia	16 : 0 :	-	-	-	2.7	1.4	-	4.4	3.2	3.5	2	4.6	6	4.1	-	9.5	8.1 :	2.1 :	2.1 : C92-C94	
Leukaemia unsp.	8 : 0 :	3.7	2.2	-	-	-	-	-	-	-	2	2.3	-	4.1	-	-	-	0.8 :	1.1 : C95	
Other & unspecified	27 : 0 :	1.2	-	-	-	-	1.4	2.9	1.8	-	3.9	11.5	-	20.4	35.3	8.5	27.3 :	3.2 :	4.0 : Other	
All sites Total	852 : 0 :	11	13	5	12	17	11	35	56	85	112	195	334	453	884	833	1100 :	101.1 :	125.3 : All	
All sites but C44	836 : 0 :	11	13	5	12	15	11	35	54	83	108	184	328	449	868	833	1081 :	99.2 :	123.2 : Not C44	

Appendix 53 : CANCER INCIDENCE, SPT RESIDENTS, FEMALES, PENANG, 2004-2008

Site	All Ages	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Crude Rate	ASR World (10th)	ICD (10th)
Lip	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0 : C00	
Tongue	4 : 0	-	-	-	-	-	-	-	-	-	2	-	-	4	-	-	11.4	0.5	0.5 : C01-C02	
Mouth	4 : 0	-	-	-	-	-	-	-	-	-	-	2.3	3	-	5.1	-	5.7	0.5	0.5 : C03-C06	
Salivary glands	2 : 0	-	-	-	1.4	-	-	-	-	-	-	-	3	-	-	-	-	0.2	0.2 : C07-C08	
Tonsil	1 : 0	-	-	-	-	-	-	-	-	1.8	-	-	-	-	-	-	-	0.1	0.1 : C09	
Other Oropharynx	1 : 0	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	0.1	0.1 : C10	
Nasopharynx	15 : 0	-	-	-	1.4	-	1.4	1.4	1.8	3.8	4	4.6	-	12	5.1	7.1	-	1.8	1.9 : C11	
Hypopharynx	1 : 0	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	0.1	0.1 : C12-C13	
Pharynx unsp. spec.	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0 : C14	
Oesophagus	4 : 0	-	-	-	-	-	-	-	-	-	-	-	3	-	5.1	7.1	5.7	0.5	0.5 : C15	
Stomach	27 : 0	-	-	-	-	-	-	-	1.8	-	4	6.8	8	8	10.3	28.8	82.8	3.2	3.4 : C16	
Small intestine	1 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1 : C17	
Colon	82 : 0	-	-	-	1.4	-	-	1.4	4.8	7.1	7.9	34.5	35.8	28	86.6	35.7	97.1	9.8	10.3 : C18	
Rectum	63 : 0	-	-	-	-	-	-	-	3.2	3.8	7.8	20.7	32.8	28	20.5	92.8	82.8	7.8	8.1 : C19-C20	
Anus	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0 : C21	
Liver	25 : 0	1.3	-	-	-	1.4	-	-	-	-	5.8	4.6	11.9	4	25.8	28.8	22.8	3.0	3.3 : C22	
Gallbladder etc.	6 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0 : C23	
Pancreas	17 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.4	17.1	0.7	0.8 : C23-C24	
Nose, sinuses etc.	1 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.3	17.1	2.0	2.2 : C25	
Larynx	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.1	-	0.1	0.1 : C30-C31	
Trachea, Bronchus, Lung	48 : 0	-	-	-	-	-	-	-	-	-	4	23	28.8	28	35.8	35.7	51.4	5.9	8.4 : C33-C34	
Other Thoracic organs	2 : 0	-	-	-	-	1.4	-	-	-	-	2	-	3	-	-	-	-	0.2	0.2 : C37-C38	
Bone	8 : 0	-	1.2	-	2.8	-	-	1.4	-	1.8	2	-	-	-	-	-	5.7	0.7	0.7 : C40-C41	
Melanoma of Skin	1 : 0	-	-	-	-	1.4	1.4	-	-	-	-	-	-	4	-	-	-	0.1	0.2 : C43	
Other Skin	10 : 0	-	-	-	-	-	-	-	-	-	2	2.3	8	4	5.1	7.1	-	1.2	1.3 : C44	
Mesothelioma	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0 : C45	
Kaposi sarcoma	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0 : C46	
Connective, Soft tissue	7 : 0	-	-	-	-	-	-	-	-	-	2	2.3	3	-	-	-	-	0.8	0.8 : C47-C49	
Breast	328 : 0	-	-	-	-	7.1	5.8	12.7	38.5	80.3	118.8	142.5	116.4	120	102.5	128.5	74.3	39.4	38.8 : C50	
Vulva	2 : 0	-	-	-	-	-	-	-	-	-	2	-	-	-	-	7.1	-	0.2	0.3 : C51	
Vagina	1 : 0	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	0.1	0.2 : C52	
Cervix Uteri	78 : 0	-	-	-	-	-	1.4	11.3	8.3	17.8	17.8	23	35.8	44	25.8	14.3	22.8	9.1	8.2 : C53	
Corpus Uteri	40 : 0	-	-	-	-	-	-	1.4	7.9	1.8	9.8	27.8	11.9	4	30.8	14.3	17.1	4.8	4.8 : C54	
Uterus unsp. spec.	4 : 0	-	-	-	-	-	-	-	-	-	-	-	8	4	-	-	5.7	0.5	0.5 : C55	
Ovary	44 : 0	-	-	-	2.9	-	1.4	-	8.5	7.1	13.9	18.1	17.9	16	15.4	21.4	5.7	5.3	5.4 : C56	
Other Female Genital	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0 : C57	
Placenta	1 : 0	-	-	-	-	-	1.4	-	-	-	7.9	4.6	-	12	5.1	7.1	5.7	1.6	1.7 : C64	
Kidney	13 : 0	-	1.2	-	-	-	-	-	-	1.8	-	-	-	-	-	-	-	0.1	0.1 : C58	
Renal Pelvis	1 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1 : C65	
Ureter	1 : 0	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	0.1	0.2 : C66	
Bladder	7 : 0	-	-	-	-	-	-	-	-	-	2	2.3	-	-	15.4	14.3	-	0.8	1.0 : C67	
Other Urinary organs	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0 : C68	
Eye	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0 : C69	
Brain, Nervous system	18 : 0	2.7	4.8	-	4.3	2.8	-	-	-	-	-	2.3	6	12	-	-	5.7	2.2	2.4 : C70-C72	
Thyroid	20 : 0	-	-	-	1.4	1.4	1.4	2.8	4.8	3.8	-	2.3	3	-	20.5	21.4	5.7	2.4	2.4 : C73	
Adrenal gland	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0 : C74	
Other Endocrine	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0 : C75	
Hodgkin disease	4 : 0	-	-	-	2.9	1.4	-	-	-	-	-	-	-	-	-	-	-	0.5	0.5 : C81	
Non-Hodgkin lymphoma	23 : 0	-	-	1.4	-	2.8	1.4	1.4	3.2	1.8	-	11.5	9	4	5.1	14.3	22.8	2.8	2.7 : C82-C85C86	
Immunoproliferative dis.	0 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0 : C88	
Multiple Myeloma	8 : 0	-	-	-	-	-	-	-	-	-	2	-	3	-	10.3	7.1	11.4	0.7	0.8 : C90	
Lymphoid Leukaemia	6 : 0	1.3	1.2	1.4	1.4	2.8	-	-	1.8	-	-	-	-	-	-	7.1	-	0.7	0.8 : C91	
Myeloid Leukaemia	28 : 0	1.3	4.8	1.4	1.4	2.8	-	-	1.8	1.8	9.9	8.9	14.9	4	10.3	7.1	-	3.4	3.5 : C92-C94	
Leukaemia unsp. spec.	1 : 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.7	0.1	0.1 : C95	
Other & unspecified	37 : 0	1.3	-	-	1.4	2.8	2.8	2.8	3.2	-	-	4.8	14.9	24	35.9	28.8	17.1	4.4	4.8 : Other	
All sites Total	980 : 0	8	13	3	23	28	18	37	86	134	234	354	382	384	481	585	565	118.8	122.8	All
All sites but C44	980 : 0	8	13	3	23	27	17	37	86	134	232	352	373	380	456	578	565	117.8	121.8	Not C44

Appendix 54 : NUMBER OF NEW CASES BY SITES AND AGE GROUP, SPS, MALES, PENANG, 2004-2008

Site	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	% of Total	ICD (10th)
Lip	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.30%	C00
Tongue	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	0	1.50%	C01-C02
Mouth	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0.90%	C03-C06
Salivary glands	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.30%	C07-C08
Tonsil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C09
Other Oropharynx	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C10
Nasopharynx	32	0	0	0	0	0	1	0	3	4	8	3	6	8	2	0	1	0	9.50%	C11
Hypopharynx	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.30%	C12-C13
Pharynx unsp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C14
Oesophagus	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	0	1.50%	C15
Stomach	13	0	0	0	0	0	0	0	1	1	0	0	0	0	2	1	2	8	3.80%	C16
Small Intestine	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C17
Colon	27	0	0	0	0	0	0	0	0	1	2	1	0	4	3	8	2	8	8.00%	C18
Rectum	28	0	0	0	0	0	0	0	0	1	3	4	1	4	7	1	3	2	7.70%	C19-C20
Anus	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.30%	C21
Liver	21	0	0	0	0	0	0	0	2	1	3	1	2	2	3	2	2	3	6.20%	C22
Gallbladder etc.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.30%	C23-C24
Pancreas	8	0	0	0	0	0	0	0	0	1	0	2	0	3	0	1	0	1	2.40%	C25
Nose, sinuses etc.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.30%	C30-C31
Larynx	13	0	0	0	0	0	0	0	0	1	0	0	2	3	2	1	2	2	3.80%	C32
Trachea,Bronchus,Lung	60	0	0	0	0	1	0	1	0	2	4	1	4	7	13	9	6	12	17.80%	C33-C34
Other Thoracic organs	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.30%	C37-C38
Bone	4	0	0	0	0	2	0	0	0	0	1	0	1	0	0	0	0	0	1.20%	C40-C41
Melanoma of Skin	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.30%	C43
Other Skin	7	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	3	0	2.10%	C44
Mesothelioma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C45
Kaposi sarcoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C46
Connective,Tuft tissue	3	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0.90%	C47;C49
Breast	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.30%	C50
Penis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.30%	C60
Prostate	16	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	4	7	4.70%	C61
Testis	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C62
Other male genital	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C63
Kidney	7	0	0	0	0	0	0	0	0	0	1	1	2	0	0	2	1	0	2.10%	C64
Renal Pelvis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C65
Ureter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C66
Bladder	19	0	0	0	0	0	0	0	0	0	0	0	0	3	2	2	4	4	5.60%	C67
Other Urinary organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C68
Eye	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.30%	C69
Brain, Nervous system	7	0	1	0	0	0	0	0	1	0	0	0	0	2	1	0	0	1	2.10%	C70-C72
Thyroid	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0.90%	C73
Adrenal gland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C74
Other Endocrine	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.30%	C75
Hodgkin disease	3	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0.80%	C81
Non-Hodgkin lymphoma	13	0	0	0	0	1	0	0	0	1	0	2	2	0	0	5	2	0	3.80%	C82-C85;C96
Immunoproliferative dis.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C86
Multiple Myeloma	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.30%	C89
Lymphoid Leukaemia	7	0	1	3	0	0	0	0	2	0	0	0	1	0	0	0	0	0	2.10%	C91
Myeloid Leukaemia	6	0	0	0	0	0	0	1	0	0	0	0	1	0	1	1	0	0	1.80%	C92-C94
Leukaemia unsp.	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C95
Other & unspecified	10	0	0	0	0	0	0	0	0	1	1	2	0	2	2	1	0	1	3.00%	Other
All sites Total	339	0	6	5	1	7	2	4	9	17	26	21	24	39	43	50	38	48	100.00%	All
All sites but C44	331	0	6	5	1	7	2	4	8	17	26	21	23	39	42	48	35	46	97.90%	Not C44

Appendix 55 : NUMBER OF NEW CASES BY SITES AND AGE GROUP, SPS, FEMALES, PENANG, 2004-2008

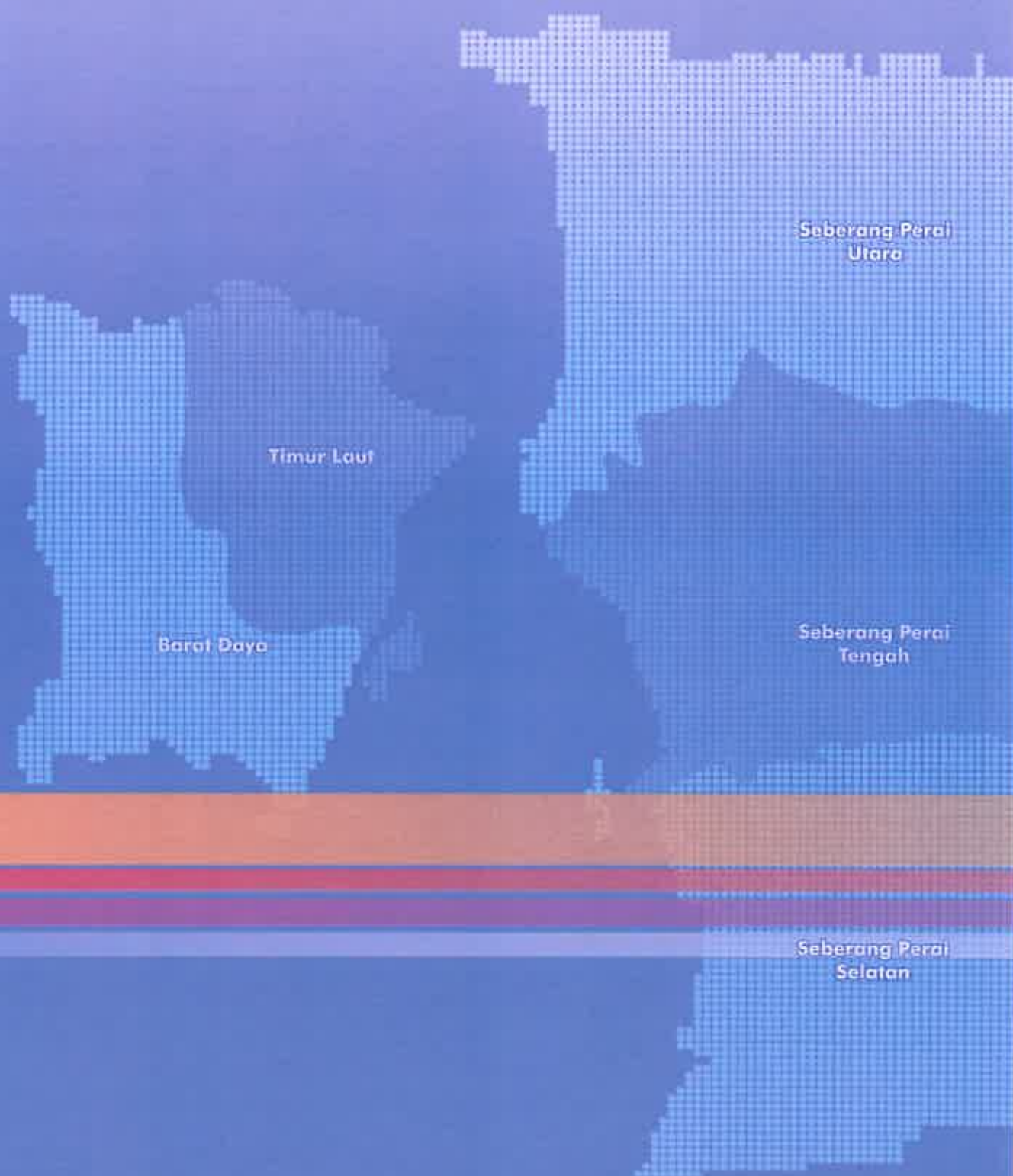
Site	All Ages	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	% of Total	ICD (10th)
Lip	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C00
Tongue	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.80%	C01-C02
Mouth	6	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	1.60%	C03-C06
Salivary glands	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C07-C08
Tonsil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C09
Other Oropharynx	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.30%	C10
Nasopharynx	12	0	0	0	1	0	1	0	0	1	2	2	0	3	0	2	0	3.30%	C11
Hypopharynx	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C12-C13
Pharynx unsp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C14
Oesophagus	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0.50%	C15
Stomach	13	0	0	0	0	0	0	1	2	1	1	2	0	1	1	1	3	3.80%	C16
Small intestine	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.30%	C17
Colon	29	0	0	0	0	0	0	2	1	1	2	1	5	3	4	6	3	8.00%	C18
Rectum	16	0	0	0	0	0	0	1	0	1	1	1	2	4	2	2	3	4.40%	C19-C20
Anus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C21
Liver	7	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	1.80%	C22
Gallbladder etc.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.50%	C23-C24
Pancreas	2	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0.50%	C25
Noise, sinuses etc.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C30-C31
Larynx	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.30%	C32
Trachea, Bronchus, Lung	13	0	0	0	0	0	0	0	0	1	1	0	3	1	4	2	1	3.60%	C33-C34
Other Thoracic organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C37-C38
Bone	3	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.80%	C40-C41
Melanoma of Skin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C43
Other Skin	9	0	0	0	0	1	0	0	0	0	0	1	2	0	1	0	4	2.50%	C44
Mesothelioma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C45
Kaposi sarcoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C46
Connective Soft tissue	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C47-C49
Breast	92	0	0	0	0	1	2	12	6	13	17	15	8	8	3	5	2	25.30%	C50
Vulva	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.30%	C51
Vagina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C52
Cervix Uteri	38	0	0	0	0	1	0	2	3	5	6	4	5	5	3	2	2	10.40%	C53
Corpus Uteri	14	0	0	0	0	0	0	0	1	1	1	3	3	2	1	2	0	3.80%	C54
Uterus unsp.	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.30%	C55
Ovary	23	0	0	0	0	1	0	0	4	2	4	5	1	1	2	3	0	6.30%	C56
Other Female Genital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C57
Placenta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C58
Kidney	9	0	0	0	0	1	0	0	0	1	1	1	1	2	1	1	0	2.50%	C59
Renal Pelvis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C64
Ureter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C65
Bladder	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C66
Other Urinary organs	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	1	2	1.80%	C67
Eye	2	0	0	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0.00%	C68
Brain, Nervous system	11	0	1	0	0	0	0	0	1	1	0	1	0	0	1	1	0	0.50%	C69
Thyroid	7	0	0	0	0	1	1	0	2	0	1	0	0	0	1	1	0	3.00%	C70-C72
Adrenal gland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.90%	C73
Other Endocrine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.30%	C74
Hodgkin disease	2	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0.50%	C75
Non-Hodgkin lymphoma	9	0	2	0	0	1	0	1	0	1	0	1	0	2	0	1	0	2.50%	C81
Immunoproliferative dis.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	C82-C85/C86
Multiple Myeloma	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0.80%	C88
Lymphoid Leukaemia	8	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1.80%	C89
Myeloid Leukaemia	3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0.80%	C91
Leukaemia unsp.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.50%	C92-C94
Other & unspecified	10	0	0	0	1	1	0	0	1	1	2	0	0	1	0	2	1	2.70%	C95
All sites Total	364	6	4	3	8	11	5	18	23	29	42	45	34	37	33	37	29	100.00%	All
All sites but C44	355	6	4	3	8	10	5	18	23	28	41	45	32	37	32	37	25	97.50%	Not C44

Appendix 56 : CANCER INCIDENCE, SPS RESIDENTS, MALES, PENANG, 2004-2008

Site	All Ages	Age Unk.	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Crude Rate	ASR World	ICD (10th)
Up	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.4	C00
Tongue	5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	2.0	C01-C02
Mouth	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8	1.1	C03-C08
Salivary glands	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.4	C07-C08
Tonsil	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C09
Neopharynx	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C10
Hypopharynx	32	0	-	-	-	-	3.3	-	10.3	14.8	24	13.3	31.6	41.4	19	-	22.2	-	8.9	8.4	C11
Pharynx unspc.	1	0	-	-	-	-	-	-	-	-	-	-	-	8.9	-	-	-	-	0.3	0.3	C12-C13
Oesophagus	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C14
Stomach	5	0	-	-	-	-	-	-	-	-	-	-	-	-	9.5	26.7	44.4	-	1.4	2.1	C15
Small Intestine	13	0	-	-	-	-	-	-	3.4	3.7	-	-	-	-	19	13.3	44.4	133.3	3.8	5.1	C16
COLON	1	0	-	-	-	-	-	-	-	-	-	-	-	-	9.5	-	-	-	0.3	0.4	C17
Rectum	27	0	-	-	-	-	-	-	-	3.7	8	4.4	-	27.8	28.8	106.8	44.4	133.3	7.5	10.0	C18
Anus	26	0	-	-	-	-	-	-	-	3.7	12	17.8	5.3	27.8	66.8	13.3	66.8	44.4	7.2	8.7	C19-C20
Liver	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.3	C21
Gallbladder etc.	21	0	-	-	-	-	-	-	6.8	3.7	12	4.4	10.5	13.8	28.8	28.7	44.4	66.8	5.8	8.9	C22
Pancreas	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.4	C23-C24
Nose, sinuses etc.	8	0	-	-	-	-	-	-	-	3.7	-	-	-	20.7	-	13.3	22.2	-	2.2	2.4	C25
Larynx	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	13.3	-	-	0.3	0.4	C30-C31
Trachea, Bronchus, Lung	13	0	-	-	-	-	-	-	-	3.7	-	-	10.5	20.7	19	13.3	44.4	44.4	3.8	4.5	C32
Other Thoracic organs	60	0	-	-	-	3.2	3.4	-	-	7.4	16	4.4	21	48.3	123.8	120	133.3	266.6	16.7	21.8	C33-C34
Bone	1	0	-	-	-	-	-	-	-	-	-	-	-	-	9.5	-	-	-	0.3	0.4	C37-C38
Melanoma of Skin	4	0	-	-	-	6.3	-	-	-	-	4	-	5.3	-	-	-	-	-	1.1	1.1	C40-C41
Other Skin	1	0	-	-	-	-	-	-	-	3.7	-	-	-	-	-	-	-	-	0.3	0.2	C43
Mesothelioma	7	0	-	-	-	-	-	-	-	-	-	-	5.3	-	9.5	26.7	66.8	-	1.9	2.8	C44
Kaposi sarcoma	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C45
Connective Soft tissue	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C46
Breast	3	0	-	-	-	-	3.4	-	-	-	4	4.4	-	-	-	-	-	-	0.8	0.8	C47-C49
Prostate	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.3	C50
Testis	16	0	-	-	3.1	-	-	-	-	-	-	-	-	-	-	13.3	-	-	0.3	0.4	C60
Other male genital	3	0	-	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.4	C61
Kidney	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.4	6.8	C62
Renal Pelvis	7	0	-	-	-	-	-	-	-	-	4	4.4	10.5	-	-	-	-	-	1.8	2.3	C63
Ureter	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C64
Bladder	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C65
Other Urinary organs	19	0	-	-	-	-	-	-	-	3.7	8	4.4	-	20.7	19	26.7	88.9	88.9	5.3	8.9	C66
Eye	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C67
Brain, Nervous system	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C68
Thyroid	7	0	3	2.8	-	-	-	-	3.4	-	-	-	-	13.8	9.5	-	-	22.2	1.9	2.2	C69
Adrenal gland	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	13.3	22.2	-	0.8	1.1	C70-C72
Other Endocrine	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C73
Hodgkin disease	1	0	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	0.0	0.0	C74
Non-Hodgkin lymphoma	3	0	-	-	-	6.3	-	-	-	-	-	-	5.3	-	-	-	-	-	0.3	0.2	C75
Immunoproliferative dia.	13	0	-	-	-	3.2	-	-	-	3.7	-	8.9	10.5	-	-	66.8	44.4	-	3.6	4.5	C82-C85,C88
Multiple Myeloma	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C86
Lymphoid Leukaemia	1	0	-	-	-	-	-	-	-	3.7	-	-	-	-	-	-	-	-	0.3	0.2	C87
Myeloid Leukaemia	7	0	3	7.8	-	-	-	-	6.8	-	-	-	5.3	-	-	-	-	-	1.8	1.8	C88
Leukemia unspc.	6	0	3	-	-	3.4	-	-	-	-	4	-	5.3	-	9.5	13.3	-	-	1.7	1.8	C89
Other & unspecified	2	0	3	-	-	3.2	-	-	-	-	-	-	-	-	-	-	-	-	0.8	0.8	C92-C94
All sites Total	10	0	-	-	-	-	-	-	-	3.7	4	8.9	-	13.8	19	13.3	-	22.2	2.8	3.2	Other
All sites but C44	338	0	18	13	3	22	7	14	31	83	104	83	126	289	409	668	844	1022	94.0	115.8	All
	331	0	18	13	3	22	7	14	31	83	104	83	121	289	400	640	777	1022	92.0	112.8	Nd C44

Appendix 57 : CANCER INCIDENCE, SPS RESIDENTS, FEMALES, PENANG, 2004-2008

Site	All Ages	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Crude Rate	ASR World	ICD (10th)
Lip	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	3.7	0	0	5.3	0	0	0	18.7	0	0.9	0.8	C01-C02
Mouth	6	0	0	0	0	0	0	0	0	0	0	0	6.9	9.5	11.8	18.7	28.7	1.7	1.9	C03-C08
Salivary glands	1	0	0	0	0	0	0	0	0	0	0	5.3	0	0	0	0	0	0.3	0.3	C07-C08
Tonsil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C08
Other Oropharynx	1	0	0	0	0	0	0	0	0	0	0	5.3	0	0	0	0	0	0.3	0.3	C10
Nasopharynx	12	0	0	0	3.4	0	3.4	0	0	4.2	9.1	10.5	0	28.8	0	33.3	0	3.4	3.7	C11
Hypopharynx	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C12-C13
Pharynx unsp. spec.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C14
Oesophagus	2	0	0	0	0	0	0	0	0	0	0	0	0	0	23.5	0	0	0.6	0.7	C15
Stomach	13	0	0	0	0	0	0	3.4	7.4	4.2	4.5	10.5	0	9.5	11.8	18.7	40	3.7	3.6	C16
Small Intestine	1	0	0	0	0	0	0	0	0	0	0	5.3	0	0	0	0	0	0.3	0.3	C17
Colon	29	0	0	0	0	3.4	0	8.8	3.7	4.2	9.1	5.3	34.5	28.8	35.3	68.8	80	8.2	8.5	C18
Rectum	16	0	0	0	0	0	0	3.7	0	0	4.5	5.3	13.8	38.1	23.5	33.3	40	4.6	5.0	C19-C20
Anus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C21
Liver	7	0	0	0	0	0	0	0	0	0	0	5.3	8.8	0	47	18.7	13.3	2.0	2.3	C22
Gallbladder etc.	2	0	0	0	0	0	0	0	0	0	0	5.3	0	0	0	0	0	0.6	0.5	C23-C24
Pancreas	2	0	0	0	0	0	0	0	0	0	0	0	8.9	0	11.8	0	0	0.8	0.6	C25
Nose, sinuses etc.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18.7	0	0.3	0.3	C30-C31
Larynx	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18.7	0	0.3	0.3	C32
Trachea, Bronchus, Lung	13	0	0	0	0	0	0	0	0	4.2	4.5	0	20.7	9.5	47	33.3	13.3	3.7	4.1	C33-C34
Other Thoracic organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C37-C38
Bone	3	0	0	3.4	3.4	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1.0	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	C43
Other Skin	9	0	0	0	0	3.4	0	0	0	0	4.5	0	13.8	0	11.8	0	53.3	2.6	2.5	C44
Mesothelioma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C45
Kaposi sarcoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C46
Connective Soft tissue	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C47-C49
Breast	92	0	0	0	0	3.4	6.8	40.7	22.2	54.1	77.2	78.8	55.1	78.2	35.3	83.3	28.7	26.2	24.9	C50
Vulva	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.3	0.3	0.3	C51
Vagina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C52
Cervix Uteri	38	0	0	0	0	0	0	8.8	11.1	20.8	27.3	21	34.5	47.6	35.3	33.3	28.7	10.8	10.8	C53
Corpus Uteri	14	0	0	0	0	0	0	0	3.7	4.2	4.5	15.8	20.7	19	11.8	33.3	0	4.0	4.1	C54
Uterus unsp. spec.	1	0	0	0	0	0	0	0	0	0	0	0	9.5	0	0	0	0	0.3	0.4	C55
Ovary	23	0	0	0	0	0	0	0	14.8	8.3	18.2	28.3	6.9	9.5	23.5	50	0	6.5	6.4	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	C57
Pleocenta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C58
Kidney	8	0	0	0	0	0	0	0	0	4.2	4.5	5.3	6.9	19	11.8	18.7	0	2.6	2.8	C64
Renal Pelvis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C65
Ureter	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	10.5	0	0	11.8	18.7	28.7	1.7	1.7	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	C68
Eye	2	0	0	0	0	0	0	0	0	0	0	5.3	0	0	0	0	13.3	0.6	0.5	C69
Brain, Nervous system	11	0	0	0	0	3.4	0	0	3.7	4.2	0	5.3	0	9.5	11.8	18.7	0	3.1	3.4	C70-C72
Thyroid	7	0	0	0	0	3.4	3.4	0	7.4	0	4.5	0	0	0	11.8	18.7	0	2.0	1.9	C73
Adrenal gland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	C74
Other Endocrine	1	0	0	0	0	0	0	0	0	0	0	0	6.9	0	0	0	0	0.3	0.3	C75
Hodgkin disease	2	0	0	0	0	0	3.4	0	0	0	0	0	0	0	0	0	0	0.6	0.6	C81
Non-Hodgkin lymphoma	9	0	0	0	0	3.4	0	3.4	0	4.2	0	5.3	0	19	0	16.7	0	2.6	2.7	C82-C85/C98
Immunoproliferative dia.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	C86
Multiple Myeloma	3	0	0	0	0	0	0	0	0	0	0	0	0	9.5	11.8	18.7	0	0.9	1.1	C88
Lymphoid Leukaemia	6	0	0	0	0	3.4	0	0	0	0	0	0	0	0	0	0	0	1.7	2.0	C89
Myeloid Leukaemia	3	0	0	0	0	0	0	0	0	0	8.1	0	0	0	0	18.7	0	0.9	0.9	C92-C94
Leukemia unsp. spec.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0.8	C95
Other & unspecified	10	0	0	0	0	3.4	3.4	0	3.7	4.2	9.1	0	0	9.5	0	33.3	13.3	2.9	2.9	Other
All sites Total	384	0	19	11	10	28	38	61	85	121	191	237	234	352	385	618	387	103.5	105.7	All
All sites but C44	355	0	18	11	10	28	34	61	85	121	188	237	221	352	378	618	333	101.0	103.2	Not C44



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