



MALAYSIA NATIONAL CANCER REGISTRY REPORT (MNCR) 2012-2016

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PREFACE

This is the second five-year report of the Malaysia National Cancer Registry (MNCR) since it was established in all states in 2007. The first five-year report for the incidence period of 2007-2011 was published in 2016. The data reported in this report were gathered from 13 states and 2 federal territories population-based cancer registries in the country.

This report is based on new cancers diagnosed in Malaysia for the period of 1st January 2012 through to 31st December 2016 and only captured for Malaysian citizens and residents. The cancer registry database is dynamic, and the data are continually updated in the light of the most recent available information. Accordingly, the numbers in this report for the earlier years may vary slightly from those in previous publications. The data reported in this report were as they stood on the 31st June 2019.

This publication should help health professionals, policy-makers and researchers to identify and make decisions about areas that need more attention and investigation. This publication may also be valuable for the media, educators and members of the public with an interest in cancer. Cancer trends should be interpreted by examining rates over the past several years. This is because there is some random variation in the incidence rates from one year to another. Further, the numbers for latest years might be slightly under reported due to delayed notification of cancer cases as the notification is not mandatory in Malaysia.

The registry collects and disseminates 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. 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 material.

We wish to record our thanks to all participating hospitals, clinics, institutions, and laboratories for their cooperation and regular notifications to the respective state cancer registries. We also wish to extend our appreciation to Health Informatics Centre (HIC), Ministry of Health and National Registration Department for their assistance.

Editorial Team

FOREWORD



I would like to acknowledge the admirable teamwork by National Cancer Registry and States Cancer Registries team members who have been involved in producing, gathering and processing the data for the Malaysia National Cancer Registry (MNCR) for the incidence year of 2012-2016.

This is the second five-year MNCR report published by the National Cancer Institute. It is a continuation of report which was produced earlier in 2016 for the incidence year of 2007-2011. This makes us to perceive the cancer trend from all aspects while comparing in a bigger picture.

To understand the impact cancer is having on our community, it is important to monitor the number of people who are affected by the disease, and to what extent. For this reason, the National Cancer Registry regularly gathers information about the number of people diagnosed with cancer, the type of cancers being diagnosed and how advanced the disease is, the number of people who die from cancers and the proportion of people who survive cancer within certain time periods. It is important to look at these data over time. This will show any changes, and look at whether there are any differences between genders, ethnicity groups and geographical areas. This helps to inform cancer control programs at a national, state and local level.

The information from this communiqué will enhance in tailoring the project, harmonization of pertinent allotment of resources and dissemination of cancer care. The success of cancer care is reflected by early detection, prompt treatment and survival improvement after the patient being diagnosed.

In developing national cancer control programmes, it is important for all agencies to create optimal conditions while undertaking a strategy development process for cancer control. This condition includes political will with commitments, collaboration among key national organizations and cost of proposed programmes with regards to reduction in mortality from cancers. This report marked another milestone in strengthening cancer prevention and management in this country.

I would also like to extend my sincere appreciation and gratitude to all the medical oncologist consultants in the country, public health physicians, pathologists, medical record team members in the hospitals and state cancer registries for their contribution to this report.

Thank you.

DATUK DR. NOOR HISHAM ABDULLAH Director General of Health, MALAYSIA

MESSAGE



Cancer continues to be a leading cause of premature death and illness in Malaysia, which has a significant impact on the community, and the Malaysian health system. Reducing the incidence of cancer, while ensuring the best quality care and outcomes for those who experience the disease, are key priorities of the Ministry of Health and other related agencies overall.

The cancer burden has increased due to several factors, such as population growth and ageing. It is also linked to economic and social development in a way of rapidly growing economies, particularly cancer related to poverty and lifestyle related infections caused-cancer mimic to industrialised countries.

Since 2007, the National Cancer Registry (NCR) has led the reporting of Malaysian National Cancer Registry based on data collected through 13 states and 2 federal territories cancer registries, which provides nationwide cancer data and information to all related professionals, policy makers, primary health care networks and participating private hospitals.

These data enable the health system to identify opportunities to improve cancer prevention initiatives; enhance early detection by screening programs; and optimise treatment services and clinical trials at a national and local level. Early detection, screening, and diagnosis have been proven to significantly improve patients' survival rates and quality of life as well as significantly reduce the cost and complexity of cancer treatment. However, barriers to achieving higher rates of early cancer detection need to be addressed now at the individual, health system, and governmental level to significantly reduce the personal and financial burden of cancer worldwide.

According to WHO, the need for urgent action to increase early stage cancer detection, screening, and diagnosis to significantly improve cancer patients' chances of survival. The theme for World Cancer Day 2019, 'I Am and I Will', aims to inspire and encourage actions from individuals, the health community, and governments in order to improve public awareness and access to early detection, screening, and diagnosis. Cancer awareness raising efforts can change these behaviours by emphasizing the importance of early diagnosis and encourage early help seeking which are culturally appropriate.

Finally, I would like to express my gratitude and congratulate the editorial team for their efforts in producing this important report. We look forward to the continuation of such efforts in future publications and provide key data and information across the full spectrum of cancer control, including a greater number of indicators that provides a more comprehensive view of cancer health system performance.

Thank you.

DATUK SERI DR DZULKEFLY AHMAD Minister of Health, MALAYSIA

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LIST OF ABBREVIATIONS

95% CL 95% Confidence Limit

AR Age-specific rate

ASR Age-standardised incidence rate

Cl5 Cancer Incidence in Five Continents

CR Crude incidence rate

CR74 Cumulative Rate
CumR Cumulative Risk

DCO Death Certificate Only

Dosm Department of Statistic Malaysia

ENCR European Network of Cancer Registries

GP General Practitioner

HIC Health Informatics Centre
HUI Human Development Index

IARC International Agency for Research on Cancer
IACR International Association of Cancer Registries

ICD-10 International Classification of Diseases, Tenth Revision

ICD-0-3 International Classification of Diseases for Oncology, Third Edition

KKom Klinik Komuniti

MNCR Malaysia National Cancer Registry

MOH Ministry of Health

MV Morphological Verified

MySCan Malaysian Study on Cancer Survival

NCDC Non-Communicable Disease Control

Non-MOH Non-Ministry of Health

NRD National Registration Department

NRIC Number Registration Identification Card

Other skin Non-Melanoma skin malignancy

RN Registration Number

SE Standard Error

TNM Tumour, Node, Metastasis
WHO World Health Organisation

WPKL&P Federal Territory of Kuala Lumpur & Putrajaya





Malaysian National Cancer Registry (MNCR) is a population-based registry that was established nationwide in 2007. The first report of the MNCR covered the period from 2007-2011 which was published in 2016. This report covers the second five-year period from 2012 to 2016 which applies only to Malaysian citizens and residents living in Malaysia at the time of diagnosis.

A total of 115,238 new cancer cases were registered for the period of 2012-2016. 44.7% were among males and 55.3% were among females. The Age-standardised incidence rates (ASR) were 86.1 for males and 101.6 for females per 100,000 populations. The incidence rates for all sites combined were increased by 2.3 in females and slightly reduced by 0.8 in males per 100,000 populations when comparing the last five-year period (2012–2016) with the previous one (2007–2011).

Cancer of the colorectal, lung, prostate, lymphoma, nasopharynx, liver, leukaemia, stomach, skin (non-melanoma) and bladder were the 10 most common cancer sites in males, whereas breast, colorectal, cervix uteri, ovary, lung, corpus uteri, lymphoma, thyroid, leukaemia and skin (non-melanoma) were the 10 most common cancer sites in females.

The relative impact of cancers, however, varies considerably by age. Among children (0-14 years of age), leukaemia and cancer in the central nervous system were the most common. These represent more than 50% of all cancer cases in boys and girls. Among children and adolescents (15-24 years of age), lymphoma was the most common cancer in both sexes. In men (25 years of age and above), colorectal cancer was the most common cancer followed by lung cancer. Among women (25-59 years of age), breast cancer followed by colorectal and cervical cancer were the most common cancer sites, colorectal cancer was slightly more common than breast cancer among the older women (70+).

By ethnicity, the overall incidence rates among Chinese and Indians were reduced slightly, whereas the overall incidence rates among Malays were observed to be increased. The ASR was higher in Chinese than other ethnic groups for most of the leading cancers except for lymphoma and leukaemia which were predominant in Malays.

For the most common cancers in males, the largest incidence increased in rates was observed for prostate and slightly increased in colorectal and bladder. On the positive side, the rates for nasopharynx, lung, lymphoma and leukaemia were reduced. For the most common cancers in females, the strongest increase in incidence rate occurred for breast, corpus uteri and thyroid. A reduction in rates was seen for cancer in cervix uteri, ovary and leukaemia. The probability of being diagnosed with cancer before the age of 75 (CumR) is 9.8 in males (lifetime risk of 1 in 10) and 10.8 in females (lifetime risk of 1 in 9).

Only 52.8% of the incident cases were staged at the time of diagnosis with an increase by 1.8% compared to the previous report 2007-2011. Of these, 15.5% were reported as stage I, 20.8% as stage II, 22.8% as stage III, and 40.9% as stage IV. Most of the cancer cases were detected at late stage as the overall proportion of cases diagnosed at advanced stages (stage III & IV) were increased from 58.7% (2007-2011) to 63.7% (2012-2016).

This report demonstrated a significant increase in number of newly diagnosed cancer cases in the country for the past five years. This is prominently seen in breast, colorectal and lung cancers and despite of the availability of screening programme for the above cancers the percentage of advanced cancer are still alarmingly high. Therefore, effective prevention, early detection and enhanced public awareness must be a priority agenda in strengthening the cancer control programme in Malaysia.

1.0 INTRODUCTION

Ministry of Health has started its population-based cancer registry in 1993 with few regional state cancer registries, and was established nationwide in 2007. The National Cancer Registry Department (NCR) has led the reporting of Malaysia National Cancer Registry report based on data collected through 13 states and 2 federal territories cancer registries in the country. The first five-year report which covered the period of 2007-2011 was published in 2016. This is the second five-year report for the period of 2012-2016.

This report aims to provide an epidemiological profile of cancer in Malaysia to assist medical and health professionals, policy-makers, researchers and agencies in the planning and evaluation of National Cancer Control Programme. Over time, the rankings of the most common cancers, as well as the direction and magnitude of change in incidence rates, have varied among the different cancers.

The trends of cancer incidence are likely a result of an array of factors such as lifestyle changes, population ageing, and a declining fertility rate. Lifestyle and behavioural factors such as obesity, physical inactivity, and smoking increase an individual's risk of developing cancer. As such, it is important to encourage healthful behaviour in individuals to minimise the impact of these risk factors on health. Screening for common cancers such as breast, cervical and colorectal cancers is encouraged, especially for individuals with a family history of the cancer in question.

1.1 Geographical Background

Malaysia covers an area of about 330,534 sq. km (Department of Survey & Mapping Malaysia, 2018), consisting of Peninsular Malaysia and East Malaysia (Sabah, Sarawak and Federal Territory of Labuan). It is separated by the South China Sea and has its frontier with Thailand, Singapore, Indonesia and Brunei.

Peninsular Malaysia is located south of Thailand, north of Singapore and east of the Indonesian Island of Sumatera. East Malaysia comprises most of the northern part of Borneo and shares borders with Brunei and Indonesia. Located near the equator, Malaysia's climate is categorised as equatorial, being hot and humid throughout the year.

Malaysia is divided into thirteen states and two Federal Territories. Eleven states and one Federal Territories are found in Peninsular Malaysia meanwhile, two states and one Federal Territory are found in East Malaysia.

The Peninsular Malaysia consists of the following states (from north to south): Perlis, Kedah, Pulau Pinang (Penang), Perak, Selangor, Federal Territory of Kuala Lumpur and Putrajaya (WPKL&P), Negeri Sembilan, Melaka, Johor, Pahang, Terengganu and Kelantan. The East Malaysia consists of Sabah, Sarawak and Federal Territory of Labuan (W.P. Labuan).



Figure 1. Map of Malaysia

1.2 Malaysian Population and Health Status

The Malaysian population in 2016 was 31.6 million including the non-citizens. The population pyramid and its distribution by sex and age group is shown in Figure 2. Among Malaysian citizens, there were 50.6% males and 49.4% females. Majority were Malays (55.6%), followed by Chinese (23.4%), Bumiputera (13.0%), Indians (7%) and Others (1%).

Table 1. Population by sex, ethnic groups and citizenship, Malaysia, 2016

| Variables | Characteristics | NO. | % |
|---------------|------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------|
| Sex | Male | 14,371,900 | 50.6 |
| | Female | 14,031,500 | 49.4 |
| Ethnic groups | Malays Bumiputera Chinese Indians Others Total | 15,796,400 3,688,900 6,645,700 1,991,600 280,900 28,403,500 | 55.6 13.0 23.4 7.0 1.0 100.0 |
| Citizenship | Malaysian | 28,403,500 | 89.8 |
| | Non-Malaysian | 3,230,000 | 10.2 |
| | Total | 31,633,500 | 100.0 |

Source: Department of Statistics Malaysia, 2016

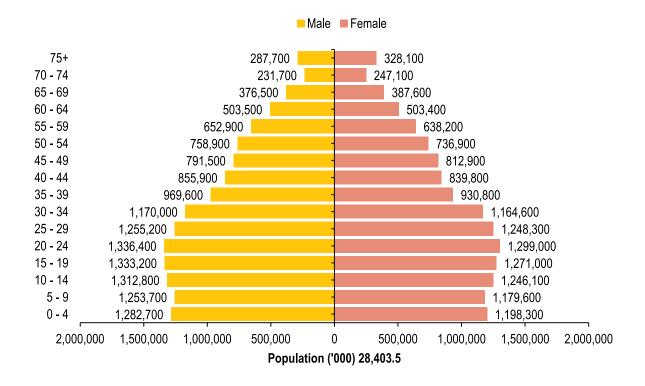
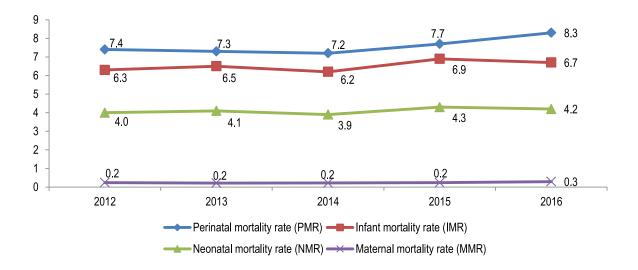


Figure 2. Population pyramid, all residents, Malaysia, 2016

1.2.1 Health Status, Socioeconomic and Health Facilities

Health status: The life expectancy of Malaysian residents continues to rise, reaching 74.7 years in 2016 compared to 72.2 years in 2000. According to report by Statistics Department, a male child born in 2016 can expect to live up to 72.6 years, compared to 71.9 years in 2010, while a female child, up to 77.2 years or up 0.6 years compared to 76.6 years in 2010. The important mortality indicators trends in Malaysia for 2012-2016 as shown in Figure 3.



^{*} Source: Health Informatics Centre, MOH, 2014-2018

Figure 3. Perinatal, neonatal, infant and maternal mortality rates in MOH Hospitals, Malaysia, 2012-2016

Socioeconomic: : Malaysia's Human Development Index (HDI) value for 2015 was 0.789 - which put the country in the high human development category - positioning it at 59 out of 188 countries and territories. Between 1990 and 2015, Malaysia's HDI value increased from 0.643 to 0.789, an increase of 22.8 percent. The standard of living is measured by Gross National Income (GNI) per capita expressed in constant 2011 international dollars converted using purchasing power parity (PPP) conversion rates. Table 2 reviews Malaysia's progress in each of the HDI indicators

Table 2. Malaysia's Human Development Index Trends, 2011-2015

| | Life expectancy at birth | Expected years of schooling | Mean years of schooling | GNI per capita (2011 PPP\$) | HDI Value |
|------|--------------------------------|-----------------------------|-------------------------------|--------------------------------|-----------|
| 2011 | 74.3 | 12.9 | 10.0 | 21,348 | 0.776 |
| 2012 | 74.4 | 12.9 | 10.1 | 21,871 | 0.779 |
| 2013 | 74.6 | 13.0 | 10.1 | 22,648 | 0.783 |
| 2014 | 74.7 | 13.1 | 10.1 | 23,644 | 0.787 |
| 2015 | 74.9 | 13.1 | 10.1 | 24,620 | 0.789 |

Health facilities: The following table provides an overview of the health delivery system in Malaysia. An overall number of health facilities and doctors treating all types of diseases are seen in Table 3. From 2012 to 2016 the number of doctors to the population ratio had increased from 1:758 to 1:632. Gradual increases in the total number of government hospitals were from 147 in 2012 to 153 in 2016 and hospital beds from 42,707 in 2012 to 45,678 in 2016. Other public health facilities comprises of government and non-government, form a total of 9,709 in 2012 and have increased to 10,555 by the year 2016.

Table 3. Health facilities and number of doctors in Malaysia, 2012-2016

| | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------------------------------|--------|--------|--------|--------|--------|
| No. of Medical Officer | | | | | |
| Government (MOH) | 24,277 | 28,949 | 33,275 | 33,545 | 36,403 |
| Government (non-MOH) | 3,201 | 6,270 | NA | NA | NA |
| Private | 11,240 | 11,697 | 12,290 | 12,946 | 13,684 |
| Total | 38,718 | 46,916 | 45,565 | 46,491 | 50,087 |
| Doctor : Population ratio | 1:758 | 1:633 | 1:661 | 1:656 | 1:632 |
| Hospitals | | | | | |
| Government (MOH) | 140 | 141 | 142 | 143 | 144 |
| Government (non-MOH) | 7 | 8 | 8 | 9 | 9 |
| Private | 251 | 252 | 223 | 216 | 216 |
| Total | 398 | 401 | 373 | 368 | 369 |
| Hospitals Beds | | | | | |
| Government (MOH) | 38,978 | 39,728 | 40,260 | 41,389 | 41,995 |
| Government (non-MOH) | 3,729 | 3,709 | 3,562 | 3,698 | 3,683 |
| Private | 14,165 | 14,602 | 13,646 | 13,574 | 14,619 |
| Total | 56,872 | 58,039 | 57,468 | 58,661 | 55,789 |
| Other facilities | | | | | |
| Gov. Community Clinics (KKom) | 178 | 254 | 307 | 334 | 357 |
| Government (MOH) | 2,856 | 2,860 | 2,871 | 2,869 | 2,863 |
| Private Practitioners (GP) | 6,675 | 6,801 | 6,978 | 7,146 | 7,335 |
| Total | 9,709 | 9,915 | 10,156 | 10,349 | 10,555 |

Private Hospitals: Private Hospitals, Private Maternity Home, Private Nursing Home And Hospice Government (MOH) Health Clinics: Health Clinic, Rural Community Clinic, Maternal and Child Health Clinic

Government (non-MOH) Hospitals: Army Hospitals, University Hospitals,

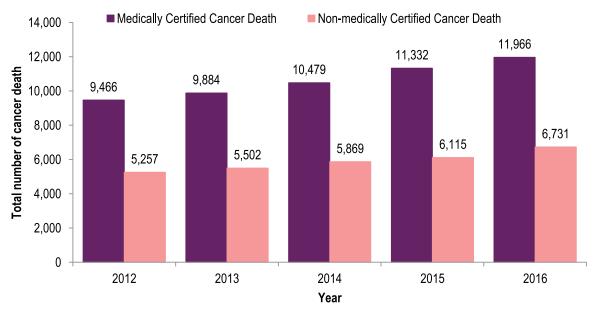
Gov. Community Clinics (Kkom) previously known as 1Msia clinic

NA: Not Available

Source: Health Indicators, Health Informatics Centre, MOH, 2013-2017

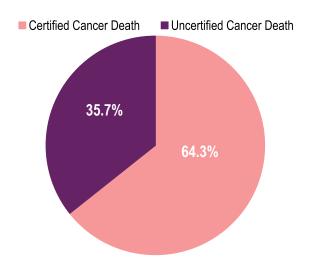
1.2.2 Cancer Death Certification

A total of 82,601 medically certified and non-medically certified cancer deaths were reported by the National Registration Department of the period 2012 to 2016 (Figure 4). Over the years, the numbers of medically certified cancer deaths have gradually increased. The overall percentage of medically certified cancer death was 64.3% and 35.7% are non-medically certified cancer death (Figure 5).



Source: National Registration Department (Death registry 2012-2016)

Figure 4. Number of medically certified and non-medically certified cancer death, Malaysia, 2012-2016



Source: National Registration Department (Death registry 2012-2016)

Figure 5. Certified and uncertified cancer death, Malaysia, 2012-2016

2.0 METHODOLOGY

2.1 Sources of data

As cancer is not a notifiable disease, case registration is based primarily on voluntary notifications. The registry sought to obtain basic epidemiological and clinical data on cases of cancer diagnosed in Malaysia which only captured for Malaysian citizens and residents.

The registry received the notifications from all data source providers in government and private health facilities using a standardised format (Refer Appendix 30). Comprehensive cancer registration was achieved through data obtained from a combination of sources using both passive and active case finding methods, (a) notifications by the medical profession, (b) pathology records, (c) hospital discharges records, (d) mortality data from the National Registration Department (NRD) and hospital death notification, and (e) Hospital based cancer registry. For cancer cases obtained from sources other than physician notification, the data was checked against known registered cases in the registry. If the cases are not in the system, the registry staff will continue with active case findings with the respective facilities. Patient confidentiality was maintained at all times. Passive notification and active case finding are defined as below;

- **i. Passive notification** registry relies on medical profession or other healthcare workers to complete notification forms and forward them to the registry
- **ii.** Active case finding collecting at source, whereby registry staff would visit the sources of data to extract the required information and record it onto forms, or to obtain copies of the relevant information. To ensure completeness of the data, active case finding and routine checks were done using government and private hospital discharge records, as well as pathology records from the public and private laboratories. These were supplemented by case detection from death records supplied by the National Registration Department. Any cancer case detected from pathology and death records were then checked with previously registered cases. If they were not yet notified, reminders were sent to the person in-charge for more information. Additional missing data for these cases were also sought by registry staff by searching the relevant hospital records.

2.2 Registration procedure

All updated information collected on hardcopies, either passively or actively, were entered into the Canreg5 software a computer database provided by IARC, Lyon, France (International Agency for Research on Cancer, 2008-2018). As this is a population-based cancer registry, all respective states registries will only register the cases by residential address in their geographical area. Cases from other states will be transferred to the respective state for further action. The outline of the registration process is shown in Figure 6.

Every item relating to the patient was collated and updated which subject to data quality check. All 15 registries registered all new cases of cancer diagnosed in Malaysia by their geographical area. The NCR team consolidated information from all 13 states and 2 federal territories cancer registries for final data quality check and analysis.

Multiple sources of data had assisted in optimising completeness of collection; however, this could create problem of multiple notification of a patient. This issue was addressed by cross checking names, age, date of birth and National Registration Identity Card numbers (NRIC) using CanReg5 software prior to the case registration. Identification card number is a unique number given to each Malaysian citizen.

The CanReg5 program accommodates comparison of essential variables across cases. 80% conformity is the standard used to trigger a further check of duplication. If the patient has been registered before, a check will be

done along with the previous notifications to ascertain if it is a new primary. If the cancer is a new primary, the case is registered with a new registration number and if it is not, the records are updated. Data from hospital discharges and reports from laboratories and death list from NRD were also sent to the registry and the same procedures were followed as described above. The same procedures were followed in NCR in the process of consolidating the data from 15 cancer registries.

Every effort was made to ensure that all the variables were completed. In the event if there was incomplete information, the notification forms with incomplete information were sent back to the respective data providers for further clarification and returned back to the registry upon completion. If there were no clarification, or incomplete forms returned, registries staff would visit the source providers to obtain the required information and to decide whether the case can be registered or not. For most cases the staging used was TNM Classification System. However, for cases with other staging classifications the registry staff assisted in converting it to TNM Classification System too.

Death certificate list were obtained from the NRD, government and private hospitals in the same procedures as explained earlier. Those with mention of cancer on death certificate were identified, and transcripts of associated reports or certificates were used by the registry. If no information was available, then the case would be registered as Death Certificate Only (DCO).

2.3 **Quality control**

In order to achieve a high validity and accuracy of data MNCR used the same five common indices as indicated in the Cancer Incidence in Five Continents (CI5), Volume XI (Bray et al., 2017) 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.

To ensure data comparability and accuracy, all cases notified to the registry must follow the IARC rules as follows;

Definition of Incidence Date: We use the standard recommendation for the definitions of incidence given by the European Network of Cancer Registries (ENCR) (Tyczynski et al., 2003).

Coding: Topography and morphology were coded to the International Classification of Diseases for Oncology (ICD-O-3) (World Health Organization, 2013).

Multiple Primaries: Registration of multiple primary cancers is in accordance with the IARC/IACR rules (IARC, IACR & ENCR, 2004).

Consistency Check: The logical inconsistencies between the variables in each cancer record were checked using IARC tools. The variables in each record were checked for eligibility (e.g. age and cancer behaviour), definite errors (e.g. sex site errors, invalid dates, impossible date sequence, and missing vital status), and possible errors, including a wide range of inconsistencies between age, cancer site, and morphology.

Morphology verification: The proportion of cancer records with morphological verification of the diagnosis were examined, whether from histology of a biopsy or surgical specimen, cytology of a smear or bone marrow aspirate, or from imaging or biomarkers, including tumours with a specific morphology code.

All data supplied for this report were coded to ICD-O-3, and then were converted to ICD-10 by the system for analysis and report writing.

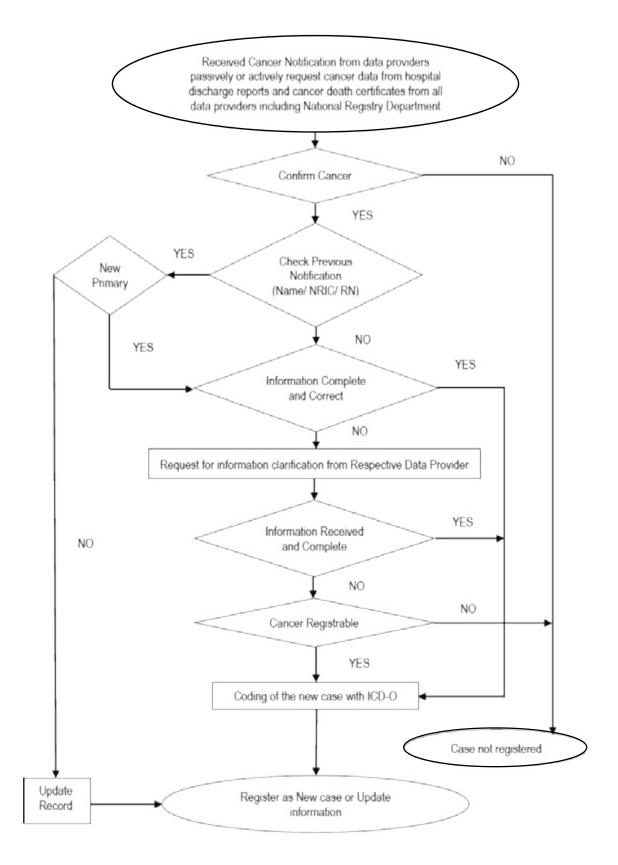


Figure 6. Outline of registration procedure

2.4 Data Analysis

All the results refer only to the Malaysian citizen and resident. Population denominators for the respective years obtained from the Department of Statistics Malaysia (DOSM) were used to compute the rates. Segi's World Population (1960) was used for direct standardisation to calculate age-standardised incidence rates (ASR).

Analysis by ethnicity was done for 3 major ethnic groups which are Malays, Chinese and Indians using respective year's population denominators provided by DOSM. Data were analysed using R statistic inbuilt in Canreg5 software provided by IARC, Lyon, France.

Description of statistical methods

i. 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.

$CR = N / P \times 100,000$

N - Total number of new cancer cases

P- Person-years at risk

ii. Age-specific incidence 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 Malaysian population in the particular age group and multiply by 100,000.

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

Ni - Number of new cancer occurring in the ith age group

P_i - Person-years at risk in the ith age group

iii. Age-standardised incidence 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 weighting 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 x P_{i.std}) / total world standard population

AR_i - Age specific rate in the ith age class

Pi.std - The number in the ith age class of world standard population

iv. 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

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

wi - Standard world population for age class i

yi - Person-years at risk for age class i

v. 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:

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

vi. Cumulative rate (CR74)

Cumulative rate is the weighted sum of age-specific incidence rates until completion of 74 years of age. 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.

$$CR74 = 5 \times \sum_{i} (d_{i}/y_{i}) \times 100$$

i - 5-year age groups

d_i – Number of cases in age class i

yi - Person-years at risk of age class i

vii. Cumulative risk (CumR)

Cumulative risk is defined as a probability that an individual would develop cancer 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:

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

exp - exponential

viii. Lifetime risk

Lifetime risk is defined as the likelihood that a person who is free of a certain type of cancer will develop or die from that type of cancer during his or her lifetime. Lifetime risk estimates are usually expressed as the odds of developing cancer ('1 in x') or as a percentage.

3.0 **RESULTS**

3.1 Overall Cancer Incidence

A total of 115,238 new cancer cases were diagnosed in Malaysia for the period of 2012-2016.

The Age-standardised incidence rates (ASR) were 86.1 for males and 101.6 for females per 100,000 populations. When comparing with the previous report (2007-2011), the ASR were increased by 2.3 in females and slightly reduced by 0.8 per 100,000 populations in males.

The cumulative risk (CumR) was 9.8 for male and 10.8 for female, representing the probability of being diagnosed with a cancer before the age of 75, in the absence of other causes of death. The lifetime risk for both sexes did not change compared to the previous report which remained as 1 in 10 among males and 1 in 9 among females (Table 4).

Table 4. Incidence summary of new cancer cases by sex, Malaysia, 2012-2016

| Sex | No. | % | CR | ASR | CumR | Lifetime risk |
|----------------------------------|------------------------------------|------------------------------|--------------|---------------|-------------|-------------------|
| Males Females Total | 51,505 63,733 115,238 | 44.7 55.3 100.0 | 75.4 95.8 | 86.1 101.6 | 9.8 10.8 | 1 in 10 1 in 9 |

Table 5. Incidence summary by major ethnic groups and sex, Malaysia, 2012-2016

| Male | | | | | | F | emale | |
|----------------------------|---------------------------|-----------------------|-----------------------|--------------------|---------------------------|------------------------|------------------------|---------------------|
| Ethnicity | No. | CR | ASR | CumR | No. | CR | ASR | CumR |
| Malay Chinese Indian | 21,841 21,385 2,842 | 57.4 127.6 58.1 | 73.6 106.1 66.7 | 8.4 11.9 7.6 | 29,689 22,440 5,196 | 79.4 142.1 106.7 | 90.9 117.3 106.9 | 9.6 12.5 11.7 |

By ethnicity, Chinese had the highest incidence in both males and females. The overall incidence rates among Chinese and Indians were reduced slightly, whereas the overall incidence rates among Malays was observed to be increase compared to previous report in both sexes.

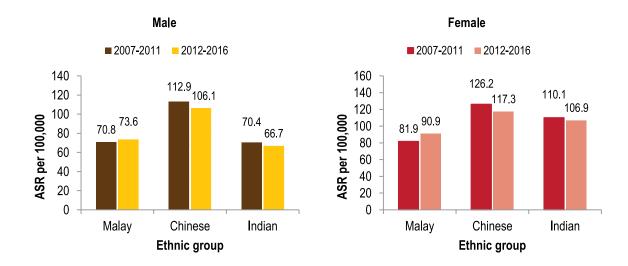


Figure 7. Comparison of incidence summary by ethnicity; 2007-2011 and 2012-2016

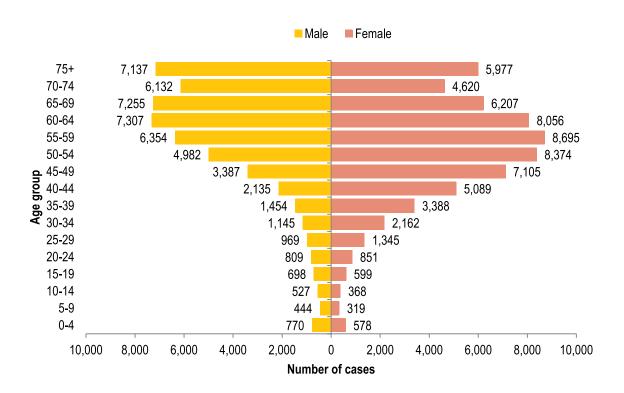


Figure 8. Number of cases by age group and sex, Malaysia, 2012-2016

Number of cancer cases increased exponentially with age with the highest age at diagnosis was within age group of 60-64 years old in males and 55-59 years old in females.

3.1.1 Cancer Trends

The annual cancer incidence in Malaysia is increasing over the 10 years (2007-2016) in males and females as shown in Figure 9. The incidence in females was noted to be higher than males.

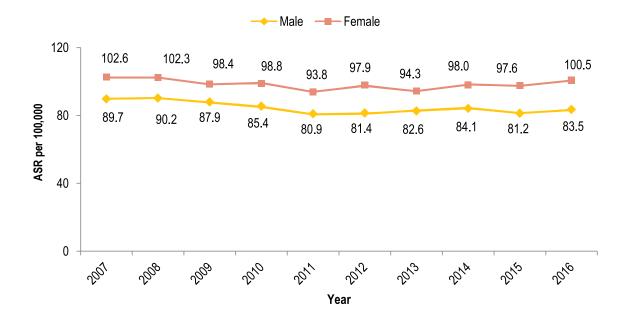


Figure 9. Annual age-standardised rate (ASR) by sex, Malaysia, 2007-2016

3.2 Age-specific Incidence Rates

The incidence of cancer increased for both males and females after the age of 30 years (Figure 10). The incidence rate in males exceeded the incidence rate in females after the age of 60 years.

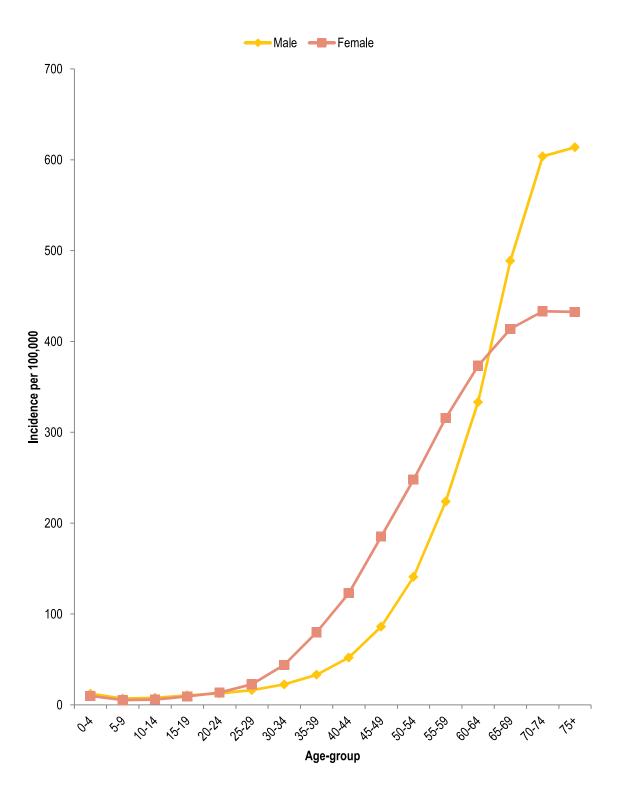


Figure 10. Age-specific incidence rate by sex, all sites, Malaysia, 2012-2016

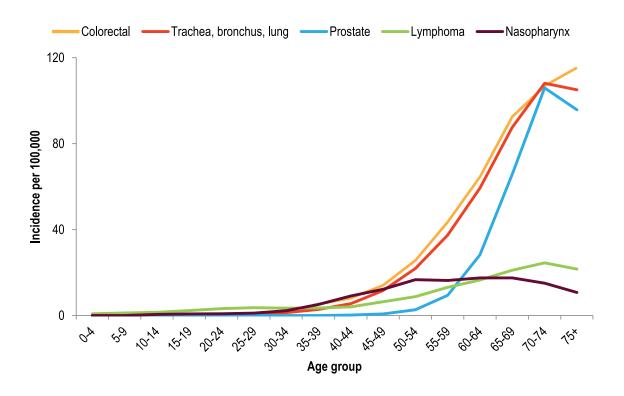


Figure 11. Age-specific incidence rate for five common sites, males, Malaysia, 2012-2016

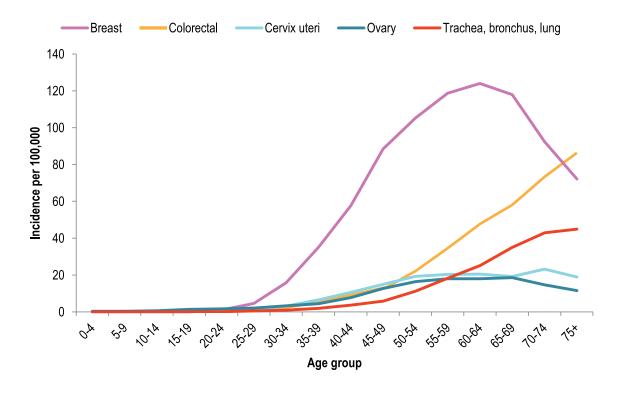


Figure 12. Age-specific incidence rate for five common sites, females, Malaysia, 2012-2016

3.3 Incidence of Ten Most Common Cancers

The ten most common cancers among Malaysian were breast, colorectal, lung, lymphoma, nasopharynx, leukaemia, prostate, liver, cervix uteri and ovary (Table 6 and Figure 13).

Table 6. Ten most common cancers, all residents, Malaysia, 2012-2016

| ICD - 10 | Sites | No. | % |
|------------|----------------------------|---------|-------|
| C50 | Breast | 21,925 | 19.0 |
| C18-21 | Colorectal | 15,515 | 13.5 |
| C33-34 | Trachea, bronchus and lung | 11,256 | 9.8 |
| C81-85,C96 | Lymphoma | 5,830 | 5.1 |
| C11 | Nasopharynx | 4,597 | 4.0 |
| C91-95 | Leukaemia | 4,273 | 3.7 |
| C61 | Prostate | 4,189 | 3.6 |
| C22 | Liver | 4,033 | 3.5 |
| C53 | Cervix uteri | 3,981 | 3.5 |
| C56 | Ovary | 3,575 | 3.1 |
| | Others | 36,064 | 31.3 |
| | Total | 115,238 | 100.0 |

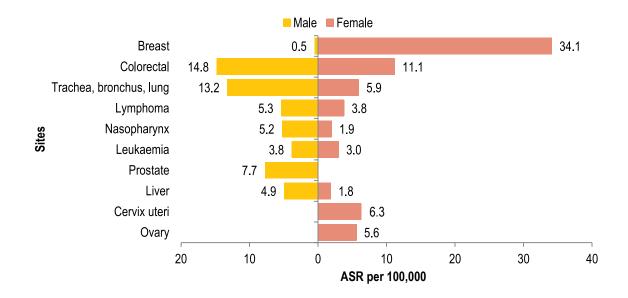
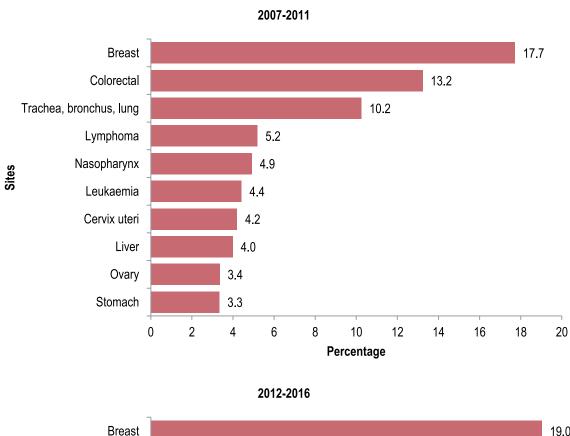


Figure 13. Age-standardised incidence rate for ten most common cancers, all residents, Malaysia, 2012-2016



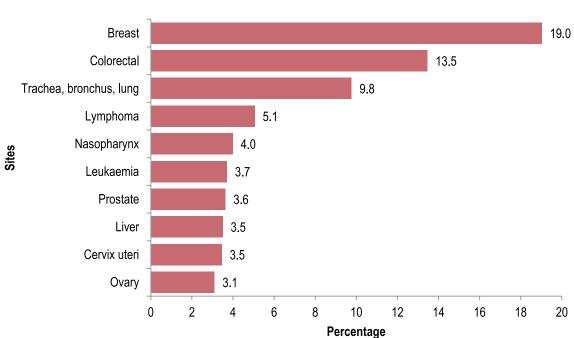


Figure 14. Comparison of ten most common cancers, all residents, Malaysia, 2007-2011 and 2012-2016

Table 7. Ten most common cancers by sex, all residents, Malaysia, 2012-2016

| ICD - 10 | Sites | No. | % | CR | ASR |
|------------|----------------------------|--------|-------|------|-------|
| Male | | | | | |
| C18-21 | Colorectal | 8,701 | 16.9 | 12.7 | 14.8 |
| C33-34 | Trachea, bronchus and lung | 7,686 | 14.9 | 11.3 | 13.2 |
| C61 | Prostate | 4,189 | 8.1 | 6.1 | 7.7 |
| C81-85,C96 | Lymphoma | 3,412 | 6.6 | 5.0 | 5.3 |
| C11 | Nasopharynx | 3,359 | 6.5 | 4.9 | 5.2 |
| C22 | Liver | 2,949 | 5.7 | 4.3 | 4.9 |
| C91-95 | Leukaemia | 2,414 | 4.7 | 3.5 | 3.8 |
| C16 | Stomach | 1,818 | 3.5 | 2.7 | 3.1 |
| C44 | Other skin | 1,797 | 3.5 | 2.6 | 3.1 |
| C67 | Bladder | 1,715 | 3.3 | 2.5 | 3.0 |
| | Others | 13,465 | 26.1 | | |
| | Total | 51,505 | 100.0 | 75.4 | 86.1 |
| Female | | | | | |
| C50 | Breast | 21,634 | 33.9 | 32.5 | 34.1 |
| C18-21 | Colorectal | 6,814 | 10.7 | 10.3 | 11.1 |
| C53 | Cervix uteri | 3,981 | 6.2 | 6.0 | 6.2 |
| C56 | Ovary | 3,575 | 5.6 | 5.4 | 5.6 |
| C33-34 | Trachea, bronchus and lung | 3,570 | 5.6 | 5.4 | 5.9 |
| C54 | Corpus uteri | 2,898 | 4.5 | 4.4 | 4.6 |
| C81-85,C96 | Lymphoma | 2,418 | 3.8 | 3.6 | 3.8 |
| C73 | Thyroid | 2,137 | 3.4 | 3.2 | 3.2 |
| C91-95 | Leukaemia | 1,859 | 2.9 | 2.8 | 3.0 |
| C44 | Other skin | 1,395 | 2.2 | 2.1 | 2.3 |
| | Others | 13,452 | 21.1 | | |
| | Total | 63,733 | 100.0 | 95.8 | 101.6 |

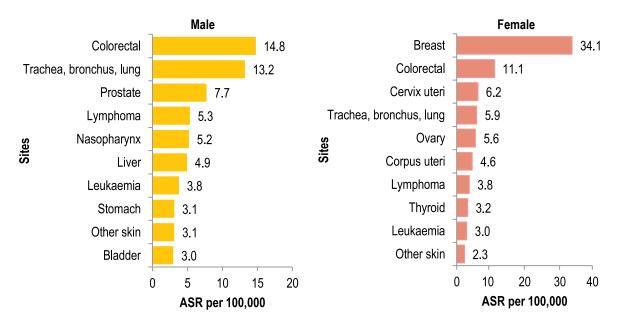


Figure 15. Age-standardised incidence rate for ten common cancers by sex, Malaysia, 2012-2016

3.4 Ethnic Variations

The ASR per 100,000 population of cancer among the ethnic groups for ten common cancers are shown in Table 8 and Table 9. In males, the incidence rates of colorectal, lung, prostate, nasopharynx and liver cancers were more common in Chinese whereas lymphoma, leukaemia and bladder cancers were more common in Malays. In females, the incidence of breast, colorectal, cervix uteri and lung cancers were more common in Chinese whereas ovarian cancer, lymphoma, leukaemia and thyroid cancer were more common in Malays.

Table 8. Age-standardised incidence rates for ten most common cancers in males by major ethnic groups, Malaysia, 2012-2016

| Sites | ASR per 100,000 population by ethnicity | | |
|----------------------------|-----------------------------------------|---------|--------|
| | Malay | Chinese | Indiar |
| Colorectal | 12.2 | 19.6 | 11.0 |
| Trachea, bronchus and lung | 12.5 | 16.0 | 5.7 |
| Prostate | 6.3 | 10.1 | 6.8 |
| Lymphoma | 5.6 | 4.8 | 3.7 |
| Nasopharynx | 2.7 | 8.6 | 0.6 |
| Liver | 4.3 | 6.3 | 3.5 |
| Leukaemia | 3.9 | 3.8 | 2.8 |
| Stomach | 1.6 | 4.2 | 3.5 |
| Other skin | 2.2 | 4.5 | 1.7 |
| Bladder | 3.3 | 3.0 | 2.4 |

Table 9. Age-standardised incidence rates for ten most common cancers in females by major ethnic groups, Malaysia, 2012-2016

| Sites | ASR per 100,000 population by ethnicity | | |
|----------------------------|-----------------------------------------|---------|--------|
| | Malay | Chinese | Indian |
| Breast | 31.5 | 40.7 | 38.1 |
| Colorectal | 9.4 | 15.2 | 8.5 |
| Cervix uteri | 4.6 | 6.8 | 5.5 |
| Ovary | 5.9 | 5.4 | 5.4 |
| Trachea, bronchus and lung | 4.9 | 7.8 | 3.0 |
| Corpus uteri | 4.4 | 5.1 | 5.5 |
| Lymphoma | 3.9 | 3.2 | 3.0 |
| Thyroid | 3.8 | 2.0 | 3.2 |
| Leukaemia | 2.9 | 2.9 | 2.6 |
| Other skin | 1.7 | 3.0 | 1.7 |

Among Malay males, the most common cancers were lung, colorectal, lymphoma, prostate and leukaemia, whereas among Malay females were breast, colorectal, ovary, cervix uteri and lung.

Table 10. Ten most common cancers in Malay by sex, Malaysia, 2012-2016

| ICD - 10 | Sites | No. | % | CR | ASR |
|------------|----------------------------|--------|-------|------|------|
| Male | | | | | |
| C33-34 | Trachea, bronchus and lung | 3,500 | 16.0 | 9.2 | 12.5 |
| C18-21 | Colorectal | 3,493 | 16.0 | 9.2 | 12.2 |
| C81-85,C96 | Lymphoma | 1,866 | 8.5 | 4.9 | 5.6 |
| C61 | Prostate | 1,577 | 7.2 | 4.1 | 6.3 |
| C91-95 | Leukaemia | 1,352 | 6.2 | 3.6 | 3.9 |
| C22 | Liver | 1,263 | 5.8 | 3.3 | 4.3 |
| C67 | Bladder | 886 | 4.1 | 2.3 | 3.3 |
| C11 | Nasopharynx | 862 | 3.9 | 2.3 | 2.7 |
| C70-72 | Brain, nervous system | 642 | 2.9 | 1.7 | 1.8 |
| C44 | Other skin | 623 | 2.9 | 1.6 | 2.2 |
| | Others | 5,777 | 26.5 | | |
| | Total | 21,841 | 100.0 | 57.4 | 73.6 |
| Female | | | | | |
| C50 | Breast | 10,455 | 35.2 | 28.0 | 31.5 |
| C18-21 | Colorectal | 2,912 | 9.8 | 7.8 | 9.4 |
| C56 | Ovary | 1,984 | 6.7 | 5.3 | 5.9 |
| C53 | Cervix uteri | 1,531 | 5.2 | 4.1 | 4.6 |
| C33-34 | Trachea, bronchus and lung | 1,492 | 5.0 | 4.0 | 4.9 |
| C54 | Corpus uteri | 1,409 | 4.7 | 3.8 | 4.4 |
| C81-85,C96 | Lymphoma | 1,354 | 4.6 | 3.6 | 3.9 |
| C73 | Thyroid | 1,333 | 4.5 | 3.6 | 3.8 |
| C91-95 | Leukaemia | 1,019 | 3.4 | 2.7 | 2.9 |
| C70-72 | Brain, nervous system | 557 | 1.9 | 1.5 | 1.6 |
| | Others | 5,643 | 19.0 | | |
| | Total | 29,689 | 100.0 | 79.4 | 90.9 |

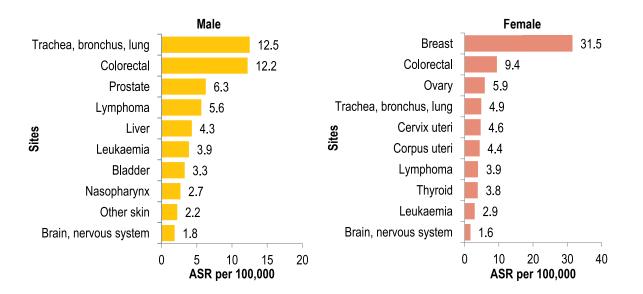


Figure 16. Age-standardised incidence rate for ten common cancers in Malays by sex, Malaysia, 2012-2016

Among Chinese males, the most common cancers were colorectal, lung, prostate, nasopharynx, and liver, whereas among Chinese females were breast, colorectal, lung, cervix uteri and ovary.

Table 11. Ten most common cancers in Chinese by sex, Malaysia, 2012-2016

| ICD - 10 | Sites | No. | % | CR | ASR |
|------------|----------------------------|--------|-------|-------|-------|
| Male | | | | | |
| C18-21 | Colorectal | 4,008 | 18.7 | 23.9 | 19.6 |
| C33-34 | Trachea, bronchus and lung | 3,258 | 15.2 | 19.4 | 16.0 |
| C61 | Prostate | 2,040 | 9.5 | 12.2 | 10.1 |
| C11 | Nasopharynx | 1,748 | 8.2 | 10.4 | 8.6 |
| C22 | Liver | 1,284 | 6.0 | 7.7 | 6.3 |
| C81-85,C96 | Lymphoma | 943 | 4.4 | 5.6 | 4.8 |
| C44 | Other skin | 914 | 4.3 | 5.5 | 4.5 |
| C16 | Stomach | 862 | 4.0 | 5.1 | 4.2 |
| C91-95 | Leukaemia | 661 | 3.1 | 3.9 | 3.8 |
| C67 | Bladder | 618 | 2.9 | 3.7 | 3.0 |
| | Other | 5,049 | 23.6 | | |
| | Total | 21,385 | 100.0 | 127.6 | 106.1 |
| Female | | | | | |
| C50 | Breast | 7,759 | 34.6 | 49.1 | 40.7 |
| C18-21 | Colorectal | 2,990 | 13.3 | 18.9 | 15.2 |
| C33-34 | Trachea, bronchus and lung | 1,537 | 6.8 | 9.7 | 7.8 |
| C53 | Cervix uteri | 1,316 | 5.9 | 8.3 | 6.8 |
| C56 | Ovary | 1,006 | 4.5 | 6.4 | 5.4 |
| C54 | Corpus uteri | 977 | 4.4 | 6.2 | 5.1 |
| C44 | Other skin | 618 | 2.8 | 3.9 | 3.0 |
| C81-85,C96 | Lymphoma | 602 | 2.7 | 3.8 | 3.2 |
| C16 | Stomach | 551 | 2.5 | 3.5 | 2.8 |
| C11 | Nasopharynx | 549 | 2.4 | 3.5 | 2.9 |
| | Others | 4,535 | 20.2 | | |
| | Total | 22,440 | 100.0 | 142.1 | 117.3 |

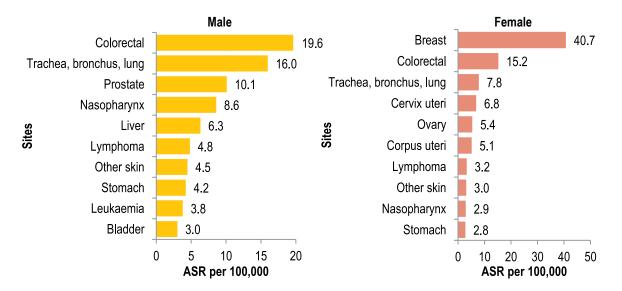


Figure 17. Age-standardised incidence rate for ten common cancers in Chinese by sex, Malaysia, 2012-2016

Among Indian males, the most common cancers were colorectal, prostate, lung, lymphoma and liver, whereas among Indian females were breast, colorectal, cervix uteri, ovary and corpus uteri.

Table 12. Ten most common cancers in Indian by sex, Malaysia, 2012-2016

| ICD - 10 | Sites | No. | % | CR | ASR |
|------------|----------------------------|-------|-------|-------|-------|
| Male | | | | | |
| C18-21 | Colorectal | 470 | 16.5 | 9.6 | 11.0 |
| C61 | Prostate | 245 | 8.6 | 5.0 | 6.8 |
| C33-34 | Trachea, bronchus and lung | 239 | 8.4 | 4.9 | 5.7 |
| C81-85,C96 | Lymphoma | 178 | 6.3 | 3.6 | 3.7 |
| C22 | Liver | 147 | 5.2 | 3.0 | 3.5 |
| C16 | Stomach | 143 | 5.0 | 2.9 | 3.5 |
| C91-95 | Leukaemia | 129 | 4.5 | 2.6 | 2.8 |
| C15 | Oesophagus | 98 | 3.4 | 2.0 | 2.4 |
| C64 | Kidney | 97 | 3.4 | 2.0 | 2.2 |
| C67 | Bladder | 96 | 3.4 | 2.0 | 2.4 |
| | Others | 1,000 | 35.2 | | |
| | Total | 2,842 | 100.0 | 58.1 | 66.7 |
| Female | | | | | |
| C50 | Breast | 1,910 | 36.8 | 39.2 | 38.1 |
| C18-21 | Colorectal | 401 | 7.7 | 8.2 | 8.5 |
| C53 | Cervix uteri | 273 | 5.3 | 5.6 | 5.5 |
| C56 | Ovary | 272 | 5.2 | 5.6 | 5.4 |
| C54 | Corpus uteri | 265 | 5.1 | 5.4 | 5.5 |
| C03-06 | Mouth | 220 | 4.2 | 4.5 | 4.9 |
| C73 | Thyroid | 167 | 3.2 | 3.4 | 3.2 |
| C16 | Stomach | 155 | 3.0 | 3.2 | 3.3 |
| C81-85,C96 | Lymphoma | 151 | 2.9 | 3.1 | 3.0 |
| C33-34 | Trachea, bronchus and lung | 135 | 2.6 | 2.8 | 3.0 |
| | Others | 1,247 | 24.0 | | |
| | Total | 5,196 | 100.0 | 106.7 | 106.9 |

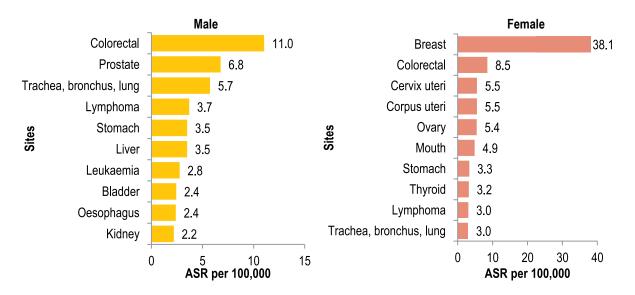


Figure 18. Age-standardised incidence rate for ten common cancers in Indians by sex, Malaysia, 2012-2016

3.5 **Staging**

Staging was reported for 58,635 cases (52.8%). Of these 9,102 (15.5%) were in stage I, 12,194 (20.8%) in stage II, 13,384 (22.8%) in stage III and 23,955 (40.9%) in stage IV. Thus at the time of diagnosis, 37,339 (63.7%) had advanced cancers (stage III and IV). Table 13 showed the percentage of staging for cancers that may be detected by early screening.

Table 13. Reported staging (I-IV) for cancers that may be detected by early screening, comparison 2007-2011 and 2012-2016, Malaysia

| | | | Stage | Stage I (%) | | e II (%) | Stage III (%) | | Stage | e IV (%) |
|---------|---------------|--------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|
| ICD10 | Sites | Sex | 07-11 | 12-16 | 07-11 | 12-16 | 07-11 | 12-16 | 07-11 | 12-16 |
| C50 | Female Breast | F | 19.9 | 17.5 | 37.0 | 34.5 | 23.1 | 25.1 | 20.1 | 22.8 |
| C18-C21 | Colorectal | M | 10.5 | 7.4 | 23.6 | 20.2 | 30.4 | 32.8 | 35.5 | 39.6 |
| C11 | Nasopharynx | F M | 9.7 11.7 | 6.6 10.1 | 25.1 24.8 | 20.3 | 31.9 29.1 | 32.9 29.5 | 33.3 34.5 | 40.2 39.8 |
| 011 | reacopharynx | F | 10.7 | 9.9 | 29.6 | 25.0 | 29.9 | 31.1 | 29.8 | 33.9 |
| C61 | Prostate | M | 15.6 | 13.4 | 24.4 | 18.0 | 18.7 | 15.4 | 41.3 | 53.2 |
| C53 | Cervix Uteri | F | 23.9 | 23.7 | 35.8 | 35.3 | 21.9 | 22.3 | 18.4 | 18.7 |
| C01-C02 | Tongue | M | 14.3 | 17.4 | 22.8 | 19.7 | 23.5 | 21.1 | 39.3 | 41.9 |
| | | F | 16.3 | 16.3 | 25.8 | 24.4 | 23.5 | 18.4 | 34.4 | 41.0 |
| C03-C06 | Mouth | M F | 12.4 15.5 | 10.5 14.7 | 21.0 17.4 | 19.0 21.0 | 23.3 17.4 | 19.0 18.9 | 43.3 49.7 | 51.5 45.5 |
| C62 | Testis | М | 44.7 | 30.8 | 19.6 | 21.0 | 10.2 | 16.3 | 25.5 | 31.9 |

3.6 **Validity**

The Data Quality in this report was measured through data completeness, comparability and validity. Validity can be defined as the proportion of cases in a data-set which truly have the reported attribute. The Malaysia National Cancer Registry (MNCR) has used the same five common indices as indicated in the Cancer Incidence in Five Continents (CI5), Vol XI, as below:

- a) Internal consistency: The IARC/IACR CHECK program used to perform consistency checks. All cases queried are checked by the registry staff, using the software program, before incorporating relevant items into the database.
- b) 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. MNCR used morphologically verification (MV) instead of histological verification. For cancers with specified sites, the morphologically verified proportion was 95.2% of all cases for both sexes.
- c) **Death Certificate Only (DCO):** All the death notified by the public, private health facilities to the registry was traced and checked with the National Registry Departments. There were **14 cases** classified as DCO.
- d) Other and unspecified cases (ill-defined cases): For this category, the percentage was 2.3% (2.7% for males and 1.9% for females) A low proportion of cases that are assigned to this category generally imply a better diagnostic precision in determining the site of primary cancer.
- e) **Age unknown:** If there are 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.**

3.7 Age Groups and Cancers

The five most common cancers by sex in each of the five broad age groups are shown in Figures 19-23.

In children below age of 14 years, main cancers in both sexes were leukaemia (41.4% in males, 37.9% in females) followed by brain, nervous system (14.6% in males, 15.8% in females) and lymphoma (13.4% in males, 7.7% in females). Childhood cancer age 0 to 18 years old comprised of 3,829 cases, 2,131 (55.7%) cases were males and 1,698 (44.3%) cases were females.

In the 15-24 year age group, the most common cancers in males were lymphoma (24.2%) followed by leukaemia (19.3%) and testicular cancer (12.4%). While in females, the most common cancers were lymphoma (21.1%) was followed by thyroid (14.8%) and ovarian cancer (13.2%).

In the group aged 25-59 years, colorectal cancer was the most common cancer in males (16.8%), followed by lung cancer (13.4%), and nasopharyngeal cancer (11.3%). The most common cancers seen in females were breast (41.9%), colorectal (8.0%) and cervix uteri (7.6%).

In the 60-74 year age group, the most common cancers in males were colorectal (18.7%), lung (17.9%) and prostate cancers (12.9%). In females the most common cancers were breast (28.8%), colorectal (14.2%) and lung cancers (8.1%).

In the group aged 75 years and above, cancer of the colorectal remained the most common cancer among males (18.8%) followed by lung (17.1%) and prostate cancers (15.6%). In females, colorectal cancer (20.0%) was followed by cancer of the breast (16.7%) and lung (10.4%).

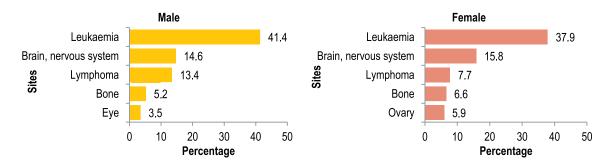


Figure 19. Common cancers among 0-14 years age group by sex, Malaysia, 2012-2016

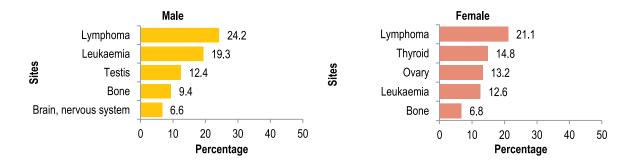


Figure 20. Common cancers among 15-24 years age group by sex, Malaysia, 2012-2016

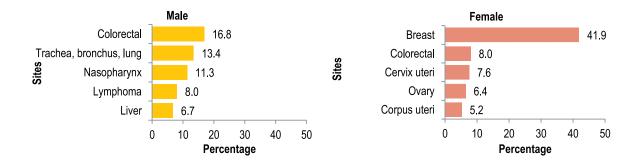


Figure 21. Common cancers among 25-59 years age group by sex, Malaysia, 2012-2016

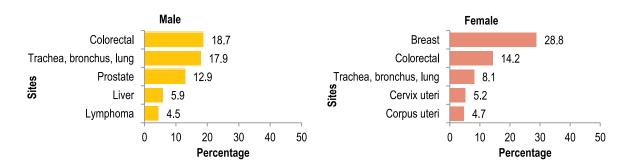


Figure 22. Common cancers among 60-74 years age group by sex, Malaysia, 2012-2016

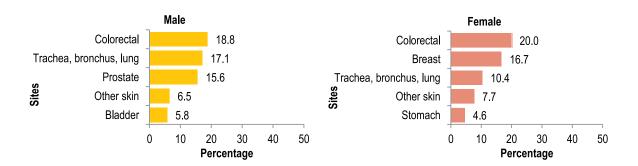
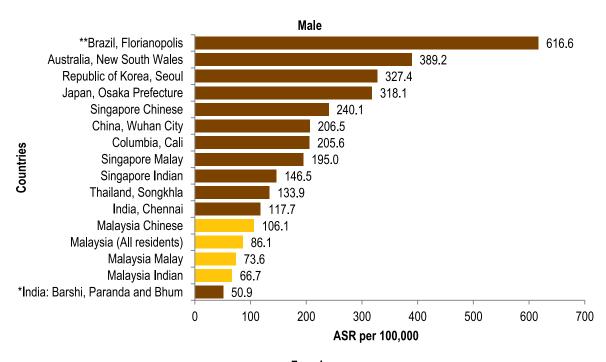
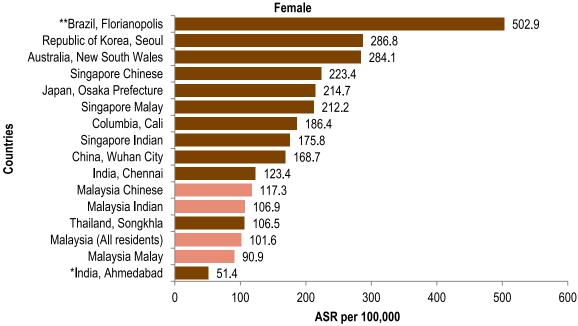


Figure 23. Common cancers in 75 years and above age group by sex, Malaysia, 2012-2016

3.8 International Comparisons





**The highest incidence from CI5, Volume XI *The lowest incidence from CI5, Volume XI NB: National Registry of Diseases Office (2017). Singapore Cancer Registry Annual Registry Report 2015

Figure 24. All Sites: International comparisons – Age-standardised rates

4.0 **SUMMARY TABLES**

4.1 Incidence Summary Table

Table 14. Incidence summary of all cancer sites by year, ethnic group and state, Malaysia

| Year | | | | М | ale | | | | Fei | male | |
|--------------------|-----------------|----------------|---------------|--------------|------------------------------|--------------|----------------|---------------|---------------|------------------------------|-------------|
| Teal | Total | No. | CR | ASR | (95% CL) | CumR | No. | CR | ASR | (95% CL) | CumR |
| 2007 | 20,004 | 8,969 | 70.8 | 89.7 | (87.8,91.6) | 10.1 | 11,035 | 89.5 | 102.6 | (100.6,104.5) | 10.8 |
| 2008 | 20,727 | 9,383 | 72.5 | 90.2 | (88.3,92.0) | 10.1 | 11,344 | 89.7 | 102.3 | (100.4,104.2) | 10.9 |
| 2009 | 20,711 | 9,495 | 72.5 | 87.9 | (86.1,89.7) | 9.9 | 11,216 | 88.0 | 98.4 | (96.5,100.2) | 10.6 |
| 2010 | 21,243 | 9,571 | 71.9 | 85.4 | (83.7,87.2) | 9.7 | 11,672 | 90.1 | 98.8 | (97.0,100.6) | 10.6 |
| 2011 | 20,822 | 9,376 | 68.6 | 80.9 | (79.2,82.5) | 9.3 | 11,446 | 87.2 | 93.8 | (92.0,95.5) | 10.0 |
| 2012 | 22,057 | 9,728 | 71.2 | 81.4 | (79.7,83.0) | 9.2 | 12,329 | 92.7 | 97.9 | (96.2,99.7) | 10.4 |
| 2013 | 22,455 | 10,211 | 73.8 | 82.6 | (81.0,84.2) | 9.5 | 12,244 | 90.8 | 94.3 | (92.6,96.0) | 10.0 |
| 2014 | 23,134 | 10,450 | 75.5 | 84.1 | (82.5,85.7) | 9.6 | 12,684 | 94.1 | 98.0 | (96.3,99.7) | 10.4 |
| 2015 | 23,482 | 10,436 | 74.4 | 81.2 | (79.6,82.8) | 9.2 | 13,046 | 95.4 | 97.6 | (95.9,99.2) | 10.4 |
| 2016 | 24,110 | 10,680 | 76.2 | 83.5 | (81.9,85.1) | 9.5 | 13,430 | 98.2 | 100.5 | (98.8,102.2) | 10.7 |
| Ethnic gro | oup (20 | 12-2016 |) | | | | | | | | |
| Malay | 51,530 | 21,841 | 57.4 | 73.6 | (72.6,74.6) | 8.4 | 29,689 | 79.4 | 90.9 | (89.8,91.9) | 9.5 |
| Chinese | 43,825 | 21,385 | 127.6 | 106.1 | (104.7,107.6) | 11.9 | 22,440 | 142.1 | 117.3 | (115.8,118.9) | 12.5 |
| Indian | 8,038 | 2,842 | 58.1 | 66.7 | (64.2,69.3) | 7.6 | 5,196 | 106.7 | 106.9 | (104.0,109.9) | 11.7 |
| Ethnic gro | oup (200 | 07-2011 |) | | | | | | | | |
| Malay | 42,945 | 18,757 | 53.1 | 70.7 | (69.7,71.8) | 8.0 | 24,188 | 69.5 | 81.9 | (80.8,82.9) | 8.7 |
| Chinese | 42,538 | 20,424 | 124.4 | 112.9 | (111.4,114.5) | 12.5 | 22,114 | 143.2 | 126.2 | (124.5,127.9) | 13.2 |
| Indian | 7,477 | 2,679 | 56.0 | 70.4 | (67.6,73.2) | 8.1 | 4,798 | 101.2 | 110.1 | (106.9,113.3) | 12.2 |
| State (201 | 2-2016) | | | | | | | | | | |
| Johor | 16,434 | 7,408 | 91.0 | 100.6 | (98.3,103.0) | 11.4 | 9,026 | 117.7 | 121.6 | (119.0,124.1) | 12.7 |
| Selangor | 14,784 | 5,972 | 44.9 | 60.5 | (59.0,62.1) | 7.1 | 8,812 | 68.8 | 82.9 | (81.2,84.7) | 9.2 |
| Perak | 12,205 | 5,627 | 95.7 | 85.8 | (83.5,88.0) | 9.2 | 6,578 | 114.7 | 113.5 | (110.7,116.3) | 10.2 |
| Penang | 10,710 | 4,807 | 127.7 | 123.2 | (119.7,126.7) | 13.6 | 5,903 | 155.5 | 140.3 | (136.7,143.9) | 14.7 |
| Sarawak | 10,297 | 4,869 | 78.6 | 84.2 | (81.8,86.6) | 9.7 | 5,428 | 90.6 | 96.0 | (93.4,98.6) | 10.2 |
| Sabah | 8,818 | 4,006 | 63.5 | 94.8 | (91.8,97.9) | 10.8 | 4,812 | 78.5 | 111.1 | (107.8,114.4) | 11.7 |
| WPKL&P | 7,447 | 3,319 | 73.4 | 87.7 | (84.6,90.8) | 10.1 | 4,128 | 94.3 | 105.9 | (102.6,109.3) | 11.6 |
| Kedah | 6,759 | 2,944 | 61.0 | 64.7 | (62.3,67.0) | 7.5 | 3,815 | 79.3 | 76.4 | (74.0,78.9) | 8.0 |
| Pahang | 5,962 | 2,774 | 73.1 | 84.8 | (81.6,87.9) | 9.6 | 3,188 | 90.6 | 96.9 | (93.5,100.3) | 10.3 |
| Kelantan Melaka | 5,888 | 2,675 | 66.4 | 80.3 | (77.2,83.4) | 9.1 | 3,213 2,847 | 80.0 141.0 | 85.6 136.1 | (82.6,88.5) (131.0,141.1) | 8.9 14.1 |
| N. Sembilan | 5,242 5,216 | 2,395 | 120.0 88.8 | 124.5 | (119.5,129.5) (89.0,96.8) | 13.4 10.4 | 2,047 | 122.4 | 117.6 | (131.0, 141.1) | 12.3 |
| Terengganu | 4,233 | 2,227 1,953 | 71.8 | 92.9 92.1 | (88.0,96.3) | 10.4 | 2,303 | 86.8 | 100.5 | (96.4,104.7) | 10.5 |
| Perlis | 4,233 1,047 | 445 | 71.0 76.9 | 92.1 75.7 | (68.6,82.8) | 8.3 | 602 | 99.8 | 95.0 | (87.3,102.7) | 10.3 |
| W.P. Labuan | 1,047 | 84 | 40.7 | 102.4 | (70.9,134.0) | 6.2 | 112 | 56.3 | 120.7 | (90.9,150.6) | 10.1 |
| | 100 | 01 | | . 52. 1 | (. 5.5, 15 1.5) | V.L | | | *** | () | |

4.2 Staging by Cancer Sites

Table 15. Staging for all cancer types, Malaysia, 2012-2016

| ICD10 | SITES | SEX | TOTAL | NO. WITH RECORDED | % RECORDED | | | | S | TAGE | | | |
|-------------------|-------------------------------|-------------|----------------------|-------------------|----------------------|-----------------------------------------------------------------------|----------------------------|----------------------------------|----------------------|--------------------------------------------|------------------------------------------------------|----------------------------------------|----------------------------------------------|
| ICDIU | 51125 | SEX | IUIAL | STAGE | STAGE | - 1 | % | II | % | III | % | IV | % |
| C00 | Lip | M F | 27 52 | 13 34 | 48.1 65.4 | 4 10 | 30.8 29.4 | 4 9 | 30.8 26.5 | 3 | 23.1 23.5 | 2 7 | 15.4 20.6 |
| C01-02 | Tongue | M F | 560 472 | 34 356 283 | 63.6 | 62 | 29.4 17.4 16.3 | 70 | 26.5 19.7 24.4 | 75 52 | 21 1 | 149 116 | 20.6 41.9 41.0 |
| C03-06 | Mouth | M | 400 | 237 | 60.0 59.3 | 62 46 25 42 | 10.5 14.7 | 45 | 19.0 21.0 | 45 | 18.4 19.0 18.9 | 122 130 | 51.5 45.5 45.5 |
| C07-08 | Salivary Glands | F M F | 464 293 | 237 286 134 | 61.6 45.7 | 22 | 16.4 | 69 45 60 22 39 13 | 16.4 | 3 8 75 52 45 54 29 21 | 21.6 | 61 | 45.5 |
| C09 | Tonsil | M | 257 144 62 | 137 80 34 | 53.3 55.6 | 22 26 4 | 19.0 5.0 2.9 | 13 | 28.5 16.3 | 21 17 9 | 15.3 21.3 26.5 | 51 46 17 | 57.5 |
| C10 | Other Oropharynx | F M | 62 99 30 | 69 | 54.8 69.7 | 1 6 | 8.7 | 7 6 | 20.6 8.7 | 9 21 2 | 30.4 | 36 | 37.2 57.5 50.0 52.2 |
| C11 | Nasopharynx | F M F | 30 3,359 1,238 | 19 2,193 | 63.3 65.3 | 6 2 222 81 | 10.5 10.1 9.9 | 4 451 205 | 21.1 20.6 | 647 | 10.5 29.5 31.1 | 873 278 | 39.8 |
| C12-13 | Hypopharynx | F M | 132 | 819 88 | 66.2 66.7 | 81 3 | 9.9 3.4 | 205 13 | 25.0 14.8 | 647 255 24 | 31.1 27.3 | 278 48 | 33.9 54.5 61.7 |
| C14 | Pharynx Unspec. | F M | 73 40 17 | 47 17 | 64.4 42.5 | 3 2 1 | 6.4 11.8 | 4 | 8.5 35.3 | 11 2 | 23.4 11.8 | 29 7 | 61.7 41.2 |
| C15 | Oesophagus | F M | 17 788 | 8 387 | 47.1 49.1 | 1 22 | 11.8 12.5 5.7 | 49 | 12.7 | 1 98 | 12.5 | 6 218 | 41.2 75.0 56.3 |
| C16 | Stomach | F M | 337 1,818 | 151 | 44.8 47.0 | 11 57 | 7.3 6.7 | 24 105 | 15.9 | 44 254 151 | 25.3 29.1 29.7 25.8 23.8 26.8 32.8 | 72 439 336 | 56.3 47.7 51.3 |
| C17 | Small Intestine | F M | 1,188 174 | 855 586 63 | 49.3 36.2 | 39 6 | 6.7 | 60 | 12.3 10.2 12.7 | 151 15 | 25.8 | 336 34 | 57.3 54.0 |
| | | F | 128 8,701 | 56 4,806 | 43.8 | 8 | 9.5 14.3 7.4 | 6 971 | 10.7 | 15 | 26.8 | 27 | 48.2 |
| C18-21 | Colorectal | M F | 6,814 | 3,859 | 43.8 55.2 56.6 | 254 | 6.6 | 784 | 20.2 | 1,574 1,574 1,270 139 | 32.9 11.6 | 1,904 1,551 | 57.3 54.0 48.2 39.6 40.2 73.9 |
| C22 | Liver | M F | 2,949 1,084 | 1,200 435 | 40.7 40.1 | 26 | 5.8 6.0 | 105 32 | 8.8 7.4 | 52 | 12.0 | 887 325 133 | 74.7 |
| C23-24 | Gallbladder Etc. | M F | 491 553 | 207 253 | 42.2 45.8 | 21 24 | 10.1 9.5 3.0 | 32 21 31 | 10.1 12.3 9.9 | 32 29 56 | 12.0 15.5 11.5 | 169 | 64.3 66.8 77.6 |
| C25 | Pancreas | M F | 1,167 882 | 594 477 | 50.9 54.1 | 18 18 | 3.0 3.8 16.7 | 59 51 24 | 10.7 | 56 64 | 9.4 13.4 | 461 344 69 | 77.6 72.1 47.9 |
| C30-31 | Nose, Sinuses Etc. | M F | 276 152 | 144 83 | 52.2 54.6 | 24 15 | 18.1 | 15 | 16.7 18.1 | 64 27 17 | 18.8 20.5 | 69 36 179 | 47.9 43.4 36.9 |
| C32 | Larynx | M F | 780 107 | 485 54 | 62.2 50.5 | 357 254 69 26 21 24 18 18 24 15 98 6 | 20.2 11.1 | 82 10 | 16.9 18.5 | 126 17 | 26.0 31.5 | 179 21 | 38.9 |
| C33-34 | Trachea, Bronchus, Lung | g M F | 7,686 3,570 | 4,633 2,187 | 60.3 61.3 | 115 67 | 20.2 11.1 2.5 3.1 | 184 100 | 4.0 4.6 | 716 242 | 18.8 20.5 26.0 31.5 15.5 11.1 | 3,618 1,778 | 78.1 81.3 61.2 |
| C37-38 | Other Thoracic Organs | M | 246 151 | 103 56 | 41.9 37.1 | 8 5 | 7.8 | 14 7 | 13.6 12.5 | 18 11 | 17.5 19.6 | 63 | 61.2 58.9 |
| C40-41 | Bone | M F | 523 387 | 168 104 | 32.1 26.9 | 21 20 | 8.9 12.5 19.2 | 31 12 | 18.5 11.5 | 23 18 | 13.7 | 93 54 | 58.9 55.4 51.9 |
| C43 | Melanoma Of Skin | M | 184 163 | 72 65 479 | 39.1 39.9 | 8 6 | 11 1 | 10 14 | 13.9 21.5 | 12 11 | 13.7 17.3 16.7 16.9 | 42 | 58.3 |
| C44 | Other Skin | M F | 1,797 1,395 | 479 368 | 26.7 26.4 | 247 214 | 9.2 51.6 58.2 | 89 78 | 18.6 | 51 | 10.6 8.2 | 33 93 54 42 34 92 46 | 52.3 19.2 12.5 |
| C45 | Mesothelioma | М | 35 | 13 7 | 37.1 | 214 | - | 1 | 21.2 | 30 5 | 38.5 | 8 | 61.5 71.4 |
| C46 | Kaposi Sarcoma | M | 15 37 | 7 | 46.7 18.9 | 1 | 14.3 | 2 | 14.3 28.6 | 1 | 14.3 14.3 | 5 | 42.9 |
| C47;C49 | Connective, Soft Tissue | M | 597 | 1 175 | 33.3 29.3 | 35 | 20.0 | 36 22 | 20.6 | 31 | 17.7 | 73 59 | 100.0 41.7 |
| C50 | Breast | F M | 469 291 | 131 139 | 27.9 47.8 | 28 20 | 21.4 14.4 17.5 | 43 | 16.8 30.9 34.5 | 35 3,391 | 16.8 25.2 | 41 | 45.0 29.5 |
| C51 | Vulva | F | 21,634 127 | 13,485 63 | 62.3 49.6 | 20 2,366 16 | 25.4 | 4,650 11 | 17.5 | 3,391 19 | 25.2 25.1 30.2 | 3,078 17 | 29.5 22.8 27.0 |
| C51 C52 C53 | Vagina Cervix Uteri | F | 112 3,981 | 55 2,771 | 49.1 69.6 | 8 | 14.5 23.7 | 15 977 | 27.3 35.3 15.4 | 9 619 | 16.4 22.3 23.0 20.5 | 23 519 | 41.8 18.7 |
| C53 C54 | Corpus Uteri | F | 2,898 912 | 1,911 537 | 65.9 58.9 | 656 869 242 | 45.5 45.1 | 977 295 68 | 15.4 12.7 | 439 110 | 23.0 | 308 117 | 16.1 |
| C55 C56 | Uterus Unspec. Ovary | F | 3,575 | 2,507 | 70.1 | 789 | 31.5 | 306 | 12.2 | 764 | 30.5 | 648 | 21.8 25.8 |
| C57 C58 | Other Female Genital Placenta | F | 116 78 | 56 25 | 48.3 32.1 | 17 7 | 30.4 28.0 | 4 | 7.1 8.0 | 21 6 | 37.5 24.0 | 14 10 | 25.0 40.0 |
| C60 C61 | Penis | М | 116 | 31 | 26.7 | 6 | 19.4 | 6 | 19.4 | 7 | 22.6 15.4 | 10 12 894 | 38.7 53.2 31.9 |
| C62 | Prostate Testis | M M | 4,189 636 | 1,682 276 | 40.2 43.4 | 226 85 5 | 13.4 30.8 | 303 58 | 18.0 21.0 | 259 45 | 16.3 | 88 | 31.9 |
| C62 C63 C64 | Other Male Genital | M | 45 1,276 | 17 636 | 37.8 49.8 | 5 124 | 29.4 19.5 | 4 81 | 23.5 | 45 3 72 | 16.3 17.6 11.3 | 5 359 | 29.4 56.4 |
| | Kidney | M F | 595 24 | 264 11 | 44.4 | 58 | 22.0 | 49 | 12.7 18.6 36.4 | 40 3 3 | 15.2 27.3 | 117 | 44.3 36.4 |
| C65 | Renal Pelvis | M F | 7 | 5 19 | 45.8 71.4 | 2 | 15.9 | | - | 3 | 60.0 | 2 | 40.0 |
| C66 | Ureter | M F | 44 20 | 12 | 43.2 60.0 | 3 2 | 15.8 16.7 | 3 | 15.8 25.0 | 6 4 | 31.6 33.3 13.3 | 3 | 36.8 25.0 |
| C67 | Bladder | M F | 1,715 407 | 667 163 | 38.9 40.0 | 217 48 | 32.5 29.4 | 150 34 | 22.5 20.9 | 89 28 2 | 17.2 | 211 53 | 31.6 32.5 |
| C68 | Other Urinary Organs | M F | 17 5 | 4 1 | 23.5 20.0 | 1 | 25.0 | 1 | 25.0 | 1 | 50.0 100.0 | | - |
| C69 | Eye | M F | 89 95 | 15 18 | 16.9 18.9 | 4 3 | 26.7 16.7 | 5 2 | 33.3 11.1 | 2 | 13.3 16.7 | 4 10 | 26.7 55.6 |
| C70-72 | Brain, Nervous System | M F | 1,117 980 | 299 242 | 26.8 | 36 53 84 | 12.0 | 40 41 | 13.4 16.9 | 58 42 | 19.4 17.4 | 165 106 | 26.7 55.6 55.2 43.8 |
| C73 | Thyroid | M F | 749 2,137 | 321 810 | 24.7 42.9 37.9 | 84 345 | 21.9 26.2 42.6 | 50 165 | 15.6 20.4 | 42 58 102 | 18.1 12.6 | 129 198 | 40.2 24.4 |
| C74 | Adrenal Gland | F M F | 67 53 | 23 19 | 34.3 35.8 | 1 | - 53 | 2 2 | 8.7 10.5 | 2 | 8.7 15.8 | 19 | 82.6 68.4 |
| C75 | Other Endocrine | M | 98 49 | 15 11 | 15.3 22.4 | 3 | 20.0 27.3 | 3 1 | 20.0 9.1 | 2 3 3 2 285 | 20.0 18.2 | 13 6 5 | 40.0 |
| C81- 85;C96 | Lymphoma | M | 3,412 2,418 | 1,394 1,027 | 40.9 42.5 | 162 131 | 11.6 | 367 291 | 26.3 28.3 | 285 229 | 20.4 22.3 | 580 376 | 45.5 41.6 36.6 |
| | Immunoproliferative Dis. | M | 79 | 24 15 | 30.4 33.3 | 2 6 | 12.8 8.3 40.0 | 3 2 | 12.5 | 4 2 | 16.7 13.3 | 15 5 | 62.5 |
| C88 | Multiple Myeloma | M | 45 429 | 63 | 14.7 | 7 | 11.1 | 10 | 13.3 15.9 | 26 | 41.3 | 20 | 33.3 31.7 32.6 |
| C90 | Others | M | 347 1,395 | 46 432 | 13.3 31.0 | 47 | 4.3 10.9 | 12 37 | 26.1 8.6 | 17 53 | 37.0 12.3 | 15 295 | 68.3 |
| | All Sites | F | 1,220 110,965 | 406 58,635 | 33.3 52.8 | 9,102 | 9.4 15.5 | 30 12,194 | 7.4 20.8 | 70 13,384 | 17.2 22.8 | 268 23,955 | 66.0 40.9 |
| | | | | | | | | | | | | | |

4.3 **Quality Indicators**

Table 16. Quality indicators for all cancer types, Malaysia, 2012-2016

| CD-10 SITES Total | %* |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| C01-C02 Tongue 1,032 1,019 98.7 0 C03-C06 Mouth 864 860 99.5 0 C07-C08 Salivary Glands 550 541 98.4 0 C09 Tonsil 206 204 99.0 0 C10 Other Oropharynx 129 125 96.9 0 C11 Nasopharynx 4,597 4,548 98.9 0 C12-13 Hypopharynx 205 202 98.5 0 C14 Pharynx Unspec. 57 56 98.2 0 C15 Oesophagus 1,125 1,087 96.6 0 C16 Stomach 3,006 2,934 97.6 1 C17 Small Intestine 302 293 97.0 0 C18-C21 Colorectal 15,515 15,147 97.6 1 C22 Liver 4,033 2,754 68.3 1 C23-C24 | |
| C01-C02 Tongue 1,032 1,019 98.7 0 C03-C06 Mouth 864 860 99.5 0 C07-C08 Salivary Glands 550 541 98.4 0 C09 Tonsil 206 204 99.0 0 C10 Other Oropharynx 129 125 96.9 0 C11 Nasopharynx 4,597 4,548 98.9 0 C12-13 Hypopharynx 205 202 98.5 0 C14 Pharynx Unspec. 57 56 98.2 0 C15 Oesophagus 1,125 1,087 96.6 0 C15 Oesophagus 1,125 1,087 96.6 0 C16 Stomach 3,006 2,934 97.6 1 C17 Smäll Intestine 302 293 97.0 0 C18-C21 Colorectal 15,515 15,147 97.6 1 C22 | - |
| C07-C08 Salivary Glands 550 541 98.4 0 C09 Tonsil 206 204 99.0 0 C10 Other Oropharynx 129 125 96.9 0 C11 Nasopharynx 4,597 4,548 98.9 0 C12-13 Hypopharynx 205 202 98.5 0 C14 Pharynx Unspec. 57 56 98.2 0 C15 Oesophagus 1,125 1,087 96.6 0 C16 Stomach 3,006 2,934 97.6 1 C17 Small Intestine 302 293 97.0 0 C18-C21 Colorectal 15,515 15,147 97.6 1 C22 Liver 4,033 2,754 68.3 1 C22-L Liver 4,033 2,754 68.3 1 C32-C24 Galibladder Etc. 1,044 908 87.0 1 C33-C | - |
| C09 Tonsil 206 204 99.0 0 C10 Other Oropharynx 129 125 96.9 0 C11 Nasopharynx 4,597 4,548 98.9 0 C12-13 Hypopharynx 205 202 98.5 0 C14 Pharynx Unspec. 57 56 98.2 0 C15 Oesophagus 1,125 1,087 96.6 0 C16 Stomach 3,006 2,934 97.6 1 C17 Small Intestine 302 293 97.0 0 C18-C21 Colorectal 15,515 15,147 97.6 1 C17 Small Intestine 302 293 97.0 0 C18-C21 Colorectal 15,515 15,147 97.6 1 C22 Liver 4,033 2,754 68.3 1 C23-C24 Gallbladder Etc. 1,044 908 87.0 1 | - |
| C10 Other Oropharynx 129 125 96.9 0 C11 Nasopharynx 4,597 4,548 98.9 0 C12-13 Hypopharynx 205 202 98.5 0 C14 Pharynx Unspec. 57 56 98.2 0 C14 Pharynx Unspec. 57 56 98.2 0 C15 Oesophagus 1,125 1,087 96.6 0 C16 Stomach 3,006 2,934 97.6 1 C17 Small Intestine 302 293 97.0 0 C18-C21 Colorectal 15,515 15,147 97.6 1 C22 Liver 4,033 2,754 68.3 1 C22-Liver 4,033 2,754 68.3 1 C23-C24 Gallbladder Etc. 1,044 908 87.0 1 C25 Pancreas 2,049 1,624 79.3 1 C30-C31 <td< td=""><td>-</td></td<> | - |
| C11 Nasopharynx 4,597 4,548 98.9 0 C12-13 Hypopharynx 205 202 98.5 0 C14 Pharynx Unspec. 57 56 98.2 0 C15 Oesophagus 1,125 1,087 96.6 0 C16 Stomach 3,006 2,934 97.6 1 C17 Small Intestine 302 293 97.0 0 C18-C21 Colorectal 15,515 15,147 97.6 1 C22 Liver 4,033 2,754 68.3 1 C23-C24 Gallbladder Etc. 1,044 908 87.0 1 C25 Pancreas 2,049 1,624 79.3 1 C30-C31 Nose, Sinuses Etc. 428 421 98.4 0 C32 Larynx 887 875 98.6 0 C33-C34 Trachea, Bronchus, Lung 11,256 9,945 88.4 1 <t< td=""><td>-</td></t<> | - |
| C12-13 Hypopharynx 205 202 98.5 0 C14 Pharynx Unspec. 57 56 98.2 0 C15 Oesophagus 1,125 1,087 96.6 0 C16 Stomach 3,006 2,934 97.6 1 C17 Small Intestine 302 293 97.0 0 C18-C21 Colorectal 15,515 15,147 97.6 1 C22 Liver 4,033 2,754 68.3 1 C23-C24 Gallbladder Etc. 1,044 908 87.0 1 C25 Pancreas 2,049 1,624 79.3 1 C30-C31 Nose, Sinuses Etc. 428 421 98.4 0 C32 Larynx 887 875 98.6 0 C32 Larynx 887 875 98.6 0 C33-C34 Trachea, Bronchus, Lung 11,256 9,945 88.4 1 | - |
| C14 Pharynx Unspec. 57 56 98.2 0 C15 Oesophagus 1,125 1,087 96.6 0 C16 Stomach 3,006 2,934 97.6 1 C17 Small Intestine 302 293 97.0 0 C18-C21 Colorectal 15,515 15,147 97.6 1 C22 Liver 4,033 2,754 68.3 1 C23-C24 Gallbladder Etc. 1,044 908 87.0 1 C25 Pancreas 2,049 1,624 79.3 1 C30-C31 Nose, Sinuses Etc. 428 421 98.4 0 C32 Larynx 887 875 98.6 0 C33-C34 Trachea, Bronchus, Lung 11,256 9,945 88.4 1 C37-C38 Other Thoracic Organs 397 377 95.0 0 C43 Melanoma Of Skin 347 345 99.4 0 | - |
| C15 Oesophagus 1,125 1,087 96.6 0 C16 Stomach 3,006 2,934 97.6 1 C17 Small Intestine 302 293 97.0 0 C18-C21 Colorectal 15,515 15,147 97.6 1 C22 Liver 4,033 2,754 68.3 1 C22 Liver 4,033 2,754 68.3 1 C23-C24 Gallbladder Etc. 1,044 908 87.0 1 C25 Pancreas 2,049 1,624 79.3 1 C30-C31 Nose, Sinuses Etc. 428 421 98.4 0 C32 Larynx 887 875 98.6 0 C33-C34 Trachea, Bronchus, Lung 11,256 9,945 88.4 1 C37-C38 Other Thoracic Organs 397 377 95.0 0 C44 Bone 910 877 96.4 0 C43 <td>-</td> | - |
| C16 Stomach 3,006 2,934 97.6 1 C17 Small Intestine 302 293 97.0 0 C18-C21 Colorectal 15,515 15,147 97.6 1 C22 Liver 4,033 2,754 68.3 1 C23-C24 Gallbladder Etc. 1,044 908 87.0 1 C25 Pancreas 2,049 1,624 79.3 1 C30-C31 Nose, Sinuses Etc. 428 421 98.4 0 C32 Larynx 887 875 98.6 0 C33-C34 Trachea, Bronchus, Lung 11,256 9,945 88.4 1 C37-C38 Other Thoracic Organs 397 377 95.0 0 <t< td=""><td>-</td></t<> | - |
| C17 Small Intestine 302 293 97.0 0 C18-C21 Colorectal 15,515 15,147 97.6 1 C22 Liver 4,033 2,754 68.3 1 C23-C24 Gallbladder Etc. 1,044 908 87.0 1 C25 Pancreas 2,049 1,624 79.3 1 C30-C31 Nose, Sinuses Etc. 428 421 98.4 0 C32 Larynx 887 875 98.6 0 C33-C34 Trachea, Bronchus, Lung 11,256 9,945 88.4 1 C37-C38 Other Thoracic Organs 397 377 95.0 0 C40-C41 Bone 910 877 96.4 0 C43 Melanoma Of Skin 347 345 99.4 0 C44 Other Skin 3,192 3,182 99.7 0 C45 Mesothelioma 50 50 100.0 0 | 0.0 |
| C18-C21 Colorectal 15,515 15,147 97.6 1 C22 Liver 4,033 2,754 68.3 1 C23-C24 Gallbladder Etc. 1,044 908 87.0 1 C25 Pancreas 2,049 1,624 79.3 1 C30-C31 Nose, Sinuses Etc. 428 421 98.4 0 C32 Larynx 887 875 98.6 0 C33-C34 Trachea, Bronchus, Lung 11,256 9,945 88.4 1 C37-C38 Other Thoracic Organs 397 377 95.0 0 C40-C41 Bone 910 877 96.4 0 C43 Melanoma Of Skin 347 345 99.4 0 C44 Other Skin 3,192 3,182 99.7 0 C45 Mesothelioma 50 50 100.0 0 C46 Kaposi Sarcoma 40 39 97.5 0 | - |
| C22 Liver 4,033 2,754 68.3 1 C23-C24 Gallbladder Etc. 1,044 908 87.0 1 C25 Pancreas 2,049 1,624 79.3 1 C30-C31 Nose, Sinuses Etc. 428 421 98.4 0 C32 Larynx 887 875 98.6 0 C33-C34 Trachea, Bronchus, Lung 11,256 9,945 88.4 1 C37-C38 Other Thoracic Organs 397 377 95.0 0 C40-C41 Bone 910 877 96.4 0 C43 Melanoma Of Skin 347 345 99.4 0 C44 Other Skin 3,192 3,182 99.7 0 C45 Mesothelioma 50 50 100.0 0 C46 Kaposi Sarcoma 40 39 97.5 0 C47; C49 Connective, Soft Tissue 1,066 1,039 97.5 0 | 0.0 |
| C23-C24 Gallbladder Etc. 1,044 908 87.0 1 C25 Pancreas 2,049 1,624 79.3 1 C30-C31 Nose, Sinuses Etc. 428 421 98.4 0 C32 Larynx 887 875 98.6 0 C33-C34 Trachea, Bronchus, Lung 11,256 9,945 88.4 1 C37-C38 Other Thoracic Organs 397 377 95.0 0 C40-C41 Bone 910 877 96.4 0 C43 Melanoma Of Skin 347 345 99.4 0 C44 Other Skin 3,192 3,182 99.7 0 C45 Mesothelioma 50 50 100.0 0 C46 Kaposi Sarcoma 40 39 97.5 0 C47; C49 Connective, Soft Tissue 1,066 1,039 97.5 0 C50 Breast 21,925 21,713 99.0 0 <td>0.0</td> | 0.0 |
| C25 Pancreas 2,049 1,624 79.3 1 C30-C31 Nose, Sinuses Etc. 428 421 98.4 0 C32 Larynx 887 875 98.6 0 C33-C34 Trachea, Bronchus, Lung 11,256 9,945 88.4 1 C37-C38 Other Thoracic Organs 397 377 95.0 0 C40-C41 Bone 910 877 96.4 0 C43 Melanoma Of Skin 347 345 99.4 0 C44 Other Skin 3,192 3,182 99.7 0 C45 Mesothelioma 50 50 100.0 0 C46 Kaposi Sarcoma 40 39 97.5 0 C47; C49 Connective, Soft Tissue 1,066 1,039 97.5 0 C50 Breast 21,925 21,713 99.0 0 C51 Vulva 127 126 99.2 0 | 0.1 |
| C30-C31 Nose, Sinuses Etc. 428 421 98.4 0 C32 Larynx 887 875 98.6 0 C33-C34 Trachea, Bronchus, Lung 11,256 9,945 88.4 1 C37-C38 Other Thoracic Organs 397 377 95.0 0 C40-C41 Bone 910 877 96.4 0 C43 Melanoma Of Skin 347 345 99.4 0 C44 Other Skin 3,192 3,182 99.7 0 C45 Mesothelioma 50 50 100.0 0 C46 Kaposi Sarcoma 40 39 97.5 0 C47; C49 Connective, Soft Tissue 1,066 1,039 97.5 0 C50 Breast 21,925 21,713 99.0 0 C51 Vulva 127 126 99.2 0 C52 Vagina 112 108 96.4 0 | 0.0 |
| C32 Larynx 887 875 98.6 0 C33-C34 Trachea, Bronchus, Lung 11,256 9,945 88.4 1 C37-C38 Other Thoracic Organs 397 377 95.0 0 C40-C41 Bone 910 877 96.4 0 C43 Melanoma Of Skin 347 345 99.4 0 C44 Other Skin 3,192 3,182 99.7 0 C45 Mesothelioma 50 50 100.0 0 C46 Kaposi Sarcoma 40 39 97.5 0 C47; C49 Connective, Soft Tissue 1,066 1,039 97.5 0 C50 Breast 21,925 21,713 99.0 0 C51 Vulva 127 126 99.2 0 C52 Vagina 112 108 96.4 0 C53 Cervix Uteri 3,981 3,919 98.4 1 | - |
| C37-C38 Other Thoracic Organs 397 377 95.0 0 C40-C41 Bone 910 877 96.4 0 C43 Melanoma Of Skin 347 345 99.4 0 C44 Other Skin 3,192 3,182 99.7 0 C45 Mesothelioma 50 50 100.0 0 C46 Kaposi Sarcoma 40 39 97.5 0 C47; C49 Connective, Soft Tissue 1,066 1,039 97.5 0 C50 Breast 21,925 21,713 99.0 0 C51 Vulva 127 126 99.2 0 C52 Vagina 112 108 96.4 0 C53 Cervix Uteri 3,981 3,919 98.4 1 C54 Corpus Uteri 2,898 2,861 98.7 0 C55 Uterus Unspec. 912 897 98.4 0 | - |
| C40-C41 Bone 910 877 96.4 0 C43 Melanoma Of Skin 347 345 99.4 0 C44 Other Skin 3,192 3,182 99.7 0 C45 Mesothelioma 50 50 100.0 0 C46 Kaposi Sarcoma 40 39 97.5 0 C47; C49 Connective, Soft Tissue 1,066 1,039 97.5 0 C50 Breast 21,925 21,713 99.0 0 C51 Vulva 127 126 99.2 0 C52 Vagina 112 108 96.4 0 C53 Cervix Uteri 3,981 3,919 98.4 1 C54 Corpus Uteri 2,898 2,861 98.7 0 C55 Uterus Unspec. 912 897 98.4 0 | 0.0 |
| C43 Melanoma Of Skin 347 345 99.4 0 C44 Other Skin 3,192 3,182 99.7 0 C45 Mesothelioma 50 50 100.0 0 C46 Kaposi Sarcoma 40 39 97.5 0 C47; C49 Connective, Soft Tissue 1,066 1,039 97.5 0 C50 Breast 21,925 21,713 99.0 0 C51 Vulva 127 126 99.2 0 C52 Vagina 112 108 96.4 0 C53 Cervix Uteri 3,981 3,919 98.4 1 C54 Corpus Uteri 2,898 2,861 98.7 0 C55 Uterus Unspec. 912 897 98.4 0 | - |
| C44 Other Skin 3,192 3,182 99.7 0 C45 Mesothelioma 50 50 100.0 0 C46 Kaposi Sarcoma 40 39 97.5 0 C47; C49 Connective, Soft Tissue 1,066 1,039 97.5 0 C50 Breast 21,925 21,713 99.0 0 C51 Vulva 127 126 99.2 0 C52 Vagina 112 108 96.4 0 C53 Cervix Uteri 3,981 3,919 98.4 1 C54 Corpus Uteri 2,898 2,861 98.7 0 C55 Uterus Unspec. 912 897 98.4 0 | - |
| C45 Mesothelioma 50 50 100.0 0 C46 Kaposi Sarcoma 40 39 97.5 0 C47; C49 Connective, Soft Tissue 1,066 1,039 97.5 0 C50 Breast 21,925 21,713 99.0 0 C51 Vulva 127 126 99.2 0 C52 Vagina 112 108 96.4 0 C53 Cervix Uteri 3,981 3,919 98.4 1 C54 Corpus Uteri 2,898 2,861 98.7 0 C55 Uterus Unspec. 912 897 98.4 0 | - |
| C46 Kaposi Sarcoma 40 39 97.5 0 C47; C49 Connective, Soft Tissue 1,066 1,039 97.5 0 C50 Breast 21,925 21,713 99.0 0 C51 Vulva 127 126 99.2 0 C52 Vagina 112 108 96.4 0 C53 Cervix Uteri 3,981 3,919 98.4 1 C54 Corpus Uteri 2,898 2,861 98.7 0 C55 Uterus Unspec. 912 897 98.4 0 | - |
| C47; C49 Connective, Soft Tissue 1,066 1,039 97.5 0 C50 Breast 21,925 21,713 99.0 0 C51 Vulva 127 126 99.2 0 C52 Vagina 112 108 96.4 0 C53 Cervix Uteri 3,981 3,919 98.4 1 C54 Corpus Uteri 2,898 2,861 98.7 0 C55 Uterus Unspec. 912 897 98.4 0 | - |
| C50 Breast 21,925 21,713 99.0 0 C51 Vulva 127 126 99.2 0 C52 Vagina 112 108 96.4 0 C53 Cervix Uteri 3,981 3,919 98.4 1 C54 Corpus Uteri 2,898 2,861 98.7 0 C55 Uterus Unspec. 912 897 98.4 0 | - |
| C51 Vulva 127 126 99.2 0 C52 Vagina 112 108 96.4 0 C53 Cervix Uteri 3,981 3,919 98.4 1 C54 Corpus Uteri 2,898 2,861 98.7 0 C55 Uterus Unspec. 912 897 98.4 0 | - |
| C52 Vagina 112 108 96.4 0 C53 Cervix Uteri 3,981 3,919 98.4 1 C54 Corpus Uteri 2,898 2,861 98.7 0 C55 Uterus Unspec. 912 897 98.4 0 | - |
| C53 Cervix Uteri 3,981 3,919 98.4 1 C54 Corpus Uteri 2,898 2,861 98.7 0 C55 Uterus Unspec. 912 897 98.4 0 | - |
| C54 Corpus Uteri 2,898 2,861 98.7 0 C55 Uterus Unspec. 912 897 98.4 0 | 0.0 |
| C55 Uterus Unspec. 912 897 98.4 0 | - |
| | _ |
| | 0.0 |
| C57 Other Female Genital 116 112 96.6 0 | _ |
| C58 Placenta 78 74 94.9 0 | - |
| C60 Penis 116 114 98.3 0 | - |
| C61 Prostate 4,189 4,011 95.8 1 | 0.0 |
| C62 Testis 636 616 96.9 0 | - |
| C63 Other Male Genital 45 45 100.0 0 | - |
| C64 Kidney 1,871 1,784 95.4 0 | - |
| C65 Renal Pelvis 31 29 93.5 0 | - |
| C66 Ureter 64 63 98.4 0 | - |
| C67 Bladder 2,122 2,061 97.1 1 | 0.0 |
| C68 Other Urinary Organs 22 22 100.0 0 | - |
| C69 Eye 184 167 90.8 0 C70-C72 Brain, Nervous System 2.097 1.793 85.5 1 | 0.0 |
| | 0.0 |
| C73 Thyroid 2,886 2,841 98.4 0 C74 Adrenal Gland 120 111 92.5 0 | - |
| C75 Other Endocrine 147 140 95.2 0 | _ |
| C81-C85;C96 Lymphoma 5,830 5,820 99.8 1 | 0.0 |
| C88 Immunoproliferative Dis. 124 124 100.0 0 | - |
| C90 Multiple Myeloma 776 744 95.9 0 | - |
| C91-C95 Leukaemia 4,273 4,266 99.8 0 | - |
| Other & Unspecified 2,615 2,255 86.2 2 | 0.1 |
| All sites total 115,238 109,725 95.2 14 | 0.0 |

^{*}Percentage of cases with Morphologically Verified (MV) *Death Certificate Only (DCO) recorded as basis of diagnosis

5.0 COMMENTARY ON 10 SELECTED CANCER SITES

In this section, cancers are reviewed focussing on ethnic variations, staging, age-specific incidence rate as well as annual distributions. International comparisons were made with Singapore cancer incidence 2011-2015 report National Registry of Diseases Office (2017), Singapore Cancer Registry Annual Registry Report 2015 and other countries based on Cancer Incidence in Five Continents, Volume XI (International Agency for Research on Cancer, 2017). Ten most common cancers (combined males and females) were selected.

5.1 Female Breast (ICD-10: C50)

A total of 21,634 cases of female breast cancer were diagnosed for the period of 2012-2016 compared with 18,206 cases in 2007-2011 report. Breast cancer is the most common cancer and accounted for 34.1% of all cancer among females in Malaysia. The ASR was increased from 31.1 in previous report to 34.1 per 100,000 populations. The incidence was highest among Chinese followed by Indians and Malays.

The overall cumulative risk (CumR) was 3.7, highest among Chinese (4.5) and lowest among Malays (3.4). The overall lifetime risk was 1 in 27 compared to 1 in 30 in previous report. In Chinese it was 1 in 22, Indians 1 in 23 and Malays 1 in 30. The incidence increased after the age of 25 years and the peaked age was 60-64 years then reduced after 65 years of aged.

Staging was reported for 13,485 cases (62.3%). Of these 47.9% were detected at late stage (III & IV) which was higher compared to 2007-2011 report (43.2%).

International comparisons shown the highest ASR was for New Zealand: Maori (ASR 117.9) while the lowest was for India, Tripura (ASR 6.9).

Table 17. Female Breast: Cancer incidence summary by year, Malaysia

| All residents | No. | CR | ASR | CumR |
|------------------------|------------------|--------------|--------------|------------|
| 2007-2011 2012-2016 | 18,206 21,634 | 28.6 32.5 | 31.1 34.1 | 3.4 3.7 |
| 2012 | 4,266 | 32.1 | 33.5 | 3.6 |
| 2013 | 4,076 | 30.2 | 31.0 | 3.4 |
| 2014 | 4,150 | 30.8 | 31.7 | 3.5 |
| 2015 | 4,518 | 33.0 | 33.4 | 3.6 |
| 2016 | 4,624 | 33.8 | 34.4 | 3.8 |

Table 18. Female Breast: Incidence summary by year and ethnicity, Malaysia

| | | Mal | ay | | | | | Indian | | | | |
|----------------------------------|-----------------|-----|-----|------|----------------|----|--------------|------------|-----|--------------|-----|------------|
| | No. | CR | ASR | CumR | No. | CR | ASR | CumR | No. | CR | ASR | CumR |
| Female 2007-2011 2012-2016 | 8,225 10,455 | | | | 7,333 7,759 | | 41.5 40.7 | 4.5 4.5 | , | 36.0 39.2 | | 4.2 4.4 |

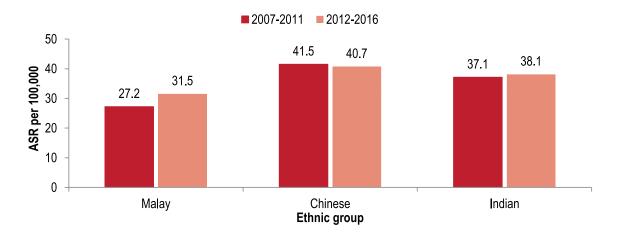


Figure 25. Female Breast: Comparison of age-standardised rate by year and major ethnic group, Malaysia

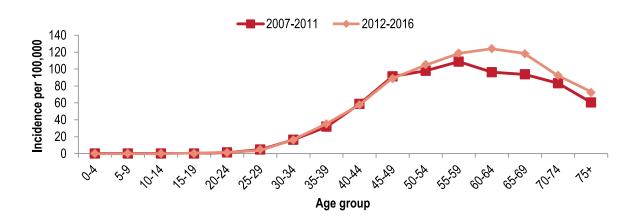


Figure 26. Female Breast: Comparison of age-specific incidence rate by year, Malaysia

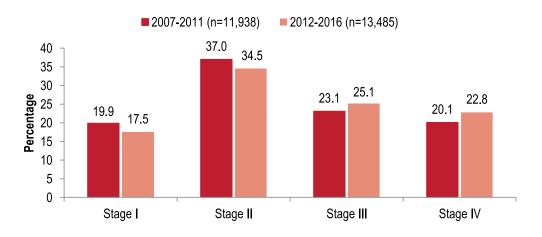


Figure 27. Female Breast: Comparison of staging percentage by year, Malaysia

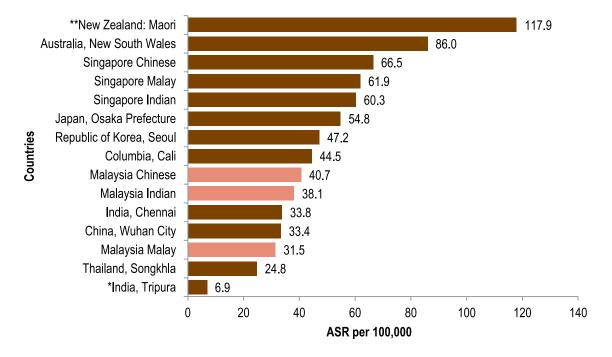


Figure 28. Female Breast: International comparisons – Age-standardised rates

5.2 Colorectal (ICD-10: C18-C21)

A total of 15,515 cases of colorectal cancer were registered for the period of 2012-2016 compared with 13,693 cases in 2007-2011 report. 56.1% were among males and 43.9% were among females. Colorectal cancer was the most common cancer in males and second in females. The incidence of colorectal cancer was highest among Chinese for both sexes but the trend is decreasing compared to previous report as in Figures 29. The lifetime risk for males was 1 in 55. It was 1 in 43 for Chinese, 1 in 65 for Malays and 1 in 70 for Indians. The lifetime risk for females was 1 in 76; for Chinese 1 in 57, Malays 1 in 89 and Indians 1 in 95. The incidence increased with age and peak at the age of 70 and above for both sexes.

Staging was reported for 4,806 (55.2%) and 3,859 (56.6%) respectively for both males and females. Of these 72.4% in males and 73.1% in females were detected at late stage (III & IV) which were higher compared to the previous report (figure 32). International comparisons of the ASR for both sexes are shown in Figure 33.

Table 19. Colorectal: Cancer incidence summary by year, Malaysia

| All _ | | ı | Vlale | | Female | | | | | | |
|-----------|-------|------|-------|------|--------|------|------|------|--|--|--|
| residents | No. | CR | ASR | CumR | No. | CR | ASR | CumR | | | |
| 2007-2011 | 7,646 | 11.7 | 14.6 | 1.8 | 6,047 | 9.5 | 11.1 | 1.3 | | | |
| 2012-2016 | 8,701 | 12.7 | 14.8 | 1.8 | 6,814 | 10.2 | 11.1 | 1.3 | | | |
| 2012 | 1,590 | 11.6 | 13.5 | 1.7 | 1,269 | 9.5 | 10.3 | 1.2 | | | |
| 2013 | 1,628 | 11.8 | 13.4 | 1.6 | 1,290 | 9.6 | 10.2 | 1.2 | | | |
| 2014 | 1,788 | 12.9 | 14.5 | 1.8 | 1,291 | 9.6 | 10.2 | 1.2 | | | |
| 2015 | 1,787 | 12.7 | 14.0 | 1.7 | 1,401 | 10.2 | 10.6 | 1.3 | | | |
| 2016 | 1,908 | 13.6 | 15.0 | 1.9 | 1,563 | 11.4 | 11.9 | 1.4 | | | |

Table 20. Colorectal: Incidence summary by sex, year and ethnicity, Malaysia

| | | Malay | | | | Chinese | | | | Indian | | |
|----------------------------------|----------------|------------|--------------|------------|----------------|--------------|--------------|------------|------------|------------|--------------|------------|
| | No. | CR | ASR | CumR | No. | CR | ASR | CumR | No. | CR | ASR | CumR |
| Male 2007-2011 2012-2016 | 2,872 3,493 | 8.1 9.2 | 11.3 12.2 | 1.4 1.5 | 3,825 4,008 | 23.3 23.9 | 21.1 19.6 | 2.5 2.3 | 389 470 | 8.1 9.6 | 10.3 11.0 | 1.2 1.4 |
| Female 2007-2011 2012-2016 | 2,231 2,912 | 6.4 7.8 | 8.1 9.4 | 1.0 1.1 | 3,023 2,990 | 19.6 18.9 | 17.1 15.2 | 2.0 1.8 | 364 401 | 7.7 8.2 | 8.7 8.5 | 1.1 1.1 |

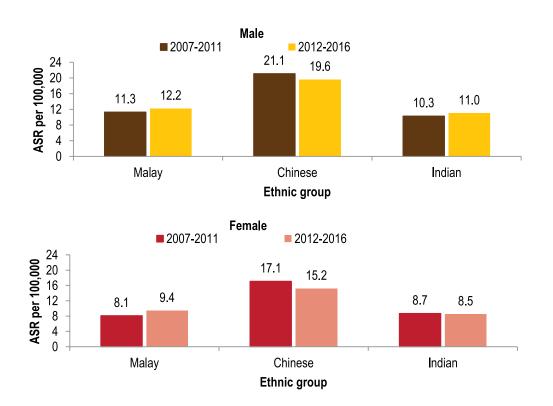


Figure 29. Colorectal: Comparison of age-standardised rate by year, major ethnic group and sex, Malaysia

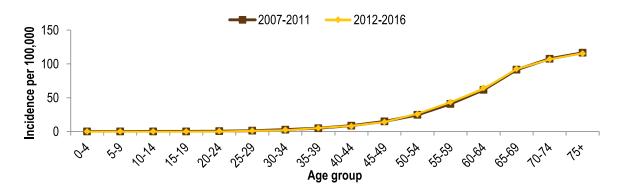


Figure 30. Colorectal: Comparison of age-specific incidence rate by year in males

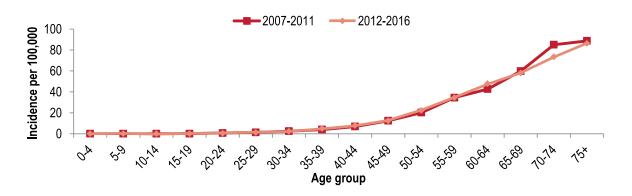
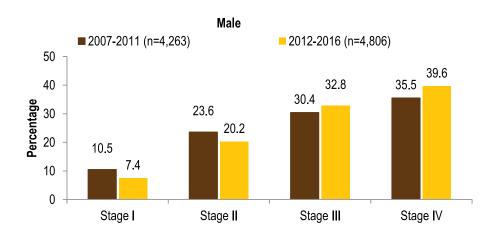


Figure 31. Colorectal: Comparison of age-specific incidence rate by year in females



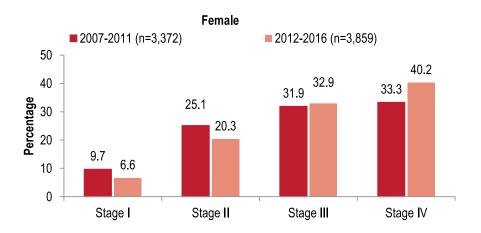
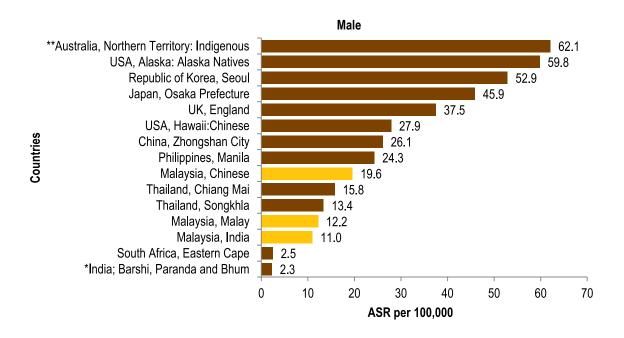
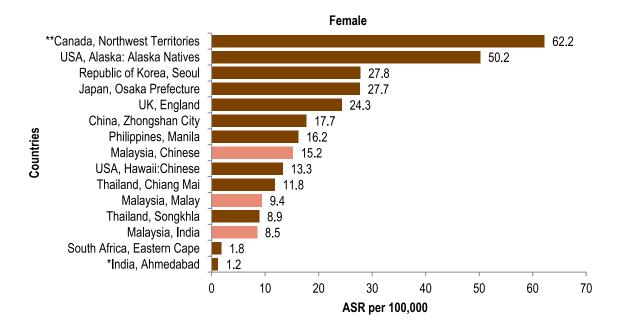


Figure 32. Colorectal: Comparison of staging percentage by year and sex, Malaysia





^{**} The highest incidence from CI5, Volume XI

Figure 33. Colorectal: International comparisons - Age-standardised rates

^{*}The lowest incidence from CI5, Volume XI

5.3 Trachea, bronchus and lung (ICD-10: C33-C34)

A total of 11,256 cases of trachea, bronchus and lung cancers were registered for the period of 2012-2016 compared with 10,608 cases in 2007-2011 report. 68.3% were among males and 31.7% were among females. It was the second most common cancer in males and fifth in females. The lifetime risk for males was 1 in 60. For Chinese, Malays and Indians, it was 1 in 51, 1 in 62 and 1 in 145 respectively. The lifetime risk for females was 1 in 138; for Chinese was 1 in 108, 1 in 169 for Malays and 1 in 251 for Indians.

The ASR was highest among Chinese for both sexes but the trend is increasing among Malays compared to previous report as in Figures 34. The incidence increased with age and peak at the age of 70 and above. Most of the lung cancer cases were detected at very late stage (III & IV) which were above 90% for both sexes (figure 35).

Table 21. Trachea, bronchus and lung: Cancer incidence summary by year, Malaysia

| All | | | Male | | Female | | | | | | |
|------------------------|----------------|--------------|--------------|------------|----------------|-----------------|------------|------------|--|--|--|
| residents | No. | CR | ASR | CumR | No. | CR | ASR | CumR | | | |
| 2007-2011 2012-2016 | 7,415 7,686 | 11.3 11.3 | 14.4 13.2 | 1.8 1.7 | 3,193 3,570 | 5.0 5.4 | 6.0 5.9 | 0.7 0.7 | | | |
| 2012-2010 | 7,000 | 11.5 | 13.2 | 1.7 | 3,370 | J. 4 | 5.9 | 0.7 | | | |
| 2012 | 1,402 | 10.3 | 12.1 | 1.5 | 682 | 5.1 | 5.6 | 0.7 | | | |
| 2013 | 1,589 | 11.5 | 13.2 | 1.7 | 721 | 5.3 | 5.7 | 0.7 | | | |
| 2014 | 1,568 | 11.3 | 13.0 | 1.7 | 698 | 5.2 | 5.6 | 0.7 | | | |
| 2015 | 1,531 | 10.9 | 12.1 | 1.5 | 740 | 5.4 | 5.7 | 0.7 | | | |
| 2016 | 1,596 | 11.4 | 12.6 | 1.6 | 729 | 5.3 | 5.6 | 0.7 | | | |

Table 22. Trachea, bronchus and lung: Incidence summary by sex, year and ethnicity, Malaysia

| | | Malay | | | | Chinese | | | | | Indian | | |
|----------------------------------|----------------|------------|--------------|------------|----------------|--------------|--------------|------------|------------|------------|------------|------------|--|
| | No. | CR | ASR | CumR | No. | CR | ASR | CumR | No. | CR | ASR | CumR | |
| Male 2007-2011 2012-2016 | 3,094 3,500 | 8.8 9.2 | 12.6 12.5 | 1.6 1.6 | 3,390 3,258 | 20.6 19.4 | 18.8 16.0 | 2.3 2.0 | 270 239 | 5.6 4.9 | 7.6 5.7 | 1.0 0.7 | |
| Female 2007-2011 2012-2016 | 1,187 1,492 | 3.4 4.0 | 4.4 4.9 | 0.5 0.6 | 1,486 1,537 | 9.6 9.7 | 8.5 7.8 | 1.0 0.9 | 127 135 | 2.7 2.8 | 3.1 3.0 | 0.4 0.4 | |

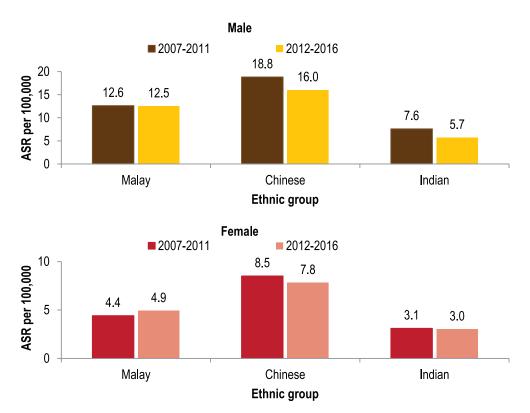


Figure 34. Trachea, bronchus and lung: Comparison of age-standardised rate by year, major ethnic group and sex, Malaysia

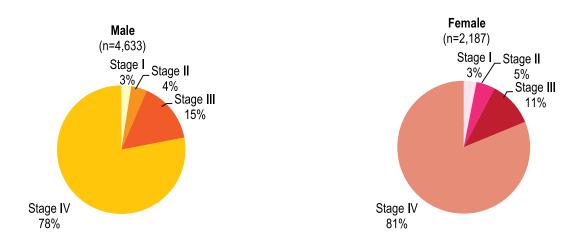


Figure 35. Trachea, bronchus and lung: Staging percentage by sex, Malaysia, 2012-2016

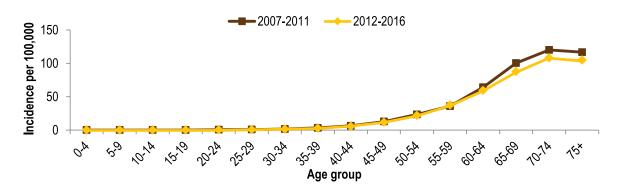


Figure 36. Trachea, bronchus and lung: Comparison of age-specific incidence rate by year in males

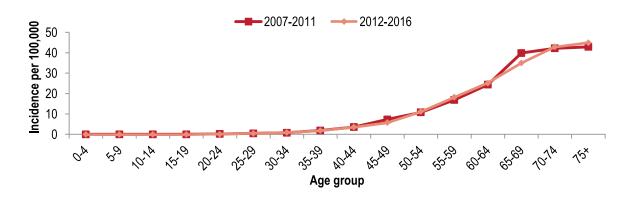
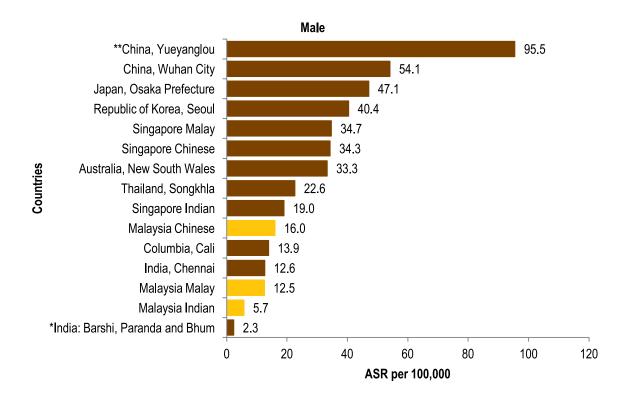
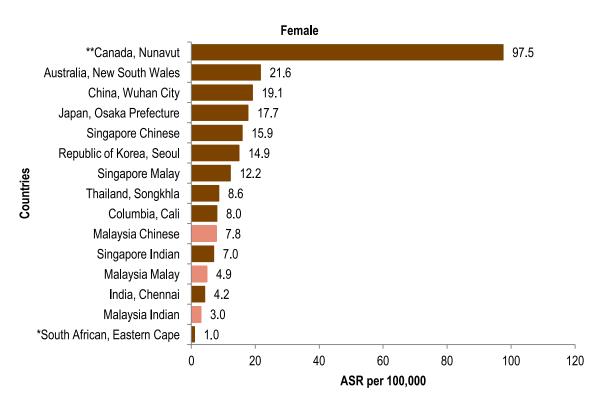


Figure 37. Trachea, bronchus and lung: Comparison of age-specific incidence rate by year in females





**The highest incidence from CI5, Volume XI *The lowest incidence from CI5, Volume XI NB: National Registries of Diseases Office (2017). Singapore Cancer Registry Annual Registry Report 2015.

Figure 38. Trachea, bronchus and lung: International comparisons- Age-standardised rates

5.4 Lymphoma (ICD-10: C81-C85, C96)

A total of 5,830 cases of lymphoma were registered for the period of 2012-2016 compared with 5,374 cases in 2007-2011 report. 58.5% were among males and 41.5% were among females. Lymphoma ranked fourth in males and seventh in females. Incidence in Malay males was highest compared to Chinese and Indians. The lifetime risk for males was 1 in 176; 1 in 167 for Malays, 1 in 189 for Chinese and 1 in 283 for Indians. The lifetime risk for females was 1 in 252; 1 in 245 for Malays, 1 in 280 for Chinese and 1 in 324 for Indians.

Staging was reported for 1,394 (40.9%) and 1,027 (42.5%) cases respectively for males and females (figure 41). Of these 62% in males and 59% in females were detected at late stage (III & IV). International comparisons of the ASR for both sexes are shown in Figure 44 and 45.

Table 23. Lymphoma: Cancer incidence summary by year, Malaysia

| All | | N | Male | | 2,203 3.5 3.8 0 | | | |
|-----------|-------|-----|------|------|-----------------|-----|-----|------|
| residents | No. | CR | ASR | CumR | No. | CR | ASR | CumR |
| 2007-2011 | 3,171 | 4.8 | 5.5 | 0.6 | 2,203 | 3.5 | 3.8 | 0.4 |
| 2012-2016 | 3,412 | 5.0 | 5.3 | 0.6 | • | | | 0.4 |
| 2012 | 656 | 4.8 | 5.1 | 0.5 | 467 | 3.5 | 3.6 | 0.4 |
| 2013 | 621 | 4.5 | 4.8 | 0.5 | 506 | 3.8 | 3.9 | 0.4 |
| 2014 | 673 | 4.9 | 5.0 | 0.5 | 503 | 3.7 | 3.8 | 0.4 |
| 2015 | 784 | 5.6 | 5.8 | 0.6 | 464 | 3.4 | 3.4 | 0.4 |
| 2016 | 678 | 4.8 | 5.1 | 0.5 | 478 | 3.5 | 3.5 | 0.4 |
| | | | | | | | | |

Table 24. Lymphoma: Incidence summary by sex, year and ethnicity, Malaysia

| | | Malay | | | | CI | ninese | | | Indian | | | |
|---------------------------------|-------|-------|-----|------|-----|-----|--------|------|-----|--------|-----|------|--|
| | No. | CR | ASR | CumR | No. | CR | ASR (| CumR | No. | CR | ASR | CumR | |
| Male 2007-2011 2012-2016 | 1,639 | 4.6 | 5.6 | 0.6 | 908 | 5.5 | 5.0 | 0.6 | 187 | 3.9 | 4.2 | 0.4 | |
| | 1,866 | 4.9 | 5.6 | 0.6 | 943 | 5.6 | 4.8 | 0.5 | 178 | 3.6 | 3.7 | 0.4 | |
| Female 2007-2011 2012-2016 | 1,412 | 3.3 | 3.7 | 0.4 | 639 | 4.1 | 3.7 | 0.4 | 130 | 2.7 | 3.0 | 0.4 | |
| | 1,354 | 3.6 | 3.9 | 0.4 | 602 | 3.8 | 3.2 | 0.4 | 151 | 3.1 | 3.0 | 0.3 | |

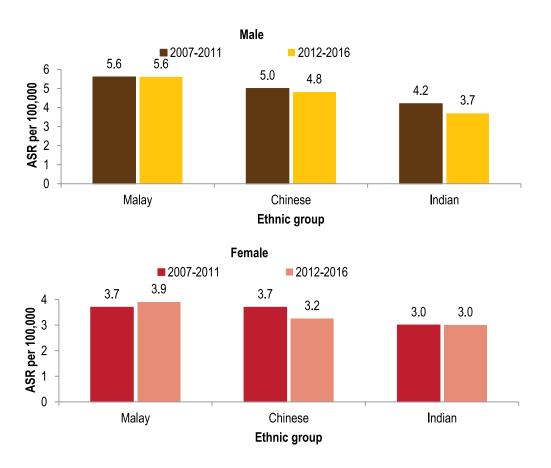


Figure 39. Lymphoma: Comparison of age-standardised rate by year, major ethnic group and sex, Malaysia

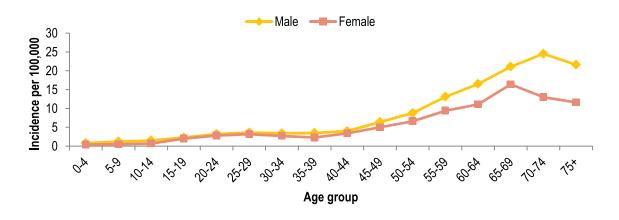


Figure 40. Lymphoma: Age-specific incidence rate by sex, Malaysia, 2012-2016

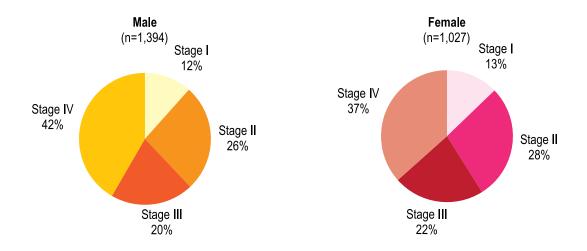


Figure 41. Lymphoma: Staging percentage by sex, Malaysia, 2012-2016

Age-specific incidence rate for Hodgkin and Non-Hodgkin Lymphoma as in Figure 42 and 43

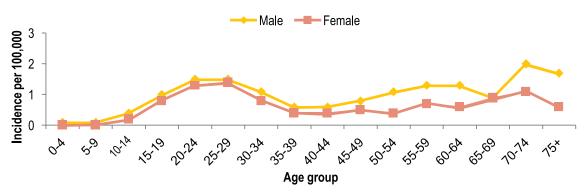


Figure 42. Hodgkin Lymphoma: Age-specific incidence rate by sex, Malaysia, 2012-2016

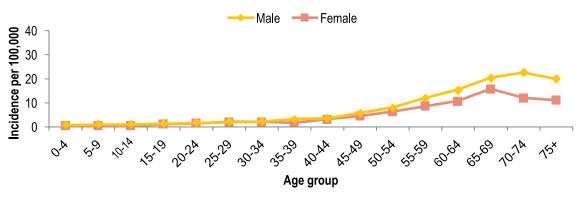


Figure 43. Non-Hodgkin Lymphoma: Age-specific incidence rate by sex, Malaysia, 2012-2016

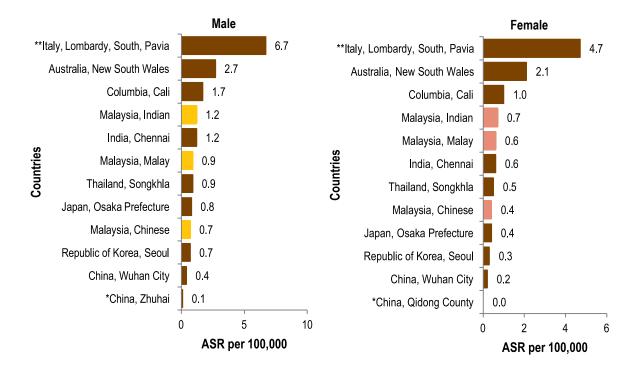


Figure 44. Hodgkin lymphoma: International comparisons - Age-standardised rates

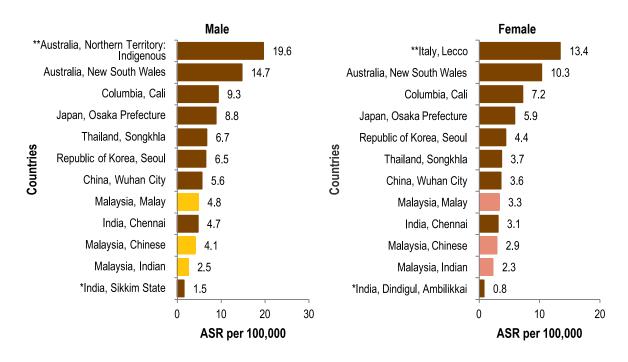


Figure 45. Non-Hodgkin lymphoma: International comparisons – Age-standardised rates

5.5 Nasopharynx (ICD-10: C11)

A total of 4,597 cases of nasopharynx cancer were registered for the period of 2012-2016 compared with 5,090 cases in 2007-2011 report. 73.1% were among males and 26.9% were among females. Nasopharynx was the fifth most common cancer in males. The lifetime risk for males was 1 in 175, in Chinese it was 1 in 108, and 1 in 341 in Malays. The lifetime risk for females was 1 in 482. The incidence in males increased after the age of 25 and peaked at 65 years old.

Staging was reported for 2,193 (65.3%) and 819 (66.2%) respectively for both males and females. Of these 69% in males and 65% in females were detected at late stage (III & IV) which were higher compared to the previous report (figure 48).

Internationally, the highest incidence rate for males was in Zhongshan City, China (ASR 25.0) and in females was in Zhuhai, China (ASR 9.0). The incidence rates for Malaysian Chinese (ASR 8.6) were almost similar with Singaporean Chinese (ASR 9.0).

Table 25. Nasopharynx: Cancer incidence summary by year, Malaysia

| All | | Ma | ale | | | Fem | Female | | | |
|--------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------|---------------------------------|--|--|
| residents | No. | CR | ASR | CumR | No. | CR | ASR | CumR | | |
| 2007-2011 2012-2016 | 3,785 3,359 | 5.8 4.9 | 6.4 5.2 | 0.7 0.6 | 1,305 1,238 | 2.0 1.9 | 2.2 1.9 | 0.2 0.2 | | |
| 2012 2013 2014 2015 2016 | 662 625 707 693 672 | 4.9 4.5 5.1 4.9 4.8 | 5.1 4.7 5.3 5.1 5.0 | 0.6 0.5 0.6 0.6 0.6 | 246 271 233 225 263 | 1.8 2.0 1.7 1.6 1.9 | 1.9 2.0 1.7 1.7 | 0.2 0.2 0.2 0.2 0.2 | | |

Table 26. Nasopharynx: Incidence summary by sex, year and ethnicity, Malaysia

| | Malay | | | | | C | hinese | | | | Indiar | 1 |
|----------------------------------|------------|------------|------------|------------|----------------|--------------|-------------|------------|----------|------------|------------|------------|
| | No. | CR | ASR | CumR | No. | CR | ASR | CumR | No. | CR | ASR | CumR |
| Male 2007-2011 2012-2016 | 959 862 | 2.7 2.3 | 3.3 2.7 | 0.4 0.3 | 2,104 1,748 | 12.8 10.4 | 11.0 8.6 | 1.2 0.9 | 44 25 | 0.9 0.5 | 1.1 0.6 | 0.1 0.1 |
| Female 2007-2011 2012-2016 | 401 383 | 1.2 1.0 | 1.3 1.1 | 0.1 0.1 | 611 549 | 4.0 3.5 | 3.5 2.9 | 0.4 0.3 | 25 18 | 0.5 0.4 | 0.6 0.4 | 0.1 0.0 |

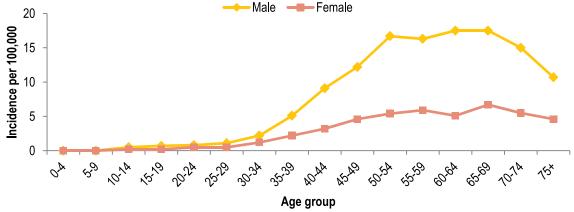


Figure 46. Nasopharynx: Age-specific incidence rate by sex, Malaysia, 2012-2016

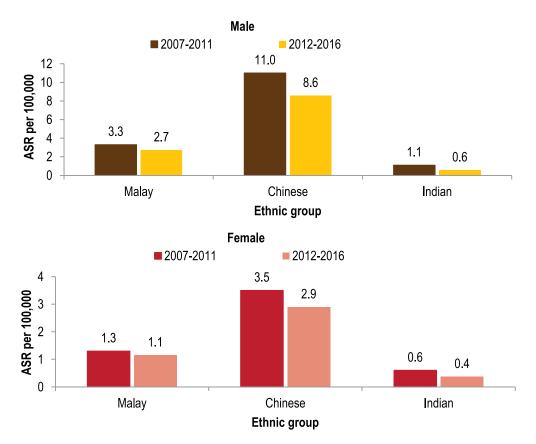


Figure 47. Nasopharynx: Comparison of age-standardised incidence rate by year, major ethnic group and sex, Malaysia

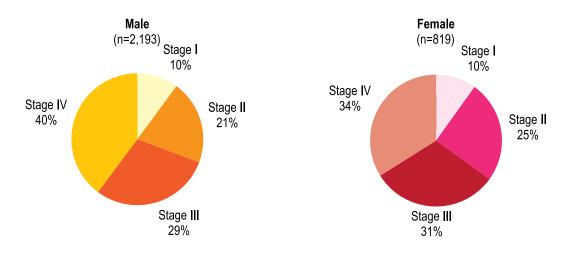
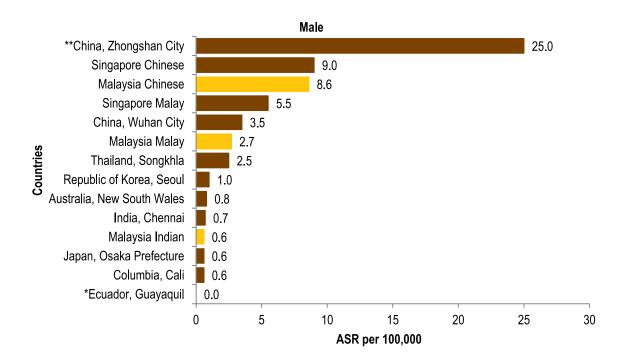


Figure 48. Nasopharynx: Staging percentage by sex, Malaysia, 2012-2016



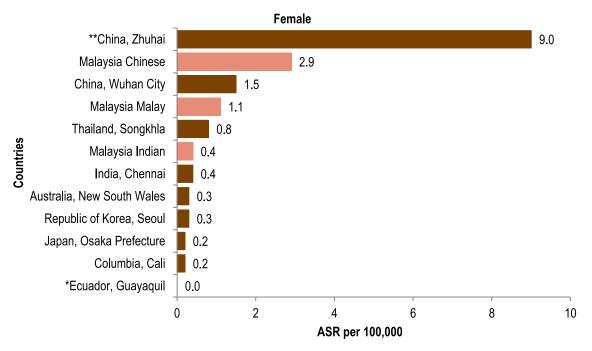


Figure 49. Nasopharynx: International comparisons - Age-standardised rates

5.6 **Leukaemia (ICD-10: C91-C95)**

A total of 4,273 cases of leukaemia were registered for the period of 2012-2016 compared with 4,573 cases in 2007-2011 report. 56.5% were among males and 43.5% were among females and majority of the cases were 0-14 years of age. Leukaemia is the sixth most common cancer in Malaysia and seventh in males and ninth in females. Malays had the highest incidence rates followed by Chinese and Indians in both sexes. The lifetime risk for males was 1 in 307 and for females was 1 in 388.

International comparisons of the ASR for both sexes are shown in Figure 54.

Table 27. Leukaemia: Cancer incidence summary by year, Malaysia

| All | | N | Male | | | Fe | emale | |
|-----------|-------|-----|------|------|-------|-----|-------|------|
| residents | No. | CR | ASR | CumR | No. | CR | ASR | CumR |
| 2007-2011 | 2,549 | 3.9 | 4.2 | 0.4 | 2,024 | 3.2 | 3.4 | 0.3 |
| 2012-2016 | 2,414 | 3.5 | 3.8 | 0.3 | 1,859 | 2.8 | 3.0 | 0.3 |
| 2012 | 491 | 3.6 | 3.8 | 0.3 | 391 | 2.9 | 3.1 | 0.3 |
| 2012 | 468 | 3.4 | 3.6 | 0.3 | 329 | 2.4 | 2.6 | 0.3 |
| 2014 | 493 | 3.6 | 3.8 | 0.3 | 377 | 2.8 | 2.9 | 0.2 |
| 2015 | 458 | 3.3 | 3.4 | 0.3 | 380 | 2.8 | 2.9 | 0.3 |
| 2016 | 504 | 3.6 | 3.9 | 0.3 | 382 | 2.8 | 2.9 | 0.3 |
| | | | | | | | | |

Table 28. Leukaemia: Incidence summary by sex, year and ethnicity, Malaysia

| | | Ma | lay | | | Cł | ninese | | | Indian | | |
|-----------|-------|-----|-----|------|-----|-----|--------|------|-----|--------|-----|------|
| | No. | CR | ASR | CumR | No. | CR | ASR | CumR | No. | CR | ASR | CumR |
| Male | | | | | | | | | | | | |
| 2007-2011 | 1,419 | 4.0 | 4.4 | 0.4 | 657 | 4.0 | 4.0 | 0.3 | 171 | 3.6 | 3.8 | 0.3 |
| 2012-2016 | 1,352 | 3.6 | 3.9 | 0.3 | 661 | 3.9 | 3.8 | 0.3 | 129 | 2.6 | 2.8 | 0.2 |
| Female | | | | | | | | | | | | |
| 2007-2011 | 1,119 | 3.2 | 3.5 | 0.3 | 527 | 3.4 | 3.4 | 0.3 | 137 | 2.9 | 3.0 | 0.3 |
| 2012-2016 | 1,019 | 2.7 | 2.9 | 0.2 | 492 | 3.1 | 2.9 | 0.3 | 123 | 2.5 | 2.6 | 0.3 |
| | | | | | | | | | | | | |

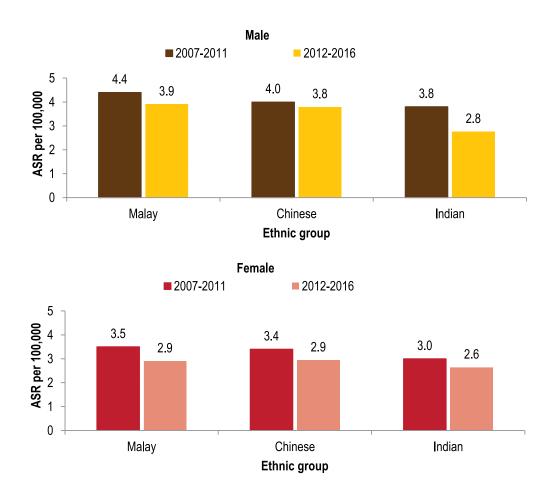


Figure 50. Leukaemia: Comparison of age-standardised incidence rate by year, major ethnic group and sex, Malaysia

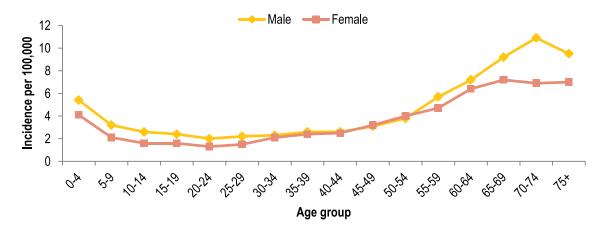


Figure 51. Leukaemia: Age-specific incidence rate by sex, Malaysia, 2012-2016

Leukaemias in this report include lymphoid, myeloid and other unspecified types. The age specific incidence rates by type as shown in figure 52 for male and in figure 53 for female.

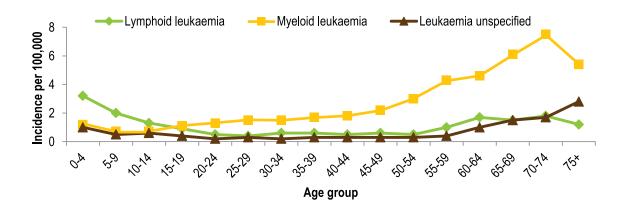


Figure 52. Leukaemia types: Age-specific incidence rate, males, Malaysia, 2012-2016

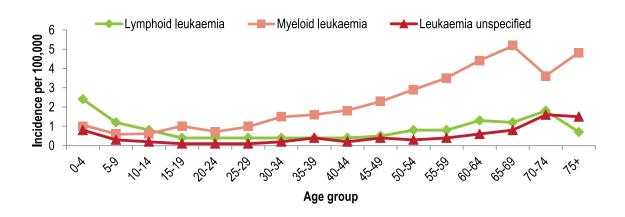
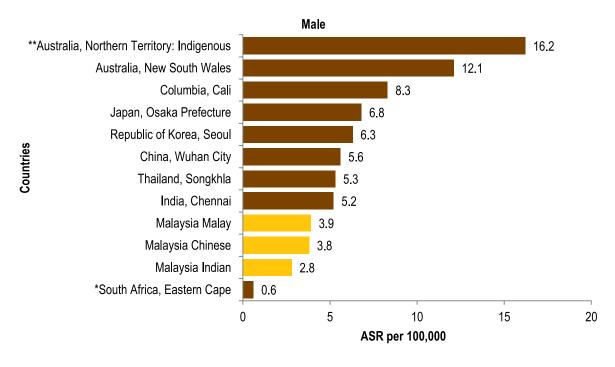
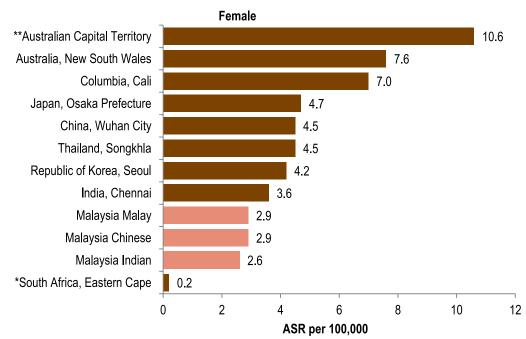


Figure 53. Leukaemia types: Age-specific incidence rate, females, Malaysia, 2012-2016

Countries





^{**}The highest incidence from CI5, Volume XI

Figure 54. Leukaemia: International comparisons - Age-standardised rates

^{*} The lowest incidence from CI5, Volume XI

5.7 **Prostate (ICD-10: C61)**

A total of 4,189 cases of prostate cancer were registered for the period of 2012-2016 compared with 3,132 cases in 2007-2011 report. Prostate cancer was seventh most common cancer in Malaysia and third in males. The incidence was highest among Chinese followed by Indians and Malays. The lifetime risk was 1 in 94. The lifetime risk for Chinese was 1 in 72, Indians was 1 in 108 and Malays was 1 in 117.

Staging was reported for 1,682 cases (40.2%). Of these 68.6% were detected at late stage (III & IV) which was higher compared to 2007-2011 report (60%). International comparisons are shown in Figure 58.

Table 29. Prostate: Cancer incidence summary by year, Malaysia

| All residents | No. | CR | ASR | CumR |
|---------------|-------|-----|-----|------|
| 2007-2011 | 3,132 | 4.8 | 6.6 | 0.9 |
| 2012-2016 | 4,189 | 6.1 | 7.7 | 1.1 |
| 2012 | 839 | 6.1 | 7.7 | 1.0 |
| 2013 | 824 | 6.0 | 7.2 | 1.0 |
| 2014 | 752 | 5.4 | 6.6 | 0.9 |
| 2015 | 867 | 6.2 | 7.3 | 1.0 |
| 2016 | 907 | 6.5 | 7.7 | 1.1 |

Table 30. Prostate: Incidence summary by year and ethnicity, Malaysia

| | | Malay | | | | CI | ninese | | | 1 | | |
|---------------------------------|----------------|------------|------------|------------|----------------|----|-------------|------------|------------|------------|------------|------------|
| | No. | CR | ASR | CumR | No. | CR | ASR | CumR | No. | CR | ASR | CumR |
| Male 2007-2011 2012-2016 | 1,163 1,577 | 3.3 4.1 | 5.3 6.3 | 0.7 0.9 | 1,589 2,040 | | 9.0 10.1 | 1.2 1.4 | 188 245 | 3.9 5.0 | 6.1 6.8 | 0.8 0.9 |

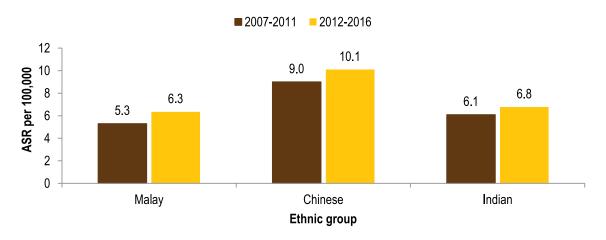


Figure 55. Prostate: Comparison of age-standardised incidence rate by year and major ethnic group, Malaysia

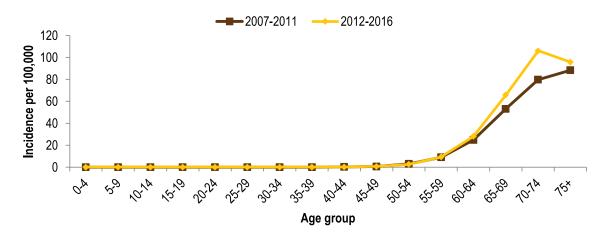


Figure 56. Prostate: Comparison of age-specific incidence rate by year, Malaysia

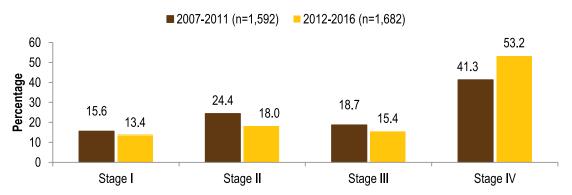
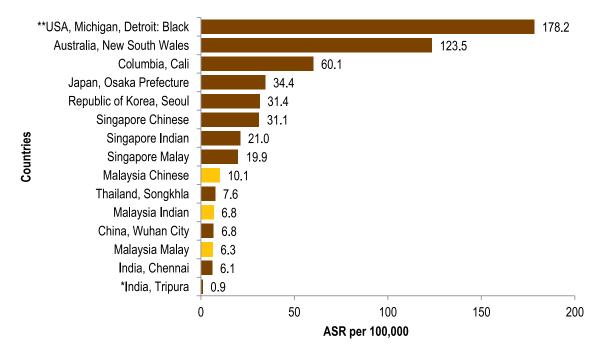


Figure 57. Prostate: Comparison of staging percentage by year, Malaysia



**The highest incidence from CI5, Volume XI *The lowest incidence from CI5, Volume XI NB: National Registry of Diseases Office (2017). Singapore Cancer Registry Annual Registry Report 2015

Figure 58. Prostate: International comparisons – Age-standardised rates

5.8 Liver (ICD-10: C22)

A total of 4,033 cases of liver cancer were diagnosed for the period of 2012-2016 compared with 4,128 cases in 2007-2011 report. 73.1% were among males and 26.9% were among females. Liver cancer is the eighth most common cancer in Malaysia and sixth in males. The incidence of liver cancer increased with age and higher in males compared to females. Chinese were noted to have higher incidence rates than Malays and Indians. The overall lifetime risk was 1 in 164 for males and 1 in 452 for females.

Staging was reported for 1,200 (41%) and 435 (40.1%) cases respectively for both males and females. Of these 86% in males and 87% in females were detected at late stage (III & IV). International comparisons of the ASR for both sexes are shown in Figure 62.

Table 31. Liver: Cancer incidence summary by year, Malaysia

| All | | N | lale | | | | Fem | nale | |
|-----------|-------|-----|------|------|---|-------|-----|------|------|
| residents | No. | CR | ASR | CumR | _ | No. | CR | ASR | CumR |
| 2007-2011 | 3,054 | 4.7 | 5.6 | 0.7 | | 1,074 | 1.7 | 2.0 | 0.2 |
| 2012-2016 | 2,949 | 4.3 | 4.9 | 0.6 | | 1,084 | 1.6 | 1.8 | 0.2 |
| 2012 | 557 | 4.1 | 4.7 | 0.6 | | 188 | 1.4 | 1.6 | 0.2 |
| 2013 | 665 | 4.8 | 5.4 | 0.7 | | 257 | 1.9 | 2.1 | 0.2 |
| 2014 | 602 | 4.3 | 4.9 | 0.6 | | 246 | 1.8 | 2.0 | 0.2 |
| 2015 | 569 | 4.1 | 4.4 | 0.6 | | 185 | 1.4 | 1.4 | 0.2 |
| 2016 | 556 | 4.0 | 4.3 | 0.5 | | 208 | 1.5 | 1.6 | 0.2 |

Table 32. Liver: Incidence summary by sex, year and ethnicity, Malaysia

| | | Malay | | | | Chinese | | | | Indian | | |
|----------------------------------|----------------|------------|------------|------------|----------------|------------|------------|------------|------------|------------|------------|------------|
| | No. | CR | ASR | CumR | No. | CR | ASR | CumR | No. | CR | ASR | CumR |
| Male 2007-2011 2012-2016 | 1,195 1,263 | 3.4 3.3 | 4.5 4.3 | 0.5 0.5 | 1,416 1,284 | 8.6 7.7 | 7.7 6.3 | 0.9 0.8 | 114 147 | 2.4 3.0 | 3.1 3.5 | 0.4 0.4 |
| Female 2007-2011 2012-2016 | 477 517 | 1.4 1.4 | 1.7 1.7 | 0.2 0.2 | 411 411 | 2.7 2.6 | 2.3 2.2 | 0.3 0.3 | 58 63 | 1.2 1.3 | 1.5 1.4 | 0.2 0.2 |

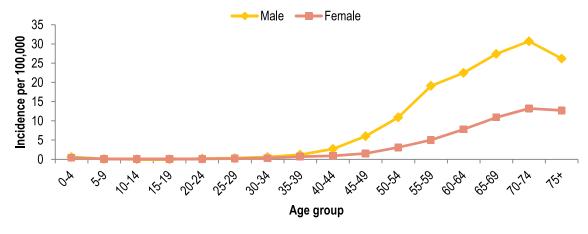


Figure 59. Liver: Age-specific incidence rate by sex, Malaysia, 2012-2016

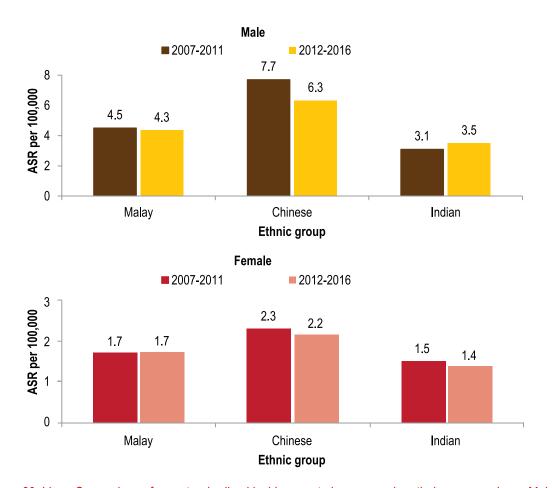


Figure 60. Liver: Comparison of age-standardised incidence rate by year, major ethnic group and sex, Malaysia

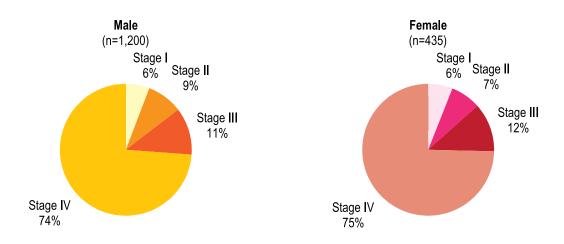
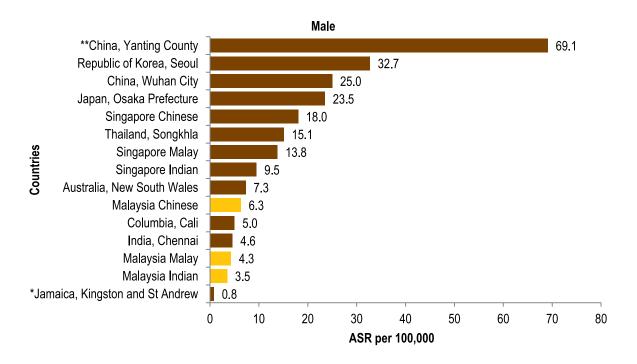


Figure 61. Liver: Staging percentage by sex, Malaysia, 2012-2016



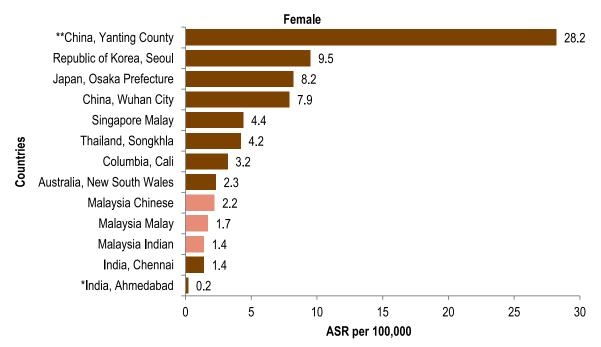


Figure 62. Liver: International comparisons - Age-standardised rates

5.9 Cervix Uteri (ICD-10: C53)

A total of 3,981 cases of cervix uteri cancer were diagnosed for the period of 2012-2016 compared with 4,352 cases in 2007-2011 report. Cancer of the cervix uteri was the third most common cancer in females and ranked ninth in Malaysia compared to seventh in previous report. The incidence rate has decreased from 7.6 to 6.2 per 100,000 populations over the five years. The lifetime risk was 1 in 144. Chinese had higher incidence rate followed by Indians and Malays. The lifetime risk for Chinese was 1 in 129, Indians 1 in 157 and Malays 1 in 194. The trend for age-specific incidence rate were similar in both reports with the highest incidence was at the age 50-65 years.

Staging was reported for 2,771 cases (70%). Of these 41% were detected at late stage (III & IV) which was slightly higher compared to previous report (40.3%). 59% were detected at stage I and II. International comparisons are shown in Figure 66.

Table 33. Cervix Uteri: Cancer incidence summary by year, Malaysia

| All residents | No. | CR | ASR | CumR |
|---------------|-------|-----|-----|------|
| 2007-2011 | 4,325 | 6.8 | 7.6 | 0.9 |
| 2012-2016 | 3,981 | 6.0 | 6.2 | 0.7 |
| 2012 | 811 | 6.1 | 6.3 | 0.7 |
| 2013 | 746 | 5.5 | 5.7 | 0.6 |
| 2014 | 870 | 6.5 | 6.6 | 0.7 |
| 2015 | 797 | 5.8 | 5.9 | 0.7 |
| 2016 | 757 | 5.5 | 5.6 | 0.6 |

Table 34. Cervix Uteri: Incidence summary by year and ethnicity, Malaysia

| | <u>Malay</u> | | | | Chinese | | | | Indian | | | |
|----------------------------------|----------------|------------|------------|------------|----------------|----|------------|------------|------------|------------|------------|------------|
| | No. | CR | ASR | CumR | No. | CR | ASR | CumR | No. | CR | ASR | CumR |
| Female 2007-2011 2012-2016 | 1,502 1,531 | 4.3 4.1 | 5.1 4.6 | 0.6 0.5 | 1,732 1,316 | | 9.8 6.8 | 1.2 0.8 | 327 273 | 6.9 5.6 | 7.6 5.5 | 0.9 0.6 |

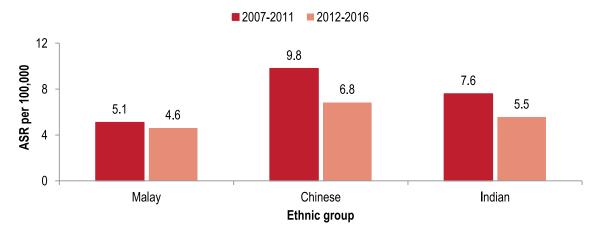


Figure 63. Cervix Uteri: Comparison of age-standardised incidence rate by year and major ethnic group, Malaysia

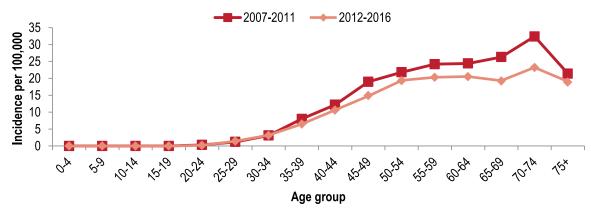


Figure 64. Cervix Uteri: Comparison of age-specific incidence rate by year, Malaysia

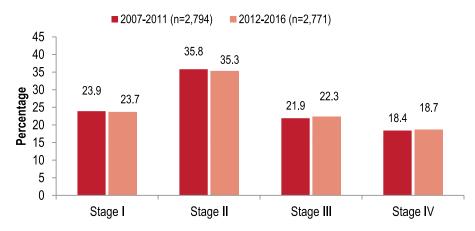


Figure 65. Cervix Uteri: Comparison of staging percentage by year, Malaysia

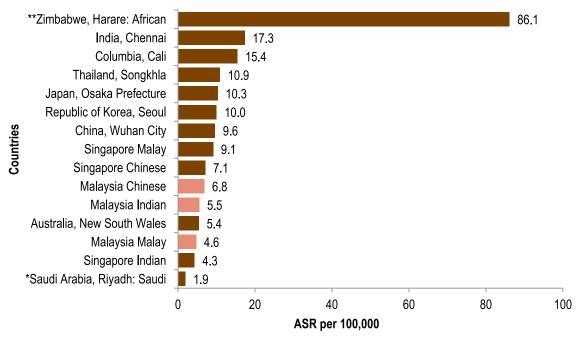


Figure 66. Cervix Uteri: International comparisons – Age-standardised rates

5.10 Ovary (ICD-10: C56)

A total of 3,575 cases of ovarian cancer were registered for the period of 2012-2016 compared with 3,472 cases in 2007-2011 report. Cancer of ovary ranked tenth in Malaysia and fourth in females. The trend for age-specific incidence rate were similar in both reports with the highest incidence was at the age of 65-69. The lifetime risk was 1 in 167. It was 1 in 160 for Malays, 1 in 164 for Indians and 1 in 169 for Chinese.

Staging was reported for 2,507 cases (70%). Of these 56.3% were detected at late stage (III & IV) which was similar as compared to previous report (56%). International comparisons are shown in Figure 70.

Table 35. Ovary: Cancer incidence summary by year, Malaysia

| All residents | No. | CR | ASR | CumR |
|--------------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------|
| 2007-2011 2012-2016 | 3,472 3,575 | 5.4 5.4 | 5.9 5.6 | 0.6 0.6 |
| 2012 2013 2014 2015 2016 | 687 668 696 748 776 | 5.2 5.0 5.2 5.5 5.7 | 5.4 5.0 5.2 5.5 5.7 | 0.6 0.5 0.6 0.6 |

Table 36. Ovary: Incidence summary by year and ethnicity, Malaysia

| | | Malay | | | | Chinese | | | | Indian | | | |
|----------------------------------|----------------|------------|------------|------------|----------------|------------|------------|------------|------------|------------|------------|------------|--|
| | No. | CR | ASR | CumR | No. | CR | ASR | CumR | No. | CR | ASR | CumR | |
| Female 2007-2011 2012-2016 | 1,754 1,984 | 5.0 5.3 | 5.8 5.9 | 0.6 0.6 | 1,107 1,006 | 7.2 6.4 | 6.3 5.4 | 0.7 0.6 | 277 272 | 5.8 5.6 | 6.1 5.4 | 0.7 0.6 | |

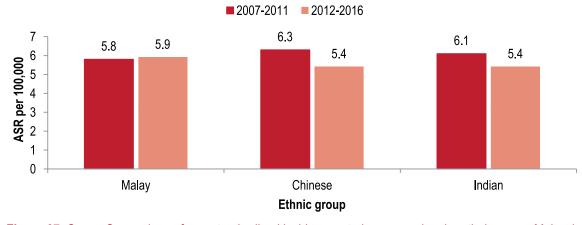


Figure 67. Ovary: Comparison of age-standardised incidence rate by year and major ethnic group, Malaysia

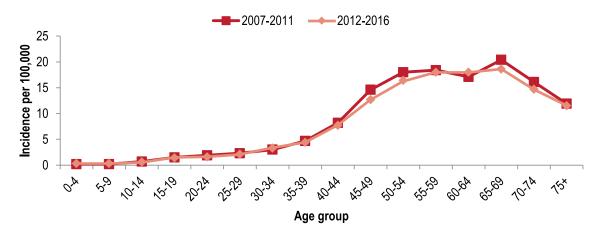


Figure 68. Ovary: Comparison of age-specific incidence rate by year, Malaysia

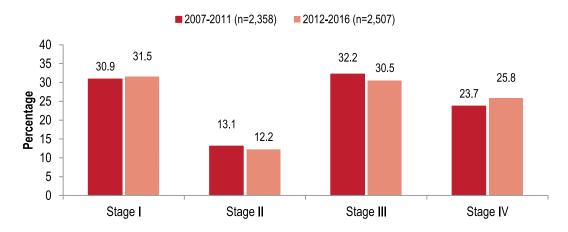


Figure 69. Ovary: Comparison of staging percentage by year, Malaysia

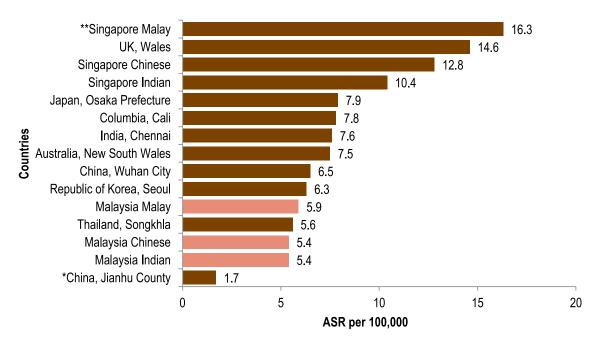
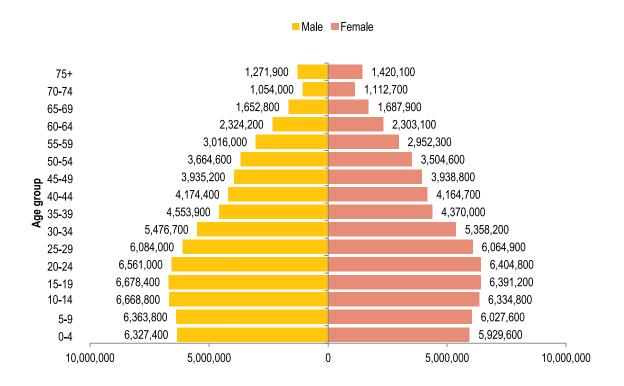


Figure 70. Ovary: International comparisons – Age-standardised rates

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Appendix 1: Person-years at risk, all Malaysian, 2012-2016



| Age Group | MALAYSIAN | N POPULATION | WORLD STANDARD POPULATION |
|------------|------------|--------------|---------------------------|
| rige Group | Male | Female | |
| 0-4 | 6,327,400 | 5,929,600 | 12,000 |
| 5-9 | 6,363,800 | 6,027,600 | 10,000 |
| 10-14 | 6,668,800 | 6,334,800 | 9,000 |
| 15-19 | 6,678,400 | 6,391,200 | 9,000 |
| 20-24 | 6,561,000 | 6,404,800 | 8,000 |
| 25-29 | 6,084,000 | 6,064,900 | 8,000 |
| 30-34 | 5,476,700 | 5,358,200 | 6,000 |
| 35-39 | 4,553,900 | 4,370,000 | 6,000 |
| 40-44 | 4,174,400 | 4,164,700 | 6,000 |
| 45-49 | 3,935,200 | 3,938,800 | 6,000 |
| 50-54 | 3,664,600 | 3,504,600 | 5,000 |
| 55-59 | 3,016,000 | 2,952,300 | 4,000 |
| 60-64 | 2,324,200 | 2,303,100 | 4,000 |
| 65-69 | 1,652,800 | 1,687,900 | 3,000 |
| 70-74 | 1,054,000 | 1,112,700 | 2,000 |
| 75+ | 1,271,900 | 1,420,100 | 2,000 |
| TOTAL | 69,847,800 | 68,053,000 | 100,000 |

Source: Department of Statistics Malaysia, 2012-2016

Appendix 2: Population table by sex, ethnicity and age group, Malaysian residents, 2012-2016

| Age | | | ETHNIC GROUPS | 3 | |
|---------------------|------------|------------|---------------|------------|-------------|
| Group | Malay | Chinese | Indian | Others | Total |
| Male | | | | | |
| 0-4 | 4,115,600 | 1,024,600 | 344,400 | 842,800 | 6,327,400 |
| 5-9 | 3,896,400 | 1,163,900 | 394,800 | 908,700 | 6,363,800 |
| 10-14 | 3,996,000 | 1,299,700 | 437,100 | 936,000 | 6,668,800 |
| 15-19 | 3,931,700 | 1,368,700 | 446,400 | 931,600 | 6,678,400 |
| 20-24 | 3,842,500 | 1,393,800 | 456,800 | 867,900 | 6,561,000 |
| 25-29 | 3,556,500 | 1,349,000 | 461,600 | 716,900 | 6,084,000 |
| 30-34 | 3,109,800 | 1,319,300 | 421,600 | 626,000 | 5,476,700 |
| 35-39 | 2,456,800 | 1,238,100 | 360,500 | 498,500 | 4,553,900 |
| 40-44 | 2,180,900 | 1,192,000 | 321,100 | 480,400 | 4,174,400 |
| 45-49 | 2,014,100 | 1,161,400 | 309,700 | 450,000 | 3,935,200 |
| 50-54 | 1,852,000 | 1,116,200 | 294,700 | 401,700 | 3,664,600 |
| | | | | 316,400 | 3,016,000 |
| 55-59 | 1,506,000 | 960,400 | 233,200 | | 2,324,200 |
| 60-64 | 1,146,300 | 793,100 | 171,300 | 213,500 | |
| 65-69 | 789,900 | 609,200 | 109,200 | 144,500 | 1,652,800 |
| 70-74 | 473,700 | 416,600 | 60,400 | 103,300 | 1,054,000 |
| 75+ | 580,600 | 481,700 | 76,900 | 132,700 | 1,271,900 |
| Total | 39,448,800 | 16,880,500 | 4,921,800 | 8,596,700 | 69,847,800 |
| Female | 0.057.000 | 040 500 | 204.000 | 900 000 | E 020 600 |
| 0-4 | 3,857,600 | 946,500 | 324,900 | 800,600 | 5,929,600 |
| 5-9 | 3,684,600 | 1,088,300 | 380,800 | 873,900 | 6,027,600 |
| 10-14 | 3,795,600 | 1,227,100 | 418,600 | 893,500 | 6,334,800 |
| 15-19 | 3,759,700 | 1,293,900 | 434,500 | 903,100 | 6,391,200 |
| 20-24 | 3,760,000 | 1,332,700 | 446,500 | 865,600 | 6,404,800 |
| 25-29 | 3,531,500 | 1,335,300 | 443,900 | 754,200 | 6,064,900 |
| 30-34 | 3,050,300 | 1,257,700 | 412,000 | 638,200 | 5,358,200 |
| 35-39 | 2,387,100 | 1,134,000 | 347,000 | 501,900 | 4,370,000 |
| 40-44 | 2,221,500 | 1,130,600 | 329,900 | 482,700 | 4,164,700 |
| 45-49 | 2,080,200 | 1,104,300 | 321,900 | 432,400 | 3,938,800 |
| 50-54 | 1,842,800 | 995,500 | 297,200 | 369,100 | 3,504,600 |
| 55-59 | 1,548,300 | 875,200 | 248,300 | 280,500 | 2,952,300 |
| 60-64 | 1,187,800 | 735,600 | 187,400 | 192,300 | 2,303,100 |
| 65-69 | 847,500 | 570,800 | 126,700 | 142,900 | 1,687,900 |
| 70-74 | 542,800 | 391,800 | 71,600 | 106,500 | 1,112,700 |
| | 703,200 | 478,900 | 93,800 | 144,200 | 1,420,100 |
| 75+ Total | 38,800,500 | 15,928,500 | 4,917,200 | 8,406,800 | 68,053,000 |
| Both sexes | | | | | |
| 0-4 | 7,973,200 | 1,971,100 | 669,300 | 1,643,400 | 12,257,000 |
| 5-9 | 7,581,000 | 2,252,200 | 775,600 | 1,782,600 | 12,391,400 |
| 10-14 | 7,791,600 | 2,526,800 | 855,700 | 1,829,500 | 13,003,600 |
| 15-14 | 7,691,400 | 2,662,600 | 880,900 | 1,834,700 | 13,069,600 |
| 20-24 | 7,602,500 | 2,726,500 | 903,300 | 1,733,500 | 12,965,800 |
| | 7,088,000 | 2,684,300 | 905,500 | 1,471,100 | 12,148,900 |
| 25-29 | 6,160,100 | 2,577,000 | 833,600 | 1,264,200 | 10,834,900 |
| 30-34 | 4,843,900 | 2,372,100 | 707,500 | 1,000,400 | 8,923,900 |
| 35-39 | | 2,322,600 | 651,000 | 963,100 | 8,339,100 |
| 40-44 | 4,402,400 | 2,322,000 | 631,600 | 882,400 | 7,874,000 |
| 45-49 | 4,094,300 | | • | | |
| 50-54 | 3,694,800 | 2,111,700 | 591,900 | 770,800 | 7,169,200 |
| 55-59 | 3,054,300 | 1,835,600 | 481,500 | 596,900 | 5,968,300 |
| 60-64 | 2,334,100 | 1,528,700 | 358,700 | 405,800 | 4,627,300 |
| 65-69 | 1,637,400 | 1,180,000 | 235,900 | 287,400 | 3,340,700 |
| 70-74 | 1,016,500 | 808,400 | 132,000 | 209,800 | 2,166,700 |
| 75+ | 1,283,800 | 960,600 | 170,700 | 276,900 | 2,692,000 |
| Total | 78,249,300 | 32,809,000 | 9,839,000 | 17,003,500 | 137,900,800 |

Appendix 3: Population table by sex, state and age group, Malaysian residents, 2012-2016

| Age | | | STATE | | |
|------------|---------|-----------|-----------|-----------|------------|
| Group | Perlis | Kedah | Penang | Perak | Selangor |
| Male | | | | | |
| 0-4 | 53,600 | 458,800 | 283,300 | 448,600 | 2,067,900 |
| 5-9 | 51,800 | 441,600 | 295,800 | 478,600 | 1,926,100 |
| 10-14 | 51,400 | 496,200 | 310,500 | 566,000 | 1,879,300 |
| 15-19 | 59,600 | 546,800 | 333,300 | 593,900 | 1,742,100 |
| 20-24 | 72,200 | 463,700 | 334,200 | 572,800 | 1,857,400 |
| 25-29 | 53,900 | 368,600 | 316,700 | 475,100 | 2,283,500 |
| 30-34 | 37,600 | 318,600 | 316,200 | 351,100 | 2,227,700 |
| 35-39 | 28,500 | 292,400 | 280,200 | 327,100 | 1,781,500 |
| 40-44 | | | 270,400 | 325,500 | 1,535,700 |
| | 26,900 | 283,800 | | | |
| 45-49 | 31,700 | 280,800 | 249,900 | 341,200 | 1,316,400 |
| 50-54 | 31,800 | 268,000 | 226,100 | 346,900 | 1,140,100 |
| 55-59 | 27,800 | 229,400 | 194,900 | 316,000 | 880,900 |
| 60-64 | 23,500 | 182,800 | 158,600 | 263,500 | 645,000 |
| 65-69 | 17,800 | 130,100 | 120,400 | 202,900 | 447,200 |
| 70-74 | 11,900 | 81,600 | 74,500 | 135,200 | 246,700 |
| 75+ | 15,000 | 105,700 | 75,600 | 174,200 | 281,700 |
| Total | 595,000 | 4,948,900 | 3,840,600 | 5,918,600 | 22,259,200 |
| Female | | | | | |
| 0-4 | 49,600 | 434,400 | 263,300 | 430,800 | 3,877,600 |
| 5-9 | 47,300 | 420,400 | 276,300 | 467,700 | 3,613,000 |
| 10-14 | 49,300 | 465,600 | 301,100 | 560,400 | 3,524,400 |
| 15-19 | 59,800 | 504,300 | 320,000 | 597,100 | 3,267,300 |
| 20-24 | 68,000 | 442,700 | 336,800 | 554,500 | 3,480,800 |
| 25-29 | 43,100 | 368,400 | 335,800 | 428,900 | 4,279,000 |
| 30-34 | 35,900 | 319,600 | 318,100 | 345,800 | 4,177,300 |
| | 28,700 | 292,900 | 275,600 | 323,000 | 3,346,000 |
| 35-39 | 32,600 | 301,500 | 269,600 | 334,400 | 2,881,300 |
| 40-44 | | 295,900 | | 359,100 | 2,469,800 |
| 45-49 | 32,800 | | 255,900 | | 2,139,000 |
| 50-54 | 32,200 | 275,800 | 224,300 | 345,400 | |
| 55-59 | 29,500 | 245,300 | 199,900 | 315,600 | 1,654,000 |
| 60-64 | 24,500 | 194,700 | 165,400 | 272,000 | 1,211,000 |
| 65-69 | 18,300 | 138,100 | 126,300 | 215,800 | 839,800 |
| 70-74 | 12,600 | 97,500 | 83,400 | 144,700 | 464,100 |
| 75+ | 17,000 | 123,800 | 107,700 | 158,700 | 528,700 |
| Total | 581,200 | 4,920,900 | 3,859,500 | 5,853,900 | 41,753,100 |
| Both sexes | | 000 000 | 540.000 | 070.400 | E 0.4E E00 |
| 0-4 | 103,200 | 893,200 | 546,600 | 879,400 | 5,945,500 |
| 5-9 | 99,100 | 862,000 | 572,100 | 946,300 | 5,539,100 |
| 10-14 | 100,700 | 961,800 | 611,600 | 1,126,400 | 5,403,700 |
| 15-19 | 119,400 | 1,051,100 | 653,300 | 1,191,000 | 5,009,400 |
| 20-24 | 140,200 | 906,400 | 671,000 | 1,127,300 | 5,338,200 |
| 25-29 | 97,000 | 737,000 | 652,500 | 904,000 | 6,562,500 |
| 30-34 | 73,500 | 638,200 | 634,300 | 696,900 | 6,405,000 |
| 35-39 | 57,200 | 585,300 | 555,800 | 650,100 | 5,127,500 |
| | 59,500 | 585,300 | 540,000 | 659,900 | 4,417,000 |
| 40-44 | 64,500 | 576,700 | 505,800 | 700,300 | 3,786,200 |
| 45-49 | | 543,800 | | 692,300 | 3,279,100 |
| 50-54 | 64,000 | | 450,400 | | |
| 55-59 | 57,300 | 474,700 | 394,800 | 631,600 | 2,534,900 |
| 60-64 | 48,000 | 377,500 | 324,000 | 535,500 | 1,856,000 |
| 65-69 | 36,100 | 268,200 | 246,700 | 418,700 | 1,287,000 |
| 70-74 | 24,500 | 179,100 | 157,900 | 279,900 | 710,800 |
| | 32,000 | 229,500 | 183,300 | 332,900 | 810,400 |
| 75+ | | | | | 64,012,300 |

Appendix 3: Population table by sex, state and age group, Malaysian residents, 2012-2016 (continue)

| Age | | | | | |
|------------|-------------|-------------|--------------------|------------|-----------|
| Group | W.P. KL & P | N. Sembilan | Melaka | Johor | Pahang |
| Male | | | | | |
| 0-4 | 329,000 | 213,700 | 174,900 | 727,900 | 353,700 |
| 5-9 | 330,900 | 222,900 | 174,200 | 728,500 | 377,900 |
| 10-14 | 321,000 | 251,800 | 186,900 | 785,000 | 386,500 |
| 15-19 | 296,300 | 249,600 | 206,300 | 774,500 | 402,200 |
| 20-24 | 371,700 | 252,500 | 218,900 | 714,100 | 387,000 |
| 25-29 | 407,100 | 218,400 | 176,700 | 711,600 | 325,200 |
| 30-34 | 422,000 | 171,300 | 146,700 | 673,900 | 304,600 |
| 35-39 | 347,600 | 149,500 | 119,900 | 574,800 | 225,600 |
| 40-44 | 271,800 | 140,800 | 112,900 | 525,700 | 198,200 |
| 45-49 | 244,400 | | 113,500 | 486,700 | 193,200 |
| 50-54 | | 136,900 | 114,100 | 448,800 | 184,500 |
| | 248,400 | 136,700 | 94,200 | 365,600 | 161,300 |
| 55-59 | 192,500 | 125,700 | | | |
| 60-64 | 141,500 | 101,600 | 75,200 | 283,900 | 131,400 |
| 65-69 | 100,700 | 67,000 | 56,800 | 207,900 | 99,800 |
| 70-74 | 62,100 | 42,500 | 37,700 | 133,300 | 60,800 |
| 75+ | 72,600 | 53,800 | 46,900 | 170,200 | 71,200 |
| Total | 4,159,600 | 2,534,700 | 2,055,800 | 8,312,400 | 3,863,100 |
| Female | 200 000 | 205 900 | 100 100 | 622 400 | 224 500 |
| 0-4 | 308,800 | 205,800 | 166,100 | 633,400 | 331,500 |
| 5-9 | 306,200 | 209,500 | 170,700 | 630,100 | 340,100 |
| 10-14 | 305,500 | 225,800 | 174,000 | 681,200 | 350,000 |
| 15-19 | 295,500 | 228,600 | 196,000 | 663,000 | 363,800 |
| 20-24 | 370,300 | 230,700 | 222,900 | 620,800 | 344,600 |
| 25-29 | 440,800 | 207,700 | 180,200 | 615,000 | 291,100 |
| 30-34 | 439,200 | 168,800 | 153,000 | 585,800 | 272,800 |
| 35-39 | 321,800 | 150,900 | 119,300 | 482,300 | 201,200 |
| 40-44 | 277,100 | 145,600 | 120,200 | 459,300 | 198,300 |
| 45-49 | 281,700 | 148,400 | 130,100 | 432,600 | 192,700 |
| 50-54 | 217,500 | 145,700 | 114,600 | 378,700 | 190,000 |
| 55-59 | 179,800 | 132,300 | 99,300 | 327,600 | 162,500 |
| 60-64 | 137,800 | 100,400 | 80,800 | 253,400 | 127,300 |
| 65-69 | 99,200 | 69,100 | 64,500 | 183,000 | 96,900 |
| 70-74 | 63,700 | 46,400 | 40,300 | 120,000 | 57,100 |
| 75+ | 71,300 | 64,200 | 47,300 | 167,700 | 76,800 |
| Total | 4,116,200 | 2,479,900 | 2,079,300 | 7,233,900 | 3,596,700 |
| | | | | | |
| Both sexes | 637,800 | 419,500 | 341,000 | 1,361,300 | 685,200 |
| 0-4 | 637,100 | 432,400 | 344,900 | 1,358,600 | 718,000 |
| 5-9 | 626,500 | 477,600 | 360,900 | 1,466,200 | 736,500 |
| 10-14 | 591,800 | 477,000 | 402,300 | 1,437,500 | 766,000 |
| 15-19 | | 483,200 | 402,300 441,800 | 1,334,900 | 731,600 |
| 20-24 | 742,000 | | | | • |
| 25-29 | 847,900 | 426,100 | 356,900 | 1,326,600 | 616,300 |
| 30-34 | 861,200 | 340,100 | 299,700 | 1,259,700 | 577,400 |
| 35-39 | 669,400 | 300,400 | 239,200 | 1,057,100 | 426,800 |
| 40-44 | 548,900 | 286,400 | 233,100 | 985,000 | 396,500 |
| 45-49 | 526,100 | 285,300 | 243,600 | 919,300 | 385,900 |
| 50-54 | 465,900 | 282,400 | 228,700 | 827,500 | 374,500 |
| 55-59 | 372,300 | 258,000 | 193,500 | 693,200 | 323,800 |
| 60-64 | 279,300 | 202,000 | 156,000 | 537,300 | 258,700 |
| 65-69 | 199,900 | 136,100 | 121,300 | 390,900 | 196,700 |
| 70-74 | 125,800 | 88,900 | 78,000 | 253,300 | 117,900 |
| 75+ | 143,900 | 118,000 | 94,200 | 337,900 | 148,000 |
| Total | 8,275,800 | 5,014,600 | 4,135,100 | 15,546,300 | 7,459,800 |

Appendix 3: Population table by sex, state and age group, Malaysian residents, 2012-2016 (continue)

| Age | | | STATE | | |
|------------|------------|-----------|------------|------------|-------------|
| Group | Terengganu | Kelantan | Sabah | Sarawak | W.P. Labuan |
| Male | | | | | |
| 0-4 | 449,700 | 473,900 | 664,400 | 531,800 | 20,800 |
| 5-9 | 406,400 | 448,600 | 712,200 | 584,400 | 22,200 |
| 10-14 | 422,700 | 475,200 | 717,700 | 633,700 | 20,000 |
| 15-19 | 423,400 | 500,300 | 691,900 | 625,400 | 17,500 |
| 20-24 | 419,500 | 457,700 | 663,800 | 596,500 | 18,000 |
| 25-29 | 348,700 | 298,300 | 571,500 | 497,700 | 22,400 |
| 30-34 | 265,800 | 251,100 | 522,400 | 434,200 | 24,700 |
| 35-39 | 209,400 | 204,900 | 389,600 | 387,700 | 14,200 |
| 40-44 | 190,000 | 190,700 | 349,100 | 400,600 | 11,800 |
| 45-49 | 185,800 | 196,100 | 325,900 | 389,500 | 10,000 |
| 50-54 | | | 298,100 | 353,900 | 10,000 |
| 55-59 | 182,300 | 191,200 | | 294,000 | 7,900 |
| | 152,300 | 161,800 | 236,500 | | |
| 60-64 | 114,600 | 128,500 | 153,500 | 223,100 | 5,000 |
| 65-69 | 82,500 | 98,000 | 95,500 | 162,800 | 2,800 |
| 70-74 | 51,700 | 57,800 | 69,300 | 110,400 | 2,400 |
| 75+ | 58,900 | 71,500 | 81,400 | 138,400 | 1,000 |
| Total | 3,963,700 | 4,205,600 | 6,542,800 | 6,364,100 | 210,700 |
| Female | 004.500 | 451,000 | 625 500 | E00 100 | 19,400 |
| 0-4 | 834,500 | 451,000 | 625,500 | 500,100 | |
| 5-9 | 755,100 | 410,700 | 679,400 | 575,800 | 20,400 |
| 10-14 | 784,800 | 444,700 | 682,900 | 616,600 | 19,400 |
| 15-19 | 786,700 | 474,600 | 672,100 | 602,200 | 18,900 |
| 20-24 | 778,100 | 421,300 | 663,000 | 586,300 | 20,000 |
| 25-29 | 646,400 | 271,000 | 604,500 | 513,700 | 22,400 |
| 30-34 | 493,100 | 227,300 | 533,600 | 428,700 | 23,300 |
| 35-39 | 388,400 | 212,700 | 392,700 | 380,700 | 13,600 |
| 40-44 | 352,800 | 223,600 | 351,300 | 384,900 | 12,400 |
| 45-49 | 345,100 | 225,800 | 312,000 | 356,100 | 10,500 |
| 50-54 | 338,400 | 215,900 | 267,800 | 314,700 | 8,800 |
| 55-59 | 282,400 | 182,400 | 206,200 | 258,400 | 6,500 |
| | 212,600 | 138,500 | 135,300 | 205,600 | 4,400 |
| 60-64 | 152,900 | 106,400 | 93,000 | 151,900 | 2,600 |
| 65-69 | | 73,000 | | 109,400 | 2,200 |
| 70-74 | 96,000 | | 68,000 | | |
| 75+ | 109,200 | 95,800 | 83,700 | 153,800 | 1,100 |
| Total | 7,356,500 | 4,174,700 | 6,371,000 | 6,138,900 | 205,900 |
| Both sexes | 1,284,200 | 924,900 | 1,289,900 | 1,031,900 | 40,200 |
| 0-4 | 1,161,500 | 859,300 | 1,391,600 | 1,160,200 | 42,600 |
| 5-9 | | 919,900 | 1,400,600 | 1,250,300 | 39,400 |
| 10-14 | 1,207,500 | | | | |
| 15-19 | 1,210,100 | 974,900 | 1,364,000 | 1,227,600 | 36,400 |
| 20-24 | 1,197,600 | 879,000 | 1,326,800 | 1,182,800 | 38,000 |
| 25-29 | 995,100 | 569,300 | 1,176,000 | 1,011,400 | 44,800 |
| 30-34 | 758,900 | 478,400 | 1,056,000 | 862,900 | 48,000 |
| 35-39 | 597,800 | 417,600 | 782,300 | 768,400 | 27,800 |
| 40-44 | 542,800 | 414,300 | 700,400 | 785,500 | 24,200 |
| 45-49 | 530,900 | 421,900 | 637,900 | 745,600 | 20,500 |
| 50-54 | 520,700 | 407,100 | 565,900 | 668,600 | 18,800 |
| 55-59 | 434,700 | 344,200 | 442,700 | 552,400 | 14,400 |
| 60-64 | 327,200 | 267,000 | 288,800 | 428,700 | 9,400 |
| | 235,400 | 204,400 | 188,500 | 314,700 | 5,400 |
| 65-69 | 147,700 | 130,800 | 137,300 | 219,800 | 4,600 |
| 70-74 | | 167,300 | 165,100 | 292,200 | 2,100 |
| 75+ | 168,100 | | | | |
| Total | 11,320,200 | 8,380,300 | 12,913,800 | 12,503,000 | 416,600 |

Appendix 4: Incidence summary table, all residents, males, Malaysia, 2012-2016

| ICD-10 | SITE | No. | % | CR | CR74 | ASR | (95%CL) | CumR |
|-------------|-----------------------------------|------------------|------------|-------------|------------|-------------|------------------------|------------|
| C18-C21 | Colorectal | 8,701 | 16.9 | 12.7 | 1.8 | 14.8 | (14.4,15.1) | 1.8 |
| C33-C34 | Trachea, Bronchus, Lung | 7,686 | 14.9 | 11.3 | 1.7 | 13.2 | (12.9,13.5) | 1.7 |
| C61 | Prostate | 4,189 | 8.1 | 6.1 | 1.1 | 7.7 | (7.5,7.9) | 1.1 |
| C81-C85;C96 | Lymphoma | 3,412 | 6.6 | 5.0 | 0.6 | 5.3 | (5.2,5.5) | 0.6 |
| C11 | Nasopharynx | 3,359 | 6.5 | 4.9 | 0.6 | 5.2 | (5.0,5.4) | 0.6 |
| C22 | Liver | 2,949 | 5.7 | 4.3 3.5 | 0.6 0.3 | 4.9 3.8 | (4.7,5.1) | 0.6 |
| C91-C95 | Leukaemia Stomach | 2,414 1,818 | 4.7 3.5 | 3.5 2.7 | 0.3 | 3.8 3.1 | (3.6,3.9) | 0.3 0.4 |
| C16 | Other Skin | 1,010 | 3.5 | 2.7 | 0.4 | 3.1 | (3.0,3.3) (3.0,3.3) | 0.4 |
| C44 C67 | Bladder | 1,737 | 3.3 | 2.5 | 0.4 | 3.0 | (2.8,3.1) | 0.4 |
| Others | Other & Unspecified | 1,715 | 2.7 | 2.0 | 0.4 | 2.3 | (2.2,2.4) | 0.4 |
| C64 | Kidney | 1,333 | 2.5 | 1.9 | 0.3 | 2.1 | (2.0,2.3) | 0.3 |
| C04 C25 | Pancreas | 1,167 | 2.3 | 1.7 | 0.3 | 2.0 | (1.9,2.1) | 0.3 |
| C70-C72 | Brain, Nervous System | 1,117 | 2.2 | 1.6 | 0.2 | 1.7 | (1.6,1.8) | 0.2 |
| C15 | Oesophagus | 788 | 1.5 | 1.2 | 0.2 | 1.4 | (1.3,1.4) | 0.2 |
| C32 | Larynx | 780 | 1.5 | 1.1 | 0.2 | 1.3 | (1.3,1.4) | 0.2 |
| C73 | Thyroid | 749 | 1.5 | 1.1 | 0.1 | 1.2 | (1.1,1.3) | 0.1 |
| C62 | Testis | 636 | 1.2 | 0.9 | 0.1 | 0.9 | (0.8,1.0) | 0.1 |
| C47; C49 | Connective, Soft Tissue | 597 | 1.2 | 0.9 | 0.1 | 0.9 | (0.9,1.0) | 0.1 |
| C01-C02 | Tongue | 560 | 1.1 | 0.8 | 0.1 | 0.9 | (0.8,1.0) | 0.1 |
| C40-C41 | Bone | 523 | 1.0 | 0.8 | 0.1 | 0.8 | (0.7,0.8) | 0.1 |
| C23-C24 | Gallbladder Etc. | 491 | 1.0 | 0.7 | 0.1 | 0.8 | (0.8,0.9) | 0.1 |
| C90 | Multiple Myeloma | 429 | 8.0 | 0.6 | 0.1 | 0.7 | (0.6, 0.8) | 0.1 |
| C03-C06 | Mouth | 400 | 8.0 | 0.6 | 0.1 | 0.7 | (0.6,0.7) | 0.1 |
| C07-C08 | Salivary Glands | 293 | 0.6 | 0.4 | 0.1 | 0.5 | (0.4, 0.5) | 0.1 |
| C50 | Breast | 291 | 0.6 | 0.4 | 0.1 | 0.5 | (0.4, 0.5) | 0.1 |
| C30-C31 | Nose, Sinuses Etc. | 276 | 0.5 | 0.4 | 0.1 | 0.4 | (0.4, 0.5) | 0.1 |
| C37-C38 | Other Thoracic Organs | 246 | 0.5 | 0.4 | 0.0 | 0.4 | (0.3,0.4) | 0.0 |
| C43 | Melanoma Of Skin | 184 | 0.4 | 0.3 | 0.0 | 0.3 | (0.3,0.4) | 0.0 |
| C17 | Small Intestine | 174 | 0.3 | 0.3 | 0.0 | 0.3 | (0.2,0.3) | 0.0 |
| C09 | Tonsil | 144 | 0.3 | 0.2 | 0.0 | 0.2 | (0.2,0.3) | 0.0 |
| C12-C13 | Hypopharynx | 132 | 0.3 | 0.2 | 0.0 | 0.2 | (0.2,0.3) | 0.0 |
| C60 | Penis | 116 | 0.2 | 0.2 | 0.0 | 0.2 | (0.2,0.2) | 0.0 |
| C10 | Other Oropharynx | 99 | 0.2 | 0.1 | 0.0 | 0.2 | (0.1,0.2) | 0.0 |
| C75 | Other Endocrine | 98 | 0.2 | 0.1 | 0.0 | 0.1 | (0.1,0.2) | 0.0 |
| C69 | Eye | 89 | 0.2 | 0.1 | 0.0 | 0.2 | (0.1,0.2) | 0.0 |
| C88 | Immunoproliferative Dis. | 79 | 0.2 | 0.1 | 0.0 | 0.1 | (0.1,0.2) | 0.0 |
| C74 | Adrenal Gland | 67 45 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.1) | 0.0 |
| C63 | Other Male Genital | | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.1) | 0.0 |
| C66 | Ureter | 44 40 | 0.1 0.1 | 0.1 0.1 | 0.0 | 0.1 | (0.1,0.1) | 0.0 |
| C14 | Pharynx Unspec. Kaposi Sarcoma | 40 37 | 0.1 | 0.1 | 0.0 0.0 | 0.1 0.1 | (0.0,0.1) (0.0,0.1) | 0.0 0.0 |
| C46 | Mesothelioma | 3 <i>1</i> 35 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C45 | Lip | 27 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C00 C65 | Renal Pelvis | 24 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.1) | 0.0 |
| C68 | Other Urinary Organs | 17 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.1) | 0.0 |
| All | All sites total | 51,505 | 100.0 | 75.4 | 10.3 | 86.1 | (85.3,86.8) | 9.7 |
| ΔII | , ontoo total | 31,000 | 10010 | 1017 | 10.0 | 00.1 | (00.0,00.0) | 0.7 |

Appendix 5: Incidence summary table, all residents, females, Malaysia, 2012-2016

| ICD-10 | SITE | No. | % | CR | CR74 | ASR | (95%CL) | CumR |
|-------------|--------------------------|--------|-------|------|------|-------|---------------|------|
| C50 | Breast | 21,634 | 33.9 | 32.5 | 3.8 | 34.1 | (33.6,34.5) | 3.7 |
| C18-C21 | Colorectal | 6,814 | 10.7 | 10.2 | 1.3 | 11.1 | (10.9, 11.4) | 1.3 |
| C53 | Cervix Uteri | 3,981 | 6.2 | 6.0 | 0.7 | 6.2 | (6.1,6.4) | 0.7 |
| C56 | Ovary | 3,575 | 5.6 | 5.4 | 0.6 | 5.6 | (5.4,5.7) | 0.6 |
| C33-C34 | Trachea, Bronchus, Lung | 3,570 | 5.6 | 5.4 | 0.7 | 5.9 | (5.7,6.1) | 0.7 |
| C54 | Corpus Uteri | 2,898 | 4.5 | 4.4 | 0.5 | 4.6 | (4.5,4.8) | 0.5 |
| C81-C85;C96 | Lymphoma | 2,418 | 3.8 | 3.6 | 0.4 | 3.8 | (3.6, 3.9) | 0.4 |
| C73 | Thyroid | 2,137 | 3.4 | 3.2 | 0.3 | 3.2 | (3.1,3.4) | 0.3 |
| C91-C95 | Leukaemia | 1,859 | 2.9 | 2.8 | 0.3 | 3.0 | (2.8,3.1) | 0.3 |
| C44 | Other Skin | 1,395 | 2.2 | 2.1 | 0.3 | 2.3 | (2.2,2.4) | 0.3 |
| C11 | Nasopharynx | 1,238 | 1.9 | 1.9 | 0.2 | 1.9 | (1.8,2.0) | 0.2 |
| Others | Other & Unspecified | 1,220 | 1.9 | 1.8 | 0.2 | 2.0 | (1.9,2.1) | 0.2 |
| C16 | Stomach | 1,188 | 1.9 | 1.8 | 0.2 | 1.9 | (1.8,2.0) | 0.2 |
| C22 | Liver | 1,084 | 1.7 | 1.6 | 0.2 | 1.8 | (1.7,1.9) | 0.2 |
| C70-C72 | Brain, Nervous System | 980 | 1.5 | 1.5 | 0.1 | 1.6 | (1.5,1.7) | 0.1 |
| C55 | Uterus Unspec. | 912 | 1.4 | 1.4 | 0.2 | 1.4 | (1.4,1.5) | 0.2 |
| C25 | Pancreas | 882 | 1.4 | 1.3 | 0.2 | 1.5 | (1.4,1.6) | 0.2 |
| C64 | Kidney | 595 | 0.9 | 0.9 | 0.1 | 1.0 | (0.9,1.1) | 0.1 |
| C23-C24 | Gallbladder Etc. | 553 | 0.9 | 8.0 | 0.1 | 0.9 | (0.8,1.0) | 0.1 |
| C01-C02 | Tongue | 472 | 0.7 | 0.7 | 0.1 | 0.8 | (0.7,0.8) | 0.1 |
| C47; C49 | Connective, Soft Tissue | 469 | 0.7 | 0.7 | 0.1 | 0.7 | (0.7,0.8) | 0.1 |
| C03-C06 | Mouth | 464 | 0.7 | 0.7 | 0.1 | 0.8 | (0.7,0.8) | 0.1 |
| C67 | Bladder | 407 | 0.6 | 0.6 | 0.1 | 0.7 | (0.6,0.7) | 0.1 |
| C40-C41 | Bone | 387 | 0.6 | 0.6 | 0.0 | 0.6 | (0.5,0.6) | 0.0 |
| C90 | Multiple Myeloma | 347 | 0.5 | 0.5 | 0.1 | 0.6 | (0.5,0.6) | 0.1 |
| C15 | Oesophagus | 337 | 0.5 | 0.5 | 0.1 | 0.5 | (0.5,0.6) | 0.1 |
| C07-C08 | Salivary Glands | 257 | 0.4 | 0.4 | 0.0 | 0.4 | (0.3,0.4) | 0.0 |
| C43 | Melanoma Of Skin | 163 | 0.3 | 0.2 | 0.0 | 0.3 | (0.2,0.3) | 0.0 |
| C30-C31 | Nose, Sinuses Etc. | 152 | 0.2 | 0.2 | 0.0 | 0.2 | (0.2,0.3) | 0.0 |
| C37-C38 | Other Thoracic Organs | 151 | 0.2 | 0.2 | 0.0 | 0.2 | (0.2,0.3) | 0.0 |
| C17 | Small Intestine | 128 | 0.2 | 0.2 | 0.0 | 0.2 | (0.2,0.2) | 0.0 |
| C51 | Vulva | 127 | 0.2 | 0.2 | 0.0 | 0.2 | (0.2,0.2) | 0.0 |
| C57 | Other Female Genital | 116 | 0.2 | 0.2 | 0.0 | 0.2 | (0.1,0.2) | 0.0 |
| C52 | Vagina | 112 | 0.2 | 0.2 | 0.0 | 0.2 | (0.1,0.2) | 0.0 |
| C32 | Larynx | 107 | 0.2 | 0.2 | 0.0 | 0.2 | (0.1,0.2) | 0.0 |
| C69 | Eye | 95 | 0.1 | 0.1 | 0.0 | 0.2 | (0.1,0.2) | 0.0 |
| C58 | Placenta | 78 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.1) | 0.0 |
| C12-C13 | Hypopharynx | 73 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.1) | 0.0 |
| C09 | Tonsil | 62 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.1) | 0.0 |
| C74 | Adrenal Gland | 53 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.1) | 0.0 |
| C00 | Lip | 52 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.1) | 0.0 |
| C75 | Other Endocrine | 49 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.1) | 0.0 |
| C88 | Immunoproliferative Dis. | 45 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.1) | 0.0 |
| C10 | Other Oropharynx | 30 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.1) | 0.0 |
| C66 | Ureter | 20 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.1) | 0.0 |
| C14 | Pharynx Unspec. | 17 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 |
| C45 | Mesothelioma | 15 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 |
| C65 | Renal Pelvis | 7 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 |
| C68 | Other Urinary Organs | 5 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 |
| C46 | Kaposi Sarcoma | 3 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 |
| All | All sites total | 63,733 | 100.0 | 95.8 | 11.4 | 101.6 | (100.8,102.4) | 10.8 |

Appendix 6: Incidence summary table, Malay males, Malaysia, 2012-2016

| ICD-10 | SITE | No. | % | CR | CR74 | ASR | (95%CL) | CumR |
|-------------|--------------------------|--------|-------|------|------|------|-------------|------|
| C33-C34 | Trachea, Bronchus, Lung | 3,500 | 16.0 | 9.2 | 1.6 | 12.5 | (12.1,12.9) | 1.6 |
| C18-C21 | Colorectal | 3,493 | 16.0 | 9.2 | 1.5 | 12.2 | (11.8,12.6) | 1.5 |
| C81-C85;C96 | Lymphoma | 1,866 | 8.5 | 4.9 | 0.6 | 5.6 | (5.4,5.9) | 0.6 |
| C61 | Prostate | 1,577 | 7.2 | 4.1 | 0.9 | 6.3 | (6.0,6.6) | 0.9 |
| C91-C95 | Leukaemia | 1,352 | 6.2 | 3.6 | 0.3 | 3.9 | (3.7,4.1) | 0.3 |
| C22 | Liver | 1,263 | 5.8 | 3.3 | 0.5 | 4.3 | (4.0,4.5) | 0.5 |
| C67 | Bladder | 886 | 4.1 | 2.3 | 0.4 | 3.3 | (3.0,3.5) | 0.4 |
| C11 | Nasopharynx | 862 | 3.9 | 2.3 | 0.3 | 2.7 | (2.5,2.9) | 0.3 |
| C70-C72 | Brain, Nervous System | 642 | 2.9 | 1.7 | 0.2 | 1.8 | (1.7,2.0) | 0.2 |
| C44 | Other Skin | 623 | 2.9 | 1.6 | 0.3 | 2.2 | (2.0,2.4) | 0.3 |
| Others | Other & Unspecified | 568 | 2.6 | 1.5 | 0.2 | 1.9 | (1.7,2.1) | 0.2 |
| C64 | Kidney | 527 | 2.4 | 1.4 | 0.2 | 1.8 | (1.7,2.0) | 0.2 |
| C16 | Stomach | 454 | 2.1 | 1.2 | 0.2 | 1.6 | (1.4,1.7) | 0.2 |
| C73 | Thyroid | 451 | 2.1 | 1.2 | 0.2 | 1.5 | (1.3,1.6) | 0.2 |
| C25 | Pancreas | 424 | 1.9 | 1.1 | 0.2 | 1.5 | (1.4,1.6) | 0.2 |
| C62 | Testis | 404 | 1.8 | 1.1 | 0.1 | 1.0 | (0.9,1.1) | 0.1 |
| C40-C41 | Bone | 319 | 1.5 | 0.8 | 0.1 | 0.9 | (0.8,1.0) | 0.1 |
| C47; C49 | Connective, Soft Tissue | 300 | 1.4 | 0.8 | 0.1 | 0.9 | (0.8,1.0) | 0.1 |
| C15 | Oesophagus | 294 | 1.3 | 0.8 | 0.1 | 1.1 | (0.9,1.2) | 0.1 |
| C32 | Larynx | 238 | 1.1 | 0.6 | 0.1 | 0.9 | (0.8,1.0) | 0.1 |
| C23-C24 | Gallbladder Etc. | 223 | 1.0 | 0.6 | 0.1 | 0.8 | (0.7,0.9) | 0.1 |
| C90 | Multiple Myeloma | 216 | 1.0 | 0.6 | 0.1 | 0.7 | (0.6,0.8) | 0.1 |
| C01-C02 | Tongue | 200 | 0.9 | 0.5 | 0.1 | 0.6 | (0.5,0.7) | 0.1 |
| C07-C08 | Salivary Glands | 142 | 0.7 | 0.4 | 0.0 | 0.4 | (0.4,0.5) | 0.0 |
| C50 | Breast | 135 | 0.6 | 0.4 | 0.1 | 0.5 | (0.4,0.5) | 0.1 |
| C03-C06 | Mouth | 125 | 0.6 | 0.3 | 0.1 | 0.4 | (0.3,0.5) | 0.1 |
| C37-C38 | Other Thoracic Organs | 124 | 0.6 | 0.3 | 0.0 | 0.4 | (0.3,0.4) | 0.0 |
| C30-C31 | Nose, Sinuses Etc. | 113 | 0.5 | 0.3 | 0.0 | 0.4 | (0.3,0.4) | 0.0 |
| C43 | Melanoma Of Skin | 74 | 0.3 | 0.2 | 0.0 | 0.2 | (0.2,0.3) | 0.0 |
| C17 | Small Intestine | 60 | 0.3 | 0.2 | 0.0 | 0.2 | (0.2,0.3) | 0.0 |
| C69 | Eye | 50 | 0.2 | 0.1 | 0.0 | 0.2 | (0.1,0.2) | 0.0 |
| C75 | Other Endocrine | 46 | 0.2 | 0.1 | 0.0 | 0.1 | (0.1,0.2) | 0.0 |
| C09 | Tonsil | 39 | 0.2 | 0.1 | 0.0 | 0.1 | (0.1,0.2) | 0.0 |
| C88 | Immunoproliferative Dis. | 39 | 0.2 | 0.1 | 0.0 | 0.1 | (0.1,0.2) | 0.0 |
| C74 | Adrenal Gland | 36 | 0.2 | 0.1 | 0.0 | 0.1 | (0.1,0.1) | 0.0 |
| C10 | Other Oropharynx | 31 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.1) | 0.0 |
| C12-C13 | Hypopharynx | 29 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.2) | 0.0 |
| C60 | Penis | 21 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C63 | Other Male Genital | 19 | 0.1 | 0.0 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C46 | Kaposi Sarcoma | 16 | 0.1 | 0.0 | 0.0 | 0.0 | (0.0,0.1) | 0.0 |
| C45 | Mesothelioma | 15 | 0.1 | 0.0 | 0.0 | 0.0 | (0.0,0.1) | 0.0 |
| C66 | Ureter | 15 | 0.1 | 0.0 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C14 | Pharynx Unspec. | 10 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.1) | 0.0 |
| C65 | Renal Pelvis | 8 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.1) | 0.0 |
| C00 | Lip | 6 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 |
| C68 | Other Urinary Organs | 6 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 |
| All | All sites total | 21,841 | 100.0 | 57.4 | 8.7 | 73.6 | (72.6,74.6) | 8.4 |

Appendix 7: Incidence summary table, Malay females, Malaysia, 2012-2016

| ICD-10 | SITE | No. | % | CR | CR74 | ASR | (95%CL) | CumR |
|--------------------|--------------------------|----------|-------|------|------|------|------------------------|------|
| C50 | Breast | 10,455 | 35.2 | 28.0 | 3.4 | 31.5 | (30.9,32.1) | 3.4 |
| C18-C21 | Colorectal | 2,912 | 9.8 | 7.8 | 1.1 | 9.4 | (9.1,9.8) | 1.1 |
| C56 | Ovary | 1,984 | 6.7 | 5.3 | 0.6 | 5.9 | (5.6,6.2) | 0.6 |
| C53 | Cervix Uteri | 1,531 | 5.2 | 4.1 | 0.5 | 4.6 | (4.4,4.9) | 0.5 |
| C33-C34 | Trachea, Bronchus, Lung | 1,492 | 5.0 | 4.0 | 0.6 | 4.9 | (4.6,5.1) | 0.6 |
| C54 | Corpus Uteri | 1,409 | 4.7 | 3.8 | 0.5 | 4.4 | (4.1,4.6) | 0.5 |
| C81-C85;C96 | Lymphoma | 1,354 | 4.6 | 3.6 | 0.4 | 3.9 | (3.7,4.1) | 0.4 |
| C73 | Thyroid | 1,333 | 4.5 | 3.6 | 0.4 | 3.8 | (3.6,4.0) | 0.4 |
| C91-C95 | Leukaemia | 1,019 | 3.4 | 2.7 | 0.2 | 2.9 | (2.8, 3.1) | 0.2 |
| Others | Other & Unspecified | 564 | 1.9 | 1.5 | 0.2 | 1.8 | (1.6, 1.9) | 0.2 |
| C70-C72 | Brain, Nervous System | 557 | 1.9 | 1.5 | 0.1 | 1.6 | (1.5,1.7) | 0.1 |
| C22 | Liver | 517 | 1.7 | 1.4 | 0.2 | 1.7 | (1.6,1.9) | 0.2 |
| C44 | Other Skin | 504 | 1.7 | 1.3 | 0.2 | 1.7 | (1.5,1.8) | 0.2 |
| C55 | Uterus Unspec. | 452 | 1.5 | 1.2 | 0.2 | 1.4 | (1.3,1.5) | 0.2 |
| C11 | Nasopharynx | 383 | 1.3 | 1.0 | 0.1 | 1.1 | (1.0,1.3) | 0.1 |
| C25 | Pancreas | 330 | 1.1 | 0.9 | 0.1 | 1.1 | (1.0,1.2) | 0.1 |
| C16 | Stomach | 277 | 0.9 | 0.7 | 0.1 | 0.9 | (0.8,1.0) | 0.1 |
| C64 | Kidney | 257 | 0.9 | 0.7 | 0.1 | 0.8 | (0.7,0.9) | 0.1 |
| C40-C41 | Bone | 254 | 0.9 | 0.7 | 0.1 | 0.7 | (0.6,0.8) | 0.1 |
| C23-C24 | Gallbladder Etc. | 245 | 0.8 | 0.7 | 0.1 | 0.8 | (0.7,0.9) | 0.1 |
| C47; C49 | Connective, Soft Tissue | 237 | 0.8 | 0.6 | 0.1 | 0.7 | (0.6,0.8) | 0.1 |
| C47, C49 C67 | Bladder | 187 | 0.6 | 0.5 | 0.1 | 0.6 | (0.5,0.7) | 0.1 |
| C01-C02 | Tongue | 185 | 0.6 | 0.5 | 0.1 | 0.6 | (0.5,0.7) | 0.1 |
| C01-C02 C90 | Multiple Myeloma | 174 | 0.6 | 0.5 | 0.1 | 0.6 | (0.5,0.7) | 0.1 |
| C90 C15 | Oesophagus | 116 | 0.4 | 0.3 | 0.0 | 0.4 | (0.3,0.7) | 0.0 |
| C07-C08 | Salivary Glands | 112 | 0.4 | 0.3 | 0.0 | 0.4 | (0.3,0.4) | 0.0 |
| C07-C06 C03-C06 | Mouth | 103 | 0.4 | 0.3 | 0.0 | 0.3 | (0.3,0.4) | 0.0 |
| C03-C06 C43 | Melanoma Of Skin | 75 | 0.3 | 0.3 | 0.0 | 0.3 | (0.2,0.3) | 0.0 |
| | Nose, Sinuses Etc. | 74 | 0.2 | 0.2 | 0.0 | 0.2 | (0.2,0.3) | 0.0 |
| C30-C31 C69 | Eye | 65 | 0.2 | 0.2 | 0.0 | 0.2 | (0.2,0.3) | 0.0 |
| | Other Thoracic Organs | 63 | 0.2 | 0.2 | 0.0 | 0.2 | (0.2,0.2) | 0.0 |
| C37-C38 | Small Intestine | 61 | 0.2 | 0.2 | 0.0 | 0.2 | (0.1,0.2) | 0.0 |
| C17 | Other Female Genital | 58 | 0.2 | 0.2 | 0.0 | 0.2 | , , | 0.0 |
| C57 | Placenta | 56 57 | 0.2 | 0.2 | 0.0 | 0.2 | (0.1,0.2) (0.1,0.2) | 0.0 |
| C58 | | 46 | 0.2 | 0.2 | 0.0 | 0.1 | (0.1,0.2) | 0.0 |
| C52 | Vagina Vulva | 40 | 0.2 | 0.1 | 0.0 | 0.1 | | 0.0 |
| C51 | | 32 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.2) | |
| C32 | Larynx | | | | | | (0.1,0.1) | 0.0 |
| C74 | Adrenal Gland | 32 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.1) | 0.0 |
| C/5 | Other Endocrine | 30 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.1) | 0.0 |
| C09 | Tonsil | 26 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.1) | 0.0 |
| C88 | Immunoproliferative Dis. | 22 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C12-C13 | Hypopharynx | 19 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C00 | Lip | 14 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.1) | 0.0 |
| C10 | Other Oropharynx | 10 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.1) | 0.0 |
| C45 | Mesothelioma | 5 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 |
| C14 | Pharynx Unspec. | 4 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 |
| C46 | Kaposi Sarcoma | 3 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 |
| C65 | Renal Pelvis | 3 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 |
| C66 | Ureter | 2 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 |
| C68 | Other Urinary Organs | 1 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 |
| All | All sites total | 29,689 | 100.0 | 79.4 | 10.0 | 90.9 | (89.8,91.9) | 9.5 |

Appendix 8: Incidence summary table, Chinese males, Malaysia, 2012-2016

| ICD-10 | SITE | No. | % | CR | CR74 | ASR | (95%CL) | CumR |
|---------------|--------------------------|------------|------------|------------|------------|------------|------------------------|------------|
| C18-C21 | Colorectal | 4,008 | 18.7 | 23.9 | 2.4 | 19.6 | (19.0,20.2) | 2.3 |
| C33-C34 | Trachea, Bronchus, Lung | 3,258 | 15.2 | 19.4 | 2.0 | 16.0 | (15.4,16.5) | 2.0 |
| C61 | Prostate | 2,040 | 9.5 | 12.2 | 1.4 | 10.1 | (9.7,10.5) | 1.4 |
| C11 | Nasopharynx | 1,748 | 8.2 | 10.4 | 0.9 | 8.6 | (8.2,9.0) | 0.9 |
| C22 | Liver | 1,284 | 6.0 | 7.7 | 0.8 | 6.3 | (6.0,6.7) | 0.8 |
| C81-C85;C96 | Lymphoma | 943 | 4.4 | 5.6 | 0.5 | 4.8 | (4.5,5.1) | 0.5 |
| C44 | Other Skin | 914 862 | 4.3 | 5.5 | 0.5 | 4.5 | (4.2,4.8) | 0.5 |
| C16 | Stomach Leukaemia | 661 | 4.0 3.1 | 5.1 3.9 | 0.5 0.3 | 4.2 3.8 | (3.9,4.5) (3.5,4.1) | 0.5 0.3 |
| C91-C95 | Bladder | 618 | 2.9 | 3.9 | 0.3 | 3.0 | (2.8,3.3) | 0.3 |
| C67 | Other & Unspecified | 610 | 2.9 | 3.6 | 0.4 | 3.0 | (2.8,3.3) | 0.4 |
| Others C64 | Kidney | 585 | 2.5 | 3.5 | 0.4 | 2.9 | (2.7,3.2) | 0.4 |
| C04 C25 | Pancreas | 576 | 2.7 | 3.4 | 0.4 | 2.8 | (2.6,3.1) | 0.4 |
| C32 | Larynx | 374 | 1.7 | 2.2 | 0.4 | 1.8 | (1.6,2.0) | 0.4 |
| C32 C15 | Oesophagus | 321 | 1.5 | 1.9 | 0.2 | 1.6 | (1.4,1.7) | 0.2 |
| C70-C72 | Brain, Nervous System | 311 | 1.5 | 1.9 | 0.2 | 1.7 | (1.5,1.9) | 0.2 |
| C01-C02 | Tongue | 202 | 0.9 | 1.2 | 0.1 | 1.0 | (0.9,1.1) | 0.1 |
| C47; C49 | Connective, Soft Tissue | 189 | 0.9 | 1.1 | 0.1 | 1.0 | (0.8,1.1) | 0.1 |
| C23-C24 | Gallbladder Etc. | 182 | 0.9 | 1.1 | 0.1 | 0.9 | (0.8,1.0) | 0.1 |
| C73 | Thyroid | 173 | 0.8 | 1.0 | 0.1 | 0.9 | (0.7,1.0) | 0.1 |
| C03-C06 | Mouth | 138 | 0.6 | 0.8 | 0.1 | 0.7 | (0.6,0.8) | 0.1 |
| C62 | Testis | 135 | 0.6 | 0.8 | 0.1 | 0.7 | (0.6,0.9) | 0.1 |
| C40-C41 | Bone | 132 | 0.6 | 0.8 | 0.1 | 0.7 | (0.6, 0.8) | 0.1 |
| C50 | Breast | 125 | 0.6 | 0.8 | 0.1 | 0.6 | (0.5, 0.7) | 0.1 |
| C90 | Multiple Myeloma | 124 | 0.6 | 0.7 | 0.1 | 0.6 | (0.5, 0.7) | 0.1 |
| C30-C31 | Nose, Sinuses Etc. | 123 | 0.6 | 0.7 | 0.1 | 0.6 | (0.5, 0.7) | 0.1 |
| C07-C08 | Salivary Glands | 95 | 0.4 | 0.6 | 0.1 | 0.5 | (0.4, 0.6) | 0.1 |
| C17 | Small Intestine | 82 | 0.4 | 0.5 | 0.1 | 0.4 | (0.3, 0.5) | 0.1 |
| C37-C38 | Other Thoracic Organs | 79 | 0.4 | 0.5 | 0.0 | 0.4 | (0.3, 0.5) | 0.0 |
| C09 | Tonsil | 66 | 0.3 | 0.4 | 0.0 | 0.3 | (0.2,0.4) | 0.0 |
| C43 | Melanoma Of Skin | 60 | 0.3 | 0.4 | 0.0 | 0.3 | (0.2,0.4) | 0.0 |
| C12-C13 | Hypopharynx | 56 | 0.3 | 0.3 | 0.0 | 0.3 | (0.2,0.4) | 0.0 |
| C60 | Penis | 47 | 0.2 | 0.3 | 0.0 | 0.2 | (0.2,0.3) | 0.0 |
| C10 | Other Oropharynx | 38 | 0.2 | 0.2 | 0.0 | 0.2 | (0.1,0.3) | 0.0 |
| C75 | Other Endocrine | 33 | 0.2 | 0.2 | 0.0 | 0.2 | (0.1,0.3) | 0.0 |
| C66 | Ureter | 27 | 0.1 | 0.2 | 0.0 | 0.1 | (0.1,0.2) | 0.0 |
| C63 | Other Male Genital | 24 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.2) | 0.0 |
| C88 | Immunoproliferative Dis. | 24 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.2) | 0.0 |
| C74 | Adrenal Gland | 20 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.2) | 0.0 |
| C14 | Pharynx Unspec. | 17 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C00 | Lip | 15 45 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C45 | Mesothelioma | 15 45 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C69 | Eye | 15 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.2) | 0.0 |
| C65 | Renal Pelvis | 13 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C46 | Kaposi Sarcoma | 12 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C68 | Other Urinary Organs | 11 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| All | All sites total | 21,385 | 100.0 | 127.6 | 12.6 | 106.1 | (104.7,107.6) | 11.9 |

Appendix 9: Incidence summary table, Chinese females, Malaysia, 2012-2016

| ICD-10 | SITE | No. | % | CR | CR74 | ASR | (95%CL) | CumR |
|--------------------|-------------------------------|------------|------------|------------|------------|------------|------------------------|------------|
| C50 | Breast | 7,759 | 34.6 | 49.1 | 4.6 | 40.7 | (39.8,41.6) | 4.5 |
| C18-C21 | Colorectal | 2,990 | 13.3 | 18.9 | 1.8 | 15.2 | (14.7,15.7) | 1.8 |
| C33-C34 | Trachea, Bronchus, Lung | 1,537 | 6.8 | 9.7 | 0.9 | 7.8 | (7.4,8.2) | 0.9 |
| C53 | Cervix Uteri | 1,316 | 5.9 | 8.3 | 8.0 | 6.8 | (6.5,7.2) | 8.0 |
| C56 | Ovary | 1,006 | 4.5 | 6.4 | 0.6 | 5.4 | (5.0,5.7) | 0.6 |
| C54 | Corpus Uteri | 977 | 4.4 | 6.2 | 0.6 | 5.1 | (4.8,5.4) | 0.6 |
| C44 | Other Skin | 618 | 2.8 | 3.9 | 0.3 | 3.0 | (2.8,3.3) | 0.3 |
| C81-C85;C96 | Lymphoma | 602 | 2.7 | 3.8 | 0.4 | 3.2 | (3.0,3.5) | 0.4 |
| C16 | Stomach | 551 | 2.5 | 3.5 | 0.3 | 2.8 | (2.5,3.0) | 0.3 |
| C11 | Nasopharynx | 549 | 2.4 | 3.5 | 0.3 | 2.9 | (2.7,3.1) | 0.3 |
| C91-C95 | Leukaemia | 492 | 2.2 | 3.1 | 0.3 | 2.9 | (2.7,3.2) | 0.3 |
| C25 | Pancreas | 444 | 2.0 | 2.8 | 0.3 | 2.3 | (2.1,2.5) | 0.3 |
| Others | Other & Unspecified | 430 | 1.9 | 2.7 | 0.3 | 2.2 | (2.0,2.4) | 0.3 |
| C22 | Liver | 411 | 1.8 | 2.6 | 0.3 | 2.2 | (1.9,2.4) | 0.3 |
| C73 | Thyroid | 383 | 1.7 | 2.4 | 0.2 | 2.0 | (1.8,2.2) | 0.2 |
| C55 | Uterus Unspec. | 277 | 1.2 | 1.8 | 0.2 | 1.4 | (1.3,1.6) | 0.2 |
| C70-C72 | Brain, Nervous System | 263 | 1.2 | 1.7 | 0.1 | 1.5 | (1.4,1.7) | 0.1 |
| C64 | Kidney | 255 | 1.1 | 1.6 | 0.2 | 1.4 | (1.2,1.5) | 0.2 |
| C23-C24 | Gallbladder Etc. | 218 | 1.0 | 1.4 | 0.1 | 1.1 | (0.9,1.2) | 0.1 |
| C67 | Bladder | 170 | 0.8 | 1.1 | 0.1 | 0.9 | (0.7,1.0) | 0.1 |
| C47; C49 | Connective, Soft Tissue | 137 | 0.6 | 0.9 | 0.1 | 0.8 | (0.6,0.9) | 0.1 |
| C01-C02 | Tongue | 126 100 | 0.6 0.4 | 0.8 0.6 | 0.1 0.1 | 0.7 0.5 | (0.5,0.8) (0.4,0.6) | 0.1 0.1 |
| C90 | Multiple Myeloma | 85 | 0.4 | 0.6 | 0.1 | 0.5 | (0.4,0.6) | 0.1 |
| C07-C08 | Salivary Glands Oesophagus | 77 | 0.4 | 0.5 | 0.0 | 0.4 | (0.3,0.5) | 0.0 |
| C15 | Mouth | 77 72 | 0.3 | 0.5 | 0.0 | 0.4 | (0.3,0.5) | 0.0 |
| C03-C06 C40-C41 | Bone | 65 | 0.3 | 0.3 | 0.0 | 0.4 | (0.3,0.5) | 0.0 |
| C40-C41 C37-C38 | Other Thoracic Organs | 55 | 0.2 | 0.4 | 0.0 | 0.4 | (0.2,0.4) | 0.0 |
| C57-C36 C51 | Vulva | 55 | 0.2 | 0.3 | 0.0 | 0.3 | (0.2,0.4) | 0.0 |
| C43 | Melanoma Of Skin | 52 | 0.2 | 0.3 | 0.0 | 0.3 | (0.2,0.3) | 0.0 |
| C43 C17 | Small Intestine | 51 | 0.2 | 0.3 | 0.0 | 0.3 | (0.2,0.3) | 0.0 |
| C30-C31 | Nose, Sinuses Etc. | 47 | 0.2 | 0.3 | 0.0 | 0.2 | (0.2,0.3) | 0.0 |
| C52 | Vagina | 45 | 0.2 | 0.3 | 0.0 | 0.2 | (0.2,0.3) | 0.0 |
| C57 | Other Female Genital | 34 | 0.2 | 0.2 | 0.0 | 0.2 | (0.1,0.2) | 0.0 |
| C32 | Larynx | 31 | 0.1 | 0.2 | 0.0 | 0.2 | (0.1,0.2) | 0.0 |
| C09 | Tonsil | 23 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.2) | 0.0 |
| C66 | Ureter | 18 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C88 | Immunoproliferative Dis. | 17 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C69 | Eye | 16 | 0.1 | 0.1 | 0.0 | 0.1 | (0.1,0.2) | 0.0 |
| C12-C13 | Hypopharynx | 13 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0, 0.1) | 0.0 |
| C00 | Lip | 12 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0, 0.1) | 0.0 |
| C74 | Adrenal Gland | 12 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0, 0.2) | 0.0 |
| C75 | Other Endocrine | 12 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C10 | Other Oropharynx | 8 | 0.0 | 0.1 | 0.0 | 0.0 | (0.0,0.1) | 0.0 |
| C58 | Placenta | 8 | 0.0 | 0.1 | 0.0 | 0.0 | (0.0,0.1) | 0.0 |
| C45 | Mesothelioma | 7 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.1) | 0.0 |
| C14 | Pharynx Unspec. | 6 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.1) | 0.0 |
| C65 | Renal Pelvis | 4 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 |
| C68 | Other Urinary Organs | 4 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 |
| C46 | Kaposi Sarcoma | 0 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 |
| All | All sites total | 22,440 | 100.0 | 142.1 | 13.3 | 117.3 | (115.8,118.9) | 12.5 |

Appendix 10: Incidence summary table, Indian males, Malaysia, 2012-2016

| ICD-10 | SITE | No. | % | CR | CR74 | ASR | (95%CL) | CumR |
|--------------------|--------------------------|----------|------------|------------|------------|------------|------------------------|------------|
| C18-C21 | Colorectal | 470 | 16.5 | 9.6 | 1.4 | 11.0 | (10.0,12.1) | 1.4 |
| C61 | Prostate | 245 | 8.6 | 5.0 | 0.9 | 6.8 | (5.9,7.6) | 0.9 |
| C33-C34 | Trachea, Bronchus, Lung | 239 | 8.4 | 4.9 | 0.7 | 5.7 | (5.0,6.5) | 0.7 |
| C81-C85;C96 | Lymphoma | 178 | 6.3 | 3.6 | 0.4 | 3.7 | (3.1,4.2) | 0.4 |
| C22 | Liver | 147 | 5.2 | 3.0 | 0.4 | 3.5 | (2.9,4.1) | 0.4 |
| C16 | Stomach | 143 | 5.0 | 2.9 | 0.4 | 3.5 | (2.9,4.1) | 0.4 |
| C91-C95 | Leukaemia | 129 | 4.5 | 2.6 | 0.2 | 2.8 | (2.3,3.2) | 0.2 |
| C15 | Oesophagus | 98 | 3.4 | 2.0 | 0.3 | 2.4 | (1.9,2.9) | 0.3 |
| C64 | Kidney | 97 | 3.4 | 2.0 | 0.3 | 2.2 | (1.7,2.6) | 0.3 |
| C67 | Bladder | 96 | 3.4 | 2.0 | 0.3 | 2.4 | (1.9,2.9) | 0.3 |
| C32 | Larynx | 93 | 3.3 | 1.9 | 0.3 | 2.2 | (1.7,2.6) | 0.3 |
| C01-C02 | Tongue | 87 | 3.1 | 1.8 | 0.2 | 2.0 | (1.5,2.4) | 0.2 |
| C03-C06 | Mouth | 87 | 3.1 | 1.8 | 0.3 | 2.0 | (1.6,2.5) | 0.3 |
| Others | Other & Unspecified | 86 | 3.0 | 1.8 | 0.2 | 2.0 | (1.6,2.4) | 0.2 |
| C25 | Pancreas | 85 | 3.0 | 1.7 | 0.2 | 1.9 | (1.5,2.4) | 0.2 |
| C44 | Other Skin | 69 | 2.4 | 1.4 | 0.2 | 1.7 | (1.3,2.1) | 0.2 |
| C70-C72 | Brain, Nervous System | 60 | 2.1 | 1.2 | 0.2 | 1.4 | (1.0,1.7) | 0.2 |
| C73 | Thyroid | 52 | 1.8 | 1.1 | 0.1 | 1.1 | (0.8,1.4) | 0.1 |
| C62 | Testis | 37 | 1.3 | 0.8 | 0.1 | 0.7 | (0.5,1.0) | 0.1 |
| C47; C49 | Connective, Soft Tissue | 35 | 1.2 | 0.7 | 0.1 | 0.8 | (0.5,1.1) | 0.1 |
| C12-C13 | Hypopharynx | 29 | 1.0 | 0.6 | 0.1 | 0.7 | (0.4,1.0) | 0.1 |
| C40-C41 | Bone | 27 | 1.0 | 0.6 | 0.0 | 0.6 | (0.3,0.8) | 0.0 |
| C07-C08 | Salivary Glands | 26 | 0.9 | 0.5 | 0.1 | 0.6 | (0.4,0.8) | 0.1 |
| C90 | Multiple Myeloma | 26 | 0.9 | 0.5 | 0.1 | 0.6 | (0.4,0.8) | 0.1 |
| C11 | Nasopharynx | 25 | 0.9 | 0.5 | 0.1 | 0.6 | (0.3,0.8) | 0.1 |
| C23-C24 | Gallbladder Etc. | 24 21 | 0.8 0.7 | 0.5 | 0.1 0.1 | 0.6 | (0.3,0.8) | 0.1 0.1 |
| C50 | Breast Penis | 21 | 0.7 | 0.4 0.4 | 0.1 | 0.5 0.5 | (0.3,0.7) | 0.1 |
| C60 | Tonsil | 19 | 0.7 | 0.4 | 0.0 | 0.5 | (0.3,0.7) (0.2,0.6) | 0.0 |
| C09 | Other Oropharynx | 16 | 0.7 | 0.4 | 0.0 | 0.4 | (0.2,0.6) | 0.0 |
| C10 | Small Intestine | 12 | 0.6 | 0.3 | 0.0 | 0.4 | (0.2,0.0) | 0.0 |
| C17 | Nose, Sinuses Etc. | 12 | 0.4 | 0.2 | 0.0 | 0.3 | (0.1,0.3) | 0.0 |
| C30-C31 C37-C38 | Other Thoracic Organs | 10 | 0.4 | 0.2 | 0.0 | 0.2 | (0.1,0.4) | 0.0 |
| | Other Endocrine | 9 | 0.4 | 0.2 | 0.0 | 0.2 | (0.1,0.4) | 0.0 |
| C75 C14 | Pharynx Unspec. | 8 | 0.3 | 0.2 | 0.0 | 0.2 | (0.1,0.4) | 0.0 |
| C14 C43 | Melanoma Of Skin | 4 | 0.3 | 0.2 | 0.0 | 0.2 | (0.1,0.4) $(0.0,0.2)$ | 0.0 |
| C43 C88 | Immunoproliferative Dis. | 4 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.2) | 0.0 |
| C00 | Lip | 3 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C45 | Mesothelioma | 2 | 0.1 | 0.0 | 0.0 | 0.0 | (0.0,0.2) (0.0,0.1) | 0.0 |
| C45 | Kaposi Sarcoma | 2 | 0.1 | 0.0 | 0.0 | 0.0 | (0.0,0.1) | 0.0 |
| C40 C65 | Renal Pelvis | 2 | 0.1 | 0.0 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C66 | Ureter | 2 | 0.1 | 0.0 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C69 | Eye | 2 | 0.1 | 0.0 | 0.0 | 0.1 | (0.0,0.1) | 0.0 |
| C74 | Adrenal Gland | 2 | 0.1 | 0.0 | 0.0 | 0.0 | (0.0,0.1) | 0.0 |
| C63 | Other Male Genital | 1 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.1) | 0.0 |
| C68 | Other Urinary Organs | Ö | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.1) | 0.0 |
| All | All sites total | 2,842 | 100.0 | 58.1 | 7.9 | 66.7 | (64.2,69.3) | 7.6 |
| All | 01100 10101 | _,~ - | | 50.1 | | JUI1 | (5,5515) | |

Appendix 11: Incidence summary table, Indian females, Malaysia, 2012-2016

| ICD-10 | SITE | No. | % | CR | CR74 | ASR | (95%CL) | CumR | |
|-------------|--------------------------|----------|------------|------------|------------|------------|------------------------|------------|--|
| C50 | Breast | 1,910 | 36.8 | 39.2 | 4.5 | 38.1 | (36.4,39.8) | 4.4 | |
| C18-C21 | Colorectal | 401 | 7.7 | 8.2 | 1.1 | 8.5 | (7.6, 9.3) | 1.1 | |
| C53 | Cervix Uteri | 273 | 5.3 | 5.6 | 0.6 | 5.5 | (4.9,6.2) | 0.6 | |
| C56 | Ovary | 272 | 5.2 | 5.6 | 0.6 | 5.4 | (4.8,6.1) | 0.6 | |
| C54 | Corpus Uteri | 265 | 5.1 | 5.4 | 0.7 | 5.5 | (4.8,6.2) | 0.7 | |
| C03-C06 | Mouth | 220 | 4.2 | 4.5 | 0.6 | 4.9 | (4.2,5.5) | 0.6 | |
| C73 | Thyroid | 167 | 3.2 | 3.4 | 0.3 | 3.2 | (2.7,3.7) | 0.3 | |
| C16 | Stomach | 155 | 3.0 | 3.2 | 0.4 | 3.3 | (2.8,3.9) | 0.4 | |
| C81-C85;C96 | Lymphoma | 151 | 2.9 | 3.1 | 0.3 | 3.0 | (2.5,3.5) | 0.3 | |
| C33-C34 | Trachea, Bronchus, Lung | 135 | 2.6 | 2.8 | 0.4 | 3.0 | (2.4,3.5) | 0.4 | |
| C91-C95 | Leukaemia | 123 | 2.4 | 2.5 | 0.3 | 2.6 | (2.2,3.1) | 0.3 | |
| C55 | Uterus Unspec. | 115 | 2.2 | 2.4 | 0.3 | 2.4 | (2.0,2.9) | 0.3 | |
| Others | Other & Unspecified | 115 | 2.2 | 2.4 | 0.3 | 2.4 | (2.0,2.9) | 0.3 | |
| C15 | Oesophagus | 97 | 1.9 | 2.0 | 0.2 | 2.1 | (1.6,2.5) | 0.2 | |
| C01-C02 | Tongue | 93 | 1.8 | 1.9 | 0.2 | 2.0 | (1.6,2.4) | 0.2 | |
| C44 | Other Skin | 76 75 | 1.5 | 1.6 | 0.2 | 1.7 | (1.3,2.1) | 0.2 | |
| C70-C72 | Brain, Nervous System | 75 | 1.4 | 1.5 | 0.2 | 1.6 | (1.2,1.9) | 0.2 | |
| C22 | Liver | 63 | 1.2 | 1.3 | 0.2 | 1.4 | (1.0,1.7) | 0.2 | |
| C25 | Pancreas | 52 | 1.0 | 1.1 | 0.2 | 1.1 | (0.8,1.4) | 0.2 | |
| C64 | Kidney | 48 | 0.9 | 1.0 | 0.1 | 1.1 | (0.7,1.4) | 0.1 | |
| C23-C24 | Gallbladder Etc. | 46 | 0.9 | 0.9 | 0.1 | 1.0 | (0.7,1.3) | 0.1 | |
| C47; C49 | Connective, Soft Tissue | 31 | 0.6 | 0.6 | 0.1 | 0.7 | (0.4,0.9) | 0.1 | |
| C90 | Multiple Myeloma | 30 29 | 0.6 0.6 | 0.6 0.6 | 0.1 0.1 | 0.6 0.7 | (0.4,0.9) | 0.1 0.1 | |
| C67 | Bladder | | | | | | (0.4,0.9) | | |
| C12-C13 | Hypopharynx | 27 27 | 0.5 0.5 | 0.6 0.6 | 0.1 0.1 | 0.6 0.6 | (0.3,0.8) | 0.1 0.1 | |
| C32 | Larynx | 21 24 | 0.5 | 0.6 | 0.1 | 0.6 | (0.4,0.8) | 0.1 | |
| C40-C41 | Bone Salivary Glands | 23 | 0.5 | 0.5 | 0.0 | 0.5 | (0.3,0.7) (0.3,0.7) | 0.0 | |
| C07-C08 | Other Female Genital | 20 | 0.4 | 0.5 | 0.1 | 0.5 | (0.2,0.7) | 0.1 | |
| C57 | Nasopharynx | 18 | 0.4 | 0.4 | 0.0 | 0.4 | (0.2,0.6) | 0.0 | |
| C11 | Vagina | 16 | 0.3 | 0.4 | 0.0 | 0.4 | (0.2,0.5) | 0.0 | |
| C52 C51 | Vulva | 13 | 0.3 | 0.3 | 0.0 | 0.3 | (0.1,0.4) | 0.0 | |
| C17 | Small Intestine | 11 | 0.2 | 0.3 | 0.0 | 0.3 | (0.1,0.4) | 0.0 | |
| C00 | Lip | 10 | 0.2 | 0.2 | 0.0 | 0.2 | (0.1,0.4) | 0.0 | |
| C30-C31 | Nose, Sinuses Etc. | 10 | 0.2 | 0.2 | 0.0 | 0.2 | (0.1,0.4) | 0.0 | |
| C37-C38 | Other Thoracic Organs | 9 | 0.2 | 0.2 | 0.0 | 0.2 | (0.1,0.3) | 0.0 | |
| C43 | Melanoma Of Skin | 8 | 0.2 | 0.2 | 0.0 | 0.2 | (0.0,0.3) | 0.0 | |
| C43 | Other Oropharynx | 7 | 0.1 | 0.2 | 0.0 | 0.2 | (0.0,0.3) | 0.0 | |
| C10 | Pharynx Unspec. | 7 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.2) | 0.0 | |
| C09 | Tonsil | 6 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.2) | 0.0 | |
| C74 | Adrenal Gland | 5 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.2) | 0.0 | |
| C75 | Other Endocrine | 5 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.2) | 0.0 | |
| C45 | Mesothelioma | 3 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.1) | 0.0 | |
| C58 | Placenta | 3 | 0.1 | 0.1 | 0.0 | 0.1 | (0.0,0.1) | 0.0 | |
| C69 | Eye | 2 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.1) | 0.0 | |
| C46 | Kaposi Sarcoma | 0 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 | |
| C65 | Renal Pelvis | 0 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 | |
| C66 | Ureter | 0 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 | |
| C68 | Other Urinary Organs | 0 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 | |
| C88 | Immunoproliferative Dis. | 0 | 0.0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 | |
| All | All sites total | 5,196 | 100.0 | 106.7 | 12.5 | 106.9 | (104.0,109.9) | 11.7 | |

Appendix 12: Incidence summary table for 12 selected cancer sites by state and sex, Malaysia 2012-2016

| Otata | Total | | | | MALE | | | | | | | EMALE | | |
|--------------------|----------------|------------|--------------|------------|--------------|----------------------------|------------|----|--------------------|--------------|------------|--------------|----------------------------|------------|
| State | TOTAL | No. | CR | CR74 | ASR | (95% CL) | CumR | | No. | CR | CR74 | ASR | (95% CL) | CumR |
| 1. Breast | | | | | | | | | | | | | | |
| Selangor | 3,624 | 60 | 0.5 | 0.1 | 0.6 | (0.4, 0.7) | 0.1 | 3, | 564 | 27.8 | 3.7 | 32.4 | (31.3,33.5) | 3.7 |
| Johor | 3,300 | 36 | 0.4 | 0.1 | 0.5 | (0.3,0.6) | 0.1 | 3, | 264 | 42.6 | 4.8 | 43.3 | (41.8,44.8) | 4.7 |
| Perak | 2,152 | 23 | 0.4 | 0.0 | 0.4 | (0.2,0.5) | 0.0 | | 129 | 37.1 | 3.6 | 35.0 | (33.4, 36.5) | 3.5 |
| Penang | 2,139 | 43 | 1.1 | 0.1 | 1.1 | (0.8,1.4) | 0.1 | | 096 | 55.2 | 5.6 | 49.3 | (47.2,51.4) | 5.5 |
| WPKL&P | 1,629 | 25 | 0.6 | 0.1 | 0.6 | (0.4,0.9) | 0.1 | | 604 | 36.6 | 4.6 | 39.8 | (37.8,41.8) | 4.5 |
| Sarawak Kedah | 1,601 | 20 | 0.3 | 0.0 | 0.4 | (0.2,0.5) | 0.0 | | 581 | 26.4 | 3.1 | 27.8 | (26.4,29.1) | 3.0 |
| Sabah | 1,452 1,218 | 32 | 0.7 | 0.1 | 0.7 | (0.4,0.9) | 0.1 0.0 | | 420 | 29.5 | 3.1 | 28.4 | (26.9,29.9) | 3.0 |
| Pahang | 1,066 | 12 15 | 0.2 0.4 | 0.0 0.1 | 0.3 0.5 | (0.1,0.5) (0.2,0.7) | 0.0 | | 206 051 | 19.7 29.9 | 2.9 3.4 | 26.7 31.6 | (25.1,28.3) (29.7,33.5) | 2.9 3.4 |
| N. Sembilan | 1,031 | 8 | 0.4 | 0.1 | 0.3 | (0.2,0.7) | 0.1 | | 023 | 41.9 | 4.5 | 39.8 | (37.4,42.3) | 4.4 |
| Melaka | 982 | 6 | 0.3 | 0.0 | 0.4 | (0.1,0.5) | 0.0 | | 976 | 48.3 | 5.2 | 46.8 | (43.8,49.7) | 5.1 |
| Kelantan | 845 | 8 | 0.2 | 0.0 | 0.3 | (0.1,0.4) | 0.0 | | 837 | 20.8 | 2.4 | 22.4 | (20.9,23.9) | 2.4 |
| Terengganu | 660 | 2 | 0.1 | 0.0 | 0.1 | (-0.0,0.2) | 0.0 | | 658 | 25.0 | 3.0 | 28.7 | (26.5,30.9) | 3.0 |
| Perlis | 200 | 0 | 0.0 | 0.0 | 0.0 | (0.0,0.0) | 0.0 | | 200 | 33.2 | 3.5 | 31.7 | (27.2,36.1) | 3.5 |
| W.P. Labuan | 26 | 1 | 0.5 | 0.0 | 4.0 | (-3.8,11.8) | 0.0 | | 25 | 12.6 | 2.0 | 21.3 | (10.6,32.0) | 2.0 |
| 2. Colorectal | | | | | | | | | | | | | | |
| Johor | 2,405 | 1.350 | 16.6 | 2.4 | 18.7 | (17.6,19.7) | 2.3 | 1. | 055 | 13.8 | 1.7 | 14.7 | (13.8,15.6) | 1.7 |
| Selangor | 2,019 | | 8.5 | 1.5 | 11.8 | (11.1,12.5) | 1.5 | | 894 | 7.0 | 1.1 | 9.2 | (8.6,9.9) | 1.1 |
| Penang | 1,541 | 852 | 22.6 | 2.6 | 21.7 | (20.2,23.2) | 2.6 | | 689 | 18.2 | 1.9 | 16.2 | (15.0,17.4) | 1.9 |
| Perak | 1,528 | 847 | 14.4 | 1.5 | 12.7 | (11.8,13.5) | 1.5 | | 681 | 11.9 | 1.1 | 12.1 | (11.1,13.0) | 1.1 |
| Sarawak | 1,337 | 793 | 12.8 | 1.7 | 13.8 | (12.8,14.8) | 1.7 | | 544 | 9.1 | 1.2 | 9.8 | (8.9,10.6) | 1.2 |
| Sabah | 1,053 | 622 | 9.9 | 1.9 | 15.5 | (14.2,16.8) | 1.9 | | 431 | 7.0 | 1.3 | 10.9 | (9.8,11.9) | 1.3 |
| Kedah | 965 | 525 | 10.9 | 1.5 | 11.6 | (10.6, 12.6) | 1.5 | | 440 | 9.1 | 1.1 | 8.8 | (7.9, 9.6) | 1.1 |
| WPKL&P | 946 | 565 | 12.5 | 1.9 | 15.3 | (14.0,16.6) | 1.9 | | 381 | 8.7 | 1.4 | 10.6 | (9.6,11.7) | 1.4 |
| N. Sembilan | 804 | 436 | 17.4 | 2.2 | 18.1 | (16.4,19.9) | 2.2 | | 368 | 15.1 | 1.5 | 14.3 | (12.8,15.8) | 1.5 |
| Pahang | 793 | 466 | 12.3 | 1.8 | 14.4 | (13.1,15.7) | 1.7 | | 327 | 9.3 | 1.2 | 10.1 | (9.0,11.2) | 1.2 |
| Kelantan Melaka | 724 | 370 | 9.2 | 1.4 | 11.4 | (10.3,12.6) | 1.4 | | 354 | 8.8 | 1.2 | 9.6 | (8.6,10.6) | 1.2 |
| Terengganu | 678 560 | 363 | 18.2 | 2.3 | 19.1 | (17.1,21.1) | 2.2 | | 315 | 15.6 | 1.7 | 14.9 | (13.3,16.7) | 1.7 |
| Perlis | 134 | 305 69 | 11.2 11.9 | 1.9 1.4 | 14.8 11.7 | (13.2,16.5) (8.9,14.5) | 1.9 1.4 | | 255 65 | 9.7 10.8 | 1.4 1.4 | 11.6 10.3 | (10.2,13.1) (7.8,12.8) | 1.4 1.4 |
| W.P. Labuan | 28 | 13 | 6.3 | 0.9 | 18.6 | (4.3,32.8) | 0.9 | | 15 | 7.5 | 2.4 | 20.9 | (7.6,34.2) | 2.3 |
| | 20 | 10 | 0.0 | 0.5 | 10.0 | (4.0,02.0) | 0.0 | | 10 | 7.0 | 2.7 | 20.0 | (1.0,04.2) | 2.0 |
| 3. Trachea, br | | | | | | | | | | | | | /a a = => | |
| Johor | 1,731 | | 15.2 | 2.2 | 17.3 | (16.3,18.2) | 2.2 | | 494 | 6.4 | 0.8 | 6.9 | (6.2,7.5) | 0.8 |
| Perak | 1,356 | 912 | 15.5 | 1.7 | 13.6 | (12.7,14.5) | 1.6 | | 444 | 7.7 | 0.7 | 8.0 | (7.3,8.8) | 0.7 |
| Sarawak | 1,142 | 722 | 11.7 | 1.6 | 12.7 | (11.7,13.6) | 1.6 | | 420 | 7.0 | 1.0 | 7.7 | (6.9,8.4) | 1.0 |
| Selangor | 1,025 | 681 676 | 5.1 | 1.0 | 7.4 | (6.8,7.9) | 1.0 | | 344 | 2.7 | 0.5 | 3.6 | (3.2,4.0) | 0.5 |
| Penang | 1,001 | 676 483 | 18.0 7.6 | 2.1 1.6 | 17.3 12.3 | (16.0,18.6) (11.2,13.4) | 2.1 | | 325 291 | 8.6 4.7 | 0.9 1.0 | 7.7 7.9 | (6.9,8.5) | 0.9 |
| Sabah WPKL&P | 774 723 | 507 | 11.2 | 1.6 | 13.5 | (12.3,14.8) | 1.6 1.6 | | 216 | 4.7 | 0.7 | 7.9 5.9 | (6.9,8.8) (5.1,6.7) | 1.0 |
| Kelantan | 723 712 | 485 | 12.0 | 1.9 | 15.0 | (12.3, 14.0) | 1.0 | | 210 | 5.7 | 0.7 | 6.1 | (5.1,6.7) | 0.7 0.8 |
| Pahang | 648 | 465 447 | 11.8 | 1.9 | 14.1 | (12.8,15.4) | 1.8 | | 22 <i>1</i> 201 | 5.7 5.7 | 0.8 | 6.4 | (5.5,7.2) | 0.8 |
| Kedah | 614 | 419 | 8.7 | 1.2 | 9.4 | (8.5,10.3) | 1.0 | | 195 | 4.1 | 0.5 | 3.8 | (3.3,4.4) | 0.6 |
| Terengganu | 523 | 382 | 14.0 | 2.4 | 18.9 | (17.0,20.8) | 2.4 | | 141 | 5.4 | 0.8 | 6.5 | (5.4,7.6) | 0.8 |
| Melaka | 471 | 351 | 17.6 | 2.3 | 18.3 | (16.4,20.3) | 2.3 | | 120 | 5.9 | 0.8 | 5.8 | (4.7,6.8) | 0.8 |
| N. Sembilan | 425 | 307 | 12.2 | 1.6 | 12.9 | (11.4,14.3) | 1.6 | | 118 | 4.8 | 0.6 | 4.7 | (3.8,5.5) | 0.6 |
| | 0 | | | | | , , , | | | - | | | | | 0.0 |
| Perlis | 84 | 62 | 10.7 | 1.4 | 10.4 | (7.8, 13.0) | 1.4 | | 22 | 3.6 | 0.5 | 3.4 | (2.0,4.8) | 0.5 |

Appendix 12: Incidence summary table for 12 selected cancer sites by state and sex, Malaysia 2012-2016 (continue)

| State | Total | | | | MALE | | | | | ا | FEMALE | | |
|-----------------------|---------|-----|------|------|------|--------------|------|-----|-----|------|--------|------------|------|
| | | No. | CR | CR74 | ASR | (95% CL) | CumR | No. | CR | CR74 | ASR | (95% CL) | CumR |
| 4. Lymphoma | | | | | | | | | | | | | |
| Selangor | 867 | 469 | 3.5 | 0.5 | 4.1 | (3.7,4.5) | 0.5 | 398 | 3.1 | 0.4 | 3.5 | (3.2, 3.9) | 0.4 |
| Johor | 846 | 505 | 6.2 | 0.7 | 6.5 | (5.9,7.0) | 0.7 | 341 | 4.5 | 0.5 | 4.5 | (4.0,5.0) | 0.5 |
| Sabah | 585 | 345 | 5.5 | 8.0 | 7.4 | (6.6,8.2) | 8.0 | 240 | 3.9 | 0.6 | 5.1 | (4.4,5.8) | 0.6 |
| Perak | 524 | 306 | 5.2 | 0.5 | 4.8 | (4.3,5.4) | 0.5 | 218 | 3.8 | 0.3 | 3.8 | (3.2,4.3) | 0.3 |
| Sarawak | 501 | 281 | 4.5 | 0.5 | 4.7 | (4.2,5.3) | 0.5 | 220 | 3.7 | 0.4 | 3.8 | (3.3,4.4) | 0.4 |
| Penang | 428 | 250 | 6.6 | 0.7 | 6.3 | (5.5,7.1) | 0.6 | 178 | 4.7 | 0.5 | 4.3 | (3.7,4.9) | 0.5 |
| WPKL&P | 390 | 221 | 4.9 | 0.6 | 5.5 | (4.7,6.2) | 0.6 | 169 | 3.9 | 0.5 | 4.2 | (3.6,4.9) | 0.5 |
| Pahang | 350 | 228 | 6.0 | 0.7 | 6.5 | (5.7,7.4) | 0.7 | 122 | 3.5 | 0.4 | 3.7 | (3.0,4.4) | 0.4 |
| Melaka | 293 | 181 | 9.1 | 1.0 | 9.2 | (7.9,10.6) | 1.0 | 112 | 5.6 | 0.6 | 5.3 | (4.3,6.3) | 0.6 |
| Kelantan | 289 | 182 | 4.5 | 0.5 | 5.1 | (4.3,5.8) | 0.5 | 107 | 2.7 | 0.3 | 2.8 | (2.3,3.4) | 0.3 |
| Kedah | 267 | 163 | 3.4 | 0.4 | 3.5 | (2.9,4.0) | 0.4 | 104 | 2.2 | 0.2 | 2.1 | (2.1,1.7) | 0.3 |
| Terengganu | 229 | 121 | 4.5 | 0.6 | 5.2 | (4.3,6.2) | 0.6 | 108 | 4.1 | 0.5 | 4.5 | (3.6,5.4) | 0.2 |
| N. Sembilan | | 116 | 4.6 | 0.5 | 4.6 | (3.8,5.5) | 0.5 | 80 | 3.3 | 0.3 | 3.2 | | 0.3 |
| Perlis | 196 | | | | | | 0.8 | | | | | (2.5,3.9) | |
| | 61 | 41 | 7.1 | 0.8 | 7.0 | (4.8,9.2) | | 20 | 3.3 | 0.3 | 3.0 | (1.7,4.4) | 0.3 |
| W.P. Labuan | 4 | 3 | 1.5 | 0.1 | 1.7 | (-0.2,3.5) | 0.1 | 1 | 0.5 | 0.0 | 0.5 | (-0.5,1.4) | 0.0 |
| 5. Nasopharyn | X | | | | | | | | | | | | |
| Sarawak | 963 | 707 | 11.4 | 1.3 | 11.6 | (10.7, 12.4) | 1.3 | 256 | 4.3 | 0.5 | 4.4 | (3.9, 5.0) | 0.5 |
| Johor | 658 | 478 | 5.9 | 0.7 | 6.0 | (5.5,6.6) | 0.7 | 180 | 2.4 | 0.3 | 2.4 | (2.0,2.8) | 0.3 |
| Perak | 553 | 418 | 7.1 | 0.7 | 6.6 | (6.0,7.2) | 0.7 | 135 | 2.4 | 0.2 | 2.2 | (1.8,2.5) | 0.2 |
| Sabah | 493 | 353 | 5.6 | 0.8 | 7.3 | (6.5,8.1) | 0.8 | 140 | 2.3 | 0.3 | 3.1 | (2.5,3.6) | 0.2 |
| Selangor | 467 | 336 | 2.5 | 0.3 | 2.9 | (2.5,3.2) | 0.3 | 131 | 1.0 | 0.1 | 1.2 | (1.0,1.4) | 0.3 |
| Penang | | 234 | 6.2 | 0.6 | 5.7 | (4.9,6.4) | 0.6 | 80 | 2.1 | 0.1 | 1.9 | (1.5, 1.4) | 0.1 |
| WPKL&P | 314 | | | 0.6 | | | 0.5 | 61 | 1.4 | | | , , | |
| Melaka | 240 | 179 | 4.0 | | 4.1 | (3.5,4.7) | 0.8 | | | 0.1 | 1.4 | (1.1,1.8) | 0.1 |
| | 195 | 143 | 7.2 | 0.8 | 7.2 | (6.1,8.4) | | 52 | 2.6 | 0.3 | 2.5 | (1.8,3.2) | 0.3 |
| Kedah | 185 | 138 | 2.9 | 0.3 | 2.9 | (2.4,3.4) | 0.3 | 47 | 1.0 | 0.1 | 1.0 | (0.7,1.2) | 0.1 |
| Pahang | 175 | 129 | 3.4 | 0.4 | 3.8 | (3.1,4.4) | 0.4 | 46 | 1.3 | 0.2 | 1.4 | (1.0,1.8) | 0.2 |
| N. Sembilan | 146 | 108 | 4.3 | 0.5 | 4.3 | (3.5,5.2) | 0.5 | 38 | 1.6 | 0.2 | 1.5 | (1.0,2.0) | 0.2 |
| Kelantan | 105 | 72 | 1.8 | 0.2 | 2.1 | (1.6, 2.6) | 0.2 | 33 | 8.0 | 0.1 | 8.0 | (0.6, 1.1) | 0.1 |
| Terengganu | 77 | 50 | 1.8 | 0.3 | 2.2 | (1.6, 2.9) | 0.3 | 27 | 1.0 | 0.1 | 1.2 | (0.7, 1.6) | 0.1 |
| Perlis | 18 | 10 | 1.7 | 0.2 | 1.7 | (0.6, 2.7) | 0.2 | 8 | 1.3 | 0.1 | 1.3 | (0.4, 2.2) | 0.1 |
| W.P. Labuan | 8 | 4 | 1.9 | 0.2 | 2.3 | (0.0,4.5) | 0.2 | 4 | 2.0 | 0.3 | 2.8 | (0.1,5.6) | 0.3 |
| 6. Leukaemia | | | | | | | | | | | | | |
| Johor | 659 | 387 | 4.8 | 0.4 | 5.0 | (4.5,5.5) | 0.4 | 272 | 3.6 | 0.3 | 3.7 | (3.3,4.2) | 0.3 |
| Selangor | 476 | 270 | 2.0 | 0.2 | 2.3 | (2.0,2.6) | 0.4 | 206 | 1.6 | 0.2 | 1.8 | (1.6,2.1) | 0.3 |
| Sabah | | | | | | | | | | | | | |
| | 402 | 222 | 3.5 | 0.4 | 4.1 | (3.5,4.6) | 0.4 | 180 | 2.9 | 0.3 | 3.5 | (3.0,4.1) | 0.3 |
| Perak | 382 | 198 | 3.4 | 0.3 | 3.4 | (2.9,3.9) | 0.3 | 184 | 3.2 | 0.3 | 3.5 | (3.0,4.0) | 0.3 |
| Penang | 360 | 196 | 5.2 | 0.5 | 5.4 | (4.6,6.2) | 0.5 | 164 | 4.3 | 0.4 | 4.4 | (3.7,5.1) | 0.4 |
| Sarawak | 329 | 182 | 2.9 | 0.2 | 3.1 | (2.6,3.6) | 0.2 | 147 | 2.5 | 0.2 | 2.7 | (2.2,3.1) | 0.2 |
| Kedah | 306 | 176 | 3.7 | 0.3 | 3.7 | (3.2,4.3) | 0.3 | 130 | 2.7 | 0.2 | 2.8 | (2.3,3.3) | 0.2 |
| Kelantan | 290 | 168 | 4.2 | 0.4 | 4.4 | (3.8,5.1) | 0.4 | 122 | 3.0 | 0.3 | 3.2 | (2.6, 3.8) | 0.3 |
| Terengganu | 253 | 151 | 5.6 | 0.6 | 6.1 | (5.1,7.2) | 0.6 | 102 | 3.9 | 0.4 | 4.1 | (3.3,4.9) | 0.4 |
| Melaka | 219 | 129 | 6.5 | 0.6 | 6.7 | (5.5, 7.9) | 0.6 | 90 | 4.5 | 0.4 | 4.6 | (3.6, 5.5) | 0.4 |
| WPKL&P | 215 | 116 | 2.6 | 0.3 | 2.9 | (2.4,3.5) | 0.3 | 99 | 2.3 | 0.2 | 2.6 | (2.1,3.1) | 0.2 |
| Pahang | 178 | 101 | 2.7 | 0.3 | 2.8 | (2.3,3.4) | 0.3 | 77 | 2.2 | 0.2 | 2.3 | (1.8,2.8) | 0.2 |
| N. Sembilan | 153 | 91 | 3.6 | 0.3 | 3.8 | (3.0,4.5) | 0.3 | 62 | 2.5 | 0.3 | 2.7 | (2.0,3.3) | 0.2 |
| | | 25 | 4.3 | 0.3 | 4.9 | (2.9,6.8) | 0.3 | 18 | 3.0 | 0.2 | 3.3 | (1.7,4.8) | 0.3 |
| Perlis | | | | | +.0 | | | | | | | | |
| Perlis W.P. Labuan | 43 8 | 2 | 1.0 | 0.1 | 1.0 | (-0.4,2.5) | 0.1 | 6 | 3.0 | 0.5 | 4.2 | (0.6,7.8) | 0.5 |

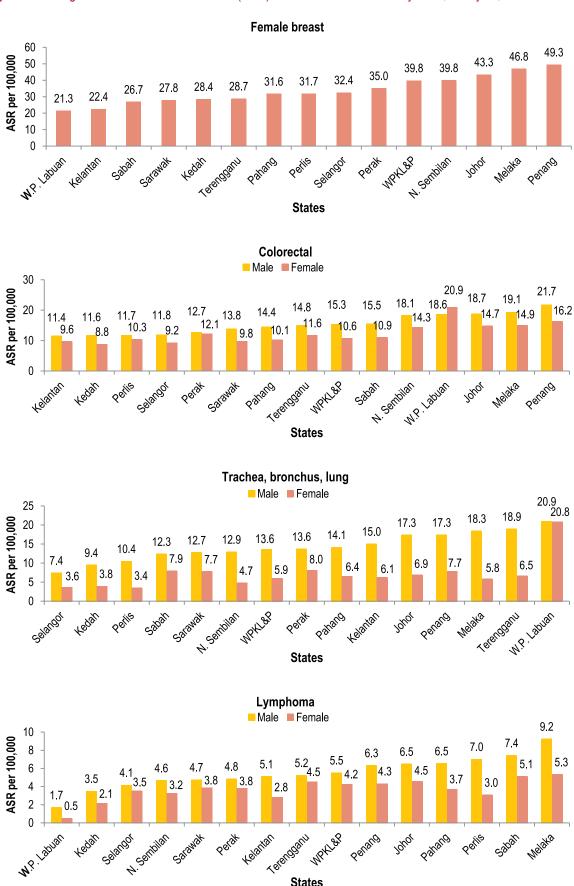
Appendix 12: Incidence summary table for 12 selected cancer sites by state and sex, Malaysia 2012-2016 (continue)

| State | Total | | | | MALE | | | | | | F | EMALE | | |
|----------------------|-------|-----|-----|------|------|-------------|------|------|-----------|-----|------|--------------------------------|-------------|------|
| Otato | Total | No. | CR | CR74 | ASR | (95% CL) | CumR | | No. | CR | CR74 | ASR | (95% CL) | CumF |
| 7. Liver | | | | | | | | | | | | | | |
| Johor | 594 | 440 | 5.4 | 0.7 | 6.0 | (5.4,6.5) | 0.7 | | 154 | 2.0 | 0.3 | 2.2 | (1.9,2.6) | 0.3 |
| Selangor | 515 | 395 | 3.0 | 0.5 | 4.1 | (3.6,4.5) | 0.5 | | 120 | 0.9 | 0.2 | 1.2 | (1.0,1.5) | 0. |
| Perak | 427 | 312 | 5.3 | 0.6 | 4.7 | (4.2,5.2) | 0.6 | | 115 | 2.0 | 0.2 | 2.1 | (1.7,2.5) | 0. |
| Sarawak | 328 | 232 | 3.8 | 0.5 | 4.1 | (3.6,4.6) | 0.5 | | 96 | 1.6 | 0.2 | 1.8 | (1.4,2.1) | 0. |
| Penang | 312 | 230 | 6.1 | 0.7 | 5.8 | (5.1,6.6) | 0.7 | | 82 | 2.2 | 0.2 | 2.0 | (1.6,2.5) | 0. |
| Pahang | 299 | 215 | 5.7 | 0.8 | 6.5 | (5.6,7.3) | 8.0 | | 84 | 2.4 | 0.3 | 2.6 | (2.1,3.2) | 0. |
| Kelantan | 266 | 199 | 4.9 | 0.7 | 6.0 | (5.2,6.9) | 0.7 | | 67 | 1.7 | 0.2 | 1.8 | (1.4,2.2) | 0. |
| Terengganu | 259 | 178 | 6.5 | 1.0 | 8.4 | (7.2,9.7) | 1.0 | | 81 | 3.1 | 0.5 | 3.9 | (3.0,4.7) | 0. |
| Sabah | 251 | 183 | 2.9 | 0.6 | 4.6 | (3.9,5.2) | 0.6 | | 68 | 1.1 | 0.2 | 1.7 | (1.3,2.2) | 0. |
| Kedah | 206 | 125 | 2.6 | 0.3 | 2.7 | (2.2,3.2) | 0.3 | | 81 | 1.7 | 0.2 | 1.7 | (1.3,2.1) | 0. |
| N. Sembilan | 190 | 148 | 5.9 | 0.8 | 6.1 | (5.1,7.1) | 0.7 | | 42 | 1.7 | 0.2 | 1.7 | (1.2,2.2) | 0. |
| Melaka | 189 | 145 | 7.3 | 0.9 | 7.4 | (6.2,8.7) | 0.9 | | 44 | 2.2 | 0.3 | 2.1 | (1.5,2.7) | 0. |
| WPKL&P | 157 | 117 | 2.6 | 0.4 | 3.0 | (2.5,3.6) | 0.4 | | 40 | 0.9 | 0.1 | 1.1 | (0.8,1.5) | 0. |
| Perlis | 34 | 26 | 4.5 | 0.6 | 4.5 | (2.8,6.2) | 0.6 | | 8 | 1.3 | 0.1 | 1.2 | (0.4,2.1) | 0. |
| W.P. Labuan | 6 | 4 | 1.9 | 0.0 | 12.8 | (-0.9,26.5) | 0.2 | | 2 | 1.0 | 0.1 | 4.7 | (-3.2,12.7) | 0. |
| VV.II . Labaaii | O | 7 | 1.3 | 0.2 | 12.0 | (-0.9,20.3) | 0.2 | | ۷ | 1.0 | 0.1 | 4.7 | (-0.2,12.1) | U |
| 8. Thyroid | | | | | | | | | | | | | | |
| Selangor | 433 | 134 | 1.0 | 0.1 | 1.1 | (0.9, 1.3) | 0.1 | | 299 | 2.3 | 0.3 | 2.5 | (2.2,2.8) | 0 |
| Johor | 397 | 94 | 1.2 | 0.2 | 1.2 | (1.0, 1.5) | 0.2 | | 303 | 4.0 | 0.4 | 3.9 | (3.5,4.4) | 0 |
| Kelantan | 290 | 69 | 1.7 | 0.3 | 2.1 | (1.6,2.7) | 0.3 | | 221 | 5.5 | 0.6 | 5.9 | (5.1,6.6) | 0 |
| Sabah | 264 | 54 | 0.9 | 0.1 | 1.2 | (0.9,1.5) | 0.1 | | 210 | 3.4 | 0.5 | 4.4 | (3.8,5.0) | 0 |
| Perak | 217 | 58 | 1.0 | 0.1 | 0.9 | (0.7, 1.1) | 0.1 | | 159 | 2.8 | 0.2 | 2.6 | (2.2,3.1) | 0 |
| Penang | 209 | 55 | 1.5 | 0.2 | 1.3 | (1.0,1.7) | 0.2 | | 154 | 4.1 | 0.4 | 3.6 | (3.0,4.2) | 0 |
| W.P. KL&P | 208 | 68 | 1.5 | 0.2 | 1.6 | (1.2,2.0) | 0.2 | | 140 | 3.2 | 0.3 | 3.2 | (2.7,3.8) | 0 |
| Terengganu | 157 | 29 | 1.1 | 0.2 | 1.4 | (0.9, 1.9) | 0.2 | | 128 | 4.9 | 0.6 | 5.5 | (4.6,6.5) | 0 |
| Kedah | 157 | 41 | 0.9 | 0.1 | 0.9 | (0.6,1.2) | 0.1 | | 116 | 2.4 | 0.2 | 0.3 | (1.9,2.7) | 0 |
| Pahang | 145 | 31 | 0.8 | 0.1 | 0.9 | (0.6,1.2) | 0.1 | | 114 | 3.2 | 0.3 | 3.3 | (2.7,4.0) | 0. |
| Sarawak | 136 | 34 | 0.6 | 0.1 | 0.6 | (0.4,0.7) | 0.1 | | 102 | 1.7 | 0.2 | 1.7 | (1.4,2.1) | 0. |
| Melaka | 135 | 36 | 1.8 | 0.2 | 1.9 | (1.2,2.5) | 0.2 | | 99 | 4.9 | 0.4 | 4.6 | (3.7,5.5) | 0. |
| N. Sembilan | 97 | 30 | 1.2 | 0.2 | 1.3 | (0.8,1.7) | 0.2 | | 67 | 2.7 | 0.3 | 2.6 | (2.0,3.2) | 0. |
| Perlis | 36 | 13 | 2.3 | 0.2 | 2.1 | (0.9,3.2) | 0.2 | | 23 | 3.8 | 0.4 | 3.8 | (2.2,5.3) | 0. |
| W.P. Labuan | 5 | 3 | 1.5 | 0.4 | 2.8 | (-0.6,6.3) | 0.4 | | 2 | 1.0 | 0.1 | 1.0 | (-0.4,2.4) | 0. |
| | | | | | | | | MAL | r | | | | | |
| State | | | - | No. | | CR | CR74 | MALI | E AS | R | (! | 95% CL) | | Cuml |
|). Prostate | | | | | | | | | | | | | | |
| Johor | | | | 519 | | 6.4 | 1.1 | | 7. | 6 | | (7.0,8.3) | | 1. |
| Selangor | | | | 474 | | 3.6 | 0.8 | | 6. | | | (7.0,6.5) (5.4,6.5) | | 0 |
| Perak | | | | 427 | | 7.3 | 0.8 | | 6. | | | (5.6,6.8) | | 0 |
| Penang | | | | 419 | | 11.1 | 1.6 | | 11. | | |).2,12.3) | | 1 |
| Sarawak | | | | 411 | | 6.6 | 1.1 | | 7. | | | (6.9,8.4) | | 1 |
| WPKL&P | | | | 343 | | 7.6 | 1.5 | | 10. | | | 9.3,11.6) | | 1 |
| Kedah | | | | 299 | | 6.2 | 1.0 | | 7. | | | (6.2,7.7) | | |
| Sabah | | | | 265 | | 4.2 | 1.0 | | 7. | | | (6.2,7.7) (6.8,8.7) | | 1 |
| Pahang | | | | 257 | | 6.8 | 1.1 | | 8. | | | (0.0,6. <i>1)</i> (7.4,5.0) | | 1 |
| Melaka | | | | 229 | | | 1.1 | | o. 12. | | | | | 1 |
| Kelantan | | | | | | 11.5 | | | | | |).7,13.9) (5.6.7.4) | | 1 |
| | | | | 200 | | 5.0 | 0.9 | | 6. | | | (5.6,7.4) | | 0 |
| N. Sembilan | | | | 183 | | 7.3 | 1.1 | | 8. | | | (7.0,9.3) | | 1 |
| Terengganu Perlis | | | | 121 | | 4.5 | 0.9 | | 6. | | | (5.3,7.7) | | 0 |
| ≃e⊓is | | | | 37 | | 6.4 | 0.7 | | 6. | .U | | (4.1, 8.0) | | 0 |
| N.P. Labuan | | | | 5 | | 2.4 | 0.7 | | 7. | ^ | | 1.2,15.8) | | 0 |

Appendix 12: Incidence summary table for 12 selected cancer sites by state and sex, Malaysia 2012-2016 (continue)

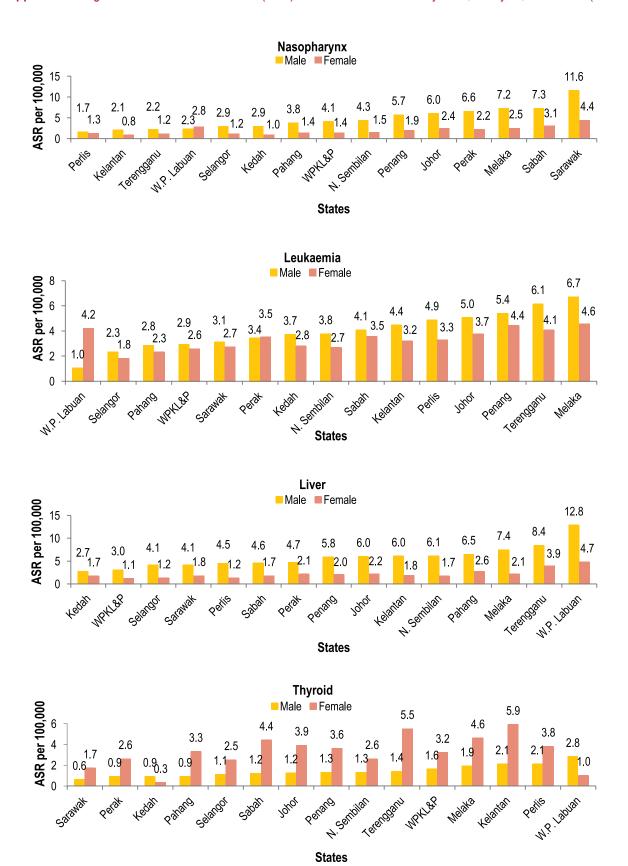
| | | | FEM | ALE | | |
|------------------|-----|-----|------|------------|-------------|------|
| State | No. | CR | CR74 | ASR | (95% CL) | CumF |
| 10. Cervix Uteri | | | | | | |
| Sarawak | 575 | 9.6 | 1.1 | 10.0 | (9.2,10.8) | 1.1 |
| Sabah | 570 | 9.3 | 1.4 | 12.6 | (11.5,13.6) | 1.4 |
| Johor | 501 | 6.5 | 0.7 | 6.6 | (6.0,7.2) | 0. |
| Selangor | 447 | 3.5 | 0.5 | 4.1 | (3.7,4.5) | 0. |
| Perak | 310 | 5.4 | 0.5 | 5.4 | (4.8,6.1) | 0. |
| Penang | 307 | 8.1 | 0.9 | 7.2 | (6.4,8.0) | 0. |
| Kedah | 227 | 4.7 | 0.5 | 4.6 | (4.0,5.2) | 0. |
| Pahang | 208 | 5.9 | 0.7 | 6.3 | (5.5,7.2) | 0. |
| WPKL&P | 179 | 4.1 | 0.5 | 4.3 | (3.7,4.9) | 0. |
| Kelantan | 178 | 4.4 | 0.5 | 4.7 | (4.0,5.5) | 0. |
| N. Sembilan | 176 | 7.2 | 0.8 | 7.0 | (6.0,8.1) | |
| Melaka | 142 | 7.0 | 0.8 | 6.8 | | 0. |
| Terengganu | | | | | (5.7,7.9) | 0. |
| | 100 | 3.8 | 0.5 | 4.5 | (3.6,5.3) | 0. |
| Perlis | 51 | 8.5 | 1.0 | 8.0 | (5.8,10.2) | 1. |
| W.P. Labuan | 10 | 5.0 | 0.7 | 6.8 | (2.5,11.1) | 0. |
| 11. Ovary | | | | | | |
| Johor | 505 | 6.6 | 0.7 | 6.6 | (6.1,7.2) | 0. |
| Selangor | 496 | 3.9 | 0.5 | 4.5 | (4.1,4.9) | 0. |
| Perak | 343 | 6.0 | 0.6 | 4.3 5.7 | (5.0,6.3) | |
| Penang | | | | | | 0. |
| | 314 | 8.3 | 0.8 | 7.4 | (6.6,8.3) | 0. |
| Sarawak | 285 | 4.8 | 0.5 | 4.9 | (4.4,5.5) | 0. |
| Kelantan | 248 | 6.2 | 0.7 | 6.5 | (5.7,7.4) | 0. |
| Sabah | 229 | 3.7 | 0.5 | 4.9 | (4.2,5.6) | 0. |
| Kedah | 219 | 4.6 | 0.5 | 4.4 | (3.8,5.0) | 0. |
| WPKL&P - | 197 | 4.5 | 0.5 | 4.6 | (4.0,5.3) | 0. |
| Terengganu | 181 | 6.9 | 0.8 | 7.8 | (6.6, 8.9) | 0. |
| N. Sembilan | 175 | 7.2 | 0.7 | 6.8 | (5.8,7.8) | 0. |
| Pahang | 172 | 4.9 | 0.5 | 5.1 | (4.3,5.8) | 0. |
| Melaka | 167 | 8.3 | 0.9 | 7.9 | (6.7,9.1) | 0. |
| Perlis | 41 | 6.8 | 0.7 | 6.6 | (4.5,8.7) | 0. |
| W.P. Labuan | 3 | 1.5 | 0.4 | 2.7 | (-0.4,5.8) | 0. |
| 12. Corpus Uteri | | | | | | |
| Johor | 482 | 6.3 | 0.8 | 6.5 | /5 Q 7 1\ | ^ |
| Selangor | | | | | (5.9,7.1) | 0.0 |
| | 375 | 2.9 | 0.5 | 3.6 | (3.2,4.0) | 0. |
| Perak | 299 | 5.2 | 0.5 | 4.8 | (4.3,5.4) | 0. |
| Sarawak | 275 | 4.6 | 0.6 | 4.9 | (4.4,5.5) | 0. |
| Penang | 229 | 6.0 | 0.6 | 5.4 | (4.7,6.1) | 0. |
| N.P. KL&P | 209 | 4.8 | 0.7 | 5.4 | (4.7,6.2) | 0. |
| Sabah | 190 | 3.1 | 0.5 | 4.2 | (3.6,4.9) | 0. |
| Kedah | 172 | 3.6 | 0.4 | 3.5 | (3.0,4.1) | 0. |
| Melaka | 155 | 7.7 | 0.8 | 7.3 | (6.2,8.5) | 0. |
| Pahang | 145 | 4.1 | 0.5 | 4.3 | (3.6,5.1) | 0. |
| Kelantan | 135 | 3.4 | 0.4 | 3.7 | (3.0,4.3) | 0. |
| N. Sembilan | 108 | 4.4 | 0.5 | 4.3 | (3.4,5.1) | 0. |
| Terengganu | 91 | 3.5 | 0.5 | 4.1 | (3.3,5.0) | 0. |
| Perlis | 30 | 5.0 | 0.5 | 4.1 | (3.1,6.6) | 0. |
| W.P. Labuan | 3 | | | | | |
| 77.1 . Labuall | 3 | 1.5 | 0.2 | 2.0 | (-0.3,4.2) | 0. |

Appendix 13: Age-standardised incidence rate (ASR) for 12 selected cancers by state, Malaysia, 2012-2016

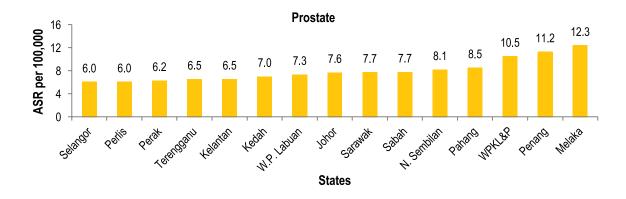


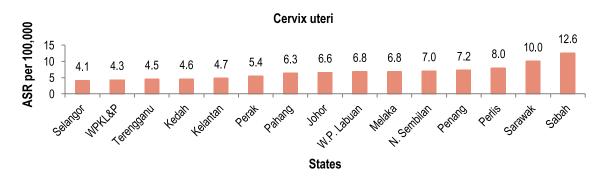
States

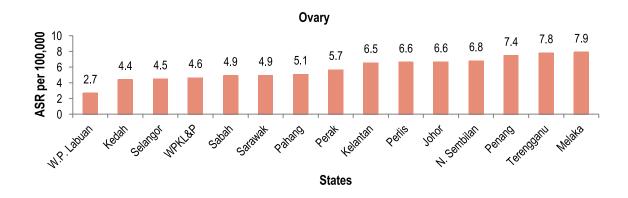
Appendix 13: Age-standardised incidence rate (ASR) for 12 selected cancers by state, Malaysia, 2012-2016 (continue)

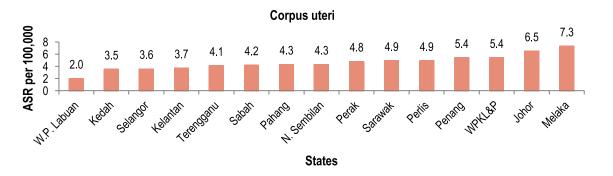


Appendix 13: Age-standardised incidence rate (ASR) for 12 selected cancers by state, Malaysia, 2012-2016 (continue)









| CD (10th) | 000 001-02 003-06 001-02 01-02 01-02 01-02 01-02 01-02 01-02 01-02 01-02 01-02 01-02 01-02 01-02 01-02 01-02 01-02 01-02 01-02 01-02 02 03 03 03 03 03 03 03 03 03 03 03 03 03 |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|) (%) | 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 75+ | 20 |
| -02 | 24 + 4 + 4 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + |
| 65- | 8 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| -09 | 4 L 8 4 8 0 2 8 2 8 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| 55- | 462 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |
| -09 | - 85 45 85 85 85 85 85 85 85 85 85 85 85 85 85 |
| 45- | - 8 9 4 × + 7 5 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| 40- | 04 + 5 |
| 35- | 025800840880451-4514516515175008514-7-80-80-1989485052440-8 4 |
| 30- | 087680E-48788088888655887588750800888888758888 |
| 25- | 0 to 10 to 1 |
| 20- | 0 0 1 1 1 0 1 2 1 1 1 1 1 1 1 1 1 1 1 1 |
| 15- | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| -01 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| ጥ | 00000000000000000000000000000000000000 |
| 9 | 00000000000000000000000000000000000000 |
| AGE | |
| ALL | 27 293 3959 132 400 400 132 432 432 432 432 432 432 432 4 |
| | |
| SITE | Lip Tongue Mouth Mouth Saliva glands Tongue Mouth Nasopharymx Masophagus Tonisi Other oropharymx Hyoppharymx Hyoppharymx Hyoppharymx Hyoppharymx Hyoppharymx Hyoppharymx Hyoppharymx Hyopharymx Hyopharymx Hyopharymx Masoriae Colon Rectum Anus Colon Rectum Anus Liver Gallibladder etc. Parroeas Nose, sinuses etc. Parroeas Nose, sinuses etc. Parroeas Mose, sinuses etc. Parroeas Mose, sinuses etc. Parroeas Mose, sinuses etc. Parroeas Mose, sinuses etc. Larym Trachea, bronchus and lung Other thoracic organs Mesoriae Most sacroma Connective and soft tissue Breast Prostate Connective and soft tissue Breast Prostate Breast Prostate Breast Prostate Grand Connective and Strike Bradder Other uninary organs Kidney Renal pelvis Ureter Bladder Other uninary organs Kidney Renal gland Other uninary organs Cother and coline and United Bradder Other Industrial and United Bradder Myeloproliferative discases Multiple myelomes Christoproliferative discased Myeloproliferative discased Myeloproliferative discased All sites |

| ICD (10th) | 000 003-66 007-68 007-68 007-68 007-73 007-73 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-74 008-7 |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ASR | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| CUM 0-74 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| CUM 0-64 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| (%) | 0.00 |
| CRUDE | 000 000 000 000 000 000 000 000 000 00 |
| 75+ | 0.3 1.5 1.6 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 |
| -02 | 20 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| 65- | \$4 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 |
| -09 | 0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| -52- | 22 |
| -09 | 0 2 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 45- | 0 4 7 6 8 9 8 7 4 9 8 4 8 8 4 5 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| 40- | 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - |
| 35- | 33.00 |
| 30- | 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 25- | 0.000 |
| 20- | 0.000000000000000000000000000000000000 |
| 15- | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 10- | 00000000000000000000000000000000000000 |
| φ | |
| 0 | 00000000000000000000000000000000000000 |
| AGE | 00000000000000000000000000000000000000 |
| ALL | 27 400 400 400 400 400 400 400 40 |
| SITE | Lip Tongue Mouth Salivary glands Tonsil Other oropharynx Nasopharynx Hypopharynx Hypophary |

Appendix 15: Cancer incidence by site and age group, all residents, males, Malaysia 2012-2016

Appendix 16: Number of new cancer cases by site and age group, all residents, females, Malaysia, 2012-2016

| ICD (10th) | C00 C01-02 C03-66 C03-66 C03-66 C11 C12-13 C13-13 C14-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15-13 C15- |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (%) | 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 75+ | 54 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |
| -02 | 0 4 4 4 5 0 0 0 8 5 5 2 4 4 8 5 5 6 4 0 0 0 8 8 5 5 6 4 5 5 0 0 0 5 0 0 8 5 5 6 7 5 6 8 6 5 6 7 5 6 8 6 6 7 5 6 8 6 7 5 6 8 6 7 5 6 8 6 7 5 6 8 6 7 5 6 8 6 7 5 6 8 6 7 5 6 8 6 7 5 6 8 6 7 5 6 8 6 7 5 6 8 6 7 5 6 8 6 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 8 7 5 6 7 5 6 8 7 5 6 8 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 |
| -59 | 755 |
| -09 | 8 2 5 8 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| -52- | 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| -09 | 88 2 3 3 3 4 4 4 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| 45- | 24 4 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |
| 40- | - 8 - 5 - 6 - 7 - 5 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 |
| 35- | 288 88 88 88 88 88 88 88 88 88 88 88 88 |
| 30- | 0 22 e |
| 25- | 0 |
| 20- | |
| 7 | 0 4 - 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 10- | - 0 - 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| rγ | 3 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| -0 | |
| AGE | |
| ALL | 5.5 47.2 47.2 6.2 7.3 7.3 7.3 7.1 1.18 8.2 1.08 7.1 1.12 1.12 1.13 1.13 1.13 1.13 1.13 1. |
| SITE | Lip Tongue Mouth Mouth Wasophanyx Phanyx glands Tonsi Other crophanyx Phanyx unspecified Oesophagus Stomach Small intestine Colon Rectum Anus Liver Gollon Rectum Anus Liver Gollon Rectum Anus Liver Colon Rectum Anus Liver Colon Rectum Anus Liver Colon Rectum Anus Liver Colon Rectum Anus Liver Rectum Anus Liver Colon Rectum Anus Liver Colon Rectum Anus Liver Colon Colon Rectum Anus Liver Rectum Anus Liver Colon |

| ICD (10th) | 000 001-02 007-08 007-08 007-08 007-08 007-08 007-08 007-08 007-08 008 008 008 008 008 008 008 008 008 |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ASR | 00000000000000000000000000000000000000 |
| CUM 0-74 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| CUM 0-64 | 0 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| (%) | 00000000000000000000000000000000000000 |
| CRUDE | 0.08 0.71 0.71 0.71 0.71 0.71 0.71 0.71 0.71 |
| 75+ | $\begin{array}{c} -44\\ -46\\ -46\\ -46\\ -46\\ -46\\ -46\\ -46\\$ |
| -02 | 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 |
| 65- | 28. 28. 29. 29. 29. 29. 29. 29. 29. 29. 29. 29 |
| -09 | 225 |
| -52- | 223 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| -09 | 101 102 103 103 104 104 105 107 107 108 109 109 109 109 109 109 109 109 109 109 |
| 45- | |
| 40- | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 35- | 0 8 8 8 9 9 9 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 |
| 30- | 0 4 6 6 6 0 0 6 6 6 6 6 6 6 6 6 6 6 6 6 |
| 25- | 0.000000000000000000000000000000000000 |
| 20- | 0.000000000000000000000000000000000000 |
| 15- | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 10- | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| φ. | 00000000000000000000000000000000000000 |
| -0 | 0000000000004001:0000000000000000000000 |
| AGE | 。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。 |
| ALL | 55 464 472 464 62 62 62 62 62 63 73 73 73 73 73 73 73 74 88 82 163 163 178 88 163 178 188 163 178 188 163 178 178 178 178 178 178 178 178 178 178 |
| SITE | Lip Tongue Mouth Salivary glands Tongue Mouth Salivary glands Tonsi Tongue Mother complanyixx Hypopharyixx Hypopharyix Hy |

Appendix 17: Cancer incidence by site and age group, all residents, females, Malaysia 2012-2016

Appendix 18: Number of new cancer cases by site and age group, Malay males, Malaysia, 2012-2016

| ICD (10th) | 00 00 00 00 00 00 00 00 00 00 00 00 00 | O&U ALL |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| (%) | 0 8 8 9 9 9 9 4 4 6 6 8 8 8 8 9 4 9 5 5 5 5 5 8 9 8 8 8 8 8 8 8 8 8 8 8 8 | 2.4 102.9 |
| 75+ | 4 5 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 2342 |
| -02 | ~ • 5 • 6 • 6 • 6 • 6 • 6 • 6 • 6 • 6 • 6 | 42 2148 |
| 65- | 08414489-14898275480088552881081788-880-4417877988884110 | 74 2936 |
| -09 | - 0 2 3 4 8 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 62 2987 |
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| 50- | - 0 8 5 5 5 6 5 7 0 5 7 4 6 8 8 8 7 5 8 8 4 ± 5 5 6 5 8 6 8 8 8 7 5 5 5 5 6 5 8 6 8 8 7 7 8 8 5 7 8 8 5 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 | 71 2230 |
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| 30- | 040010810828889471746889770070001058008200 | 94 930 |
| 25- | 05-0-0205-2800-00-255000040800000088-458-0545-0 | 14 592 |
| 20- | 0@11012111400000000000000000000000000000 | 10 512 |
| <u>4</u> | 001-4005000-0-00000000000000000000000000 | 44 5 |
| -01 | 000000000000000000000000000000000000000 | 31 2 |
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| AGE | 000000000000000000000000000000000000000 | o o |
| ALL | 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 518 21841 |
| SITE | Lip Tongue Mouth Salivary glands Tonsil Other oropharynx Nasopharynx Nasopharynx Nasopharynx Pharynx unspecified Oesophagus Stomach Small intestine Colon Rectum Anus Liver Gallbadder etc. Pancreas Nose, sinuses etc. Larynx Trachea, bronchus and lung Other thoracic organs Bone Melanoma of skin Other kin Mesothelioma Kaposi sarcoma Connective and soft tissue Breast Breast Peasts Peasts Peasts Connective and soft tissue Breast Peasts Peast | Other and unspecified All sites |

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000 003-06 004-06 007-06 007-06 007-07 007-07 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-08 008-0 ICD (10th) ASR **CUM 0-74** CUM 0-64 (%) 75+ $\begin{array}{c} \textbf{4.0.} & \textbf{6.0.} \\ \textbf{6.0.} & \textbf{6.0.} \\$ 9 65-9 9 30-25-20-5 AGE ALL GES Hodgkin disease Non-Hodgkin lymphoma Immunoproliferative diseases Larynx Trachea, bronchus and lung Other skin Mesothelioma Kaposi sarcoma Connective and soft tissue Other male genital organs Other oropharynx Nasopharynx Hypopharynx Pharynx unspecified Oesophagus Eye Brain, nervous system Other and unspecified Other thoracic organs ymphoid leukaemia Other urinary organs lyeloid leukaemia Pancreas Nose, sinuses etc. **Aultiple** myeloma Melanoma of skin Lip Tongue Mouth Salivary glands Tonsil Small intestine Colon Rectum Liver Gallbladder etc. Other endocrine Adrenal gland Prostate

Appendix 19: Cancer incidence by site and age group, Malay males, Malaysia 2012-2016

Appendix 20: Number of new cancer cases by site and age group, Malay females, Malaysia, 2012-2016

| ICD (10th) | C00 C01-02 C03-06 C03-0 |
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| -02 | - 8 5 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
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| -09 | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |
| -55- | 0.00 |
| -09 | 20 |
| 45- | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 40- | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 35- | - £ £ £ 6 + 0 8 6 7 0 4 4 5 8 8 8 8 8 8 8 8 8 9 8 9 8 9 9 4 7 5 5 5 6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 |
| 30- | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 25- | 88 88 87 87 87 88 88 87 87 88 87 87 87 8 |
| -02 | -4-0-0-0-0-1-1-0-4-0-4-0-1-1-1-1-1-1-1-1 |
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| 10- | 7 1000000000000000000000000000000000000 |
| φ | 00000000000000000000000000000000000000 |
| -6 | |
| AGE UNK | |
| ALL AGES | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |
| A AG | |
| SITE | Lip Tongue Mouth Salivary glands Tongue Mouth Salivary glands Tonsil Other oropharynx Nasopharynx Hypopharynx Hypopharynx Hypopharynx Hypopharynx unspecified Ceolon Small intestine Colon Rectum Anus Liver Gallbadder etc. Pancreas Nose, sinuses etc. Larynx Tardrea, bronchus and lung Other thoraci organs Bone Melanoma of Skin Other Skin Weston Strand Liver Skin Other |

| ICD (10th) | 000 000,488 009,488 009,488 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 014,413 01 |
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| ASR | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| CUM 0-74 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| CUM 0-64 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| (%) | 0 0 4 4 4 - 0 0 0 0 0 4 0 0 0 0 0 0 0 0 |
| CRUDE | 0.09 0.09 0.03 0.03 0.03 0.03 0.03 0.03 |
| 75+ | 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| -02 | 28.2 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 3.6 4.2 4.2 4.3 5.3 6.4 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7 |
| 65- | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| -09 | 4.1.1.3.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4. |
| 55- | 0 |
| -20- | 23.83 23.83 23.83 24.83 24.83 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 25.84 |
| 45- | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
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| AGE | |
| ALL | 146 103 103 104 104 105 106 106 107 108 108 108 108 108 108 108 108 108 108 |
| SITE | Lip Mouth Salvay glands Jonsti Ontel Onsi worth Salvay glands Jonsti Other oropharynx Nasopharynx Hypopharynx Anus Liver Galbladder etc. Pancreas Nose, sinuses etc. Laryn, sinuses etc. Comective and soft tissue Breast Wagina Comective and soft tissue Breast Wagina Comective and soft tissue Breast Wagina Corpus utei Unerter Brand pelvis Ureter Corpus utei Ureter Brand pelvis Ureter Myelodi leukæemia Lymphold leukæemia Myeloid leukæemia Ureter Myelodysplastic syndromes Other end urspecified All sites |

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Appendix 21: Cancer incidence by site and age group, Malay females, Malaysia 2012-2016

| Access A | No. 1 | Appendix 22: Number of new cancer cases by site a | new can | icer cas | ses by s | site and | age g | group, C | Chinese | e males, | Malaysia, 2 | 2012-20 |)16 | | | | | | | |
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| 28.8 2 | The control of the | | ALL | AGE | 9 | ι¢ | 10- | | | | | | -09 | 55. | -09 | -62- | -02 | 75+ | (%) | ICD (10th) |
| The color of the | The color of the | | 15 | 0 0 | 0 6 | 0 0 | 0 0 | | | | | | | | | | 2 5 | 0 3 | 0.1 | 000 |
| ## 15 15 15 15 15 15 15 15 | Secondary Color Secondary | | 202 138 | 00 | 0 | 00 | o | | | | | | | | | | 18 22 | 2,4 | T.0 | C01-02 C03-06 |
| 10 10 10 10 10 10 10 10 | No. 10 | | 8 % | 00 | 0 0 | ← ⊂ | 00 | | | | | | | | | | £ 4 | ∠ ‡ | 0.5 | C07-08 |
| 74.8 | Track | | 8 8 | 0 | 0 | 0 | 0 | | | | | | | | | | 9 | - 4 | 0.2 | C10 |
| ## 15 15 15 15 15 15 15 15 | The color of the | | 1748 | 0 | 0 | 0 | 4 | | | | | | | | | | 84 | 09 | 8.5 | C11 |
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| 14 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 </td <td>14 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 1 0 3 0 3 12 8 10 15 540 0 4 0 0 0 0 1 1 0 3 3 3 12 8 10 15 540 0 4 0 0 2 1 7 11 12 22 36 49 68 71 86 78 93 21385 0 97 59 94 119 149 179 300 513 761 1265 1851 2479 3168 3343 3175 3833 1</td> <td></td> <td>75</td> <td>0</td> <td>· ∞</td> <td>. ო</td> <td>i @</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>i ~</td> <td>9</td> <td>0.4</td> <td>C95</td> | 14 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 1 0 3 0 3 12 8 10 15 540 0 4 0 0 0 0 1 1 0 3 3 3 12 8 10 15 540 0 4 0 0 2 1 7 11 12 22 36 49 68 71 86 78 93 21385 0 97 59 94 119 149 179 300 513 761 1265 1851 2479 3168 3343 3175 3833 1 | | 75 | 0 | · ∞ | . ო | i @ | | | | | | | | | | i ~ | 9 | 0.4 | C95 |
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| (%) | 0 00088001400 |
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| ppendix 24: Number of new cancer cases by site an | ALL AC AGES U | Lip 12 12 12 12 12 12 12 1 |
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| 2012-201 | 45- | 0 8 8 6 0 0 4 4 0 9 8 6 0 6 11 15 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 9 | -09 | 0541708801-481-751-2828044748015501-6501-67475000000000000000088800000000000000000 |
| | -55- | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
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| | ICD (10th) | 000 003-66 007-08 007-08 007-08 014 014 015 015 016 017 017 017 018 019 023-24 023-24 024 024 025 025 027 027 028 029 029 029 029 029 029 029 029 |

| ICD (10th) | CO00 CO1-02 CO1-02 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 CO3-06 |
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| CUM 0-74 | 1,223 |
| CUM 0-64 | 7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. |
| (%) | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| CRUDE | 0.08 0.08 0.046 0.046 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.04 |
| 75+ | 0. 48. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. |
| -02 | \$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| 65- | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| -09 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| -55- | 0 |
| -09 | 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + |
| 45- | 00.07.00.07.00.00.00.00.00.00.00.00.00.0 |
| 40- | 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 35- | 20000000000000000000000000000000000000 |
| 30- | 0.00 0 4.0 0 0 0.00 0.00 0.00 0.00 0.00 |
| 25- | 00000040000000000000000000000000000000 |
| 50- | 090920800290900909000809004200900800200200840094009 |
| 15- | 0.0000000000000000000000000000000000000 |
| 10- | 00 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 5- | |
| -0 | 00000000000000000000000000000000000000 |
| AGE | 000000000000000000000000000000000000000 |
| ALL | 22 |
| SITE | Lip Nouth Salvary glands Tonsi Over oropharynx Nasopharynx Nasopharynx Hypopharynx Hypopha |

Appendix 25: Cancer incidence by site and age group, Chinese females, Malaysia 2012-2016

Appendix 26: Number of new cancer cases by site and age group, Indian males, Malaysia, 2012-2016

| ICD (10th) | CONTRACTOR |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (%) | 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| 75+ | 087-1005-1205-1205-1205-1205-1205-1205-1205 |
| -02 | 0400 |
| 65- | - £48-004015888-1584058-1-08008-184051-050084-0-50100004 8 |
| -09 | ο ε το ε α α α α α α α α α α α α α α α α α α |
| 55- | 0 \$ \$ \$ 0 \$ \$ 0 \$ \$ 4 \$ 6 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
| -09 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 45- | 000000000000000000000000000000000000000 |
| 40- | 0 @ w 01 - 0 - 1 - 0 w 01 0 0 0 4 - 1 - 1 w 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 35- | 01101-0-00000-10000-000000000000000000 |
| 30- | 0-0000-000@0ww000w00-004000w0@0000 |
| 25- | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 20- | 00000000000000000000000000000000000000 |
| 15- | 00-000-00000-000000-000000000000000000 |
| 10- | 00000000000000000000000000000000000000 |
| φ. | |
| -0 | |
| AGE | 。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。 |
| ALL | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| SITE | Lip Tongue Mouth Salivary glands Tonsii Other orropharymx Nasopharymx Nasopharymx Phapymx unspecified Oesophagus Stomach Stomach Small intestine Colon Anus Liver Gallbladder etc. Partera Gallbladder etc. Partera Callbladder etc. Partera Callbladder etc. Partera Callbladder etc. Partera Noes, sinuses etc. Larymx Horacic organs Bone Melanoma of skin Other thoracic organs Bone Melanoma of skin Other thoracic organs Bone Melanoma of skin Other skin Mesotheliona Kaposi sarcoma Connective and soft lissue Breast Penis Prostate Traches and soft lissue Breast Melanoma of skin Other uniany organs Erests Ureter Tests Other uniany organs Erests Ureter Jumphoid leukaemia Lymphoid leukaemia Inmunopoolificative diseases Myelodoysplaskic syndromes Other and unspecified All sites |

| ICD (10th) | 000 004-02 007-08 009-06 009-06 009-06 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-02 001-0 |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ASR | 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| CUM 0-74 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| CUM 0-64 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| (%) | 0.000 |
| CRUDE | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 75+ | 7 1 2 2 3 3 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| -02 | 15.5 15.5 15.5 15.5 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 |
| -99 | 13.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + 1.4 + |
| -09 | 27.7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 55- | 0 11 8 8 11 9 9 1 |
| -09 | 80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 45- | 0 8 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 |
| 40- | 38 8 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 35- | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 30- | 00000000000000000000000000000000000000 |
| 25- | 04.04.00000000000000000000000000000000 |
| 20- | 00000000000000000000000000000000000000 |
| 15- | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 10- | 00000000000000000000000000000000000000 |
| ည် | 00000000000000000000000000000000000000 |
| -0 | 00000000000000000000000000000000000000 |
| AGE | 。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。 |
| ALL | 88 88 87 123 88 87 125 125 125 125 125 125 125 125 125 125 |
| SITE | Lip Mouth Salivary glands Tonsil Onesil Onespharymx Nasopharymx Naml intestine Colion Redtum Anus Live Gallbladder etc. Pancreas Neatum Anus Live Gallbladder etc. Pancreas Neatum Anus Sunder skin Melanoma of skin Other tkin Mesothelioma Kaposi sinuses etc. Larymx Trachea, bronchus and lung Other skin Melanoma of skin Melanoma Kaposi sarroma Connective and soft tissue Breast Penis Prostate Frest Raposi sarroma Connective and soft tissue Breast Penis Prostate Frest Bladder Cohne male genital organs Kidney Cohne male genital organs Kidney Remai Tryvoid Adrenal gland Cohner uniany organs Eye Brain, nervous system Tryvoid Adrenal gland Cohner endocrine Tryvoid Adrenal gland Cohner endocrine Myelopt ollerkeemia |

Appendix 27: Cancer incidence by site and age group, Indian males, Malaysia 2012-2016

Appendix 28: Number of new cancer cases by site and age group, Indian females, Malaysia, 2012-2016

| ICD (10th) | 000 003-6 004-6 007-08 007-08 0010 0112-13 012-13 012-13 013-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 023-24 0 |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (%) | 0 + 4 + 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 75+ | к р 8 4 ч 4 ч 8 4 ч р 8 ч р 8 ж - 4 б ч ч - г т о о ч р к ч 8 р г т б к о - 0 о о о о о о о о о о о о о о б 2 4 |
| 70- | - 820 |
| 65- | - 588 4 0 8 6 4 7 6 8 6 6 7 7 8 8 6 6 7 7 6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 |
| -09 | 7944 |
| -99 | € 6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 |
| -09 | 0 r |
| 45- | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 40- | 0488000890009900044+++10009885 88900000000000000000000000000000 |
| 35- | 0 w + + + 0 0 + 0 0 + 0 0 w 0 w 0 w 0 0 0 0 |
| 30- | 042000000000004 |
| 25- | 0-00-00-0000-00-00-00000000000000000-£000000 |
| 50- | 00000000000000000000000000000000000000 |
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Appendix 29: Cancer incidence by site and age group, Indian females, Malaysia 2012-2016

Appendix 30: Cancer notification form

| (Explanatory notes overlead) Cancer Regulary Unit Institut Karner Negate No. 4, Jalan P. Presint 7 6239 Putrajays Metalysia Metalysia Collaboration No. (Malaysian New I.C.) Name: Usual Residential Address: Postocide: Date of Infinity D D J M M / Y Y 2 Conness Age Wears 1 Malaysian Description of Malaysian D D J M M / Y Y 2 Conness Age Please specify D D J M M / Y Y 2 Conness Description of Malaysian D D J M M / Y Y 2 Conness Description of Malaysian D D J M M / Y Y 2 Conness Description of Malaysian D D J M M / Y Y 2 Conness D D J M M / Y Y 2 Conness D D J M M / Y Y 2 Conness D D D J M M / Y Y 2 Conness D D D J M M / Y Y 2 Conness D D D J M M / Y Y 2 Conness D D D J M M / Y Y 2 Conness D D D J M M / Y Y 2 Conness D D D J M M / Y Y 2 Conness D D D J M M / Y Y 2 Conness D D D J M M / Y Y 2 Conness D D D J M M / Y Y 2 Conness D D D J M M / Y Y 2 Conness D D D J M M / Y Y 2 Conness D D D J M M / Y Y 2 Conness D D D J M M / Y Y 2 Conness D D D J M M / Y Y 2 Conness D D D J M M / Y Y 2 Conness D D D J M M / Y Y 2 Conness D D D J M M / Y Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M M / Y Y Notified by: D D D J M | CANCER NOTIFICATION FORM | NCR 02 | REGISTRY COPY | |
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| No. 4, Jalan PT, Presint 7 62250 Pulralipsis Tel 10.38825555 Fac: 03-8825625 Tel 10.3882555 Fac: 03-8825625 Tel 10.388255 Fac: 03-8825625 Tel 10.388255 Fac: 03-8825625 Tel 10 | Cancer Registry Unit | | Case No. CR4: | |
| 1. Sportaneous 3. Other | Institut Kanser Negara | | Pending Confirmed | |
| Malaysia Tel: 03-88925555 Fax: 03-88925625 1. PATENT Identification No: [Malaysia Old I.C.Police/Am Force/Passport] Identification No: [Malaysia Old I.C.Police/Malaysia Old | No. 4, Jalan P7, Presint 7 | | Mode of notification | |
| Tret 0.38925555 Fax: 03-8925625 1.PATIENT Certification No: District: Sax: Citzranship: Sax Citzranship: Citzra | 62250 Putrajaya | | 1. Spontaneous 3. Other | |
| Color Colo | Malaysia | | 2. On request | |
| Mentification No: [Malaysian New LC] Malaysian New LC] Malaysian New LC] Malaysian Old LC. Polica/Arm Force/Passport] | Tel: 03-88925555 Fax: 03-88925625 | | | |
| Malaysian New I.C. Name: | 1. PATIENT | | | |
| Name: Usual Residential Address: Postocide: | Identification No: | Old I. | .C. No: | |
| Usual Residential Address: Postcode: Date of birth: Date of birth | [Malaysian New I.C.] [Malaysia Old I.C/Police/Arm Force/Passport] | | | |
| Usual Residential Address: Postcode: Date of birth: Date of birth | | | | |
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| Postcode: Date of birth: Ethnic group: State: District: Sex: Citizenship: Sex: Citiz | | | | |
| Date of birth: Date of birth: | Usual Residential Address: | | | |
| Date of birth: Date of birth: | | | | |
| Age | Postcode: | State: | District: | |
| Permanent Resident Age | Date of birth: Ethnic group: Sex: Citizenship: | | | |
| Age Years 3 Indian Other Indig Other Ind | 1 | Malay 5 Others | . 1 Male 1 Malaysian | |
| Chernoldg Please specify Pathology lab Stage Stage Stage Unknown Stage Unk | D D / M M / Y Y 2 | Chinese [Please specify] | 2 Female 2 Permanent Resident | |
| Chemical Control Chemical Co | Age Years 3 | Indian | 3 Others | |
| 2. SOURCE INFORMATION 1 Hospital/Clinic Reg. No: 2 Pathology lab Reg. No: 3 Other sources 3. DIAGNOSIS [Specify primary organ/ site cancer/exact location/ laterality if possible] Topography (Site) Morphology (Histology) 4. DATE OF DIAGNOSIS Title and the state of diagnosis Stage II | | Other Indig | | |
| Hospital/Clinic Reg, No: Stage Uuknown S | [Please specify] | | | |
| Reg, No: 2 Pathology lab Reg, No: 3 Other sources Stage II Lymph node involvement Remote metastasis 1 Yes 2 No No 3. DIAGNOSIS Specify primary organ/ site cancer/exact location/ laterality if possible Topography (Site) Morphology (Histology) A. DATE OF DIAGNOSIS Death certificate only G. Histology of 1 Clinical investigation Thistology of 2 Clinical investigation Thistology of 3 Clinical investigation Thistology of 4 Specific tumor markers Thistology of 4 Specific tumor markers Thistology of 4 Clinic Hospital iname: PLEASE FILL THIS FORM WITH ANY INFORMATION AVAILABLE WITH YOU AND SEND IT AS SOON AS POSSIBLE PLEASE MAINTAIN CONFIDENTIALITY AT ALL TIME | 2. SOURCE INFORMATION | 6. STAGE OF DIA | GNOSIS [at time of diagnosis] | |
| Reg. No: 3 Other sources 3. DIAGNOSIS [Specify primary organ/ site cancer/exact location/ laterality if possible] Topography (Site) Morphology (Histology) 4. DATE OF DIAGNOSIS Death certificate only 1 Others (J/J) 2 Clinical investigation 3 Other sources Stage III Lymph node involvement 1 Yes 2 No No 7. TYPE OF TREATMENT [Date started treatment] None Chemotherapy (J/J) Radiotherapy (J/J) Unknown Others (J/J) (Please specify] S. PRESENT STATUS 4. DATE OF DIAGNOSIS Death certificate only 1 Others (J/J) Please specify] S. PRESENT STATUS 1 Alive 2 Dead 5. BASIS OF DIAGNOSIS Death certificate only 1 Others (J/J) Death certificate only 1 Others (J/J) Please specify] Notified by: Cause of death D D / M M / Y Y Notified by: [Name and designation of reporting Officer] Clinic/Hospital name: PLEASE FILL THIS FORM WITH ANY INFORMATION AVAILABLE WITH YOU AND SEND IT AS SOON AS POSSIBLE PLEASE MAINTAIN CONFIDENTIALITY AT ALL TIME | 1 Hospital/Clinic | Stage I | Stage IV | |
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Appendix 31: Explanatory notes for completing cancer notification form

Please Notify

- a) All case of cancers (i.e. carcinomas, sarcomas, leukaemias and all other malignant tumours) diagnosed or treated 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 citizenships or place of domicile of the patient.
- d) Cancer cases referred to your hospital/clinic/practice which may have already been notified by the previous attending doctor.
- 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). You may choose to notify only once.

PROCEDURE

- 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 patient's I/C No. with additional M or F in the appropriate boxes indicating mother or father NRIC was used (e.g. A 1234567M).
 - Passport No. Police/ Arm Forces Identification Card Number to be used for foreigners/ police/ arms personnel. (Please indicate).
 - Name Full name in block letters as in NRIC / passport.
 - Usual Resident Address: Address where the patient usually resides at least for 6 months [Note: The address NRIC may not be the same].
 - Date of birth: Insert date of birth of patient into 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).
- Diagnosis (If insufficient space, write the information on a piece of paper and attach as appendix).
 Diagnosis (Site for topography): Please write in words with as much detail as possible.
 Pathological Diagnosis (Morphology): Please write in words with as much detail as possible.
- 4. Date of Diagnosis: Insert date of diagnosis made (Date that can be verified from records) and follow IARC definition*.
- 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.
- 10. Notified by: Fill in the relevant details. Please give the accessible contact number of the ward, clinic or hospital.

*Definition of Incidence Date

- 1. Date of first histological or cytological confirmation
 - a) Date when the specimen was taken (biopsy or operation).
 - b) Date of receipt by the pathologist.
 - c) Date of the pathology report.
- 2. Date of admission to the hospital because of this malignancy.
- 3. Date of first consultation at the outpatient clinic (only).
- 4. Date of diagnosis, other than 1, 2 or 3.
- 5. Date of death, if no information than that the patient has died because of a malignancy.
- 6. Date of death, if the malignancy is discovered at autopsy.

^{*} If patient is being followed up frequently: for example when undergoing treatment, the attending practitioner may choose to notify only once





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