



Kingdom of Saudi Arabia
Ministry of Health
National Cancer Registry

Cancer Incidence Report
Saudi Arabia
1994-1996

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Saudi Arabia
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National Cancer Registry

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PREFACE

After the 1994 success of the first report of the National Cancer Registry, the Board of Directors decided to issue a comprehensive incidence report to cover the three-year period of 1994-1996.

It is anticipated that the information presented in this extensive report will help the clinicians wishing to study cancer, and the authorities involved in the planning of oncological services. The data provided can be of use for epidemiological research, identifying risk factors for use in cancer control, screening and prevention programs, and the planning and evaluation of diagnostic health services and treatment.

The Board of Directors and staff of the National Cancer Registry are committed to the accuracy of collected information and issued reports, the prevention of data duplication, and on-going data collection. We also strive to uphold confidentiality of provided information. This is endorsed by training and close supervision of the staff and data collected in the Central and Regional Offices.

We welcome any constructive feedback from the readers of this report, in order to undertake the appropriate improvements of future communication, thus achieving our goal of presenting the cancer information of the Kingdom in the most meaningful form.

**Chairman,
Dr. Nasser Al-Hamdan**

Acknowledgements

Members of the Board of Directors of the National Cancer Registry would like to express their sincere thanks and gratitude to those who contributed to bring this monumental scientific task to reality. For an undertaking of this magnitude covering the whole Kingdom of Saudi Arabia, it is impossible to mention all those who contributed to the development and success of the Registry.

We take this opportunity to thank H.E. Professor Osama Shobokshi, Minister of Health for his continuing support of the NCR. H.E. inspiration and assistance has encouraged the Board of Directors to continue in their endeavor to satisfy his high expectations.

The commitment of H.E. Dr. Abdulrahman Al Swelim, former Executive Deputy for the Ministry of Health, H.E. Dr. Fahad Al Abdul Jabbar, former Counsel Supervisor of the Executive Management KFSH&RC and Dr. Rajeh Al Sabbah, first Chairman of the NCR, and their support to establish the NCR at KFSH&RC was a major force in its success.

We are grateful for the continuing support of Dr. Anwar Jabarti, the Executive and Council for the Management at King Faisal Specialist Hospital and Research Center, in extending the technical and administrative facilities to help maintain the Registry. We would like to thank Dr. Robert Stuart, the current Chairman of the Department of the Oncology at the KFSH&RC for his support of the NCR development.

The input and the contribution of Drs. Bandar Kenawy and Suliman Jastaniah as former Directors of the Southern Region Branch, Dr. Maad Al Douri former Director of the Security Forces Hospital Branch, and Ms. Michaels-Harper, the former Administrative Director of the NCR over the first two years, are much appreciated.

We would also like to thank the Department of Biomedical Statistics and Scientific Computing at the Research Center of the KFSH&RC, and Field Epidemiology Training Program at the Ministry of Health for their technical support.

We would like to mention specifically the staff of the NCR in all regions and Central Office who are so dedicated and committed to its success. Without their support, commitment, devotion and hard work this undertaking would not have taken place.

Finally, we wish to express our thanks to Bristol-Myers Squibb and Rhône Poulenc Rorer pharmaceutical companies for their participation in the printing of this report.

PART I - INTRODUCTION

Background of Saudi Arabia
National Cancer Registry
Objectives
Organizational structure
Data management

Background of Saudi Arabia

Saudi Arabia is a vast country that extends over four-fifths of the Arabian Peninsula. It is strategically located, stretching from the Arabian Gulf in the East to the Red Sea in the West. It is approximately 1,500,000 square miles in area. It is divided into 13 Administrative Regions (Figure 1) to ensure a comprehensive collection of data.

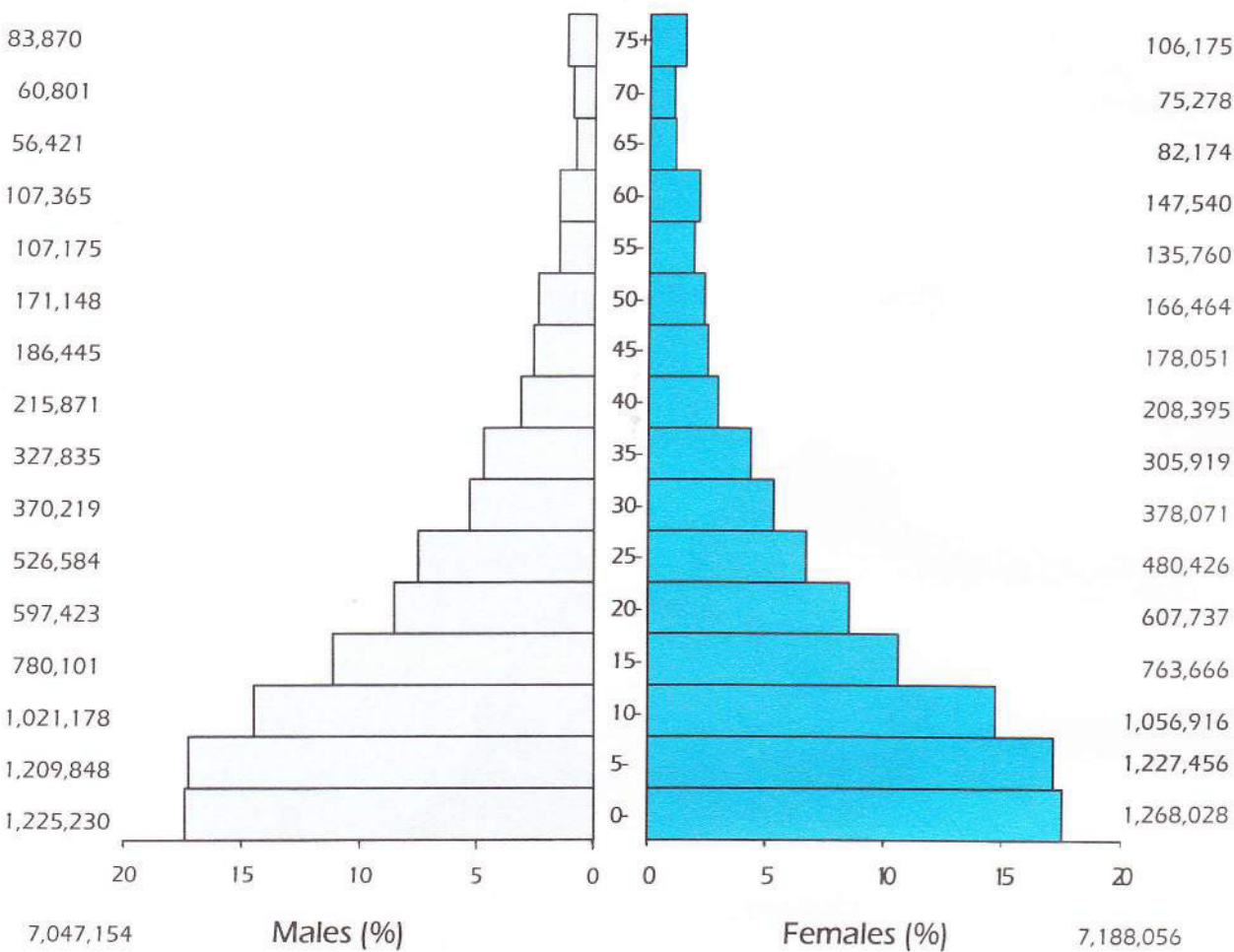
Figure 1- Administrative regions of Saudi Arabia



The estimated Saudi population in 1996* was 14,089,156 representing 7,047,154 males and 7,188,056 females. The estimated non-Saudi population in 1995 was 4,624,734. Figure 3 reflects the Saudi population pyramid by sex.

* Source: Central Department for Statistics (CDS). The population estimate is based on the 1993 census, with a growth rate of 3.7% for Saudi population.

Figure 2- Population pyramid of Saudi Arabia by sex, 1996



NATIONAL CANCER REGISTRY

The National Cancer Registry (NCR) in Saudi Arabia is a population-based registry developed in 1992 (1412H). It was established under the jurisdiction of the Ministry of Health (MOH) by the Order of His Excellency the Minister of Health. The NCR commenced reporting cancer cases from 01 January 1994.

Objectives

The primary goal of the NCR is to define the population-based incidence of cancer in Saudi Arabia. Future propositions include supporting early detection and cancer screening programs and cancer research projects.

Organizational structure

A Board of Directors was appointed to include representatives from MOH, King Faisal Specialist Hospital and Research Center (KFSH&RC), and the Medical Services Departments of the Ministry of Defence and Aviation, Ministry of Interior, the National Guard, King Saud University, King Faisal University and King Abdulaziz University.

The Board is charged with the responsibility of overseeing the NCR's establishment, defining demographic and cancer-related data to be collected, approving research requests, and reporting findings, and dissemination of information collected while ensuring the confidentiality of all data.

The Main Office, with its administrative and technical staff, is located on the premises of KFSH&RC in Riyadh. In addition to the Main Office, five regional branches and three hospital-based offices were set up to ensure comprehensive data collection from all over the Kingdom. These offices are:

- Central Region Branch: at King Khalid University Hospital in Riyadh. It covers Riyadh, Qassim, and Hail Health Regions.
- Eastern Region Branch: at King Fahad University Hospital in Khobar. It covers Eastern, Hasa, and Hafr Al-Batin Health Regions.
- Western Region Branch: at King Abdulaziz Hospital and Cancer Center in Jeddah. It covers Jeddah, Makkah, Taif and Gunfudah Health Regions.
- Southern Region Branch: at the Medical College in Abha. It covers Asir, Baha, Najran, Jazan and Bisha Health Regions.
- Madinah Branch: at King Fahad Hospital in Madinah. It covers Madinah, Tabuk, Jouf and Northern Health Regions.
- Offices at the Medical Services Oncology Departments of the following establishments:
 - ◆ Ministry of Defence and Aviation, with an office at the Armed Forces Hospital in Riyadh
 - ◆ National Guard, with an office at King Fahad Hospital in Riyadh.
 - ◆ Ministry of Interior, with an office at the Security Forces Hospital in Riyadh.

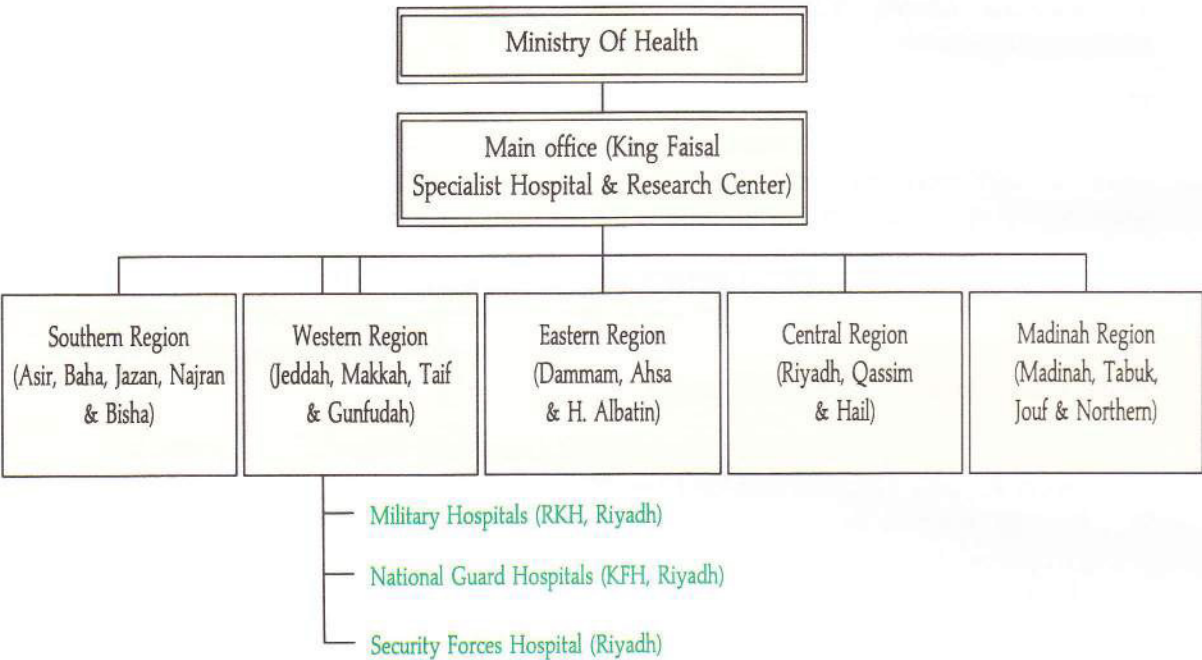
Figure-3 presents the organizational chart for the NCR.

Each of these branches and offices are under the supervision of a member of the Board of Directors, who is responsible for the daily management of that office and for ensuring the accuracy of information reported. In addition to tumor registrars and secretarial staff, each office is provided with the necessary computer facilities, printers, and a fax.

The functions of the Central Office include:

- Collation of data collected from all the regions and offices;
- Assurance against case duplication;
- Verification of the diagnosis;
- Cleaning and validating the data; and
- Preparation of regular reports for dissemination to the medical community, government establishment, international organizations and the media.

Figure 3- 1966 Organizational chart for the Saudi Arabian National Cancer Registry



Data management

For a comprehensive data collection, a Ministerial Decree has categorized cancer as a mandatory notifiable disease. The NCR has full access to cancer data from all MOH, Governmental and private hospitals, clinics and laboratories throughout the Kingdom. Data are extracted from the patients' medical records, based on clinical and histo-pathological diagnosis, by NCR-trained registrars.

The data form (see appendix) includes the patient's personal identification (name, sex and age), patient's demographic data (address and nationality), tumor details (incidence date, source of information, basis of diagnosis, site, histology, stage and behavior). The cancers are specified in terms of the codes for topography and morphology of the International Classification of Diseases for Oncology (ICD-O), World Health Organization (WHO), 1990.

Efforts are made to code the information and match patient identifiers so that the case is eligible and counted only once for statistical analysis. The computer software used for data entry is EpiInfo version 5.01b, and for analysis is CanReg version 2 (cancer registration software developed by the International Agency for Research on Cancer, Lyon, France).

Though the NCR compiled the cancer incidence data available in this report, detailed information is also available. If further information is desired a filled data request form (see appendix) can be sent to the NCR. The Board of Directors will provide the necessary data after consideration.

PART II
CANCER INCIDENCE IN THE KINGDOM OF SAUDI ARABIA,
1994-1996

Summary

Introduction: Cancer Incidence in the Kingdom of Saudi Arabia 1994-1996

Section I : Overall Cancer Incidence in Saudi Arabia 1994-1996

Section II: Cancer Incidence for Specific Sites 1994-1996

- Female breast cancer

- Leukemia

- Liver cancer

- Non-Hodgkin's lymphoma

- Colo-rectal cancer

- Thyroid cancer

- Lung cancer

- Central nervous system cancers

- Stomach cancer

- Urinary bladder cancer

- Prostate cancer

- Ovary cancer

- Uterine cervical cancer

SUMMARY

The data and statistical analysis in this report represent all cancer cases developed from January 1994 to December 1996 and subsequently reported to the NCR. The total number of cases in the Saudi population and non-Saudi expatriates was 23,092. There were 12,586 (54.5%) males and 10,506 (45.5%) females. The male to female ratio was 1.2:1. Cancer in the Saudi nationals accounted for 16,294 cases (70.6%) and in the non-Saudis 6,798 cases (29.4%).

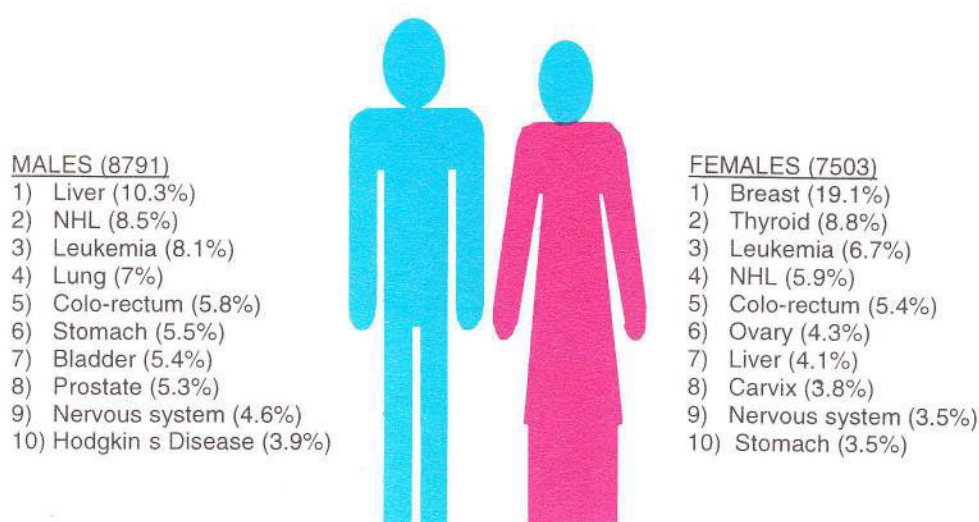
Histological and/or cytological diagnosis of malignancy was confirmed in 95% of cases. The remaining diagnoses were made on clinical and radiological grounds in 4.4% of the cases, while the method of diagnosis was not known for 0.6%.

In the Kingdom, taking into consideration the population structure and the fact that cancer is primarily a disease of the old, the pattern of cancer had some significant differences from that in the West. During the period of reporting, between 1994 and 1996, just over 10.2% of all cancers occurred before the age of 15, and 29.8% occurred after the age of 64 years. For the total Saudi population, the ten most common cancers were:

- Female breast cancer (8.8%);
- Liver cancer (7.5%);
- Leukemia (7.5%);
- Non-Hodgkin's lymphoma (7.3%);
- Colo-rectal cancer (5.5%);
- Thyroid cancer (5.2%);
- Lung cancer (4.7%);
- Central nervous system cancers (3.9%);
- Stomach cancer (3.8%); and
- Urinary bladder cancer (3.5%).

Figure 4 represents the most common sites of cancer among all Saudi patients designated by gender. The data were ranked using ICD-9 to include the frequency for the three years.

Figure 4- The ten most common cancers for Saudis by sex, 1994-1996



INTRODUCTION

CANCER INCIDENCE IN THE KINGDOM OF SAUDI ARABIA, 1994-1996

This section includes the relevant epidemiological and clinico-pathological details for the most common thirteen cancers occurring in the Saudi nationals for the three-year period of 1994 to 1996. A standardized layout is used to present data for all patients and both sexes where applicable.

International statistical comparisons are included for the specified cancer. It includes the ranking of the cancer worldwide, the estimated number of cases for 1996, and the high incidence areas of the world. The relevant sources of this information are:

1. World Health Organization. The World Health Report, 1997: Conquering Suffering Enriching Humanity. WHO, Geneva, 1997.
2. World Cancer Research Fund in association with American Institute for Cancer Research. Food, Nutrition and the Prevention of Cancer: a global perspective. AICR, Washington, 1st ed., 1997.

For the analysis of the presented data and its collection, two appropriate statements can be made:

- a. The number of patients presenting with malignant disease from the Riyadh region exceeds the anticipated number per population. This can be explained by the presence of many major referral hospitals for cancer diagnosis and therapy in Riyadh. Many patients coming to Riyadh for treatment purposes manage to produce a permanent address. It is anticipated that this situation will be resolved as soon as computerization of Identification Documents is completed.
- b. A decline in the number of patients during the period between 1994-1996 was expected. Greater underreporting in the most recent years is a feature of newly developed registries. We advise extreme caution in extrapolating unjustifiable conclusions from the observed drop, which is caused in our opinion, by delay in reporting rather than clinical or epidemiological factors.

Traditionally most registries experience under-reporting of 10-15% or even more. Administrative and organizational under-reporting causes most of this disparity. This almost always improves with experience, training and continuing follow-up.

The relevant data, incorporate details for all patients presented over the period from January 1994 to December 1996. For each cancer there are two figures, a map and a table outlined as follows:

- A. An arithmetic line graph to represent the change in average Age-Specific-Crude Incidence Rate (AIR) for all age groups at a five-yearly intervals. The graphs are plotted for both sexes where applicable.
- B. A map of the Kingdom of Saudi Arabia showing the pertinent regional ASR scaled cancer differences. The relevant ASR for each health region is graphically illustrated as five broad incidence-intervals. The incidence-interval varies between different cancers to reflect its relevant rate of occurrence.

- C. A table to portray the percentages of the most common histologic subtypes for each cancer according to ICD-O classification where relevant.
- D. The final figure shows the distribution of clinical stages of each cancer diagnosed over the specified period according to sex. The distribution as in-situ, localized, regional, distant and unknown is system used by the SEER studies.

The above information is followed by the epidemiological and clinico-pathological details of the 13 most frequent cancers seen in the Kingdom.

SECTION I

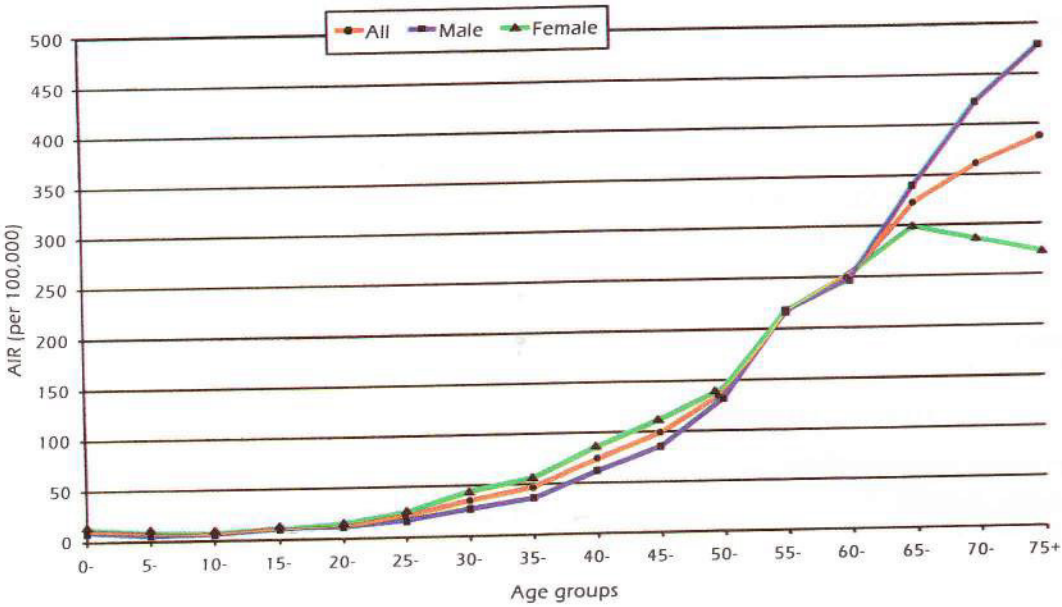
The Overall Cancer Incidence in Saudi Arabia, 1994-1996

In this section of the report, all cancer cases reported to the NCR are examined. Taken in the context of the population age-structure, it is not unexpected that there is a lower relative incidence of epithelial cancers, as it is primarily a disease of old age.

Worldwide over 10 million individuals developed cancer in 1996. Of these, 57% were diagnosed in the developing countries. In 1996 the most common cancer site in men was lung cancer. In developed countries it is followed by prostate cancer, colo-rectal cancer and stomach cancer. In developing regions, stomach cancer is the second most frequently appearing cancer, followed by liver cancer and cancers of the mouth and pharynx, with wide regional variations. In women, breast cancer was the most common in developed and developing countries. In developed countries, colo-rectal, lung and stomach cancers follow. In developing regions cancer of the cervix is the second commonest, followed by cancers of stomach and lung.

Between January 1994 and December 1996, the total number of cancer cases reported among Saudis was 16,294. Overall cancer was more predominant in men than in women. There were 8,791 Saudi males and 7,503 females, with a ratio of 1.2: 1. The crude incidence rate (CIR) of all cancers in the Saudi population was 39/100,000. It was 42.3/100,000 for males and 36.8/100,000 for females. The overall age-standardized incidence rate with a world standard population (ASR) reference was 71.7/100,000. The ASR was 72.2/100,000 for Saudi males and 70.1/100,000 for Saudi females. For all sites, the age-specific incidence rate (AIR) increased with age for both males and females. After the age of 64 years, the increase was twofold for males compared to females.

I- Average age-specific incidence rate (AIR) for all cancers in Saudi Arabia, 1994-1996



SECTION II

Cancer Incidence for Specific Anatomical Sites, 1994-1996

In this section the incidence of the predominant thirteen cancers, seen between January 1994 and December 1996, in the Kingdom of Saudi Arabia are outlined in order according to their relative frequency in the whole Saudi population.

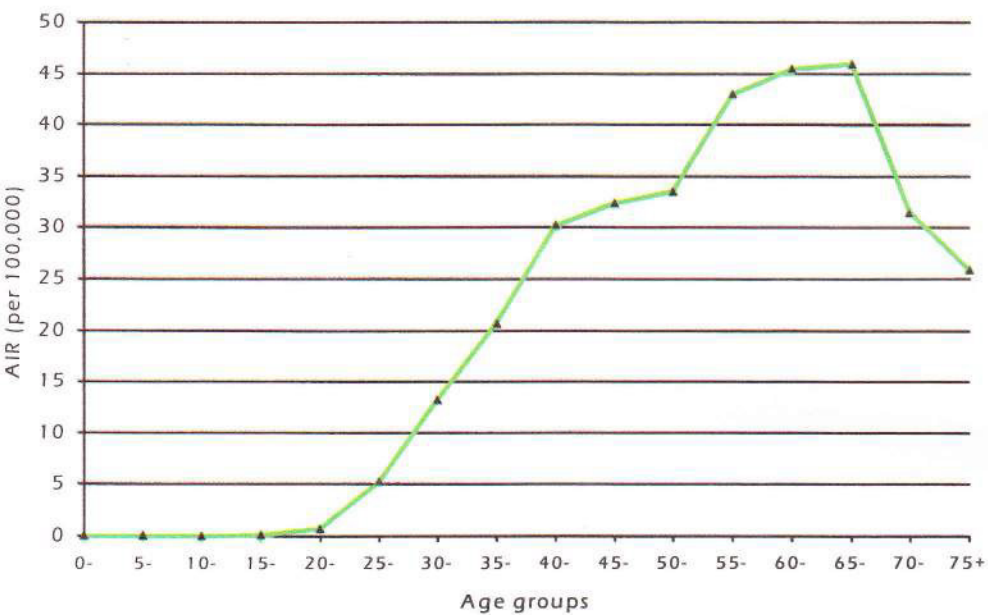
Similar to the layout used in Section I, for each cancer there are two figures, a map, and a table. An arithmetic line graphs represents the change in average Age-Specific Incidence Rate (AIR) for all age groups at five-year intervals. The graphs are plotted for both sexes where applicable. A map of the Kingdom of Saudi Arabia showing the pertinent regional and geographical differences follows. It includes the relevant ASR for each health region graphically illustrated as five equally broad incidence-intervals. A table portrays the percentages of the most common histology subtypes for each cancer. Finally a figure shows the distribution of the clinical stages of each cancer charted according to sex. The histology subtypes and the stages (in-situ, localized, regional, distant and unknown) as recommended by ICD-O are presented

Female breast cancer

Between January 1994 and December 1996 there were 1,430 cases of female breast cancer among Saudis. It accounted for 19.1% of all newly diagnosed cancers in females. The ASR was 14.0/100,000 female population. This cancer ranked 1st for the Saudi females. The mean age at diagnosis was 48.3 years.

Cancer of the breast is the most common cancer in the world among women. The estimated number of worldwide cases diagnosed in 1996 was 900,000. More than half was in Europe and North America.

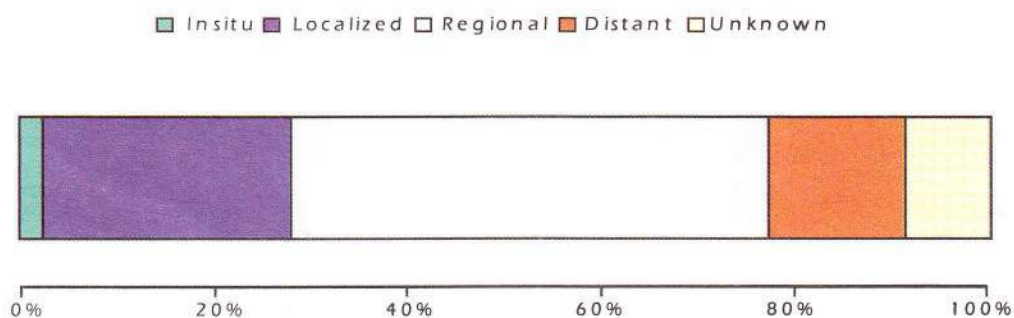
I- Average age-specific incidence rate (AIR) for female breast Cancer in Saudi Arabia, 1994-1996



III- Histology of female breast cancer in Saudi Arabia, 1994-1996

ICD-O code	Histology	%
850039	Infiltrating ductal carcinoma	76.1
801039	Carcinoma, NOS	5.4
852039	Lobular carcinoma, NOS	3.5
814039	Adenocarcinoma, NOS	2.9
851039	Medullary carcinoma, NOS	2.1
	Other	10.2

IV- Stage distribution of female breast cancer in Saudi Arabia, 1994-1996

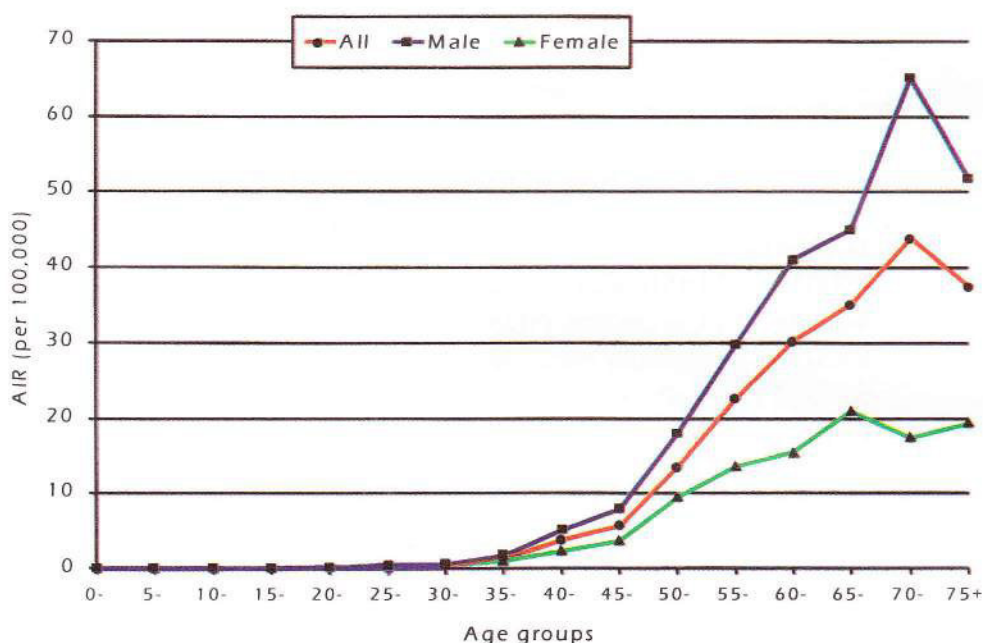


Liver cancer

Between January 1994 and December 1996 there were 1,216 cases of liver cancer among Saudis. It accounted for 7.4% of all newly diagnosed cancers. The overall ASR was 6.3/100,000 population. The ASR was 8.5/100,000 for males and 3.5/100,000 for females. This cancer ranked first for males, and seventh for females. There were 906 males and 310 females with a ratio of 2.9:1. The mean age at diagnosis was 62.3 years for males and 59.0 years for females.

Cancer of the liver is the sixth most common cancer in the world. The estimated number of cases worldwide in 1996 was 540,000, with 82% diagnosed in developing countries.

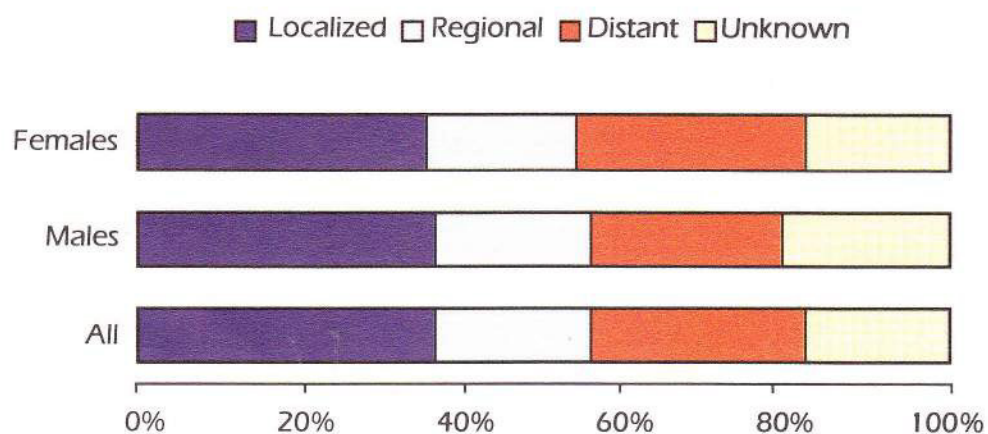
I- Average age-specific incidence rate (AIR) for liver cancer in Saudi Arabia, 1994-1996



III - Histology of liver cancer in Saudi Arabia, 1994-1996

ICD-O code	Histology	%
817039	Hepatocellular carcinoma, NOS	88.8
816039	Cholangiocarcinoma	3.2
814039	Adenocarcinoma, NOS	2.2
800039	Malignant tumor, NOS	1.7
801039	Carcinoma, NOS	1.5
	Other	2.6

IV - Stage distribution of liver cancer in Saudi Arabia, 1994-1996

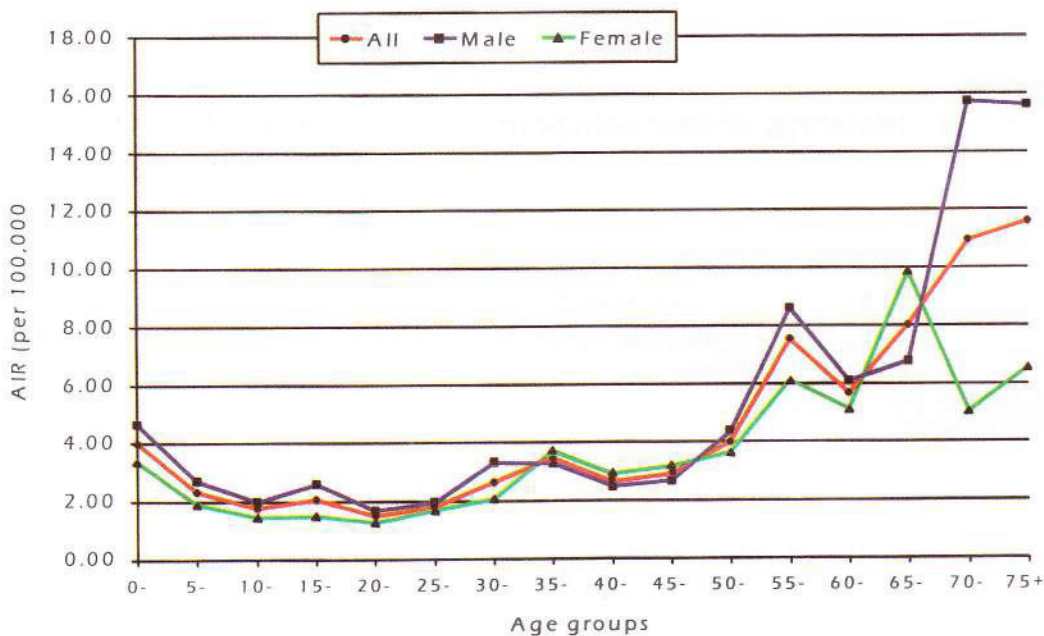


Leukemia

Between January 1994 and December 1996 there were 1,216 cases of leukemia among Saudis. It accounted for 7.5% of all newly diagnosed cancers. The overall ASR was 3.5/100,000 population. The ASR was 3.9/100,000 for males and 3.0/100,000 for females. This cancer ranked third for both males and females. There were 716 males and 500 females with a ratio of 1.4:1. The mean age at diagnosis was 27.8 years for males and 25.2 years for females.

The estimated number of cases worldwide for all types of leukemia in 1996 was 300,000. Incidence rates were highest in North America, Western Europe, Australia, Japan and New Zealand.

I- Average age-specific incidence rate (AIR) for leukemia in Saudi Arabia, 1994-1996



III- Histology of leukemia in Saudi Arabia, 1994-1996

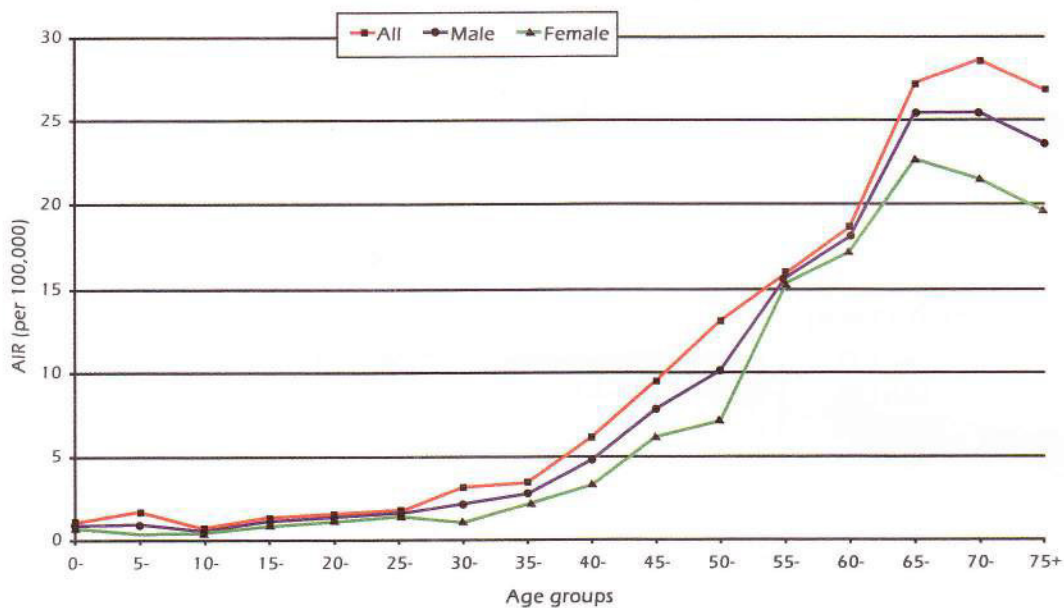
ICD-O code	Histology	%
982139	Acute lymphoblastic leukemia, NOS	47.4
986139	Acute myeloid leukemia	20.7
986339	Chronic myeloid leukemia	12.6
982339	Chronic lymphocytic leukemia	7.6
980139	Acute leukemia, NOS	2.1
	Other	9.7

Non-Hodgkin's lymphoma

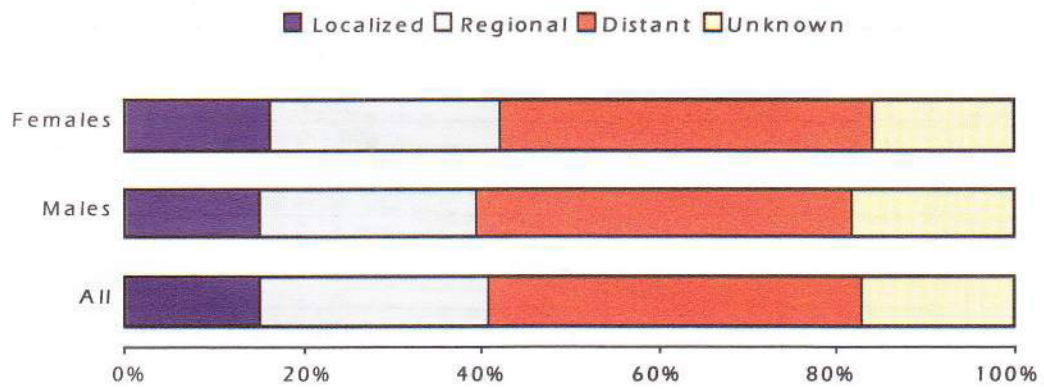
Between January 1994 and December 1996 there were 1,197 cases of non-Hodgkin's lymphoma among Saudis. It accounted for 7.4% of all newly diagnosed cancers. The overall ASR was 5.2/100,000 population. The ASR was 6.1/100,000 for males and 4.3/100,000 for females. This cancer ranked second for the male, and fourth for the female population. There were 751 males and 446 females with a ratio of 1.7:1. The mean age at diagnosis was 48.3 years for males and 49.2 years for females.

The estimated number of non-Hodgkin's lymphoma in 1996 was 148,850 cases worldwide. Incidence rates were highest in Europe and North America.

I- Average age-specific incidence rate (AIR) for non-Hodgkin's lymphoma in Saudi Arabia, 1994-1996



III – Stage distribution of non-Hodgkin's lymphoma in Saudi Arabia, 1994-1996

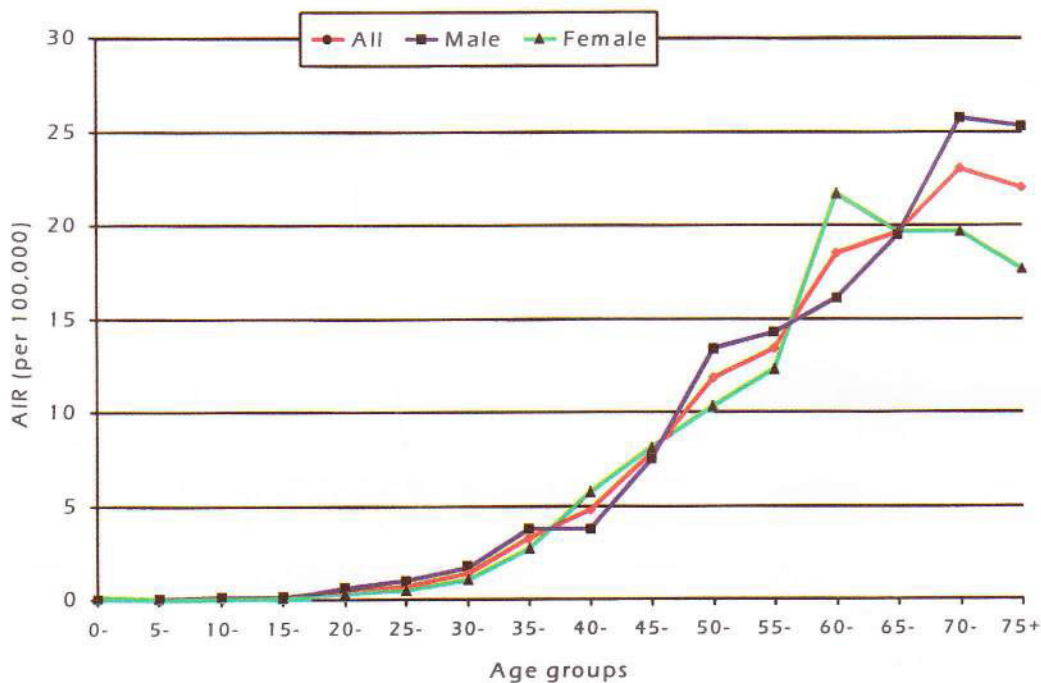


Colo-rectal cancer

Between January 1994 and December 1996 there were 915 cases of colo-rectal cancer among Saudis. It accounted for 5.6% of all newly diagnosed cancers. The overall ASR was 4.5/100,000 population. The ASR was 4.6/100,000 for males and 4.4/100,000 for females. This cancer ranked fifth for both males and females. There were 512 males and 403 females, with a ratio of 1.3:1. The mean age at diagnosis was 57.4 years for males and 55 years for females.

Colo-rectal cancer is the fourth most common cancer in the world. The estimated number of cases worldwide in 1996 was 875,000, accounting for 8.5% of all cancers. Incidence rates were highest in North America, Europe and Australia.

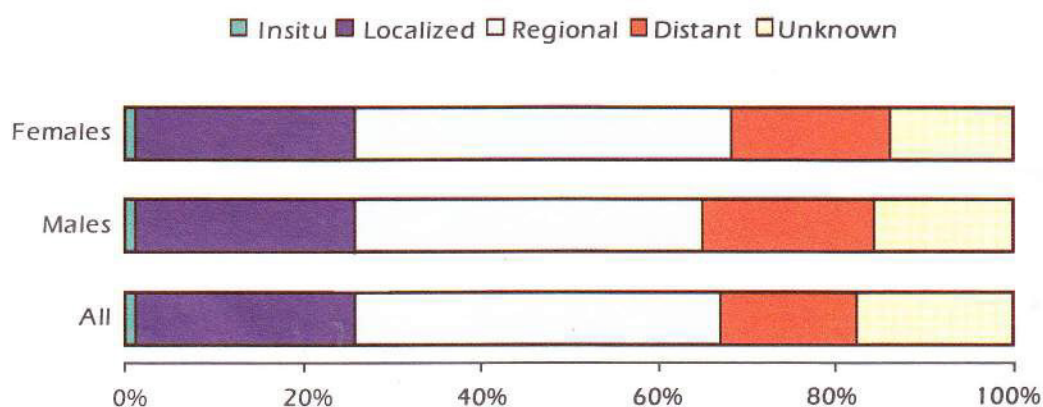
I- Average age-specific incidence rate (AIR) for colo-rectal cancer in Saudi Arabia, 1994-1996



III- Histology of colo-rectal cancer in Saudi Arabia, 1994-1996

ICD-O code	Histology	%
814039	Adenocarcinoma, NOS	77.1
801039	Carcinoma, NOS	6.3
848039	Mucinous adenocarcinoma	5.6
848139	Mucin-producing adenocarcinoma	1.8
849039	Signet ring cell carcinoma	1.6
	Other	7.7

IV- Stage distribution of colo-rectal cancer in Saudi Arabia, 1994-1996

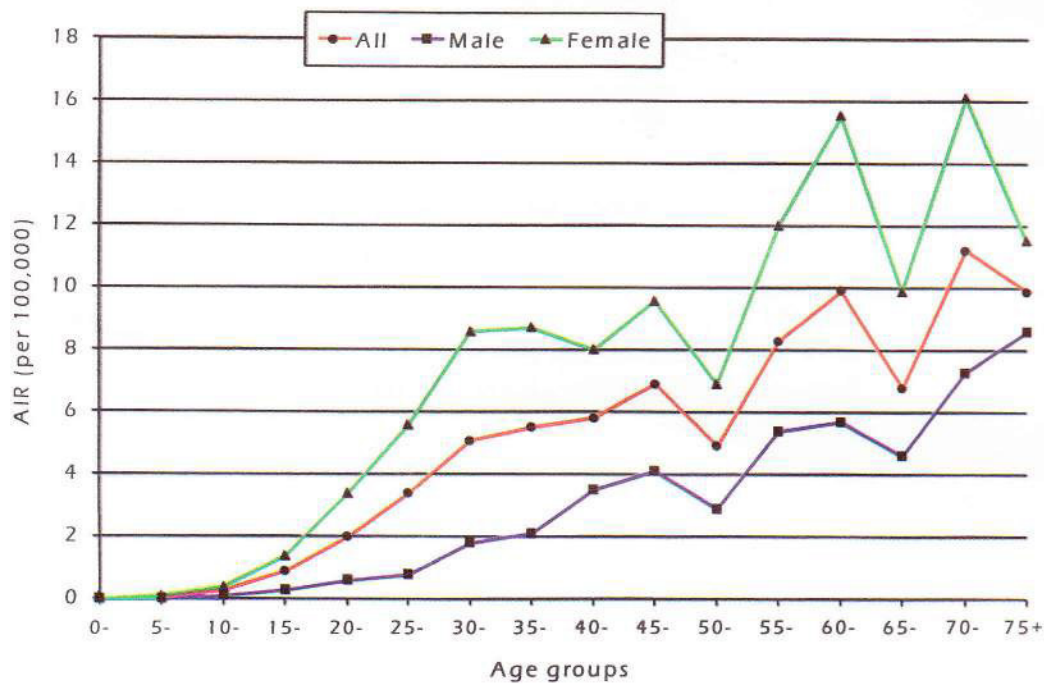


Thyroid cancer

Between January 1994 and December 1996, there were 883 cases of thyroid cancer among Saudis. It accounted for 5.4% of all newly diagnosed cancers. The overall ASR was 3.5/100,000 population. The ASR for males was 1.9/100,000 and 5.3/100,000 for females. This cancer ranked 14th for males, and second for females. There were 225 males and 658 females with a ratio of 1:2.9. The mean age at diagnosis was 49.8 years for males and 40.8 years for females.

Cancer of the thyroid is relatively rare. Worldwide, it represented fewer than 2% of all reported cancers in 1996.

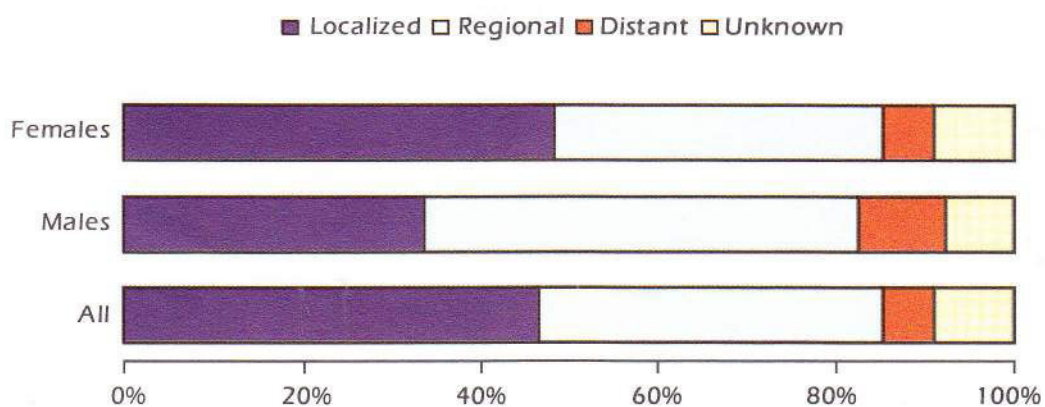
I- Average age-specific incidence rate (AIR) for thyroid cancer in Saudi Arabia, 1994-1996



III- Histology of thyroid cancer in Saudi Arabia, 1994-1996

ICD-O code	Histology	%
805039	Papillary carcinoma, NOS	64.3
834039	Papillary and follicular carcinoma	11.9
833039	Follicular adenocarcinoma, NOS	7.1
801039	Carcinoma, NOS	3.3
826039	Papillary adenocarcinoma, NOS	2.8
	Other	10.5

IV- Stage distribution of thyroid cancer in Saudi Arabia, 1994-1996

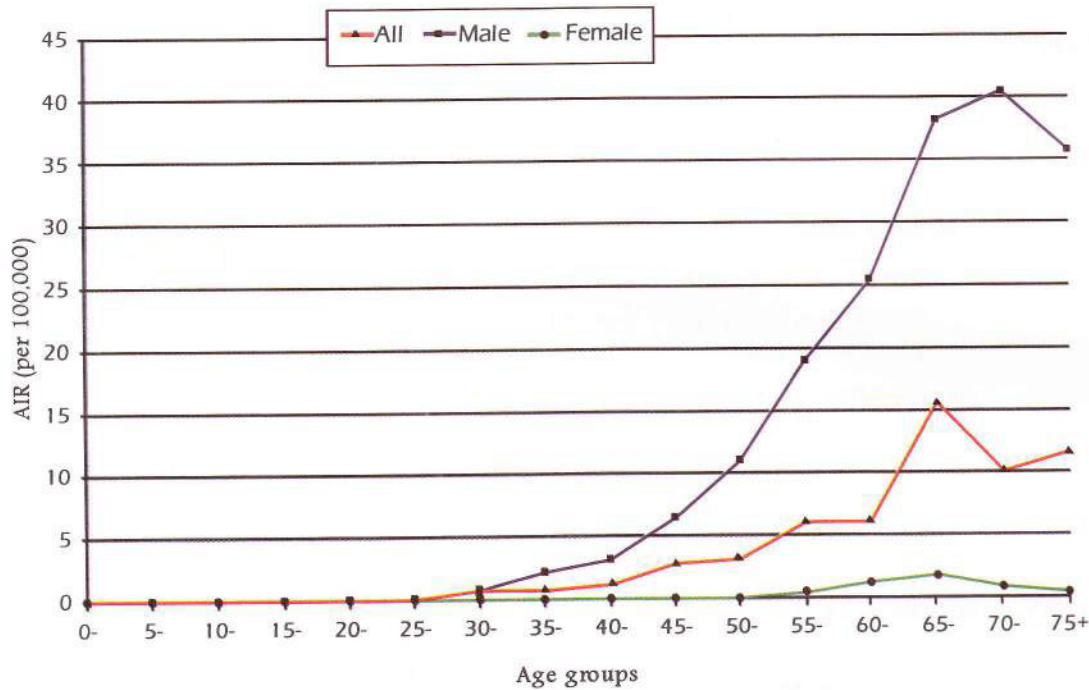


Lung cancer

Between January 1994 and December 1996 there were 779 cases of lung cancer among Saudis. It accounted for 4.8% of all newly diagnosed cancers. The overall ASR was 4.1/100,000 population. The ASR was 5.8/100,000 for males and 1.9/100,000 for females. There were 612 males and 167 females with a ratio of 3.7:1. Lung cancer ranked fourth for males, and 14th for females. The mean age at diagnosis was 62.3 years for males and 58.4 years for females.

Cancer of the lung is the most common cancer in the world, accounting for 12.8% of all cancers. The estimated number of cases in 1996 was 1,320,000 worldwide. Incidence rates were highest in North America and Europe.

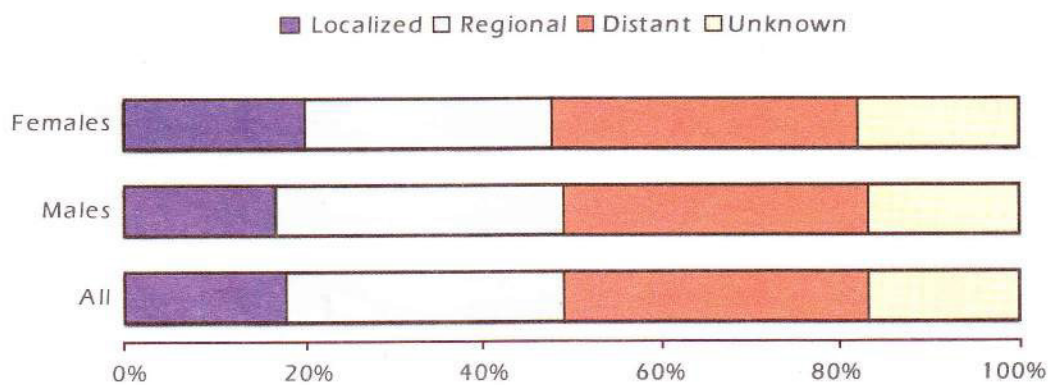
I- Average age-specific incidence rate (AIR) for lung cancer in Saudi Arabia, 1994-1996



III- Histology of lung cancer in Saudi Arabia, 1994-1996

ICD-O code	Histology	%
807039	Squamous cell carcinoma, NOS	30.5
814039	Adenocarcinoma, NOS	23.5
801039	Carcinoma, NOS	12.1
804139	Small cell carcinoma, NOS	9.7
801239	Large cell carcinoma, NOS	6.9
	Other	17.4

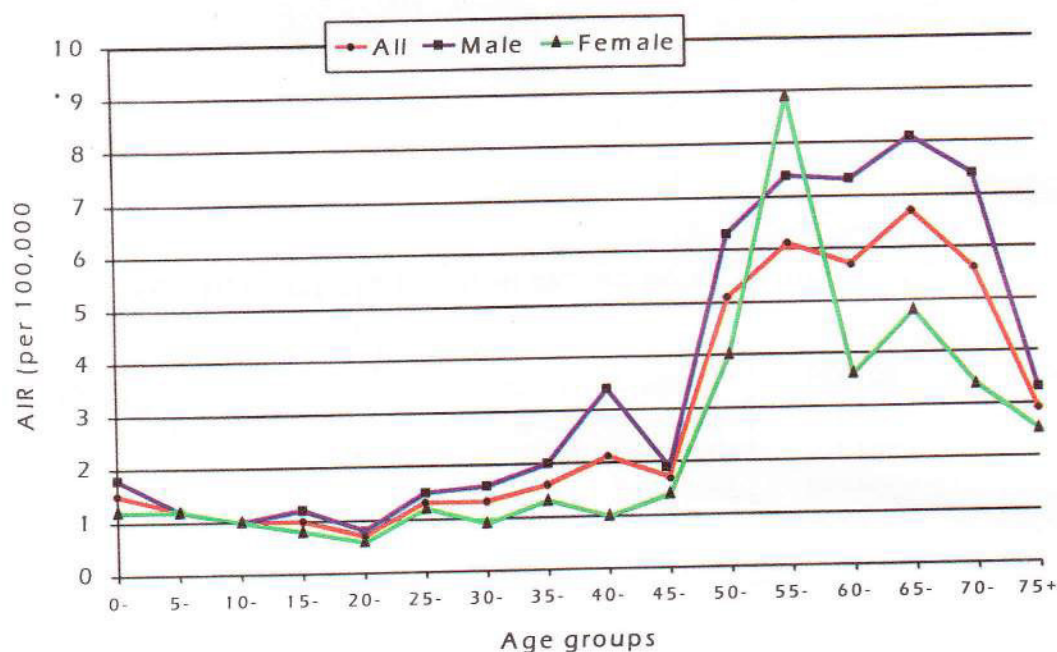
IV- Stage distribution of lung cancer in Saudi Arabia, 1994-1996



Central nervous system cancers

Between January 1994 and December 1996 there were 664 cases of central nervous system cancers among Saudis. It accounted for 4.1% of all newly diagnosed cancers. The overall ASR was 2.1/100,000 population. The ASR were 2.6/100,000 for males and 1.6/100,000 for females. This cancer ranked ninth for both males and females. There were 401 males and 263 females, with a ratio of 1.5:1. The mean age at diagnosis was 32.3 years for males and 26.6 years for females.

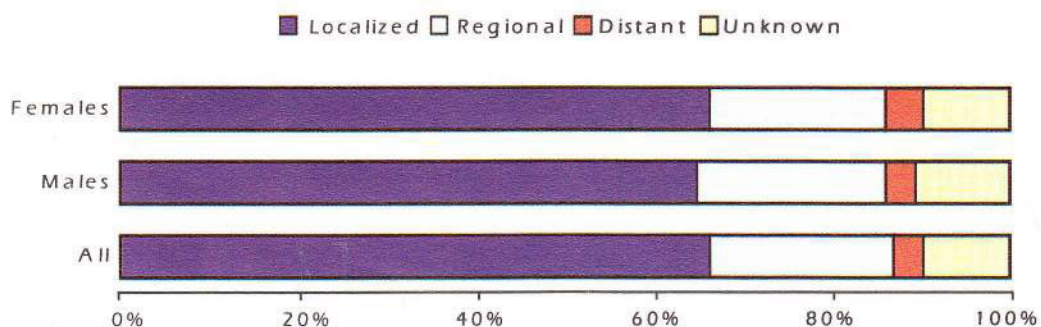
I- Average age-specific incidence rate (AIR) for central nervous system cancers in Saudi Arabia, 1994-1996



III- Histology of the central nervous system cancers in Saudi Arabia, 1994-1996

ICD-O code	Histology	%
940039	Astrocytoma, NOS	27.3
944039	Glioblastoma, NOS	18.8
947039	Medulloblastoma, NOS	13.3
938039	Malignant glioma	7.1
942139	Pilocytic astrocytoma	4.9
	Other	28.6

IV- Stage distribution of central nervous system cancers in Saudi Arabia, 1994-1996

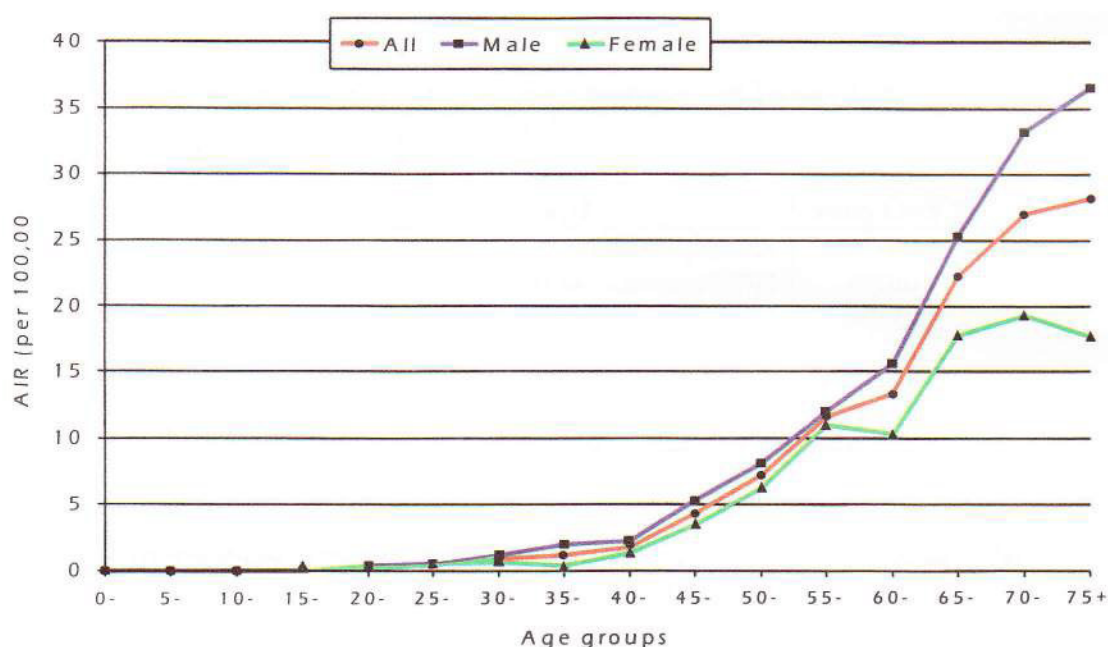


Stomach cancer

Between January 1994 and December 1996 there were 738 cases of stomach cancer among Saudis. It accounted for 4.5% of all newly diagnosed cancers. The overall ASR was 3.7/100,000 population. The ASR was 4.4/100,000 for males and 2.9/100,000 for females. This cancer ranked sixth for males, and tenth for females. There were 479 males and 259 females with a ratio of 1.9:1. The mean age at diagnosis was 63.5 years for males and 58.8 years for females.

Cancer of the stomach is the second most common cancer in the world. The estimated number of cases in 1996 was over 1 million worldwide, accounting for nearly 10% of all cancers. Incidence rates were highest in Japan, Central and South America, and eastern Asia.

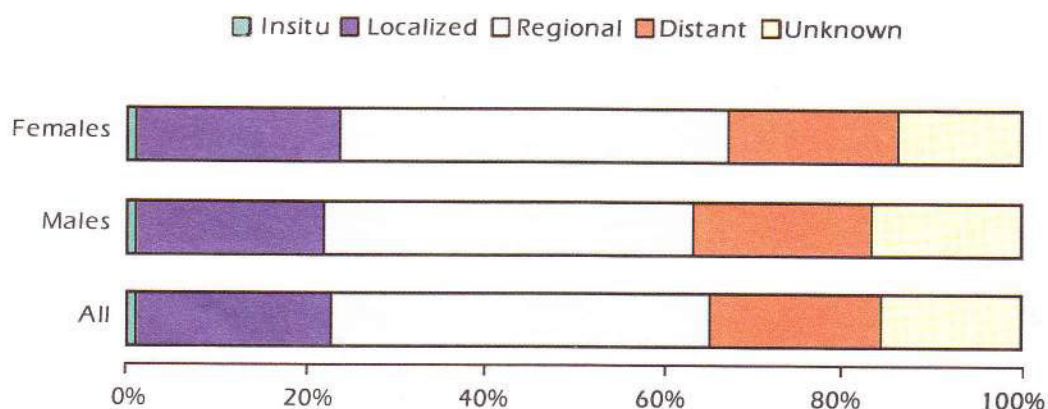
I- Average age-specific incidence rate (AIR) for stomach cancer in Saudi Arabia, 1994-1996



III- Histology of stomach cancer in Saudi Arabia, 1994-1996

ICD-O code	Histology	%
814039	Adenocarcinoma, NOS	60.7
849039	Signet ring cell carcinoma, NOS	7.6
801039	Carcinoma, NOS	7.2
968039	Malignant lymphoma large cell diffuse, NOS	5.7
848039	Mucinous adenocarcinoma	2.2
	Other	16.6

IV- Stage distribution of stomach cancer in Saudi Arabia, 1994-1996

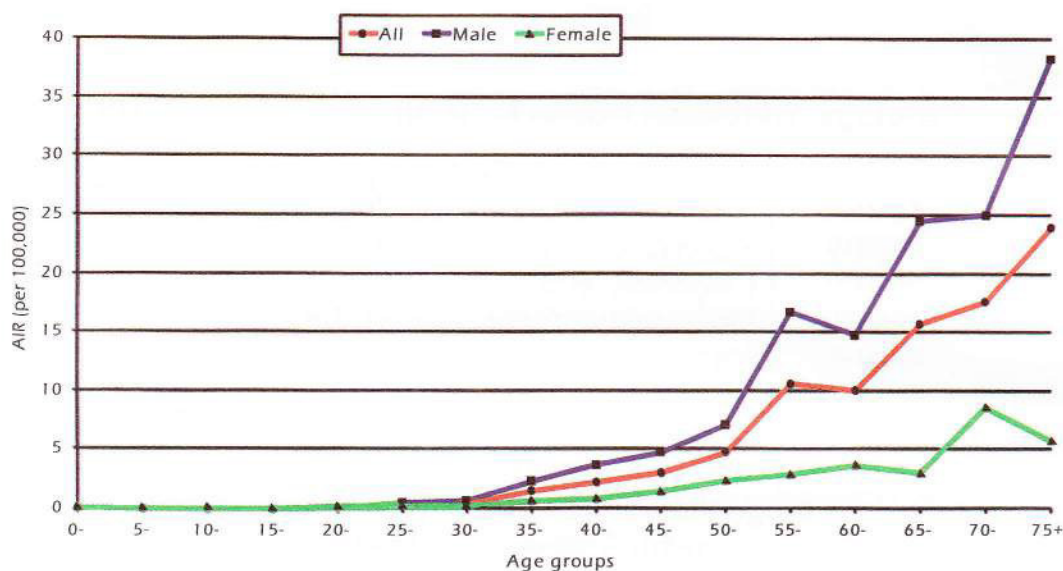


Urinary bladder cancer

Between January 1994 and December 1996 there were 578 cases of urinary bladder cancers among Saudis. It accounted for 3.6% of all newly diagnosed cancers. The overall ASR was 2.9/100,000 population. The ASR was 4.3/100,000 for males and 1.0/100,000 for females. This cancer ranked seventh for males, and 18th for females. There were 478 males and 100 females with a ratio of 4.8:1. The mean age at diagnosis is 62.4 years for males and 55.3 years for females.

Cancer of the urinary bladder was the eleventh most common cancer in the world. The estimated number of cases in 1996 was 310,000 worldwide, accounting for 3% of all new cancers. Incidence rates were highest in North America, Europe, northern Africa and China.

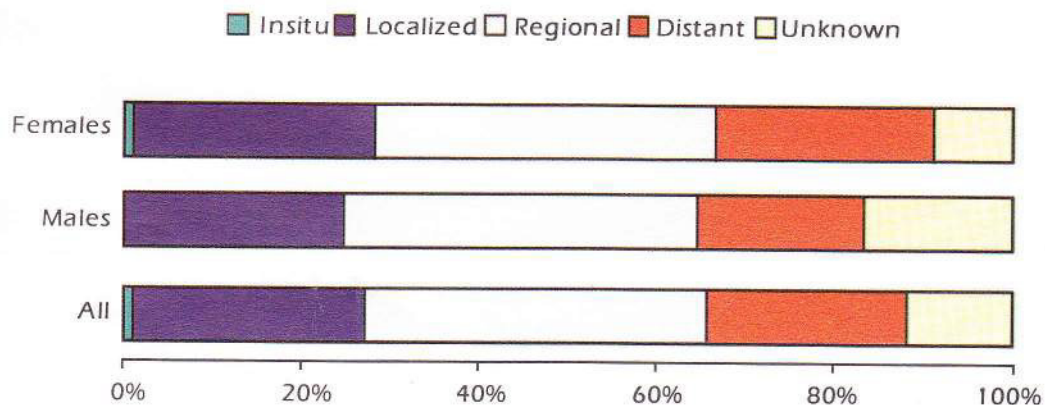
I- Average age-specific incidence rate (AIR) for urinary bladder cancer in Saudi Arabia, 1994-1996



III- Histology of urinary bladder cancer in Saudi Arabia, 1994-1996

ICD-O code	Histology	%
812039	Transitional cell carcinoma, NOS	48.9
813039	Papillary transitional cell carcinoma	26.7
807039	Squamous cell carcinoma, NOS	10.3
801039	Carcinoma, NOS	6.3
814039	Adenocarcinoma, NOS	1.9
	Other	5.9

IV- Stage distribution of urinary bladder cancer in Saudi Arabia, 1994-1996

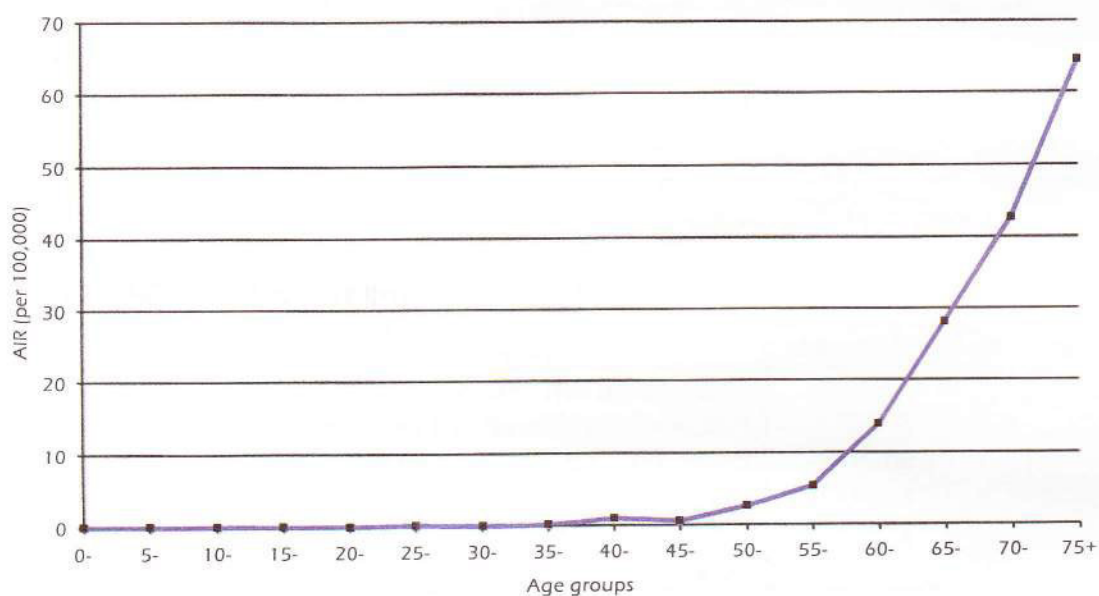


Prostate cancer

Between January 1994 and December 1996 there were 464 cases of prostate cancer among Saudis. It accounted for 2.9% of all newly diagnosed cancers. The ASR for males was 4.0/100,000 population. This cancer ranked eighth for males. The mean age at diagnosis was 71.8 years.

Cancer of the prostate is the ninth most common cancer in the world. The estimated number of cases in 1996 was 400,000 worldwide, accounting for 3.9% of all new cancers. Incidence rates were highest in Europe, North America and Australia.

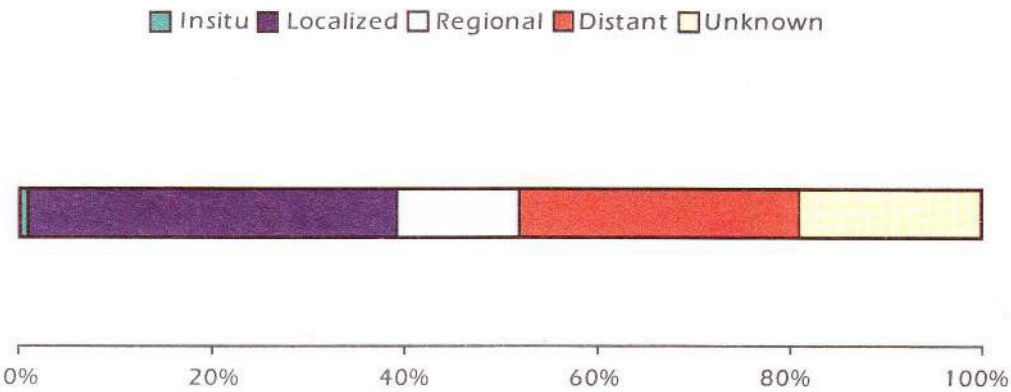
I- Average age-specific incidence rate (AIR) for prostate cancer in Saudi Arabia, 1994-1996



III- Histology of prostate cancer in Saudi Arabia, 1994-1996

ICD-O code	Histology	%
814039	Adenocarcinoma, NOS	82.1
801039	Carcinoma, NOS	12.3
	Other	5.6

IV- Stage distribution of prostate cancer in Saudi Arabia, 1994-1996

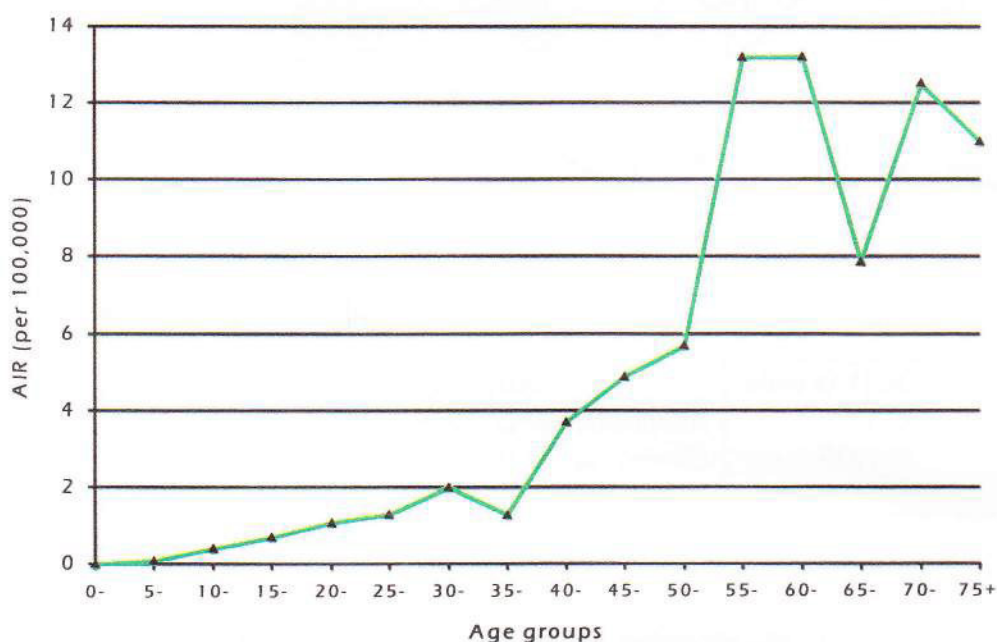


Ovarian cancer

Between January 1994 and December 1996 there were 325 cases of ovarian cancer among Saudis. These ovarian cancer cases accounted for 4.3% of all newly diagnosed cancers for females. The ASR was 3.1/100,000 for female. This cancer ranked 6th for females. The mean age at diagnosis was 48.0 years.

Cancer of the ovary is the fifteenth most common cancer in the world, and is the seventh in women. The estimated number of cases in 1996 was 191,000 worldwide. Incidence rates were slightly more in developing than in developed countries.

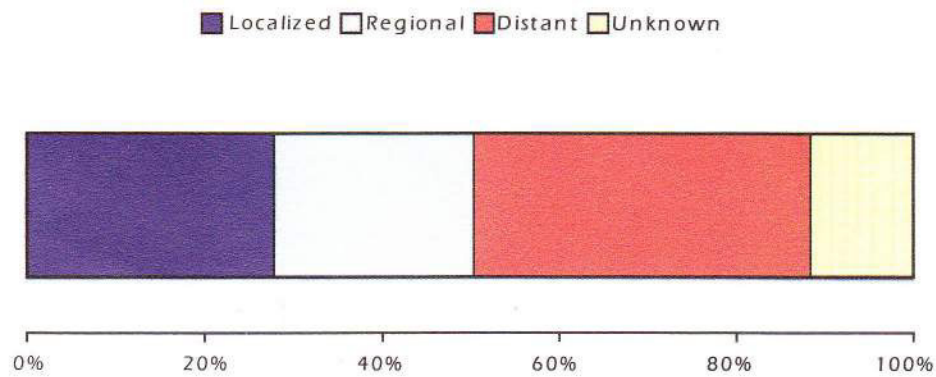
I- Average age-specific incidence rate (AIR) for ovarian cancer in Saudi Arabia, 1994-1996



III- Histology of ovarian cancer in Saudi Arabia, 1994-1996

ICD-O code	Histology	%
814039	Adenocarcinoma, NOS	17.5
846039	Papillary serous cystadenocarcinoma	11.4
801039	Carcinoma, NOS	7.1
847039	Mucinous cystadenocarcinoma, NOS	7.0
826039	Papillary carcinoma, NOS	5.0
	Other	52.0

IV- Stage distribution of ovarian cancer in Saudi Arabia, 1994-1996

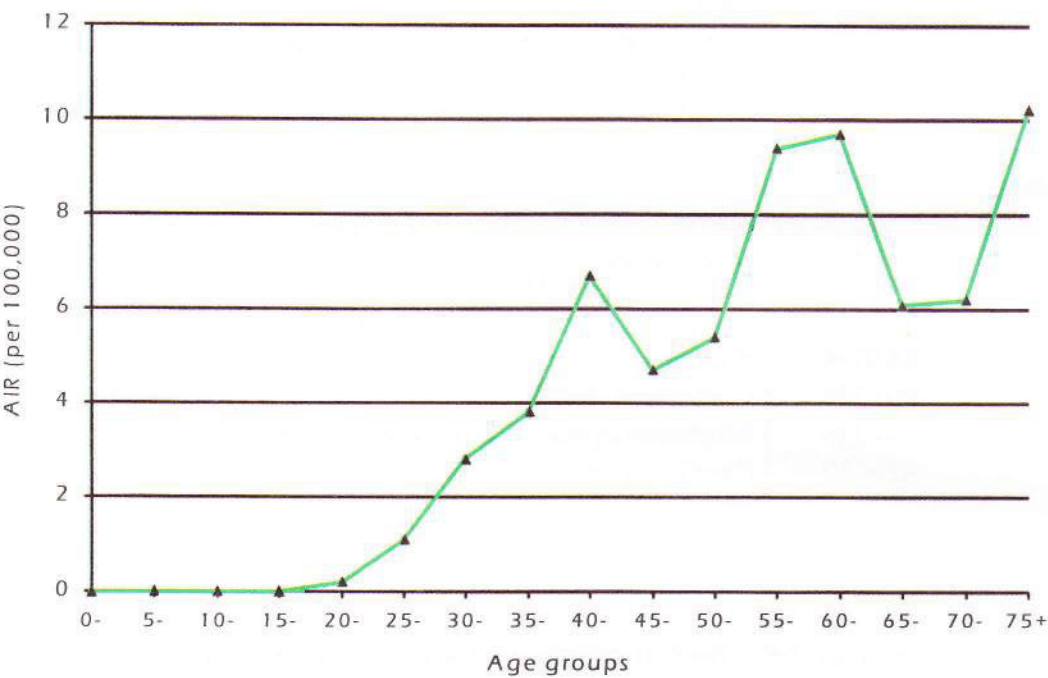


Cervical cancer

Between January 1994 and December 1996 there were 287 cases of cancer of the cervix among Saudis. These cancer cervix cases accounted for 3.8% of all newly diagnosed cancers for females. The ASR was 2.7/100,000 female population. This cancer ranked 8th for females. The mean age at diagnosis was 49.2 years.

Cervical cancer is the seventh most common cancer in the world, and is the second in women. The estimated number of cases in 1996 was 525,000 worldwide. The highest incidence rates were in sub-Saharan Africa, Southeast Asia and Latin America.

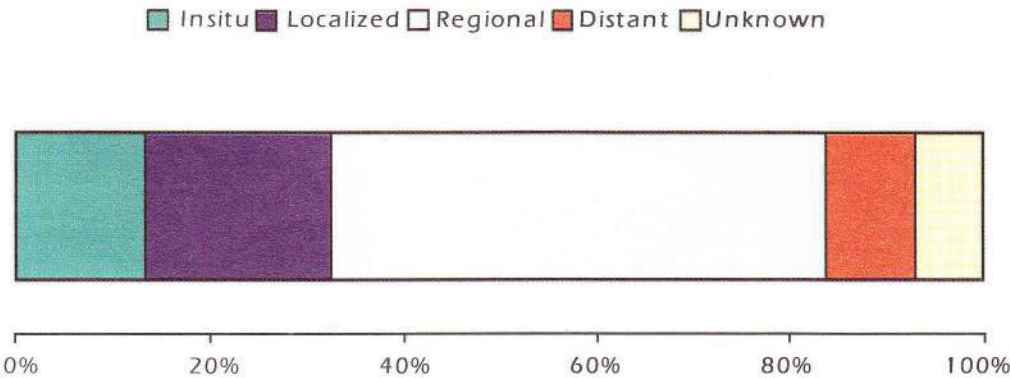
I- Average age-specific incidence rate (AIR) for cervical cancer in Saudi Arabia, 1994-1996



III- Histology of cervical cancer in Saudi Arabia, 1994-1996

ICD-O code	Histology	%
807039	Squamous cell carcinoma, NOS	51.9
814039	Adenocarcinoma, NOS	10.4
801039	Carcinoma, NOS	8.7
807239	Squamous cell carcinoma, non-keratinizing, NOS	8.4
807139	Squamous cell carcinoma, keratinizing, NOS	5.9
	Other	14.7

IV- Stage distribution of cervical cancer in Saudi Arabia, 1994-1996



PART III

TABLES OF NEW CANCER CASES AND INCIDENCE RATES IN SAUDI ARABIA,
1994-1996

Tables

- Table 1-** New cases in 1994-1996 for Saudis by primary site for all, males and females
- Table 2-** Incidence rates in 1994-1996 for Saudis by primary site for all, males and females
- Table 3-** New cases in 1994 for Saudis by primary site for all, males and females
- Table 4-** Incidence rates in 1994 for Saudis by primary site for all, males and females
- Table 5-** New cases in 1995 for Saudis by primary site for all, males and females
- Table 6-** Incidence rates in 1995 for Saudis by primary site for all, males and females
- Table 7-** New cases in 1996 for Saudis by primary site for all , males and females
- Table 8-** Incidence rates in 1996 for Saudis by primary site for all, males and females
- Table 9-** New cases and incidence rates for Saudi Administrative Regions, 1994-1996
- Table10-** New cases in 1994-1996 for non-Saudis by primary site for all, males and females

Table 1.1 Age distribution of cancer cases for all Saudis, 1994-1996

ICD-O (I)	Unk.	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Tot.	%
ALL SITES	0	763	487	406	474	450	605	769	859	909	1040	1331	1523	1830	1294	1420	2134	16294	100
140:140 Lip	0	0	0	1	0	1	1	0	1	2	1	3	3	7	1	4	7	32	0.2
141:141 Tongue	0	0	0	0	0	3	2	3	3	14	7	14	19	19	18	25	20	147	0.9
142:142 Salivary gland	0	0	0	1	2	1	4	4	5	3	1	5	8	5	3	2	5	49	0.3
143:143 Gum	0	0	1	0	0	1	1	1	0	1	3	4	6	10	13	14	17	72	0.4
144:144 Floor of mouth	0	0	0	0	0	1	0	0	0	1	1	1	0	1	0	3	3	11	0.1
145:145 Other mouth	0	0	1	0	3	2	2	2	3	2	11	15	7	14	15	11	22	110	0.7
146:146 Oropharynx	0	0	2	3	0	2	1	2	0	4	12	5	8	12	13	7	18	89	0.6
147:147 Hypopharynx	0	3	4	12	23	18	16	33	25	28	44	39	42	31	22	14	19	373	2.3
148:148 Hypopharynx	0	0	0	0	0	2	2	4	8	8	5	8	4	10	7	8	22	88	0.5
149:149 Pharynx, NOS	0	0	0	0	0	2	0	2	0	0	1	0	4	1	2	0	3	15	0.1
150:150 Oesophagus	0	0	1	0	0	2	2	11	17	15	18	36	44	59	50	73	112	440	2.7
151:151 Stomach	0	1	1	1	0	9	16	20	22	22	47	70	81	98	89	106	155	738	4.5
152:152 Small intestine	0	4	1	0	2	3	3	1	0	5	3	4	12	15	7	13	13	86	0.5
153:153 Colon	0	2	1	4	2	9	9	17	35	27	43	66	59	76	41	45	53	489	3.0
154:154 Rectum	0	0	0	0	1	8	13	13	25	32	40	49	35	59	37	46	68	426	2.6
155:155 Liver	0	4	4	6	5	8	11	11	26	46	61	132	159	223	141	173	206	1216	7.4
156:156 Gallbladder etc.	0	0	0	0	0	0	2	4	2	12	15	17	29	37	18	31	34	201	1.2
157:157 Pancreas	0	0	0	0	0	2	2	6	6	6	18	34	32	37	30	24	47	244	1.5
158:158 Peritoneum etc.	0	5	4	1	0	2	1	2	1	1	1	5	2	0	1	2	2	30	0.2
159:159 Digestive organs, NOS	0	0	0	0	0	1	0	0	0	0	1	0	3	0	2	3	5	15	0.1
160:160 Nose, sinuses etc.	0	2	2	1	3	3	1	2	1	2	4	5	6	5	3	7	9	56	0.3
161:161 Larynx	0	0	0	2	0	1	3	1	6	11	12	19	25	21	26	21	32	180	1.1
162:162 Bronchus, lung	0	1	1	0	4	3	3	16	27	26	48	69	93	128	116	106	138	779	4.8
163:163 Pleura	0	0	1	0	0	2	2	0	1	3	1	2	3	9	7	3	2	36	0.2
164:164 Other thoracic organs	0	11	0	1	1	3	7	4	0	0	0	1	5	2	1	0	1	37	0.2
169:169 Haemato.& retic.sys	0	297	165	108	93	56	55	67	72	38	45	65	81	82	60	73	98	1455	8.9
170:170 Bone	0	5	16	57	55	32	13	10	7	10	6	8	12	6	2	5	5	249	1.5
171:171 Connective tissue	0	62	25	13	24	23	18	24	13	19	34	18	19	19	16	9	20	356	2.2
173:173 Skin	0	5	8	10	11	9	26	21	32	27	41	48	72	82	71	83	158	704	4.3
174:174 Female breast	0	0	0	1	2	13	80	141	197	188	175	166	133	141	75	55	63	1430	8.8
175:175 Male breast	0	0	0	0	0	0	0	3	2	4	3	3	5	3	4	1	6	34	0.2
179:179 Uterus	0	0	0	0	1	0	1	1	2	1	2	5	1	0	1	1	3	19	0.1
180:180 Cervix uteri	0	0	0	1	1	3	17	30	36	42	25	27	29	30	10	11	25	287	1.8
181:181 Placenta	0	0	0	0	5	1	7	4	5	3	4	3	0	0	0	0	0	32	0.2
182:182 Corpus uteri	0	0	0	0	1	4	0	5	8	7	13	24	26	29	13	13	16	159	1.0
183:183 Ovary etc.	0	1	2	12	16	20	19	21	13	23	26	28	41	41	13	22	27	325	2.0
184:184 Other female genital	0	1	0	0	0	0	1	2	3	1	8	5	1	3	3	5	10	43	0.3
185:185 Prostate	0	1	0	0	0	0	1	0	1	6	3	13	21	60	67	93	198	464	2.8
186:186 Testis	0	7	4	2	6	11	12	10	4	14	5	0	6	1	0	2	5	89	0.6
187:187 Other male genital	0	1	0	0	0	0	1	0	0	0	0	0	1	4	0	1	3	11	0.1
188:188 Bladder	0	6	0	1	0	6	13	9	27	27	32	46	75	73	63	69	131	578	3.6
189:189 Kidney	0	84	19	2	2	2	7	13	10	25	21	33	43	48	29	20	30	388	2.4
190:190 Eye	0	53	4	2	1	0	2	3	0	3	1	3	6	14	9	12	13	126	0.8
191:191 Brain	0	100	84	55	42	23	36	27	30	24	18	50	41	39	26	22	15	632	3.9
192:192 Other nervous system	0	7	2	5	3	2	3	1	0	2	0	0	2	3	1	0	1	32	0.2
193:193 Thyroid	0	0	3	16	37	69	98	112	101	71	73	48	58	72	27	44	54	883	5.4
194:194 Other endocrine	0	25	6	4	2	1	3	1	1	3	2	2	4	1	2	1	0	58	0.3
195:195 Ill defined sites	0	5	4	2	4	1	3	6	3	5	1	5	6	9	4	10	13	81	0.5
196:196 Lymph nodes	0	58	112	78	111	72	68	67	51	57	62	77	78	105	67	70	110	1243	7.6
199:199 Unknown primary site	0	12	9	4	11	13	17	32	27	38	42	51	73	86	68	57	117	657	4.0

Table 1.2 Age distribution of cancer cases for Saudi males, 1994-1996

ICD-O (1)		Unk	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75+	Tot	%
ALL SITES		0	448	289	216	253	200	234	296	320	373	438	631	852	1049	807	917	1468	8791	100
140:140	Lip	0	0	0	0	0	1	0	0	1	2	1	1	2	5	0	4	6	23	0.3
141:141	Tongue	0	0	0	0	0	2	1	1	2	1	2	5	14	8	9	16	14	75	0.8
142:142	Salivary gland	0	0	0	0	0	1	1	1	4	1	1	2	8	3	1	1	3	27	0.3
143:143	Gum	0	0	1	0	0	1	0	0	0	0	3	1	5	3	10	7	5	36	0.4
144:144	Floor of mouth	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	3	6	0.1
145:145	Other mouth	0	0	0	0	1	0	1	1	0	0	5	6	2	8	9	7	7	47	0.5
146:146	Oropharynx	0	0	2	3	0	0	0	2	0	3	6	0	8	8	12	5	17	66	0.8
147:147	Nasopharynx	0	1	2	10	9	6	9	20	15	19	34	19	39	24	17	10	13	247	2.8
148:148	Hypopharynx	0	0	0	0	0	0	1	2	2	2	0	4	2	5	3	3	17	41	0.5
149:149	Pharynx, NOS	0	0	0	0	0	1	0	1	0	0	0	0	3	1	0	0	0	6	0.1
150:150	Oesophagus	0	0	1	0	0	2	1	4	9	9	7	12	16	32	27	39	73	232	2.6
151:151	Stomach	0	0	0	0	0	3	7	13	18	14	28	39	47	66	60	72	112	479	5.4
152:152	Small intestine	0	3	1	0	1	3	2	1	0	2	1	2	6	7	2	6	8	45	0.5
153:153	Colon	0	0	1	2	0	6	5	9	17	9	17	35	35	36	22	23	31	248	2.9
154:154	Rectum	0	0	0	0	1	5	9	10	17	14	22	29	21	32	24	33	47	264	3.0
155:155	Liver	0	3	3	6	1	3	9	7	16	31	41	86	117	175	107	142	159	906	10.3
156:156	Gallbladder etc.	0	0	0	0	0	0	1	2	0	5	2	7	15	15	7	12	17	83	0.9
157:157	Pancreas	0	0	0	0	0	1	0	2	5	5	14	22	15	26	14	15	38	157	1.8
158:158	Peritoneum etc.	0	3	2	1	0	1	1	1	1	1	1	1	1	0	1	0	1	16	0.2
159:159	Digestive organs, NOS	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	2	4	9	0.1
160:160	Nose, sinuses etc.	0	0	1	0	0	2	0	2	1	2	2	3	5	4	1	4	4	31	0.3
161:161	Larynx	0	0	0	2	0	0	2	1	4	9	10	18	23	19	24	20	26	158	1.8
162:162	Bronchus, lung	0	0	0	0	3	2	2	9	19	19	33	53	74	109	91	88	110	612	7.0
163:163	Pleura	0	0	1	0	0	1	2	0	1	2	0	1	3	6	7	2	2	28	0.3
164:164	Other thoracic organs	0	7	0	0	1	1	4	3	0	0	0	1	0	1	0	0	1	19	0.2
169:169	Haemato & retic.sys	0	174	97	62	59	32	28	42	34	20	22	38	46	48	37	57	74	870	9.8
170:170	Bone	0	2	11	27	37	23	5	10	2	5	2	7	5	2	1	3	4	146	1.6
171:171	Connective tissue	0	39	17	6	16	11	9	14	7	11	19	13	12	13	9	7	15	218	2.5
173:173	Skin	0	3	4	7	8	4	13	16	22	16	22	24	48	52	41	47	108	435	5.0
175:175	Male breast	0	0	0	0	0	0	0	3	2	4	3	3	5	3	4	1	6	34	0.4
185:185	Prostate	0	1	0	0	0	0	1	0	1	6	3	13	21	60	67	93	198	464	5.3
186:186	Testis	0	7	4	2	6	11	12	10	4	14	5	0	6	1	0	2	5	89	1.0
187:187	Other male genital	0	1	0	0	0	0	1	0	0	0	0	0	1	4	0	1	3	11	0.1
188:188	Bladder	0	4	0	1	0	2	7	7	20	22	24	34	66	62	58	54	117	478	5.4
189:189	Kidney	0	45	3	1	2	1	3	2	6	15	13	24	29	30	23	15	25	237	2.7
190:190	Eye	0	28	2	0	0	0	2	1	0	3	1	2	4	5	6	7	10	71	0.8
191:191	Brain	0	61	42	28	27	13	19	17	18	20	10	30	29	29	18	16	10	387	4.4
192:192	Other nervous system	0	4	0	2	1	1	2	1	0	0	0	0	0	2	1	0	0	14	0.2
193:193	Thyroid	0	0	1	4	6	10	12	19	19	21	21	14	21	24	11	16	26	225	2.6
194:194	Other endocrine	0	16	2	1	2	1	3	1	0	2	1	2	2	1	2	1	0	37	0.4
195:195	Ill defined sites	0	3	3	2	3	0	2	3	3	1	1	5	3	4	2	5	8	48	0.5
196:196	Lymph nodes	0	39	81	48	65	42	46	42	36	36	40	52	45	71	43	49	70	805	9.2
199:199	Unknown primary site	0	4	7	1	4	7	11	16	14	26	19	23	46	45	36	31	71	361	4.1

Table 1.3 Age distribution of cancer cases for Saudi females, 1994-1996

ICD-O [1]	Unk	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75+	Tot.	%
ALL SITES	0	315	198	190	221	250	371	473	539	536	602	700	671	781	487	503	666	7503	100
140:140 Lip	0	0	0	1	0	0	1	0	0	0	0	2	1	2	1	0	1	9	0.1
141:141 Tongue	0	0	0	0	0	1	1	2	1	13	5	9	5	11	9	9	6	72	1.0
142:142 Salivary gland	0	0	0	1	2	0	3	3	1	2	0	3	0	2	2	1	2	22	0.3
143:143 Gum	0	0	0	0	0	0	1	1	0	1	0	3	1	7	3	7	12	36	0.5
144:144 Floor of mouth	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	2	0	5	0.1
145:145 Other mouth	0	0	1	0	2	2	1	1	3	2	6	9	5	6	6	4	15	63	0.8
146:146 Oropharynx	0	0	0	0	0	2	1	0	0	1	6	5	0	4	1	2	1	23	0.3
147:147 Nasopharynx	0	2	2	2	14	12	7	13	10	9	10	20	3	7	5	4	6	126	1.7
148:148 Hypopharynx	0	0	0	0	0	2	1	2	6	6	5	4	2	5	4	5	5	47	0.6
149:149 Pharynx, NOS	0	0	0	0	0	1	0	1	0	0	1	0	1	0	2	0	3	9	0.1
150:150 Oesophagus	0	0	0	0	0	0	1	7	8	6	11	24	28	27	23	34	39	208	2.8
151:151 Stomach	0	1	1	1	0	6	9	7	4	8	19	31	34	32	29	34	43	259	3.5
152:152 Small intestine	0	1	0	0	1	0	1	0	0	3	2	2	6	8	5	7	5	41	0.6
153:153 Colon	0	2	0	2	2	3	4	8	18	18	26	31	24	40	19	22	22	241	3.2
154:154 Rectum	0	0	0	0	0	3	4	3	8	18	18	20	14	27	13	13	21	162	2.2
155:155 Liver	0	1	1	0	4	5	2	4	10	15	20	46	42	48	34	31	47	310	4.1
156:156 Gallbladder etc.	0	0	0	0	0	0	1	2	2	7	13	10	14	22	11	19	17	118	1.6
157:157 Pancreas	0	0	0	0	0	1	2	4	1	1	4	12	17	11	16	9	9	87	1.2
158:158 Peritoneum etc.	0	2	2	0	0	1	0	1	0	0	0	4	1	0	0	2	1	14	0.2
159:159 Digestive organs, NOS	0	0	0	0	0	1	0	0	0	0	0	0	1	0	2	1	1	6	0.1
160:160 Nose, sinuses etc.	0	2	1	1	3	1	1	0	0	0	2	2	1	1	2	3	5	25	0.3
161:161 Larynx	0	0	0	0	0	1	1	1	0	2	2	1	2	2	2	1	6	22	0.3
162:162 Bronchus, lung	0	1	1	0	1	1	1	7	8	7	15	16	19	19	25	18	28	167	2.2
163:163 Pleura	0	0	0	0	0	1	0	0	0	1	1	1	0	3	0	1	0	8	0.1
164:164 Other thoracic organs	0	4	0	1	0	2	3	1	0	0	0	0	5	1	1	0	0	18	0.3
169:169 Haemato. & retic. sys	0	123	68	46	34	24	27	25	38	18	23	27	35	34	23	16	24	585	7.8
170:170 Bone	0	3	5	30	18	9	8	0	5	5	4	1	7	4	1	2	1	103	1.4
171:171 Connective tissue	0	23	8	7	8	12	9	10	6	8	15	5	7	6	7	2	5	138	1.8
173:173 Skin	0	2	4	3	3	5	13	5	10	11	19	24	24	30	30	36	50	269	3.6
174:174 Female breast	0	0	0	1	2	13	80	141	197	188	175	166	133	141	75	55	63	1430	19.1
179:179 Uterus	0	0	0	0	1	0	1	1	2	1	2	5	1	0	1	1	3	19	0.3
180:180 Cervix uteri	0	0	0	1	1	3	17	30	36	42	25	27	29	30	10	11	25	287	3.8
181:181 Placenta	0	0	0	0	5	1	7	4	5	3	4	3	0	0	0	0	0	32	0.4
182:182 Corpus uteri	0	0	0	0	1	4	0	5	8	7	13	24	26	29	13	13	16	159	2.1
183:183 Ovary etc.	0	1	2	12	16	20	19	21	13	23	26	28	41	41	13	22	27	325	4.3
184:184 Other female genital	0	1	0	0	0	0	1	2	3	1	8	5	1	3	3	5	10	43	0.6
188:188 Bladder	0	2	0	0	0	4	6	2	7	5	8	12	9	11	5	15	14	100	1.3
189:189 Kidney	0	39	16	1	0	1	4	11	4	10	8	9	14	18	6	5	5	151	2.0
190:190 Eye	0	25	2	2	1	0	0	2	0	0	0	1	2	9	3	5	3	55	0.7
191:191 Brain	0	39	42	27	15	10	17	10	12	4	8	20	12	10	8	6	5	245	3.3
192:192 Other nervous system	0	3	2	3	2	1	1	0	0	2	0	0	2	1	0	0	1	18	0.2
193:193 Thyroid	0	0	2	12	31	59	86	93	82	50	52	34	37	48	16	28	28	658	8.8
194:194 Other endocrine	0	9	4	3	0	0	0	0	1	1	1	0	2	0	0	0	0	21	0.3
195:195 Ill defined sites	0	2	1	0	1	1	1	3	0	4	0	0	3	5	2	5	5	33	0.4
196:196 Lymph nodes	0	19	31	30	46	30	22	25	15	21	22	25	33	34	24	21	40	438	5.9
199:199 Unknown primary site	0	8	2	3	7	6	6	16	13	12	23	28	27	41	32	26	46	296	3.9

Table 2.1 Incidence rates for cancer cases among Saudis by age group (/100,000 population), 1994-1996

ICD-O (1)	Tot	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75+	CR	ASR	S.E.
ALL SITES	16294	10.6	6.9	6.8	10.6	12.9	20.9	35.5	46.8	74.2	98.8	136.6	217.0	249.0	323.4	361.6	388.3	39.6	71.7	100
140:140 Lip	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.3	0.4	0.9	0.3	1.0	1.3	0.1	0.2	0.0
141:141 Tongue	147	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	1.1	0.7	1.4	2.7	2.5	4.5	6.4	3.7	0.4	0.7	0.1
142:142 Salivary gland	49	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.3	0.2	0.1	0.5	1.1	0.7	0.7	0.5	0.9	0.1	0.2	0.1
143:143 Gum	72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.8	1.4	3.2	3.5	3.1	0.2	0.3	0.1
144:144 Floor of mouth	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.8	0.5	0.0	0.1	0.0
145:145 Other mouth	110	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.1	1.1	1.5	1.0	1.9	3.8	2.8	4.0	0.3	0.5	0.1
146:146 Oropharynx	89	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.3	1.2	0.5	1.1	1.6	3.3	1.8	3.3	0.2	0.4	0.1
147:147 Nasopharynx	373	0.0	0.0	0.2	0.5	0.5	0.6	1.5	1.4	2.3	4.2	4.0	6.0	4.2	5.5	3.6	3.5	0.9	1.7	0.2
148:148 Hypopharynx	88	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.7	0.5	0.8	0.5	1.4	1.7	2.0	4.0	0.2	0.4	0.1
149:149 Pharynx, NOS	15	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.6	0.1	0.5	0.0	0.5	0.0	0.1	0.0
150:150 Oesophagus	440	0.0	0.0	0.0	0.0	0.1	0.1	0.5	0.9	1.2	1.7	3.7	6.3	8.0	12.5	18.7	20.3	1.1	2.2	0.2
151:151 Stomach	738	0.0	0.0	0.0	0.0	0.2	0.5	0.9	1.2	1.8	4.4	7.2	11.6	13.3	22.2	27.0	28.2	1.8	3.7	0.2
152:152 Small intestine	86	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.4	0.3	0.4	1.7	2.1	1.7	3.3	2.3	0.2	0.4	0.1
153:153 Colon	489	0.0	0.0	0.0	0.1	0.3	0.3	0.8	1.9	2.2	4.1	6.8	8.3	10.4	10.3	11.4	9.6	1.2	2.4	0.2
154:154 Rectum	426	0.0	0.0	0.0	0.0	0.2	0.4	0.6	1.4	2.6	3.8	5.0	5.0	8.1	9.3	11.7	12.4	1.0	2.1	0.2
155:155 Liver	1216	0.0	0.1	0.1	0.1	0.2	0.4	0.5	1.4	3.8	5.8	13.6	22.7	30.3	35.2	43.9	37.5	3.0	6.3	0.3
156:156 Gallbladder etc.	201	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	1.0	1.5	1.8	4.2	5.1	4.5	7.8	6.2	0.5	1.0	0.1
157:157 Pancreas	244	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.5	1.7	3.4	4.6	5.0	7.5	6.1	8.6	0.6	1.3	0.1
158:158 Peritoneum etc.	30	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.5	0.3	0.0	0.2	0.5	0.3	0.1	0.1	0.0
159:159 Digestive organs, NOS	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.4	0.0	0.5	0.8	0.9	0.0	0.1	0.0
160:160 Nose, sinuses etc.	56	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.4	0.5	0.8	0.7	0.7	1.8	1.7	0.1	0.2	0.1
161:161 Larynx	180	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.9	1.2	2.0	3.6	2.9	6.5	5.3	5.8	0.4	0.9	0.1
162:162 Bronchus, lung	779	0.0	0.0	0.0	0.1	0.1	0.1	0.7	1.5	2.1	4.6	7.1	13.3	17.4	29.0	26.9	25.1	1.9	4.1	0.3
163:163 Pleura	36	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.2	0.1	0.2	0.4	1.2	1.7	0.8	0.4	0.1	0.2	0.1
164:164 Other thoracic organs	37	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.1	0.7	0.3	0.2	0.0	0.2	0.1	0.1	0.0
165:165 Haemato & retic.sys	1455	4.1	2.4	1.8	2.1	1.6	1.9	3.1	3.9	3.1	4.3	6.7	11.5	11.1	15.1	18.7	17.8	3.5	4.7	0.2
170:170 Bone	249	0.1	0.2	0.9	1.2	0.9	0.4	0.4	0.4	0.8	0.6	0.8	1.7	0.8	0.5	1.3	0.9	0.6	0.6	0.1
171:171 Connective tissue	356	0.9	0.3	0.2	0.5	0.6	0.6	1.1	0.7	1.6	3.2	1.9	2.7	2.6	4.0	2.3	3.7	0.9	1.2	0.1
173:173 Skin	704	0.0	0.1	0.2	0.3	0.3	0.9	1.0	1.7	2.2	3.9	5.0	10.2	11.2	17.8	21.0	28.7	1.7	3.3	0.2
174:174 Female breast	1430	0.0	0.0	0.0	0.1	0.4	2.8	6.5	10.7	15.3	16.6	17.0	18.9	19.1	18.7	14.1	11.4	3.5	6.7	0.3
175:175 Male breast	34	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.3	0.7	0.4	1.0	0.3	1.1	0.1	0.2	0.1
179:179 Uterus	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.5	0.1	0.0	0.2	0.2	0.5	0.0	0.1	0.0
180:180 Cervix uteri	287	0.0	0.0	0.0	0.0	0.1	0.6	1.4	1.9	3.4	2.4	2.8	4.1	4.1	2.5	2.8	4.5	0.7	1.3	0.1
181:181 Placenta	32	0.0	0.0	0.0	0.1	0.0	0.2	0.2	0.3	0.2	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
182:182 Corpus uteri	159	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.5	0.6	1.3	2.5	3.7	3.9	3.2	3.3	3.0	0.4	0.8	0.1
183:183 Ovary etc.	325	0.0	0.0	0.2	0.4	0.6	0.6	1.0	0.7	1.9	2.5	2.9	5.9	5.6	3.2	5.6	4.9	0.8	1.4	0.1
184:184 Other female genital	43	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.8	0.5	0.1	0.4	0.8	1.3	1.8	0.1	0.2	0.1
185:185 Prostate	464	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.3	1.3	3.0	8.1	16.7	23.7	36.0	1.1	2.3	0.2
186:186 Testis	89	0.1	0.1	0.0	0.1	0.3	0.4	0.5	0.2	1.1	0.5	0.0	0.9	0.1	0.0	0.5	0.9	0.2	0.3	0.1
187:187 Other male genital	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.0	0.3	0.6	0.0	0.1	0.0
188:188 Bladder	578	0.1	0.0	0.0	0.0	0.2	0.4	0.4	1.5	2.2	3.0	4.7	10.6	10.0	15.7	17.6	23.9	1.4	2.9	0.2
189:189 Kidney	388	1.2	0.2	0.0	0.1	0.1	0.2	0.6	0.6	2.0	2.0	3.4	6.2	6.5	7.2	5.1	5.4	1.0	1.6	0.2
190:190 Eye	126	0.7	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.2	0.1	0.3	0.8	1.9	2.2	3.1	2.4	0.3	0.4	0.1
191:191 Brain	632	1.4	1.2	0.9	1.0	0.7	1.2	1.2	1.6	2.0	1.7	5.1	5.9	5.3	6.5	5.6	2.7	1.5	2.0	0.2
192:192 Other nervous system	32	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.2	0.0	0.0	0.3	0.4	0.2	0.0	0.2	0.1	0.1	0.0
193:193 Thyroid	883	0.0	0.0	0.3	0.9	2.0	3.4	5.1	5.5	5.8	6.9	4.9	8.3	9.9	6.8	11.2	9.9	2.2	3.5	0.2
194:194 Other endocrine	58	0.3	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.2	0.2	0.6	0.1	0.5	0.1	0.5	0.2	0.0	0.1	0.2
195:195 Ill defined sites	81	0.0	0.0	0.0	0.1	0.0	0.1	0.3	0.2	0.4	0.1	0.5	0.9	1.2	1.0	2.5	2.4	0.2	0.3	0.1
196:196 Lymph nodes	1243	0.8	1.6	1.3	2.5	2.1	2.4	3.1	2.8	4.7	5.9	7.9	11.1	14.3	16.7	17.9	20.0	3.0	4.6	0.3
199:199 Unknown primary site	657	0.1	0.1	0.1	0.2	0.4	0.6	1.5	1.5	3.1	4.0	5.2	10.5	11.7	17.0	14.6	21.3	1.6	3.1	0.2

Table 2.2 Incidence rates for cancer cases among Saudi males by age group (/100,000 population), 1994-1996

ICD-O (I)	Tot	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75+	GIR	ASR	S.E.
ALL SITES	8791	12.3	8.1	7.1	11.5	11.4	16.9	27.1	36.1	62.1	85.1	131.4	217.5	246.5	339.9	422.5	478.6	42.3	72.2	1.4
140:140 Lip	23	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.3	0.2	0.2	0.5	1.2	0.0	1.8	2.0	0.1	0.2	0.1
141:141 Tongue	75	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.4	1.1	3.6	1.8	3.8	7.4	4.6	0.4	0.7	0.1
142:142 Salivary gland	27	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.4	0.2	0.2	0.4	2.0	0.7	0.4	0.5	1.0	0.1	0.3	0.1
143:143 Gum	36	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.6	0.2	1.3	0.7	4.2	3.2	1.6	0.2	0.3	0.1
144:144 Floor of mouth	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.4	1.0	0.0	0.0	0.0
145:145 Other mouth	47	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	1.0	1.2	0.5	1.9	3.8	3.2	2.3	0.2	0.5	0.1
146:146 Oropharynx	66	0.0	0.1	0.1	0.0	0.0	0.0	0.2	0.0	0.5	1.2	0.0	2.1	1.8	5.1	2.3	5.6	0.3	0.6	0.1
147:147 Nasopharynx	247	0.0	0.1	0.3	0.4	0.3	0.6	1.8	1.7	3.1	6.5	3.9	9.9	5.6	7.2	4.6	4.3	1.2	2.2	0.3
148:148 Hypopharynx	41	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.0	0.8	0.5	1.2	1.3	1.3	5.5	0.2	0.3	0.1
149:149 Pharynx, NOS	6	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.8	0.2	0.0	0.0	0.0	0.0	0.1	0.0
150:150 Oesophagus	232	0.0	0.0	0.0	0.0	0.1	0.1	0.4	1.0	1.5	1.4	2.5	4.1	7.5	11.4	18.1	23.7	1.1	2.0	0.2
151:151 Stomach	479	0.0	0.0	0.0	0.0	0.2	0.5	1.2	2.0	2.3	5.4	8.1	12.0	15.6	25.3	33.2	36.6	2.3	4.4	0.4
152:152 Small intestine	45	0.1	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.3	0.2	0.4	1.5	1.7	0.8	2.8	2.6	0.2	0.4	0.1
153:153 Colon	248	0.0	0.0	0.1	0.0	0.3	0.3	0.8	1.9	1.5	3.2	7.3	8.9	8.5	9.3	10.6	10.0	1.2	2.2	0.3
154:154 Rectum	264	0.0	0.0	0.0	0.0	0.3	0.6	0.9	1.9	2.4	4.3	6.1	5.4	7.6	10.2	15.1	15.3	1.3	2.4	0.3
155:155 Liver	906	0.1	0.1	0.2	0.0	0.2	0.6	0.6	1.8	5.2	8.0	18.0	29.9	41.1	45.0	65.2	51.8	4.3	8.5	0.5
156:156 Gallbladder etc.	83	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.8	0.4	1.4	3.8	3.5	2.9	5.5	5.6	0.4	0.8	0.1
157:157 Pancreas	157	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.6	0.8	2.7	4.5	3.8	6.1	5.8	7.0	12.5	0.8	1.4	0.2
158:158 Peritoneum etc.	16	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.0	0.4	0.0	0.3	0.1	0.1	0.1
159:159 Digestive organs, NOS	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.5	0.0	0.0	1.0	1.3	0.0	0.1	0.0
160:160 Nose, sinuses etc.	31	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.1	0.3	0.4	0.6	1.2	1.0	0.4	1.8	1.3	0.2	0.3	0.1
161:161 Larynx	158	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.5	1.5	1.9	3.8	5.9	4.5	10.1	9.2	8.4	0.8	1.5	0.2
162:162 Bronchus, lung	612	0.0	0.0	0.0	0.1	0.1	0.1	0.8	2.2	3.2	6.5	11.0	19.0	25.5	38.2	40.4	35.8	2.9	5.8	0.4
163:163 Pleura	28	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.3	0.0	0.2	0.8	1.4	2.9	0.9	0.6	0.1	0.3	0.1
164:164 Other thoracic organs	19	0.2	0.0	0.0	0.0	0.1	0.3	0.3	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.3	0.1	0.1	0.0
169:169 Haemato & retic.sys	870	4.7	2.8	2.0	2.6	1.8	2.0	3.9	3.8	3.3	4.3	7.9	11.7	11.2	15.7	26.5	24.1	4.2	5.3	0.4
170:170 Bone	146	0.1	0.3	0.9	1.7	1.3	0.3	0.9	0.2	0.9	0.4	1.4	1.3	0.5	0.4	1.4	1.3	0.7	0.8	0.1
171:171 Connective tissue	218	1.1	0.5	0.2	0.7	0.6	0.6	1.3	0.8	1.9	3.7	2.7	3.1	3.1	3.8	3.2	5.0	1.1	1.5	0.2
173:173 Skin	435	0.1	0.1	0.2	0.4	0.3	0.9	1.5	2.5	2.7	4.3	5.0	12.2	12.2	17.3	21.6	35.1	2.1	3.7	0.3
175:175 Male breast	34	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.7	0.6	0.6	1.3	0.7	1.7	0.5	1.9	0.2	0.3	0.1
185:185 Prostate	464	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	1.0	0.6	2.7	5.4	14.0	28.2	42.8	64.5	2.2	4.0	0.3
186:186 Testis	89	0.2	0.1	0.1	0.3	0.6	0.9	0.9	0.4	2.3	1.0	0.0	1.6	0.2	0.0	0.9	1.6	0.4	0.6	0.1
187:187 Other male genital	11	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	1.0	0.0	0.5	1.0	0.1	0.1	0.0
188:188 Bladder	478	0.1	0.0	0.0	0.0	0.1	0.5	0.7	2.3	3.7	4.7	7.1	16.7	14.7	24.5	25.0	38.3	2.3	4.3	0.4
189:189 Kidney	237	1.3	0.1	0.0	0.1	0.1	0.2	0.2	0.7	2.5	2.5	5.0	7.4	7.0	9.6	7.0	8.1	1.1	2.0	0.2
190:190 Eye	71	0.7	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.5	0.2	0.4	1.1	1.2	2.5	3.3	3.3	0.3	0.5	0.1
191:191 Brain	387	1.7	1.2	0.9	1.2	0.8	1.4	1.5	2.0	3.4	1.9	6.3	7.4	6.8	7.6	7.4	3.3	1.9	2.5	0.2
192:192 Other nervous system	14	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.5	0.4	0.0	0.0	0.1	0.1	0.0
193:193 Thyroid	225	0.0	0.0	0.1	0.3	0.6	0.8	1.8	2.1	3.5	4.1	2.9	5.4	5.7	4.6	7.3	8.6	1.1	1.9	0.2
194:194 Other endocrine	37	0.4	0.1	0.0	0.1	0.1	0.2	0.1	0.0	0.3	0.2	0.4	0.5	0.2	0.8	0.4	0.0	0.2	0.2	0.1
195:195 Ill defined sites	48	0.1	0.1	0.1	0.1	0.0	0.1	0.3	0.3	0.2	0.2	1.0	0.8	1.0	0.8	2.3	2.6	0.2	0.4	0.1
196:196 Lymph nodes	805	1.1	2.3	1.6	2.9	2.4	3.3	3.8	4.1	6.0	7.8	10.9	11.5	16.7	18.1	22.7	22.9	3.9	5.7	0.4
199:199 Unknown primary site	361	0.1	0.2	0.0	0.2	0.4	0.8	1.4	1.6	4.4	3.7	4.8	11.8	10.5	15.2	14.4	23.2	1.7	3.2	0.3

Table 2.3 Incidence rates for cancer cases among Saudi females by age group (/100,000 population), 1994-1996

ICD-O (1)	Tot	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	CIR	ASR	S.E.
ALL SITES	7503	8.9	5.6	6.4	9.8	14.4	24.5	44.1	56.8	85.8	111.9	141.6	216.4	252.4	299.3	286.2	274.0	36.8	70.1	1.5
140:140 Lip	9	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.0	0.4	0.3	0.6	0.6	0.0	0.4	0.0	0.1	0.1
141:141 Tongue	72	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1	2.1	0.9	1.8	1.6	3.5	5.5	5.2	2.5	0.4	0.8	0.2
142:142 Salivary gland	22	0.0	0.0	0.0	0.1	0.0	0.2	0.3	0.1	0.3	0.0	0.6	0.0	0.6	1.2	0.6	0.8	0.1	0.2	0.1
143:143 Gum	36	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.2	0.0	0.6	0.3	2.3	1.9	3.9	4.9	0.2	0.4	0.1
144:144 Floor of mouth	5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.0	1.1	0.0	0.0	0.1	0.0
145:145 Other mouth	63	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.3	1.1	1.8	1.6	2.0	3.6	2.3	6.1	0.3	0.6	0.2
146:146 Oropharynx	23	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.2	1.1	1.0	0.0	1.3	0.6	1.1	0.4	0.1	0.3	0.1
147:147 Nasopharynx	126	0.1	0.1	0.1	0.6	0.7	0.5	1.2	1.0	1.4	1.9	4.0	1.0	2.3	3.0	2.3	2.5	0.6	1.0	0.2
148:148 Hypopharynx	47	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.6	0.9	0.9	0.8	0.6	1.6	2.4	2.9	2.1	0.2	0.5	0.1
149:149 Pharynx, NOS	9	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.2	0.0	0.3	0.0	1.2	0.0	1.2	0.0	0.1	0.1
150:150 Oesophagus	208	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.8	1.0	2.1	4.8	9.1	8.6	14.2	19.5	16.0	1.0	2.4	0.3
151:151 Stomach	259	0.0	0.0	0.0	0.0	0.4	0.6	0.7	0.4	1.3	3.5	6.3	11.0	10.3	17.8	19.3	17.7	1.3	2.9	0.3
152:152 Small intestine	41	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.5	0.4	0.4	1.9	2.6	3.1	4.0	2.1	0.2	0.5	0.1
153:153 Colon	241	0.1	0.0	0.1	0.1	0.2	0.3	0.8	1.9	2.9	4.8	6.3	7.7	13.0	11.7	12.3	9.1	1.2	2.6	0.3
154:154 Rectum	162	0.0	0.0	0.0	0.0	0.2	0.3	0.3	0.8	2.9	3.3	4.0	4.6	8.8	7.9	7.5	8.6	0.8	1.8	0.3
155:155 Liver	310	0.0	0.0	0.0	0.2	0.3	0.1	0.4	1.1	2.4	3.7	9.4	13.6	15.5	21.0	17.4	19.4	1.5	3.5	0.4
156:156 Gallbladder etc.	118	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	1.1	2.5	2.1	4.5	7.1	6.8	10.8	7.1	0.6	1.4	0.2
157:157 Pancreas	87	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.1	0.2	0.8	2.4	5.5	3.6	9.9	5.0	3.7	0.5	1.1	0.2
158:158 Peritoneum etc.	14	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.8	0.3	0.0	0.0	1.1	0.4	0.1	0.1	0.0
159:159 Digestive organs, NOS	6	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.2	0.6	0.4	0.0	0.1	0.1
160:160 Nose, sinuses etc.	25	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.4	0.4	0.4	0.3	0.3	1.2	1.7	2.1	0.1	0.2	0.1
161:161 Larynx	22	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.2	0.3	0.4	0.2	0.7	0.7	1.2	0.5	2.5	0.1	0.2	0.1
162:162 Bronchus, lung	167	0.0	0.0	0.0	0.0	0.1	0.1	0.7	0.8	1.2	2.8	3.2	6.1	6.1	15.5	10.1	11.6	0.8	1.9	0.3
163:163 Pleura	8	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.2	0.2	0.0	1.0	0.0	0.6	0.0	0.0	0.1	0.1
164:164 Other thoracic organs	18	0.1	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.0	0.0	0.0	1.6	0.3	0.6	0.0	0.0	0.1	0.1	0.1
169:169 Haemato.& retic.sys	585	3.5	1.9	1.6	1.5	1.4	1.8	2.3	4.0	2.9	4.3	5.4	11.3	10.9	14.2	9.0	9.9	2.9	3.9	0.3
170:170 Bone	103	0.1	0.2	1.0	0.8	0.5	0.5	0.0	0.5	0.8	0.8	0.2	2.3	1.3	0.6	1.1	0.4	0.5	0.6	0.1
171:171 Connective tissue	138	0.7	0.3	0.2	0.4	0.7	0.6	0.9	0.6	1.3	2.8	1.0	2.3	1.9	4.3	1.2	2.0	0.7	1.0	0.2
173:173 Skin	269	0.1	0.1	0.1	0.1	0.3	0.9	0.5	1.0	1.7	3.6	5.0	7.7	9.7	18.5	20.3	20.6	1.3	2.8	0.3
174:174 Female breast	1430	0.0	0.0	0.0	0.1	0.7	5.3	13.2	20.7	30.1	32.4	33.5	43.0	45.4	45.9	31.5	25.9	7.0	14.0	0.7
179:179 Uterus	19	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.4	1.0	0.3	0.0	0.6	0.5	1.2	0.1	0.2	0.1
180:180 Cervix uteri	287	0.0	0.0	0.0	0.0	0.2	1.1	2.8	3.8	6.7	4.7	5.4	9.4	9.7	6.1	6.2	10.2	1.4	2.7	0.3
181:181 Placenta	32	0.0	0.0	0.0	0.2	0.1	0.5	0.4	0.5	0.5	0.7	0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1
182:182 Corpus uteri	159	0.0	0.0	0.0	0.0	0.2	0.0	0.5	0.9	1.1	2.5	4.9	8.3	9.4	8.0	7.5	6.7	0.8	1.8	0.3
183:183 Ovary etc.	325	0.0	0.1	0.4	0.7	1.1	1.3	2.0	1.3	3.7	4.9	5.7	13.2	13.2	7.9	12.5	11.0	1.6	3.1	0.3
184:184 Other female genital	43	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.2	1.5	1.0	0.3	1.0	1.9	2.8	4.1	0.2	0.4	0.1
188:188 Bladder	100	0.1	0.0	0.0	0.0	0.2	0.4	0.2	0.7	0.8	1.5	2.4	2.9	3.6	3.0	8.6	5.8	0.5	1.0	0.2
189:189 Kidney	151	1.1	0.5	0.0	0.0	0.1	0.3	1.0	0.4	1.6	1.5	1.8	4.5	5.8	3.7	2.8	2.1	0.7	1.2	0.2
190:190 Eye	55	0.7	0.1	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.6	2.9	1.8	2.8	1.3	0.3	0.4	0.1
191:191 Brain	245	1.1	1.2	0.9	0.7	0.6	1.1	0.9	1.3	0.6	1.4	4.0	3.9	3.2	4.8	3.4	2.0	1.2	1.5	0.2
192:192 Other nervous system	18	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.3	0.0	0.0	0.6	0.3	0.0	0.4	0.1	0.1	0.1	0.1
193:193 Thyroid	658	0.0	0.1	0.4	1.4	3.4	5.6	8.6	8.7	8.0	9.6	6.9	12.0	15.5	9.9	16.1	11.5	3.2	5.3	0.4
194:194 Other endocrine	21	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.0	0.7	0.0	0.0	0.0	0.0	0.1	0.1	0.0
195:195 Ill defined sites	33	0.1	0.0	0.0	0.0	0.1	0.1	0.3	0.0	0.6	0.0	0.0	0.9	1.6	1.2	2.8	2.1	0.2	0.3	0.1
196:196 Lymph nodes	438	0.6	0.9	1.0	2.0	1.7	1.5	2.3	1.6	3.4	4.1	5.0	10.6	11.1	14.8	12.1	16.2	2.2	3.5	0.3
199:199 Unknown primary site	296	0.2	0.1	0.1	0.3	0.3	0.4	1.5	1.3	1.9	4.2	5.6	8.7	13.3	19.7	14.8	18.9	1.5	3.1	0.3

Table 3.1 Age distribution of cancer for all Saudis, 1994

ICD-O (I)	Unk	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75+	Tot	%
ALL SITES	0	297	171	136	171	149	224	243	271	316	355	493	524	694	437	528	694	5703	100
140:140 Lip	0	0	0	0	0	0	0	0	1	2	1	1	1	2	1	1	3	13	0.2
141:141 Tongue	0	0	0	0	0	2	1	0	1	4	3	7	5	6	6	13	10	58	1
142:142 Salivary gland	0	0	0	0	1	0	1	2	1	1	0	0	3	3	0	1	1	14	0.2
143:143 Gum	0	0	1	0	0	0	0	0	0	0	0	1	2	3	3	3	1	14	0.2
144:144 Floor of mouth	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	4	0.1
145:145 Other mouth	0	0	1	0	0	1	1	1	1	0	7	2	3	5	5	2	5	34	0.6
146:146 Oropharynx	0	0	0	0	0	0	1	1	0	0	5	2	3	1	6	2	6	27	0.5
147:147 Nasopharynx	0	1	3	6	7	6	9	11	8	8	16	14	13	9	8	7	6	132	2.3
148:148 Hypopharynx	0	0	0	0	0	2	1	1	3	1	3	0	0	5	3	3	8	30	0.5
149:149 Pharynx, NOS	0	0	0	0	0	0	0	1	0	0	0	0	2	0	1	0	1	5	0.1
150:150 Oesophagus	0	0	0	0	0	0	0	3	7	3	9	12	18	22	20	37	31	162	2.8
151:151 Stomach	0	0	1	0	0	0	6	6	6	7	11	21	27	38	29	39	49	240	4.2
152:152 Small intestine	0	0	0	0	1	1	3	0	0	0	0	0	1	7	3	6	5	27	0.5
153:153 Colon	0	0	1	0	0	4	3	4	12	7	4	23	11	28	15	9	13	134	2.3
154:154 Rectum	0	0	0	0	0	2	1	5	6	13	6	18	16	31	14	16	24	152	2.7
155:155 Liver	0	1	0	2	2	3	6	3	12	18	21	57	58	82	45	52	73	435	7.6
156:156 Gallbladder etc.	0	0	0	0	0	0	1	2	1	5	10	9	11	13	6	10	12	80	1.4
157:157 Pancreas	0	0	0	0	0	1	2	1	0	1	5	8	11	12	11	7	20	79	1.4
158:158 Peritoneum etc.	0	3	1	1	0	1	1	0	0	1	0	0	0	0	0	1	0	9	0.2
159:159 Digestive organs, NOS	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	2	2	7	0.1
160:160 Nose, sinuses etc.	0	1	1	1	0	0	1	1	1	0	1	2	1	3	0	2	4	19	0.3
161:161 Larynx	0	0	0	2	0	1	1	1	2	2	6	8	14	11	6	6	9	69	1.2
162:162 Bronchus, lung	0	1	0	0	0	1	2	2	10	12	18	25	33	42	37	32	47	262	4.6
163:163 Pleura	0	0	0	0	0	1	1	0	1	2	0	1	2	2	2	2	1	15	0.3
164:164 Other thoracic organs	0	3	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	6	0.1
169:169 Haemato & retic sys	0	112	67	41	34	19	16	28	21	15	18	22	24	26	27	31	34	535	9.4
170:170 Bone	0	1	4	20	30	11	2	3	2	5	2	2	4	1	0	3	0	90	1.6
171:171 Connective tissue	0	32	10	3	8	5	6	9	5	10	8	4	8	7	7	3	10	135	2.4
173:173 Skin	0	3	2	3	3	4	12	6	11	9	16	25	23	30	28	21	48	244	4.3
174:174 Female breast	0	0	0	0	0	3	25	53	53	65	53	60	43	47	22	25	20	469	8.2
175:175 Male breast	0	0	0	0	0	0	0	1	0	2	0	0	1	2	2	1	2	11	0.2
179:179 Uterus	0	0	0	0	0	0	0	0	1	0	0	3	0	0	0	0	1	5	0.1
180:180 Cervix uteri	0	0	0	0	1	2	3	11	15	16	11	10	8	11	2	4	7	101	1.8
181:181 Placenta	0	0	0	0	2	1	3	2	0	1	3	2	0	0	0	0	0	14	0.2
182:182 Corpus uteri	0	0	0	0	0	2	0	1	3	1	9	10	4	14	7	8	7	66	1.2
183:183 Ovary etc.	0	0	1	4	5	4	7	7	3	6	12	12	13	15	1	9	5	104	1.8
184:184 Other female genital	0	0	0	0	0	0	1	0	1	0	5	5	0	1	2	2	1	18	0.3
185:185 Prostate	0	0	0	0	0	0	0	0	0	3	0	6	8	17	21	34	65	154	2.7
186:186 Testis	0	1	0	1	4	4	4	4	2	6	1	0	5	1	0	1	1	35	0.6
187:187 Other male genital	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	4	0.1
188:188 Bladder	0	3	0	0	0	3	4	5	9	7	13	16	19	32	20	30	48	209	3.7
189:189 Kidney	0	42	3	0	0	0	3	5	4	5	8	11	18	19	7	10	7	142	2.5
190:190 Eye	0	17	1	0	0	0	0	2	0	2	1	1	3	8	3	6	6	50	0.9
191:191 Brain	0	36	24	18	14	12	13	6	8	11	4	21	16	17	8	9	4	221	3.9
192:192 Other nervous system	0	3	1	3	2	0	0	1	0	1	0	0	1	1	0	0	1	14	0.2
193:193 Thyroid	0	0	1	7	14	26	37	28	30	24	26	20	23	33	10	18	18	315	5.5
194:194 Other endocrine	0	6	2	1	1	0	1	0	1	2	2	0	3	0	0	0	0	19	0.3
195:195 Ill defined sites	0	1	2	0	1	0	2	3	1	2	0	2	2	2	1	2	7	28	0.5
196:196 Lymph nodes	0	21	41	22	35	21	33	14	17	22	24	30	27	47	23	31	35	443	7.8
199:199 Unknown primary site	0	8	3	1	6	6	10	8	11	14	13	19	33	35	24	26	33	250	4.4

Table 3.2 Age distribution of cancer for Saudi males, 1994

ICD-O (1)		Unk.	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75+	Tot.	%
ALL SITES		0	180	94	75	89	71	89	99	103	146	147	236	310	401	263	347	501	3151	100
140:140	Lip	0	0	0	0	0	0	0	0	1	2	1	0	0	2	0	1	3	10	0.3
141:141	Tongue	0	0	0	0	0	1	1	0	1	1	0	5	5	1	3	8	7	33	1
142:142	Salivary gland	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	1	0	6	0.2
143:143	Gum	0	0	1	0	0	0	0	0	0	0	0	0	2	1	2	2	0	8	0.3
144:144	Floor of mouth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0.1
145:145	Other mouth	0	0	0	0	0	0	1	1	0	0	2	1	2	3	5	1	2	18	0.6
146:146	Oropharynx	0	0	0	0	0	0	0	1	0	0	3	0	3	1	6	2	5	21	0.7
147:147	Nasopharynx	0	1	1	4	2	3	5	7	5	5	10	8	12	6	7	5	5	86	2.7
148:148	Hypopharynx	0	0	0	0	0	0	1	1	0	1	0	0	0	2	2	0	4	11	0.3
149:149	Pharynx, NOS	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0.1
150:150	Oesophagus	0	0	0	0	0	0	0	0	4	2	4	3	6	14	10	19	19	81	2.6
151:151	Stomach	0	0	0	0	0	0	3	2	4	3	4	12	17	26	17	31	40	159	5
152:152	Small intestine	0	0	0	0	0	1	2	0	0	0	0	0	1	4	1	4	2	15	0.5
153:153	Colon	0	0	1	0	0	4	0	1	4	2	1	13	5	13	7	8	6	65	2.1
154:154	Rectum	0	0	0	0	0	2	1	4	4	9	3	11	9	20	12	8	18	101	3.2
155:155	Liver	0	1	0	2	0	2	5	3	6	12	13	34	43	64	30	44	56	315	10
156:156	Gallbladder etc.	0	0	0	0	0	0	0	0	0	3	1	1	5	5	2	3	5	25	0.8
157:157	Pancreas	0	0	0	0	0	0	0	0	0	1	3	4	5	8	5	7	16	49	1.6
158:158	Peritoneum etc.	0	2	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	5	0.2
159:159	Digestive organs, NOS	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	6	0.2
160:160	Nose, sinuses etc.	0	0	1	0	0	0	0	1	1	0	1	2	0	3	0	1	1	11	0.3
161:161	Larynx	0	0	0	2	0	0	0	1	2	1	5	8	12	10	5	6	6	58	1.8
162:162	Bronchus, lung	0	0	0	0	0	1	1	1	6	8	13	20	29	36	25	29	39	208	6.6
163:163	Pleura	0	0	0	0	0	0	1	0	1	2	0	0	2	0	2	1	1	10	0.3
164:164	Other thoracic organs	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0.1
169:169	Haemato.& retic.sys	0	71	41	21	23	9	7	20	10	8	12	17	13	19	17	27	29	344	10.9
170:170	Bone	0	1	1	10	19	8	1	3	1	5	1	2	1	0	0	2	0	55	1.7
171:171	Connective tissue	0	21	6	1	6	3	2	7	4	8	5	4	6	6	4	2	9	94	3
173:173	Skin	0	2	1	2	3	2	7	5	6	7	7	8	15	19	16	13	32	145	4.6
175:175	Male breast	0	0	0	0	0	0	0	1	0	2	0	0	1	2	2	1	2	11	0.3
185:185	Prostate	0	0	0	0	0	0	0	0	0	3	0	6	8	17	21	34	65	154	4.9
186:186	Testis	0	1	0	1	4	4	4	4	2	6	1	0	5	1	0	1	1	35	1.1
187:187	Other male genital	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	4	0.1
188:188	Bladder	0	2	0	0	0	1	2	5	9	6	11	12	17	26	19	24	44	178	5.6
189:189	Kidney	0	20	0	0	0	0	0	1	3	3	5	7	13	11	5	9	5	82	2.6
190:190	Eye	0	10	0	0	0	0	0	0	0	2	1	1	3	4	3	4	4	32	1
191:191	Brain	0	23	10	11	8	6	6	4	4	10	4	16	12	12	8	7	4	145	4.6
192:192	Other nervous system	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	3	0.1
193:193	Thyroid	0	0	0	3	2	3	6	9	4	7	11	6	9	13	2	5	11	91	2.9
194:194	Other endocrine	0	4	0	0	1	0	1	0	0	1	1	0	1	0	0	0	0	9	0.3
195:195	Ill defined sites	0	1	2	0	1	0	2	1	1	0	0	2	2	2	0	1	4	19	0.6
196:196	Lymph nodes	0	12	27	16	18	18	23	10	14	14	17	24	18	29	13	20	28	301	9.6
199:199	Unknown primary site	0	4	2	0	2	3	6	5	6	11	7	8	21	17	12	14	23	141	4.5

Table 3.3 Age distribution of cancer for Saudi females, 1994

ICDO (I)	Unk	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75+	Tot	%
ALL SITES	0	117	77	61	82	78	135	144	168	170	208	257	214	293	174	181	193	2552	100
140:140 Lip	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	3	0.1
141:141 Tongue	0	0	0	0	0	1	0	0	0	3	3	2	0	5	3	5	3	25	1
142:142 Salivary gland	0	0	0	0	1	0	1	2	1	1	0	0	0	1	0	0	1	8	0.3
143:143 Gum	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	1	1	6	0.2
144:144 Floor of mouth	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0.1
145:145 Other mouth	0	0	1	0	0	1	0	0	1	0	5	1	1	2	0	1	3	16	0.6
146:146 Oropharynx	0	0	0	0	0	0	1	0	0	0	2	2	0	0	0	0	1	6	0.2
147:147 Nasopharynx	0	0	2	2	5	3	4	4	3	3	6	6	1	3	1	2	1	46	1.8
148:148 Hypopharynx	0	0	0	0	0	2	0	0	3	0	3	0	0	3	1	3	4	19	0.7
149:149 Pharynx, NOS	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	3	0.1
150:150 Oesophagus	0	0	0	0	0	0	0	3	3	1	5	9	12	8	10	18	12	81	3.2
151:151 Stomach	0	0	1	0	0	0	0	3	4	2	4	7	9	10	12	12	8	9	3.2
152:152 Small intestine	0	0	0	0	1	0	1	0	0	0	0	0	0	3	2	2	3	12	0.5
153:153 Colon	0	0	0	0	0	0	3	3	8	5	3	10	6	15	8	1	7	69	2.7
154:154 Rectum	0	0	0	0	0	0	0	1	2	4	3	7	7	11	2	8	6	51	2
155:155 Liver	0	0	0	0	2	1	1	0	6	6	8	23	15	18	15	8	17	120	4.7
156:156 Gallbladder etc.	0	0	0	0	0	0	1	2	1	2	9	8	6	8	4	7	7	55	2.2
157:157 Pancreas	0	0	0	0	0	1	2	1	0	0	2	4	6	4	6	0	4	30	1.2
158:158 Peritoneum etc.	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	4	0.2
159:159 Digestive organs, NOS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
160:160 Nose, sinuses etc.	0	1	0	1	0	0	1	0	0	0	0	0	1	0	0	1	3	8	0.3
161:161 Larynx	0	0	0	0	0	1	1	1	0	0	1	0	2	1	1	0	3	11	0.4
162:162 Bronchus, lung	0	1	0	0	0	0	1	1	4	4	5	5	4	6	12	3	8	54	2.1
163:163 Pleura	0	0	0	0	0	1	0	0	0	0	0	1	0	2	0	1	0	5	0.2
164:164 Other thoracic organs	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	3	0.1
169:169 Haemato.& retic.sys	0	41	26	20	11	10	9	8	11	7	6	5	11	7	10	4	5	191	7.5
170:170 Bone	0	0	3	10	11	3	1	0	1	0	1	0	3	1	0	1	0	35	1.4
171:171 Connective tissue	0	11	4	2	2	2	4	2	1	2	3	0	2	1	3	1	1	41	1.6
173:173 Skin	0	1	1	1	0	2	5	1	5	2	9	17	8	11	12	8	16	99	3.9
174:174 Female breast	0	0	0	0	0	3	25	53	53	65	53	60	43	47	22	25	20	469	18.4
179:179 Uterus	0	0	0	0	0	0	0	0	1	0	0	3	0	0	0	0	1	5	0.2
180:180 Cervix uteri	0	0	0	0	1	2	3	11	15	16	11	10	8	11	2	4	7	101	4
181:181 Placenta	0	0	0	0	2	1	3	2	0	1	3	2	0	0	0	0	0	14	0.5
182:182 Corpus uteri	0	0	0	0	0	2	0	1	3	1	9	10	4	14	7	8	7	66	2.6
183:183 Ovary etc.	0	0	1	4	5	4	7	7	3	6	12	12	13	15	1	9	5	104	4.1
184:184 Other female genital	0	0	0	0	0	0	1	0	1	0	5	5	0	1	2	2	1	18	0.7
188:188 Bladder	0	1	0	0	0	2	2	0	0	1	2	4	2	6	1	6	4	31	1.2
189:189 Kidney	0	22	3	0	0	0	3	4	1	2	3	4	5	8	2	1	2	60	2.4
190:190 Eye	0	7	1	0	0	0	0	2	0	0	0	0	0	0	0	2	2	18	0.7
191:191 Brain	0	13	14	7	6	6	7	2	4	1	0	5	4	5	0	2	0	76	3
192:192 Other nervous system	0	2	1	2	2	0	0	0	0	1	0	0	1	1	0	0	1	11	0.4
193:193 Thyroid	0	0	1	4	12	23	31	19	26	17	15	14	14	20	8	13	7	224	8.8
194:194 Other endocrine	0	2	2	1	0	0	0	0	1	1	1	0	2	0	0	0	0	10	0.4
195:195 Ill defined sites	0	0	0	0	0	0	0	2	0	2	0	0	0	0	1	1	3	9	0.4
196:196 Lymph nodes	0	9	14	6	17	3	10	4	3	8	7	6	9	18	10	11	7	142	5.6
199:199 Unknown primary site	0	4	1	1	4	3	4	3	5	3	6	11	12	18	12	12	10	109	4.3

Table 4.1 Incidence rates for cancer cases among Saudi by age group (/100,000 population), 1994

ICD-O (1)	Tot	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75+	CIR	ASR	S.E.
ALL SITES	5703	12.8	7.5	7	11.9	13.3	23.9	34.9	46	80.1	104.7	157	232	292.8	339.1	417.3	392.7	43.1	78.1	1.1
140:140 Lip	13	0	0	0	0	0	0	0	0	0.2	0.5	0.3	0.3	0.4	0.8	0.8	1.7	0.1	0.2	0.06
141:141 Tongue	58	0	0	0	0	0.2	0.1	0	0.2	1	0.9	2.2	2.2	2.5	4.7	10.3	5.7	0.4	0.9	0.12
142:142 Salivary gland	14	0	0	0	0.1	0	0.1	0.3	0.2	0.3	0	0	0	1.3	1.3	0	0.8	0.6	0.1	0.2
143:143 Gum	14	0	0	0	0	0	0	0	0	0	0	0.3	0.9	1.3	2.3	2.4	0.6	0.1	0.2	0.07
144:144 Floor of mouth	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0.8	1.1	0	0.1
145:145 Other mouth	34	0	0	0	0	0.1	0.1	0.1	0.2	0	2.1	0.6	1.3	2.1	3.9	1.6	2.8	0.3	0.5	0.1
146:146 Oropharynx	27	0	0	0	0	0	0.1	0.1	0	0	1.5	0.6	1.3	0.4	4.7	1.6	3.4	0.2	0.4	0.09
147:147 Nasopharynx	132	0	0.1	0.3	0.5	0.5	1	1.6	1.4	2	4.7	4.5	5.8	3.8	6.2	5.5	3.4	1	1.8	0.16
148:148 Hypopharynx	30	0	0	0	0	0.2	0.1	0.1	0.5	0.3	0.9	0	0	2.1	2.3	2.4	4.5	0.2	0.4	0.08
149:149 Pharynx, NOS	5	0	0	0	0	0	0	0.1	0	0	0	0	0.9	0	0.8	0	0.6	0	0.1	0.04
150:150 Oesophagus	162	0	0	0	0	0	0	0.4	1.2	0.8	2.7	3.8	8	9.3	15.5	29.2	17.5	1.2	2.6	0.21
151:151 Stomach	240	0	0	0	0	0	0.6	0.9	1	1.8	3.2	6.7	12	16	22.5	30.8	27.7	1.8	3.8	0.25
152:152 Small intestine	27	0	0	0	0.1	0.1	0.3	0	0	0	0	0	0	0.4	3	2.3	4.7	2.8	0.2	0.08
153:153 Colon	134	0	0	0	0	0.4	0.3	0.6	2	1.8	1.2	7.3	4.9	11.8	11.6	7.1	7.4	1	2.1	0.18
154:154 Rectum	152	0	0	0	0	0.2	0.1	0.7	1	3.3	1.8	5.7	7.1	13.1	10.9	12.6	13.6	1.1	2.4	0.2
155:155 Liver	435	0	0	0.1	0.1	0.3	0.6	0.4	2	4.6	6.2	18.2	25.7	34.6	34.9	41.1	41.3	3.3	6.9	0.34
156:156 Gallbladder etc.	80	0	0	0	0	0	0.1	0.3	0.2	1.3	3	2.9	4.9	5.5	4.7	7.9	6.8	0.6	1.3	0.15
157:157 Pancreas	79	0	0	0	0	0.1	0.2	0.1	0	0.3	1.5	2.5	4.9	5.1	8.5	5.5	11.3	0.6	1.3	0.15
158:158 Peritoneum etc.	9	0.1	0	0.1	0	0.1	0.1	0	0	0.3	0	0	0	0	0	0.8	0	0.1	0.1	0.03
159:159 Digestive organs, NOS	7	0	0	0	0	0	0	0	0	0	0	0	0.9	0	0.8	1.6	1.1	0.1	0.1	0.04
160:160 Nose, sinuses etc.	19	0	0	0.1	0	0	0.1	0.1	0.1	0.2	0	0.3	0.6	0.4	1.3	0	1.6	2.3	0.1	0.2
161:161 Larynx	69	0	0	0.1	0	0.1	0.1	0.1	0.1	0.3	0.5	1.8	2.5	6.2	4.6	4.7	4.7	5.1	0.5	0.14
162:162 Bronchus, lung	262	0	0	0	0	0.1	0.2	0.3	1.7	3	5.3	8	14.6	17.7	28.7	25.3	26.6	2	4.2	0.27
163:163 Pleura	15	0	0	0	0	0.1	0.1	0	0.2	0.5	0	0.3	0.9	0.8	1.6	1.6	0.6	0.1	0.2	0.06
164:164 Other thoracic organs	6	0.1	0	0	0	0	0	0.1	0	0	0	0.3	0.4	0	0	0	0	0	0.1	0.03
169:169 Haemato & retic.sys	535	4.8	3	2.1	2.4	1.7	1.7	4	3.6	3.8	5.3	7	10.6	11	20.9	24.5	19.2	4	5.3	0.26
170:170 Bone	90	0	0.2	1	2.1	1	0.2	0.4	0.3	1.3	0.6	0.6	1.8	0.4	0	2.4	0	0.7	0.7	0.09
171:171 Connective tissue	135	1.4	0.4	0.2	0.6	0.4	0.6	1.3	0.8	2.5	2.4	1.3	3.5	3	5.4	2.4	5.7	1	1.4	0.14
173:173 Skin	244	0.1	0.1	0.2	0.2	0.4	1.3	0.9	1.9	2.3	4.7	8	10.2	12.7	21.7	16.6	27.2	1.8	3.6	0.24
174:174 Female breast	469	0	0	0	0	0.3	2.7	7.6	9	16.5	15.6	19.1	19	19.8	17.1	19.8	11.3	3.5	6.8	0.33
175:175 Male breast	11	0	0	0	0	0	0	0.1	0	0.5	0	0	0.4	0.8	1.6	0.8	1.1	0.1	0.2	0.05
179:179 Uterus	5	0	0	0	0	0	0	0	0.2	0	0	1	0	0	0	0	0.6	0	0.1	0.03
180:180 Cervix uteri	101	0	0	0	0.1	0.2	0.3	1.6	2.5	4.1	3.2	3.2	3.5	4.6	1.6	3.2	4	0.8	1.4	0.15
181:181 Placenta	14	0	0	0	0.1	0.1	0.3	0.3	0	0.3	0.9	0.6	0	0	0	0	0	0.1	0.2	0.05
182:182 Corpus uteri	66	0	0	0	0	0.2	0	0.1	0.5	0.3	2.7	3.2	1.8	5.9	5.4	6.3	4	0.5	1.1	0.13
183:183 Ovary etc.	104	0	0	0.2	0.3	0.4	0.7	1	0.5	1.5	3.5	3.8	5.8	6.3	0.8	7.1	2.8	0.8	1.4	0.15
184:184 Other female genital	18	0	0	0	0	0	0.1	0	0.2	0	1.5	1.6	0	0.4	1.6	1.6	0.6	0.1	0.3	0.07
185:185 Prostate	154	0	0	0	0	0	0	0	0	0.8	0	1.9	3.5	7.2	16.3	26.9	36.8	1.2	2.3	0.19
186:186 Testis	35	0	0	0.1	0.3	0.4	0.4	0.6	0.3	1.5	0.3	0	2.2	0.4	0	0.8	0.6	0.3	0.4	0.07
187:187 Other male genital	4	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0.6	0	0.1	0.03
188:188 Bladder	209	0.1	0	0	0	0.3	0.4	0.7	1.5	1.8	3.8	5.1	8.4	13.5	15.5	23.7	27.2	1.6	3.2	0.23
189:189 Kidney	142	1.8	0.1	0	0	0	0.3	0.7	0.7	1.3	2.4	3.5	8	8	5.4	7.9	4	1.1	1.8	0.16
190:190 Eye	50	0.7	0	0	0	0	0	0.3	0	0.5	0.3	0.3	1.3	3.4	2.3	4.7	3.4	0.4	0.6	0.09
191:191 Brain	221	1.6	1.1	0.9	1	1.1	1.4	0.9	1.4	2.8	1.2	6.7	7.1	7.2	6.2	7.1	2.3	1.7	2.3	0.18
192:192 Other nervous system	14	0.1	0	0.2	0.1	0	0	0.1	0	0.3	0	0	0.4	0.4	0	0	0.6	0.1	0.1	0.04
193:193 Thyroid	315	0	0	0.4	1	2.3	4	4	5.1	6.1	7.7	6.4	10.2	13.9	7.8	14.2	10.2	2.4	4	0.24
194:194 Other endocrine	19	0.3	0.1	0.1	0.1	0	0.1	0	0.2	0.5	0.6	0	1.3	0	0	0	0	0.1	0.2	0.05
195:195 Ill defined sites	28	0	0.1	0	0.1	0	0.2	0.4	0.2	0.5	0	0.6	0.9	0.8	0.8	1.6	4	0.2	0.3	0.07
196:196 Lymph nodes	443	0.9	1.8	1.1	2.4	1.9	3.5	2	2.9	5.6	7.1	9.6	12	19.8	17.8	24.5	19.8	3.3	5.3	0.28
199:199 Unknown primary site	250	0.3	0.1	0.1	0.4	0.5	1.1	1.1	1.9	3.5	3.8	6.1	14.6	14.8	18.6	20.5	18.7	1.9	3.7	0.24

Table 4.1 Incidence rates for cancer cases among Saudi by age group (/100,000 population), 1994

ICDO(I)	ALL SITES	5703	12.8	7.5	7	11.9	13.3	23.9	34.9	46	80.1	104.7	157	232	292.8	339.1	417.3	392.7	43.1	78.1	1.1
140:140 Lip	Lip	13	0	0	0	0	0	0	0	0.2	0.5	0.3	0.3	0.4	0.8	0.8	0.8	1.7	0.1	0.2	0.06
141:141 Tongue	Tongue	58	0	0	0	0	0.2	0.1	0	0.2	1	0.9	2.2	2.2	2.5	4.7	10.3	5.7	0.4	0.9	0.12
142:142 Salivary gland	Salivary gland	14	0	0	0	0.1	0	0.1	0.3	0.2	0.3	0	0	1.3	1.3	0	0.8	0.6	0.1	0.2	0.05
143:143 Gum	Gum	14	0	0	0	0	0	0	0	0	0	0	0.3	0.9	1.3	2.3	2.4	0.6	0.1	0.2	0.07
144:144 Floor of mouth	Floor of mouth	4	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0.8	1.1	0	0.1	0.03
145:145 Other mouth	Other mouth	34	0	0	0	0	0.1	0.1	0.1	0.2	0	2.1	0.6	1.3	2.1	3.9	1.6	2.8	0.3	0.5	0.1
146:146 Oropharynx	Oropharynx	27	0	0	0	0	0	0.1	0.1	0	0	1.5	0.6	1.3	0.4	4.7	1.6	3.4	0.2	0.4	0.09
147:147 Nasopharynx	Nasopharynx	132	0	0.1	0.3	0.5	0.5	1	1.6	1.4	2	4.7	4.5	5.8	3.8	6.2	5.5	3.4	1	1.8	0.16
148:148 Hypopharynx	Hypopharynx	30	0	0	0	0	0.2	0.1	0.1	0.5	0.3	0.9	0	0	2.1	2.3	2.4	4.5	0.2	0.4	0.08
149:149 Pharynx, NOS	Pharynx, NOS	5	0	0	0	0	0	0	0.1	0	0	0	0	0.9	0	0.8	0	0.6	0	0.1	0.04
150:150 Oesophagus	Oesophagus	162	0	0	0	0	0	0	0.4	1.2	0.8	2.7	3.8	8	9.3	15.5	29.2	17.5	1.2	2.6	0.21
151:151 Stomach	Stomach	240	0	0	0	0	0	0.6	0.9	1	1.8	3.2	6.7	12	16	22.5	30.8	27.7	1.8	3.8	0.25
152:152 Small intestine	Small intestine	27	0	0	0	0.1	0.1	0.3	0	0	0	0	0	0.4	3	2.3	4.7	2.8	0.2	0.4	0.08
153:153 Colon	Colon	134	0	0	0	0	0.4	0.3	0.6	2	1.8	1.2	7.3	4.9	11.8	11.6	7.1	7.4	1	2.1	0.18
154:154 Rectum	Rectum	152	0	0	0	0	0.2	0.1	0.7	1	3.3	1.8	5.7	7.1	13.1	10.9	12.6	13.6	1.1	2.4	0.2
155:155 Liver	Liver	435	0	0	0.1	0.1	0.3	0.6	0.4	2	4.6	6.2	18.2	25.7	34.6	34.9	41.1	41.3	3.3	6.9	0.34
156:156 Gallbladder etc.	Gallbladder etc.	80	0	0	0	0	0	0.1	0.3	0.2	1.3	3	2.9	4.9	5.5	4.7	7.9	6.8	0.6	1.3	0.15
157:157 Pancreas	Pancreas	79	0	0	0	0	0.1	0.2	0.1	0	0.3	1.5	2.5	4.9	5.1	8.5	5.5	11.3	0.6	1.3	0.15
158:158 Peritoneum etc.	Peritoneum etc.	9	0.1	0	0.1	0	0.1	0.1	0	0	0.3	0	0	0	0	0	0.8	0	0.1	0.1	0.03
159:159 Digestive organs, NOS	Digestive organs, NOS	7	0	0	0	0	0	0	0	0	0	0	0	0.9	0	0.8	1.6	1.1	0.1	0.1	0.04
160:160 Nose, sinuses etc.	Nose, sinuses etc.	19	0	0	0.1	0	0	0.1	0.1	0.2	0	0.3	0.6	0.4	1.3	0	1.6	2.3	0.1	0.2	0.06
161:161 Larynx	Larynx	69	0	0	0.1	0	0.1	0.1	0.1	0.3	0.5	1.8	2.5	6.2	4.6	4.7	4.7	5.1	0.5	1.1	0.14
162:162 Bronchus, lung	Bronchus, lung	262	0	0	0	0	0.1	0.2	0.3	1.7	3	5.3	8	14.6	17.7	28.7	25.3	26.6	2	4.2	0.27
163:163 Pleura	Pleura	15	0	0	0	0	0.1	0.1	0	0.2	0.5	0	0.3	0.9	0.8	1.6	1.6	0.6	0.1	0.2	0.06
164:164 Other thoracic organs	Other thoracic organs	6	0.1	0	0	0	0	0	0.1	0	0	0	0.3	0.4	0	0	0	0	0	0.1	0.03
169:169 Haemato.& retic.sys	Haemato.& retic.sys	535	4.8	3	2.1	2.4	1.7	1.7	4	3.6	3.8	5.3	7	10.6	11	20.9	24.5	19.2	4	5.3	0.26
170:170 Bone	Bone	90	0	0.2	1	2.1	1	0.2	0.4	0.3	1.3	0.6	0.6	1.8	0.4	0	2.4	0	0.7	0.7	0.09
171:171 Connective tissue	Connective tissue	135	1.4	0.4	0.2	0.6	0.4	0.6	1.3	0.8	2.5	2.4	1.3	3.5	3	5.4	2.4	5.7	1	1.4	0.14
173:173 Skin	Skin	244	0.1	0.1	0.2	0.2	0.4	1.3	0.9	1.9	2.3	4.7	8	10.2	12.7	21.7	16.6	27.2	1.8	3.6	0.24
174:174 Female breast	Female breast	469	0	0	0	0	0.3	2.7	7.6	9	16.5	15.6	19.1	19	19.8	17.1	19.8	11.3	3.5	6.8	0.33
175:175 Male breast	Male breast	11	0	0	0	0	0	0	0.1	0	0.5	0	0	0.4	0.8	1.6	0.8	1.1	0.1	0.2	0.05
179:179 Uterus	Uterus	5	0	0	0	0	0	0	0	0.2	0	0	1	0	0	0	0	0.6	0	0.1	0.03
180:180 Cervix uteri	Cervix uteri	101	0	0	0	0.1	0.2	0.3	1.6	2.5	4.1	3.2	3.2	3.5	4.6	1.6	3.2	4	0.8	1.4	0.15
181:181 Placenta	Placenta	14	0	0	0	0.1	0.1	0.3	0.3	0	0.3	0.9	0.6	0	0	0	0	0	0.1	0.2	0.05
182:182 Corpus uteri	Corpus uteri	66	0	0	0	0	0.2	0	0.1	0.5	0.3	2.7	3.2	1.8	5.9	5.4	6.3	4	0.5	1.1	0.13
183:183 Ovary etc.	Ovary etc.	104	0	0	0.2	0.3	0.4	0.7	1	0.5	1.5	3.5	3.8	5.8	6.3	0.8	7.1	2.8	0.8	1.4	0.15
184:184 Other female genital	Other female genital	18	0	0	0	0	0	0	0	0.2	0	1.5	1.6	0	0.4	1.6	1.6	0.6	0.1	0.3	0.07
185:185 Prostate	Prostate	154	0	0	0	0	0	0	0	0	0.8	0	1.9	3.5	7.2	16.3	26.9	36.8	1.2	2.3	0.19
186:186 Testis	Testis	35	0	0	0.1	0.3	0.4	0.4	0.6	0.3	1.5	0.3	0	2.2	0.4	0	0.8	0.6	0.3	0.4	0.07
187:187 Other male genital	Other male genital	4	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0.6	0	0.1	0.03
188:188 Bladder	Bladder	209	0.1	0	0	0	0.3	0.4	0.7	1.5	1.8	3.8	5.1	8.4	13.5	15.5	23.7	27.2	1.6	3.2	0.23
189:189 Kidney	Kidney	142	1.8	0.1	0	0	0	0.3	0.7	0.7	1.3	2.4	3.5	8	8	5.4	7.9	4	1.1	1.8	0.16
190:190 Eye	Eye	50	0.7	0	0	0	0	0	0.3	0	0.5	0.3	0.3	1.3	3.4	2.3	4.7	3.4	0.4	0.6	0.09
191:191 Brain	Brain	221	1.6	1.1	0.9	1	1.1	1.4	0.9	1.4	2.8	1.2	6.7	7.1	7.2	6.2	7.1	2.3	1.7	2.3	0.18
192:192 Other nervous system	Other nervous system	14	0.1	0	0.2	0.1	0	0	0.1	0	0.3	0	0	0.4	0.4	0	0	0.6	0.1	0.1	0.04
193:193 Thyroid	Thyroid	315	0	0	0.4	1	2.3	4	4	5.1	6.1	7.7	6.4	10.2	13.9	7.8	14.2	10.2	2.4	4	0.24
194:194 Other endocrine	Other endocrine	19	0.3	0.1	0.1	0.1	0	0.1	0	0.2	0.5	0.6	0	1.3	0	0	0	0	0.1	0.2	0.05
195:195 Ill defined sites	Ill defined sites	28	0	0.1	0	0.1	0	0.2	0.4	0.2	0.5	0	0.6	0.9	0.8	0.8	1.6	4	0.2	0.3	0.07
196:196 Lymph nodes	Lymph nodes	443	0.9	1.8	1.1	2.4	1.9	3.5	2	2.9	5.6	7.1	9.6	12	19.8	17.8	24.5	19.8	3.3	5.3	0.28
199:199 Unknown primary site	Unknown primary site	250	0.3	0.1	0.1	0.4	0.5	1.1	1.1	1.9	3.5	3.8	6.1	14.6	14.8	18.6	20.5	18.7	1.9	3.7	0.24

Table 4.2 Incidence rates for cancer cases among Saudi males by age group (/100,000 population), 1994

ICD-O (I)	Tot.	0-	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75+	CIR	ASR	S.E.
ALL SITES	3151	15.3	8.2	7.6	12.5	12.6	19.9	28.2	36.2	75.3	88.8	152.5	245.6	292.3	344.2	495.7	507.4	47.1	80.3	1.51
140:140 Lip	10	0	0	0	0	0	0	0	0.4	1	0.6	0	0	1.5	0	1.4	3	0.1	0.3	0.09
141:141 Tongue	33	0	0	0	0	0.2	0.2	0	0.4	0.5	0	3.2	4	0.7	3.9	11.4	7.1	0.5	0.9	0.16
142:142 Salivary gland	6	0	0	0	0	0	0	0	0	0	0	0	2.4	1.5	0	1.4	0	0.1	0.2	0.07
143:143 Gum	8	0	0.1	0	0	0	0	0	0	0	0	0	1.6	0.7	2.6	2.9	0	0.1	0.2	0.09
144:144 Floor of mouth	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0.03
145:145 Other mouth	18	0	0	0	0	0	0.2	0.3	0	0	1.2	0.6	1.6	2.2	6.5	1.4	2	0.3	0.6	0.13
146:146 Oropharynx	21	0	0	0	0	0	0	0.3	0	0	1.8	0	2.4	0.7	7.9	2.9	5.1	0.3	0.6	0.14
147:147 Nasopharynx	86	0.1	0.1	0.4	0.3	0.5	1.1	2	1.8	2.6	6	5.2	9.5	4.4	9.2	7.1	5.1	1.3	2.3	0.26
148:148 Hypopharynx	11	0	0	0	0	0	0.2	0.3	0	0.5	0	0	0	1.5	2.6	0	4.1	0.2	0.3	0.09
149:149 Pharynx, NOS	2	0	0	0	0	0	0	0	0	0	0	0	1.6	0	0	0	0	0	0.1	0.04
150:150 Oesophagus	81	0	0	0	0	0	0	0	1.4	1	2.4	1.9	4.8	10.2	13.1	27.1	19.2	1.2	2.3	0.26
151:151 Stomach	159	0	0	0	0	0	0.7	0.6	1.4	1.5	2.4	7.8	13.5	19	22.2	44.3	40.5	2.4	4.5	0.36
152:152 Small intestine	15	0	0	0	0	0.2	0.4	0	0	0	0	0	0.8	2.9	1.3	5.7	2	0.2	0.4	0.1
153:153 Colon	65	0	0.1	0	0	0.7	0	0.3	1.4	1	0.6	8.4	4	9.5	9.2	11.4	6.1	1	1.8	0.24
154:154 Rectum	101	0	0	0	0	0.4	0.2	1.1	1.4	4.6	1.8	7.1	7.1	14.6	15.7	11.4	18.2	1.5	2.9	0.29
155:155 Liver	315	0.1	0	0.2	0	0.4	1.1	0.9	2.1	6.2	7.9	22	34.1	46.6	39.3	62.9	56.7	4.7	9.1	0.52
156:156 Gallbladder etc.	25	0	0	0	0	0	0	0	0	1.5	0.6	0.6	4	3.6	2.6	4.3	5.1	0.4	0.7	0.15
157:157 Pancreas	49	0	0	0	0	0	0	0	0	0.5	1.8	2.6	4	5.8	6.5	10	16.2	0.7	1.4	0.2
158:158 Peritoneum etc.	5	0.2	0	0.1	0	0	0.2	0	0	0.5	0	0	0	0	0	0	0	0.1	0.1	0.04
159:159 Digestive organs, NOS	6	0	0	0	0	0	0	0	0	0	0	0	1.6	0	0	0	2.9	0	0.2	0.07
160:160 Nose, sinuses etc.	11	0	0.1	0	0	0	0	0.3	0.4	0	0.6	1.3	0	2.2	0	1.4	1	0.2	0.3	0.09
161:161 Larynx	58	0	0	0.2	0	0	0	0.3	0.7	0.5	3	5.2	9.5	7.3	6.5	8.6	6.1	0.9	1.7	0.23
162:162 Bronchus, lung	208	0	0	0	0	0.2	0.2	0.3	2.1	4.1	7.9	12.9	23	26.2	32.7	41.4	39.5	3.1	6.1	0.43
163:163 Pleura	10	0	0	0	0	0	0.2	0	0.4	1	0	0	1.6	0	2.6	1.4	1	0.1	0.3	0.09
164:164 Other thoracic organs	3	0.2	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0.1	0.04
169:169 Haemato & retic.sys	344	6	3.6	2.1	3.2	1.6	1.6	5.7	3.5	4.1	7.2	11	10.3	13.8	22.2	38.6	29.4	5.1	6.6	0.4
170:170 Bone	55	0.1	0.1	1	2.7	1.4	0.2	0.9	0.4	2.6	0.6	1.3	0.8	0	0	2.9	0	0.8	0.9	0.13
171:171 Connective tissue	94	1.8	0.5	0.1	0.8	0.5	0.4	2	1.4	4.1	3	2.6	4.8	4.4	5.2	2.9	9.1	1.4	2	0.22
173:173 Skin	145	0.2	0.1	0.2	0.4	0.4	1.6	1.4	2.1	3.6	4.2	5.2	11.9	13.8	20.9	18.6	32.4	2.2	3.9	0.33
175:175 Male breast	11	0	0	0	0	0	0	0.3	0	1	0	0	0.8	1.5	2.6	1.4	2	0.2	0.3	0.1
185:185 Prostate	154	0	0	0	0	0	0	0	0	1.5	0	3.9	6.3	12.4	27.5	48.6	65.8	2.3	4.1	0.34
186:186 Testis	35	0.1	0	0.1	0.6	0.7	0.9	1.1	0.7	3.1	0.6	0	4	0.7	0	1.4	1	0.5	0.8	0.14
187:187 Other male genital	4	0.1	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	1	0.1	0.1	0.05
188:188 Bladder	178	0.2	0	0	0	0.2	0.4	1.4	3.2	3.1	6.6	7.8	13.5	19	24.9	34.3	44.6	2.7	4.9	0.38
189:189 Kidney	82	1.7	0	0	0	0	0	0.3	1.1	1.5	3	4.5	10.3	8	6.5	12.9	5.1	1.2	2.1	0.24
190:190 Eye	32	0.8	0	0	0	0	0	0	0	0	0.6	0.6	2.4	2.9	3.9	5.7	4.1	0.5	0.8	0.15
191:191 Brain	145	2	0.9	1.1	1.1	1.1	1.3	1.1	1.4	5.2	2.4	10.3	9.5	8.7	10.5	10	4.1	2.2	3.2	0.29
192:192 Other nervous system	3	0.1	0	0.1	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0.02
193:193 Thyroid	91	0	0	0.3	0.3	0.5	1.3	2.6	1.4	3.6	6.6	3.9	7.1	9.5	2.6	7.1	11.1	1.4	2.4	0.26
194:194 Other endocrine	9	0.3	0	0	0.1	0	0.2	0	0	0.5	0.6	0	0.8	0	0	0	0	0.1	0.2	0.06
195:195 Ill defined sites	19	0.1	0.2	0	0.1	0	0.4	0.3	0.4	0	0	1.3	1.6	1.5	0	1.4	4.1	0.3	0.4	0.1
196:196 Lymph nodes	301	1	2.4	1.6	2.5	3.2	5.1	2.8	4.9	7.2	10.3	15.5	14.3	21.1	17	28.6	28.4	4.5	6.8	0.42
199:199 Unknown primary site	141	0.3	0.2	0	0.3	0.5	1.3	1.4	2.1	5.7	4.2	5.2	16.6	12.4	15.7	20	23.3	2.1	3.8	0.33

Table 4.3 Incidence rates for cancer cases among Saudi females by age group (100,000 population), 1994

ICD-O (1)	Tot	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	CIR	ASR	S.E.
ALL SITES	2552	10.3	6.8	6.4	11.3	14	27.6	41.8	55.1	84.7	120	161.5	214.7	293.5	331.6	320.1	247.5	38.9	74.6	1.61
140:140 Lip	3	0	0	0	0	0	0	0	0	0	0	0.6	1	0	1.9	0	0	0	0.1	0.08
141:141 Tongue	25	0	0	0	0	0.2	0	0	0	1.5	1.7	1.3	0	5	5.7	8.8	3.8	0.4	0.9	0.19
142:142 Salivary gland	8	0	0	0	0.1	0	0.2	0.6	0.3	0.5	0	0	0	1	0	0	1.3	0.1	0.2	0.07
143:143 Gum	6	0	0	0	0	0	0	0	0	0	0	0.6	0	2	1.9	1.8	1.3	0.1	0.2	0.1
144:144 Floor of mouth	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1.8	0	0	0.1	0.05
145:145 Other mouth	16	0	0.1	0	0	0.2	0	0	0.3	0	2.9	0.6	1	2	0	1.8	3.8	0.2	0.5	0.13
146:146 Oropharynx	6	0	0	0	0	0	0.2	0	0	0	1.2	1.3	0	0	0	0	1.3	0.1	0.2	0.07
147:147 Nasopharynx	46	0	0.2	0.2	0.7	0.5	0.8	1.2	1	1.5	3.5	3.8	1	3	1.9	3.5	1.3	0.7	1.1	0.18
148:148 Hypopharynx	19	0	0	0	0	0.4	0	0	1	0	1.7	0	0	3	1.9	5.3	5.1	0.3	0.6	0.14
149:149 Pharynx, NOS	3	0	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	1.3	0	0.1	0.07
150:150 Oesophagus	81	0	0	0	0	0	0	0.9	1	0.5	2.9	5.7	12	8	19.1	31.8	15.4	1.2	2.9	0.34
151:151 Stomach	81	0	0.1	0	0	0	0.6	1.2	0.7	2	4	5.7	10	12	22.9	14.1	11.5	1.2	2.9	0.34
152:152 Small intestine	12	0	0	0	0.1	0	0.2	0	0	0	0	0	0	3	3.8	3.5	3.8	0.2	0.4	0.13
153:153 Colon	69	0	0	0	0	0	0.6	0.9	2.6	2.5	1.7	6.3	6	15	15.2	1.8	9	1.1	2.3	0.3
154:154 Rectum	51	0	0	0	0	0	0	0.3	0.7	2	1.7	4.4	7	11	3.8	14.1	7.7	0.8	1.8	0.25
155:155 Liver	120	0	0	0	0.3	0.2	0.2	0	2	3	4.6	14.5	15.1	18	28.6	14.1	21.8	1.8	4.3	0.41
156:156 Gallbladder etc.	55	0	0	0	0	0	0.2	0.6	0.3	1	5.2	5	6	8	7.6	12.4	9	0.8	1.9	0.27
157:157 Pancreas	30	0	0	0	0	0.2	0.4	0.3	0	0	1.2	2.5	6	4	11.4	0	5.1	0.5	1.1	0.21
158:158 Peritoneum etc.	4	0.1	0.1	0	0	0.2	0	0	0	0	0	0	0	0	0	1.8	0	0.1	0.1	0.04
159:159 Digestive organs, NOS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1.9	0	0	0	0.1	0.06
160:160 Nose, sinuses etc.	8	0.1	0	0.1	0	0	0.2	0	0	0	0	0	1	0	0	1.8	3.8	0.1	0.2	0.07
161:161 Larynx	11	0	0	0	0	0.2	0.2	0	0	0.5	0.6	0	2	1	1.9	0	3.8	0.2	0.3	0.11
162:162 Bronchus, lung	54	0.1	0	0	0	0	0.2	0.3	1.3	2	2.9	3.1	4	6	22.9	5.3	10.3	0.8	2	0.28
163:163 Pleura	5	0	0	0	0	0.2	0	0	0	0	0	0.6	0	2	0	1.8	0	0.1	0.2	0.08
164:164 Other thoracic organs	3	0.1	0	0	0	0	0	0.3	0	0	0	0	1	0	0	0	0	0	0.1	0.05
169:169 Haemato & retic.sys	191	3.6	2.3	2.1	1.5	1.8	1.8	2.3	3.6	3.5	3.5	3.1	11	7	19.1	7.1	6.4	2.9	3.8	0.33
170:170 Bone	35	0	0.3	1.1	1.5	0.5	0.2	0	0.3	0	0.6	0	3	1	0	1.8	0	0.5	0.6	0.11
171:171 Connective tissue	41	1	0.4	0.2	0.3	0.4	0.8	0.6	0.3	1	1.7	0	2	1	5.7	1.8	1.3	0.6	0.9	0.16
173:173 Skin	99	0.1	0.1	0.1	0	0.4	1	0.3	1.6	1	5.2	10.7	8	11	22.9	14.1	20.5	1.5	3.3	0.35
174:174 Female breast	469	0	0	0	0	0.5	5.1	15.4	17.4	32.4	30.6	37.7	43.1	47.1	41.9	44.2	25.6	7.2	14.3	0.7
179:179 Uterus	5	0	0	0	0	0	0	0	0.3	0	0	1.9	0	0	0	0	1.3	0.1	0.1	0.06
180:180 Cervix uteri	101	0	0	0	0.1	0.4	0.6	3.2	4.9	8	6.3	6.3	8	11	3.8	7.1	9	1.5	2.9	0.31
181:181 Placenta	14	0	0	0	0.3	0.2	0.6	0.6	0	0.5	1.7	1.3	0	0	0	0	0	0.2	0.3	0.09
182:182 Corpus uteri	66	0	0	0	0	0.4	0	0.3	1	0.5	5.2	6.3	4	14	13.3	14.1	9	1	2.3	0.3
183:183 Ovary etc.	104	0	0.1	0.4	0.7	0.7	1.4	2	1	3	6.9	7.5	13	15	1.9	15.9	6.4	1.6	3.1	0.32
184:184 Other female genital	18	0	0	0	0	0	0.2	0	0.3	0	2.9	3.1	0	1	3.8	3.5	1.3	0.3	0.6	0.15
188:188 Bladder	31	0.1	0	0	0	0.4	0.4	0	0	0.5	1.2	2.5	2	6	1.9	10.6	5.1	0.5	1	0.19
189:189 Kidney	60	1.9	0.3	0	0	0	0.6	1.2	0.3	1	1.7	2.5	5	8	3.8	1.8	2.6	0.9	1.4	0.21
190:190 Eye	18	0.6	0.1	0	0	0	0	0.6	0	0	0	0	0	4	0	3.5	2.6	0.3	0.4	0.11
191:191 Brain	76	1.1	1.2	0.7	0.8	1.1	1.4	0.6	1.3	0.5	0	3.1	4	5	0	3.5	0	1.2	1.3	0.18
192:192 Other nervous system	11	0.2	0.1	0.2	0.3	0	0	0	0	0.5	0	0	1	1	0	0	1.3	0.2	0.2	0.07
193:193 Thyroid	224	0	0.1	0.4	1.7	4.1	6.3	5.5	8.5	8.7	8.8	8.8	14	20	15.2	23	9	3.4	5.8	0.42
194:194 Other endocrine	10	0.2	0.2	0.1	0	0	0	0	0.3	0.5	0.6	0	2	0	0	0	0	0.2	0.2	0.08
195:195 Ill defined sites	9	0	0	0	0	0	0	0.6	0	1	0	0	0	0	1.9	1.8	3.8	0.1	0.3	0.09
196:196 Lymph nodes	142	0.8	1.2	0.6	2.3	0.5	2	1.2	1	4	4	3.8	9	18	19.1	19.5	9	2.2	3.7	0.36
199:199 Unknown primary site	109	0.4	0.1	0.1	0.6	0.5	0.8	0.9	1.6	1.5	3.5	6.9	12	18	22.9	21.2	12.8	1.7	3.6	0.37

Table 5.1 Age distribution of cancer cases for all Saudis, 1995

ICD-O (I)	Unk.	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Tot.	%
ALL SITES	0	239	155	140	159	152	223	265	297	300	356	405	516	587	472	442	744	5452	100
140:140 Lip	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	1	1	6	0.1
141:141 Tongue	0	0	0	0	0	1	1	1	1	5	2	2	8	2	7	6	3	39	0.7
142:142 Salivary gland	0	0	0	0	0	1	3	2	3	1	0	5	1	0	2	1	2	21	0.4
143:143 Gum	0	0	0	0	0	1	1	0	0	1	1	2	1	6	7	5	11	36	0.7
144:144 Floor of mouth	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	3	0.1
145:145 Other mouth	0	0	0	0	1	0	0	0	0	1	1	3	2	7	6	7	9	37	0.7
146:146 Oropharynx	0	0	1	1	0	2	0	0	0	4	3	2	5	8	5	3	8	42	0.8
147:147 Nasopharynx	0	0	1	4	9	4	5	8	8	7	8	6	13	11	8	5	8	105	1.9
148:148 Hypopharynx	0	0	0	0	0	0	0	2	1	4	0	4	1	0	1	2	6	21	0.4
149:149 Pharynx, NOS	0	0	0	0	0	1	0	4	3	8	4	9	19	15	13	20	41	137	2.5
150:150 Oesophagus	0	0	0	0	0	1	0	6	8	5	6	23	29	30	34	33	60	268	4.9
151:151 Stomach	0	0	0	1	0	6	8	5	6	7	26	23	29	30	34	33	60	268	4.9
152:152 Small intestine	0	2	0	0	0	1	0	1	0	2	2	2	7	4	2	5	3	31	0.6
153:153 Colon	0	1	0	3	1	2	4	5	14	8	22	21	27	29	16	19	19	191	3.5
154:154 Rectum	0	0	0	0	1	0	7	4	9	10	24	17	10	12	17	13	20	144	2.6
155:155 Liver	0	1	0	2	3	5	4	3	8	14	22	44	47	76	57	59	64	409	7.5
156:156 Gallbladder etc.	0	0	0	0	0	0	0	0	0	4	4	4	12	18	7	6	17	72	1.3
157:157 Pancreas	0	0	0	0	0	1	0	2	5	3	6	10	10	12	9	10	17	85	1.6
158:158 Peritoneum etc.	0	1	2	0	0	1	0	2	0	0	1	0	1	0	1	0	1	10	0.2
159:159 Digestive organs, NOS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	3	0.1
160:160 Nose, sinuses etc.	0	1	1	0	3	0	0	1	0	1	2	0	2	1	2	1	3	18	0.3
161:161 Larynx	0	0	0	0	0	0	2	0	2	4	1	8	4	7	14	6	9	57	1
162:162 Bronchus, lung	0	0	0	0	2	2	1	4	10	11	17	20	36	45	43	36	43	270	5
163:163 Pleura	0	0	0	0	0	1	1	0	0	1	1	1	0	3	1	1	0	10	0.2
164:164 Other thoracic organs	0	2	0	0	0	2	1	3	0	0	0	0	1	2	1	0	0	12	0.2
169:169 Haemato.& retic.sys	0	86	57	38	28	10	19	28	29	11	12	24	32	28	19	24	30	475	8.7
170:170 Bone	0	2	5	22	12	11	8	3	2	4	1	0	5	3	1	0	2	81	1.5
171:171 Connective tissue	0	21	9	4	11	13	7	8	5	7	16	9	6	10	2	3	5	136	2.5
173:173 Skin	0	1	3	3	4	1	9	6	10	6	9	15	21	26	22	31	59	226	4.1
174:174 Female breast	0	0	0	1	1	5	33	38	65	61	61	43	52	48	26	13	22	469	8.6
175:175 Male breast	0	0	0	0	0	0	0	1	1	2	3	2	3	1	2	0	3	18	0.3
179:179 Uterus	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	2	0
180:180 Cervix uteri	0	0	0	1	0	0	9	11	10	10	9	6	13	9	4	1	6	89	1.6
181:181 Placenta	0	0	0	0	1	0	1	2	3	1	0	1	0	0	0	0	0	9	0.2
182:182 Corpus uteri	0	0	0	0	0	2	0	2	4	4	4	10	12	7	0	1	6	52	1
183:183 Ovary etc.	0	1	0	2	4	6	8	10	1	7	10	9	15	15	7	6	12	113	2.1
184:184 Other female genital	0	1	0	0	0	0	0	0	1	1	3	0	1	1	1	1	4	14	0.3
185:185 Prostate	0	0	0	0	0	0	0	0	0	1	0	5	6	17	27	28	70	154	2.8
186:186 Testis	0	5	2	0	2	1	4	3	1	2	2	0	0	0	0	1	2	25	0.5
187:187 Other male genital	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	1	2	6	0.1
188:188 Bladder	0	1	0	1	0	3	7	2	9	13	13	15	25	28	24	21	48	210	3.9
189:189 Kidney	0	25	8	1	1	2	2	4	5	13	7	16	11	15	13	4	10	137	2.5
190:190 Eye	0	16	2	0	1	0	1	0	0	0	0	1	1	4	1	1	5	33	0.6
191:191 Brain	0	32	21	16	16	6	14	11	11	4	8	12	11	8	10	7	4	191	3.5
192:192 Other nervous system	0	2	1	1	1	1	2	0	0	1	0	0	0	1	1	0	0	11	0.2
193:193 Thyroid	0	0	1	6	16	19	32	42	45	25	21	13	19	23	8	16	23	309	5.7
194:194 Other endocrine	0	13	1	1	0	0	0	1	0	1	0	1	1	0	0	0	0	19	0.3
195:195 Ill defined sites	0	3	1	2	2	0	1	1	1	0	0	1	3	4	0	4	1	24	0.4
196:196 Lymph nodes	0	21	37	30	36	33	22	27	16	16	16	23	22	26	23	24	30	402	7.4
199:199 Unknown primary site	0	1	2	0	3	5	4	17	8	12	13	15	18	23	27	15	51	214	3.9

Table 5.2 Age distribution of cancer cases for Saudi males, 1995

ICD-O (I)	Unk.	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Tot.	%	
ALL SITES	0	141	95	81	81	63	78	91	109	119	143	199	284	322	298	298	505	2907	100	
140:140 Lip	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	3	0.1	
141:141 Tongue	0	0	0	0	0	1	0	1	1	1	0	1	0	7	0	3	2	19	0.7	
142:142 Salivary gland	0	0	0	0	0	1	1	1	3	0	0	2	1	0	1	0	1	11	0.4	
143:143 Gum	0	0	0	0	0	1	0	0	0	0	1	0	1	2	5	2	3	15	0.5	
144:144 Floor of mouth	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	2	0.1	
145:145 Other mouth	0	0	0	0	0	0	0	0	0	0	1	0	0	3	3	5	3	15	0.5	
146:146 Oropharynx	0	0	1	1	0	0	0	0	0	3	0	0	5	4	4	2	8	28	1	
147:147 Nasopharynx	0	0	1	4	3	0	2	4	5	6	6	1	12	8	7	4	6	69	2.4	
148:148 Hypopharynx	0	0	0	0	0	0	0	1	0	0	0	2	1	0	0	0	5	9	0.3	
149:149 Pharynx, NOS	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2	0.1	
150:150 Oesophagus	0	0	0	0	0	1	0	1	0	0	0	4	8	9	7	11	31	79	2.7	
151:151 Stomach	0	0	0	0	0	1	3	4	5	5	19	11	16	20	27	17	39	167	5.7	
152:152 Small intestine	0	2	0	0	0	1	0	1	0	0	1	1	3	1	0	1	3	14	0.5	
153:153 Colon	0	0	0	2	0	0	3	4	8	4	9	12	20	13	8	10	12	105	3.6	
154:154 Rectum	0	0	0	0	1	1	0	5	2	6	4	13	6	2	10	11	12	85	2.9	
155:155 Liver	0	1	0	2	1	1	3	2	4	8	16	32	37	61	44	52	51	315	10.8	
156:156 Gallbladder etc.	0	0	0	0	0	0	0	0	0	2	0	3	7	7	3	2	9	33	1.1	
157:157 Pancreas	0	0	0	0	0	1	0	0	4	2	6	6	5	8	2	5	15	54	1.9	
158:158 Peritoneum etc.	0	1	1	0	0	1	0	1	0	0	1	0	1	0	1	0	1	8	0.3	
159:159 Digestive organs, NOS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	0.2	
160:160 Nose, sinuses etc.	0	0	0	0	0	0	0	1	0	1	1	0	2	0	0	0	1	6	0.2	
161:161 Larynx	0	0	0	0	0	0	2	0	2	4	0	8	4	6	14	6	9	55	1.9	
162:162 Bronchus, lung	0	0	0	0	1	1	1	3	7	9	11	16	27	37	34	31	30	208	7.2	
163:163 Pleura	0	0	0	0	0	1	1	0	0	0	0	1	0	3	1	1	0	8	0.3	
164:164 Other thoracic organs	0	2	0	0	0	1	1	3	0	0	0	0	0	1	0	0	0	8	0.3	
169:169 Haemato.& retic.sys	0	48	32	27	15	4	12	15	14	5	3	10	20	12	10	20	16	263	9	
170:170 Bone	0	0	5	13	10	10	2	3	1	0	0	0	3	1	1	0	1	50	1.7	
171:171 Connective-tissue	0	14	6	1	7	6	3	2	2	2	9	6	3	5	1	2	4	73	2.5	
173:173 Skin	0	1	3	3	2	1	3	4	8	6	6	9	17	17	13	21	42	156	5.4	
175:175 Male breast	0	0	0	0	0	0	0	0	1	1	2	3	2	3	1	2	0	3	18	0.6
185:185 Prostate	0	0	0	0	0	0	0	0	0	1	0	5	6	17	27	28	70	154	5.3	
186:186 Testis	0	5	2	0	2	1	4	3	1	2	2	0	0	0	0	1	2	25	0.9	
187:187 Other male genital	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	1	2	6	0.2
188:188 Bladder	0	0	0	1	0	1	4	1	4	11	9	11	21	26	22	14	42	167	5.7	
189:189 Kidney	0	19	2	0	1	1	2	0	3	8	5	14	8	11	9	3	9	95	3.3	
190:190 Eye	0	5	2	0	0	0	0	1	0	0	0	0	1	0	0	1	4	14	0.5	
191:191 Brain	0	19	9	9	11	4	6	7	6	3	4	3	6	6	5	5	2	105	3.6	
192:192 Other nervous system	0	1	0	0	1	0	1	0	0	0	0	0	0	0	1	1	0	5	0.2	
193:193 Thyroid	0	0	1	0	3	3	2	3	7	6	1	3	7	8	3	7	13	67	2.3	
194:194 Other endocrine	0	8	1	0	0	0	0	1	0	1	0	1	1	0	0	0	0	13	0.4	
195:195 Ill defined sites	0	2	0	2	1	0	0	1	1	0	0	1	1	0	0	3	1	13	0.4	
196:196 Lymph nodes	0	13	28	16	21	15	12	14	11	9	7	14	10	19	17	18	21	245	8.4	
199:199 Unknown primary site	0	0	1	0	1	4	3	6	5	8	7	8	12	12	13	10	29	119	4.1	

Table 5.3 Age distribution of cancer cases for Saudi females, 1995

ICD-O (I)	Unk.	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Tot	%
ALL SITES	0	98	60	59	78	89	145	174	188	181	213	206	232	265	174	144	239	2545	100
140:140 Lip	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	3	0.1
141:141 Tongue	0	0	0	0	0	0	1	0	0	5	1	2	1	2	4	3	1	20	0.8
142:142 Salivary gland	0	0	0	0	0	0	2	1	0	1	0	3	0	0	1	1	1	10	0.4
143:143 Gum	0	0	0	0	0	0	1	0	0	1	0	2	0	4	2	3	8	21	0.8
144:144 Floor of mouth	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
145:145 Other mouth	0	0	0	0	1	0	0	0	0	1	0	3	2	4	3	2	6	22	0.9
146:146 Oropharynx	0	0	0	0	0	2	0	0	0	1	3	2	0	4	1	1	0	14	0.6
147:147 Nasopharynx	0	0	0	0	6	4	3	4	3	1	2	5	1	3	1	1	2	36	1.4
148:148 Hypopharynx	0	0	0	0	0	0	0	1	1	4	0	2	0	0	1	2	1	12	0.5
149:149 Pharynx, NOS	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	4	0.2
150:150 Oesophagus	0	0	0	0	0	0	0	3	3	2	3	5	11	6	6	9	10	58	2.3
151:151 Stomach	0	0	0	1	0	5	5	1	1	2	7	12	13	10	7	16	21	101	4
152:152 Small intestine	0	0	0	0	0	0	0	0	0	2	1	1	4	3	2	4	0	17	0.7
153:153 Colon	0	1	0	1	1	2	1	1	6	4	13	9	7	16	8	9	7	86	3.4
154:154 Rectum	0	0	0	0	0	0	2	2	3	6	11	4	4	10	7	2	8	59	2.3
155:155 Liver	0	0	0	0	2	4	1	1	4	6	6	12	10	15	13	7	13	94	3.7
156:156 Gallbladder etc.	0	0	0	0	0	0	0	0	0	2	4	1	5	11	4	4	8	39	1.5
157:157 Pancreas	0	0	0	0	0	0	0	2	1	1	0	4	5	4	7	5	2	31	1.2
158:158 Peritoneum-etc.	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0.1
159:159 Digestive organs, NOS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	2	0.1
160:160 Nose, sinuses etc.	0	1	1	0	3	0	0	0	0	0	1	0	0	1	2	1	2	12	0.5
161:161 Larynx	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	2	0.1
162:162 Bronchus, lung	0	0	0	0	1	1	0	1	3	2	6	4	9	8	9	5	13	62	2.4
163:163 Pleura	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2	0.1
164:164 Other thoracic organs	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	4	0.2
169:169 Haemato & retic. sys	0	38	25	11	13	6	7	13	15	6	9	14	12	16	9	4	14	212	8.3
170:170 Bone	0	2	0	9	2	1	6	0	1	4	1	0	2	2	0	0	1	31	1.2
171:171 Connective tissue	0	7	3	3	4	7	4	6	3	5	7	3	3	5	1	1	1	63	2.5
173:173 Skin	0	0	0	0	2	0	6	2	2	0	3	6	4	9	9	10	17	70	2.8
174:174 Female breast	0	0	0	1	1	5	33	38	65	61	61	43	52	48	26	13	22	469	18.4
179:179 Uterus	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	2	0.1
180:180 Cervix uteri	0	0	0	1	0	0	9	11	10	10	9	6	13	9	4	1	6	89	3.5
181:181 Placenta	0	0	0	0	1	0	1	2	3	1	0	1	0	0	0	0	0	9	0.4
182:182 Corpus uteri	0	0	0	0	0	2	0	2	4	4	4	10	12	7	0	1	6	52	2
183:183 Ovary etc.	0	1	0	2	4	6	8	10	1	7	10	9	15	15	7	6	12	113	4.4
184:184 Other female genital	0	1	0	0	0	0	0	0	1	1	3	0	1	1	1	1	4	14	0.6
188:188 Bladder	0	1	0	0	0	2	3	1	5	2	4	4	4	2	2	7	6	43	1.7
189:189 Kidney	0	6	6	1	0	1	0	4	2	5	2	2	3	4	4	1	1	42	1.7
190:190 Eye	0	11	0	0	1	0	0	0	0	0	0	1	0	4	1	0	1	19	0.7
191:191 Brain	0	13	12	7	5	2	8	4	5	1	4	9	5	2	5	2	2	86	3.4
192:192 Other nervous system	0	1	1	1	0	1	1	0	0	1	0	0	0	0	0	0	0	6	0.2
193:193 Thyroid	0	0	0	6	13	16	30	39	38	19	20	10	12	15	5	9	10	242	9.5
194:194 Other endocrine	0	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0.2
195:195 Ill defined sites	0	1	1	0	1	0	1	0	0	0	0	0	2	4	0	1	0	11	0.4
196:196 Lymph nodes	0	8	9	14	15	18	10	13	5	7	9	9	12	7	6	6	9	157	6.2
199:199 Unknown primary site	0	1	1	0	2	1	1	11	3	4	6	7	6	11	14	5	22	95	3.7

Table 6.1 Incidence rates for cancer cases among Saudis by age group (100,000 population), 1995.

ICD-O (I)	Tot	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	CIR	ASR	S.E.	
ALL SITES	5452	9.9	6.6	7	10.7	13.1	23	36.7	48.6	73.3	101.3	124.4	220.3	238.8	353.2	336.8	406	39.7	72	1.04	
140:140 Lip	6	0	0	0	0	0	0.1	0	0	0	0	0.3	0.4	0.4	0	0.8	0.5	0	0.1	0.03	
141:141 Tongue	39	0	0	0	0	0.1	0.1	0.1	0.2	1.2	0.6	0.6	3.4	0.8	5.2	4.6	1.6	0.3	0.6	0.1	
142:142 Salivary gland	21	0	0	0	0	0.1	0.3	0.3	0.5	0.2	0	1.5	0.4	0	1.5	0.8	1.1	0.2	0.3	0.06	
143:143 Gum	36	0	0	0	0	0.1	0.1	0	0	0.2	0.3	0.6	0.4	2.4	5.2	3.8	6	0.3	0.5	0.09	
144:144 Floor of mouth	3	0	0	0	0	0.1	0	0	0	0.2	0	0	0	0	0	0	0.5	0	0	0.02	
145:145 Other mouth	37	0	0	0	0.1	0	0	0	0	0.2	0.3	0.9	0.9	2.8	4.5	5.3	4.9	0.3	0.6	0.1	
146:146 Oropharynx	42	0	0	0	0	0.2	0	0	0	1	0.9	0.6	2.1	3.3	3.7	2.3	4.4	0.3	0.6	0.1	
147:147 Nasopharynx	105	0	0	0.2	0.6	0.3	0.5	1.1	1.3	1.7	2.3	1.8	5.5	4.5	6	3.8	4.4	0.8	1.4	0.14	
148:148 Hypopharynx	21	0	0	0	0	0	0	0.3	0.2	1	0	1.2	0.4	0	0.7	1.5	3.3	0.2	0.3	0.06	
149:149 Pharynx, NOS	6	0	0	0	0	0.1	0	0.1	0	0	0.3	0	0.4	0	0.7	0	0.5	0	0.1	0.04	
150:150 Oesophagus	137	0	0	0	0	0.1	0	0.6	0.5	2	1.1	2.8	8.1	6.1	9.7	15.2	22.4	1	2	0.18	
151:151 Stomach	268	0	0	0	0	0.5	0.8	0.7	1	1.7	7.4	7.1	12.4	12.2	25.4	25.1	32.7	2	4	0.25	
152:152 Small intestine	31	0.1	0	0	0	0.1	0	0.1	0	0.5	0.6	0.6	3	1.6	1.5	3.8	1.6	0.2	0.5	0.09	
153:153 Colon	191	0	0	0.1	0.1	0.2	0.4	0.7	2.3	2	6.3	6.5	11.5	11.8	12	14.5	10.4	1.4	2.9	0.21	
154:154 Rectum	144	0	0	0	0.1	0	0.7	0.6	1.5	2.4	6.8	5.2	4.3	4.9	12.7	9.9	10.9	1	2.2	0.19	
155:155 Liver	409	0	0	0.1	0.2	0.4	0.4	0.4	1.3	3.4	6.3	13.5	20.1	30.9	42.6	45	34.9	3	6.4	0.32	
156:156 Gallbladder etc.	72	0	0	0	0	0	0	0	0	1	1.1	1.2	5.1	7.3	5.2	4.6	9.3	0.5	1.1	0.13	
157:157 Pancreas	85	0	0	0	0	0.1	0	0.3	0.8	0.7	1.7	3.1	4.3	4.9	6.7	7.6	9.3	0.6	1.3	0.14	
158:158 Peritoneum etc.	10	0	0.1	0	0	0.1	0	0.3	0	0	0.3	0	0	0	0.7	0	0.5	0.1	0.1	0.04	
159:159 Digestive organs, NOS	3	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0.8	0.5	0	0	0.02	
160:160 Nose, sinuses etc.	18	0	0	0	0	0.2	0	0	0.1	0	0.2	0.6	0	0.9	0.4	1.5	0.8	1.6	0.1	0.2	0.06
161:161 Larynx	57	0	0	0	0	0	0.2	0	0.3	1	0.3	2.5	1.7	2.8	10.5	4.6	4.9	0.4	0.9	0.13	
162:162 Bronchus, lung	270	0	0	0	0.1	0.2	0.1	0.6	1.6	2.7	4.8	6.1	15.4	18.3	32.2	27.4	23.5	2	4.3	0.27	
163:163 Pleura	10	0	0	0	0	0.1	0.1	0	0	0.2	0.3	0.3	0	1.2	0.7	0.8	0	0.1	0.1	0.05	
164:164 Other thoracic organs	12	0.1	0	0	0	0.2	0.1	0.4	0	0	0	0	0.4	0.8	0.7	0	0	0.1	0.1	0.04	
169:169 Haemato & retic.sys	475	3.6	2.4	1.9	1.9	0.9	2	3.9	4.7	2.7	3.4	7.4	13.7	11.4	14.2	18.3	16.4	3.5	4.6	0.24	
170:170 Bone	81	0.1	0.2	1.1	0.8	0.9	0.8	0.4	0.3	1	0.3	0	2.1	1.2	0.7	0	1.1	0.6	0.6	0.08	
171:171 Connective tissue	136	0.9	0.4	0.2	0.7	1.1	0.7	1.1	0.8	1.7	4.6	2.8	2.6	4.1	1.5	2.3	2.7	1	1.4	0.14	
173:173 Skin	226	0	0.1	0.1	0.3	0.1	0.9	0.8	1.6	1.5	2.6	4.6	9	10.6	16.5	23.6	32.2	1.6	3.1	0.22	
174:174 Female breast	469	0	0	0	0.1	0.4	3.4	5.3	10.6	14.9	17.4	13.2	22.2	19.5	19.5	9.9	12	3.4	6.6	0.31	
175:175 Male breast	18	0	0	0	0	0	0	0.1	0.2	0.5	0.9	0.6	1.3	0.4	1.5	0	1.6	0.1	0.3	0.07	
179:179 Uterus	2	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0.5	0	0	0.02	
180:180 Cervix uteri	89	0	0	0	0	0	0.9	1.5	1.6	2.4	2.6	1.8	5.5	3.7	3	0.8	3.3	0.6	1.2	0.13	
181:181 Placenta	9	0	0	0	0.1	0	0.1	0.3	0.5	0.2	0	0.3	0	0	0	0	0	0.1	0.1	0.03	
182:182 Corpus uteri	52	0	0	0	0	0.2	0	0.3	0.7	1	1.1	3.1	5.1	2.8	0	0.8	3.3	0.4	0.7	0.11	
183:183 Ovary etc.	113	0	0	0.1	0.3	0.5	0.8	1.4	0.2	1.7	2.8	2.8	6.4	6.1	5.2	4.6	6.5	0.8	1.5	0.15	
184:184 Other female genital	14	0	0	0	0	0	0	0	0.2	0.2	0.9	0	0.4	0.4	0.7	0.8	2.2	0.1	0.2	0.05	
185:185 Prostate	154	0	0	0	0	0	0	0	0	0.2	0	1.5	2.6	6.9	20.2	21.3	38.2	1.1	2.3	0.19	
186:186 Testis	25	0.2	0.1	0	0.1	0.1	0.4	0.4	0.2	0.5	0.6	0	0	0	0	0.8	1.1	0.2	0.2	0.05	
187:187 Other male genital	6	0	0	0	0	0	0.1	0	0	0	0	0	0.4	0.4	0	0.8	1.1	0	0.1	0.03	
188:188 Bladder	210	0	0	0	0	0	0.3	0.7	0.3	1.5	3.2	3.7	4.6	10.7	11.4	18	16	26.2	1.5	3.1	0.22
189:189 Kidney	137	1	0.3	0	0.1	0.2	0.2	0.6	0.8	3.2	2	4.9	4.7	6.1	9.7	3	5.5	1	1.7	0.16	
190:190 Eye	33	0.7	0.1	0	0.1	0	0.1	0	0	0	0	0.3	0.4	1.6	0.7	0.8	2.7	0.2	0.3	0.06	
191:191 Brain	191	1.3	0.9	0.8	1.1	0.5	1.4	1.5	1.8	1	2.3	3.7	4.7	3.3	7.5	5.3	2.2	1.4	1.8	0.15	
192:192 Other nervous system	11	0.1	0	0	0.1	0.1	0.2	0	0	0.2	0	0	0	0.4	0.7	0	0	0.1	0.1	0.04	
193:193 Thyroid	309	0	0	0.3	1.1	1.6	3.3	5.8	7.4	6.1	6	4	8.1	9.4	6	12.2	12.6	2.3	3.6	0.22	
194:194 Other endocrine	19	0.5	0	0	0	0	0	0.1	0	0.2	0	0.3	0.4	0	0	0	0	0.1	0.1	0.03	
195:195 Ill defined sites	24	0.1	0	0.1	0.1	0	0.1	0.1	0.2	0	0	0.3	1.3	1.6	0	3	0.5	0.2	0.3	0.06	
196:196 Lymph nodes	402	0.9	1.6	1.5	2.4	2.8	2.3	3.7	2.6	3.9	4.6	7.1	9.4	10.6	17.2	18.3	16.4	2.9	4.3	0.24	
199:199 Unknown primary site	214	0	0.1	0	0.2	0.4	0.4	2.4	1.3	2.9	3.7	4.6	7.7	9.4	20.2	11.4	27.8	1.6	3	0.22	

Table 6.2 Incidence rates for cancer cases among Saudi males by age group (/100,000 population), 1995.

ICD-O (I)	Tot	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	CIR	ASR	S.E.
ALL SITES	2907	11.5	8	7.9	11	10.7	16.8	25	36.9	59.2	83.3	124	216.9	226.3	376.1	410.5	493.2	41.9	71.6	1.41
140:140 Lip	3	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	1.4	1	0	0.1	0.05
141:141 Tongue	19	0	0	0	0	0.2	0	0.3	0.3	0	0.6	0	0.53	0	0.38	4.1	2	0.3	0.5	0.13
142:142 Salivary gland	11	0	0	0	0	0.2	0.2	0.3	1	0	0	1.2	0.8	0	1.3	0	1	0.2	0.3	0.08
143:143 Gum	15	0	0	0	0	0.2	0	0	0	0	0.6	0	0.8	1.4	6.3	2.8	2.9	0.2	0.4	0.12
144:144 Floor of mouth	2	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	1	0	0	0.04
145:145 Other mouth	15	0	0	0	0	0	0	0	0	0.6	0	0	0	2.1	3.8	6.9	2.9	0.2	0.4	0.11
146:146 Oropharynx	28	0	0.1	0.1	0	0	0	0	0	1.5	0	0	3.8	2.8	5	2.8	7.8	0.4	0.7	0.14
147:147 Nasopharynx	69	0	0.1	0.4	0.4	0	0.4	1.1	1.7	3	3.5	0.6	9.2	5.6	8.8	5.5	5.9	1	1.8	0.23
148:148 Hypopharynx	9	0	0	0	0	0	0	0.3	0	0	0	1.2	0.8	0	0	0	4.9	0.1	0.2	0.07
149:149 Pharynx, NOS	2	0	0	0	0	0.2	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0.02
150:150 Oesophagus	79	0	0	0	0	0.2	0	0.3	0	3	0.6	2.5	6.1	6.3	8.8	15.2	30.3	1.1	2	0.24
151:151 Stomach	167	0	0	0	0	0.2	0.6	1.1	1.7	2.5	11.1	6.9	12.2	14.1	34.1	23.4	38.1	2.4	4.7	0.37
152:152 Small intestine	14	0.2	0	0	0	0.2	0	0.3	0	0	0.6	0.6	2.3	0.7	0	1.4	2.9	0.2	0.3	0.09
153:153 Colon	105	0	0	0.2	0	0	0.6	1.1	2.7	2	5.2	7.5	15.3	9.1	10.1	13.8	11.7	1.5	2.9	0.29
154:154 Rectum	85	0	0	0	0.1	0	1.1	0.5	2	2	7.6	8.1	4.6	1.4	12.6	15.2	11.7	1.2	2.4	0.27
155:155 Liver	315	0.1	0	0.2	0.1	0.2	0.6	0.5	1.4	4	9.3	19.9	28.3	42.9	55.5	71.6	49.8	4.5	9	0.52
156:156 Gallbladder etc.	33	0	0	0	0	0	0	0	1	0	1	1.9	5.3	4.9	3.8	2.8	8.8	0.5	0.9	0.16
157:157 Pancreas	54	0	0	0	0	0.2	0	0	1.4	1	3.5	3.7	3.8	5.6	2.5	6.9	14.7	0.8	1.4	0.2
158:158 Peritoneum etc.	8	0.1	0.1	0	0	0.2	0	0.3	0	0	0.6	0	0.8	0	1.3	0	1	0.1	0.2	0.07
159:159 Digestive organs, NOS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.02
160:160 Nose, sinuses etc.	6	0	0	0	0	0	0	0.3	0	0.5	0.6	0	1.5	0	0	0	1	0.1	0.2	0.07
161:161 Larynx	55	0	0	0	0	0	0.4	0	0.7	2	0	5	3.1	4.2	17.7	8.3	8.8	0.8	1.6	0.22
162:162 Bronchus, lung	208	0	0	0	0.1	0.2	0.2	0.8	2.4	4.5	6.4	10	20.6	26	42.9	42.7	29.3	3	6	0.42
163:163 Pleura	8	0	0	0	0	0.2	0.2	0	0	0	0	0.6	0	2.1	1.3	1.4	0	0.1	0.2	0.08
164:164 Other thoracic organs	8	0.2	0	0	0	0.2	0.2	0.8	0	0	0	0	0	0.7	0	0	0	0.1	0.1	0.05
169:169 Haemato.& retic.sys	263	3.9	2.7	2.6	2	0.7	2.6	4.1	4.7	2.5	1.7	6.2	15.3	8.4	12.6	27.6	15.6	3.8	4.7	0.33
170:170 Bone	50	0	0.4	1.3	1.4	1.7	0.4	0.8	0.3	0	0	0	2.3	0.7	1.3	0	1	0.7	0.7	0.11
171:171 Connective-tissue	73	1.1	0.5	0.1	1	1	0.6	0.5	0.7	1	5.2	3.7	2.3	3.5	1.3	2.8	3.9	1.1	1.5	0.19
173:173 Skin	156	0.1	0.3	0.3	0.3	0.2	0.6	1.1	2.7	3	3.5	5.6	13	11.9	16.4	28.9	41	2.3	3.9	0.33
175:175 Male breast	18	0	0	0	0	0	0	0.3	0.3	1	1.7	1.2	2.3	0.7	2.5	0	2.9	0.3	0.5	0.13
185:185 Prostate	154	0	0	0	0	0	0	0	0	0.5	1	1.2	0	0	0	1.4	2	0.4	0.4	0.1
186:186 Testis	25	0.4	0.2	0	0.3	0.2	0.9	0.8	0.3	1	1.2	0	0	0	0	1.4	2	0.1	0.1	0.06
187:187 Other male genital	6	0	0	0	0	0	0.2	0	0	0	0	0	0.8	0.7	0	1.4	2	0.1	0.1	0.06
188:188 Bladder	167	0	0	0.1	0	0.2	0.9	0.3	1.4	5.5	5.2	6.9	16	18.3	27.8	19.3	41	2.4	4.6	0.36
189:189 Kidney	95	1.6	0.2	0	0.1	0.2	0.4	0	1	4	2.9	8.7	6.1	7.7	11.4	4.1	8.8	1.4	2.3	0.26
190:190 Eye	14	0.4	0.2	0	0	0	0.2	0	0	0	0	0	0.8	0	0	1.4	3.9	0.2	0.2	0.06
191:191 Brain	105	1.6	0.8	0.9	1.5	0.7	1.3	1.9	2	1.5	2.3	1.9	4.6	4.2	6.3	6.9	2	1.5	1.9	0.21
192:192 Other nervous system	5	0.1	0	0	0.1	0	0.2	0	0	0	0	0	0	0.7	1.3	0	0	0.1	0.1	0.05
193:193 Thyroid	67	0	0.1	0	0.4	0.5	0.4	0.8	2.4	3	0.6	1.9	5.3	5.6	3.8	9.6	12.7	1	1.6	0.21
194:194 Other endocrine	13	0.7	0.1	0	0	0	0	0.3	0	0.5	0	0.6	0.8	0	0	0	0	0.2	0.2	0.06
195:195 Ill defined sites	13	0.2	0	0.2	0.1	0	0	0.3	0.3	0	0	0.6	0.8	0	0	4.1	1	0.2	0.3	0.08
196:196 Lymph nodes	245	1.1	2.4	1.6	2.9	2.6	2.6	3.8	3.7	4.5	4.1	8.7	7.6	13.4	21.5	24.8	20.5	3.5	5	0.35
199:199 Unknown primary site	119	0	0.1	0	0.1	0.7	0.6	1.6	1.7	4	4.1	5	9.2	8.4	16.4	13.8	28.3	1.7	3.1	0.29

Table 6.3 Incidence rates for cancer cases among Saudi females by age group (/100,000 population), 1995.

ICD-O (I)		Tot.	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75+	CIR	ASR	S.E.
ALL SITES		2545	8.3	5.1	6	10.4	15.4	28.6	48.7	59.5	86.9	118.5	124.8	224.5	256	319.8	245.6	295.5	37.4	71.2	1.54
140:140	Lip	3	0	0	0	0	0	0.2	0	0	0	0	0.6	0	1	0	0	0	0	0.1	0.05
141:141	Tongue	20	0	0	0	0	0	0.2	0	0	2.4	0.6	1.2	1	1.9	7.4	5.1	1.2	0.3	0.7	0.17
142:142	Salivary gland	10	0	0	0	0	0	0.4	0.3	0	0.5	0	1.8	0	0	1.8	1.7	1.2	0.1	0.3	0.1
143:143	Gum	21	0	0	0	0	0	0.2	0	0	0.5	0	1.2	0	3.9	3.7	5.1	9.9	0.3	0.7	0.15
144:144	Floor of mouth	1	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
145:145	Other mouth	22	0	0	0	0.1	0	0	0	0	0.5	0	1.8	1.9	3.9	5.5	3.4	7.4	0.3	0.7	0.17
146:146	Oropharynx	14	0	0	0	0	0.3	0	0	0	0.5	1.7	1.2	0	3.9	1.8	1.7	0	0.2	0.5	0.13
147:147	Nasopharynx	36	0	0	0	0.8	0.7	0.6	1.1	0.9	0.5	1.1	3	1	2.9	1.8	1.7	2.5	0.5	0.8	0.15
148:148	Hypopharynx	12	0	0	0	0	0	0	0.3	0.3	1.9	0	1.2	0	0	1.8	3.4	1.2	0.2	0.4	0.11
149:149	Pharynx, NOS	4	0	0	0	0	0	0	0	0	0	0.6	0	1	0	1.8	0	1.2	0.1	0.2	0.08
150:150	Oesophagus	58	0	0	0	0	0	0	0.8	0.9	1	1.7	3	10.6	5.8	11	15.3	12.4	0.9	2	0.27
151:151	Stomach	101	0	0	0.1	0	0.9	1	0.3	0.3	1	3.9	7.3	12.6	9.7	12.9	27.3	26	1.5	3.2	0.33
152:152	Small intestine	17	0	0	0	0	0	0	0	0	0	0.6	0.6	3.9	2.9	3.7	6.8	0	0.3	0.6	0.16
153:153	Colon	86	0.1	0	0.1	0.1	0.3	0.2	0.3	1.9	1.9	7.2	5.5	6.8	15.5	14.7	15.3	8.7	1.3	2.8	0.32
154:154	Rectum	59	0	0	0	0	0	0.4	0.6	0.9	2.9	6.1	2.4	3.9	9.7	12.9	3.4	9.9	0.9	2	0.27
155:155	Liver	94	0	0	0	0.3	0.7	0.2	0.3	1.3	2.9	3.3	7.3	9.7	14.5	23.9	11.9	16.1	1.4	3.2	0.34
156:156	Gallbladder etc.	39	0	0	0	0	0	0	0	0	1	2.2	0.6	4.8	10.6	7.4	6.8	9.9	0.6	1.4	0.23
157:157	Pancreas	31	0	0	0	0	0	0	0.6	0.3	0.5	0	2.4	4.8	3.9	12.9	8.5	2.5	0.5	1.2	0.22
158:158	Peritoneum-etc.	2	0	0.1	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0.02
159:159	Digestive organs, NOS	2	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	1.7	0	0	0	0.04
160:160	Nose, sinuses etc.	12	0.1	0.1	0	0.4	0	0	0	0	0	0.6	0	0	1	3.7	1.7	2.5	0.2	0.3	0.11
161:161	Larynx	2	0	0	0	0	0	0	0	0	0	0.6	0	0	1	0	0	0	0	0.1	0.05
162:162	Bronchus,lung	62	0	0	0	0.1	0.2	0	0.3	0.9	1	3.3	2.4	8.7	7.7	16.5	8.5	16.1	0.9	2.1	0.28
163:163	Pleura	2	0	0	0	0	0	0	0	0	0.5	0.6	0	0	0	0	0	0	0	0.1	0.04
164:164	Other thoracic organs	4	0	0	0	0	0.2	0	0	0	0	0	0	0	1	1.8	0	0	0.1	0.1	0.08
169:169	Haemato.& retic.sys	212	3.2	2.1	1.1	1.7	1	1.4	3.6	4.7	2.9	5	8.5	11.6	15.5	16.5	6.8	17.3	3.1	4.5	0.36
170:170	Bone	31	0.2	0	0.9	0.3	0.2	1.2	0	0.3	1.9	0.6	0	1.9	1.9	0	0	1.2	0.5	0.6	0.12
171:171	Connective tissue	63	0.6	0.3	0.3	0.5	1.2	0.8	1.7	0.9	2.4	3.9	1.8	2.9	4.8	1.8	1.7	1.2	0.9	1.4	0.2
173:173	Skin	70	0	0	0	0.3	0	1.2	0.6	0.6	0	1.7	3.6	3.9	8.7	16.5	17.1	21	1	2.2	0.28
174:174	Female breast	469	0	0	0.1	0.1	0.9	6.5	10.6	20.6	29.3	33.9	26.1	50.3	46.4	47.8	22.2	27.2	6.9	13.9	0.68
179:179	Uterus	2	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	1.2	0	0.1	0.04
180:180	Cervix uteri	89	0	0	0.1	0	0	1.8	3.1	3.2	4.8	5	3.6	12.6	8.7	7.4	1.7	7.4	1.3	2.5	0.29
181:181	Placenta	9	0	0	0	0.1	0	0.2	0.6	0.9	0.5	0	0.6	0	0	0	0	0	0.1	0.2	0.06
182:182	Corpus uteri	52	0	0	0	0	0.3	0	0.6	1.3	1.9	2.2	6.1	11.6	6.8	0	1.7	7.4	0.8	1.6	0.23
183:183	Ovary etc.	113	0.1	0	0.2	0.5	1	1.6	2.8	0.3	3.4	5.6	5.5	14.5	14.5	12.9	10.2	14.8	1.7	3.3	0.34
184:184	Other female genital	14	0.1	0	0	0	0	0	0	0.3	0.5	1.7	0	1	1	1.8	1.7	4.9	0.2	0.4	0.12
188:188	Bladder	43	0.1	0	0	0	0.3	0.6	0.3	1.6	1	2.2	2.4	3.9	1.9	3.7	11.9	7.4	0.6	1.2	0.2
189:189	Kidney	42	0.5	0.5	0.1	0	0.2	0	1.1	0.6	2.4	1.1	1.2	2.9	3.9	7.4	1.7	1.2	0.6	1.1	0.19
190:190	Eye	19	0.9	0	0	0.1	0	0	0	0	0	0	0.6	0	3.9	1.8	0	1.2	0.3	0.4	0.11
191:191	Brain	86	1.1	1	0.7	0.7	0.3	1.6	1.1	1.6	0.5	2.2	5.5	4.8	1.9	9.2	3.4	2.5	1.3	1.8	0.23
192:192	Other nervous system	6	0.1	0.1	0.1	0	0.2	0.2	0	0	0.5	0	0	0	0	0	0	0	0.1	0.1	0.04
193:193	Thyroid	242	0	0	0.6	1.7	2.8	5.9	10.9	12	9.1	11.1	6.1	11.6	14.5	9.2	15.3	12.4	3.6	5.7	0.4
194:194	Other endocrine	6	0.4	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.02
195:195	Ill defined sites	11	0.1	0.1	0.1	0	0.2	0	0	0	0	0	0	1.9	3.9	0	1.7	0	0.2	0.3	0.1
196:196	Lymph nodes	157	0.7	0.8	1.4	2	3.1	2	3.6	1.6	3.4	5	5.5	11.6	6.8	11	10.2	11.1	2.3	3.5	0.32
199:199	Unknown primary site	95	0.1	0.1	0	0.3	0.2	0.2	3.1	0.9	1.9	3.3	4.2	5.8	10.6	25.7	8.5	27.2	1.4	3	0.33

Table 7.1 Age distribution of cancer cases for all Saudis, 1996

ICD-O (I)	Unk.	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Tot.	%
ALL SITES	0	227	161	130	144	149	158	261	291	293	329	433	483	549	385	450	696	5139	100
140:140 Lip	0	0	0	0	1	0	0	0	0	0	0	1	1	4	0	2	3	13	0.3
141:141 Tongue	0	0	0	0	0	0	0	2	1	5	2	5	6	11	5	6	7	50	1
142:142 Salivary gland	0	0	0	0	0	0	0	0	1	1	1	0	4	2	1	0	2	14	0.3
143:143 Gum	0	0	0	0	0	0	0	1	0	0	2	1	3	1	3	6	5	22	0.4
144:144 Floor of mouth	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	0	4	0.1
145:145 Other mouth	0	0	0	0	2	1	1	1	2	1	3	10	2	2	4	2	8	39	0.8
146:146 Oropharynx	0	0	1	2	0	0	0	1	0	0	4	1	0	3	2	2	4	20	0.4
147:147 Nasopharynx	0	2	0	2	7	8	2	14	9	13	20	19	16	11	6	2	5	136	2.6
148:148 Hypopharynx	0	0	0	0	0	0	1	1	4	3	2	4	3	5	3	3	8	37	0.7
149:149 Pharynx, NOS	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	1	4	0.1
150:150 Oesophagus	0	0	1	0	0	1	2	4	7	4	5	15	7	22	17	16	40	141	2.7
151:151 Stomach	0	1	0	0	0	3	2	9	10	8	10	26	25	30	26	34	46	230	4.5
152:152 Small intestine	0	2	1	0	1	1	0	0	0	3	1	2	4	4	2	2	5	28	0.5
153:153 Colon	0	1	0	1	1	3	2	8	9	12	17	22	21	19	10	17	21	164	3.2
154:154 Rectum	0	0	0	0	0	6	5	4	10	9	10	14	9	16	6	17	24	130	2.5
155:155 Liver	0	2	4	2	0	0	1	5	6	14	18	31	54	65	39	62	69	372	7.2
156:156 Gallbladder etc.	0	0	0	0	0	0	1	2	1	3	1	4	6	6	5	15	5	49	1
157:157 Pancreas	0	0	0	0	0	0	0	3	1	2	7	16	11	13	10	7	10	80	1.6
158:158 Peritoneum etc.	0	1	1	0	0	0	0	0	1	0	0	5	1	0	0	1	1	11	0.2
159:159 Digestive organs, NOS	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	2	5	0.1
160:160 Nose, sinuses etc.	0	0	0	0	0	3	0	0	0	1	1	3	3	1	1	4	2	19	0.4
161:161 Larynx	0	0	0	0	0	0	0	0	2	5	5	3	7	3	6	9	14	54	1.1
162:162 Bronchus, lung	0	0	1	0	2	0	0	10	7	3	13	24	24	41	36	38	48	247	4.8
163:163 Pleura	0	0	1	0	0	0	0	0	0	0	0	0	1	4	4	0	1	11	0.2
164:164 Other thoracic organs	0	6	0	1	1	1	6	0	0	0	0	0	3	0	0	0	1	19	0.4
169:169 Haemato. & retic. sys	0	99	41	29	31	27	20	11	22	12	15	19	25	28	14	18	34	445	8.7
170:170 Bone	0	2	7	15	13	10	3	4	3	1	3	6	3	2	1	2	3	78	1.5
171:171 Connective tissue	0	9	6	6	5	5	5	7	3	2	10	5	5	2	7	3	5	85	1.7
173:173 Skin	0	1	3	4	4	4	5	9	11	12	16	8	28	26	21	31	51	234	4.6
174:174 Female breast	0	0	0	0	1	5	22	50	79	62	61	63	38	46	27	17	21	492	9.6
175:175 Male breast	0	0	0	0	0	0	0	1	1	0	2	2	1	0	0	0	1	5	0.1
179:179 Uterus	0	0	0	0	1	0	1	1	1	0	2	2	1	0	1	1	1	12	0.2
180:180 Cervix uteri	0	0	0	0	0	1	5	8	11	16	5	11	8	10	4	6	12	97	1.9
181:181 Placenta	0	0	0	0	2	0	3	0	2	1	1	0	0	0	0	0	0	9	0.2
182:182 Corpus uteri	0	0	0	0	1	0	0	2	1	2	0	4	10	8	6	4	3	41	0.8
183:183 Ovary etc.	0	0	1	6	7	10	4	4	9	10	4	7	13	11	5	7	10	108	2.1
184:184 Other female genital	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	2	5	11	0.2
185:185 Prostate	0	1	0	0	0	0	1	0	1	2	3	2	7	26	19	31	63	156	3
186:186 Testis	0	1	2	1	0	6	4	3	1	6	2	0	1	0	0	0	2	29	0.6
187:187 Other male genital	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
188:188 Bladder	0	2	0	0	0	0	2	2	9	7	6	15	31	13	19	18	35	159	3.1
189:189 Kidney	0	17	8	1	1	0	2	4	1	7	6	6	14	14	9	6	13	109	2.1
190:190 Eye	0	20	1	2	0	0	1	1	0	1	0	1	2	2	5	5	2	43	0.8
191:191 Brain	0	32	39	21	12	5	9	10	11	9	6	17	14	14	8	6	7	220	4.3
192:192 Other nervous system	0	2	0	1	0	1	1	0	0	0	0	0	1	1	0	0	0	7	0.1
193:193 Thyroid	0	0	1	3	7	24	29	42	26	22	26	15	16	16	9	10	13	259	5
194:194 Other endocrine	0	6	3	2	1	1	2	0	0	0	0	1	0	1	2	1	0	20	0.4
195:195 Ill defined sites	0	1	1	0	1	1	0	2	1	3	1	2	1	3	3	4	5	29	0.6
196:196 Lymph nodes	0	16	34	26	40	18	13	26	18	19	22	24	29	32	21	15	45	398	7.7
199:199 Unknown primary site	0	3	4	3	2	2	3	7	8	12	16	17	22	28	17	16	33	193	3.8

Table 7.2 Age distribution of cancer cases for Saudi males, 1996

ICD-O (I)	Unk	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Tot.	%
ALL SITES	0	127	100	60	83	66	67	106	108	108	148	196	258	326	246	272	462	2733	100
140:140 Lip	0	0	0	0	0	1	0	0	0	0	0	1	1	3	0	2	2	10	0.4
141:141 Tongue	0	0	0	0	0	0	0	0	0	0	1	0	2	7	3	5	5	23	0.8
142:142 Salivary gland	0	0	0	0	0	0	0	0	1	1	1	0	4	1	0	0	2	10	0.4
143:143 Gum	0	0	0	0	0	0	0	0	0	0	2	1	2	0	3	3	2	13	0.5
144:144 Floor of mouth	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	2	0.1
145:145 Other mouth	0	0	0	0	1	0	0	0	0	0	2	5	0	2	1	1	2	14	0.5
146:146 Oropharynx	0	0	1	2	0	0	0	1	0	0	3	0	0	3	2	1	4	17	0.6
147:147 Nasopharynx	0	0	0	2	4	3	2	9	5	8	18	10	15	10	3	1	2	92	3.4
148:148 Hypopharynx	0	0	0	0	0	0	0	0	2	1	0	2	1	3	1	3	8	21	0.8
149:149 Pharynx, NOS	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	0.1
150:150 Oesophagus	0	0	1	0	0	1	1	3	5	1	2	5	2	9	10	9	23	72	2.6
151:151 Stomach	0	0	0	0	0	2	1	7	9	6	5	16	14	20	16	24	33	153	5.6
152:152 Small intestine	0	1	1	0	1	1	0	0	0	2	0	1	2	2	1	1	3	16	0.6
153:153 Colon	0	0	0	0	0	2	2	4	5	3	7	10	10	10	7	5	13	78	2.9
154:154 Rectum	0	0	0	0	0	3	3	4	7	1	6	5	6	10	2	14	17	78	2.9
155:155 Liver	0	1	3	2	0	0	1	2	6	11	12	20	37	50	33	46	52	276	10.1
156:156 Gallbladder etc.	0	0	0	0	0	0	1	2	0	0	1	3	3	3	2	7	3	25	0.9
157:157 Pancreas	0	0	0	0	0	0	0	2	1	2	5	12	5	10	7	3	7	54	2
158:158 Peritoneum etc.	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3	0.1
159:159 Digestive organs, NOS	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2	0.1
160:160 Nose, sinuses etc.	0	0	0	0	0	2	0	0	0	1	0	1	3	1	1	3	2	14	0.5
161:161 Larynx	0	0	0	0	0	0	0	0	0	4	5	2	7	3	5	8	11	45	1.6
162:162 Bronchus, lung	0	0	0	0	2	0	0	5	6	2	9	17	18	36	32	28	41	196	7.2
163:163 Pleura	0	0	1	0	0	0	0	0	0	0	0	0	1	3	4	0	1	10	0.4
164:164 Other thoracic organs	0	3	0	0	1	0	3	0	0	0	0	0	0	0	0	0	1	8	0.3
169:169 Haemato.& retic.sys	0	55	24	14	21	19	9	7	10	7	7	11	13	17	10	10	29	263	9.6
170:170 Bone	0	1	5	4	8	5	2	4	0	0	1	5	1	1	0	1	3	41	1.5
171:171 Connective tissue	0	4	5	4	3	2	4	5	1	1	5	3	3	2	4	3	2	51	1.9
173:173 Skin	0	0	0	2	3	1	3	7	8	3	9	7	16	16	12	13	34	134	4.9
175:175 Male breast	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	1	5	0.2
185:185 Prostate	0	1	0	0	0	0	1	0	1	2	3	2	7	26	19	31	63	156	5.7
186:186 Testis	0	1	2	1	0	6	4	3	1	6	2	0	1	0	0	0	2	29	1.1
187:187 Other male genital	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
188:188 Bladder	0	2	0	0	0	0	1	1	7	5	4	11	28	10	17	16	31	133	4.9
189:189 Kidney	0	6	1	1	1	0	1	1	0	4	3	3	8	8	9	3	11	60	2.2
190:190 Eye	0	13	0	0	0	0	1	1	0	1	0	1	0	1	3	2	2	25	0.9
191:191 Brain	0	19	23	8	8	3	7	6	8	7	2	11	11	11	5	4	4	137	5
192:192 Other nervous system	0	2	0	1	0	1	1	0	0	0	0	0	0	1	0	0	0	6	0.2
193:193 Thyroid	0	0	0	1	1	4	4	7	8	8	9	5	5	3	6	4	2	67	2.5
194:194 Other endocrine	0	4	1	1	1	1	2	0	0	0	0	1	0	1	2	1	0	15	0.5
195:195 Ill defined sites	0	0	1	0	1	0	0	1	1	1	1	2	0	2	2	1	3	16	0.6
196:196 Lymph nodes	0	14	26	16	26	9	11	18	11	13	16	14	17	23	13	11	21	259	9.5
199:199 Unknown primary site	0	0	4	1	1	0	2	5	3	7	5	7	13	16	11	7	19	101	3.7

Table 7.3 Age distribution of cancer cases for all Saudi females, 1996

ICD-O (I)	Unk	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75+	Tot	%
ALL SITES	0	100	61	70	61	83	91	155	183	185	181	237	225	223	139	178	234	2406	100
140:140 Lip	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	3	0.1
141:141 Tongue	0	0	0	0	0	0	0	2	1	5	1	5	4	4	2	1	2	27	1.1
142:142 Salivary gland	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	4	0.2
143:143 Gum	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	3	3	9	0.4
144:144 Floor of mouth	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	0.1
145:145 Other mouth	0	0	0	0	1	1	1	1	2	1	1	5	2	0	3	1	6	25	1
146:146 Oropharynx	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	3	0.1
147:147 Nasopharynx	0	2	0	0	3	5	0	5	4	5	2	9	1	1	3	1	3	44	1.8
148:148 Hypopharynx	0	0	0	0	0	0	1	1	2	2	2	2	2	2	2	0	0	16	0.7
149:149 Pharynx, NOS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0.1
150:150 Oesophagus	0	0	0	0	0	0	1	1	2	3	3	10	5	13	7	7	17	69	2.9
151:151 Stomach	0	1	0	0	0	1	1	2	1	2	5	10	11	10	10	10	13	77	3.2
152:152 Small intestine	0	1	0	0	0	0	0	0	0	1	1	1	2	2	1	1	2	12	0.5
153:153 Colon	0	1	0	1	1	1	0	4	4	9	10	12	11	9	3	12	8	86	3.6
154:154 Rectum	0	0	0	0	0	3	2	0	3	8	4	9	3	6	4	3	7	52	2.2
155:155 Liver	0	1	1	0	0	0	0	3	0	3	6	11	17	15	6	16	17	96	4
156:156 Gallbladder etc.	0	0	0	0	0	0	0	0	1	3	0	1	3	3	3	8	2	24	1
157:157 Pancreas	0	0	0	0	0	0	0	1	0	0	2	4	6	3	3	4	3	26	1.1
158:158 Peritoneum etc.	0	1	0	0	0	0	0	0	0	0	0	4	1	0	0	1	1	8	0.3
159:159 Digestive organs, NOS	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	3	0.1
160:160 Nose, sinuses etc.	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	1	0	5	0.2
161:161 Larynx	0	0	0	0	0	0	0	0	2	1	0	1	0	0	1	1	3	9	0.4
162:162 Bronchus, lung	0	0	1	0	0	0	0	5	1	1	4	7	6	5	4	10	7	51	2.1
163:163 Pleura	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
Other thoracic organs	0	3	0	1	0	1	3	0	0	0	0	0	3	0	0	0	0	11	0.5
164:164 Haemato.& retic.sys	0	44	17	15	10	8	11	4	12	5	8	8	12	11	4	8	5	182	7.6
169:169 Bone	0	1	2	11	5	5	1	0	3	1	2	1	2	1	1	1	0	37	1.5
170:170 Connective tissue	0	5	1	2	2	3	1	2	2	1	5	2	2	0	3	0	3	34	1.4
171:171 Skin	0	1	3	2	1	3	2	2	3	9	7	1	12	10	9	18	17	100	4.2
173:173 Female breast	0	0	0	0	1	5	22	50	79	62	61	63	38	46	27	17	21	492	20.4
174:174 Uterus	0	0	0	0	1	0	1	1	1	0	2	2	1	0	1	1	1	12	0.5
179:179 Cervix uteri	0	0	0	0	0	1	5	8	11	16	5	11	8	10	4	6	12	97	4
180:180 Placenta	0	0	0	0	2	0	3	0	2	1	1	0	0	0	0	0	0	9	0.4
181:181 Corpus uteri	0	0	0	0	1	0	0	2	1	2	0	4	10	8	6	4	3	41	1.7
182:182 Ovary etc.	0	0	1	6	7	10	4	4	9	10	4	7	13	11	5	7	10	108	4.5
183:183 Other female genital	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	2	5	11	0.5
184:184 Bladder	0	0	0	0	0	0	1	1	2	2	2	4	3	3	2	2	4	26	1.1
188:188 Kidney	0	11	7	0	0	0	1	3	1	3	3	3	6	6	0	3	2	49	2
189:189 Eye	0	7	1	2	0	0	0	0	0	0	0	0	2	1	2	3	0	18	0.7
190:190 Brain	0	13	16	13	4	2	2	4	3	2	4	6	3	3	3	2	3	83	3.4
191:191 Other nervous system	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
192:192 Thyroid	0	0	1	2	6	20	25	35	18	14	17	10	11	13	3	6	11	192	8
193:193 Other endocrine	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.2
194:194 Ill defined sites	0	1	0	0	0	1	0	1	0	2	0	0	1	1	1	3	2	13	0.5
195:195 Lymph nodes	0	2	8	10	14	9	2	8	7	6	6	10	12	9	8	4	24	139	5.8
196:196 Unknown primary site	0	3	0	2	1	2	1	2	5	5	11	10	9	12	6	9	14	92	3.8

Table 8.1 Incidence rates for cancer cases among Saudis by age group (/100,000 population), 1996

ICD-O (1)	Tot	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	CIR	ASR	SE	
ALL SITES	5139	9.1	6.6	6.3	9.3	12.4	15.7	34.9	45.9	69.1	90.3	128.3	198.8	215.4	277.8	330.7	366.2	36.1	65.1	0.97	
140:140 Lip	13	0	0	0	0	0.1	0	0	0	0	0	0.3	0.4	1.6	0	1.5	1.6	0.1	0.2	0.05	
141:141 Tongue	50	0	0	0	0	0	0	0.3	0.2	1.2	0.5	1.5	2.5	4.3	3.6	4.4	3.7	0.4	0.7	0.11	
142:142 Salivary gland	14	0	0	0	0.1	0	0	0	0.2	0.2	0.3	0	1.6	0.8	0.7	0	1.1	0.1	0.2	0.05	
143:143 Gum	22	0	0	0	0	0	0	0.1	0	0	0.5	0.3	1.2	0.4	2.2	4.4	2.6	0.2	0.3	0.07	
144:144 Floor of mouth	4	0	0	0	0	0	0	0	0	0	0.3	0.3	0	0	0	1.5	0	0	0.1	0.03	
145:145 Other mouth	39	0	0	0	0.1	0.1	0.1	0.1	0.3	0.2	0.8	3	0.8	0.8	2.9	1.5	4.2	0.3	0.5	0.09	
146:146 Oropharynx	20	0	0	0.1	0	0	0	0.1	0	0	1.1	0.3	0	1.2	1.4	1.5	2.1	0.1	0.3	0.06	
147:147 Nasopharynx	136	0.1	0	0.1	0.5	0.7	0.2	1.9	1.4	3.1	5.5	5.6	6.6	4.3	4.3	1.5	2.6	1	1.8	0.16	
148:148 Hypopharynx	37	0	0	0	0	0	0.1	0.1	0.6	0.7	0.5	1.2	1.2	2	2.2	2.2	4.2	0.3	0.5	0.09	
149:149 Pharynx, NOS	4	0	0	0	0	0.1	0	0	0	0	0	0	0.4	0.4	0	0	0.5	0	0	0.03	
150:150 Oesophagus	141	0	0	0	0	0.1	0.2	0.5	1.1	0.9	1.4	4.4	2.9	8.6	12.3	11.8	21	1	2	0.17	
151:151 Stomach	230	0	0	0	0	0.2	0.2	1.2	1.6	1.9	2.7	7.7	10.3	11.8	18.8	25	24.2	1.6	3.3	0.22	
152:152 Small intestine	28	0.1	0	0	0.1	0.1	0	0	0	0.7	0.3	0.6	1.6	1.6	1.4	1.5	2.6	0.2	0.4	0.07	
153:153 Colon	164	0	0	0	0.1	0.2	0.2	1.1	1.4	2.8	4.7	6.5	8.6	7.5	7.2	12.5	11	1.2	2.3	0.19	
154:154 Rectum	130	0	0	0	0	0.5	0.5	0.5	1.6	2.1	2.7	4.1	3.7	6.3	4.3	12.5	12.6	0.9	1.7	0.16	
155:155 Liver	372	0.1	0.2	0.1	0	0	0.1	0.7	0.9	3.3	4.9	9.2	22.2	25.5	28.1	45.6	36.3	2.6	5.5	0.29	
156:156 Gallbladder etc.	49	0	0	0	0	0	0.1	0.3	0.2	0.7	0.3	1.2	2.5	2.4	3.6	11	2.6	0.3	0.7	0.11	
157:157 Pancreas	80	0	0	0	0	0	0	0.4	0.2	0.5	1.9	4.7	4.5	5.1	7.2	5.1	5.3	0.6	1.2	0.14	
158:158 Peritoneum etc.	11	0	0	0	0	0	0	0	0.2	0	0	1.5	0.4	0	0	0.7	0.5	0.1	0.1	0.04	
159:159 Digestive organs, NOS	5	0	0	0	0	0	0	0	0	0	0.3	0	0.4	0	0	0	1.1	0	0.1	0.04	
160:160 Nose, sinuses etc.	19	0	0	0	0	0.2	0	0	0	0.2	0.3	0.9	1.2	0.4	0.7	2.9	1.1	0.1	0.3	0.06	
161:161 Larynx	54	0	0	0	0	0	0	0	0.3	1.2	1.4	0.9	2.9	1.2	4.3	6.6	7.4	0.4	0.8	0.11	
162:162 Bronchus, lung	247	0	0	0	0.1	0	0	1.3	1.1	0.7	3.6	7.1	9.9	16.1	26	27.9	25.3	1.7	3.7	0.24	
163:163 Pleura	11	0	0	0	0	0	0	0	0	0	0	0	0.4	1.6	2.9	0	0.5	0.1	0.2	0.06	
164:164 Other thoracic organs	19	0.2	0	0	0.1	0.1	0.6	0	0	0	0	0	1.2	0	0	0	0.5	0.1	0.2	0.04	
169:169 Haemato.& retic.sys	445	4	1.7	1.4	2	2.2	2	1.5	3.5	2.8	4.1	5.6	10.3	11	10.1	13.2	17.9	3.1	4.1	0.22	
170:170 Bone	78	0.1	0.3	0.7	0.8	0.8	0.3	0.5	0.5	0.2	0.8	1.8	1.2	0.8	0.7	1.5	1.6	0.5	0.6	0.08	
171:171 Connective tissue	85	0.4	0.2	0.3	0.3	0.4	0.5	0.9	0.5	0.5	2.7	1.5	2.1	0.8	5.1	2.2	2.6	0.6	0.9	0.11	
173:173 Skin	234	0	0.1	0.2	0.3	0.3	0.5	1.2	1.7	2.8	4.4	2.4	11.5	10.2	15.2	22.8	26.8	1.6	3.2	0.22	
174:174 Female breast	492	0	0	0	0.1	0.4	2.2	6.7	12.5	14.6	16.7	18.7	15.6	18	19.5	12.5	11	35	6.6	0.31	
175:175 Male breast	5	0	0	0	0	0	0	0.1	0.2	0	0	0.3	0.4	0	0	0	0.5	0	0.1	0.03	
179:179 Uterus	12	0	0	0	0.1	0	0.1	0.1	0.2	0	0.5	0.6	0.4	0	0.7	0.7	0.5	0.1	0.2	0.05	
180:180 Cervix uteri	97	0	0	0	0	0.1	0.5	1.1	1.7	3.8	1.4	3.3	3.3	3.9	2.9	4.4	6.3	0.7	1.3	0.13	
181:181 Placenta	9	0	0	0	0.1	0	0.3	0	0.3	0.2	0.3	0	0	0	0	0	0	0.1	0.1	0.03	
182:182 Corpus uteri	41	0	0	0	0.1	0	0	0.3	0.2	0.5	0	1.2	4.1	3.1	4.3	2.9	1.6	0.3	0.6	0.1	
183:183 Ovary etc.	108	0	0	0.3	0.5	0.8	0.4	0.5	1.4	2.4	1.1	2.1	5.4	4.3	3.6	5.1	5.3	0.8	1.3	0.13	
184:184 Other female genital	11	0	0	0	0	0	0	0	0.3	0.2	0	0	0	0.4	0	1.5	2.6	0.1	0.1	0.04	
185:185 Prostate	156	0	0	0	0	0	0.1	0	0.2	0.5	0.8	0.6	2.9	10.2	13.7	22.8	33.1	1.1	2.2	0.18	
186:186 Testis	29	0	0.1	0	0	0.5	0.4	0.4	0.2	1.4	0.5	0	0.4	0	0	0	1.1	0.2	0.3	0.06	
187:187 Other male genital	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0.02	
188:188 Bladder	159	0.1	0	0	0	0	0	0.2	0.3	1.4	1.6	1.6	4.4	12.8	5.1	13.7	13.2	18.4	1.1	2.3	0.19
189:189 Kidney	109	0.7	0.3	0	0.1	0	0.2	0.5	0.2	1.6	1.6	1.8	5.8	5.5	6.5	4.4	6.8	0.8	1.3	0.14	
190:190 Eye	43	0.8	0	0.1	0	0	0.1	0.1	0	0.2	0	0.3	0.8	0.8	3.6	3.7	1.1	0.3	0.4	0.08	
191:191 Brain	220	1.3	1.6	1	0.8	0.4	0.9	1.3	1.7	2.1	1.6	5	5.8	5.5	5.8	4.4	3.7	1.5	2	0.16	
192:192 Other nervous system	7	0.1	0	0	0	0.1	0.1	0	0	0	0	0	0.4	0.4	0	0	0	0	0.1	0.03	
193:193 Thyroid	259	0	0	0.1	0.5	2	2.9	5.6	4.1	5.2	7.1	4.4	6.6	6.3	6.5	7.3	6.8	1.8	3	0.2	
194:194 Other endocrine	20	0.2	0.1	0.1	0.1	0.1	0.2	0	0	0	0	0.3	0	0.4	1.4	0.7	0	0.1	0.2	0.05	
195:195 Ill defined sites	29	0	0	0	0.1	0.1	0	0.3	0.2	0.7	0.3	0.6	0.4	1.2	2.2	2.9	2.6	0.2	0.4	0.07	
196:196 Lymph nodes	398	0.6	1.4	1.3	2.6	1.5	1.3	3.5	2.8	4.5	6	7.1	11.9	12.6	15.2	11	23.7	2.8	4.3	0.24	
199:199 Unknown primary site	193	0.1	0.2	0.1	0.1	0.2	0.3	0.9	1.3	2.8	4.4	5	9.1	11	12.3	11.8	17.4	1.4	2.7	0.2	

Table 8.2 Incidence rates for cancer cases among Saudi males by age group (/100,000 population), 1996

ICDO (I)	Tot	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75+	CIR	ASR	S.E.
ALL SITES	2733	10	8.1	5.7	10.9	10.9	13.9	28	35.3	51.8	83.1	117.7	190	221	299.4	361.3	435.1	38	64.6	1.31
140:140 Lip	10	0	0	0	0	0.2	0	0	0	0	0	0.6	0.7	2	0	2.7	1.9	0.1	0.2	0.08
141:141 Tongue	23	0	0	0	0	0	0	0	0	0	0.6	0	1.5	4.7	3.7	6.6	4.7	0.3	0.6	0.13
142:142 Salivary gland	10	0	0	0	0	0	0	0	0.3	0.5	0.6	0	2.9	0.7	0	0	1.9	0.1	0.3	0.09
143:143 Gum	13	0	0	0	0	0	0	0	0	0	1.1	0.6	1.5	0	3.7	4	1.9	0.2	0.4	0.11
144:144 Floor of mouth	2	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	1.3	0	0	0.1	0.04
145:145 Other mouth	14	0	0	0	0.1	0	0	0	0	0	1.1	3	0	1.4	1.2	1.3	1.9	0.2	0.4	0.11
146:146 Oropharynx	17	0	0.1	0.2	0	0	0	0.3	0	0	1.7	0	0	2	2.4	1.3	3.8	0.2	0.4	0.1
147:147 Nasopharynx	92	0	0	0.2	0.5	0.5	0.4	2.4	1.6	3.8	10.1	6	11	6.8	3.7	1.3	1.9	1.3	2.4	0.26
148:148 Hypopharynx	21	0	0	0	0	0	0	0	0.7	0.5	0	1.2	0.7	2	1.2	4	7.5	0.3	0.5	0.11
149:149 Pharynx, NOS	2	0	0	0	0	0	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0.1	0.04
150:150 Oesophagus	72	0	0.1	0	0	0.2	0.2	0.8	1.6	0.5	1.1	3	1.5	6.1	12.2	12	21.7	1	1.8	0.22
151:151 Stomach	153	0	0	0	0	0.3	0.2	1.9	2.9	2.9	2.8	9.6	10.3	13.6	19.5	31.9	31.1	2.1	4	0.33
152:152 Small intestine	16	0.1	0.1	0	0.1	0.2	0	0	0	1	0	0.6	1.5	1.4	1.2	1.3	2.8	0.2	0.4	0.1
153:153 Colon	78	0	0	0	0	0.3	0.4	1.1	1.6	1.4	3.9	6	7.4	6.8	8.5	6.6	12.2	1.1	2	0.24
154:154 Rectum	78	0	0	0	0	0.5	0.6	1.1	2.3	0.5	3.4	3	4.4	6.8	2.4	18.6	16	1.1	1.9	0.22
155:155 Liver	276	0.1	0.2	0.2	0	0	0.2	0.5	2	5.3	6.7	12	27.3	33.9	40.2	61.1	49	3.8	7.4	0.46
156:156 Gallbladder etc.	25	0	0	0	0	0	0.2	0.5	0	0	0.6	1.8	2.2	2	2.4	9.3	2.8	0.3	0.7	0.13
157:157 Pancreas	54	0	0	0	0	0	0	0.5	0.3	1	2.8	7.2	3.7	6.8	8.5	4	6.6	0.8	1.5	0.21
158:158 Peritoneum etc.	3	0	0.1	0	0	0	0	0	0.3	0	0	0.6	0	0	0	0	0	0	0.1	0.04
159:159 Digestive organs, NOS	2	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0.9	0	0.1	0.04
160:160 Nose, sinuses etc.	14	0	0	0	0	0.3	0	0	0	0.5	0	0.6	2.2	0.7	1.2	4	1.9	0.2	0.4	0.1
161:161 Larynx	45	0	0	0	0	0	0	0	0	1.9	2.8	1.2	5.2	2	6.1	10.6	10.4	0.6	1.2	0.19
162:162 Bronchus, lung	196	0	0	0	0.3	0	0	1.3	2	1	5.1	10.2	13.3	24.4	38.9	37.2	38.6	2.7	5.3	0.39
163:163 Pleura	10	0	0.1	0	0	0	0	0	0	0	0	0	0.7	2	4.9	0	0.9	0.1	0.3	0.09
164:164 Other thoracic organs	8	0.2	0	0	0.1	0	0.6	0	0	0	0	0	0	0	0	0	0.9	0.1	0.1	0.04
169:169 Haemato. & retic. sys	263	4.3	2	1.3	2.7	3.1	1.9	1.9	3.3	3.4	3.9	6.6	9.6	11.5	12.2	13.3	27.3	3.7	4.6	0.32
170:170 Bone	41	0.1	0.4	0.4	1	0.8	0.4	1.1	0	0	0.6	3	0.7	0.7	0	1.3	2.8	0.6	0.7	0.12
171:171 Connective tissue	51	0.3	0.4	0.4	0.4	0.3	0.8	1.3	0.3	0.5	2.8	1.8	2.2	1.4	4.9	4	1.9	0.7	1	0.16
173:173 Skin	134	0	0	0.2	0.4	0.2	0.6	1.9	2.6	1.4	5.1	4.2	11.8	10.8	14.6	17.3	32	1.9	3.3	0.3
175:175 Male breast	5	0	0	0	0	0	0	0.3	0.3	0	0	0.6	0.7	0	0	0	0.9	0.1	0.1	0.05
185:185 Prostate	156	0.1	0	0	0	0	0.2	0	0.3	1	1.7	1.2	5.2	17.6	23.1	41.2	59.3	2.2	3.9	0.32
186:186 Testis	29	0.1	0.2	0.1	0	1	0.8	0.8	0.3	2.9	1.1	0	0.7	0	0	0	1.9	0.4	0.6	0.11
187:187 Other male genital	1	0	0	0	0	0	0	0	0	0	0	0	0	0.7	0	0	0	0	0	0.03
188:188 Bladder	133	0.2	0	0	0	0	0.2	0.3	2.3	2.4	2.2	6.6	20.6	6.8	20.7	21.3	29.2	1.9	3.5	0.31
189:189 Kidney	60	0.5	0.1	0.1	0.1	0	0.2	0.3	0	1.9	1.7	1.8	5.9	5.4	11	4	10.4	0.8	1.5	0.2
190:190 Eye	25	1	0	0	0	0	0.2	0.3	0	0.5	0	0.6	0	0.7	3.7	2.7	1.9	0.3	0.4	0.1
191:191 Brain	137	1.5	1.9	0.8	1	0.5	1.5	1.6	2.6	3.4	1.1	6.6	8.1	7.5	6.1	5.3	3.8	1.9	2.5	0.24
192:192 Other nervous system	6	0.2	0	0.1	0	0.2	0.2	0	0	0	0	0	0	0.7	0	0	0	0.1	0.1	0.04
193:193 Thyroid	67	0	0	0.1	0.1	0.7	0.8	1.9	2.6	3.8	5.1	3	3.7	2	7.3	5.3	1.9	0.9	1.7	0.22
194:194 Other endocrine	15	0.3	0.1	0.1	0.1	0.2	0.4	0	0	0	0	0.6	0	0.7	2.4	1.3	0	0.2	0.3	0.08
195:195 Ill defined sites	16	0	0.1	0	0.1	0	0	0.3	0.3	0.5	0.6	1.2	0	1.4	2.4	1.3	2.8	0.2	0.4	0.1
196:196 Lymph nodes	259	1.1	2.1	1.5	3.4	1.5	2.3	4.8	3.6	6.2	9	8.4	12.5	15.6	15.8	14.6	19.8	3.6	5.2	0.36
199:199 Unknown primary site	101	0	0.3	0.1	0.1	0	0.4	1.3	1	3.4	2.8	4.2	9.6	10.8	13.4	9.3	17.9	1.4	2.6	0.27

Table 8.3 Incidence rates for cancer cases among Saudi females by age group (/100,000 population), 1996

ICD-O (I)		Tot	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	CIR	ASR	S.E.
ALL SITES		2406	8.2	5	6.9	7.8	13.9	17.3	41.9	55.8	85.7	97.1	138.5	209.9	207.7	246.4	292.8	279	34.1	64.6	1.43
140:140	Lip	3	0	0	0.1	0	0	0	0	0	0	0	0	0	0.9	0	0	1.2	0	0.1	0.05
141:141	Tongue	27	0	0	0	0	0	0	0.5	0.3	2.3	0.5	2.9	3.7	3.7	3.5	1.6	2.4	0.4	0.9	0.17
142:142	Salivary gland	4	0	0	0.1	0.1	0	0	0	0	0	0	0	0	0.9	1.8	0	0	0.1	0.1	0.07
143:143	Gum	9	0	0	0	0	0	0	0.3	0	0	0	0	0.9	0.9	0	4.9	3.6	0.1	0.3	0.09
144:144	Floor of mouth	2	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	1.6	0	0	0.1	0.04
145:145	Other mouth	25	0	0	0	0.1	0.2	0.2	0.3	0.6	0.5	0.5	2.9	1.9	0	5.3	1.6	7.2	0.4	0.7	0.15
146:146	Oropharynx	3	0	0	0	0	0	0	0	0	0	0.5	0.6	0	0	0	1.6	0	0	0.1	0.05
147:147	Nasopharynx	44	0.2	0	0	0.4	0.8	0	1.4	1.2	2.3	1.1	5.3	0.9	0.9	5.3	1.6	3.6	0.6	1.1	0.18
148:148	Hypopharynx	16	0	0	0	0	0	0.2	0.3	0.6	0.9	1.1	1.2	1.9	1.9	3.5	0	0	0.2	0.5	0.13
149:149	Pharynx, NOS	2	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	1.2	0	0	0.03
150:150	Oesophagus	69	0	0	0	0	0	0.2	0.3	0.6	1.4	1.6	5.8	4.7	12.1	12.4	11.5	20.3	1	2.2	0.28
151:151	Stomach	77	0.1	0	0	0	0.2	0.2	0.5	0.3	0.9	2.7	5.8	10.3	9.3	17.7	16.4	15.5	1.1	2.6	0.3
152:152	Small intestine	12	0.1	0	0	0	0	0	0	0	0.5	0.5	0.6	1.9	1.9	1.8	1.6	2.4	0.2	0.4	0.12
153:153	Colon	86	0.1	0	0.1	0.1	0.2	0	1.1	1.2	4.2	5.4	7	10.3	8.4	5.3	19.7	9.5	1.2	2.6	0.29
154:154	Rectum	52	0	0	0	0	0.5	0.4	0	0.9	3.7	2.1	5.3	2.8	5.6	7.1	4.9	8.3	0.7	1.6	0.23
155:155	Liver	96	0.1	0.1	0	0	0	0	0.8	0	1.4	3.2	6.4	15.9	14	10.6	26.3	20.3	1.4	3.1	0.33
156:156	Gallbladder etc.	24	0	0	0	0	0	0	0	0.3	1.4	0	0.6	2.8	2.8	5.3	13.2	2.4	0.3	0.8	0.17
157:157	Pancreas	26	0	0	0	0	0	0	0.3	0	1.1	2.3	5.6	2.8	5.3	6.6	3.6	0.4	0.9	0.18	
158:158	Peritoneum etc.	8	0.1	0	0	0	0	0	0	0	0	0	2.3	0.9	0	0	1.6	1.2	0.1	0.2	0.08
159:159	Digestive organs, NOS	3	0	0	0	0	0	0	0	0	0	0.5	1.2	0	0	0	1.6	0	0.1	0.1	0.06
160:160	Nose, sinuses etc.	5	0	0	0	0	0.2	0	0	0	0	0	0	0.9	0	0	1.8	0	0	0.1	0.07
161:161	Larynx	9	0	0	0	0	0	0	0	0.6	0.5	0	0.6	0	0	1.8	1.6	3.6	0.1	0.3	0.09
162:162	Bronchus, lung	51	0	0.1	0	0	0	0	1.4	0.3	0.5	2.1	4.1	5.6	4.7	7.1	16.4	8.3	0.7	1.6	0.23
163:163	Pleura	1	0	0	0	0	0	0	0	0	0	0	0	0	0.9	0	0	0	0	0	0.04
164:164	Other thoracic organs	11	0.2	0	0.1	0	0.2	0.6	0	0	0	0	0	2.8	0	0	0	0	0.2	0.2	0.07
169:169	Haemato.& retic.sys	182	3.6	1.4	1.5	1.3	1.3	2.1	1.1	3.7	2.3	4.3	4.7	11.2	10.2	7.1	13.2	6	2.6	3.5	0.3
170:170	Bone	37	0.1	0.2	1.1	0.6	0.8	0.2	0	0.9	0.5	1.1	0.6	1.9	0.9	1.8	1.6	0	0.5	0.6	0.13
171:171	Connective tissue	34	0.4	0.1	0.2	0.3	0.5	0.2	0.5	0.6	0.5	2.7	1.2	1.9	0	5.3	0	3.6	0.5	0.8	0.15
173:173	Skin	100	0.1	0.2	0.2	0.1	0.5	0.4	0.5	0.9	4.2	3.8	0.6	11.2	9.3	16	29.6	20.3	1.4	3	0.32
174:174	Female breast	492	0	0	0	0.1	0.8	4.2	13.5	24.1	28.7	32.7	36.8	35.5	42.8	47.9	28	25	7	13.8	0.66
179:179	Uterus	12	0	0	0	0.1	0	0.2	0.3	0.3	0	1.1	1.2	0.9	0	1.8	1.6	1.2	0.2	0.3	0.1
180:180	Cervix uteri	97	0	0	0	0	0.2	0.9	2.2	3.4	7.4	2.7	6.4	7.5	9.3	7.1	9.9	14.3	1.4	2.7	0.29
181:181	Placenta	9	0	0	0	0.3	0	0.6	0	0.6	0.5	0.5	0	0	0	0	0	0	0.1	0.2	0.06
182:182	Corpus uteri	41	0	0	0	0.1	0	0	0.5	0.3	0.9	0	2.3	9.3	7.5	10.6	6.6	3.6	0.6	1.4	0.23
183:183	Ovary etc.	108	0	0.1	0.6	0.9	1.7	0.8	1.1	2.7	4.6	2.1	4.1	12.1	10.2	8.9	11.5	11.9	1.5	2.8	0.29
184:184	Other female genital	11	0	0	0	0	0	0	0.5	0.3	0	0	0	0	0.9	0	3.3	6	0.2	0.3	0.09
188:188	Bladder	26	0	0	0	0	0	0.2	0.3	0.6	0.9	1.1	2.3	2.8	2.8	3.5	3.3	4.8	0.4	0.8	0.16
189:189	Kidney	49	0.9	0.6	0	0	0	0.2	0.8	0.3	1.4	1.6	1.8	5.6	5.6	0	4.9	2.4	0.7	1.1	0.18
190:190	Eye	18	0.6	0.1	0.2	0	0	0	0	0	0	0	0	1.9	0.9	3.5	4.9	0	0.3	0.4	0.12
191:191	Brain	83	1.1	1.3	1.3	0.5	0.3	0.4	1.1	0.9	0.9	2.1	3.5	2.8	2.8	5.3	3.3	3.6	1.2	1.5	0.2
192:192	Other nervous system	1	0	0	0	0	0	0	0	0	0	0	0	0.9	0	0	0	0	0	0	0.04
193:193	Thyroid	192	0	0.1	0.2	0.8	3.3	4.7	9.5	5.5	6.5	9.1	5.8	10.3	12.1	5.3	9.9	13.1	2.7	4.4	0.34
194:194	Other endocrine	5	0.2	0.2	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0.02
195:195	Ill defined sites	13	0.1	0	0	0	0.2	0	0.3	0	0.9	0	0	0.9	0.9	1.8	4.9	2.4	0.2	0.4	0.11
196:196	Lymph nodes	139	0.2	0.7	1	1.8	1.5	0.4	2.2	2.1	2.8	3.2	5.8	11.2	8.4	14.2	6.6	28.6	2	3.3	0.31
199:199	Unknown primary site	92	0.2	0	0.2	0.1	0.3	0.2	0.5	1.5	2.3	5.9	5.8	8.4	11.2	10.6	14.8	16.7	1.3	2.7	0.3

Table 10.1 Age distribution of cancer cases for all non-Saudis 1994-1996

ICD-O (1)	Unk	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Tot	%
ALL SITES	0	179	148	108	146	174	297	605	768	870	803	789	594	531	321	227	238	6798	100
140:140 Lip	0	0	0	0	0	0	1	0	0	0	2	1	0	0	1	2	1	8	0.1
141:141 Tongue	0	0	0	0	1	1	0	3	12	16	9	9	10	10	6	3	4	84	1.2
142:142 Salivary gland	0	0	0	5	0	1	4	3	6	4	1	8	2	3	2	0	0	39	0.6
143:143 Gum	0	0	0	0	0	0	0	0	0	2	2	0	2	0	1	0	1	8	0.1
144:144 Floor of mouth	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	0	4	0.0
145:145 Other mouth	0	0	0	1	0	0	0	2	3	8	2	2	3	2	4	2	2	31	0.5
146:146 Oropharynx	0	0	0	0	1	0	0	3	1	3	4	2	6	2	0	1	1	24	0.4
147:147 Nasopharynx	0	0	0	4	11	5	4	16	14	23	21	7	11	12	5	10	4	147	2.1
148:148 Hypopharynx	0	0	1	0	1	1	3	2	3	1	2	4	4	7	2	3	3	37	0.5
149:149 Pharynx, NOS	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	3	0.0
150:150 Oesophagus	0	0	0	0	0	0	1	4	9	9	14	10	19	20	12	6	14	118	1.7
151:151 Stomach	0	2	0	1	0	3	2	14	17	32	30	25	23	23	11	7	9	199	2.9
152:152 Small intestine	0	1	2	1	1	0	4	3	3	1	1	5	6	0	1	1	1	31	0.4
153:153 Colon	0	2	0	1	1	7	12	35	34	29	32	35	20	15	11	8	11	253	3.8
154:154 Rectum	0	0	0	0	5	6	6	12	21	22	20	29	17	11	6	13	6	174	2.6
155:155 Liver	0	2	0	4	0	2	5	13	22	30	33	30	31	39	15	14	16	256	3.7
156:156 Gallbladder etc.	0	0	0	0	0	1	0	4	10	11	4	5	2	7	8	2	2	56	0.8
157:157 Pancreas	0	0	0	0	0	0	1	2	6	6	10	13	9	15	7	1	3	73	1.1
158:158 Peritoneum etc.	0	1	0	0	0	1	0	1	0	5	1	0	1	1	1	0	1	13	0.2
159:159 Digestive organs, NOS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
160:160 Nose, sinuses etc.	0	1	2	0	1	2	0	1	2	5	1	4	4	1	2	1	1	28	0.4
161:161 Larynx	0	0	0	0	1	1	2	2	7	15	13	17	24	16	9	8	10	125	1.8
162:162 Bronchus, lung	0	2	1	1	2	2	3	11	26	31	38	59	47	52	39	17	13	344	5.0
163:163 Pleura	0	0	0	0	0	0	0	1	1	4	2	1	3	0	4	1	0	17	0.2
164:164 Other thoracic organs	0	0	3	1	1	0	3	1	1	2	3	3	1	1	0	0	1	21	0.3
169:169 Haemato. & retic. sys	0	55	44	23	16	29	29	52	50	51	38	37	23	30	13	15	12	517	7.5
170:170 Bone	0	6	7	12	27	9	7	9	18	6	6	5	3	0	1	0	1	117	1.8
171:171 Connective tissue	0	11	6	6	9	8	7	14	13	6	15	11	9	8	2	0	1	126	1.8
173:173 Skin	0	1	1	1	1	6	12	26	36	56	73	70	46	31	11	13	11	395	5.8
174:174 Female breast	0	1	0	0	1	3	39	113	191	226	137	104	63	48	22	11	14	973	14.3
175:175 Male breast	0	0	0	0	1	1	0	7	5	3	9	6	1	2	4	1	2	42	0.6
179:179 Uterus	0	1	0	0	0	2	0	0	2	3	3	2	2	0	1	1	0	17	0.3
180:180 Cervix uteri	0	0	0	0	2	1	10	37	36	47	32	33	21	19	9	9	9	265	3.9
181:181 Placenta	0	0	0	0	0	3	1	7	0	2	1	1	0	0	0	0	0	15	0.2
182:182 Corpus uteri	0	0	0	0	1	0	0	2	6	6	11	13	13	3	7	3	8	73	1.0
183:183 Ovary etc.	0	1	0	0	4	8	12	14	17	20	24	19	12	6	5	2	4	148	2.2
184:184 Other female genital	0	0	1	0	0	0	0	2	2	1	1	1	1	0	0	0	1	10	0.1
185:185 Prostate	0	0	0	0	0	0	0	0	2	3	7	16	28	21	18	12	17	124	1.8
186:186 Testis	0	2	0	1	8	3	7	14	6	7	7	3	0	1	1	2	0	62	0.9
187:187 Other male genital	0	0	0	0	0	0	0	1	4	1	1	0	0	1	0	0	0	8	0.1
188:188 Bladder	0	2	1	1	1	2	6	10	26	22	33	54	32	31	29	20	22	292	4.3
189:189 Kidney	0	12	2	2	1	1	2	2	9	11	16	15	12	19	3	6	2	115	1.7
190:190 Eye	0	27	1	1	0	0	2	2	2	1	3	2	2	9	1	3	2	58	0.9
191:191 Brain	0	16	24	16	11	13	26	20	17	22	9	13	11	9	5	3	6	221	3.2
192:192 Other nervous system	0	3	0	1	2	1	1	3	1	1	1	1	2	0	0	0	1	18	0.2
193:193 Thyroid	0	0	0	0	4	14	27	48	40	31	27	31	9	12	1	2	1	247	3.6
194:194 Other endocrine	0	5	4	2	1	0	1	2	0	1	1	0	0	0	0	0	0	17	0.2
195:195 Ill defined sites	0	3	1	4	2	5	2	6	5	2	6	6	5	5	1	2	2	57	0.9
196:196 Lymph nodes	0	17	43	15	24	27	40	55	60	46	58	40	31	15	20	8	7	506	7.4
199:199 Unknown primary site	0	5	3	4	4	5	15	26	22	34	38	35	23	24	19	13	11	281	4.1

Table 10.2 Age distribution of cancer cases for all non-Saudi males 1994-1996

	Unk.	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75+	Tot.	%
ICD-O (1)																			
ALL SITES	0	103	102	62	76	98	146	301	367	429	479	461	373	320	198	139	141	3795	100
140:140 Lip	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	1	1	5	0.1
141:141 Tongue	0	0	0	0	1	0	0	1	8	12	7	7	6	6	4	1	4	57	1.5
142:142 Salivary gland	0	0	0	1	0	1	3	3	4	4	1	5	2	3	1	0	0	28	0.7
143:143 Gum	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	3	0.1
144:144 Floor of mouth	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	4	0.1
145:145 Other mouth	0	0	0	1	0	0	0	2	2	7	1	2	1	1	2	2	2	23	0.6
146:146 Oropharynx	0	0	0	0	1	0	0	2	1	3	2	0	4	2	0	1	0	16	0.4
147:147 Nasopharynx	0	0	0	1	5	4	2	13	12	18	19	6	9	9	3	8	3	112	3.0
148:148 Hypopharynx	0	0	1	0	0	1	2	2	1	0	0	2	2	6	1	2	3	23	0.6
149:149 Pharynx, NOS	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	2	0	0.1
150:150 Oesophagus	0	0	0	0	0	0	0	2	5	5	10	8	7	10	7	4	9	67	1.8
151:151 Stomach	0	1	0	1	0	1	2	7	10	26	24	20	17	14	8	4	8	143	3.7
152:152 Small intestine	0	1	2	1	1	0	2	3	2	0	0	3	6	0	1	0	1	23	0.6
153:153 Colon	0	2	0	1	1	5	11	29	25	19	27	27	16	10	7	5	5	190	5.2
154:154 Rectum	0	0	0	0	4	4	3	7	13	13	17	19	16	9	3	10	3	121	3.2
155:155 Liver	0	1	0	4	0	0	3	12	19	26	27	24	26	32	14	8	14	210	5.5
156:156 Gallbladder etc.	0	0	0	0	0	1	0	2	5	6	3	3	1	3	4	1	0	29	0.7
157:157 Pancreas	0	0	0	0	0	0	0	1	5	6	8	12	8	11	3	0	2	56	1.4
158:158 Peritoneum etc.	0	0	0	0	0	1	0	0	0	4	0	0	1	1	1	0	1	9	0.3
159:159 Digestive organs,NOS	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	0	0	1	0.0
160:160 Nose, sinuses etc.	0	0	1	0	0	2	0	1	2	4	1	1	3	1	2	1	0	19	0.5
161:161 Larynx	0	0	0	0	1	1	2	2	7	14	13	17	21	13	9	7	6	113	3.0
162:162 Bronchus, lung	0	2	0	0	0	2	1	7	24	27	35	54	38	48	30	9	6	283	7.4
163:163 Pleura	0	0	0	0	0	0	0	1	1	4	2	1	3	0	0	0	0	12	0.3
164:164 Other thoracic organs	0	0	2	0	1	0	2	0	0	2	3	1	1	0	0	0	1	13	0.3
169:169 Haemato. & retic. sys	0	36	29	15	7	19	23	39	44	44	18	25	16	17	10	11	8	361	9.5
170:170 Bone	0	2	3	7	15	8	6	7	10	3	6	4	3	0	1	0	1	76	2.1
171:171 Connective tissue	0	2	2	4	3	4	5	11	10	5	11	7	4	2	1	0	1	72	1.9
173:173 Skin	0	0	0	1	1	4	6	18	23	40	48	50	36	25	7	10	7	276	7.2
175:175 Male breast	0	0	0	0	1	1	0	7	5	3	9	6	1	2	4	1	2	42	1.1
185:185 Prostate	0	0	0	0	0	0	0	2	3	7	16	28	21	18	12	17	124	3.3	
186:186 Testis	0	2	0	1	8	3	7	14	6	7	7	3	0	1	1	2	0	62	1.6
187:187 Other male genital	0	0	0	0	0	0	0	1	4	1	1	0	0	1	0	0	0	8	0.2
188:188 Bladder	0	0	0	1	1	2	4	8	24	21	31	49	29	26	26	16	17	255	6.7
189:189 Kidney	0	7	1	1	0	1	1	2	6	8	13	14	9	11	2	5	2	83	2.2
190:190 Eye	0	15	0	0	0	0	2	2	2	1	2	2	0	4	0	2	1	33	0.8
191:191 Brain	0	8	12	10	7	4	19	14	12	21	8	7	8	6	4	2	5	147	3.8
192:192 Other nervous system	0	2	0	0	2	1	0	1	0	0	1	1	2	0	0	0	1	11	0.3
193:193 Thyroid	0	0	0	0	1	4	5	17	16	15	23	13	7	2	1	1	0	105	2.8
194:194 Other endocrine	0	3	4	0	1	0	0	0	0	1	1	0	0	0	0	0	0	10	0.3
195:195 Ill defined sites	0	2	1	3	2	3	0	6	2	1	5	3	3	2	1	0	2	36	1.0
196:196 Lymph nodes	0	12	41	5	10	19	26	41	44	34	52	25	21	17	15	13	7	353	9.3
199:199 Unknown primary site	0	5	2	4	2	2	9	16	11	20	32	21	17	15	13	7	3	179	4.8

Table 10.3 Age distribution of cancer cases for all non-Saudi females 1994-1996

ICD-O (1)		0- 5- 10- 15- 20- 25- 30- 35- 40- 45- 50- 55- 60- 65- 70- 75+ Tot. %																		
Unk.	ALL SITES	0	76	46	70	76	151	304	401	441	324	328	221	211	123	88	97	3003	100	
140:140	Lip	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	3	0.1	
141:141	Tongue	0	0	0	0	1	0	2	4	4	2	2	4	4	2	2	0	27	0.9	
142:142	Salivary gland	0	0	0	4	0	1	0	2	0	0	3	0	0	1	0	0	11	0.4	
143:143	Gum	0	0	0	0	0	0	0	0	2	1	0	1	0	1	0	0	5	0.2	
145:145	Other mouth	0	0	0	0	0	0	0	1	1	1	0	2	1	2	0	0	8	0.3	
146:146	Oropharynx	0	0	0	0	0	0	1	0	0	2	2	2	0	0	0	1	8	0.3	
147:147	Nasopharynx	0	0	0	3	6	1	2	3	2	5	2	1	2	3	2	1	35	1.2	
148:148	Hypopharynx	0	0	0	0	1	0	1	0	2	1	2	2	1	1	1	0	14	0.4	
149:149	Pharynx, NOS	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0.0	
150:150	Oesophagus	0	0	0	0	0	1	2	4	4	4	2	12	10	5	2	5	51	1.7	
151:151	Stomach	0	1	0	0	0	2	0	7	6	6	5	6	9	3	3	1	56	1.9	
152:152	Small intestine	0	0	0	0	0	2	0	1	1	1	2	0	0	0	1	0	8	0.3	
153:153	Colon	0	0	0	0	0	2	1	6	9	10	5	8	4	5	4	3	63	2.2	
154:154	Rectum	0	0	0	0	1	2	3	5	8	9	3	10	1	2	3	3	53	1.8	
155:155	Liver	0	1	0	0	0	2	2	1	3	4	6	6	5	7	1	6	2	46	1.5
156:156	Gallbladder etc.	0	0	0	0	0	0	2	5	5	1	2	1	4	4	1	2	27	0.9	
157:157	Pancreas	0	0	0	0	0	1	1	1	0	2	1	1	1	4	4	1	17	0.5	
158:158	Peritoneum etc.	0	1	0	0	0	0	1	0	1	1	0	0	0	0	0	0	4	0.1	
160:160	Nose, sinuses etc.	0	1	1	0	1	0	0	0	1	0	3	1	0	0	0	1	9	0.3	
161:161	Larynx	0	0	0	0	0	0	0	0	1	0	0	3	3	0	1	4	12	0.4	
162:162	Bronchus, lung	0	0	1	1	2	0	2	4	2	4	3	5	9	4	9	8	7	61	2.0
163:163	Pleura	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	5	0.2	
164:164	Other thoracic organs	0	0	1	1	0	1	1	1	0	0	2	0	1	0	0	0	8	0.3	
169:169	Haemato. & retic. sys	0	19	15	8	9	10	6	13	6	7	20	12	7	13	3	4	4	156	5.1
170:170	Bone	0	4	4	5	12	1	2	8	3	0	1	0	0	0	0	0	41	1.4	
171:171	Connective tissue	0	9	4	2	6	4	2	3	3	1	4	4	5	6	1	0	54	1.8	
173:173	Skin	0	1	1	0	0	2	6	8	13	16	25	20	10	6	4	3	4	119	4.0
174:174	Female breast	0	1	0	0	1	3	39	113	191	226	137	104	63	48	22	11	14	973	32.3
179:179	Uterus	0	1	0	0	0	2	0	2	3	3	2	2	0	1	1	0	17	0.6	
180:180	Cervix uteri	0	0	0	0	2	1	10	37	36	47	32	33	21	19	9	9	9	265	8.9
181:181	Placenta	0	0	0	0	0	3	1	7	0	2	1	1	0	0	0	0	15	0.5	
182:182	Corpus uteri	0	0	0	0	1	0	0	2	6	6	11	13	13	3	7	3	8	73	2.4
183:183	Ovary etc.	0	1	0	0	4	8	12	14	17	20	24	19	12	6	5	2	4	148	5.0
184:184	Other female genital	0	0	1	0	0	0	2	2	1	1	1	1	0	0	0	1	10	0.3	
188:188	Bladder	0	2	1	0	0	0	2	2	1	2	5	3	5	3	4	5	37	1.3	
189:189	Kidney	0	5	1	1	1	0	1	0	3	3	1	3	8	1	1	0	32	1.1	
190:190	Eye	0	12	1	1	0	0	0	0	0	1	0	2	5	1	1	1	25	0.8	
191:191	Brain	0	8	12	6	4	9	7	6	5	1	1	6	3	3	1	1	74	2.4	
192:192	Other nervous system	0	1	0	1	0	1	2	1	1	0	0	0	0	0	0	0	7	0.2	
193:193	Thyroid	0	0	0	0	3	10	22	31	24	16	4	18	2	10	0	1	1	142	4.7
194:194	Other endocrine	0	2	0	2	0	0	1	2	0	0	0	0	0	0	0	0	7	0.2	
195:195	Ill defined sites	0	1	0	1	0	2	2	0	3	1	1	3	2	3	0	2	0	21	0.7
196:196	Lymph nodes	0	5	2	10	14	8	14	14	16	12	6	15	10	9	12	3	3	153	5.1
199:199	Unknown primary site	0	0	1	0	2	3	6	10	11	14	6	14	6	9	6	6	8	102	3.3

PART IV
APPENDIX

GLOSSARY

ICD-9

The World Health Organization's International Classification of Disease. The Ninth Revision is used in this report.

ICD-O

The World Health Organization's International Classification of Disease for Oncology.

Metastasis

It is the distant spread of cancer from its original site to other organs of the body, including lymph nodes, skeletal and/or visceral organs.

Cancer Stage

Cancer stage indicates the size and spread of a cancer at a particular point in time. Early stage cancers confined to their original site are more successfully eradicated than cancers that have spread to other parts of the body. Stage at diagnosis is an important prognostic factor in most cancers. The later stage at the diagnosis, the less likely is the cure.

Cancer Registration

It is a method of cancer surveillance through the collection of information and registration of all new cases of cancer occurring in a defined population.

Incidence Rate

It is defined as the rate at which new events occur in a population. It is calculated as the number of new cases of a disease arising in a population over a defined time period, divided by the population at risk of developing that disease.

Crude Incidence Rate

The crude incidence rate for a cancer site is the total number of cases registered as a proportion of the total population. It denotes the approximate number of cases occurring in each 100,000 individuals. All rates are, thus, expressed as per 100,000 population.

Cancer rates vary greatly with age and the crude rate is strongly influenced by the demographic structure of the population. Hence, if the population structure changes over time the crude rate over that period will not be directly comparable.

It is not appropriate to compare crude rates across geographical areas or cancer registries with different population age structures. Therefore, in order to assess time-trends in registration data or compare incidence across geographical areas or between registries it is obligatory to first standardize the rates with respect to age.

Prevalence

This reflects the total number of patients with a disease in a specified population at a specified time, including both new and old cases.

Relative Frequency

This statistic is defined as the number of specific cancer cases registered relative to the total number of all cancers. It is expressed as a percentage.

Rank

This measure reflects the importance of a specific cancer site relative to other sites, in terms of the number of registrations. Ranking illustrates the most and least frequent cancer sites in a population according to their frequency.

Average age specific incidence rate (AIR)

The number of cancer cases occurring during a specific period in a population of a specific age and sex group, divided by the number of mid-year population of that age and sex group.

Age-Standardized Rate (ASR)

Age-Standardized Rate (ASR) is a summary measure of a rate that a population would have if it had a standard age structure.

Age has such a powerful influence on the risk of cancer. Thus, standardization is necessary when comparing several populations that differ with respect to age structure.

The most frequently used standard population is the World Standard Population (see below). The calculated incidence or mortality is known as the World Standardized Incidence (or Mortality) Rate. Both rates are expressed per 100,000 population.

The World Standard Population:

The World Standard Population (Doll et al., 1966)

	Population	Age Class	Population
Age Class			
0-4	12 000	45-49	6000
5-9	10 000	50-54	5000
10-14	9000	55-59	4000
15-19	9000	60-64	4000
20-24	8000	65-69	3000
25-29	8000	70-74	2000
30-34	6000	75-79	1000
35-39	6000	80-84	500
40-44	6000	85+	500
		Total	100.000

REPORTING FORM

☐ UPDATE

NATIONAL CANCER REGISTRY
MINISTRY OF HEALTH
KINGDOM OF SAUDI ARABIA
CANCER REGISTRATION REPORT

1. REPORTING HOSPITAL

2. DATE FORM COMPLETED / /

3. FORM COMPLETED BY

PATIENT IDENTIFICATION

NAME	4. FIRST	5. FATHER	6. GRANDFATHER	7. FAMILY
PATIENT				
8. PATIENT'S MOTHER				

9. COUNTRY OF BIRTH

10.

11. DATE OF BIRTH / /

12. CITY OF BIRTH

13.

PERMANENT RESIDENCE
MAILING ADDRESS
CITY/ZIP CODE/COUNTRY

14.
15.

16. TEL. NO. 1

CURRENT ADDRESS
PO BOX
CITY/ZIP CODE/COUNTRY

17.
18.

19. TEL. NO. 2

20. PT.'S MED. RECORD NO.

21. SAUDI I.D. NO.

22. SEX ☐
1 - Male
2 - Female
9 - Unknown

23. NATIONALITY ☐
1 - Saudi
2 - Non-Saudi
9 - Unknown

24. RELIGION ☐
1 - Muslim
2 - Non-Muslim
9 - Unknown

25. REFERRAL HOSPITAL
26.

27. CITY/COUNTRY
31.

28. MEDICAL RECORD NO.
32.

33. Code 34. SITE

CANCER IDENTIFICATION

35. Code 36. HISTOLOGY/GRADE

37. DATE OF ORIGINAL DIAGNOSIS / /

39. PREVIOUS OTHER TYPE OF CANCER ☐
1 - Yes
2 - No
9 - Unknown

38. LATERALITY ☐
0 - Not a paired site, unknown or ill- defined site
1 - Right : Origin of primary
2 - Left : Origin of primary
3 - Only one side involved; right or left unspecified
4 - Bilateral involvement, lateral origin unknown
9 - Paired site, laterality unknown

40. EXTENT OF DISEASE (STAGE) AT DIAGNOSIS ☐
0 - In situ
1 - Localized
2 - Regional by direct extension
3 - Regional to lymph nodes
4 - Regional (both 2 and 3)
5 - Regional, NOS
7 - Distant metastases/systemic disease
9 - Unstaged, unknown or unspecified

41. METHOD OF DIAGNOSIS ☐
1 - Microscopically - attach report or
2 - Clinically - attach report or
9 - Unknown - attach report

42. TYPE OF ADMISSION ☐
1 - Inpatient
2 - Outpatient
9 - Unknown

43. DATE FIRST SEEN AT THIS HOSPITAL / /

44. DISCHARGE/DEATH DATE / /

45. DISCHARGE STATUS ☐
1 - Alive
2 - Dead
9 - Unknown

46. NCR Office Code

DATA REQUEST FORM

Request for data from the National Cancer Registry

All requests should be submitted to the attention of the Chairman, Board of Directors, National Cancer Registry, MBC 64, PO Box 3354, Riyadh, 11211, Saudi Arabia. Fax: 966 1 4423941

Name: _____

Date Submitted: _____

Department : _____

Hospital: _____

Telephone number: _____

Information Requested:

(Specify patient population, Time period, Year/s, Anatomic site/Histology, Staging information, Region, etc.)

Purpose of Request:

(Specify presentation at conference/meeting/publication, clinical /epidemiological study, personal information, etc.)

Collaborators and Co-authors:

Requesters affirmation statement:

I hereby, the requester of the above data affirm that the data given to me by the NCR will be treated with utmost confidentiality in relation to patient's identity. I also affirm that the data given to me will not be presented or published by me or any of my collaborators as an original work but rather can be cited in my presentation and / or publication with acknowledgment to the NCR

Requester signature: _____

Date: _____

For Official use only:

Request: Approved _____

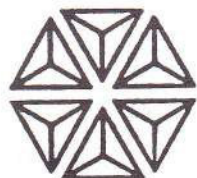
Denied _____

Chairman NCR Board of Directors Signature: _____

Dr. Nasser Al Hamdan

Date: _____

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ADDRESS

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