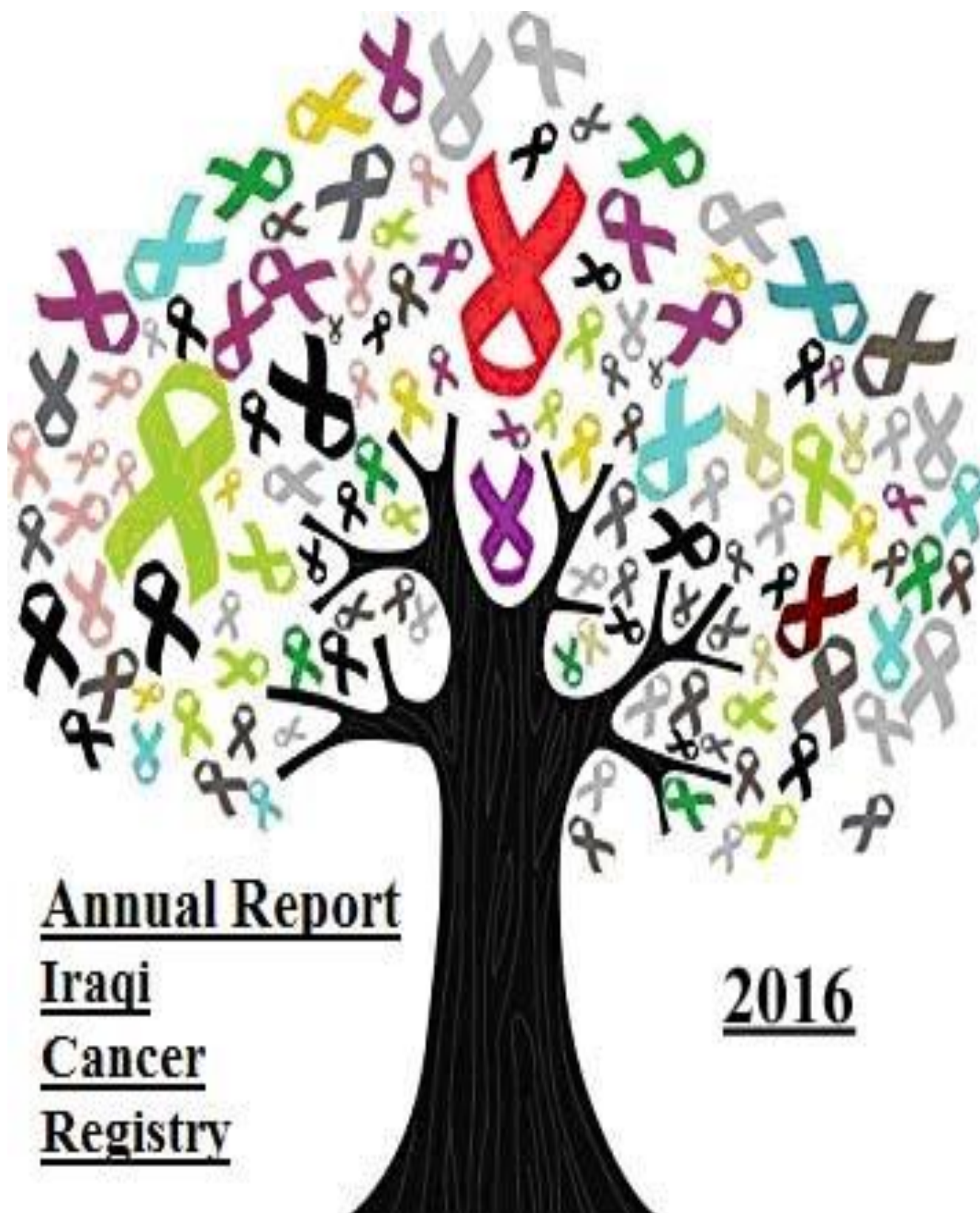




Republic of Iraq
Ministry of Health\Environment
Iraqi Cancer Board



Annual Report
Iraqi
Cancer
Registry

2016

Republic of Iraq
Ministry of Health\Environment
Iraqi Cancer Board

Annual Report
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The preface of Minister of Health



Tremendous improvements have been made in the understanding and therapies of cancer over the last two decades. However, this disease still remains one of the major causes of morbidity and mortality in our country. It's social, economic and health burden is on the increases. This increment is in accordance with the increasing average of life expectancy of our population. It adversely affects the individual s functional performance leading to a significant regress in the productive and functional capabilities of the society as a whole. For decades the ministry of health in Iraq has exerted great efforts to comfort cancer so as to minimize its risk and mitigate its detrimental effects by underpinning the screening and early detection programs, encouraging preventative measures ,rising awareness among people and providing cancer care services via a comprehensive cancer centers fully equipped with diagnostic and therapeutic modalities .

Despite the challenging time that our beloved country Iraq has been through, facing the terrorism of ISIS, the ministry of health has focused on putting cancer problems as a priority. This was achieved by recruiting all the scientific, financial and even emotional supports in order to maintain and preserve the achievements were made in the past few years in this field.

Cancer registration is considered as the cornerstone for setting our cancer control plan and programs. Our cancer registry program includes electronic registration of data in all cancer registry units all over the country, which are connected with the central registration section at the ministry of health where all data are processed and issued as a final annual report. This report contains comprehensive and accurate data necessary for the setting of cancer control plan. It is the essential reference for us in the estimation of the need of labor forces, medical, technical equipment and cancer medications needed to cover all parts of the country. Many cancer centers in Baghdad and provinces have been successfully established depending on the data collected by our cancer registry program.

On the other hand, the importance of cancer registry as a resource for scientific studies and researches is worth mentioning. These researches are devoted to enhance our future cancer control plan hence better cancer prevention, screening and care in Iraq.

Last but not least, it would be worthy to appreciate all those sincere efforts exerted in the preparation of this annual report, and Allah is All the Success Giver.



Minister of health
Doctor Adela Hmood Hussein
Head Iraqi Cancer Board

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We would like to express our deepest thanks to the staff of hospitals, pathology laboratories, clinics, and cancer control units in each health directorates for their effort of collecting and entering of data.

*A special word of gratitude we should give to
WHO Office in Iraq
for their ongoing technical support.*

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Summary:

Iraqi Cancer Registry Annual Report provides information about cancer (new cases of cancer and mortality). The data are collected from hospitals and laboratories (public and private) in all directorates of health in Iraq by CanReg 4 program.

The total number of new cases of cancer during the year 2016 was 25,556 with male to female ratio 0.7:1. The most affected age group was 70 +years, and the incidence increased with age. The highest incidence for male and female was recorded in Kerbala province (96.62/100,000 male population & 123.02/100,000 female population), while the lowest incidence for male and female was reported in Nineveh province (14.65/100,000 male population & 19.82/100,000 female population).

The top ten cancers in general were breast cancer (19.55%), bronchus & lung (8.31%), leukemia (6.48%), colorectal (5.89%), urinary bladder (5.55%), brain & other central nervous system (CNS) (5.01%), Non-Hodgkin lymphomas (4.68%), thyroid gland (4.39%), skin (3.64%), and prostate (3.10%).

The top ten cancers in male were bronchus & lung (13.27%), urinary bladder (9.46%), leukemia (8.56%), Prostate (7.07%), colorectal (6.79%), brain & other central nervous system (CNS) (6.11%), Non-Hodgkin lymphomas (5.88%), skin (4.48%), stomach (3.75%), and pancreas (3.03%). The highest incidence of cancer in males was bronchus & lung cancer (7.76/100,000 males population), while the lowest incidence of cancer was pancreas cancer (1.77/100,000 males population), the trend incidence of the all top ten cancers in male decreased for the last 6 years (2011-2016).

The top ten cancers in female were breast (34.27%), thyroid gland (6.02%), colorectal (5.18%), leukemia (4.87%), bronchus & lung (4.44%), brain & other central nervous system (CNS) (4.16%), ovary (3.98%), Non-Hodgkin lymphomas (3.75%), skin (2.98%), and urinary bladder (2.51%). The highest incidence of cancer in females was breast cancer (26.26/100,000 females population), while the lowest incidence of cancer was urinary bladder cancer (1.92/100,000 females population). The trend incidence of the all top ten cancers in female decreased for the last 6 years (2011-2016), except for the thyroid gland cancer the trend incidence increased.

The total number of new cases of cancer in children (0-14 years) was 1,511 out of the 25,556 (total number of new cases of cancer of all age group), with male to female ratio 1.3:1. The highest incidence of cancer in children was leukemia (3.07/100,000 children 0-14 year's populations). The highest Percentage of cases was reported in Baghdad province (25.35%) and the lowest reported in Salah Al-Deen province (1.85%).

The total number of cancer mortality during the year 2016 was 7,568. About equal male to female ratio. The highest incidence of cancer mortality in male was bronchus & lung cancer (4.45/100,000 male populations), while the highest incidence of cancer mortality in female was breast cancer (4.79/100,000 female populations). According to the provinces the highest incidence of cancer mortality in male was recorded in Karbala province (40.45/100,000 male populations) and the lowest was in Nineveh province (0.58/100.000 male populations). While the highest incidence of cancer mortality in

female was recorded in Karbala province (40.34/100,000 female populations) and the lowest was in Nineveh province (0.55/100.000 female populations).

The total number of cases of cancer among Non-Iraqis during the year 2016 was 74, the most affected age group in male was 70 years and more, while most affected age group in female were 30-34, 40-44, and 50-54 years. Male to female ratio were 1:05. The highest percentage of cancer in male was colorectal cancer (23.8%) followed by lung cancer (15.8%), while in female was breast cancer (50%) followed by Colorectal cancer (16.6%). The total number of cancer mortality among Non-Iraqis was 3 females only. The highest percentage of cases in male was reported in Duhok province (25.6%), while the highest percentage of cases in female was reported in Erbil province (28.4%).

Introduction:

Globally cancer is one of the leading causes of morbidity and mortality worldwide, it's the second leading cause of death, and was responsible for 8.8 million deaths in 2015. The most common causes of cancer death are cancers of: lung, liver, colorectal, stomach, and breast. Globally, nearly 1 in 6 deaths is due to cancer. Approximately 70% of deaths from cancer occur in low- and middle-income countries. Around one third of deaths from cancer are due to the 5 leading behavioral and dietary risks: high body mass index, low fruit and vegetable intake, lack of physical activity, tobacco use, and alcohol use. Between 30–50% of cancers can currently be prevented by avoiding risk factors and implementing existing evidence-based prevention strategies. The cancer burden can also be reduced through early detection of cancer and management of patients who develop cancer. Many cancers have a high chance of cure if diagnosed early and treated adequately ^[1].

In Eastern Mediterranean Region, the burden of cancer is predicted to double by 2030. The region, like much of the world, is experiencing an epidemiological transition from communicable diseases to Non-communicable diseases such as cardiovascular diseases, diabetes and cancer ^[2]. Cancer is one of the four major killers in the region and results in nearly 400,000 deaths every year. Notably, the number of cases is projected to increase dramatically over the next 15 years, with the Eastern Mediterranean Region expected to have the highest estimated increase in cancer burden of all six World Health Organization regions. Furthermore, survival rates in the Eastern Mediterranean Region are lower than in Europe and in the Americas, because patients usually present at a late stage when cancer is likely to be incurable. Estimates from the International Agency for Research on Cancer (IARC) indicate around 293,000 newly diagnosed cancer cases among women in the EMR in 2012, and a total of 176,000 women died of the disease. In the same year, the estimated numbers of cancer cases and deaths in men were 263,000 and 191,000 respectively. The five most common sites of cancer in men are lung, urinary bladder, liver, prostate and colorectal. Among women, breast cancer accounted for almost a third of all cancers followed by cervix and colorectal cancer. In 2012, breast cancer was the leading cause of cancer mortality (42,000 deaths) in the Region, followed by lung cancer (29,000 deaths) ^[3].

Global trends suggest that the burden of cancer is increasing in the Eastern Mediterranean Region, Table No.; (1)

Table No.; (1) Top 20 Leading Cause of Death in the Eastern Mediterranean Region,
Estimated Number, 2015 - 2030 ^[4]

Rank	2015	Rank	2030
1	Ischemic heart disease	1	Ischemic heart disease
2	Stroke	2	Stroke
3	Lower respiratory infection	3	Chronic obstructive pulmonary disease
4	Chronic obstructive pulmonary disease	4	Lower respiratory infection
5	Diarrheal disease	5	Diarrheal disease
6	HIV/AIDS	6	Trachea, bronchus, lung cancers
7	Trachea, bronchus, lung cancers	7	Road injury
8	Lower respiratory infection	8	HIV/AIDS
9	Road injury	9	Diarrheal disease
10	Hypertensive heart disease	10	Hypertensive heart disease
11	Preterm birth complications	11	Cirrhosis of the liver
12	Cirrhosis of the liver	12	Liver cancer
13	Tuberculosis	13	Kidney diseases
14	Kidney diseases	14	Stomach cancer
15	Self-harm	15	Colon and rectum cancer
16	Liver cancer	16	Self-harm
17	Stomach cancer	17	Fall
18	Birth asphyxia and birth trauma	18	Alzheimer's disease and other dementias
19	Colon and rectum cancer	19	Preterm birth complications
20	Fall	20	Breast cancer

¹Source: WHO/ Cancer. Fact sheet, February 2018:
<http://www.who.int/mediacentre/factsheets/fs297/en/>

² Wahdan MH The epidemiological transition, East Mediterranean Health. J. 1996; 2:8–20.
(http://applications.emro.who.int/emhj/0201/emhj_1996_2_1_8_20.pdf.)

³ International Agency for Research on Cancer (IARC) and World Health Organization.
GLOBOCAN 2012: estimated cancer incidence, mortality and prevalence worldwide in 2012.
Geneva: World Health Organization; 2012
(http://globocan.iarc.fr/Pages/fact_sheets_population.aspx)

⁴Global Health Estimates 2015

In Iraq malignant neoplasm's represented the second leading cause of death (9.05% of the top 10 leading cause of death in 2016), Table No.; (2).

Table No.; (2) Top 10 Leading Cause of Death in Iraq, 2016 ^[5]

Rank	2016
1	Cerebrovascular diseases
2	Malignant neoplasm's
3	Ischemic heart disease
4	Heart failure
5	Hypertensive disease
6	Renal failure
7	Respiratory and cardiovascular disorders specific to the per-natal period
8	Operation of war
9	Transport accidents
10	Diabetes mellitus

⁵Planning and Resources Enhancement Office/Health Statistical Section/Ministry of Health/
Annual Statistical Report 2016

1. Iraqi Cancer Registry:

1.1. Description of ICR: The ICR is responsible for collecting information relating to every new cancer patient in all governorates of Iraq. The cancer registration scheme is primarily concerned with malignant neoplasm's, but some benign, in-situ, uncertain and specified tumors are required to be registered.

1.2. History of ICR: ICR was established in 1974 through close cooperation of Ministry of Health and the Iraqi Cancer Society. It began operation in 1975 and was located in the Central Public Health Laboratory. The forms were prepared with kind help of the International Agency of Research on Cancer in Lyon France.

1.3. Publication of ICR: Since 1976 we published many reports of the ICR [(1976–1985), (1986–1988), (1989–1991), (1992–1994), (1995–1997), (1998–1999)]. We also published the annual report of ICR from 2000 to 2015.

1.4. Source of information: The cancer registry collects data from medical record departments of all hospitals in all governorates of Iraq. All the sources of information for the registry are to be found in the hospital inpatients and outpatients departments and its laboratories. Most cancer cases are admitted or treated at the hospital for radiotherapy and nuclear medicine; these cancer cases are usually found to be previously registered elsewhere.

1.5. Information recorded: The form is distributed to all hospitals (public and private) in all governorates and all cancer patients are registered. The registry staff directly supervises registration in the hospitals, in addition to public and private labs.

1.6. Data collection and techniques of system:

- Data are registered by well trained staff instructed to copy certain items from hospital records, and from radiotherapy and pathology departments by CanReg 4(annex). Registration is also obtained from private laboratories on cases of cancer which have been diagnosed in private hospitals in all governorates.
- The completed forms are sent every 3 months to the central registry at the Ministry of Health where they checked for accuracy and completeness, listing or a card made for the registry for each reportable case.
- The completed records are entered into "Alphabetical Index" to prevent duplication.
- All incoming forms are checked and filled by name, registry number, and the ICD-O code (International Classification of Diseases for Oncology), and histology is coded by the ICD.O System.

1.7. Objectives: The objectives of the ICR are:

- To estimate the incidence rate of cancer.
- To describe the epidemiological characteristic of cancer.
- To define the size of the cancer problem and pattern of cancer occurrence in Iraq for planning, organizing, and monitoring of services for treatment and prevention.
- To carry out epidemiological research.

1.8. Vision: To meet the highest attainable international standards in cancer registration, surveillance and control.

1.9. Mission: To register all cancer cases reported in various health institutions in Iraq and to avail the data and /or information gathered for policy development and support in cancer research, treatment, control ,prevention, and surveillance.

1.10. Difficulties:

- ❖ Complete coverage is found to be extremely difficult.
- ❖ Information forms distributed to medical and health institutions will always include incomplete fields or sections.
- ❖ No follow up for patients is registered.

2. Iraqi Geography and Populations:

2.1. Geography:

The republic of Iraq is located in the south-west of Asia, to the north-east of the Arab Homeland, bounded on the north by Turkey, on the east by Iran, on the south by Arab Gulf, Kuwait & Saudi Arabia, and on the west by Syria, Jordan & Saudi Arabia. The highest the proportion of the length of Iraq's borders with neighboring countries is with Iran about (37.6%) followed by Saudi Arabia about (23.5%).

Iraq has occupied an area of 435,052 square kilometers, the province of Anbar the highest area, reaching to 31.7%, followed by Muthana province by 11.9% of the area of Iraq and Nineveh province reaching 8.6% of the area of Iraq.

The surface section of Iraq consist of deserts which is about 38,7% ,then the plains including (marshes and lakes) include about 30,5% of the area, mountains which is occupied about 21,1% of the area and terrain lands which occupies about 9,7% of the surface area of Iraq (Source: Environmental Statistics in Iraq Report 2009).

2.2. Populations: Below the estimated number of Iraq's population in 2016 by gender and age group (Source: Ministry of planning / Central Statistic Organization), Table No.; (3)

**Table No.; (3) Estimated Number and Percentage of Iraq's Population by
Gender and Age Group, 2016**

Age group	Male		Female		Total	
	N.	%	N.	%	N.	%
0 - 4	2,904,099	15.17	2,747,841	14.66	5,651,940	14.66
5 - 9	2,611,420	13.64	2,463,193	13.14	5,074,613	13.14
10-14	2,321,411	12.13	2,183,956	11.65	4,505,367	11.65
15-19	2,044,803	10.68	1,931,861	10.31	3,976,664	10.31
20-24	1,760,786	9.20	1,678,705	8.96	3,439,491	8.96
25-29	1,520,377	7.94	1,472,156	7.85	2,992,533	7.85
30-34	1,287,418	6.73	1,282,776	6.84	2,570,194	6.84
35-39	1,093,724	5.71	1,111,297	5.93	2,205,021	5.93
40-44	916,889	4.79	950,799	5.07	1,867,688	5.07
45-49	752,069	3.93	792,780	4.23	1,544,849	4.23
50-55	583,402	3.05	627,523	3.35	1,210,925	3.35
55-59	452,768	2.37	493,179	2.63	945,947	2.63
60-64	332,420	1.74	365,638	1.95	698,058	1.95
65-69	236,238	1.23	260,440	1.39	496,678	1.39
70 +	321,540	1.68	382,035	2.04	703,575	2.04
Total	19,139,364	100.00%	18,744,179	100.00%	37,883,543	100.00%

Table No.; (4) Estimated Number of Iraq's Population by Provinces, 2016

Provinces	Population No.
Baghdad	8,095,645
Nineveh	3,702,215
Basra	2,894,591
Sulaimaniya	2,153,288
Thiqar	2,080,188
Babil	2,045,771
Erbil	1,846,646
Anbar	1,755,459
Dyala	1,622,106
Kirkuk	1,588,463
Salah Al-Deen	1,579,662
Najaf	1,462,706
Wasit	1,367,993
Duhok	1,285,040
Diwanyia	1,280,622
Kerbala	1,210,568
Misan	1,106,212
Muthana	806,368
Total	37,883,543

Figure No.; (1) Map of Iraqi Provinces



3. Results:

In this annual report the data have been collected from all provinces, except for the provinces of Nineveh, Anbar, and Selah-Al-Dean due to security situation of the country; however the recorded cases of cancer related to those provinces have come from the records of other provinces.

3.1. Cancer cases 1994-2016:

3.1.1. Distribution of cancer cases for the period from 1994 to 2016:

Table No.; (5) shows the distribution of new cases of cancer in Iraq for the period from 1994 to 2016, which shows that the number of new cases of cancer was increased with time for both gender.

Table No.; (5) Distribution of Cancer Cases by Gender, Iraq, 1994-2016

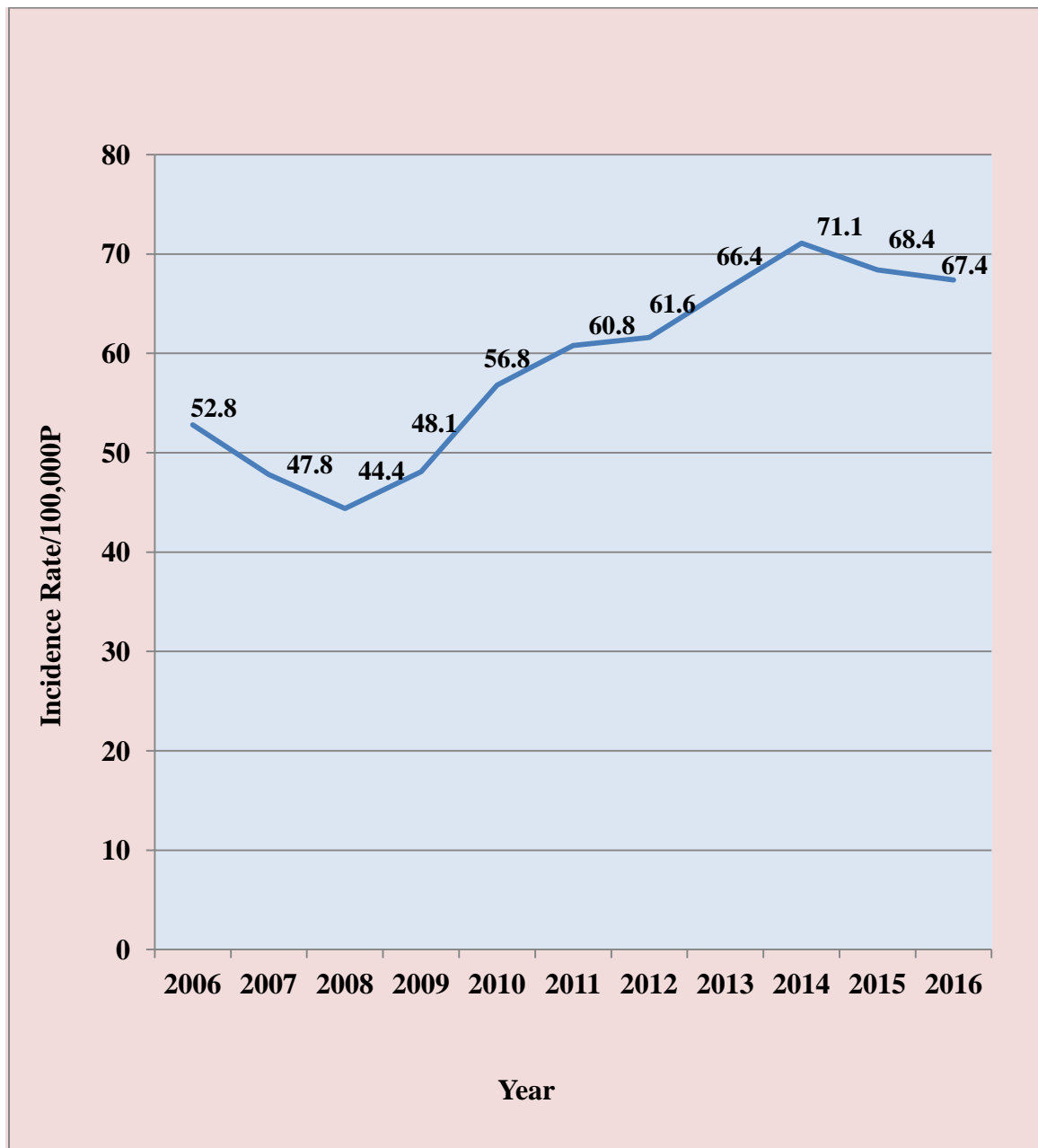
Year	Male		Female		Total	
	No.	%	No.	%	No.	%
1994	4,230	54.4	3,555	45.6	7,785	100%
1995	4,344	54.7	3,604	45.3	7,948	100%
1996	4,466	53.5	3,894	46.5	8,360	100%
1997	4,521	52.7	4,071	47.3	8,592	100%
1998	4,774	52.9	4,259	47.1	9,033	100%
1999	4,556	50.9	4,380	49.1	8,936	100%
2000	5,376	49.4	5,512	50.6	10,888	100%
2001	6,758	50.6	6,574	49.4	13,332	100%
2002	6,964	49.8	7,021	50.2	13,985	100%
2003	5,698	50.6	5,550	49.4	11,248	100%
2004	7,525	51.8	6,995	48.2	14,520	100%
2005	7,505	49.5	7,667	50.5	15,172	100%
2006	7,377	48.5	7,849	51.5	15,226	100%
2007	6,656	46.8	7,557	53.2	14,213	100%
2008	6,589	46.5	7,591	53.5	14,180	100%
2009	7,201	47.3	8,050	52.7	15,251	100%
2010	8,544	46.3	9,938	53.7	18,482	100%
2011	9,352	46.2	10,926	53.8	20,278	100%
2012	9,268	43.9	11,833	56.1	21,101	100%
2013	10,568	45.4	12,740	54.6	23,308	100%
2014	11,411	44.5	14,187	55.5	25,598	100%
2015	11,205	44.4	14,064	55.6	25,269	100%
2016	11,194	43.8	14,362	56.2	25,556	100%

From 1995 till 2004 without Kurdistan region (Erbil, Duhok, and Sulaimaniya provinces)

3.1.2. Trend of incidence rate of cases of cancer 2006-2016:

Figure No.; (2) shows the trend incidence rate of new cases of cancer in Iraq for the last 11 years, which shows that the trend increased from 2006 to 2016.

Figure No.; (2) Trend Incidence Rate (Per 100,000Population) of New Cases of Cancer, Iraq, 2006 – 2016



3.2. Cancer cases in 2016:

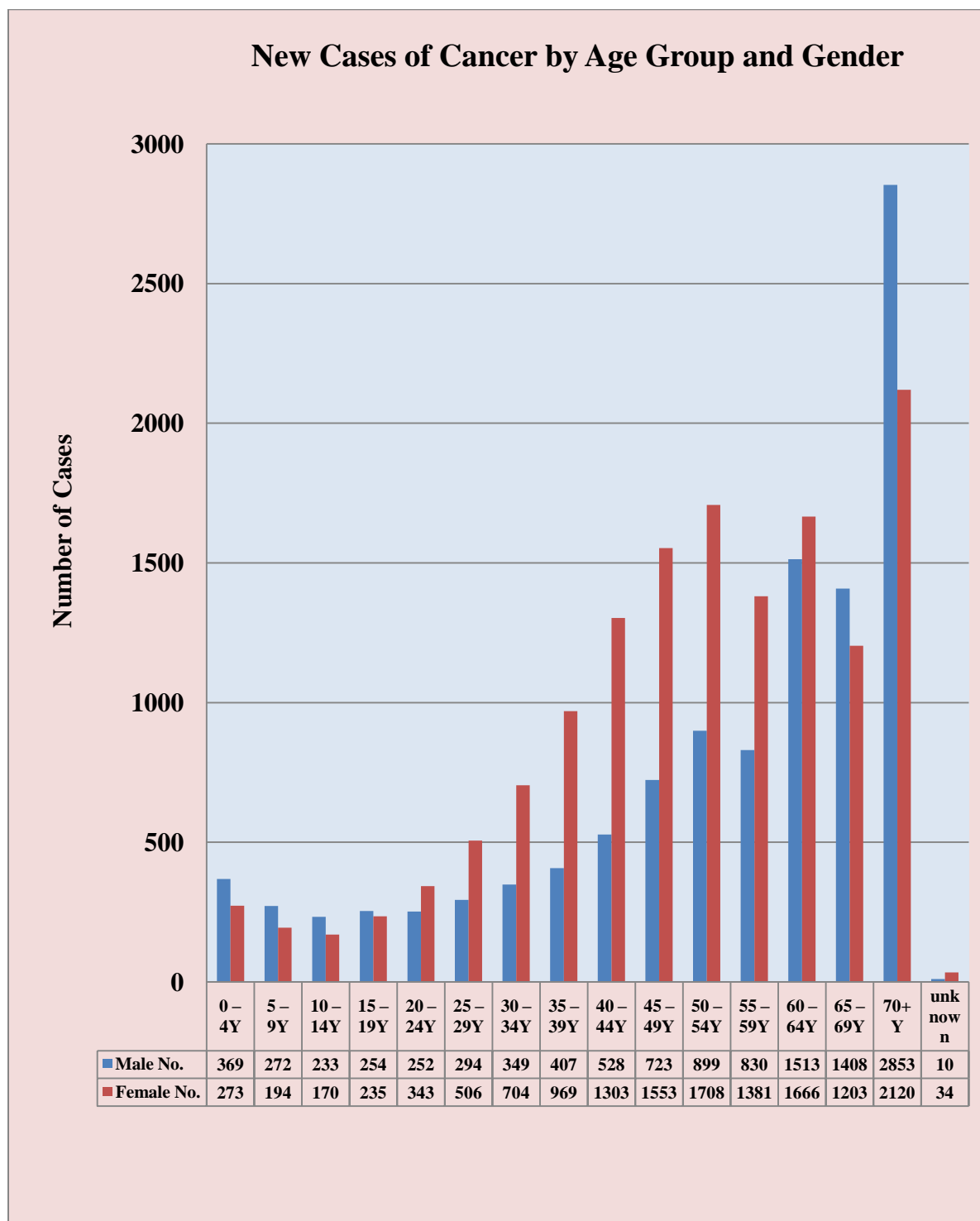
3.2.1. Distribution of new cases of cancer in 2016:

Table No.; (6), Figure No.; (3) shows that the total number of new cases of cancer was 25,556, and the highest percentage was among the age group 70 and more years, and it was in female more than in male. Male to female ratio was 0.7:1

**Table No.; (6) Distribution of New Cases of Cancer by Age Group and Gender,
Iraq, 2016**

Age Group	Male		Female		Total	
	No.	%	No.	%	No.	%
0 - 4	369	1.44	273	1.07	642	2.51
5 - 9	272	1.06	194	0.76	466	1.82
10 - 14	233	0.91	170	0.67	403	1.58
15 - 19	254	0.99	235	0.92	489	1.91
20 - 24	252	0.99	343	1.34	595	2.33
25 - 29	294	1.15	506	1.98	800	3.13
30 - 34	349	1.37	704	2.75	1,053	4.12
35 - 39	407	1.59	969	3.79	1,376	5.38
40 - 44	528	2.07	1,303	5.10	1,831	7.16
45 - 49	723	2.83	1,553	6.08	2,276	8.91
50 - 54	899	3.52	1,708	6.68	2,607	10.20
55 - 59	830	3.25	1,381	5.40	2,211	8.65
60 - 64	1,513	5.92	1,666	6.52	3,179	12.44
65 - 69	1,408	5.51	1,203	4.71	2,611	10.22
70+	2,853	11.16	2,120	8.30	4,973	19.46
unknown	10	0.04	34	0.13	44	0.17
Total	11,194	43.80	14,362	56.20	25,556	100.00%

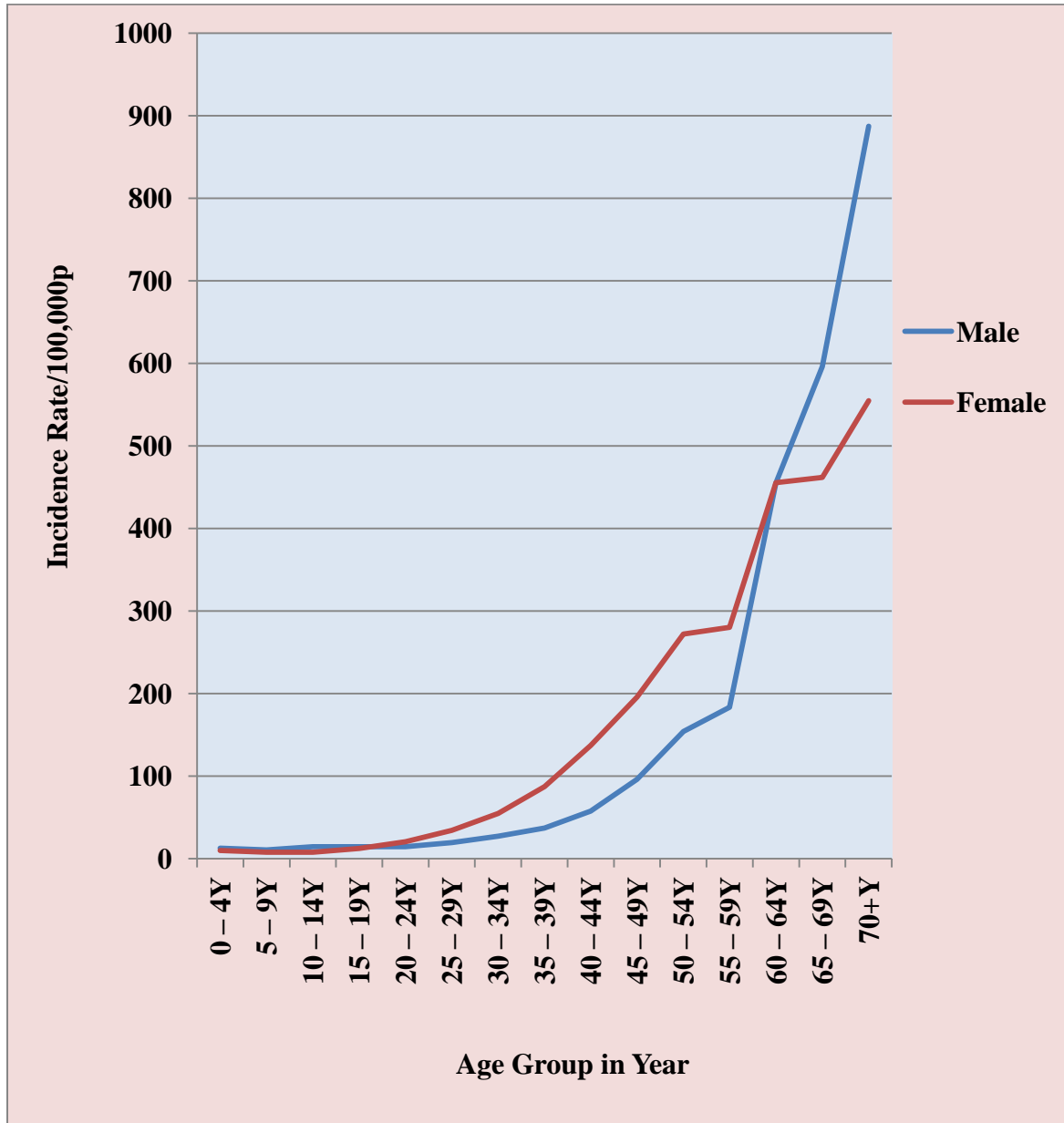
Figure No.; (3) Distribution of New Cases of Cancer by Age Group and Gender, Iraq, 2016



3.2.2. Trend of incidence rate of new cases by age group in 2016:

Figure No.; (4) shows the trend incidence rate of new cases of cancer by age group, which shows that the incidence increased with age in both gender.

Figure No.; (4) Trend Incidence Rate (Per 100,000Population) of New Cases of Cancer by Age Group and Gender, Iraq, 2016



3.2.3. Distribution and the incidence rate of new cases of cancer by provinces stratified by gender in 2016:

Table No.; (7, 8), Figure No.; (5, 6) shows that the highest percentage in both gender was in Baghdad and the lowest was in Anbar, while the highest incidence was in Kerbala and the lowest in Nineveh.

Table No.; (7) Distribution of New Cases of Cancer in Male by Provinces, Iraq, 2016

Provinces	No.	%
Baghdad	2,869	25.63
Basra	931	8.32
Erbil	739	6.6
Thiqr	729	6.51
Kerbala	590	5.27
Babil	580	5.18
Najaf	544	4.86
Sulaimaniya	527	4.71
Dyala	443	3.96
Diwanyia	422	3.77
Duhok	375	3.35
Kirkuk	373	3.33
Wasit	370	3.31
Misan	333	2.97
Nineveh	277	2.47
Salah Al-Deen	237	2.12
Muthana	220	1.97
Anbar	197	1.76
Unknown address	438	3.91
Total	11,194	100.00%

Table No.; (5) Incidence Rate (Per 100,000 Male Populations) of New Cases of Cancer by Provinces, Male Iraq, 2016

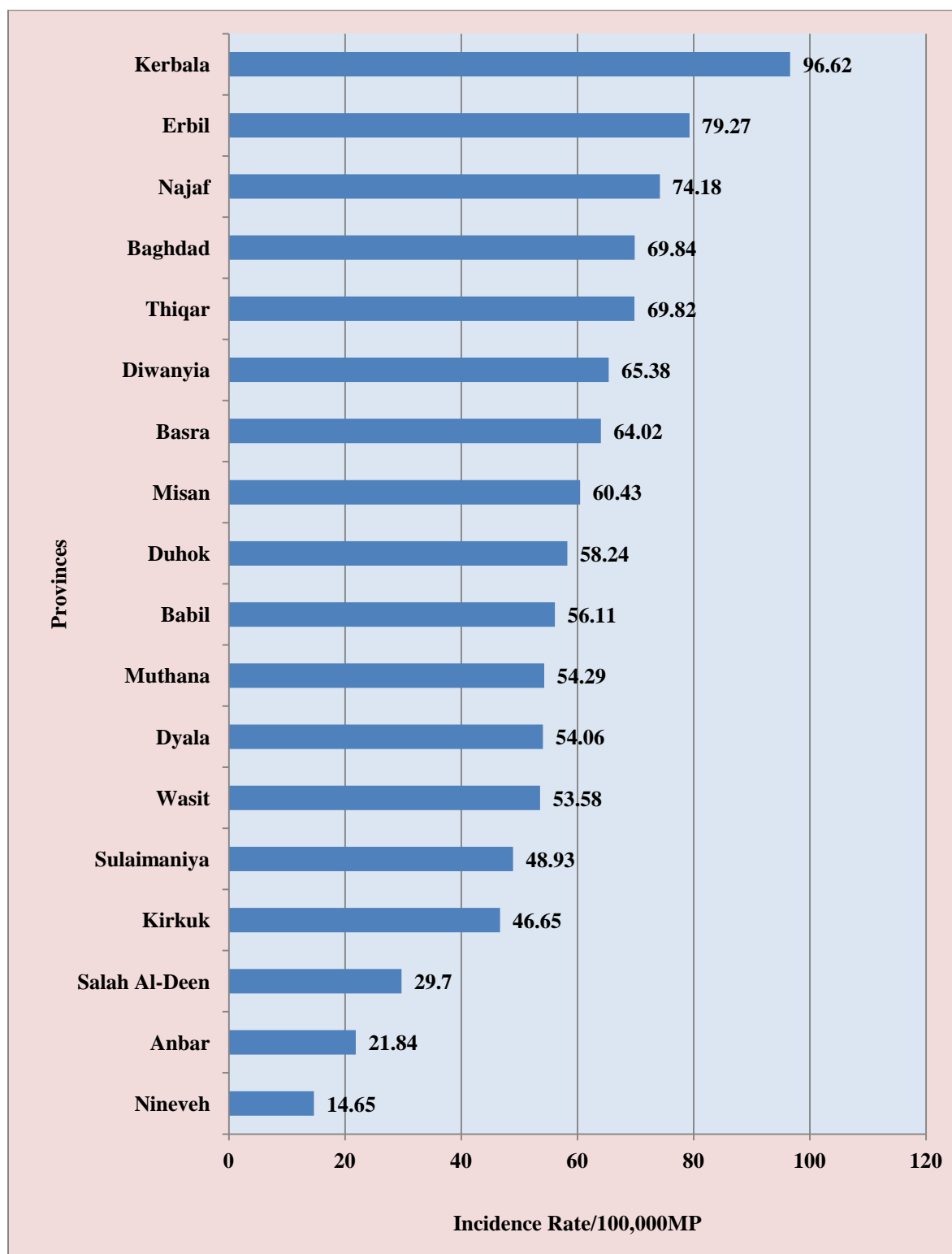
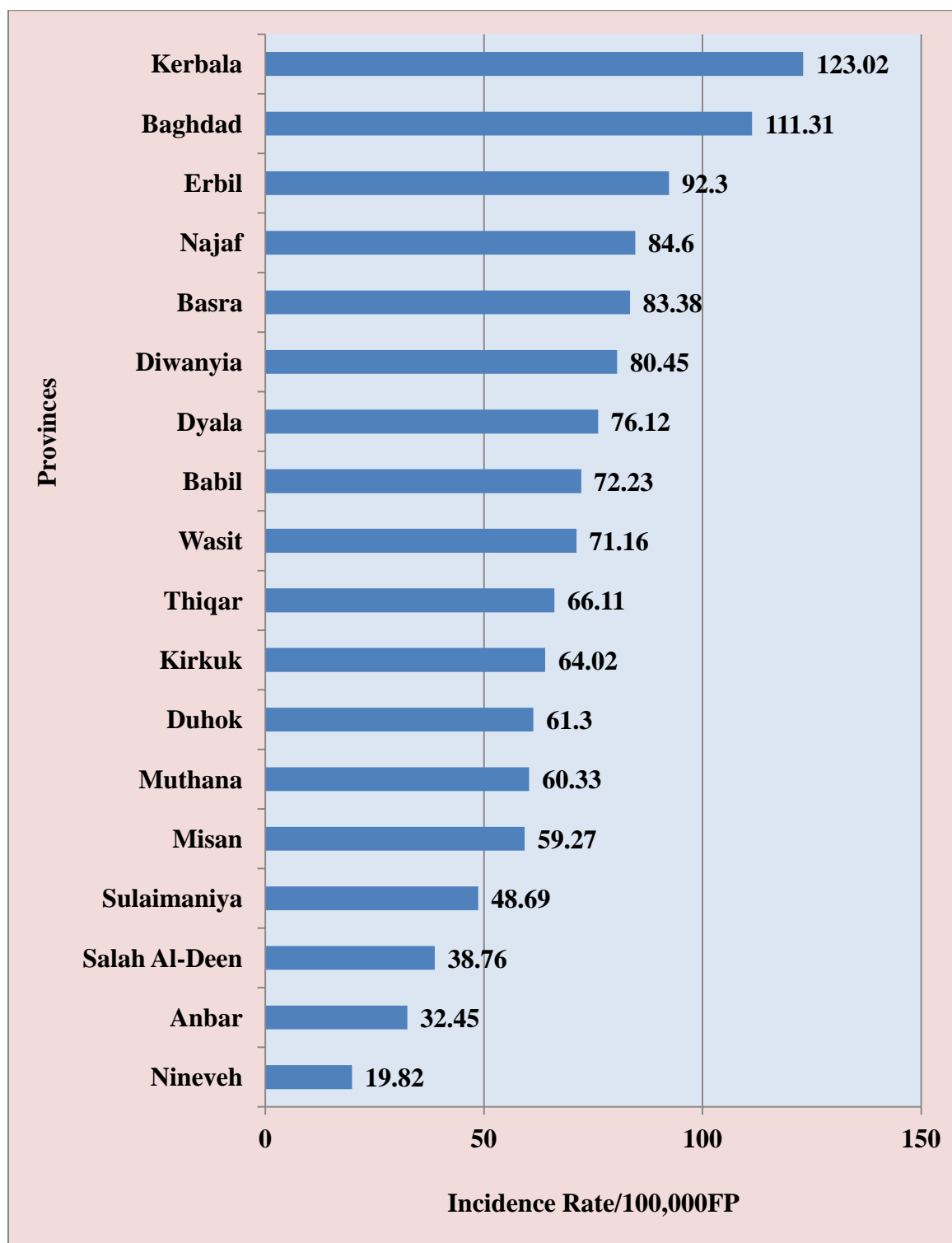


Table No.; (8) Distribution of New Cases of Cancer in Female by Provinces, Iraq, 2016

Provinces	No.	%
Baghdad	4,439	30.91
Basra	1,201	8.36
Erbil	844	5.88
Kerbala	738	5.14
Babil	731	5.09
Thiqr	685	4.77
Najaf	617	4.30
Dyala	611	4.25
Sulaimaniya	524	3.65
Diwanyia	511	3.56
Kirkuk	505	3.52
Wasit	482	3.36
Duhok	393	2.74
Nineveh	359	2.50
Misan	329	2.29
Salah Al-Deen	303	2.11
Anbar	277	1.93
Muthana	242	1.68
Unknown address	571	3.98
Total	14,362	100.00%

Table No.; (6) Incidence Rate (Per 100,000 Female Populations) of New Cases of Cancer by Provinces, Female Iraq, 2016



3.2.4. Distribution and the incidence rate of crud cancer by site and gender:

Table No.; (9) Distribution and Incidence Rate (Per100, 000 Male Population) of Crude Cancer by Site in Male, Iraq, 2016

Site	ICD-O	No.	%	Incidence rate
Lip	C00	22	0.20	0.11
Tongue- base	C01	7	0.06	0.04
Tongue- other	C02	31	0.28	0.16
Gum	C03	4	0.04	0.02
Mouth- floor	C04	6	0.05	0.03
Mouth-palate	C05	8	0.07	0.04
Mouth-other	C06	14	0.13	0.07
Parotid gland	C07	37	0.33	0.19
Salivary glands-other	C08	20	0.18	0.10
Tonsil	C09	4	0.04	0.02
Oropharynx	C10	8	0.07	0.04
Nasopharynx	C11	78	0.70	0.41
Pyriform Sinus	C12	4	0.04	0.02
Hypo-pharynx	C13	9	0.08	0.05
Other lip, oral & pharynx	C14	18	0.16	0.09
Esophagus	C15	89	0.80	0.47
Stomach	C16	420	3.75	2.19

Site	ICD-O	No.	%	Incidence rate
Small intestine	C17	69	0.62	0.36
Colon	C18	506	4.52	2.64
Recto-sigmoid junction	C19	32	0.29	0.17
Rectum	C20	210	1.88	1.10
Anus & anal canal	C21	12	0.11	0.06
Liver & bile ducts	C22	287	2.56	1.50
Gall bladder	C23	37	0.33	0.19
Biliary tract-other	C24	43	0.38	0.22
Pancreas	C25	339	3.03	1.77
Other digestive organs	C26	45	0.40	0.24
Nasal cavity& middle ear	C30	21	0.19	0.11
Accessory sinuses	C31	6	0.05	0.03
Larynx	C32	316	2.82	1.65
Trachea	C33	6	0.05	0.03
Bronchus & lung	C34	1,485	13.27	7.76
Thymus	C37	31	0.28	0.16
Heart, Mediastinum & pleura	C38	36	0.32	0.19
Other respiratory & thoracic	C39	9	0.08	0.05
Bone, cartilage, & limbs	C40	75	0.67	0.39

Site	ICD-O	No.	%	Incidence rate
Bone & cartilage-other	C41	141	1.26	0.74
Bone marrow	C42	1	0.01	0.01
Skin- other	C44	501	4.48	2.62
Nerves, peripheral & autonomic nervous system	C47	6	0.05	0.03
Peritoneum & retroperitoneal	C48	20	0.18	0.10
Other connective soft tissue	C49	162	1.45	0.85
Breast	C50	74	0.66	0.39
Penis	C60	5	0.04	0.03
Prostate	C61	791	7.07	4.13
Testis	C62	172	1.45	0.90
Male genital-other	C63	4	0.04	0.02
Kidney, not renal pelvis	C64	337	3.01	1.76
Renal Pelvis	C65	7	0.06	0.04
Ureter	C66	6	0.05	0.03
Urinary bladder	C67	1,059	9.46	5.53
Urinary organs-other	C68	8	0.07	0.04
Eye & Adnexa	C69	29	0.26	0.15
Meninges	C70	28	0.25	0.15
Brain	C71	616	5.50	3.22

Site	ICD-O	No.	%	Incidence rate
Nervous system-other	C72	23	0.21	0.12
Thyroid gland	C73	259	2.31	1.35
Adrenal gland	C74	34	0.30	0.18
Endocrine glands-other	C75	23	0.20	0.12
Unspecified sites	C76	52	0.46	0.27
Lymph nodes	C77	0	0.00	0.00
Unknown primary site	C80	328	2.93	1.71
Chronic Myeloproliferative disorders		68	0.62	0.36
Hodgkin disease		295	2.66	1.54
Immunoproliferative diseases		1	0.01	0.01
Leukemia		958	8.56	5.01
Mast cell tumor		1	0.01	0.01
Myelodys plastic syndromes		32	0.30	0.17
Non-Hodgkin lymphomas		658	5.89	3.44
Plasma cell tumor		151	1.36	0.79
Total		11,194	100.00%	58.49

**Table No.; (10) Distribution and Incidence Rate (Per100, 000Population) of Crude
Cancer by Site in Female, Iraq, 2016**

Site	ICD-O	No.	%	Incidence Rate
Lip	C00	13	0.09	0.07
Tongue- base	C01	7	0.05	0.04
Tongue- other	C02	43	0.30	0.23
Gum	C03	3	0.02	0.02
Mouth- floor	C04	5	0.03	0.03
Mouth-palate	C05	5	0.03	0.03
Mouth-other	C06	17	0.12	0.09
Parotid gland	C07	27	0.19	0.14
Salivary glands-other	C08	20	0.14	0.11
Tonsil	C09	3	0.02	0.02
Oropharynx	C10	4	0.03	0.02
Nasopharynx	C11	52	0.36	0.28
Pyriform Sinus	C12	1	0.01	0.01
Hypo-pharynx	C13	15	0.10	0.08
Other lip, oral & pharynx	C14	10	0.07	0.05
Esophagus	C15	62	0.43	0.33
Stomach	C16	353	2.46	1.88
Small intestine	C17	39	0.27	0.21
Colon	C18	502	3.50	2.68
Recto-sigmoid junction	C19	30	0.21	0.16
Rectum	C20	200	1.39	1.07

Site	ICD-O	No	%	Incidence Rate
Anus & anal canal	C21	13	0.09	0.07
Liver & bile ducts	C22	236	1.64	1.26
Gall bladder	C23	73	0.51	0.39
Biliary tract-other	C24	38	0.26	0.20
Pancreas	C25	273	1.90	1.46
Other digestive organs	C26	48	0.33	0.26
Nasal cavity & middle ear	C30	18	0.13	0.10
Accessory sinuses	C31	7	0.05	0.04
Larynx	C32	95	0.66	0.51
Trachea	C33	4	0.03	0.02
Bronchus & lung	C34	638	4.44	3.40
Thymus	C37	17	0.12	0.09
Heart, Mediastinum & pleura	C38	25	0.17	0.13
Other respiratory & thoracic	C39	1	0.01	0.01
Bone, cartilage, & limbs	C40	46	0.32	0.25
Bone & cartilage-other	C41	125	0.87	0.67
Bone marrow	C42	1	0.01	0.01
Skin- other	C44	428	2.98	2.28
Nerves, peripheral & autonomic nervous system	C47	9	0.06	0.05
Peritoneum & retroperitoneal	C48	23	0.16	0.12
Other connective soft tissue	C49	135	0.94	0.72

Site	ICD-O	No.	%	Incidence Rate
Breast	C50	4,922	34.27	26.26
Vulva	C51	17	0.12	0.09
Vagina	C52	15	0.10	0.08
Cervix uteri	C53	202	1.41	1.08
Corpus uteri	C54	269	1.87	1.44
Uterus unspecified	C55	355	2.47	1.89
Ovary	C56	571	3.98	3.05
Female genital-other	C57	6	0.04	0.03
Placenta	C58	106	0.74	0.57
Kidney, not renal pelvis	C64	217	1.51	1.16
Renal Pelvis	C65	2	0.01	0.01
Ureter	C66	5	0.03	0.03
Urinary bladder	C67	360	2.51	1.92
Urinary organs-other	C68	3	0.02	0.02
Eye & Adnexa	C69	39	0.27	0.21
Meninges	C70	47	0.33	0.25
Brain	C71	508	3.54	2.71
Nervous system-other	C72	30	0.21	0.16
Thyroid gland	C73	864	6.02	4.61
Adrenal gland	C74	19	0.13	0.10
Endocrine glands-other	C75	15	0.10	0.08
Unspecified sites	C76	79	0.55	0.42
Lymph nodes	C77	0	0.00	0.00

Site	ICD-O	No.	%	Incidence Rate
Unknown primary site	C80	369	2.57	1.97
Chronic Myeloproliferative disorders		45	0.31	0.24
Hodgkin disease		252	1.75	1.34
Immunoproliferative diseases		1	0.01	0.01
Leukemia		699	4.87	3.73
Mast cell tumor		0	0.00	0.00
Myelodysplastic syndromes		27	0.19	0.14
Non-Hodgkin lymphomas		538	3.75	2.87
Plasma cell tumor		116	0.82	0.62
Total		14,362	100.00%	76.62

Table No.; (11) Distribution of Crude Cancer by Site and Age Group in Male, Iraq, 2016

Site	ICDO	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Un.	Total	%
Lip	C00	0	0	0	1	0	0	1	1	2	3	3	2	3	3	3	0	22	0.20
Tongue - base	C01	0	0	0	0	0	0	0	0	2	1	0	1	0	0	3	0	7	0.06
Tongue - other	C02	1	0	0	0	1	2	0	0	1	1	4	2	7	4	8	0	31	0.28
Gum	C03	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	4	0.04
Mouth - floor	C04	0	1	0	0	0	0	0	0	1	0	1	1	1	0	1	0	6	0.05
Mouth - palate	C05	0	1	1	0	0	0	0	1	0	0	1	2	0	0	2	0	8	0.07
Mouth - other	C06	0	0	0	0	1	0	1	1	0	0	3	3	1	3	1	0	14	0.13
Parotid gland	C07	0	0	0	2	0	0	3	3	4	5	2	4	5	4	5	0	37	0.33
Salivary gland	C08	0	0	1	0	1	0	0	0	1	2	4	2	4	2	3	0	20	0.18
Tonsils	C09	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	4	0.04
Oropharynx	C10	0	0	0	0	0	1	0	0	0	0	3	1	0	0	3	0	8	0.07
Nasopharynx	C11	0	1	1	6	3	7	4	9	4	15	10	6	5	4	3	0	78	0.70
Pyriform sinus	C12	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	4	0.04
Hypo pharynx	C13	0	0	0	1	0	0	0	0	0	0	0	0	0	0	8	0	9	0.08

Site	ICDO	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Un.	Total	%
Pharynx	C14	1	0	0	0	0	0	1	1	0	4	0	2	2	1	6	0	18	0.16
Esophagus	C15	0	0	0	0	0	2	3	4	4	10	6	10	10	15	25	0	89	0.80
Stomach	C16	1	0	1	1	2	5	8	18	34	48	43	33	63	61	101	1	420	3.75
Small intestine	C17	0	0	0	0	1	2	3	7	9	6	8	2	9	4	18	0	69	0.62
Colon	C18	0	0	0	1	9	14	15	29	38	47	58	48	78	54	115	0	506	4.52
Recto - sigmoid junction	C19	0	0	0	0	1	1	1	3	2	4	1	5	4	5	5	0	32	0.29
Rectum	C20	0	0	0	0	5	7	7	7	20	20	19	30	26	18	50	1	210	1.88
Anus	C21	0	0	0	0	0	0	1	0	0	1	1	0	1	4	4	0	12	0.11
Liver	C22	4	5	0	3	0	1	1	3	7	15	29	30	55	42	91	1	287	2.56
Gall bladder	C23	0	0	0	0	0	0	0	0	0	2	2	2	10	3	18	0	37	0.33
Bile tract	C24	0	0	0	0	0	2	0	1	3	1	5	7	8	6	10	0	43	0.38
Pancreas	C25	0	0	0	0	2	0	6	9	15	24	50	30	63	46	94	0	339	3.03
Other digestive organ	C26	2	0	0	0	0	1	1	1	2	4	6	4	5	8	11	0	45	0.40
Ear/Nose	C30	0	0	0	0	0	0	1	3	1	2	3	2	4	1	4	0	21	0.19
Accessory sinus	C31	1	0	0	0	0	0	1	0	0	0	0	1	1	2	0	0	6	0.05

Site	ICDO	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Un.	Total	%
Glottis / larynx	C32	0	0	0	2	0	1	1	3	8	18	22	38	63	64	95	1	316	2.82
Trachea	C33	0	0	0	0	0	0	0	0	0	0	1	0	2	0	3	0	6	0.05
Bronchus & lung	C34	0	0	0	0	6	7	9	16	27	66	107	107	279	281	580	0	1,485	13.27
Thymus	C37	0	0	0	0	0	1	1	1	2	3	4	1	4	8	6	0	31	0.28
Heart & Mediastinum	C38	2	0	0	2	0	0	0	3	1	5	5	3	4	5	6	0	36	0.32
Other respiratory tract	C39	0	0	0	1	0	0	0	0	0	0	1	0	1	1	5	0	9	0.08
Bones - limbs	C40	4	4	9	25	8	5	2	2	2	1	2	2	2	1	6	0	75	0.67
Bones - other	C41	3	11	20	19	13	9	9	9	7	5	5	2	3	8	18	0	141	1.26
Bone marrow	C42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.01
Skin	C44	1	6	5	2	11	10	5	17	22	37	36	37	74	81	156	1	501	4.48
Nerves	C47	3	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	6	0.05
Peritoneum	C48	4	0	1	0	0	0	1	0	3	0	3	2	1	1	4	0	20	0.18
Soft Tissues	C49	15	2	7	10	15	10	7	10	8	12	12	7	13	11	23	0	162	1.45
Breast	C50	0	0	0	0	0	3	4	3	3	5	12	9	8	7	20	0	74	0.66

Site	ICDO	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Un.	Total	%
Penis	C60	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	5	0.04
Prostate	C61	0	0	0	0	0	0	0	1	9	10	23	35	111	165	437	0	791	7.07
Testis	C62	13	0	0	9	17	29	30	17	20	10	7	2	7	1	10	0	172	1.45
Male gen - other	C63	0	0	0	0	1	1	0	1	0	0	0	0	0	0	1	0	4	0.04
Kidney	C64	28	11	1	1	3	4	11	6	27	27	43	35	54	37	49	0	337	3.01
Renal pelvis	C65	0	0	0	0	0	0	0	0	0	2	1	0	0	2	2	0	7	0.06
Ureter	C66	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	6	0.05
Urinary bladder	C67	3	2	3	4	4	5	8	21	41	59	83	101	162	167	393	3	1,059	9.46
Other urinary organs	C68	0	0	0	0	0	0	0	0	1	0	0	1	3	0	3	0	8	0.07
Eye	C69	20	3	1	0	0	0	1	1	1	1	0	0	0	1	0	0	29	0.26
Meninges	C70	2	1	1	1	0	0	2	3	1	5	2	1	1	4	4	0	28	0.25
Brain	C71	44	49	49	24	21	37	38	32	38	55	55	31	60	35	48	0	616	5.50
Nervous system	C72	5	1	4	2	0	2	2	1	1	0	0	0	2	1	2	0	23	0.21
Thyroid	C73	0	0	7	5	16	19	34	35	24	28	21	12	17	19	22	0	259	2.31
Adrenal gland	C74	11	3	0	2	1	1	2	2	1	2	4	1	3	0	1	0	34	0.30

Site	ICDO	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Un.	Total	%
Endocrine - other	C75	0	2	1	1	1	2	1	4	2	3	1	2	3	0	0	0	23	0.20
Not otherwise specified	C76	7	2	2	2	3	0	4	1	1	7	2	5	4	2	10	0	52	0.46
Lymph nodes	C77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Unknown	C80	9	4	5	3	1	6	11	8	19	20	32	16	46	56	92	0	328	2.93
Chronic Myeloproliferative disorders		1	0	2	3	2	2	3	5	2	11	1	10	8	7	11	0	68	0.62
Hodgkin disease		12	30	26	35	25	27	24	19	18	18	10	8	23	8	11	1	295	2.66
Immunoproliferative diseases		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.01
Leukemia		127	90	56	64	52	39	52	48	39	35	60	55	74	58	108	1	958	8.56
Mast cell tumor		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0.01
Myelodysplastic syndromes		1	1	2	1	0	1	2	0	2	1	2	4	5	3	7	0	32	0.30
Non-Hodgkin lymphomas		42	42	24	20	25	27	26	32	35	44	65	50	77	54	95	0	658	5.89
Plasma cell tumor		2	0	1	1	0	1	1	3	10	17	12	21	26	29	27	0	151	1.36
Total		369	272	233	254	252	294	349	407	528	723	899	830	1,513	1,408	2,853	10	11,194	100%

Table No.; (12) Distribution of Crude Cancer by Site and Age Group in Female, Iraq, 2016

Site	ICDO	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Un.	Total	%
Lip	C00	1	0	0	0	0	0	0	0	0	0	2	2	2	2	4	0	13	0.09
Tongue - base	C01	0	0	0	0	0	0	0	1	0	0	2	0	2	1	1	0	7	0.05
Tongue - other	C02	0	0	0	0	0	3	3	1	3	4	9	1	6	3	10	0	43	0.30
Gum	C03	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3	0.02
Mouth - floor	C04	0	0	0	0	0	0	0	0	0	0	1	0	0	2	2	0	5	0.03
Mouth - palate	C05	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	5	0.03
Mouth - other	C06	0	0	1	0	0	2	0	1	0	1	2	1	2	3	4	0	17	0.12
Parotid gland	C07	0	0	0	1	1	0	2	5	2	0	3	4	2	3	4	0	27	0.19
Salivary gland	C08	0	0	0	1	1	0	0	1	2	4	2	0	2	1	6	0	20	0.14
Tonsils	C09	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	3	0.02
Oropharynx	C10	0	0	1	0	0	0	0	1	0	0	0	0	1	1	0	0	4	0.03
Nasopharynx	C11	0	1	0	4	3	3	1	3	4	3	5	8	9	1	7	0	52	0.36
Pyriform sinus	C12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.01

Site	ICDO	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Un.	Total	%
Hypo pharynx	C13	0	0	0	0	0	1	1	2	5	0	1	3	1	0	1	0	15	0.10
Pharynx	C14	0	0	0	0	0	1	1	1	1	1	0	0	2	3	0	0	10	0.07
Esophagus	C15	0	0	0	0	0	0	4	6	2	6	6	6	7	8	17	0	62	0.43
Stomach	C16	0	0	0	3	7	10	10	18	29	39	32	40	49	35	80	1	353	2.46
Small intestine	C17	0	0	0	0	0	2	0	2	2	4	4	7	3	3	12	0	39	0.27
Colon	C18	0	0	0	0	10	23	12	25	34	48	49	46	73	70	112	0	502	3.50
Recto sigmoid junction	C19	0	0	0	0	0	0	1	2	1	7	5	2	3	3	6	0	30	0.21
Rectum	C20	0	0	0	0	4	5	7	16	16	18	30	34	25	19	26	0	200	1.39
Anus	C21	0	0	0	0	0	2	2	2	1	3	1	0	1	0	1	0	13	0.09
Liver	C22	9	2	2	0	1	4	1	6	13	17	15	12	36	27	91	0	236	1.64
Gall bladder	C23	0	0	0	0	0	0	0	0	1	5	11	4	11	11	30	0	73	0.51
Bile tract	C24	0	0	0	0	1	0	0	1	2	6	6	1	6	3	12	0	38	0.26
Pancreas	C25	0	0	0	0	3	4	7	8	5	20	20	26	55	36	86	3	273	1.90
Other digestive organ	C26	0	1	0	0	0	1	0	2	5	3	8	7	4	3	14	0	48	0.33

Site	ICDO	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Un.	Total	%
Ear / nose	C30	2	0	0	0	2	0	1	1	1	2	3	1	3	0	2	0	18	0.13
Accessory sinus	C31	0	0	0	0	0	1	0	0	1	1	0	0	1	0	3	0	7	0.05
Glottis / larynx	C32	0	0	0	0	4	1	4	3	3	4	11	10	18	17	20	0	95	0.66
Trachea	C33	0	0	0	0	0	0	0	1	0	0	0	0	1	0	2	0	4	0.03
Bronchus & lung	C34	0	0	0	0	8	8	8	11	12	23	61	56	100	119	230	2	638	4.44
Thymus	C37	0	0	0	1	0	0	4	3	1	0	2	1	3	0	2	0	17	0.12
Heart & Mediastinum	C38	2	0	0	1	1	0	2	1	1	0	3	2	4	2	6	0	25	0.17
Other respiratory tract	C39	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0.01
Bones - limbs	C40	2	7	6	11	3	7	1	3	0	3	0	1	0	2	0	0	46	0.32
Bones - other	C41	4	6	16	9	9	7	4	4	14	10	9	6	9	4	13	1	125	0.87
Bone marrow	C42	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.01
Skin	C44	6	1	5	6	8	9	14	8	19	26	43	40	78	40	118	7	428	2.98
Nerves	C47	3	0	0	2	0	0	0	1	1	0	0	0	1	1	0	0	9	0.06
Peritoneum	C48	3	1	0	0	1	1	1	0	2	1	2	1	5	3	2	0	23	0.16

Site	ICDO	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Un.	Total	%
Soft tissues	C49	2	4	9	11	13	3	10	10	11	15	7	7	13	9	10	1	135	0.94
Breast	C50	0	0	0	0	26	97	253	452	689	799	814	588	512	295	384	13	4,922	34.27
Vulva	C51	0	0	0	0	0	0	0	0	2	2	4	1	1	3	4	0	17	0.12
Vagina	C52	0	0	1	1	0	0	0	1	0	0	3	4	0	2	2	1	15	0.10
Cervix	C53	0	0	0	0	1	5	1	11	30	23	29	23	35	18	25	1	202	1.41
Corpus uteri	C54	0	0	0	0	1	8	8	17	17	19	32	52	54	29	32	0	269	1.87
Uterus Unspecified	C55	0	0	0	0	4	6	10	22	18	37	52	60	51	45	50	0	355	2.47
Ovary	C56	4	4	9	13	25	31	23	27	52	61	64	59	79	47	72	1	571	3.98
Female genital	C57	0	0	0	1	0	0	0	0	0	0	1	1	1	0	2	0	6	0.04
Placenta	C58	0	0	0	20	27	18	16	12	8	3	0	0	1	0	0	1	106	0.74
Kidney	C64	41	13	2	2	2	5	3	6	18	15	24	17	21	22	26	0	217	1.51
Renal pelvis	C65	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	0.01
Ureter	C66	0	0	0	0	0	0	0	1	0	2	0	0	1	0	1	0	5	0.03
Urinary bladder	C67	0	1	0	3	2	2	1	10	7	15	24	26	63	57	149	0	360	2.51
Other urinary organs	C68	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	3	0.02

Site	ICDO	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Un.	Total	%
Eye & Adnexa	C69	19	5	0	0	1	0	0	0	0	0	0	4	4	3	2	1	39	0.27
Meninges	C70	2	0	2	1	1	1	2	3	3	7	6	6	8	4	1	0	47	0.33
Brain	C71	30	57	29	20	25	24	29	24	43	37	42	23	30	39	56	0	508	3.54
Nervous system other	C72	3	0	4	0	3	3	4	2	0	3	3	2	0	1	2	0	30	0.21
Thyroid gland	C73	0	0	7	19	57	106	143	117	98	97	69	35	46	22	48	0	864	6.02
Adrenal gland	C74	2	0	0	2	1	0	0	0	3	4	4	1	1	1	0	0	19	0.13
Endocrine glands, other	C75	0	2	0	1	2	1	1	1	3	1	2	1	0	0	0	0	15	0.10
Not otherwise specified	C76	10	3	1	4	1	7	1	4	8	5	10	5	7	4	9	0	79	0.55
Lymph nodes	C77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Unknown primary site	C80	6	1	3	7	8	8	11	12	25	37	33	34	57	45	82	0	369	2.57
Chronic Myeloproliferative disorders		0	0	1	1	0	2	3	1	2	7	5	5	8	3	7	0	45	0.31
Hodgkin disease		1	10	17	33	23	31	36	16	13	11	14	10	10	9	18	0	252	1.75
Immunoproliferative diseases		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.01

ICDO	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Un.	Total	%
Leukemia	93	59	42	35	28	28	27	30	36	43	46	32	59	50	91	0	699	4.87
Myelodys plastic syndromes	1	1	0	1	1	1	0	3	0	1	2	2	5	3	6	0	27	0.19
Non-Hodgkin lymphomas	26	15	12	21	23	21	31	42	28	43	48	47	52	48	81	0	538	3.75
Plasma Cell Tumor	1	0	0	0	1	2	0	4	6	5	16	13	19	17	31	1	116	0.82
Mast cell tumor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total	273	194	170	235	343	506	704	969	1,303	1,553	1,708	1,381	1,666	1,203	2,120	34	14,362	100%

3.3. Top ten cancers in 2016:

3.3.1. Distribution and the incidence rate of new cases of cancer for the year 2016:

Table No.; (13), Figure No.; (7) shows the top ten cancers in 2016 in both genders, it shows that the highest percentage and incidence was among the breast cancer and the lowest was among the prostate cancer.

Table No.; (13) Distribution of Top Ten Cancer, Iraq, 2016

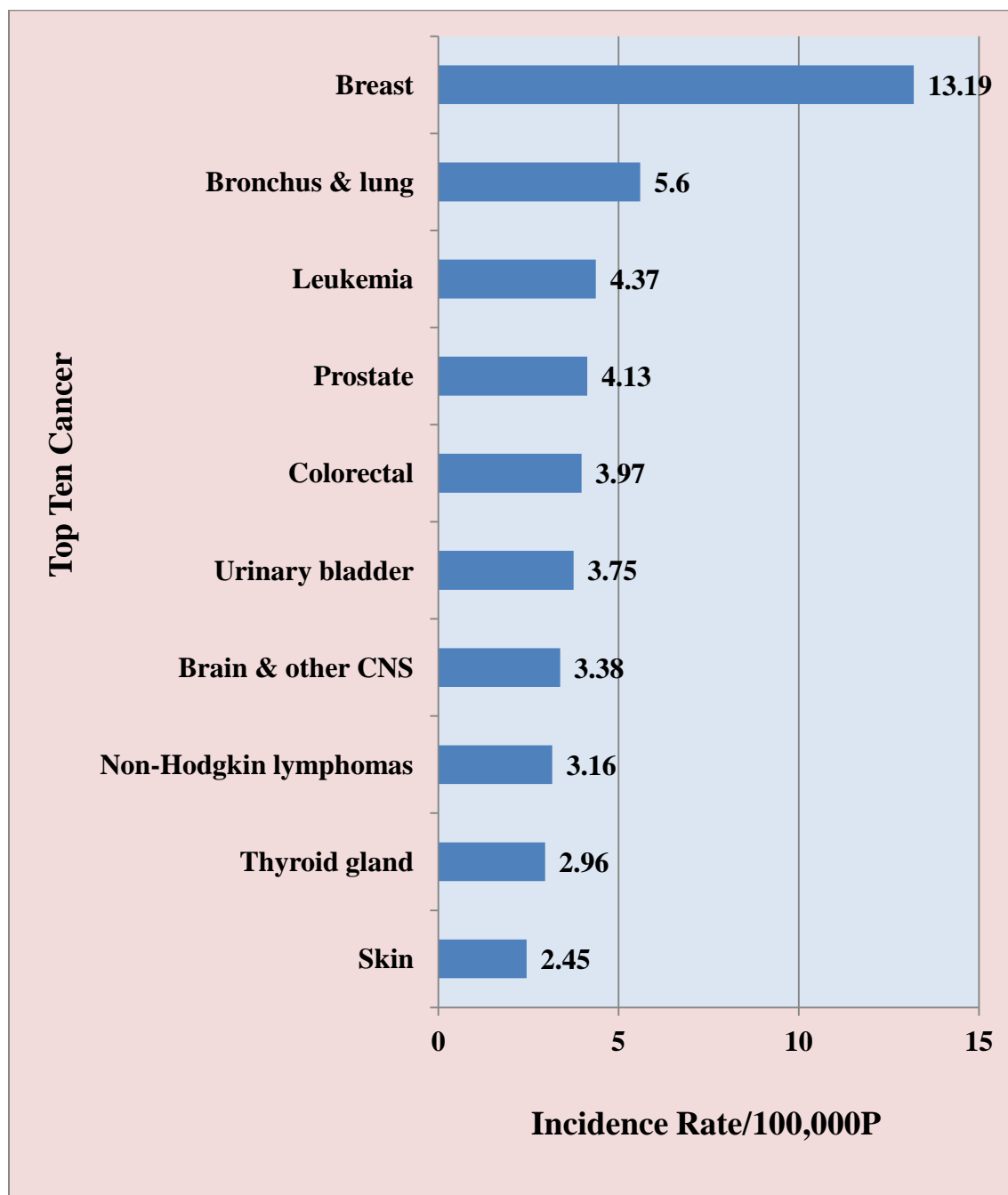
Top ten cancer	No.	%
Breast	4,996	19.55
Bronchus & lung	2,123	8.31
Leukemia*	1,657	6.48
Colorectal	1,505	5.89
Urinary bladder	1,419	5.55
Brain & other CNS**	1,281	5.01
Non-Hodgkin lymphomas***	1,196	4.68
Thyroid gland	1,123	4.39
Skin	929	3.64
Prostate	791	3.10
Total other site cancer	8,536	33.40
Total cancer	25,556	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's)

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord)

*** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (7) Incidence Rate (Per 100,000Population) of Top Ten Cancer, Iraq, 2016



Note: Incidence rate of all top ten cancers /100,000 total population
except for prostate cancer incidence rate /100,000 male populations

3.3.2. Distribution and the incidence rate of top ten cancers in 2016 in male:

Table No.; (14), Figure No.; (8) shows the top ten cancers in 2016 in male, which shows that the highest percentage and incidence was among the bronchus and lung cancer and the lowest was among the pancreas.

Table No.; (14) Distribution of Top Ten Cancer in Male, Iraq, 2016

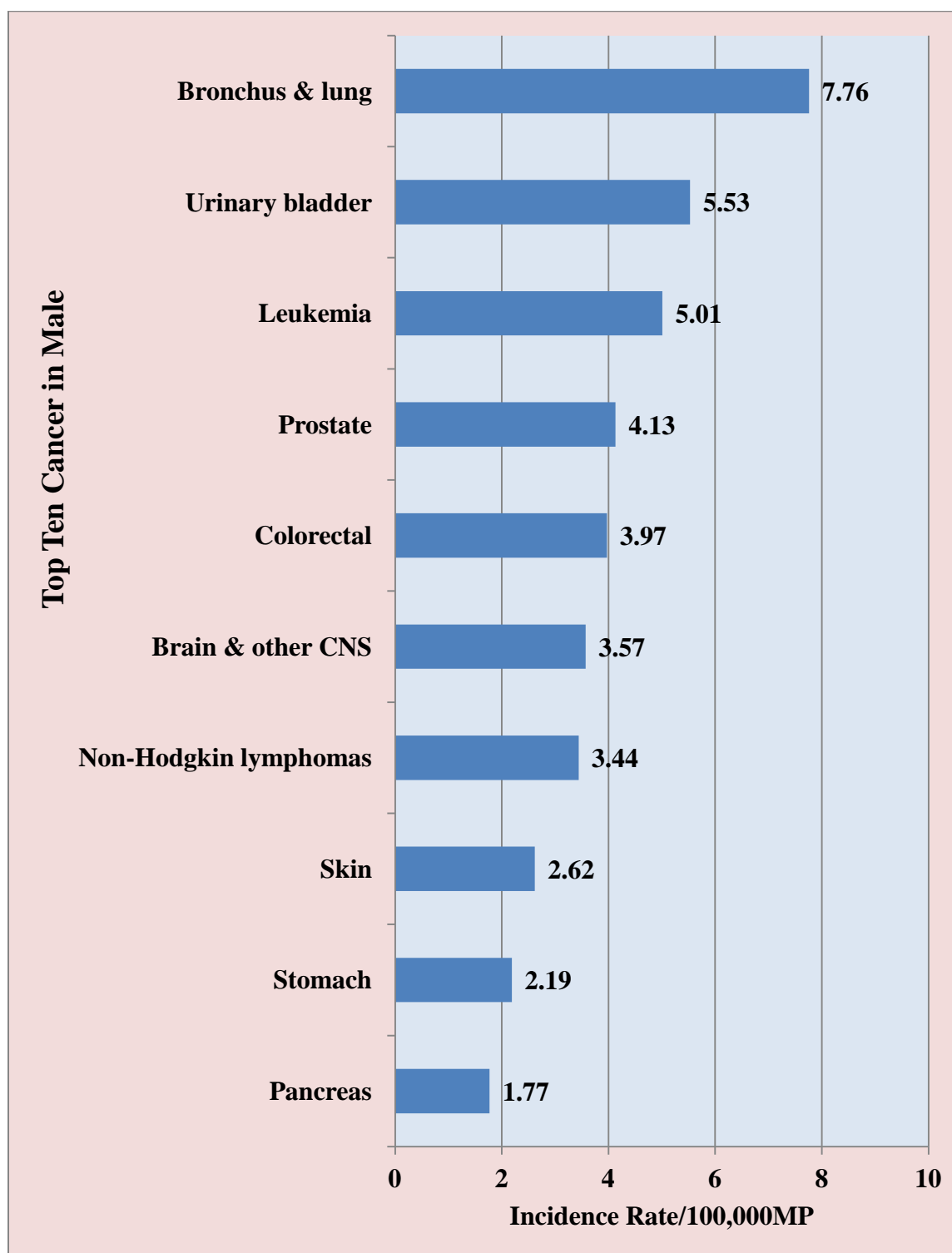
Top ten cancer in male	No.	%
Bronchus & lung	1,485	13.27
Urinary bladder	1,059	9.46
Leukemia*	958	8.56
Prostate	791	7.07
Colorectal	760	6.79
Brain & other CNS**	684	6.11
Non-Hodgkin lymphomas***	658	5.88
Skin	501	4.48
Stomach	420	3.75
Pancreas	339	3.03
Total other site cancer in male	3,539	31.62
Total cancer in male	11,194	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's)

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord)

*** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (8) Incidence Rate (Per 100,000Population) of Top Ten Cancer in Male, Iraq, 2016



3.3.3. Distribution and the incidence rate of top ten cancers in 2016 in female:

Table No.; (15), Figure No.; (9) shows the top ten cancers in 2016 in female, which shows that the highest percentage and incidence was among the breast cancer and the lowest was among the urinary bladder cancer.

Table No.; (15) Distribution of Top Ten Cancer in Females, Iraq, 2016

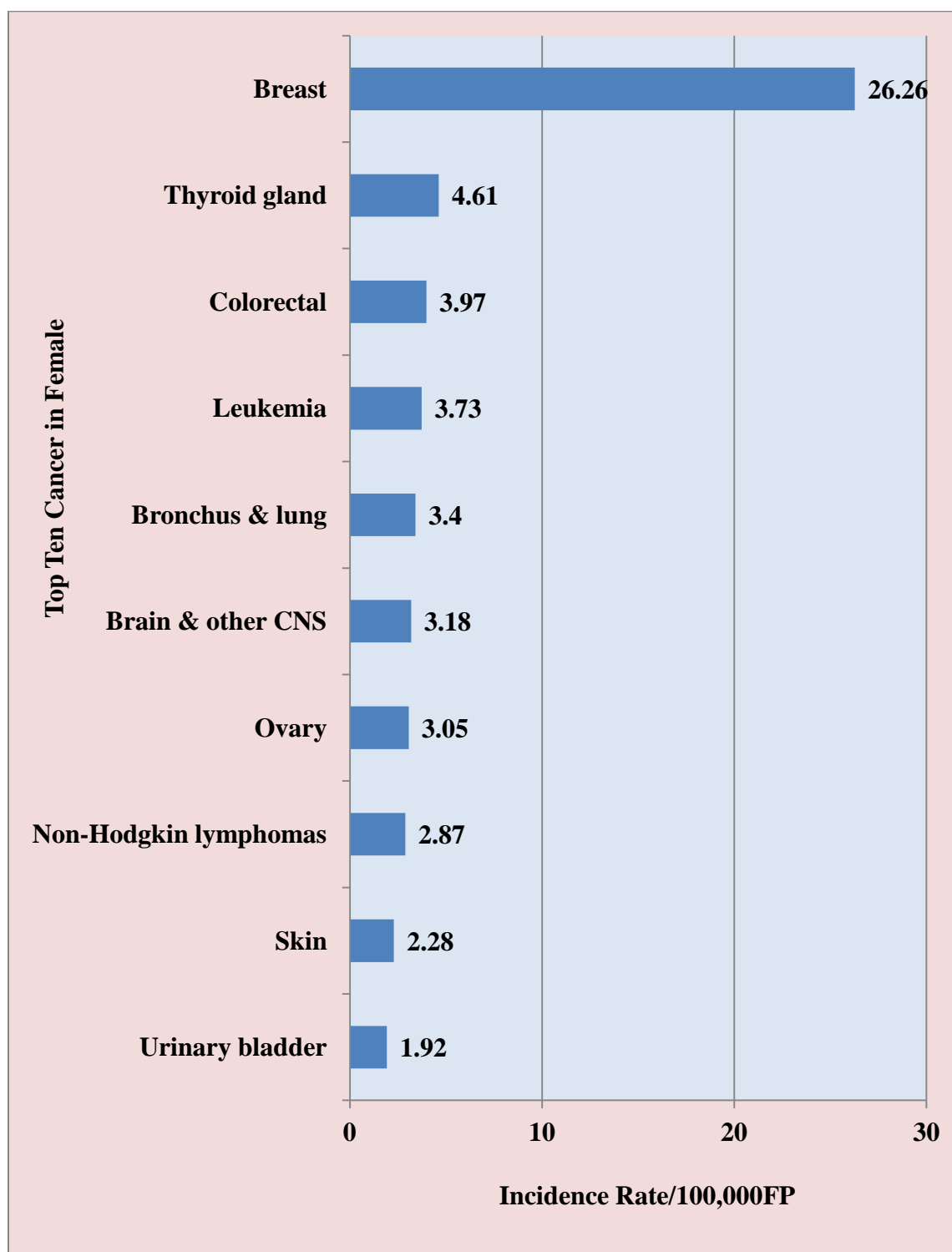
Top ten cancer in female	No.	%
Breast	4,922	34.27
Thyroid gland	864	6.02
Colorectal	745	5.18
Leukemia*	699	4.87
Bronchus & lung	638	4.44
Brain& other CNS**	597	4.16
Ovary	571	3.98
Non-Hodgkin lymphomas***	538	3.75
Skin	428	2.98
Urinary bladder	360	2.51
Total other site cancer in female	4,000	27.84
Total cancers in females	14,362	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's)

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord)

*** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (9) Incidence Rate (Per 100,000Population) of Top Ten Cancer in Female, Iraq, 2016



3.3.4. Trend incidence rate of top ten cancers for the last 6 years from 2011 to 2016:

Figures No.; (10-19) shows the trend incidence of top ten cancers in males, it shows that the trend incidence of the all top ten cancers decreased for the last 6 years from 2011 to 2016:

Figure No.; (10) Trend Incidence Rate (Per 100,000 Male Population) of New Cases of Bronchus and Lung Cancer, Male, Iraq from 2011–2016

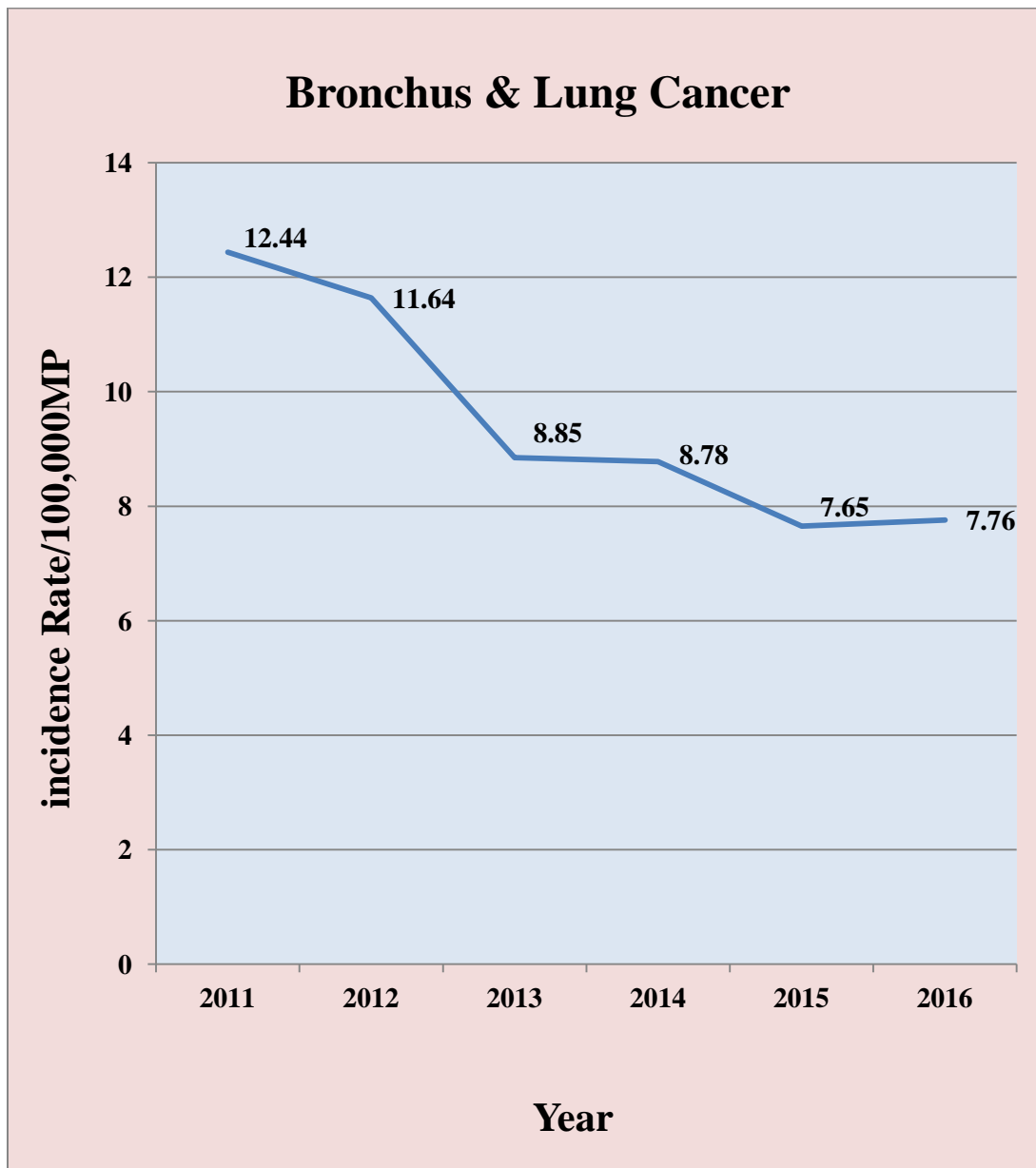


Figure No.; (11) Trend Incidence Rate (Per 100,000 Male Population) of New Cases of Urinary Bladder Cancer, Male, Iraq from 2011–2016



Figure No.; (12) Trend Incidence Rate (Per 100,000 Male Population) of New Cases of Leukemia, Male, Iraq from 2011–201

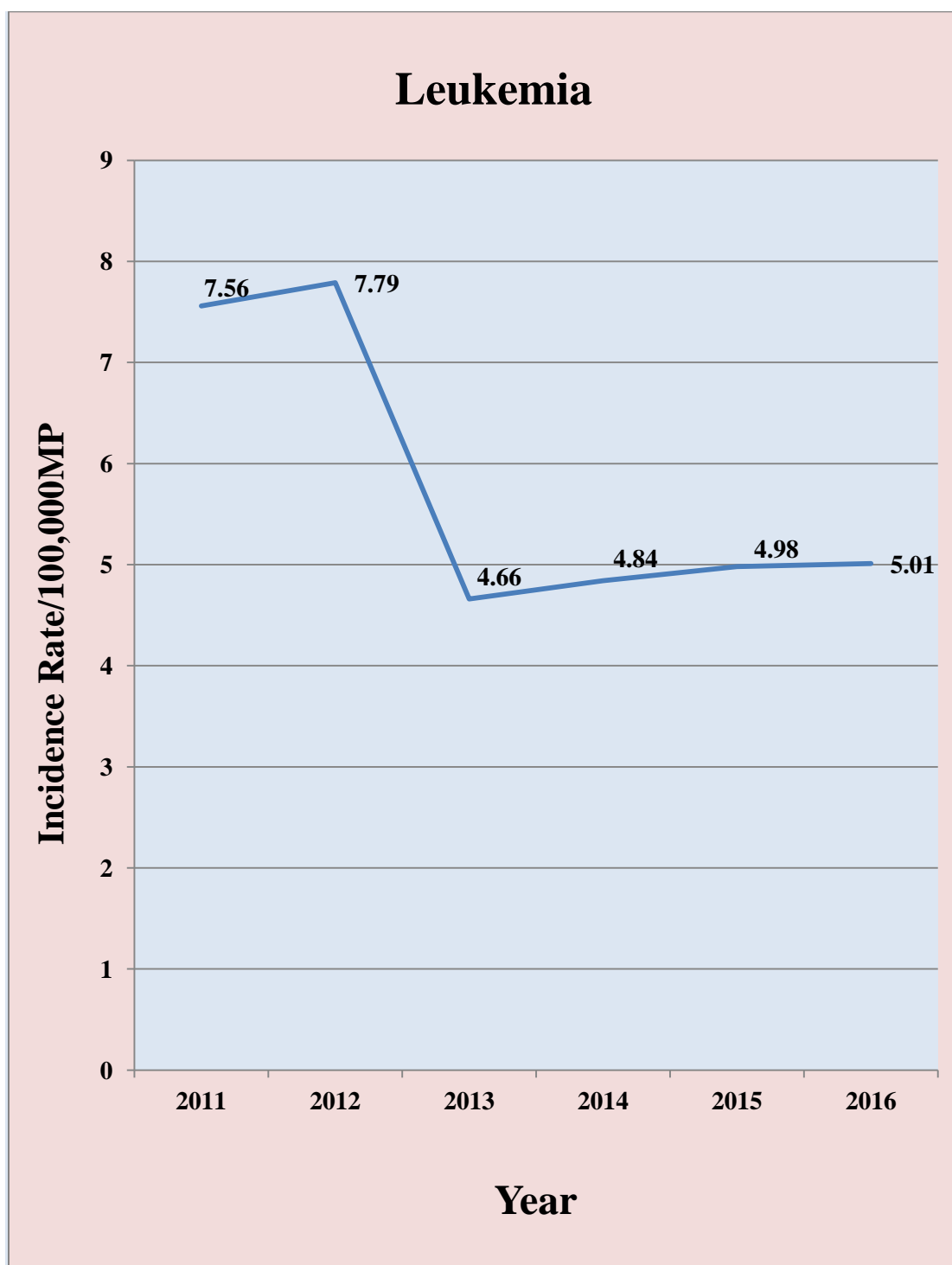


Figure No.; (13) Trend Incidence Rate (Per 100,000 Male Population) of New Cases of Prostate Cancer, Male, Iraq from 2011–2016

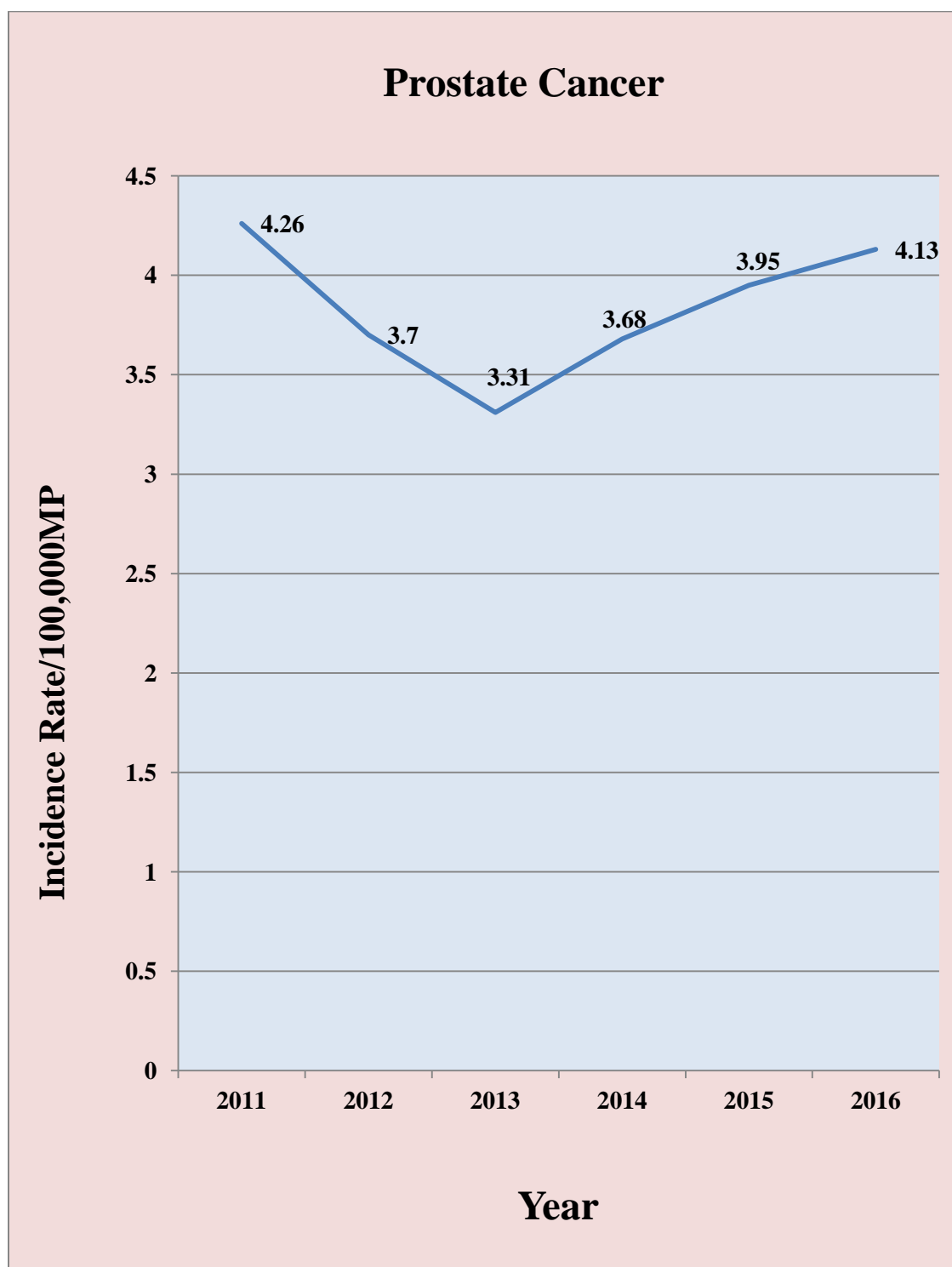


Figure No.; (14) Trend Incidence Rate (Per 100,000 Male Population) of New Cases of Colorectal Cancer, Male, Iraq from 2011–2016

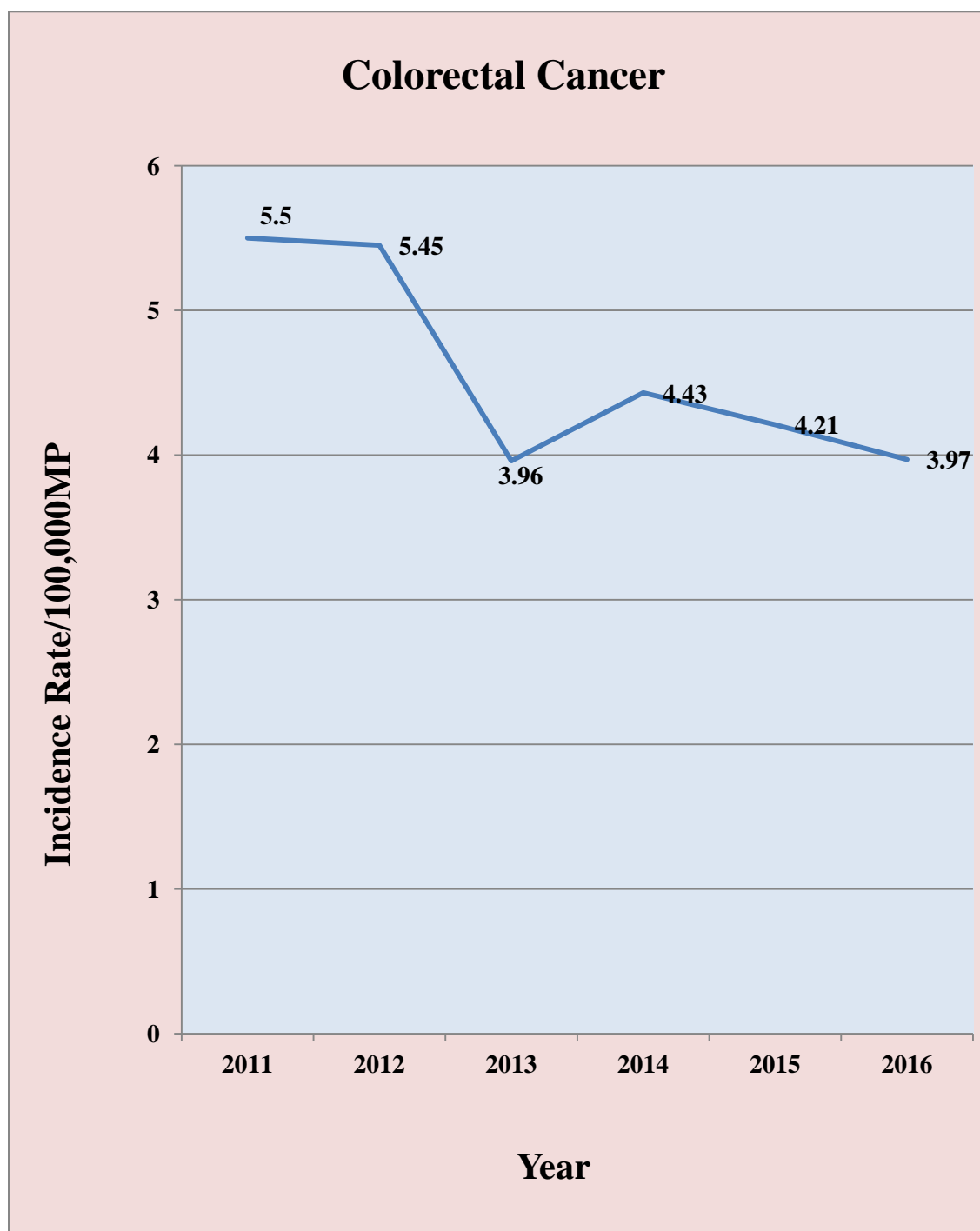


Figure No.; (15) Trend Incidence Rate (Per 100,000 Male Population) of New Cases of Brain and other CNS Tumor, Male, Iraq from 2011–2016

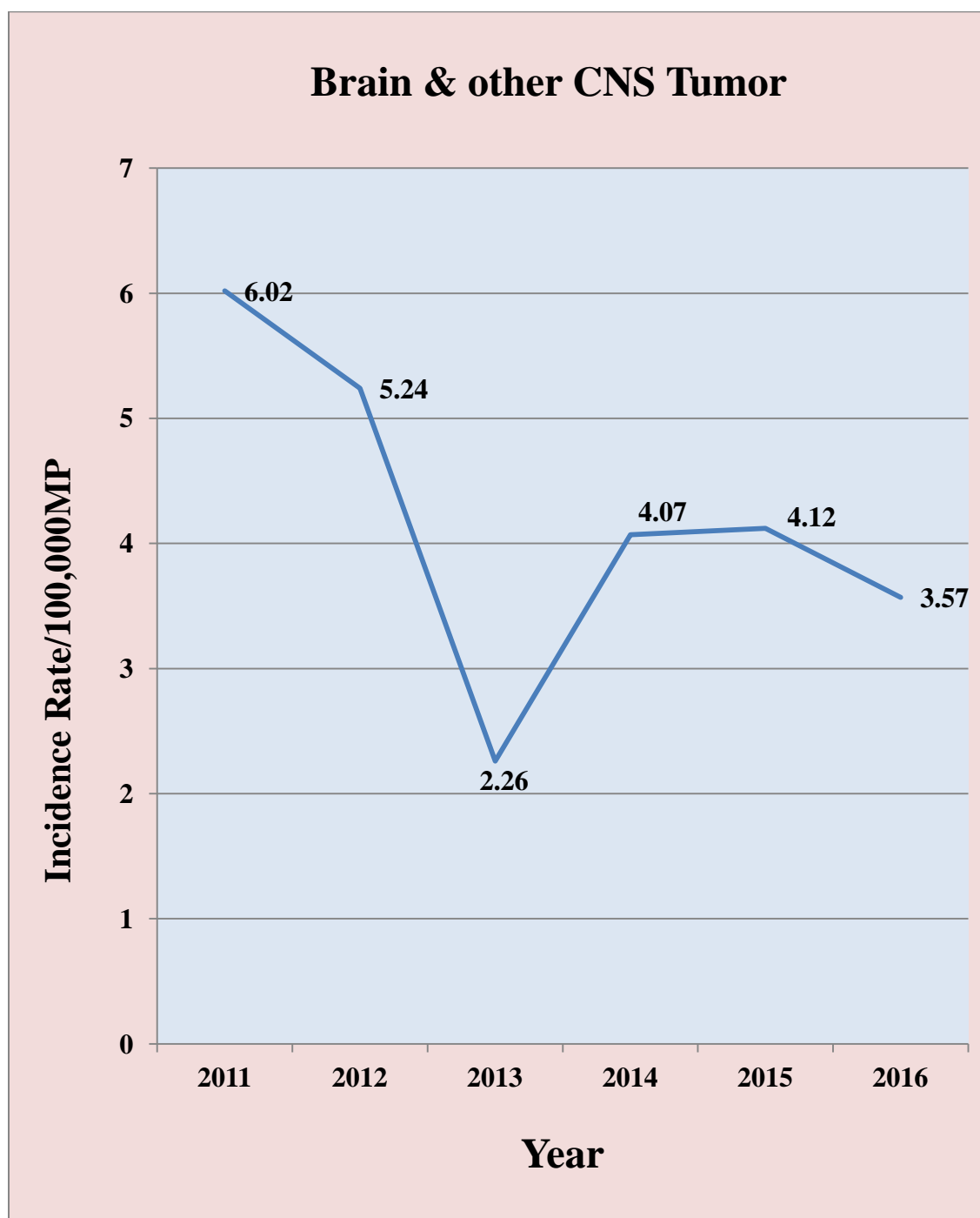


Figure No.; (16) Trend Incidence Rate (Per 100,000 Male Population) of New Cases of Non-Hodgkin Lymphomas, Male, Iraq from 2011–2016

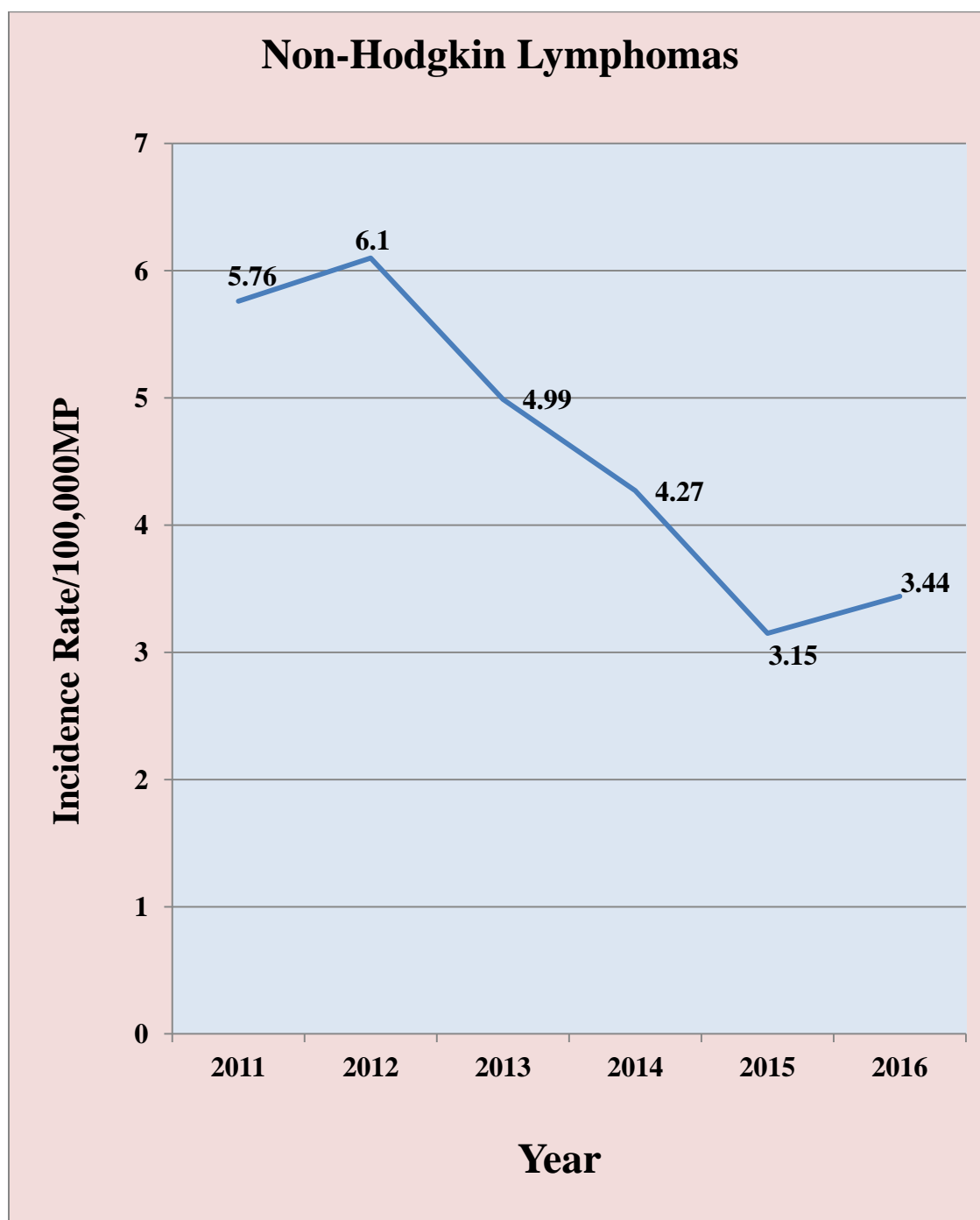


Figure No.; (17) Trend Incidence Rate (Per 100,000 Male Population) of New Cases of Skin Cancer, Male, Iraq from 2011–2016

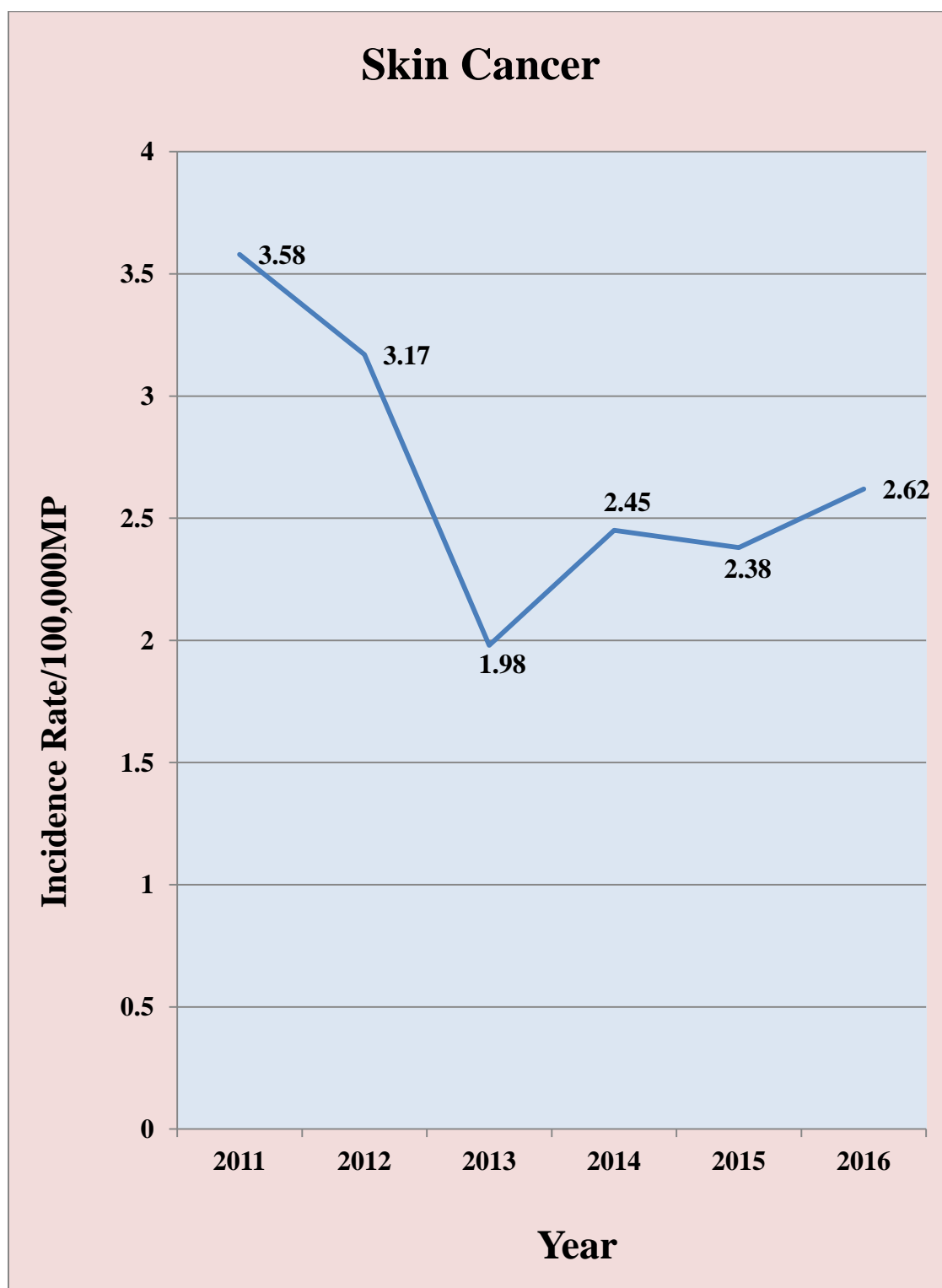


Figure No.; (18) Trend Incidence Rate (Per 100,000 Male Population) of New Cases of Stomach Cancer, Male, Iraq from 2011–2016

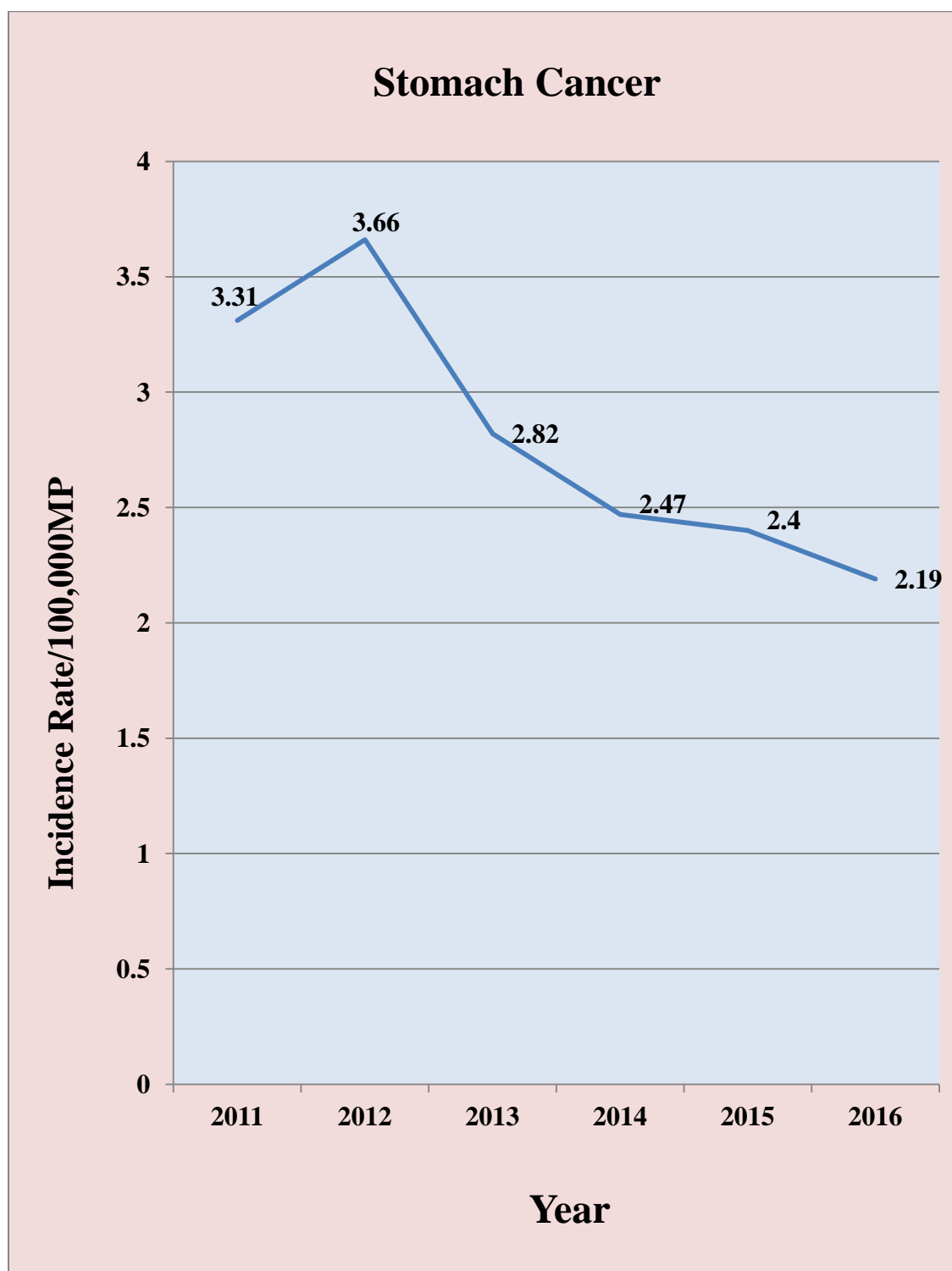
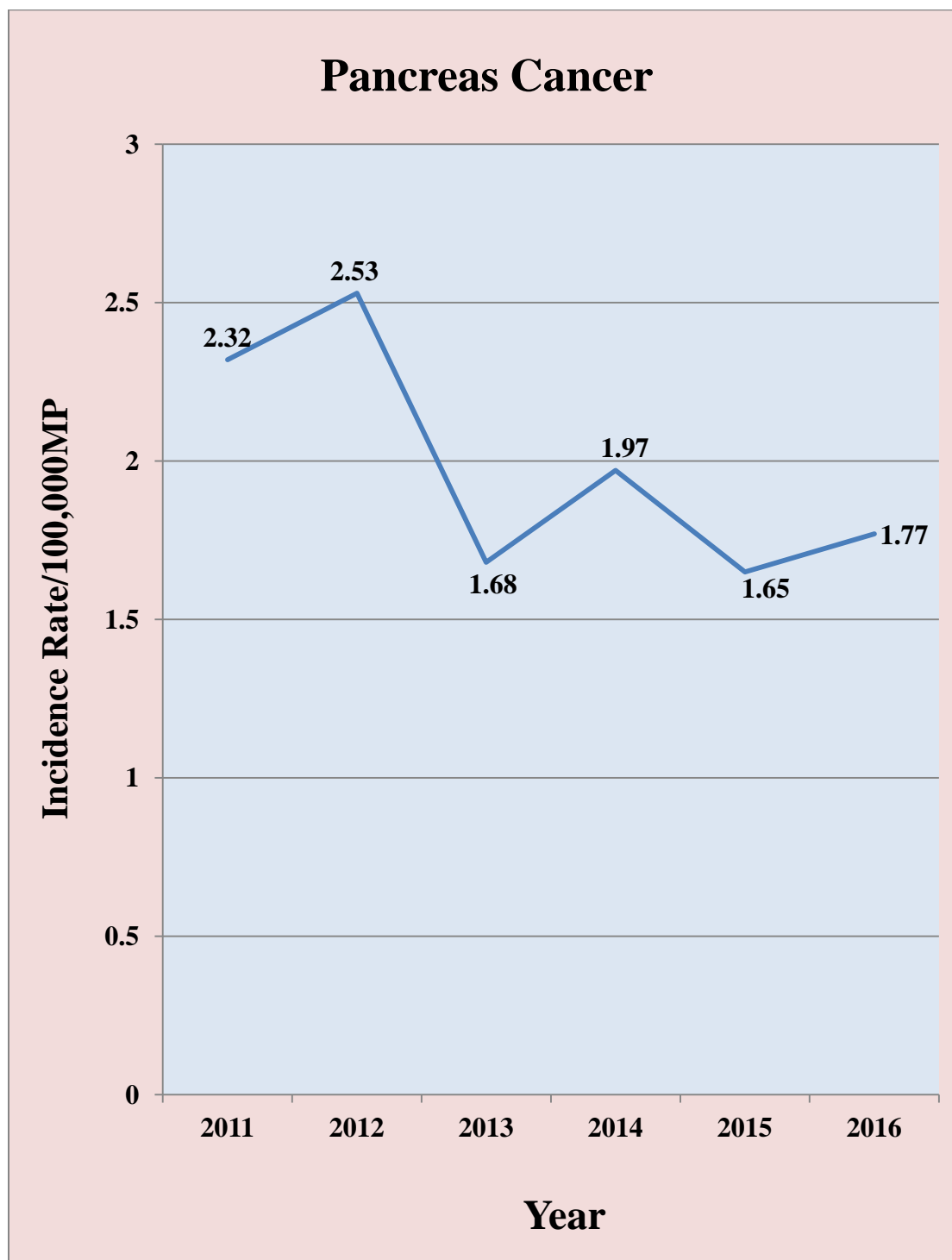


Figure No.; (19) Trend Incidence Rate (Per 100,000 Male Population) of New Cases of Skin Cancer, Male, Iraq from 2011–2016



Figures No.; (20-29) shows the trend incidence rate of top ten cancers in female it shows that the trend incidence of the all top ten cancers decreased for the last 6 years (2011-2016), except the trend incidence of the thyroid gland cancer increased.

Figure No.; (20) Trend Incidence Rate (Per 100,000 Female Population) of New Cases of Breast Cancer, Female, Iraq from 2011–2016

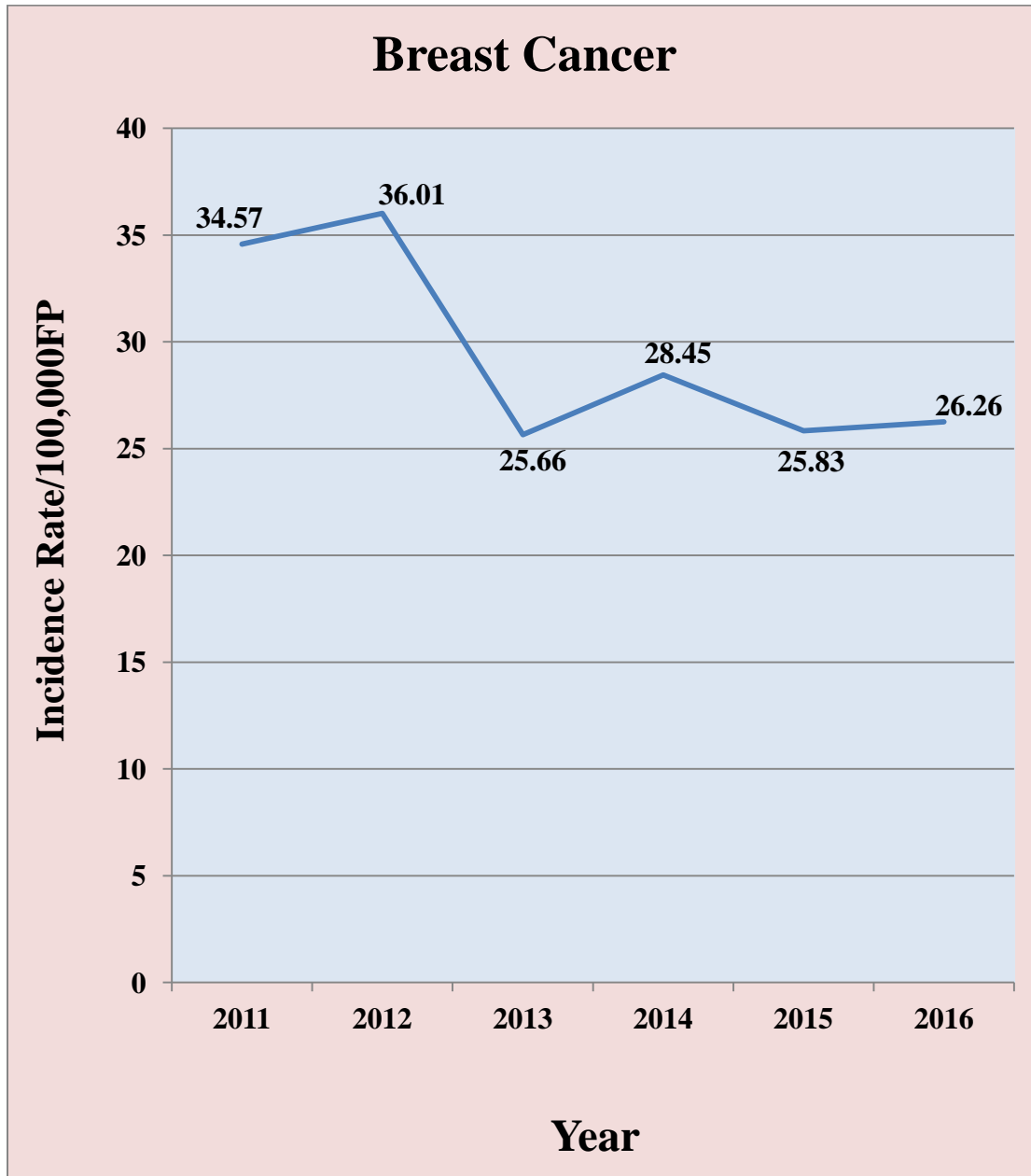


Figure No.; (21) Trend Incidence Rate (Per 100,000 Female Population) of New Cases of Thyroid Gland Cancer, Female, Iraq from 2011–2016

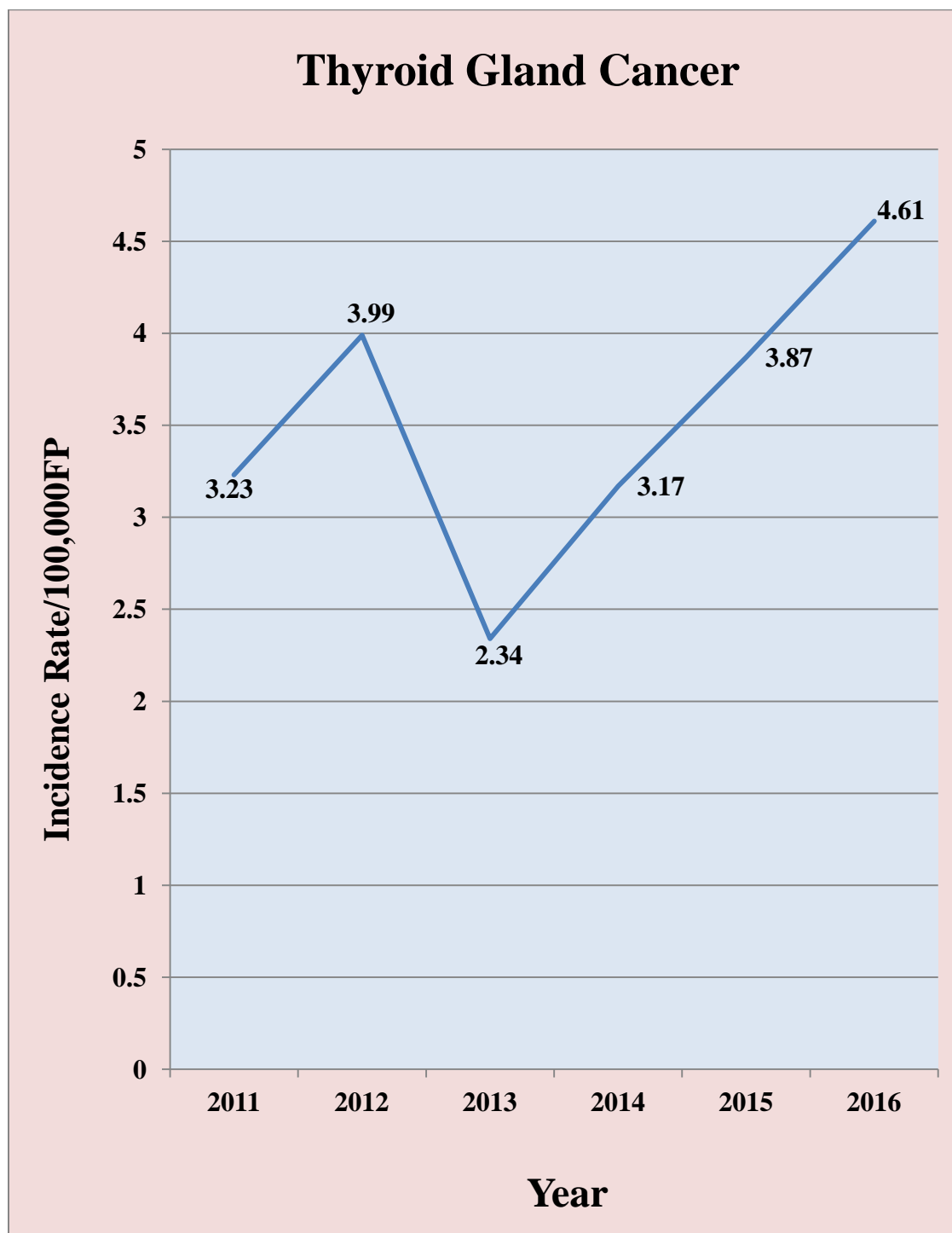


Figure No.; (22) Trend Incidence Rate (Per 100,000 Female Population) of New Cases of Colorectal Cancer, Female, Iraq from 2011–2016

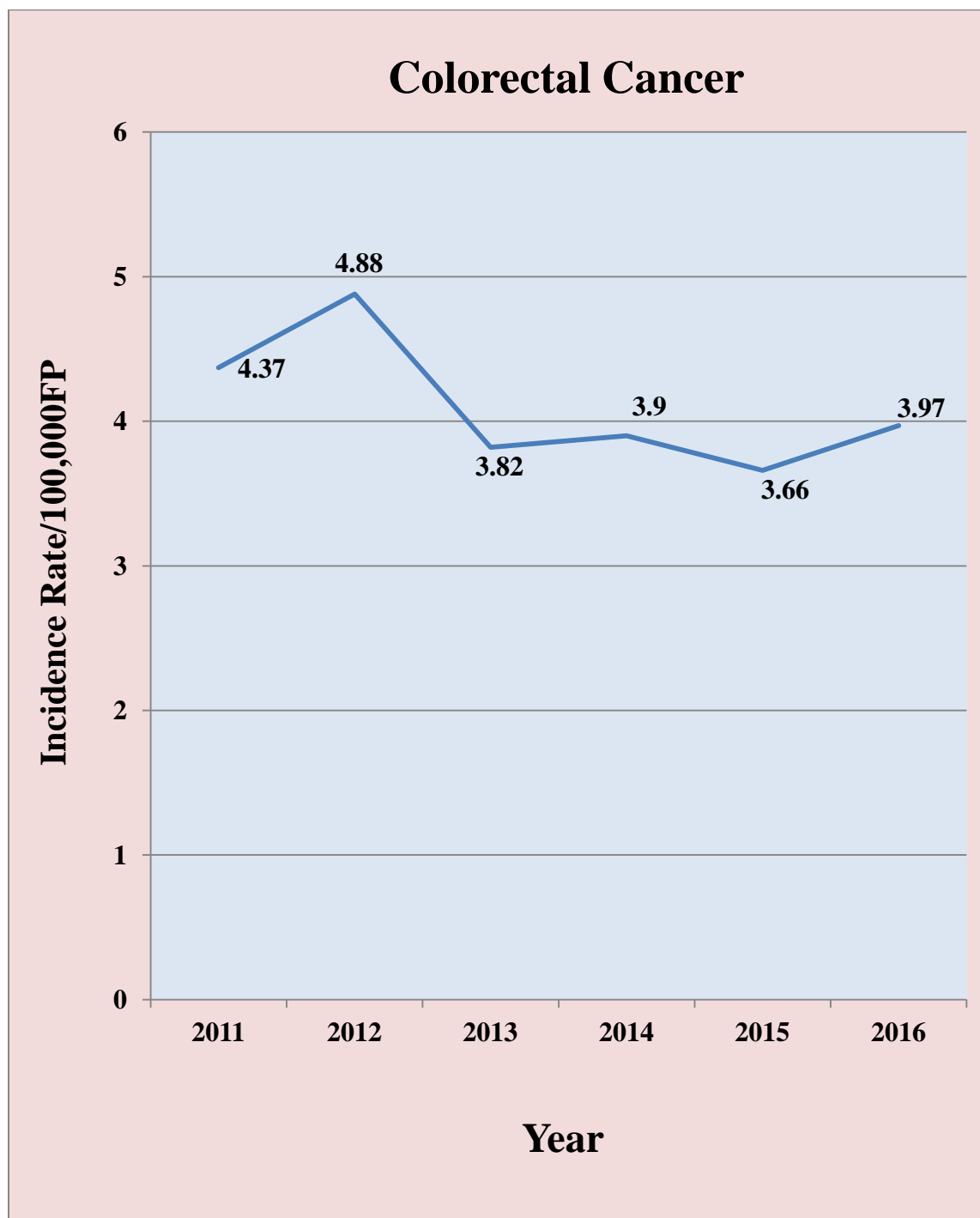


Figure No.; (23) Trend Incidence Rate (Per 100,000 Female Population) of New Cases of Leukemia Cancer, Female, Iraq from 2011–2016

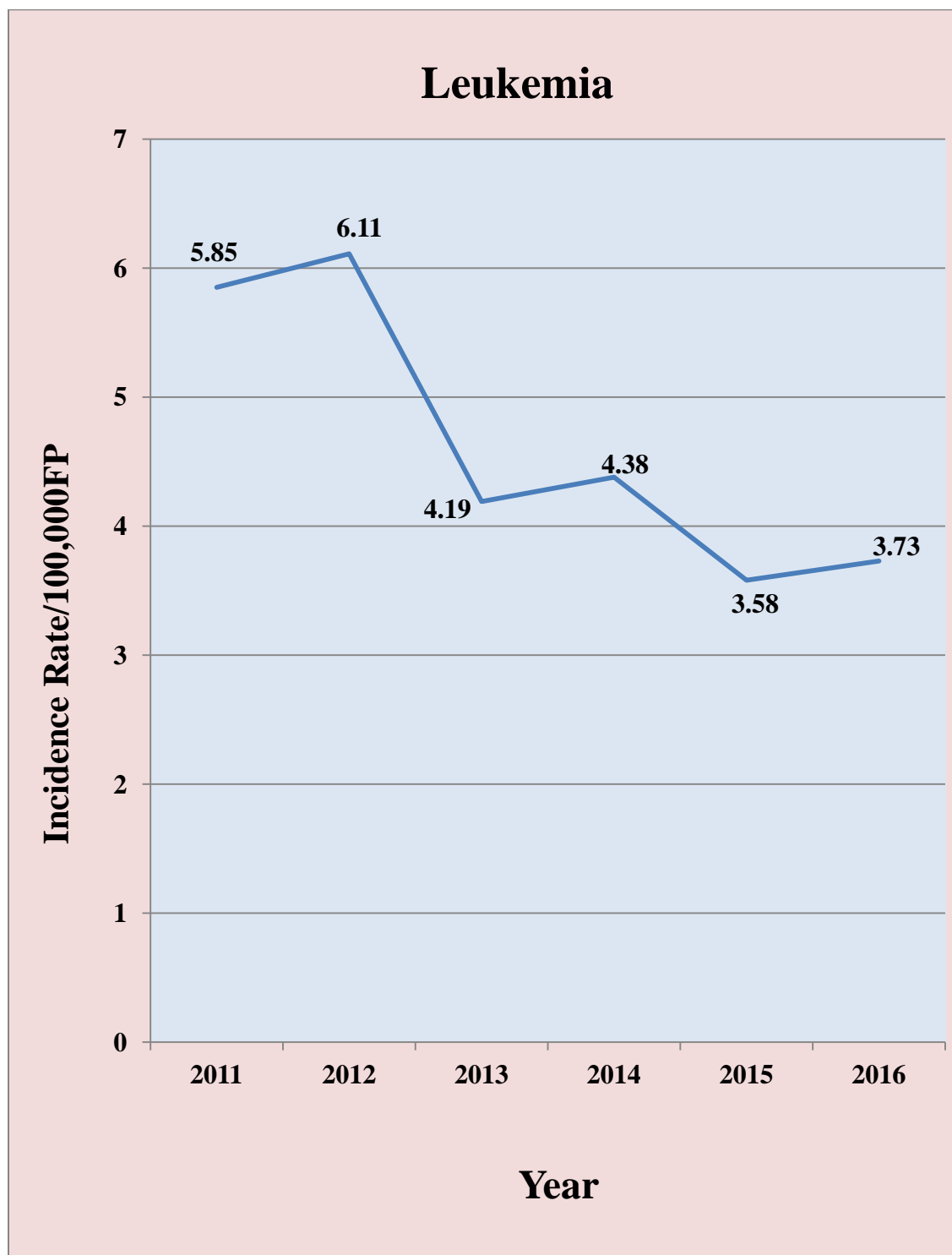


Figure No.; (24) Trend Incidence Rate (Per 100,000 Female Population) of New Cases of Bronchus & Lung Cancer, Female, Iraq from 2011–2016

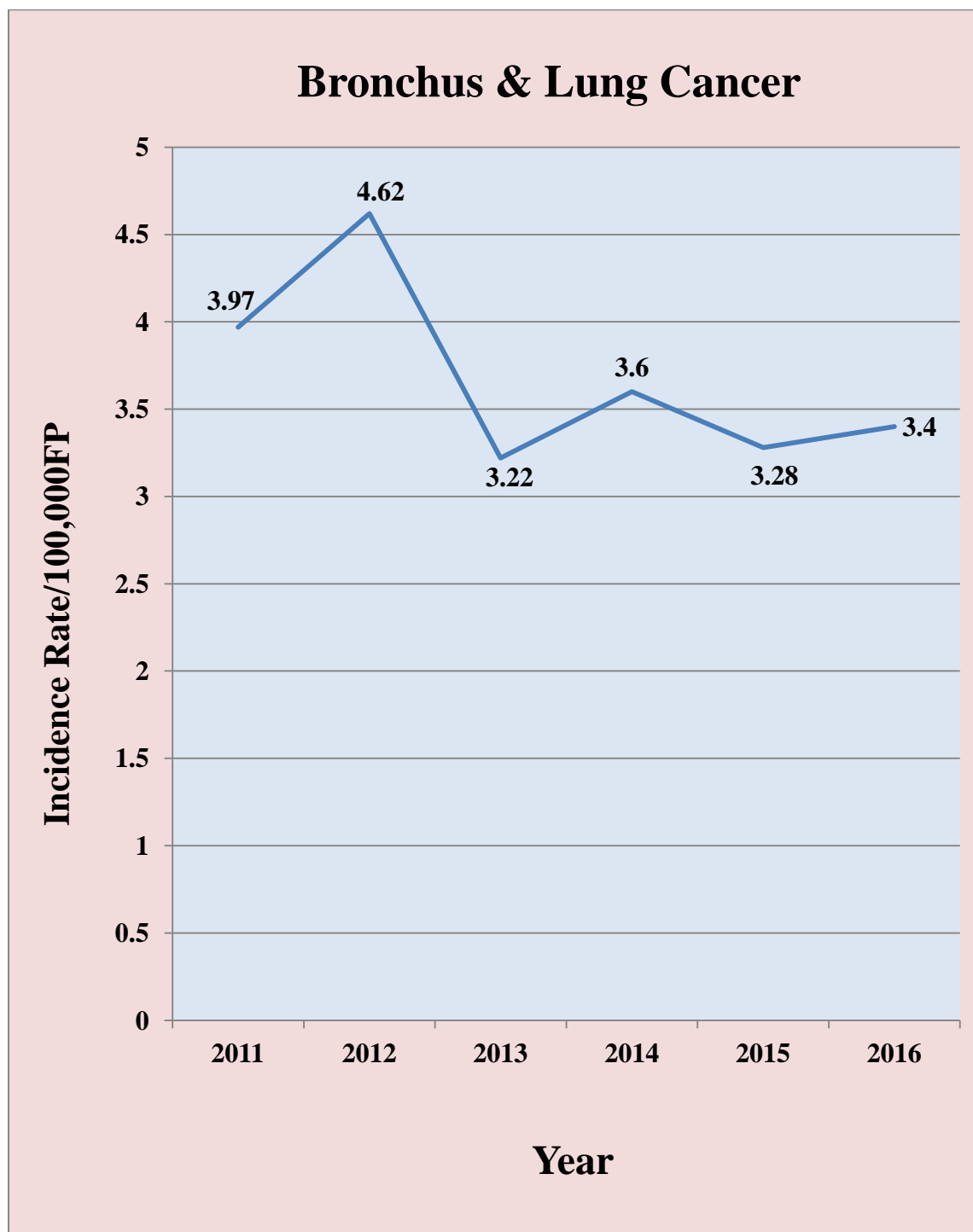


Figure No.; (25) Trend Incidence Rate (Per 100,000 Female Population) of New Cases of Brain & other CNS Tumor, Female, Iraq from 2011–2016

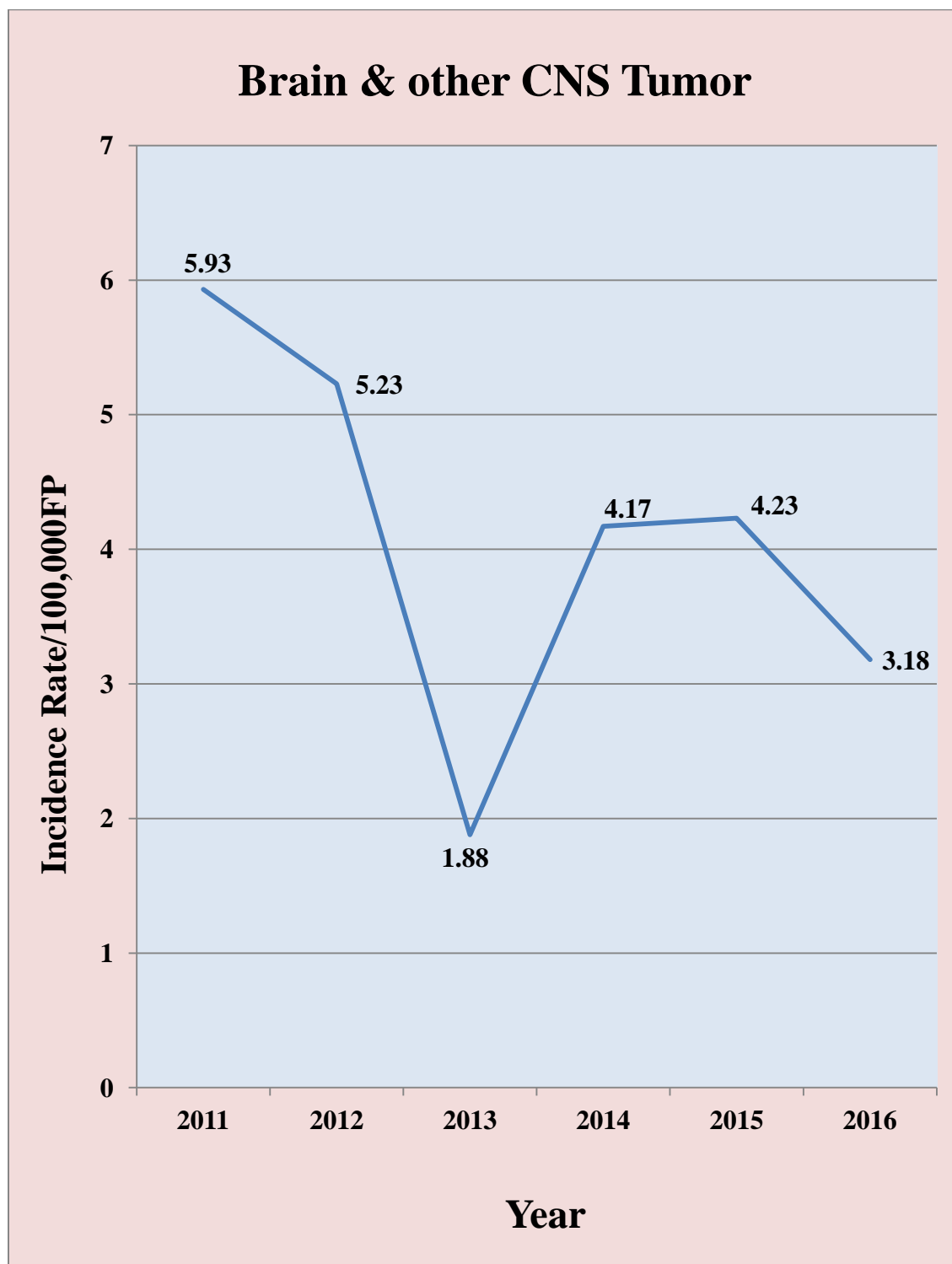


Figure No.; (26) Trend Incidence Rate (Per 100,000 Female Population) of New Cases of Ovary Cancer, Female, Iraq from 2011–2016

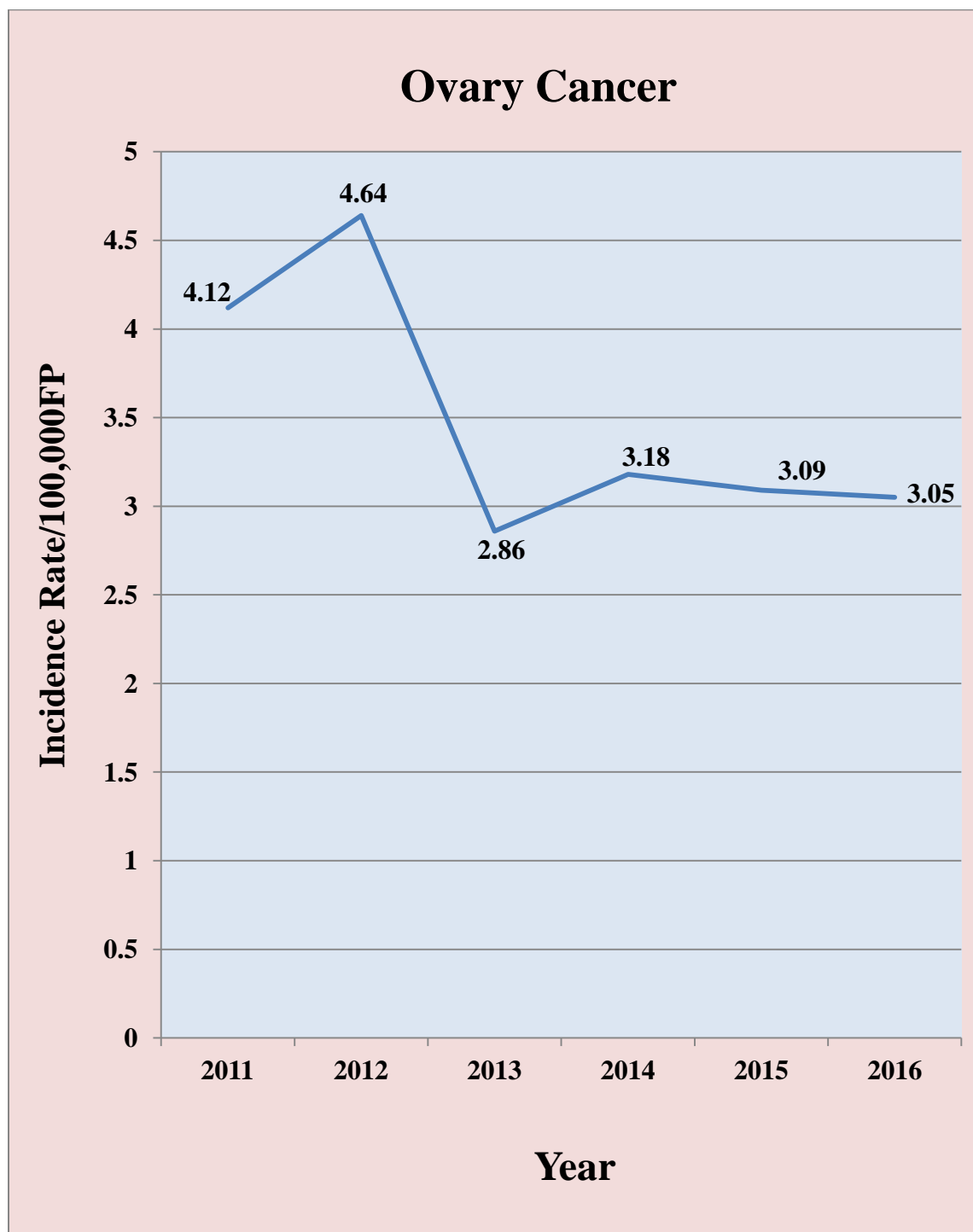


Figure No.; (27) Trend Incidence Rate (Per 100,000 Female Population) of New Cases of Non- Hodgkin Lymphoma, Female, Iraq from 2011–2016

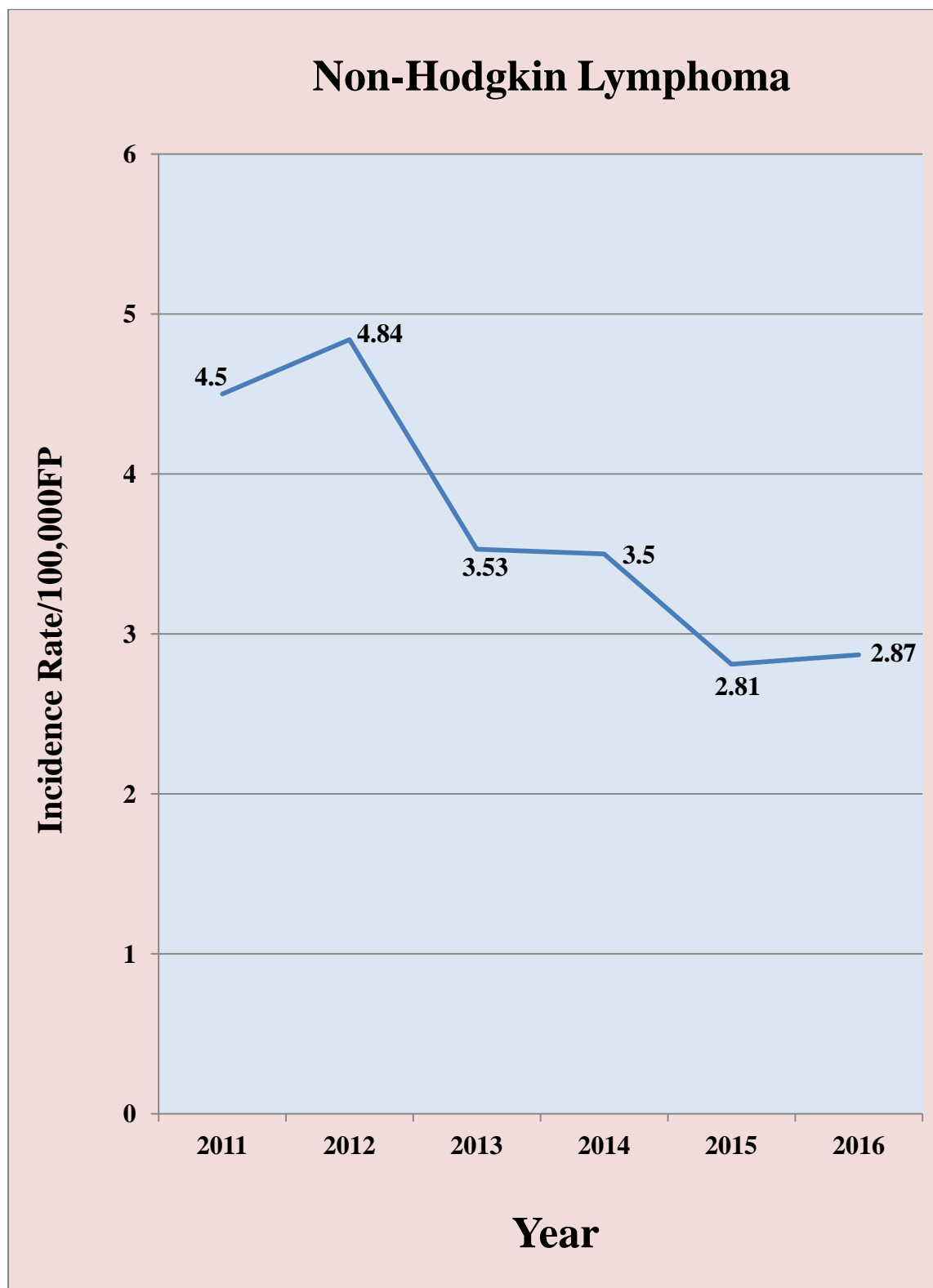


Figure No.; (28) Trend Incidence Rate (Per 100,000 Female Population) of New Cases of Skin Cancer, Female, Iraq, from 2011–2016

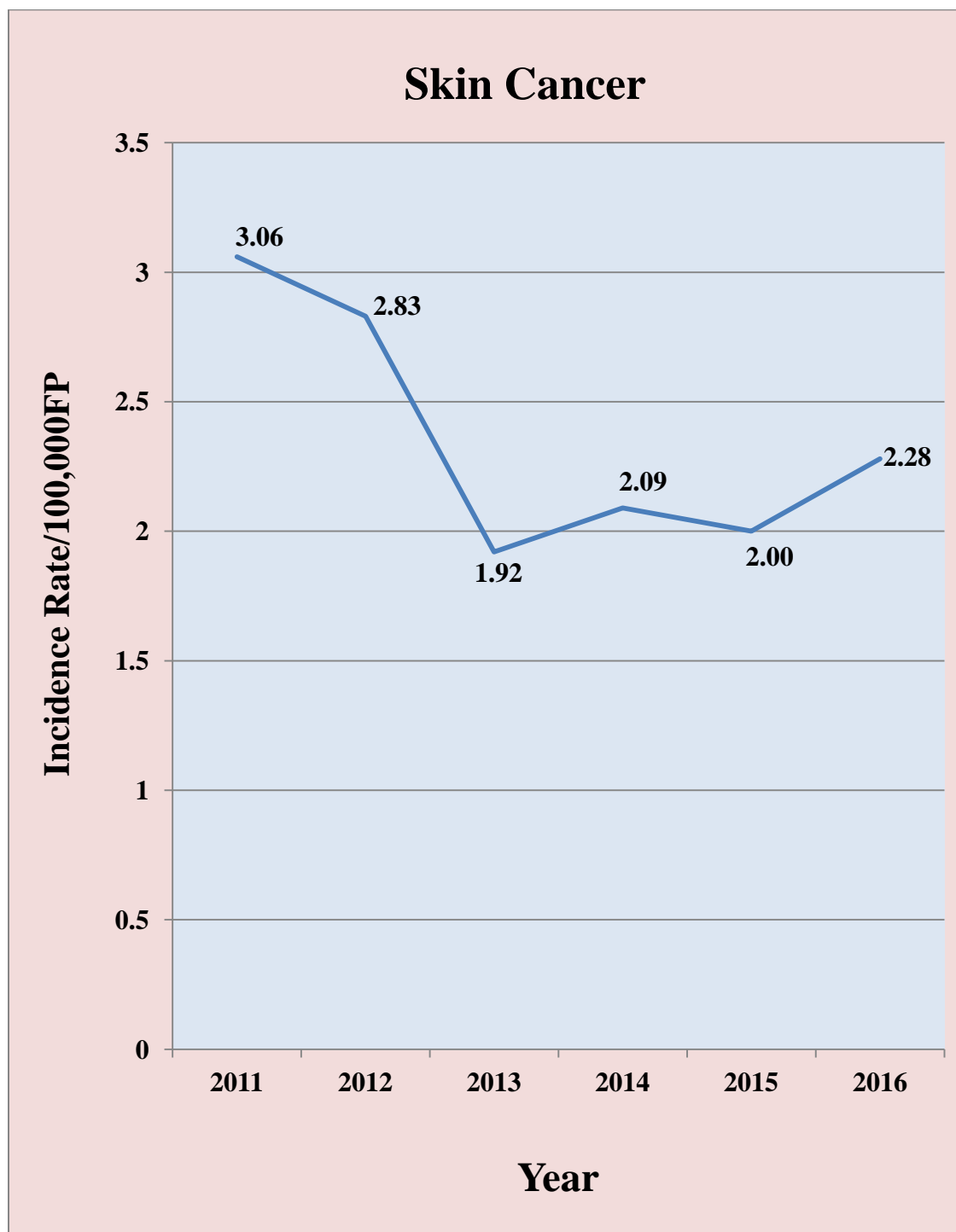
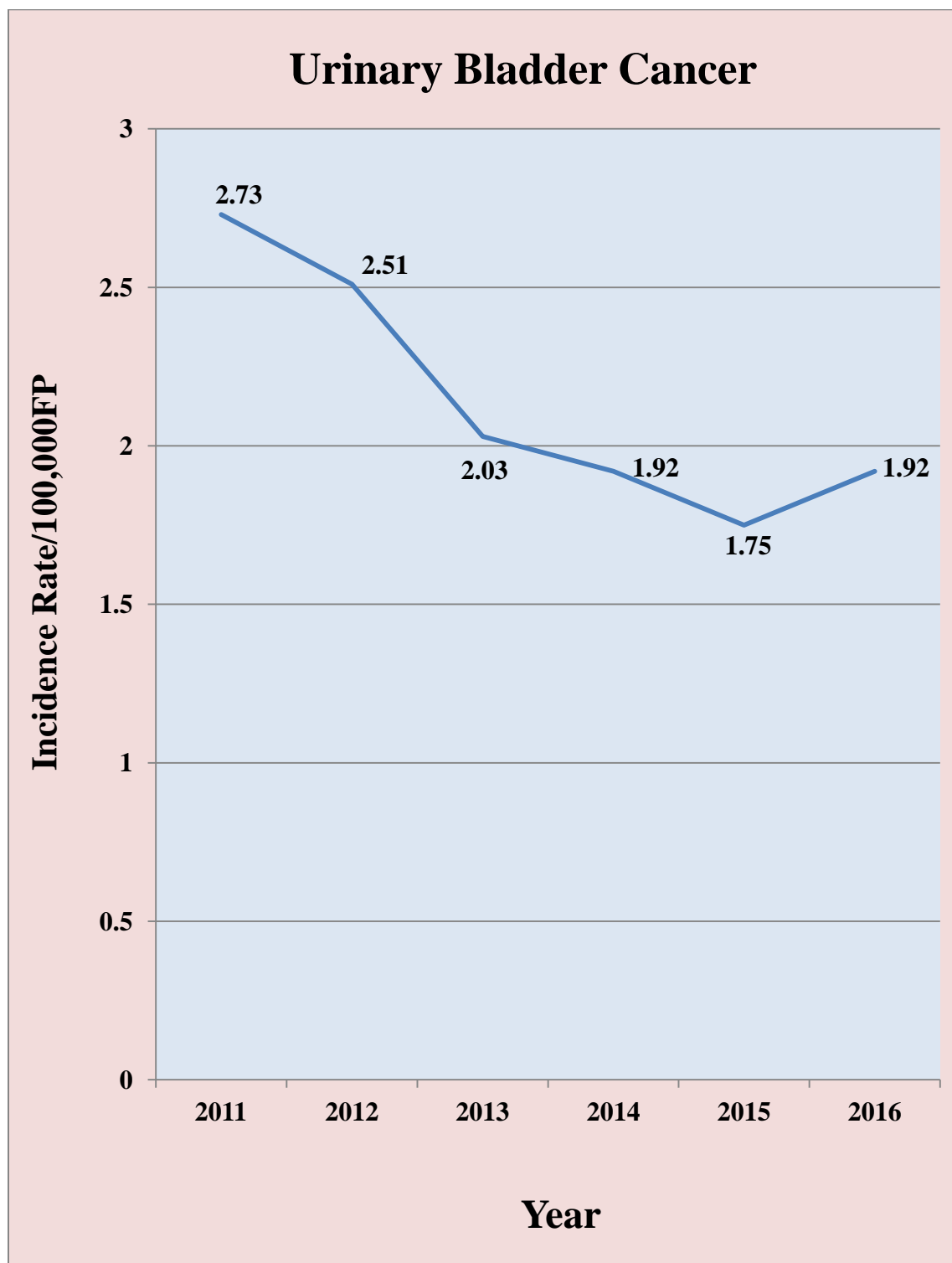


Figure No.; (29) Trend Incidence Rate (Per 100,000 Female Population) of New Cases of Urinary Bladder Cancer, Female, Iraq from 2011–2016



3.3.5. Number of top ten cancer in both gender by age group in 2016

Table No.; (16) Number of Top Ten Cancer by Age Group in Male, Iraq, 2016

Top ten	0-4Y	5-9Y	10-14Y	15-19Y	20-24Y	25-29Y	30-34Y	35-39Y	40-44Y	45-49Y	50-54Y	55-59Y	60-64Y	65-69Y	70+Y	Unkno wn	Total
Bronchus & lung	0	0	0	0	6	7	9	16	27	66	107	107	279	281	580	0	1,485
Urinary bladder	3	2	3	4	4	5	8	21	41	59	83	101	162	167	393	3	1,059
Leukemia	127	90	56	64	52	39	52	48	39	35	60	55	74	58	108	1	958
Prostate	0	0	0	0	0	0	0	1	9	10	23	35	111	165	437	0	791
Colorectal	0	0	0	1	15	22	24	39	60	72	79	83	109	81	174	1	760
Brain & other CNS	51	53	54	27	22	40	43	39	41	63	58	34	65	40	54	0	684
Non-Hodgkin's lymphoma	42	42	24	20	25	27	26	32	35	44	65	50	77	54	95	0	658
Skin	1	6	5	2	11	10	5	17	22	37	36	37	74	81	156	1	501
stomach	1	0	1	1	2	5	8	18	34	48	43	33	63	61	101	1	420
Pancreas	0	0	0	0	2	0	6	9	15	24	50	30	63	46	94	0	339
Total	225	193	143	119	139	155	181	240	323	458	604	565	1,077	1,034	2,192	7	7,655

Table No.; (17) Number of Top Ten Cancer by Age Group in Female, Iraq, 2016

Top ten	0-4Y	5-9Y	10-14Y	15-19Y	20-24Y	25-29Y	30-34Y	35-39Y	40-44Y	45-49Y	50-54Y	55-59Y	60-64Y	65-69Y	70+Y	Un known	Total
Breast	0	0	0	0	26	97	253	452	689	799	814	588	512	295	384	13	4,922
Thyroid gland	0	0	7	19	57	106	143	117	98	97	69	35	46	22	48	0	864
colorectal	0	0	0	0	14	30	22	45	52	76	85	82	102	92	145	0	745
Leukemia	93	59	42	35	28	28	27	30	36	43	46	32	59	50	91	0	699
Bronchus & lung	0	0	0	0	8	8	8	11	12	23	61	56	100	119	230	2	638
Brain & other CNS	35	59	35	22	31	29	36	30	48	47	52	32	38	44	59	0	597
Ovary	4	4	9	13	25	31	23	27	52	61	64	59	79	47	72	1	571
Non-Hodgkin's lymphoma	26	15	12	21	23	21	31	42	28	43	48	47	52	48	81	0	538
Skin	6	1	5	6	8	9	14	8	19	26	43	40	78	40	118	7	428
Urinary bladder	0	1	0	3	2	2	1	10	7	15	24	26	63	57	149	0	360
Total	164	139	110	119	222	361	558	772	1,041	1,230	1,306	997	1,129	814	1,377	23	10,362

3.3.6. Incidence rate of top ten cancers in both genders by age group in 2016:

Table No.; (18) Incidence Rate (Per 100,000 Male Populations) of Top Ten Cancer by Age Group in Male, Iraq, 2016

Top Ten	0-4Y	5-9Y	10-14Y	15-19Y	20-24Y	25-29Y	30-34Y	35-39Y	40-44Y	45-49Y	50-54Y	55-59Y	60-64Y	65-69Y	70+Y
Bronchus & Lung	0.00	0.00	0.00	0.00	0.34	0.46	0.70	1.46	2.94	8.78	18.34	23.63	83.93	118.95	180.38
Urinary Bladder	0.10	0.08	0.13	0.20	0.23	0.33	0.62	1.92	4.47	7.85	14.23	22.31	48.73	70.69	122.22
Leukemia	4.37	3.45	2.41	3.13	2.95	2.57	4.04	4.39	4.25	4.65	10.28	12.15	22.26	24.55	33.59
Prostate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.98	1.33	3.94	7.73	33.39	69.84	135.91
Colorectal	0.00	0.00	0.00	0.05	0.85	1.45	1.86	3.57	6.54	9.57	13.54	18.33	32.79	34.29	54.11
Brain& other CNS	1.76	2.03	2.33	1.32	1.25	2.63	3.34	3.57	4.47	8.38	9.94	7.51	19.55	16.93	16.79
Non-Hodgkin's Lymphoma	1.45	1.61	1.03	0.98	1.42	1.78	2.02	2.93	3.82	5.85	11.14	11.04	23.16	22.86	29.55
Skin	0.03	0.23	0.22	0.10	0.62	0.66	0.39	1.55	2.40	4.92	6.17	8.17	22.26	34.29	48.52
stomach	0.03	0.00	0.04	0.05	0.11	0.33	0.62	1.65	3.71	6.38	7.37	7.29	18.95	25.82	31.41
Pancreas	0.00	0.00	0.00	0.00	0.11	0.00	0.47	0.82	1.64	3.19	8.57	6.63	18.95	19.47	29.23

Table No.; (19) Incidence Rate (Per 100,000 Female Population) of Top Ten Cancer by Age Group in Female, Iraq, 201

Top Ten	0-4Y	5-9Y	10-14Y	15-19Y	20-24Y	25-29Y	30-34Y	35-39Y	40-44Y	45-49Y	50-54Y	55-59Y	60-64Y	65-69Y	70+Y
Breast	0.00	0.00	0.00	0.00	1.55	6.59	19.72	40.67	72.47	100.78	129.72	119.23	140.03	113.27	100.51
Thyroid gland	0.00	0.00	0.32	0.98	3.40	7.20	11.15	10.53	10.31	12.24	11.00	7.10	12.58	8.45	12.56
colorectal	0.00	0.00	0.00	0.00	0.83	2.04	1.72	4.05	5.47	9.59	13.55	16.63	27.90	35.32	37.95
Leukemia	3.38	2.40	1.92	1.81	1.67	1.90	2.10	2.70	3.79	5.42	7.33	6.49	16.14	19.20	23.82
Bronchus & lung	0.00	0.00	0.00	0.00	0.48	0.54	0.62	0.99	1.26	2.90	9.72	11.35	27.35	45.69	60.20
Brain & other CNS	1.27	2.40	1.60	1.14	1.85	1.97	2.81	2.70	5.05	5.93	8.29	6.49	10.39	16.89	15.44
Ovary	0.15	0.16	0.41	0.67	1.49	2.11	1.79	2.43	5.47	7.69	10.20	11.96	21.61	18.05	18.85
Non-Hodgkin's lymphoma	0.95	0.61	0.55	1.09	1.37	1.43	2.42	3.78	2.94	5.42	7.65	9.53	14.22	18.43	21.20
Skin	0.22	0.04	0.23	0.31	0.48	0.61	1.09	0.72	2.00	3.28	6.85	8.11	21.33	15.36	30.89
Urinary bladder	0.00	0.04	0.00	0.16	0.12	0.14	0.08	0.90	0.74	1.89	3.82	5.27	17.23	21.89	39.00

3.3.7. Distribution and the trend incidence rate of new cases of cancer in each provinces and the distribution of new cases of cancer by each district of province in 2016:

Table No.; (20) Distribution of Top Ten Cancer in Male, Kerbala, Iraq, 2016

Top ten cancer	No.	%
Bronchus & lung	76	12.88
Urinary bladder	73	12.37
Leukemia*	52	8.81
Prostate	46	7.80
Brain & other CNS **	36	6.10
Colorectal	36	6.10
Hodgkin's disease	27	4.58
Non-Hodgkin's lymphoma***	25	4.24
Kidney	23	3.90
Stomach	22	3.73
Total other site cancer	174	29.49
Total cancers in Kerbala	590	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's)

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord)

*** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (30) Incidence Rate (Per 100,000MP) of Top Ten Cases in Male, Kerbala, Iraq, 2016

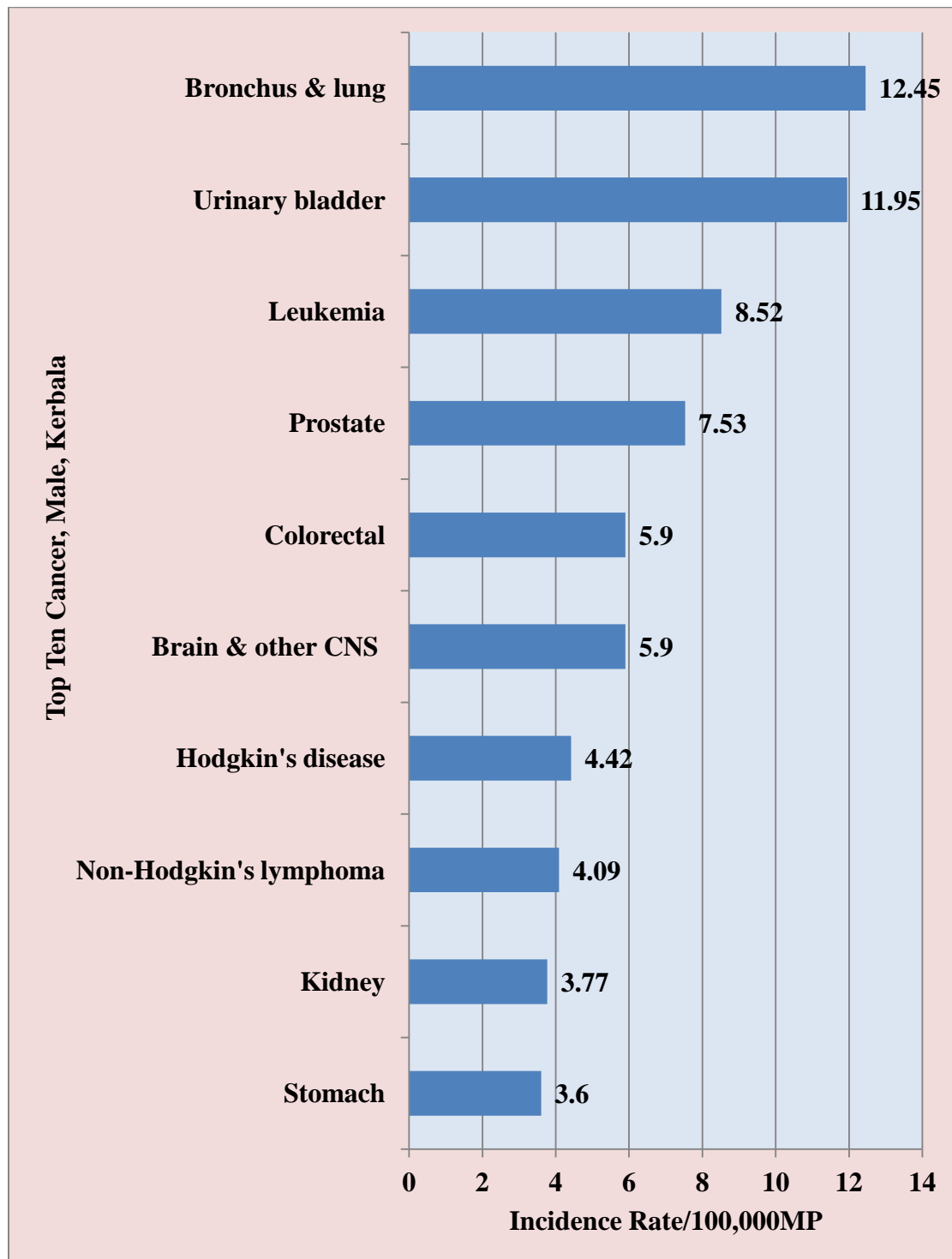


Table No.; (21) Distribution of Top Ten Cancer in Female, Kerbala, Iraq, 2016

Top ten cancer	No.	%
Breast	234	31.71
Bronchus & lung	45	6.10
Ovary	34	4.61
Urinary bladder	33	4.47
Brain & other CNS *	38	5.16
Colorectal	33	4.48
Uterus	28	3.79
Non-Hodgkin's lymphoma**	28	3.79
Skin	25	3.39
Thyroid gland	25	3.39
Total other site cancer	215	29.11
Total cancers in Kerbala	738	100.00%

*Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord)

** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (31) Incidence Rate (Per 100,000FP) of Top Ten Cases in Female, Kerbala, Iraq, 2016

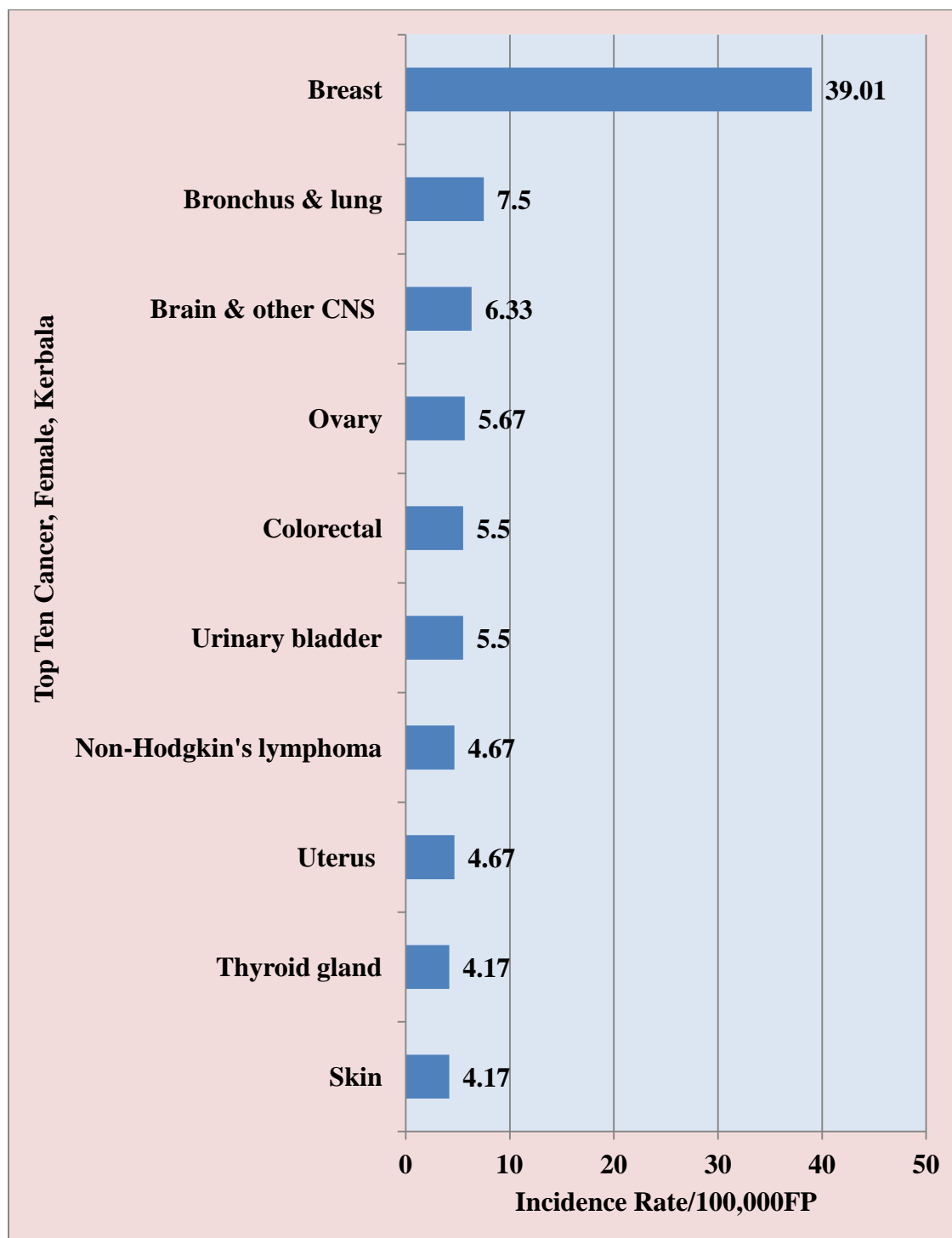


Table No.; (22) Distribution of Top Ten Cancer by Districts in Male, Kerbala, Iraq, 2016

Top ten	Kerbala		Ain-Tamour		Hindia		Total	
	N.	%	N.	%	N.	%	N.	%
Bronchus & lung	57	16.91	2	20	17	24.64	76	18.27
Urinary bladder	59	17.51	3	30	11	15.94	73	17.55
Leukemia	39	11.57	3	30	10	14.49	52	12.50
Prostate	38	11.28	1	10	7	10.14	46	11.06
Brain & other CNS	32	9.50	0	0	4	5.80	36	8.65
colorectal	32	9.50	0	0	4	5.80	36	8.65
Hodgkin's disease	22	6.53	0	0	5	7.25	27	6.49
Non-Hodgkin's lymphoma	18	5.34	1	10	6	8.70	25	6.01
Kidney	21	6.23	0	0	2	2.90	23	5.53
stomach	19	5.64	0	0	3	4.35	22	5.29
Total	337	100.00	10	100.00	69	100.00	416	100.00

Table No.; (23) Distribution of Top Ten Cancer by Districts in Female, Kerbala, Iraq, 2016

Top ten	Kerbala		Ain-Tamour		Hindia		Total	
	N.	%	N.	%			N.	%
Breast	208	46.64	2	28.57	24	34.29	234	44.74
Bronchus & lung	33	7.40	1	14.29	11	15.71	45	8.60
Brain & other CNS	32	7.17	3	42.86	3	4.29	38	7.27
Ovary	29	6.50	0	0.00	5	7.14	34	6.50
Urinary bladder	28	6.28	0	0.00	5	7.14	33	6.31
colorectal	26	5.83	0	0.00	7	10.00	33	6.31
Uterus	25	5.61	0	0.00	3	4.29	28	5.35
Non-Hodgkin's lymphoma	23	5.16	0	0.00	5	7.14	28	5.35
Skin	22	4.93	1	14.29	2	2.86	25	4.78
Thyroid Gland	20	4.48	0	0.00	5	7.14	25	4.78
Total	446	100.00	7	100.00	70	100.00	523	100.00

Table No.; (24) Distribution of Top Ten Cancer in Male, Baghdad, Iraq, 2016

Top ten cancer	No.	%
Bronchus & lung	358	12.48
Urinary bladder	243	8.47
Colorectal	231	8.05
Prostate	213	7.42
Brain & other CNS*	209	7.28
Leukemia**	184	6.41
Non-Hodgkin's lymphoma***	164	5.72
Stomach	115	4.01
Skin	112	3.90
Pancreas	109	3.79
Total other site cancer	931	32.47
Total cancers in Baghdad	2,869	100.00%

*Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord)

**Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's)

*** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (32) Incidence Rate (Per 100,000MP) of Top Ten Cases in Male, Baghdad, Iraq, 2016

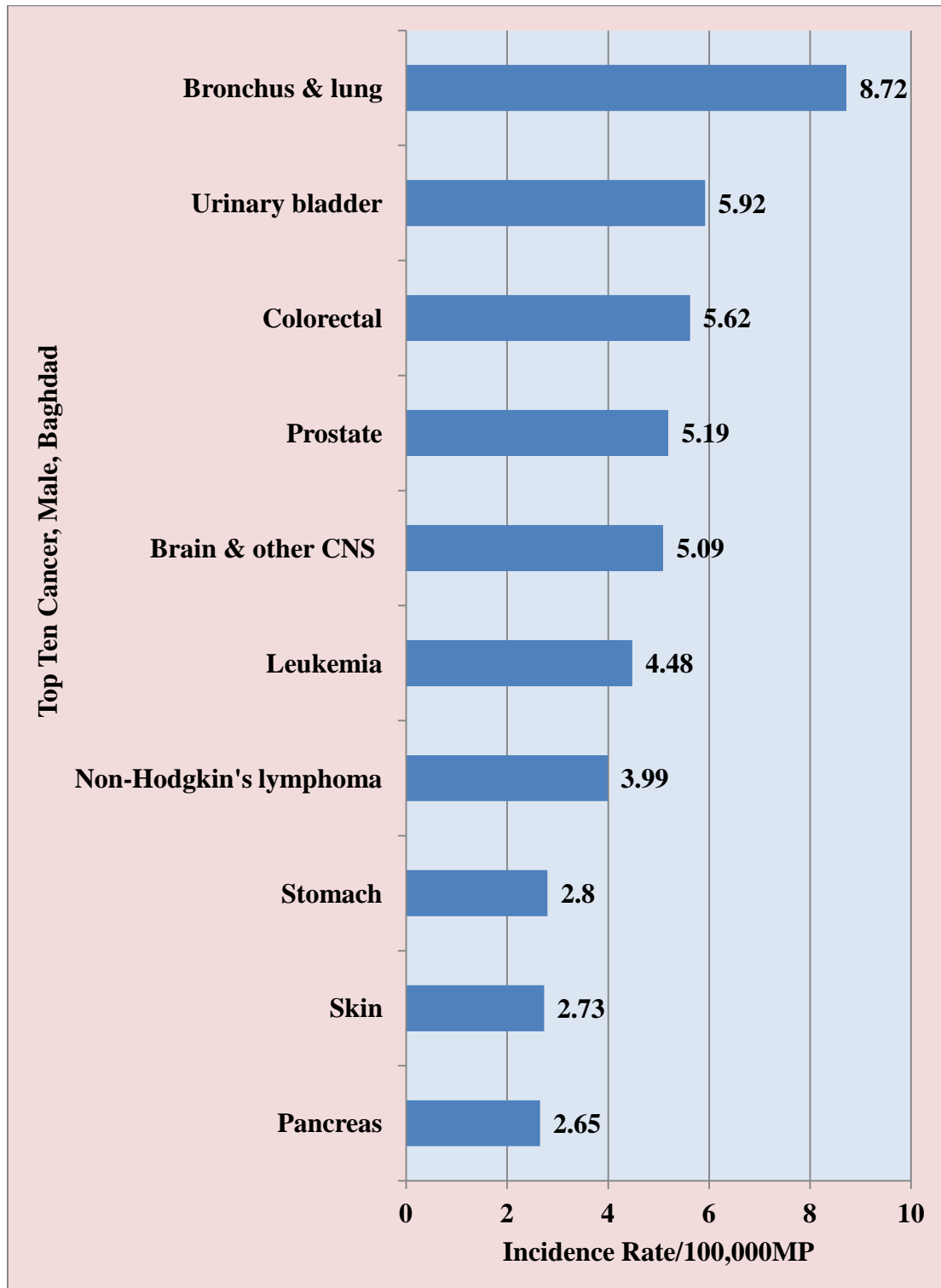


Table No.; (25) Distribution of Top Ten Cancer in Female, Baghdad, Iraq, 2016

Top ten cancer	No.	%
Breast	1661	37.42
Thyroid gland	305	6.87
Colorectal	208	4.68
Brain & other CNS *	200	4.50
Leukemia**	176	3.96
Non-Hodgkin's Lymphoma***	174	3.92
Bronchus & lung	173	3.90
Ovary	156	3.51
Corpus uteri	124	2.79
Uterus	110	2.48
Total other site cancer	1,152	25.97
Total cancers in Baghdad	4,439	100.00%

*Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord)

**Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's)

*** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (33) Incidence Rate (Per 100,000FP) of Top Ten Cases in Female, Baghdad, Iraq, 2016

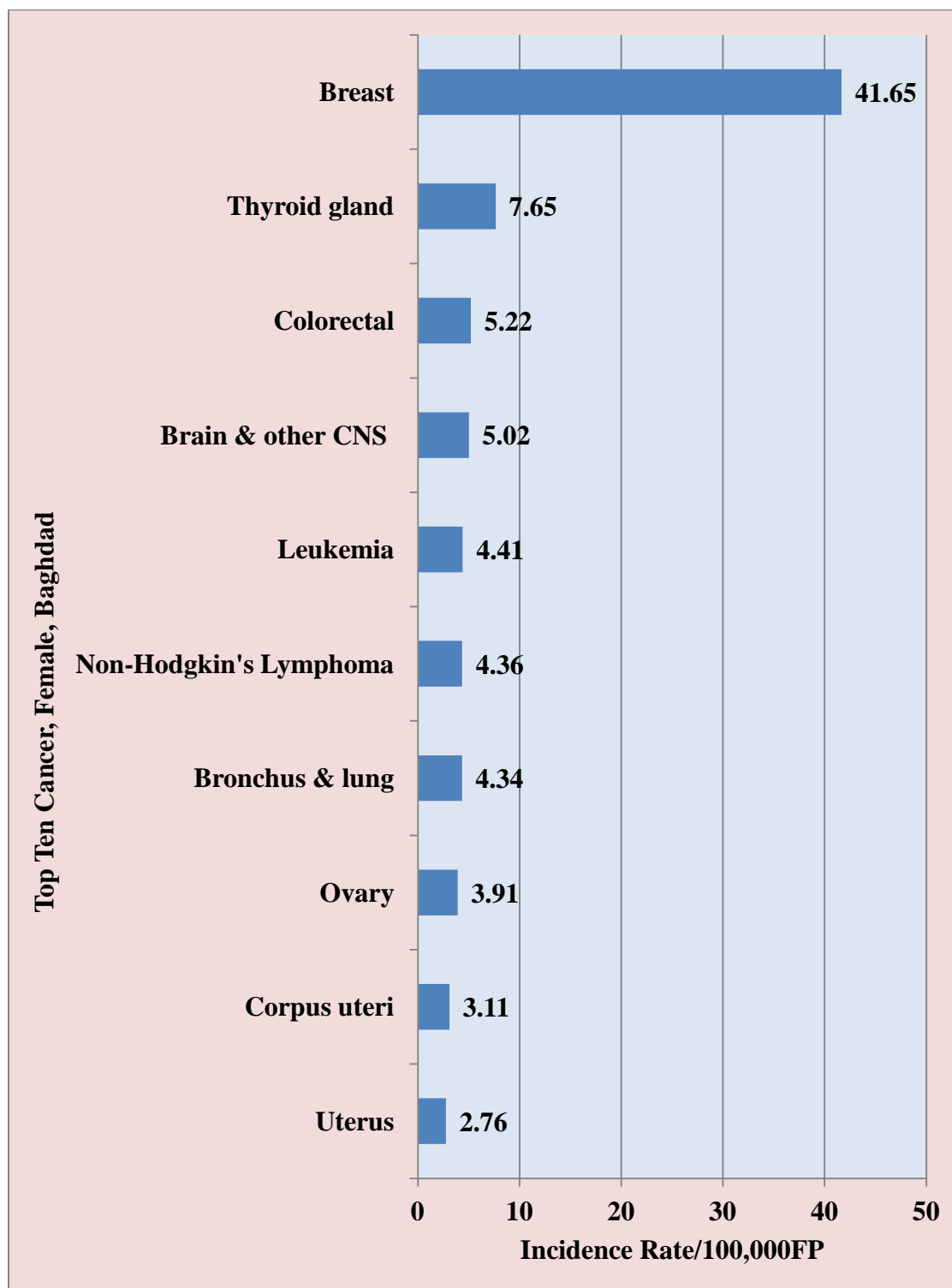


Table No.; (26) Distribution of Top Ten Cancer by Districts in Male, Baghdad, Iraq, 2016

Top ten	Rusafa		Addhamiya		Sader		Karhk		Kadimya		Mahmodia		Abu-Grape		Madigan		Tarmeyeh		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Bronchus & lung	90	16.22	57	20.96	70	21.88	76	17.35	35	18.42	10	14.93	3	11.54	17	25.76	0	0.00	358	18.47
Urinary bladder	72	12.97	20	7.35	40	12.50	50	11.42	35	18.42	11	16.42	5	19.23	9	13.64	1	25.00	243	12.54
colorectal	69	12.43	51	18.75	29	9.06	51	11.64	19	10.00	1	1.49	2	7.69	8	12.12	1	25.00	231	11.92
Prostate	58	10.45	37	13.60	21	6.56	56	12.79	22	11.58	9	13.43	5	19.23	4	6.06	1	25.00	213	10.99
Brain & other CNS	79	14.23	24	8.82	41	12.81	36	8.22	15	7.89	7	10.45	4	15.38	2	3.03	1	25.00	209	10.78
Leukemia	42	7.57	22	8.09	28	8.75	47	10.73	22	11.58	10	14.93	2	7.69	11	16.67	0	0.00	184	9.49
Non-Hodgkin's lymphoma	52	9.37	20	7.35	32	10.00	37	8.45	7	3.68	8	11.94	1	3.85	7	10.61	0	0.00	164	8.46
stomach	32	5.77	18	6.62	20	6.25	27	6.16	12	6.32	3	4.48	0	0.00	3	4.55	0	0.00	115	5.93
Skin	37	6.67	13	4.78	17	5.31	26	5.94	12	6.32	3	4.48	2	7.69	2	3.03	0	0.00	112	5.78
Pancreas	24	4.32	10	3.68	22	6.88	32	7.31	11	5.79	5	7.46	2	7.69	3	4.55	0	0.00	109	5.62
Total	555	100.00	272	100.00	320	100.00	438	100.00	190	100.00	67	100.00	26	100.00	66	100.00	4	100.00	1,938	100.00

Table No.; (27) Distribution of Top Ten Cancer by Districts in Female Baghdad, Iraq, 2016

Top ten	Rusafa		Addhamiya		Sader		Karhk		Kadimya		Mahmodia		Abu-Grape		Madigan		Tarmeyeh		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Breast	482	53.85	231	48.02	238	45.86	400	49.50	175	55.38	45	49.45	36	48.00	45	49.45	9	81.82	1,661	50.53
Thyroid gland	51	5.70	55	11.43	64	12.33	71	8.79	27	8.54	12	13.19	12	16.00	13	14.29	0	0.00	305	9.28
colorectal	57	6.37	27	5.61	36	6.94	64	7.92	17	5.38	2	2.20	3	4.00	2	2.20	0	0.00	208	6.33
Brain & other CNS	58	6.48	34	7.07	43	8.29	38	4.70	14	4.43	4	4.40	2	2.67	7	7.69	0	0.00	200	6.08
Leukemia	40	4.47	21	4.37	39	7.51	47	5.82	16	5.06	6	6.59	3	4.00	4	4.40	0	0.00	176	5.35
Non-Hodgkin's lymphoma	41	4.58	28	5.82	24	4.62	51	6.31	13	4.11	6	6.59	5	6.67	5	5.49	1	9.09	174	5.29
Bronchus & lung	49	5.47	23	4.78	30	5.78	43	5.32	13	4.11	5	5.49	5	6.67	5	5.49	0	0.00	173	5.26
Ovary	52	5.81	22	4.57	18	3.47	32	3.96	18	5.70	5	5.49	3	4.00	5	5.49	1	9.09	156	4.75
Corpus uteri	36	4.02	26	5.41	12	2.31	34	4.21	10	3.16	0	0.00	2	2.67	4	4.40	0	0.00	124	3.77
Uterus	29	3.24	14	2.91	15	2.89	28	3.47	13	4.11	6	6.59	4	5.33	1	1.10	0	0.00	110	3.35
Total	895	100.00	481	100.00	519	100.00	808	100.00	316	100.00	91	100.00	75	100.00	91	100.00	11	100.00	3,287	100.00

Table No.; (28) Distribution of Top Ten Cancer in Male, Najaf, Iraq, 2016

Top ten cancer	No.	%
Bronchus & lung	93	17.10
Urinary bladder	55	10.11
Leukemia*	43	7.90
Prostate	41	7.54
Brain & other CNS **	34	6.25
Non-Hodgkin's lymphoma***	27	4.96
Colorectal	25	4.59
Skin	24	4.41
Pancreas	22	4.04
Liver	18	3.31
Total other site cancer	162	29.79
Total cancers in Najaf	544	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

*** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (34) Incidence Rate (Per 100,000MP) of Top Ten Cases in Male, Najaf, Iraq, 2016

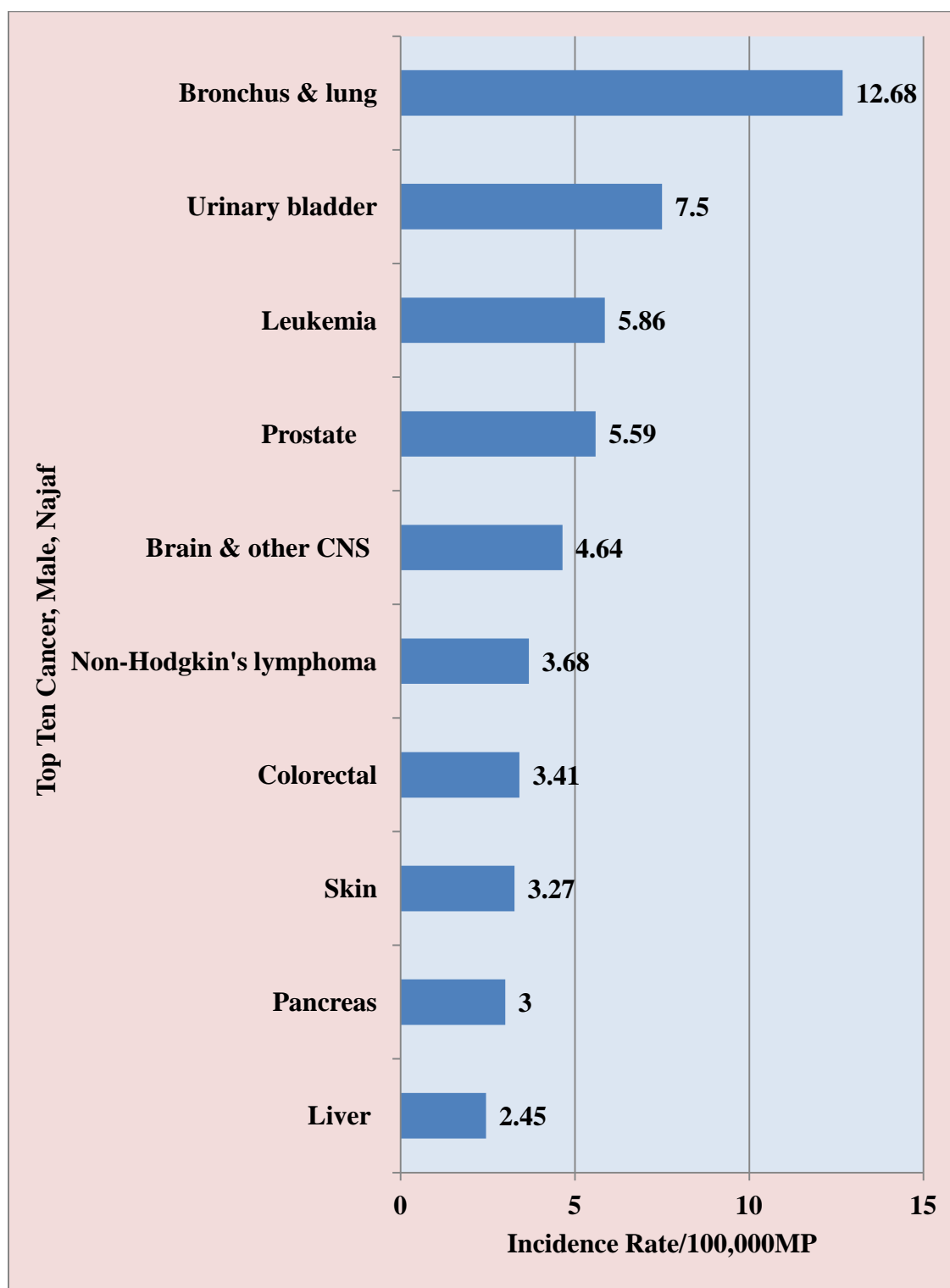


Table No.; (29) Distribution of Top Ten Cancer in Female, Najaf, Iraq, 2016

Top ten cancer	No.	%
Breast	208	33.72
Thyroid gland	52	8.43
Bronchus & lung	50	8.11
Colorectal	38	6.16
Brain & other CNS *	25	4.05
Ovary	25	4.05
Non-Hodgkin's lymphoma**	22	3.56
Urinary bladder	19	3.07
Liver	19	3.07
Uterus	16	2.59
Total other site cancer	143	23.19
Total cancers in Najaf	617	100.00%

*Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (35) Incidence Rate (Per 100,000FP) of Top Ten Cases in Female, Najaf, Iraq, 2016

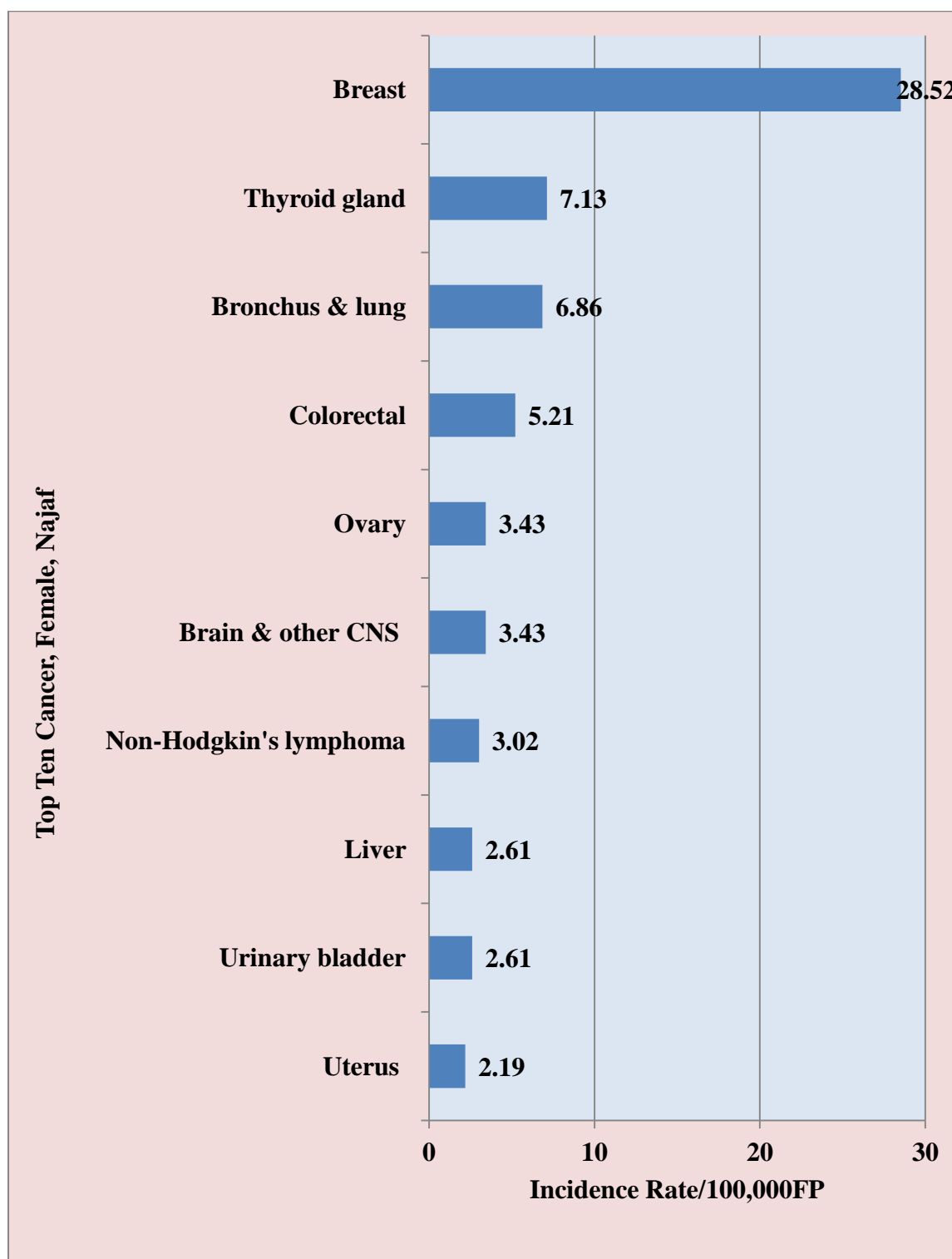


Table No.; (30) Distribution of Top Ten Cancer by Districts in Male, Najaf, Iraq, 2016

Top ten	Najaf		Kufa		Manathera		Total	
	N.	%	N.	%	N.	%	N.	%
Bronchus & lung	53	24.77	26	27.66	14	18.92	93	24.35
Urinary bladder	35	16.36	12	12.77	8	10.81	55	14.40
Leukemia	32	14.95	8	8.51	3	4.05	43	11.26
Prostate	1	0.47	13	13.83	27	36.49	41	10.73
Brain & other CNS	25	11.68	7	7.45	2	2.70	34	8.90
Non-Hodgkin's lymphoma	15	7.01	6	6.38	6	8.11	27	7.07
Colorectal	16	7.48	6	6.38	3	4.05	25	6.54
Skin	18	8.41	4	4.26	2	2.70	24	6.28
Pancreas	11	5.14	7	7.45	4	5.41	22	5.76
Liver	8	3.74	5	5.32	5	6.76	18	4.71
Total	214	100.00	94	100.00	74	100.00	382	100.00

Table No.; (31) Distribution of Top Ten Cancer by Districts in Female, Najaf, Iraq, 2016

Top ten	Najaf		Kufa		Manathera		Total	
	N.	%	N.	%	N.	%	N.	%
Breast	153	45.81	42	42.42	13	31.71	208	43.88
Thyroid gland	39	11.68	7	7.07	6	14.63	52	10.97
Bronchus & lung	33	9.88	13	13.13	4	9.76	50	10.55
Colorectal	27	8.08	6	6.06	5	12.20	38	8.02
Brain & other CNS	14	4.19	9	9.09	2	4.88	25	5.27
Ovary	17	5.09	5	5.05	3	7.32	25	5.27
Non-Hodgkin's lymphoma	13	3.89	7	7.07	2	4.88	22	4.64
Liver	15	4.49	3	3.03	1	2.44	19	4.01
Urinary bladder	12	3.59	4	4.04	3	7.32	19	4.01
Uterus	11	3.29	3	3.03	2	4.88	16	3.38
Total	334	100.00	99	100.00	41	100.00	474	100.00

Table No.; (32) Distribution of Top Ten Cancer in Male, Babil, Iraq, 2016

Top ten cancer	No.	%
Bronchus & lung	111	19.14
Urinary bladder	74	12.76
Leukemia*	47	8.10
Brain & other CNS **	43	7.41
Pancreas	38	6.55
Prostate	37	6.38
Colorectal	31	5.34
Stomach	20	3.45
Skin	19	3.28
Glottis / larynx	17	2.93
Total other site cancer	143	24.66
Total cancers in Babil	580	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

Figure No.; (36) Incidence Rate (Per 100,000MP) of Top Ten Cases in Male, Babil, Iraq, 2016

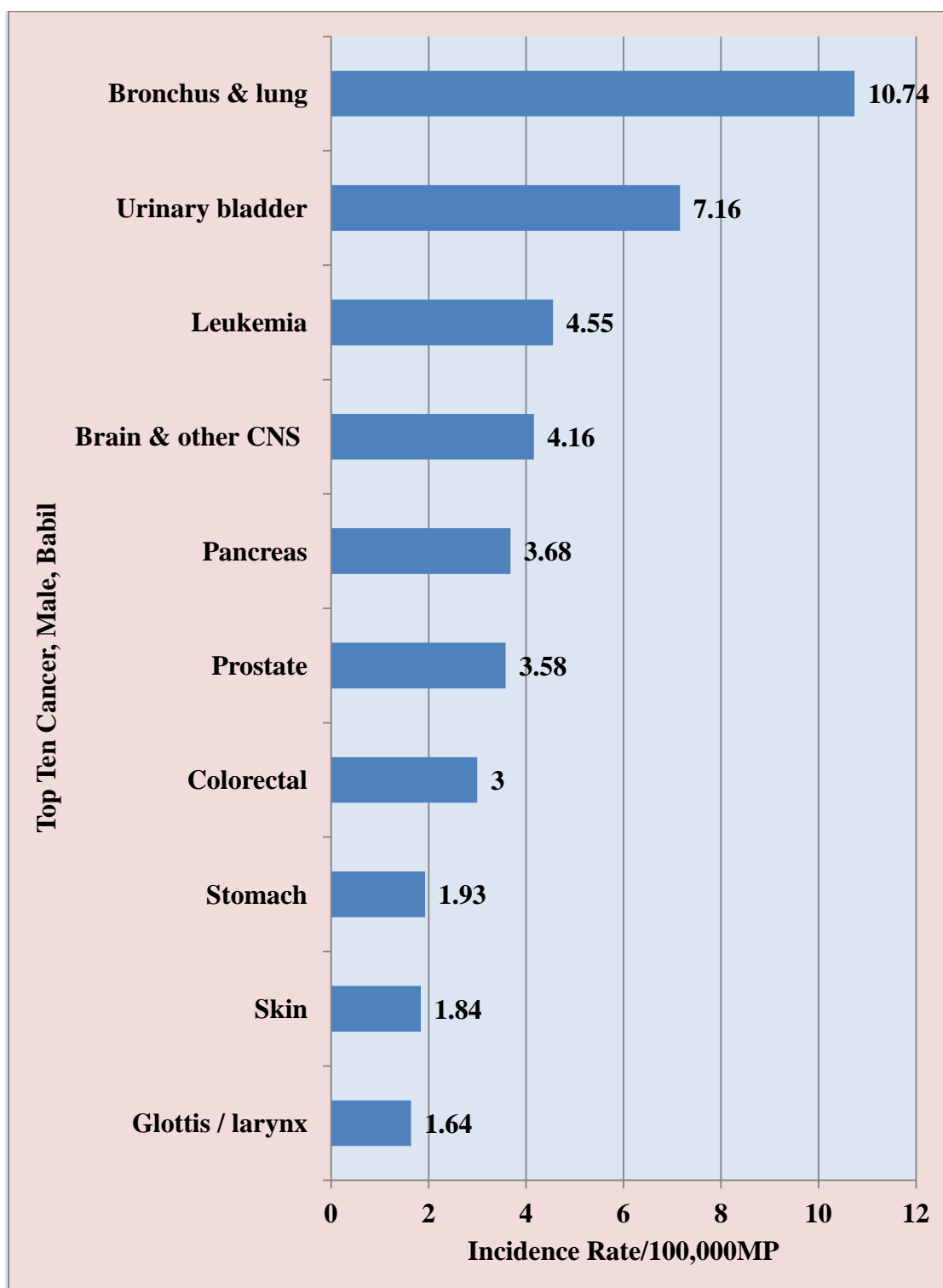


Table No.; (33) Distribution of Top Ten Cancer in Female, Babil, Iraq, 2016

Top ten cancer	No.	%
Breast	206	28.18
Bronchus & lung	56	7.66
Leukemia*	48	6.57
Brain & other CNS**	45	6.15
Ovary	41	5.61
Thyroid gland	40	5.47
Colorectal	38	5.33
Stomach	26	3.56
Urinary bladder	24	3.28
Cervix	23	3.15
Total other site cancer	184	25.04
Total cancers in Babil	731	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

Figure No.; (37) Incidence Rate (Per 100,000FP) of Top Ten Cases in Female, Babil, Iraq, 2016

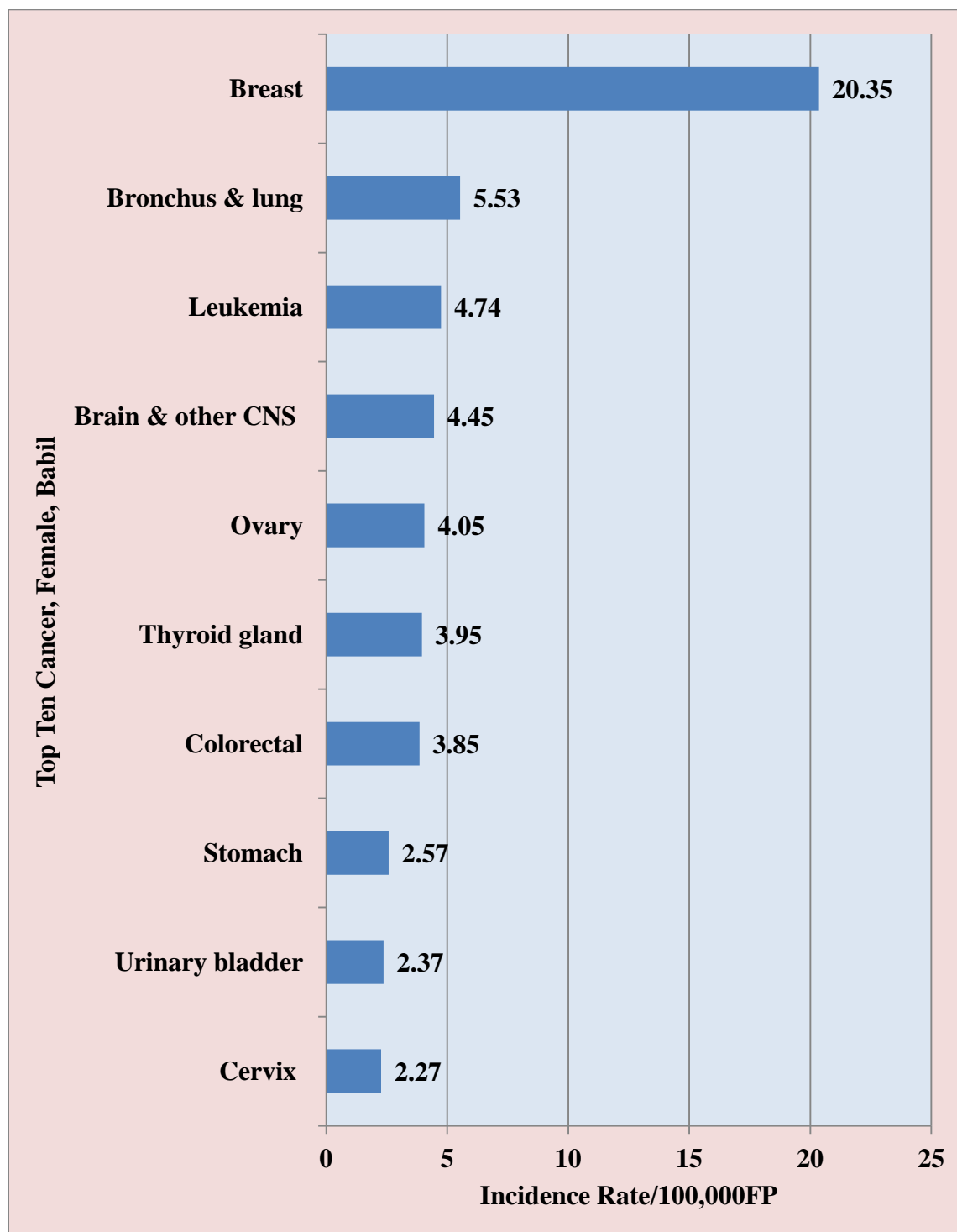


Table No.; (34) Distribution of Top Ten Cancer by Districts in Male, Babil, Iraq, 2016

Top ten	Hilla		Mahaweel		Hashmiya		Missiyab		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%
Bronchus & lung	58	25.00	16	22.54	22	30.56	15	24.19	111	25.40
Urinary bladder	41	17.67	10	14.08	13	18.06	10	16.13	74	16.93
Leukemia	23	9.91	10	14.08	6	8.33	8	12.90	47	10.76
Brain & other CNS	22	9.48	8	11.27	8	11.11	5	8.06	43	9.84
Pancreas	16	6.90	7	9.86	7	9.72	8	12.90	38	8.70
Prostate	25	10.78	6	8.45	3	4.17	3	4.84	37	8.47
colorectal	20	8.62	1	1.41	2	2.78	8	12.90	31	7.09
stomach	9	3.88	5	7.04	4	5.56	2	3.23	20	4.58
Skin	8	3.45	6	8.45	4	5.56	1	1.61	19	4.35
Glottis / Larynx	10	4.31	2	2.82	3	4.17	2	3.23	17	3.89
Total	232	100.00	71	100.00	72	100.00	62	100.00	437	100.00

Table No.; (35) Distribution of Top Ten Cancer by Districts in Female, Babil, Iraq, 2016

Top ten	Hilla		Mahaweel		Hashmiya		Missiyab		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%
Breast	120	39.60	22	33.85	38	35.85	26	35.62	206	37.66
Bronchus & lung	29	9.57	8	12.31	12	11.32	7	9.59	56	10.24
Leukemia	29	9.57	7	10.77	8	7.55	4	5.48	48	8.78
Brain & other CNS	22	7.26	7	10.77	7	6.60	9	12.33	45	8.23
Ovary	19	6.27	4	6.15	9	8.49	9	12.33	41	7.50
Thyroid gland	22	7.26	3	4.62	13	12.26	2	2.74	40	7.31
colorectal	19	6.27	3	4.62	9	8.49	7	9.59	38	6.95
stomach	16	5.28	4	6.15	2	1.89	4	5.48	26	4.75
Urinary bladder	13	4.29	4	6.15	5	4.72	2	2.74	24	4.39
Cervix	14	4.62	3	4.62	3	2.83	3	4.11	23	4.20
Total	303	100.00	65	100.00	106	100.00	73	100.00	547	100.00

Table No.; (36) Distribution of Top Ten Cancer in Male, Nineveh, Iraq, 2016

Top Ten Cancer	No.	%
Leukemia*	34	12.28
Bronchus & lung	31	11.20
Colorectal	29	10.47
Non-Hodgkin lymphomas**	28	10.11
Urinary bladder	22	7.94
Larynx	14	5.05
Stomach	12	4.33
Liver	10	3.61
Brain & other CNS ***	9	3.24
Skin	8	2.88
Total other site cancer	80	28.89
Total cancers in Nineveh	277	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

***Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

Figure No.; (38) Incidence Rate (Per 100,000MP) of Top Ten Cases in Male, Nineveh, Iraq, 2016

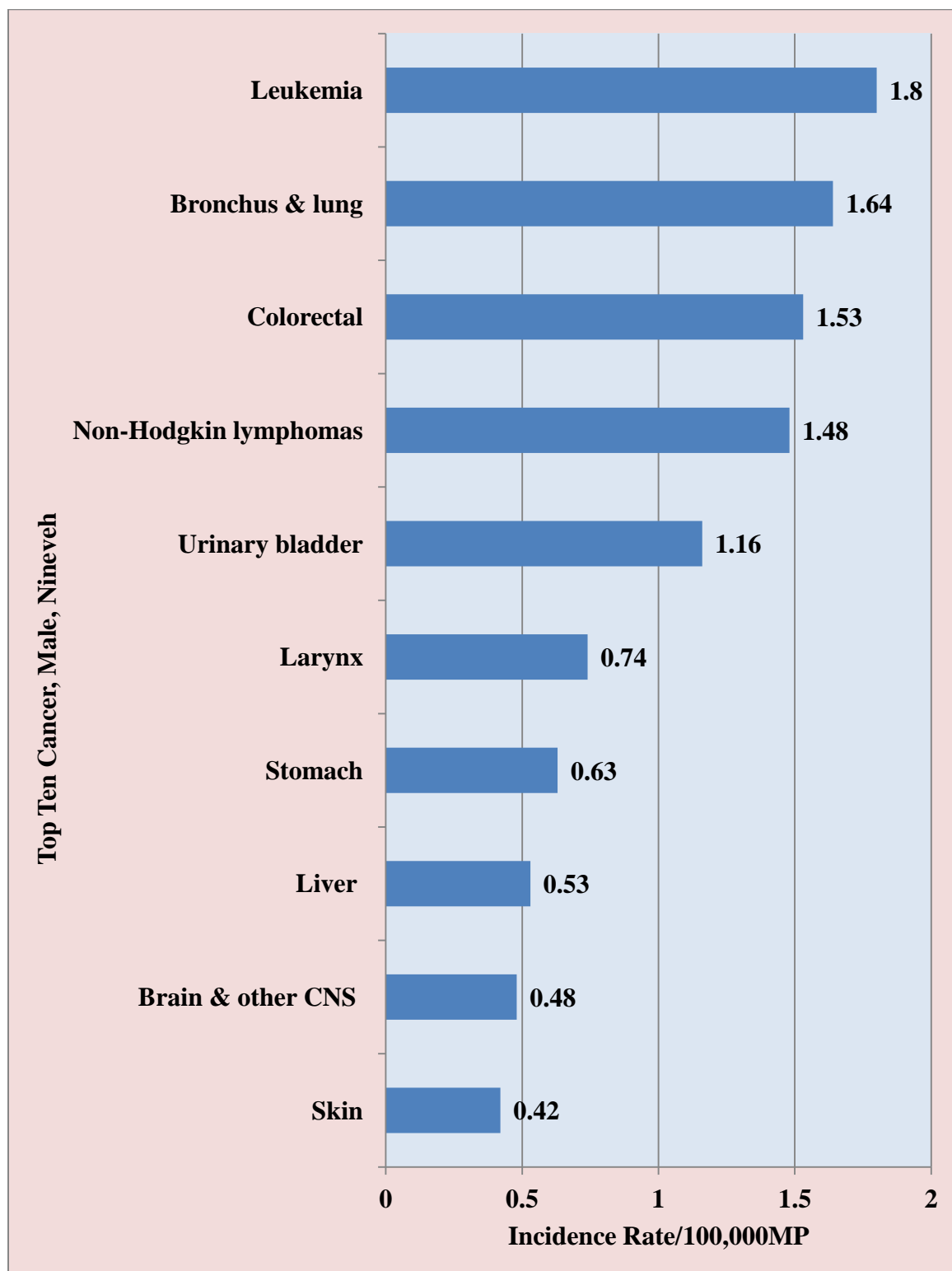


Table No.; (37) Distribution of Top Ten Cancer in Male, Nineveh, Iraq, 2016

Top Ten Cancer	No.	%
Breast	137	38.17
Leukemia*	26	7.25
Thyroid gland	23	6.41
Ovary	17	4.73
Non-Hodgkin lymphomas**	15	4.17
Colorectal	13	3.62
Brain & other CNS***	11	3.06
Hodgkin disease	11	3.06
Skin	10	2.78
Cervix	9	2.50
Total other site cancer	87	24.25
Total cancers in Nineveh	359	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

***Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

**Figure No.; (39) Incidence Rate (Per 100,000FP) of Top Ten Cases in Female,
Nineveh, Iraq, 2016**

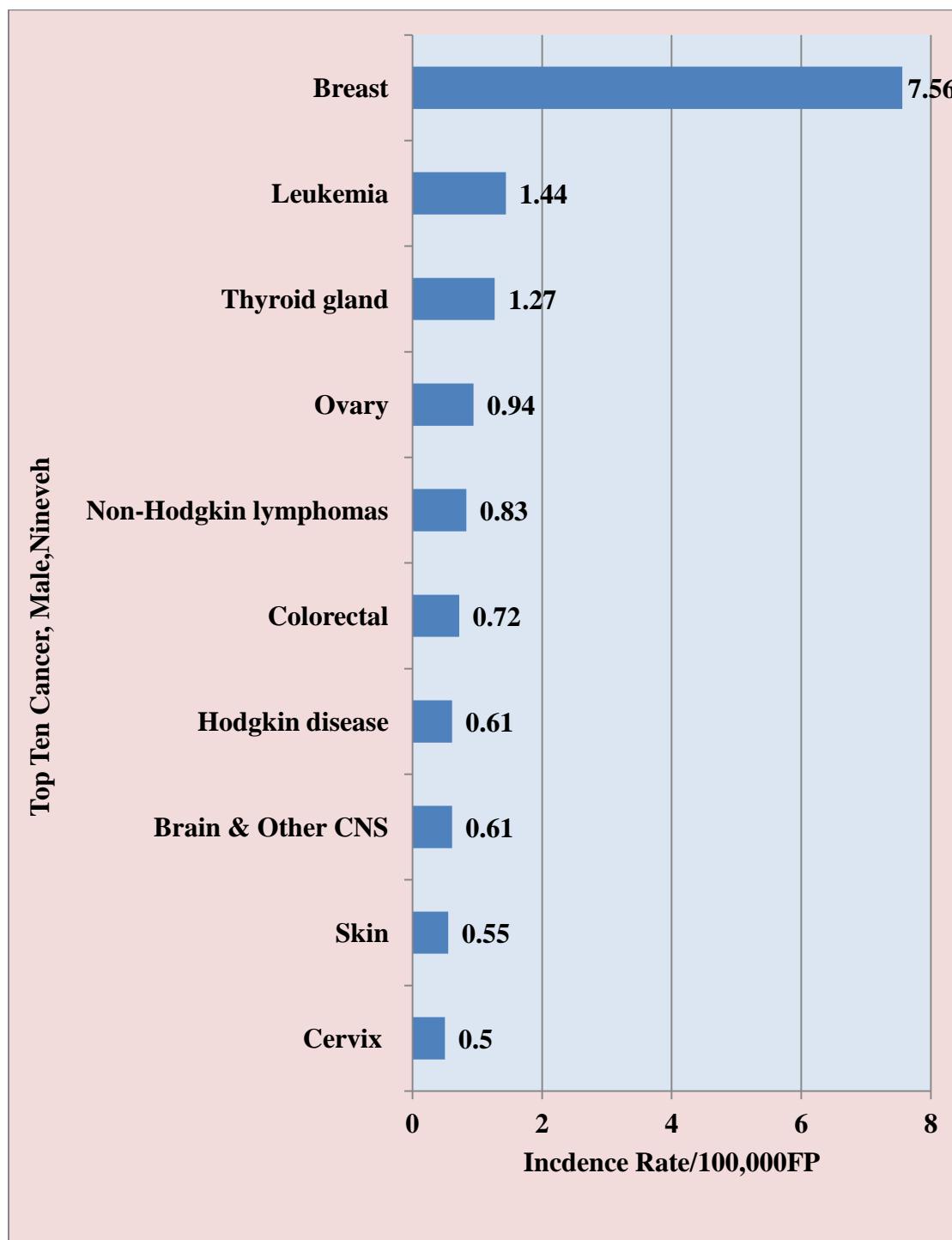


Table No.; (38) Distribution of Top Ten Cancer by Districts in Male, Nineveh, Iraq, 2016

Top ten	Mousel		Hamdaniya		Telkeif		Sin jar		Tel Afar		Shikhan		Aqraa		Baaj		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Leukemia	18	23.68	0	0.00	0	0.00	6	18.75	5	18.52	0	0.00	5	21.74	0	0.00	34	17.26
Bronchus & lung	12	15.79	3	27.27	2	11.76	4	12.50	5	18.52	1	11.11	4	17.39	0	0.00	31	15.74
Colorectal	13	17.11	1	9.09	6	35.29	5	15.63	1	3.70	2	22.22	1	4.35	0	0.00	29	14.72
Non-Hodgkin lymphomas	11	14.47	5	45.45	1	5.88	4	12.50	3	11.11	1	11.11	2	8.70	1	50.00	28	14.21
Urinary bladder	7	9.21	1	9.09	4	23.53	3	9.38	3	11.11	1	11.11	2	8.70	1	50.00	22	11.17
Larynx	5	6.58	0	0.00	1	5.88	4	12.50	3	11.11	0	0.00	1	4.35	0	0.00	14	7.11
Stomach	5	6.58	1	9.09	1	5.88	2	6.25	3	11.11	0	0.00	0	0.00	0	0.00	12	6.09
Liver	1	1.32	0	0.00	2	11.76	0	0.00	2	7.41	2	22.22	3	13.04	0	0.00	10	5.08
Brain & other CNS	3	3.95	0	0.00	0	0.00	2	6.25	2	7.41	0	0.00	2	8.70	0	0.00	9	4.57
Skin	1	1.32	0	0.00	0	0.00	2	6.25	0	0.00	2	22.22	3	13.04	0	0.00	8	4.06
Total	76	100.00	11	100.00	17	100.00	32	100.00	27	100.00	9	100.00	23	100.00	2	100.00	197	100.00

Table No.; (39) Distribution of Top Ten Cancer by Districts in Female, Nineveh, Iraq, 2016

Top ten	Mousel		Hamdaniya		Telkeif		Sin jar		Tel Afar		Shikhan		Aqraa		Baaj		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Breast	90	59.60	18	81.82	3	25.00	9	28.13	7	20.00	3	42.86	6	50.00	1	100.00	137	50.37
Leukemia	9	5.96	1	4.55	2	16.67	4	12.50	9	25.71	0	0.00	1	8.33	0	0.00	26	9.56
Thyroid gland	15	9.93	0	0.00	2	16.67	5	15.63	0	0.00	0	0.00	1	8.33	0	0.00	23	8.46
Ovary	7	4.64	1	4.55	1	8.33	2	6.25	4	11.43	0	0.00	2	16.67	0	0.00	17	6.25
Non-Hodgkin lymphomas	5	3.31	1	4.55	3	25.00	2	6.25	3	8.57	0	0.00	1	8.33	0	0.00	15	5.51
Colorectal	8	5.30	0	0.00	0	0.00	1	3.13	4	11.43	0	0.00	0	0.00	0	0.00	13	4.78
Brain & other CNS	3	1.99	0	0.00	0	0.00	3	9.38	2	5.71	3	42.86	0	0.00	0	0.00	11	4.04
Hodgkin disease	6	3.97	0	0.00	0	0.00	3	9.38	2	5.71	0	0.00	0	0.00	0	0.00	11	4.04
Skin	2	1.32	1	4.55	1	8.33	2	6.25	2	5.71	1	14.29	1	8.33	0	0.00	10	3.68
Cervix	6	3.97	0	0.00	0	0.00	1	3.13	2	5.71	0	0.00	0	0.00	0	0.00	9	3.31
Total	151	100.00	22	100.00	12	100.00	32	100.00	35	100.00	7	100.00	12	100.00	1	100.00	272	100.00

Table No.; (40) Distribution of Top Ten Cancer in Male, Basra, Iraq, 2016

Top ten cancer	No.	%
Bronchus & lung	115	12.35
Leukemia*	95	10.20
Urinary bladder	94	10.10
Non-Hodgkin's lymphoma**	63	6.77
Brain & other CNS ***	62	6.65
Colorectal	51	5.47
Prostate	46	4.94
Stomach	32	3.44
Hodgkin's disease	32	3.44
Kidney	28	3.01
Total other site cancer	313	33.63
Total cancers in Basra	931	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

***Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

Figure No.; (40) Incidence Rate (Per 100,000MP) of Top Ten Cases in Male, Basra, Iraq, 2016

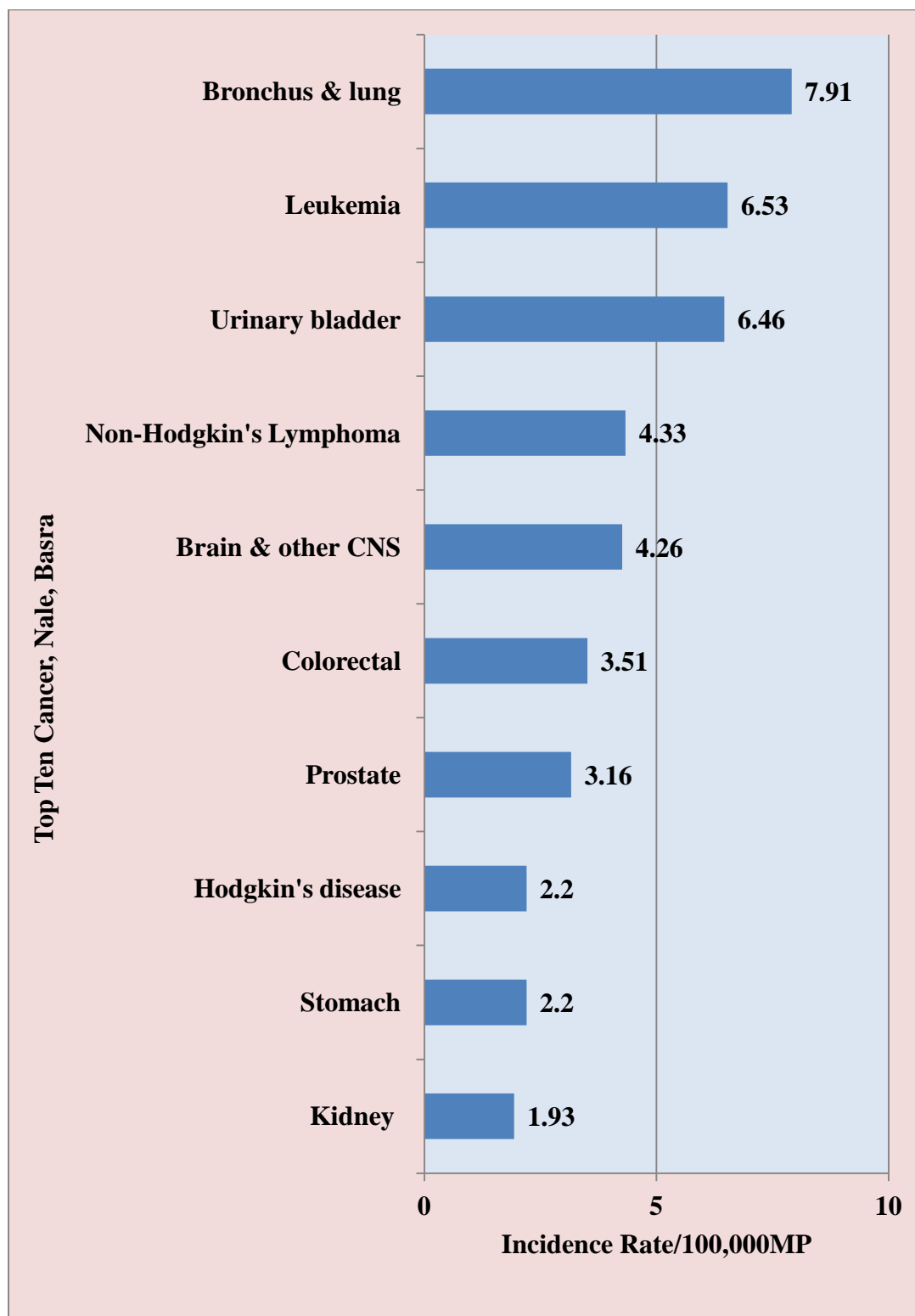


Table No.; (41) Distribution of Top Ten Cancer in Female, Basra, Iraq, 2016

Top ten cancer	No.	%
Breast	427	35.55
Leukemia*	64	5.33
Colorectal	63	5.25
Ovary	52	4.33
Brain & other CNS **	51	4.25
Non-Hodgkin's lymphoma***	49	4.08
Thyroid gland	43	3.58
Uterus	39	3.25
Bronchus & lung	38	3.16
Hodgkin's disease	38	3.16
Total other site cancer	337	28.06
Total cancers in Basra	1,201	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

*** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (41) Incidence Rate (Per 100,000FP) of Top Ten Cases in Female, Basra, Iraq, 2016

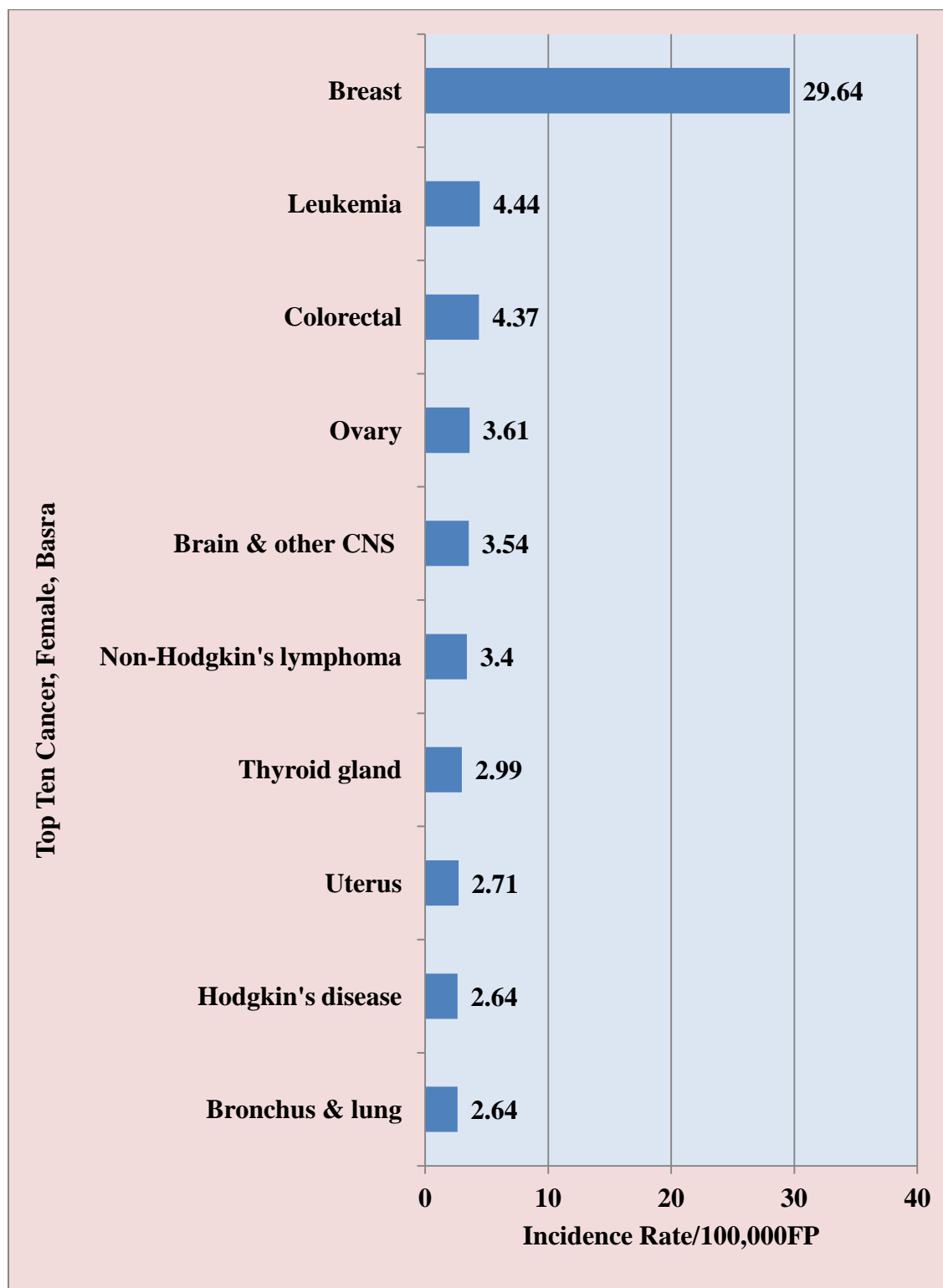


Table No.; (42) Distribution of Top Ten Cancer by Districts in Male, Basra, Iraq, 2016

Top ten	Basra		Abu-Alkhasseb		Zubair		Qoorna		Faw		Shatt Al-Arab		Almdainah		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Bronchus & lung	63	17.40	6	15.00	28	25.93	11	25.58	0	0.00	1	5.00	6	15.00	115	18.61
Leukemia	50	13.81	9	22.50	14	12.96	9	20.93	2	40.00	4	20.00	7	17.50	95	15.37
Urinary bladder	63	17.40	4	10.00	14	12.96	6	13.95	0	0.00	2	10.00	5	12.50	94	15.21
Non-Hodgkin's lymphoma	40	11.05	5	12.50	7	6.48	2	4.65	0	0.00	4	20.00	5	12.50	63	10.19
Brain & other CNS	29	8.01	5	12.50	13	12.04	7	16.28	1	20.00	2	10.00	5	12.50	62	10.03
Colorectal	28	7.73	5	12.50	12	11.11	1	2.33	0	0.00	1	5.00	4	10.00	51	8.25
Prostate	27	7.46	2	5.00	7	6.48	2	4.65	1	20.00	3	15.00	4	10.00	46	7.44
Stomach	23	6.35	1	2.50	3	2.78	2	4.65	1	20.00	0	0.00	2	5.00	32	5.18
Hodgkin's disease	21	5.80	2	5.00	3	2.78	3	6.98	0	0.00	2	10.00	1	2.50	32	5.18
Kidney	18	4.97	1	2.50	7	6.48	0	0.00	0	0.00	1	5.00	1	2.50	28	4.53
Total	362	100.00	40	100.00	108	100.00	43	100.00	5	100.00	20	100.00	40	100.00	618	100.00

Table No.; (43) Distribution of Top Ten Cancer by Districts in Female, Basra, Iraq, 2016

Top ten	Basra		Abu-Alkhasseb		Zubair		Qoorna		Faw		Shatt Al-Arab		Almdainah		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Breast	284	51.73	28	50.91	37	35.92	33	54.10	3	50.00	21	51.22	21	42.86	427	49.42
Leukemia	37	6.74	3	5.45	7	6.80	9	14.75	0	0.00	4	9.76	4	8.16	64	7.41
Colorectal	38	6.92	3	5.45	11	10.68	4	6.56	1	16.67	1	2.44	5	10.20	63	7.29
Ovary	34	6.19	5	9.09	5	4.85	2	3.28	0	0.00	1	2.44	5	10.20	52	6.02
Brain & other CNS	32	5.83	5	9.09	10	9.71	1	1.64	1	16.67	2	4.88	0	0.00	51	5.90
Non-Hodgkin's lymphoma	28	5.10	3	5.45	10	9.71	5	8.20	0	0.00	2	4.88	1	2.04	49	5.67
Thyroid gland	24	4.37	4	7.27	7	6.80	2	3.28	0	0.00	4	9.76	2	4.08	43	4.98
Uterus	25	4.55	3	5.45	5	4.85	2	3.28	0	0.00	2	4.88	2	4.08	39	4.51
Bronchus & lung	24	4.37	0	0.00	6	5.83	2	3.28	0	0.00	1	2.44	5	10.20	38	4.40
Hodgkin's disease	23	4.19	1	1.82	5	4.85	1	1.64	1	16.67	3	7.32	4	8.16	38	4.40
Total	549	100.00	55	100.00	103	100.00	61	100.00	6	100.00	41	100.00	49	100.00	864	100.00

Table No.; (44) Distribution of Top Ten Cancer in Male, Erbil, Iraq, 2016

Top ten cancer	No.	%
Bronchus & lung	114	15.43
Prostate	71	9.61
Colorectal	70	9.47
Skin	68	9.20
Urinary bladder	58	7.85
Kidney	35	4.74
Leukemia*	35	4.74
Non-Hodgkin's lymphoma**	32	4.33
Stomach	31	4.19
Brain & other CNS ***	28	3.79
Total other site cancer	197	26.66
Total cancers in Erbil	739	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

***Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

Figure No.; (42) Incidence Rate (Per 100,000MP) of Top Ten Cases in Male, Erbil, Iraq, 2016

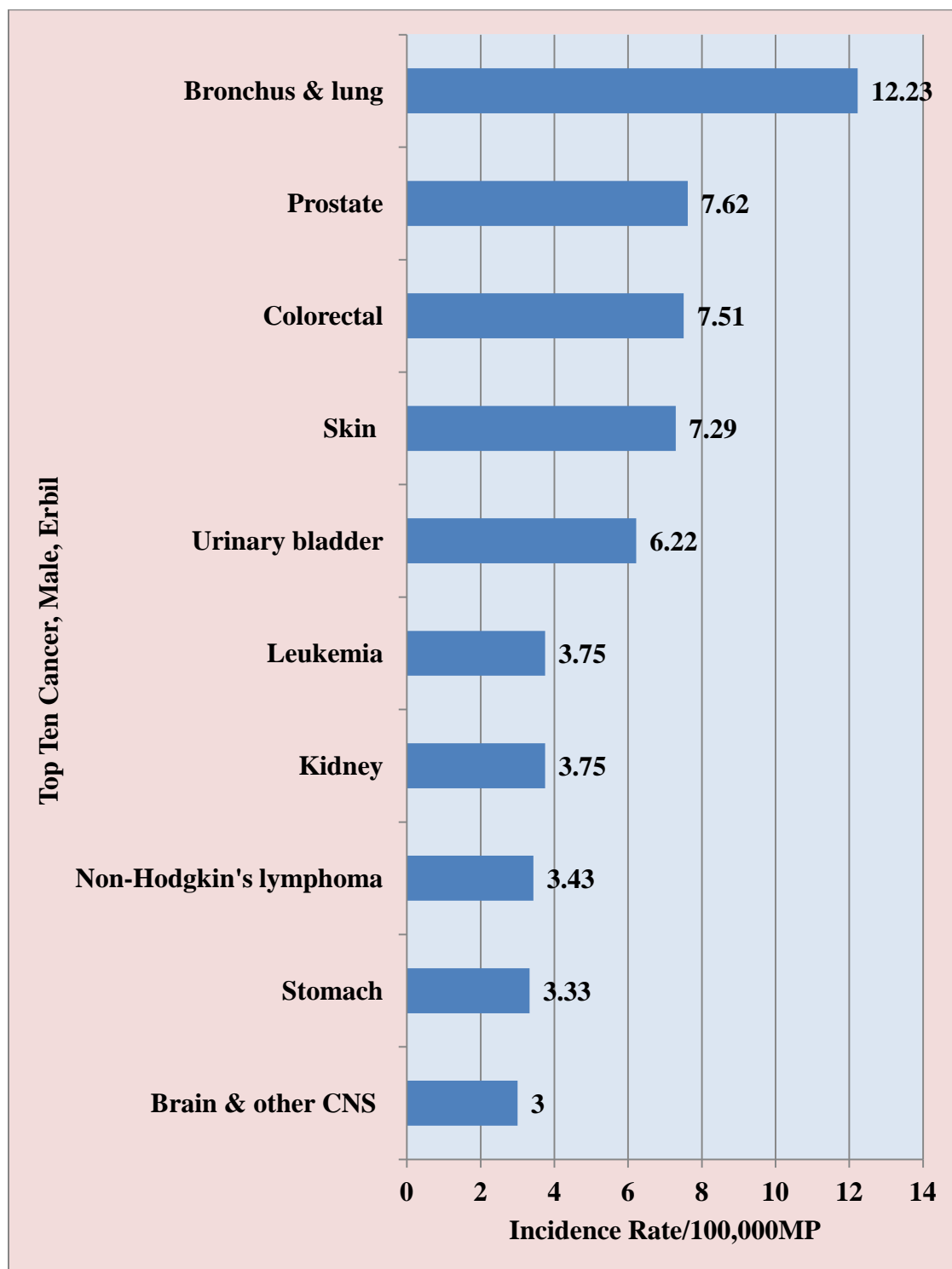


Table No.; (45) Distribution of Top Ten Cancer in Female, Erbil, Iraq, 2016

Top ten cancer	No.	%
Breast	287	34.00
Colorectal	65	7.70
Skin	63	7.46
Thyroid gland	37	4.38
Ovary	31	3.67
Corpus uteri	29	3.44
Bronchus & lung	28	3.32
Stomach	27	3.20
Leukemia*	26	3.08
Non-Hodgkin's lymphoma**	26	3.08
Total other site cancer	225	26.67
Total cancers in Erbil	844	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (43) Incidence Rate (Per 100,000FP) of Top Ten Cases in Female, Erbil, Iraq, 2016

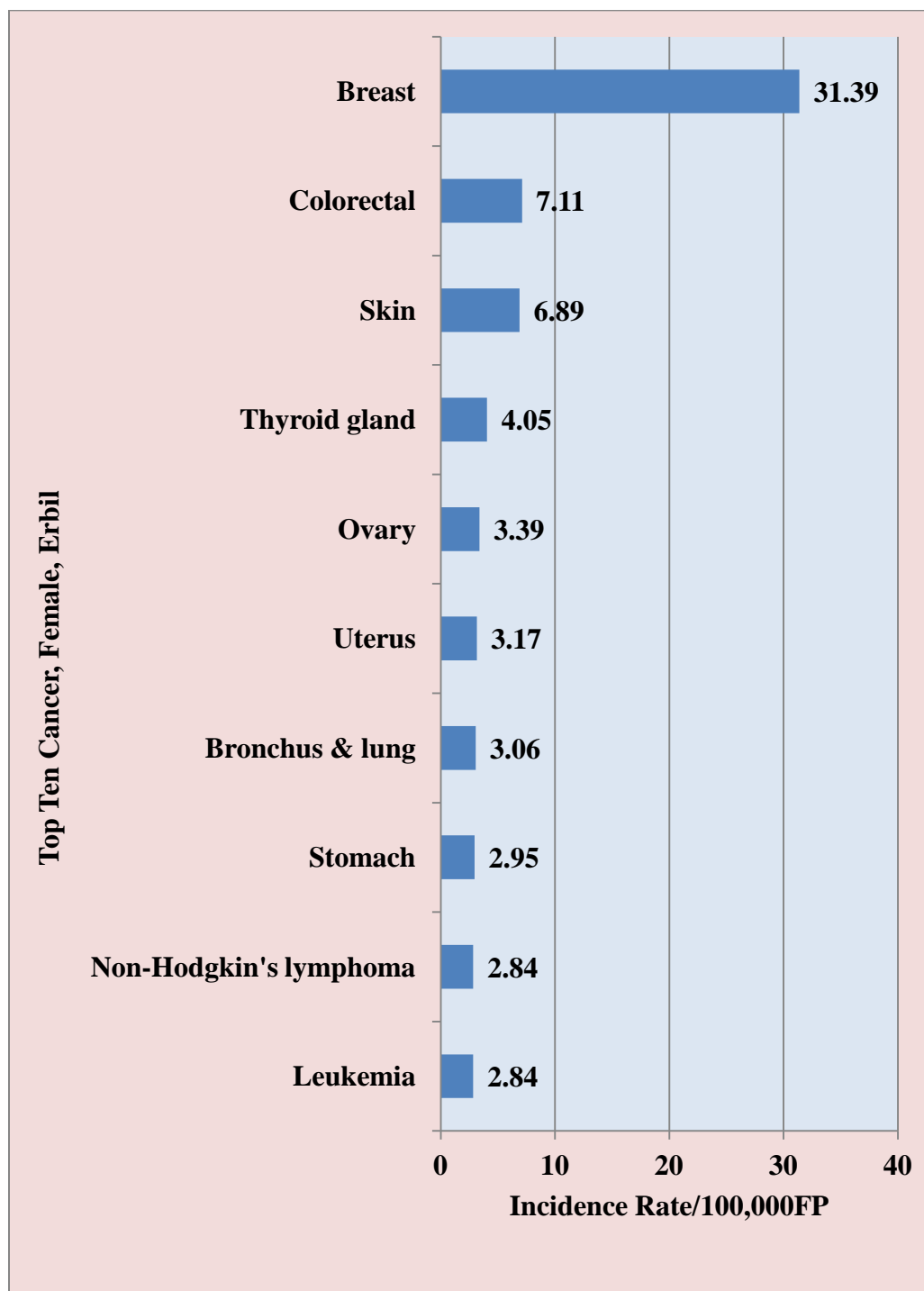


Table No.; (46) Distribution of Top Ten Cancer by Districts in Male, Erbil, Iraq, 2016

Top ten	Erbil		Khabat		Makhmoor		Sooran		Kweisengek		Shaqlawawa		Meirgehsor		Rawandooza		Choman		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Bronchus & lung	86	20.48	8	47.06	1	16.67	9	24.32	4	25.00	4	13.79	0	0.00	0	0.00	2	33.33	114	21.03
Prostate	54	12.86	2	11.76	1	16.67	3	8.11	4	25.00	4	13.79	2	25.00	0	0.00	1	16.67	71	13.10
Colorectal	59	14.05	1	5.88	1	16.67	2	5.41	0	0.00	5	17.24	2	25.00	0	0.00	0	0.00	70	12.92
Skin	56	13.33	1	5.88	0	0.00	5	13.51	3	18.75	2	6.90	0	0.00	0	0.00	1	16.67	68	12.55
Urinary bladder	50	11.90	0	0.00	1	16.67	1	2.70	1	6.25	4	13.79	1	12.50	0	0.00	0	0.00	58	10.70
Kidney	31	7.38	1	5.88	0	0.00	1	2.70	0	0.00	1	3.45	0	0.00	1	33.33	0	0.00	35	6.46
Leukemia	29	6.90	0	0.00	0	0.00	3	8.11	0	0.00	1	3.45	0	0.00	2	66.67	0	0.00	35	6.46
Non-Hodgkin's lymphoma	20	4.76	1	5.88	1	16.67	5	13.51	0	0.00	2	6.90	2	25.00	0	0.00	1	16.67	32	5.90
stomach	15	3.57	1	5.88	1	16.67	5	13.51	2	12.50	5	17.24	1	12.50	0	0.00	1	16.67	31	5.72
Brain & other CNS	20	4.76	2	11.76	0	0.00	3	8.11	2	12.50	1	3.45	0	0.00	0	0.00	0	0.00	28	5.17
Total	420	100.00	17	100.00	6	100.00	37	100.00	16	100.00	29	100.00	8	100.00	3	100.00	6	100.00	542	100.00

Table No.; (47) Distribution of Top Ten Cancer by Districts in Female, Erbil, Iraq, 2016

Top ten	Erbil		Khabat		Makhmoor		Sooran		Kweisengek		Shaqlawat		Meirgehsor		Rawandooza		Choman		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Breast	233	47.84	8	42.11	2	25.00	9	45.00	10	43.48	10	25.00	7	77.78	4	80.00	4	50.00	287	46.37
colorectal	54	11.09	4	21.05	0	0.00	3	15.00	3	13.04	1	2.50	0	0.00	0	0.00	0	0.00	65	10.50
Skin	48	9.86	4	21.05	2	25.00	0	0.00	2	8.70	7	17.50	0	0.00	0	0.00	0	0.00	63	10.18
Thyroid gland	31	6.37	0	0.00	1	12.50	3	15.00	0	0.00	2	5.00	0	0.00	0	0.00	0	0.00	37	5.98
Ovary	21	4.31	0	0.00	1	12.50	2	10.00	1	4.35	4	10.00	1	11.11	1	20.00	0	0.00	31	5.01
Corpus uteri	26	5.34	1	5.26	0	0.00	0	0.00	1	4.35	1	2.50	0	0.00	0	0.00	0	0.00	29	4.68
Bronchus & lung	22	4.52	0	0.00	0	0.00	0	0.00	3	13.04	3	7.50	0	0.00	0	0.00	0	0.00	28	4.52
stomach	17	3.49	2	10.53	0	0.00	1	5.00	1	4.35	4	10.00	1	11.11	0	0.00	1	12.50	27	4.36
Leukemia	16	3.29	0	0.00	1	12.50	1	5.00	1	4.35	5	12.50	0	0.00	0	0.00	2	25.00	26	4.20
Non-Hodgkin's lymphoma	19	3.90	0	0.00	1	12.50	1	5.00	1	4.35	3	7.50	0	0.00	0	0.00	1	12.50	26	4.20
Total	487	100.00	19	100.00	8	100.00	20	100.00	23	100.00	40	100.00	9	100.00	5	100.00	8	100.00	619	100.00

Table No.; (48) Distribution of Top Ten Cancer in Male, Dyala, Iraq, 2016

Top ten cancer	No.	%
Bronchus & lung	62	14.00
Leukemia*	49	11.06
Non-Hodgkin's lymphoma**	34	7.67
Brain & other CNS***	29	6.55
Skin	29	6.55
Stomach	28	6.32
Urinary bladder	23	5.19
Prostate	20	4.51
Larynx	16	3.61
Colorectal	14	3.16
Total other site cancer	139	31.38
Total cancers in Dyala	443	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

***Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

Figure No.; (44) Incidence Rate (Per 100,000MP) of Top Ten Cases in Male, Dyala, Iraq, 2016

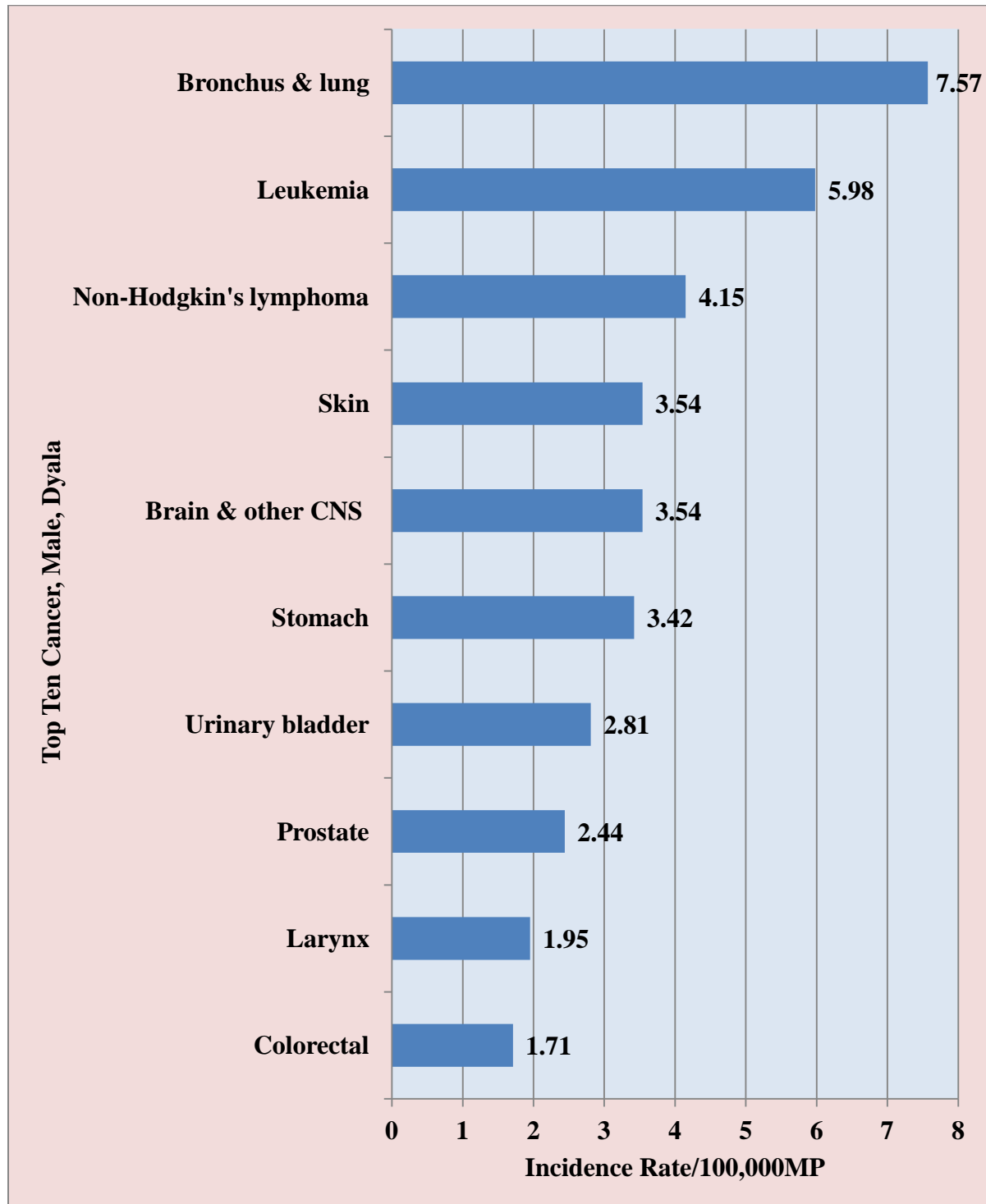


Table No.; (49) Distribution of Top Ten Cancer in Female, Dyala, Iraq, 2016

Top ten cancer	No.	%
Breast	222	36.33
Leukemia*	37	6.06
Bronchus & lung	35	5.73
Thyroid gland	31	5.07
Brain & other CNS **	27	4.42
Stomach	27	4.42
Ovary	24	3.93
Non-Hodgkin's lymphoma***	23	3.76
Colorectal	22	3.60
Liver	14	2.29
Total other site cancer	149	24.39
Total cancers in Dyala	611	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

*** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (45) Incidence Rate (Per 100,000FP) of Top Ten Cases in Female, Dyala, Iraq, 2016

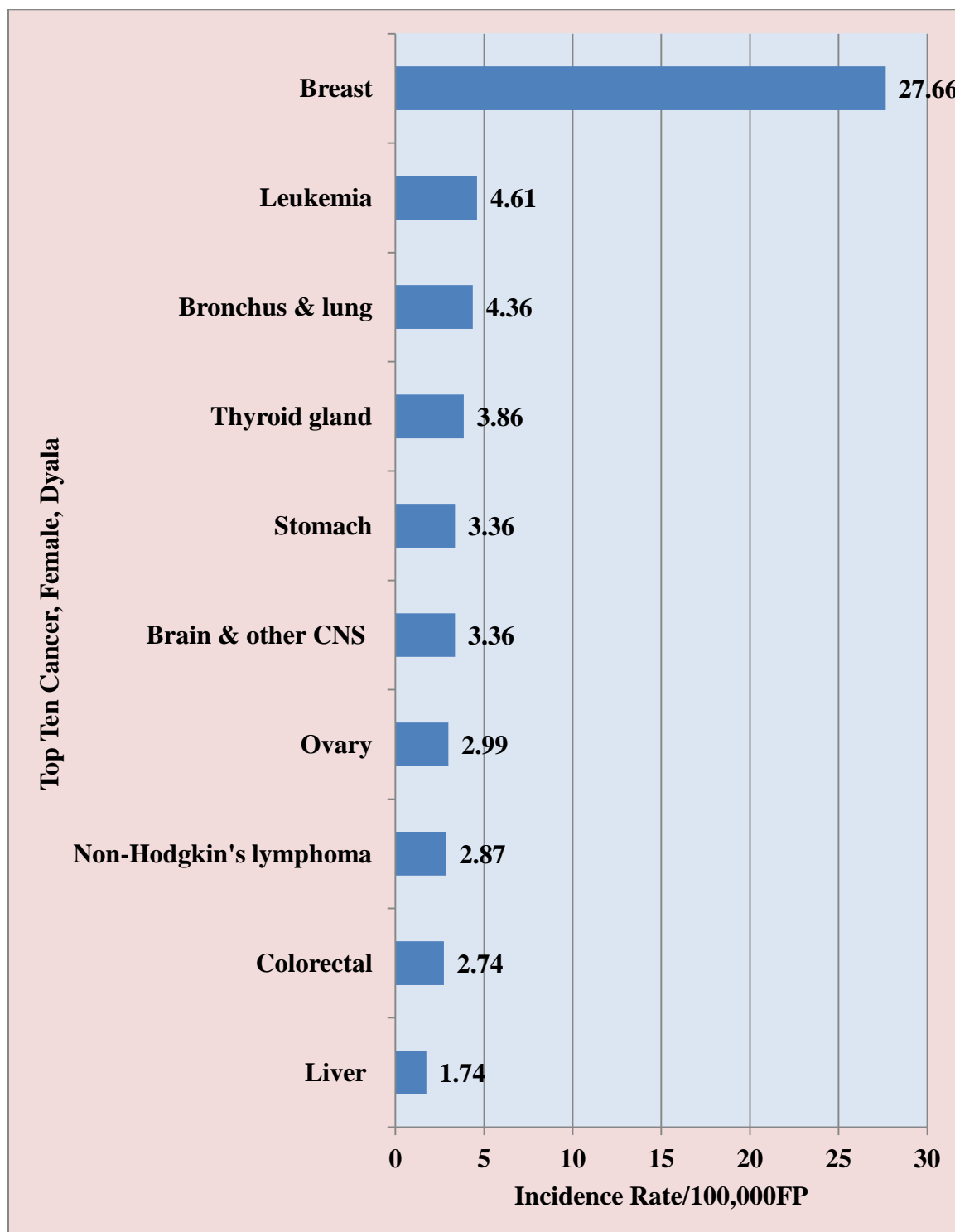


Table No.; (50) Distribution of Top Ten Cancer by Districts in Male, Dyala, Iraq, 2016

Top ten	Bakooba		Al-Moqdadia		Al-Khalis		Baladrooze		Khanakeen		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Bronchus & lung	33	19.88	10	24.39	9	18.75	5	26.32	5	16.67	62	20.39
Leukemia	15	9.04	6	14.63	15	31.25	3	15.79	10	33.33	49	16.12
Non-Hodgkin's lymphoma	22	13.25	5	12.20	4	8.33	2	10.53	1	3.33	34	11.18
Brain & other CNS	18	10.84	5	12.20	5	10.42	0	0.00	1	3.33	29	9.54
Skin	27	16.27	0	0.00	2	4.17	0	0.00	0	0.00	29	9.54
Stomach	17	10.24	3	7.32	3	6.25	3	15.79	2	6.67	28	9.21
Urinary bladder	11	6.63	7	17.07	2	4.17	1	5.26	2	6.67	23	7.57
Prostate	9	5.42	3	7.32	3	6.25	2	10.53	3	10.00	20	6.58
Glottis / Larynx	9	5.42	1	2.44	2	4.17	1	5.26	3	10.00	16	5.26
Colorectal	5	3.01	1	2.44	3	6.25	2	10.53	3	10.00	14	4.61
Total	166	100.00	41	100.00	48	100.00	19	100.00	30	100.00	304	100.00

Table No.; (51) Distribution of Top Ten Cancer by Districts in Female, Dyala, Iraq, 2016

Top ten	Bakooba		Al-Moqdadia		Al-Khalis		Baladrooze		Khanakeen		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Breast	142	53.18	15	35.71	29	48.33	13	29.55	23	46.94	222	48.05
Leukemia	17	6.37	4	9.52	7	11.67	6	13.64	3	6.12	37	8.01
Bronchus & lung	15	5.62	2	4.76	6	10.00	5	11.36	7	14.29	35	7.58
Thyroid gland	14	5.24	5	11.90	4	6.67	3	6.82	5	10.20	31	6.71
Brain & other CNS	14	5.24	3	7.14	1	1.67	5	11.36	4	8.16	27	5.84
Stomach	15	5.62	4	9.52	5	8.33	2	4.55	1	2.04	27	5.84
Ovary	14	5.24	2	4.76	2	3.33	5	11.36	1	2.04	24	5.19
Non-Hodgkin's lymphoma	13	4.87	3	7.14	4	6.67	1	2.27	2	4.08	23	4.98
Colorectal	16	5.99	1	2.38	1	1.67	2	4.55	2	4.08	22	4.76
Liver	7	2.62	3	7.14	1	1.67	2	4.55	1	2.04	14	3.03
Total	267	100.00	42	100.00	60	100.00	44	100.00	49	100.00	462	100.00

Table No.; (52) Distribution of Top Ten Cancer in Male, Duhok, Iraq, 2016

Top ten cancer	No.	%
Bronchus & lung	62	16.53
Skin	39	10.40
Urinary bladder	32	8.53
Leukemia*	25	6.67
Colorectal	25	6.67
Non-Hodgkin's lymphoma**	21	5.60
Prostate	19	5.07
Stomach	18	4.80
Hodgkin's disease	15	4.00
Brain & other CNS***	12	3.20
Total other site cancer	107	28.53
Total cancers in Duhok	375	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

***Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

Figure No.; (46) Incidence Rate (Per 100,000MP) of Top Ten Cases in Male, Duhok, Iraq, 2016

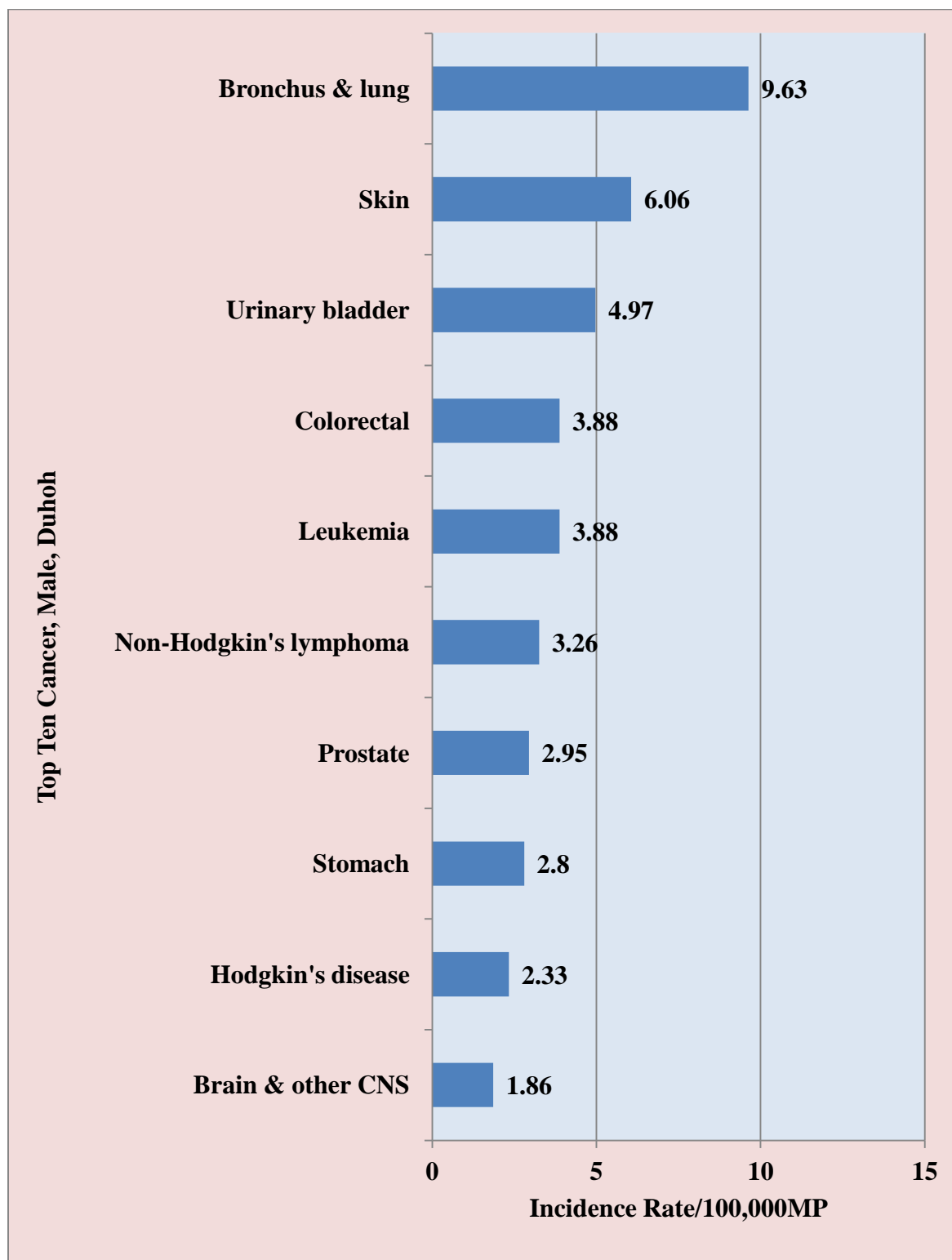


Table No.; (53) Distribution of Top Ten Cancer in Female, Duhok, Iraq, 2016

Top ten cancer	No.	%
Breast	100	25.45
Skin	43	10.94
Leukemia*	42	10.69
Brain & other CNS**	21	5.34
Colorectal	19	4.83
Non-Hodgkin's lymphoma***	18	4.58
Ovary	17	4.33
Thyroid gland	15	3.82
Hodgkin's disease	12	3.05
Bronchus & lung	11	2.80
Total other site cancer	95	24.17
Total cancers in Duhok	393	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

*** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (47) Incidence Rate (Per 100,000FP) of Top Ten Cases in Female, Duhok, Iraq, 2016

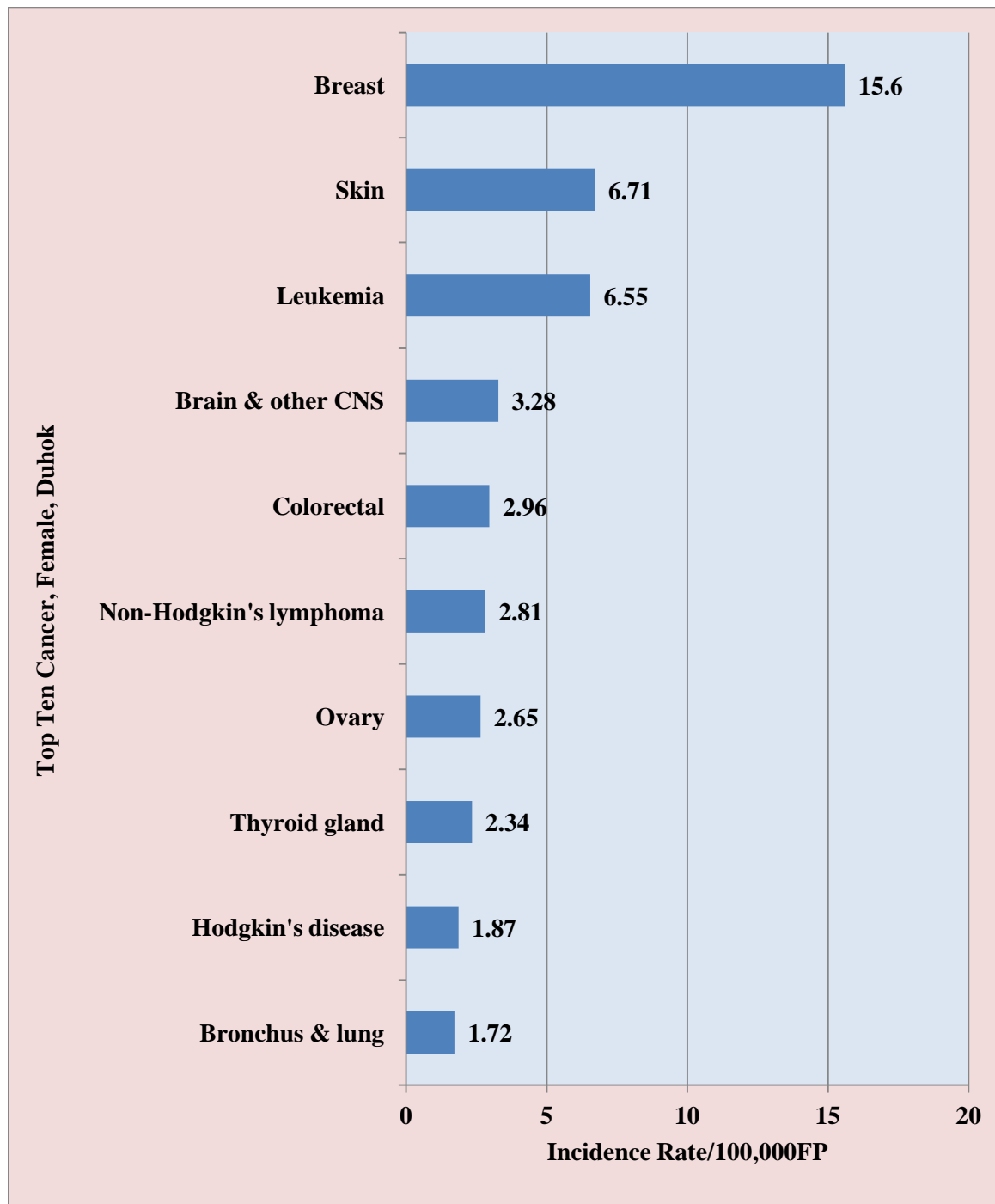


Table No.; (54) Distribution of Top Ten Cancer by Districts in Male, Duhok, Iraq, 2016

Top ten	Duhok		Al-Amadyia		Zakho		Shaikhan		Aqreh		Berdehresh		Smeel		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Bronchus & lung	41	23.43	1	50.00	8	15.69	1	50.00	5	50.00	5	33.33	1	7.69	62	23.13
Skin	27	15.43	1	50.00	6	11.76	0	0.00	0	0.00	1	6.67	4	30.77	39	14.55
Urinary bladder	23	13.14	0	0.00	3	5.88	0	0.00	0	0.00	3	20.00	3	23.08	32	11.94
Leukemia	15	8.57	0	0.00	10	19.61	0	0.00	0	0.00	0	0.00	0	0.00	25	9.33
Colorectal	15	8.57	0	0.00	8	15.69	0	0.00	1	10.00	1	6.67	0	0.00	25	9.33
Non-Hodgkin's lymphoma	10	5.71	0	0.00	6	11.76	1	50.00	0	0.00	4	26.67	0	0.00	21	7.84
Prostate	14	8.00	0	0.00	3	5.88	0	0.00	1	10.00	1	6.67	0	0.00	19	7.09
stomach	12	6.86	0	0.00	3	5.88	0	0.00	1	10.00	0	0.00	2	15.38	18	6.72
Hodgkin's disease	9	5.14	0	0.00	2	3.92	0	0.00	1	10.00	0	0.00	3	23.08	15	5.60
Brain & other CNS	9	5.14	0	0.00	2	3.92	0	0.00	1	10.00	0	0.00	0	0.00	12	4.48
Total	175	100.00	2	100.00	51	100.00	2	100.00	10	100.00	15	100.00	13	100.00	268	100.00

Table No.; (55) Distribution of Top Ten Cancer by Districts in Female, Duhok, Iraq, 2016

Top ten	Duhok		Al-Amadyia		Zakho		Shaikhan		Aqreh		Berdehresh		Smeel		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Breast	64	31.84	1	33.33	18	37.50	1	50.00	4	33.33	5	50.00	7	31.82	100	33.56
Skin	33	16.42	0	0.00	5	10.42	0	0.00	0	0.00	1	10.00	4	18.18	43	14.43
Leukemia	27	13.43	1	33.33	7	14.58	0	0.00	4	33.33	0	0.00	3	13.64	42	14.09
Brain & other CNS	16	7.96	0	0.00	2	4.17	0	0.00	1	8.33	0	0.00	2	9.09	21	7.05
Colorectal	12	5.97	1	33.33	4	8.33	0	0.00	0	0.00	0	0.00	2	9.09	19	6.38
Non-Hodgkin's lymphoma	13	6.47	0	0.00	3	6.25	1	50.00	0	0.00	1	10.00	0	0.00	18	6.04
Ovary	11	5.47	0	0.00	4	8.33	0	0.00	0	0.00	0	0.00	2	9.09	17	5.70
Thyroid gland	13	6.47	0	0.00	1	2.08	0	0.00	1	8.33	0	0.00	0	0.00	15	5.03
Hodgkin's disease	7	3.48	0	0.00	4	8.33	0	0.00	0	0.00	1	10.00	0	0.00	12	4.03
Bronchus & lung	5	2.49	0	0.00	0	0.00	0	0.00	2	16.67	2	20.00	2	9.09	11	3.69
Total	201	100.00	3	100.00	48	100.00	2	100.00	12	100.00	10	100.00	22	100.00	298	100.00

Table No.; (56) Distribution of Top Ten Cancer in Male, Thiqr, Iraq, 2016

Top ten cancer	No.	%
Bronchus & lung	111	15.23
Urinary bladder	87	11.93
Brain & other CNS*	67	9.19
Leukemia**	61	8.37
Prostate	42	5.76
Colorectal	34	4.66
Non-Hodgkin's lymphoma***	34	4.66
Stomach	29	3.98
Pancreas	28	3.84
Thyroid gland	21	2.88
Total other site cancer	215	29.50
Total cancers in Thiqr	729	100.00%

*Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

**Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

*** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (48) Incidence Rate (Per 100,000MP) of Top Ten Cases in Male, Thiqr, Iraq, 2016

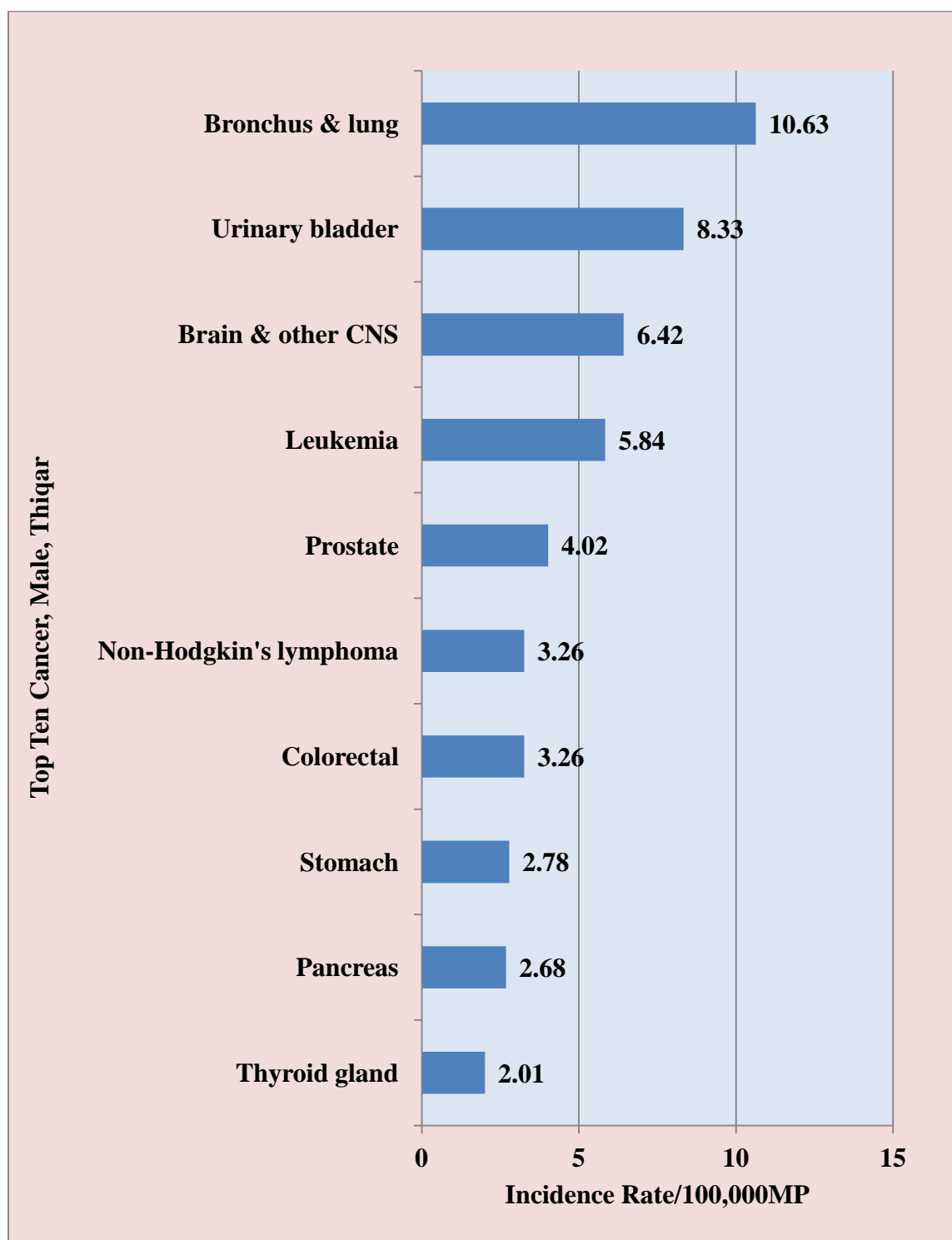


Table No.; (57) Distribution of Top Ten Cancer in Female, Thiqr, Iraq, 2016

Top ten cancer	No.	%
Breast	164	23.94
Bronchus & lung	56	8.18
Thyroid gland	40	5.84
Brain & other CNS*	39	5.69
Urinary bladder	33	4.82
Leukemia**	32	4.67
Colorectal	31	4.53
Ovary	31	4.53
Pancreas	29	4.23
Non-Hodgkin's lymphoma***	27	3.94
Total other site cancer	203	29.63
Total cancers in Thiqr	685	100.00%

*Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

**Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

*** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (49) Incidence Rate (Per 100,000FP) of Top Ten Cases in Female, Thiqar, Iraq, 2016

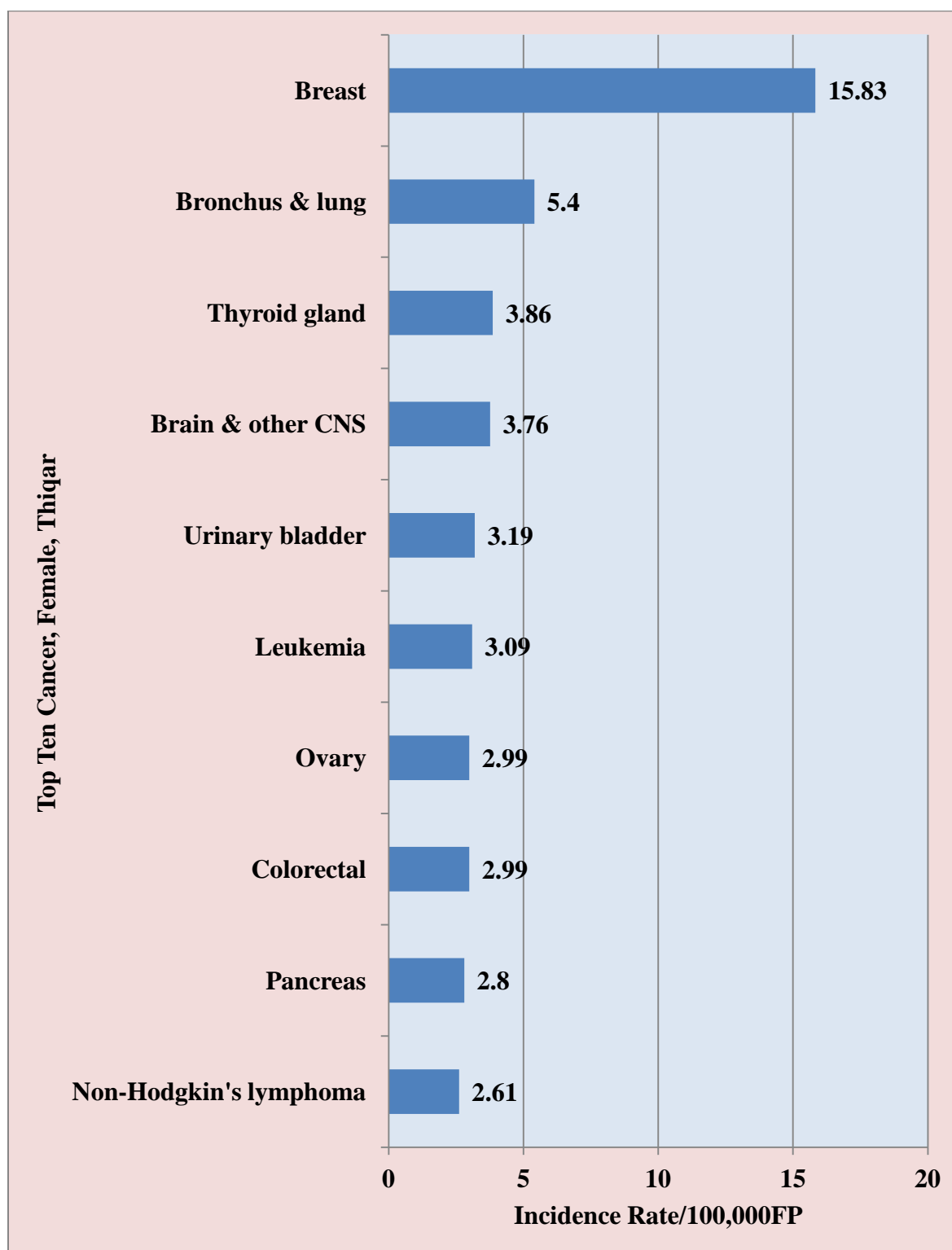


Table No.; (58) Distribution of Top Ten Cancer by Districts in Male, Thiqr, Iraq, 2016

Top ten	Nassiryiah		Riffaey		Sook Al-Shiookh		Shatter		Jabaish		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Bronchus & lung	59	21.00	19	21.11	12	25.53	21	24.42	0	0.00	111	21.60
Urinary bladder	45	16.01	23	25.56	2	4.26	14	16.28	3	30.00	87	16.93
Brain & other CNS	42	14.95	8	8.89	3	6.38	13	15.12	1	10.00	67	13.04
Leukemia	35	12.46	8	8.89	8	17.02	7	8.14	3	30.00	61	11.87
Prostate	25	8.90	4	4.44	6	12.77	7	8.14	0	0.00	42	8.17
Colorectal	15	5.34	7	7.78	4	8.51	7	8.14	1	10.00	34	6.61
Non-Hodgkin's lymphoma	15	5.34	7	7.78	3	6.38	7	8.14	2	20.00	34	6.61
Stomach	15	5.34	5	5.56	5	10.64	4	4.65	0	0.00	29	5.64
Pancreas	17	6.05	5	5.56	2	4.26	4	4.65	0	0.00	28	5.45
Thyroid gland	13	4.63	4	4.44	2	4.26	2	2.33	0	0.00	21	4.09
Total	281	100.00	90	100.00	47	100.00	86	100.00	10	100.00	514	100.00

Table No.; (59) Distribution of Top Ten Cancer by Districts in Female, Thiqr, Iraq, 2016

Top ten	Nassiryiah		Riffaey		Sook Al-Shiookh		Shatter		Jabaish		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Brest	92	34.72	30	38.96	11	22.00	28	35.44	3	27.27	164	34.02
Bronchus & lung	25	9.43	12	15.58	9	18.00	8	10.13	2	18.18	56	11.62
Thyroid gland	16	6.04	6	7.79	7	14.00	10	12.66	1	9.09	40	8.30
Brain & other CNS	27	10.19	4	5.19	4	8.00	3	3.80	1	9.09	39	8.09
Urinary bladder	21	7.92	4	5.19	1	2.00	7	8.86	0	0.00	33	6.85
Leukemia	13	4.91	5	6.49	6	12.00	7	8.86	1	9.09	32	6.64
Colorectal	19	7.17	3	3.90	4	8.00	4	5.06	1	9.09	31	6.43
Ovary	18	6.79	3	3.90	5	10.00	4	5.06	1	9.09	31	6.43
Pancreas	17	6.42	4	5.19	3	6.00	4	5.06	1	9.09	29	6.02
Non-Hodgkin's lymphoma	17	6.42	6	7.79	0	0.00	4	5.06	0	0.00	27	5.60
Total	265	100.00	77	100.00	50	100.00	79	100.00	11	100.00	482	100.00

Table No.; (60) Distribution of Top Ten Cancer in Male, Wasit, Iraq, 2016

Top ten cancer	No.	%
Urinary bladder	48	12.98
Bronchus & lung	45	12.17
Leukemia*	34	9.19
Non-Hodgkin lymphomas**	29	7.84
Brain & other CNS***	28	7.57
Colorectal	26	7.03
Prostate	24	6.48
Skin	15	4.05
Kidney	14	3.78
Larynx	14	3.78
Total other site cancer	93	25.13
Total cancers in Wasit	370	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

***Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

Figure No.; (50) Incidence Rate (Per 100,000MP) of Top Ten Cases in Male, Wasit, Iraq, 2016

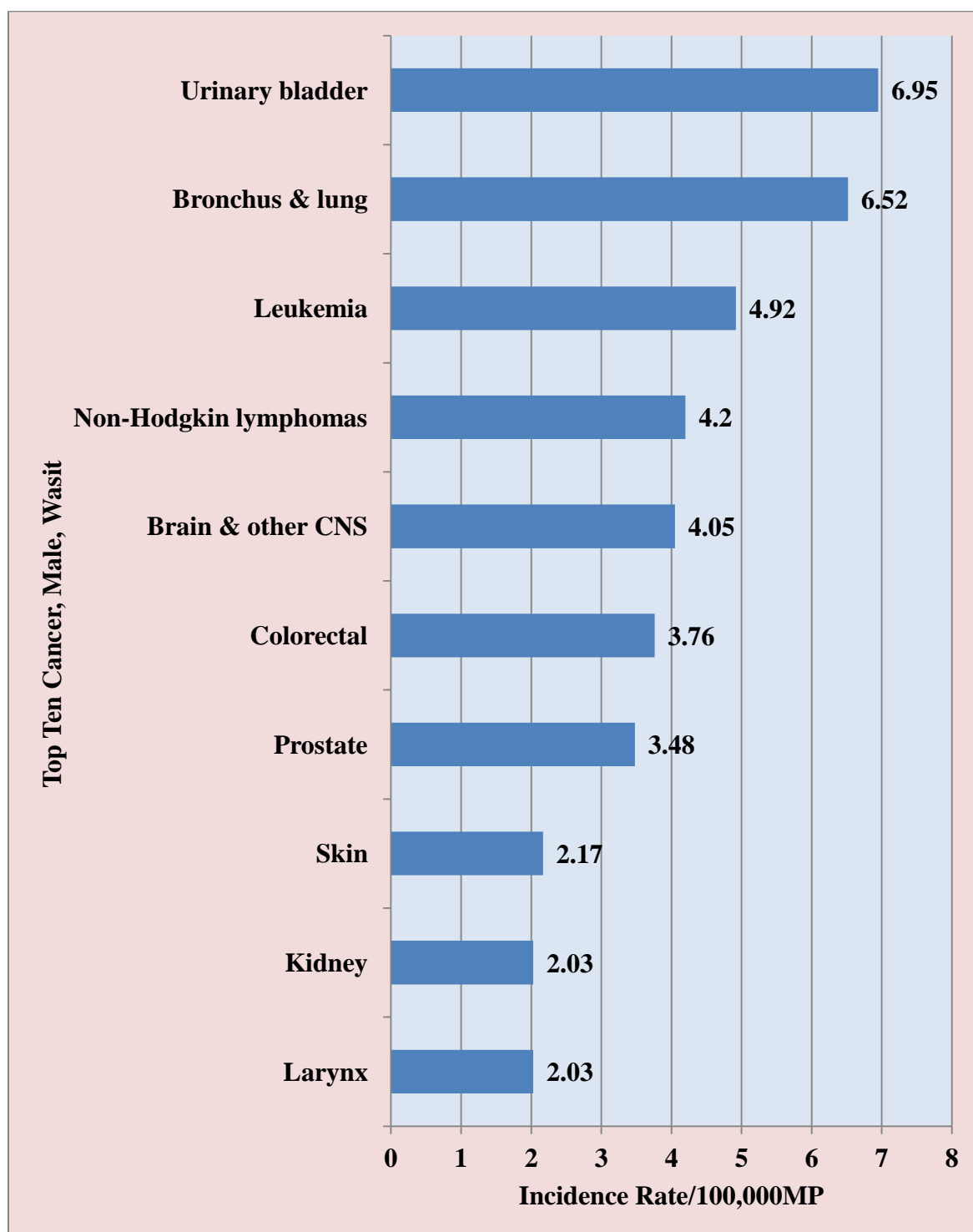


Table No.; (61) Distribution of Top Ten Cancer in Female, Wasit, Iraq, 2016

Top ten cancer	No.	%
Breast	143	29.67
Leukemia*	33	6.85
Bronchus & lung	33	6.85
Thyroid gland	30	6.22
Brain & other CNS**	26	5.39
Urinary bladder	24	4.98
Ovary	21	4.36
Colorectal	20	4.15
Skin	19	3.94
Pancreas	15	3.11
Total other site cancer	118	24.48
Total cancers in Wasit	482	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

Figure No.; (51) Incidence Rate (Per 100,000FP) of Top Ten Cases in Female, Wasit, Iraq, 2016

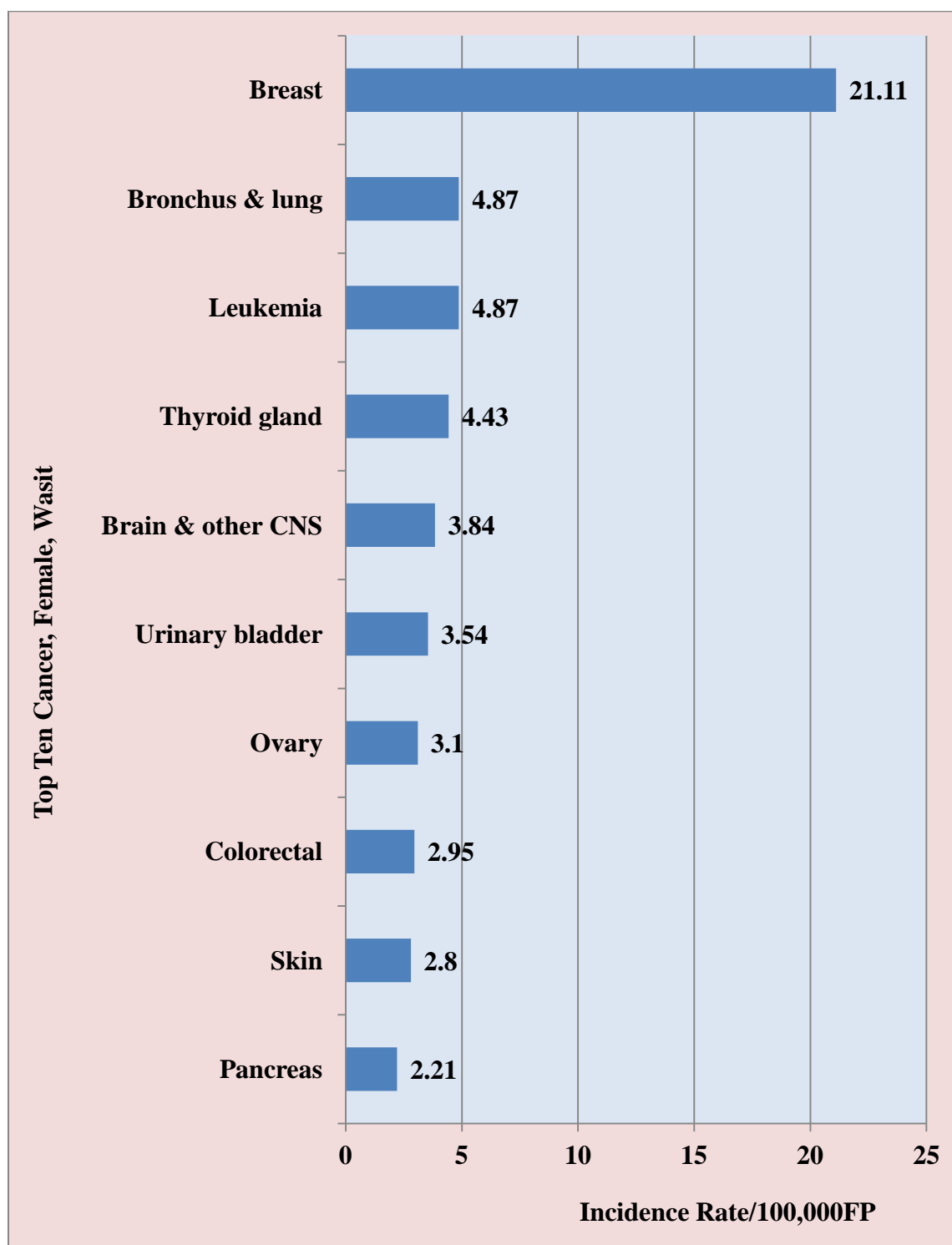


Table No.; (62) Distribution of Top Ten Cancer by Districts in Male, Wasit, Iraq, 2016

Top ten	Kut		Numanian		Hay		Badra		Al-Suarrah		Al-Aziziya		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Urinary bladder	27	16.27	5	27.78	5	25	1	50.00	6	14.29	4	13.79	48	17.33
Bronchus & lung	26	15.66	1	5.56	2	10	1	50.00	8	19.05	7	24.14	45	16.25
Leukemia	22	13.25	1	5.56	1	5	0	0.00	7	16.67	3	10.34	34	12.27
Non-Hodgkin lymphomas	16	9.64	2	11.11	0	0	0	0.00	6	14.29	5	17.24	29	10.47
Brain & other CNS	17	10.24	3	16.67	4	20	0	0.00	2	4.76	2	6.90	28	10.11
Colorectal	20	12.05	0	0.00	3	15	0	0.00	1	2.38	2	6.90	26	9.39
Prostate	10	6.02	4	22.22	1	5	0	0.00	7	16.67	2	6.90	24	8.66
Skin	12	7.23	1	5.56	1	5	0	0.00	0	0.00	1	3.45	15	5.42
Larynx	6	3.61	1	5.56	1	5	0	0.00	5	11.90	1	3.45	14	5.05
Kidney	10	6.02	0	0.00	2	10	0	0.00	0	0.00	2	6.90	14	5.05
Total	166	100.00	18	100.00	20	100	2	100.00	42	100.00	29	100.00	277	100.00

Table No.; (63) Distribution of Top Ten Cancer by Districts in Female, Wasit, Iraq, 2016

Top ten	Kut		Numanian		Hay		Badra		Al-Suarrah		Al-Aziziya		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Brest	88	42.31	7	30.43	10	30.30	3	37.50	25	37.31	10	40.00	143	39.29
Leukemia	18	8.65	2	8.70	6	18.18	0	0.00	6	8.96	1	4.00	33	9.07
Bronchus & lung	20	9.62	1	4.35	6	18.18	0	0.00	4	5.97	2	8.00	33	9.07
Thyroid gland	14	6.73	2	8.70	2	6.06	1	12.50	6	8.96	5	20.00	30	8.24
Brain	14	6.73	3	13.04	3	9.09	0	0.00	5	7.46	1	4.00	26	7.14
Urinary bladder	14	6.73	2	8.70	3	9.09	0	0.00	4	5.97	1	4.00	24	6.59
Ovary	13	6.25	2	8.70	0	0.00	1	12.50	3	4.48	2	8.00	21	5.77
Colorectal	10	4.81	1	4.35	0	0.00	1	12.50	6	8.96	2	8.00	20	5.49
Skin	10	4.81	2	8.70	1	3.03	1	12.50	5	7.46	0	0.00	19	5.22
Pancreas	7	3.37	1	4.35	2	6.06	1	12.50	3	4.48	1	4.00	15	4.12
Total	208	100.00	23	100.00	33	100.00	8	100.00	67	100.00	25	100.00	364	100.00

**Table No.; (64) Distribution of Top Ten Cancer by District in Male, Diwanyia,
Iraq, 2016**

Top ten cancer	No.	%
Bronchus & lung	64	15.17
Urinary bladder	52	12.32
Prostate	39	9.24
Leukemia*	32	7.58
Non-Hodgkin's lymphoma**	29	6.87
Skin	23	5.45
Brain & other CNS***	22	5.22
Thyroid gland	21	4.98
Colorectal	21	4.98
Glottis / larynx	17	4.03
Total other site cancer	102	24.16
Total cancers in Diwaniya	422	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

***Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

**Figure No.; (52) Incidence Rate (Per 100,000MP) of Top Ten Cases in Male,
Diwanyia, Iraq, 2016**

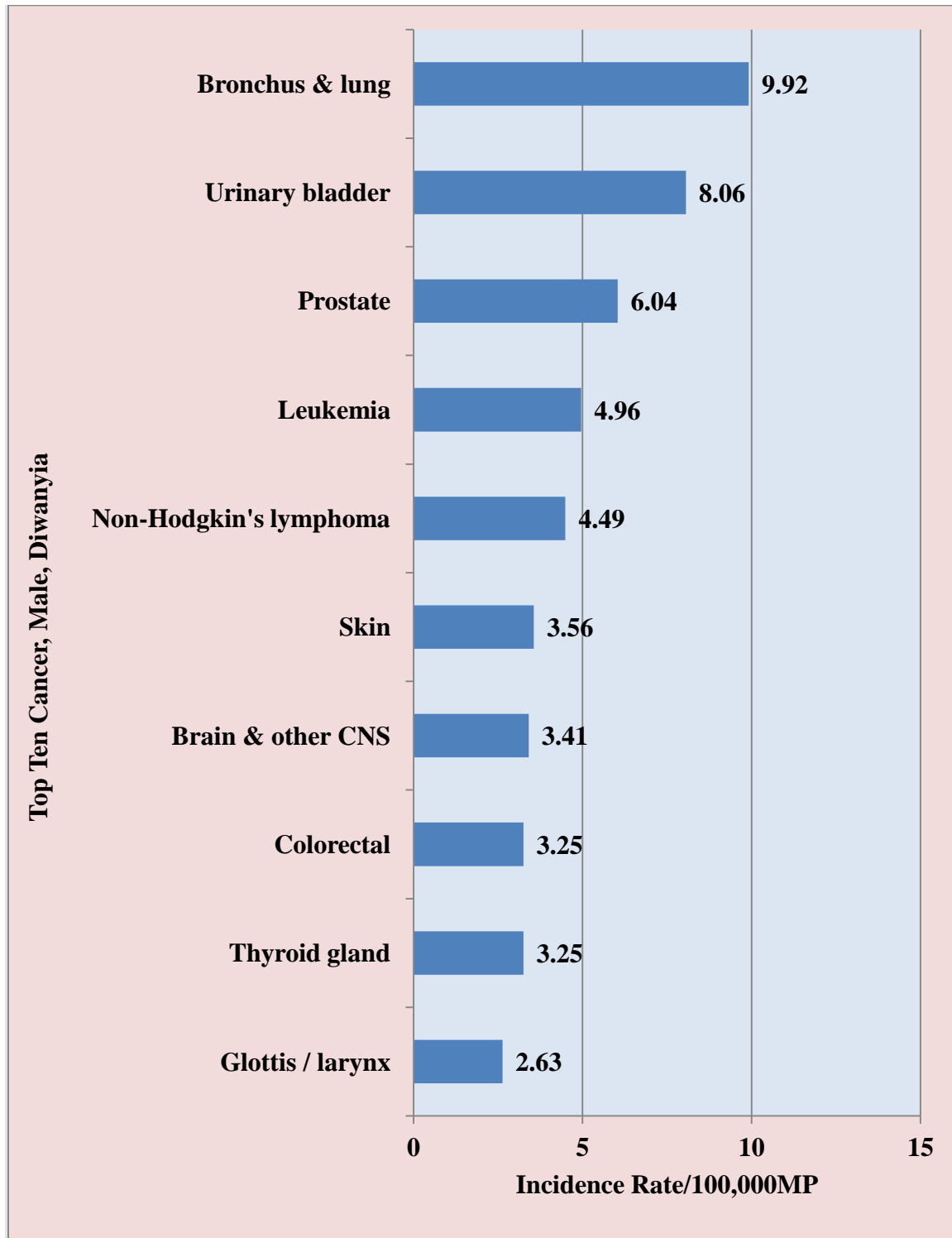


Table No.; (65) Distribution of Top Ten Cancer by District in Female, Diwaniya, Iraq, 2016

Top ten cancer	No.	%
Breast	136	26.62
Thyroid gland	44	8.62
Colorectal	36	7.04
Leukemia*	34	6.65
Bronchus & lung	33	6.45
Non-Hodgkin's lymphoma**	30	5.87
Urinary bladder	23	4.50
Ovary	20	3.92
Brain & other CNS***	19	3.71
Skin	14	2.74
Total other site cancer	122	23.88
Total cancers in Diwaniya	511	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

***Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

Figure No.; (53) Incidence Rate (Per 100,000FP) of Top Ten Cases in Female, Diwanyia, Iraq, 2016

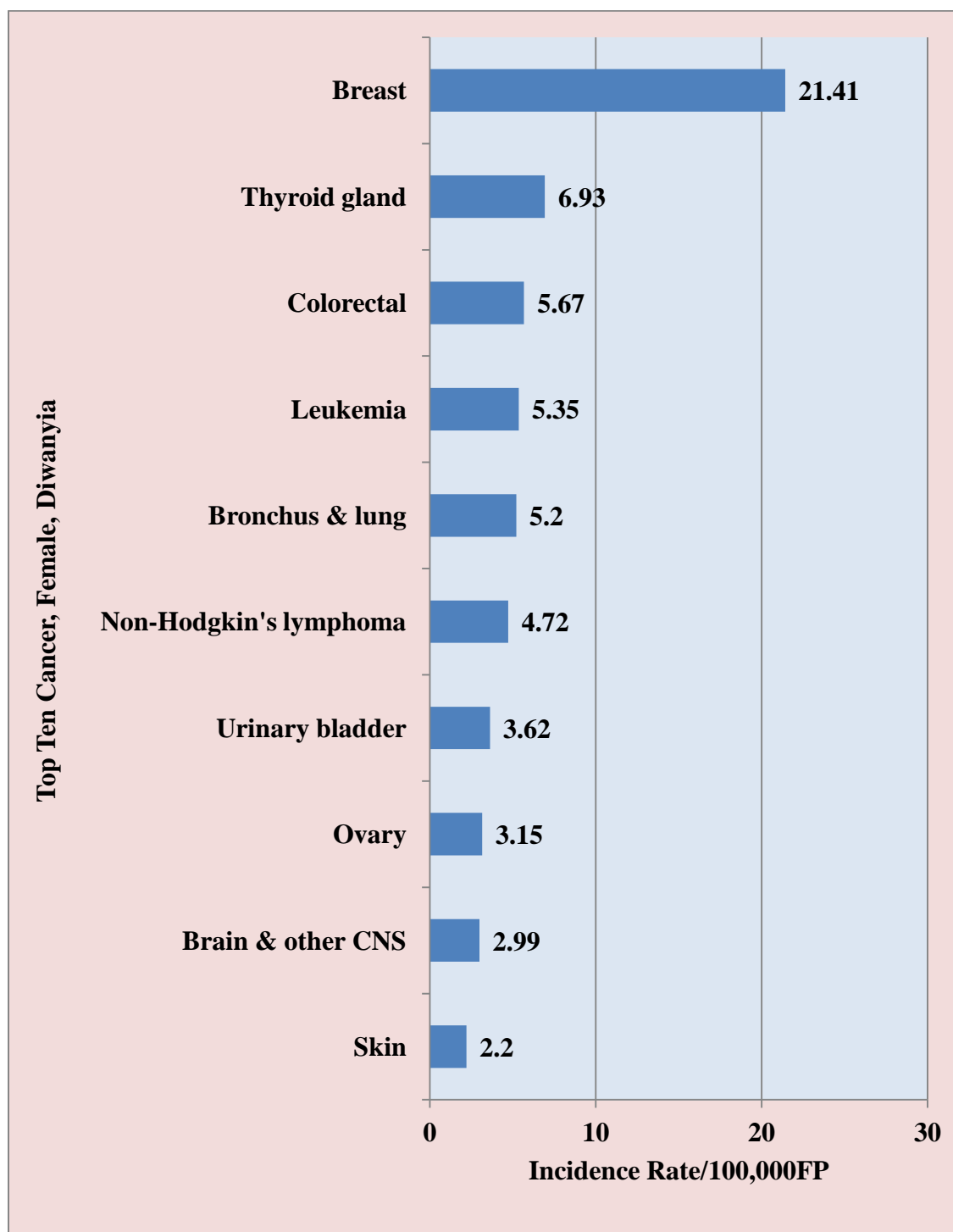


Table No.; (66) Distribution of Top Ten Cancer by Districts in Male, Diwanya, Iraq, 2016

Top ten	Diwaniya		Affak		Shamiah		Hamza		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%
Bronchus & lung	48	22.54	2	8.33	6	14.29	8	19.51	64	20.00
Urinary bladder	32	15.02	7	29.17	8	19.05	5	12.20	52	16.25
Prostate	29	13.62	1	4.17	5	11.90	4	9.76	39	12.19
Leukemia	17	7.98	5	20.83	6	14.29	4	9.76	32	10.00
Non-Hodgkin's lymphoma	19	8.92	2	8.33	5	11.90	3	7.32	29	9.06
Skin	19	8.92	1	4.17	1	2.38	2	4.88	23	7.19
Brain & other CNS	14	6.57	4	16.67	0	0.00	4	9.76	22	6.88
Thyroid gland	14	6.57	0	0.00	5	11.90	2	4.88	21	6.56
colorectal	10	4.69	0	0.00	5	11.90	6	14.63	21	6.56
Glottis / Larynx	11	5.16	2	8.33	1	2.38	3	7.32	17	5.31
Total	213	100.00	24	100.00	42	100.00	41	100.00	320	100.00

Table No.; (67) Distribution of Top Ten Cancer by Districts in Female, Diwaniya, Iraq, 2016

Top ten	Diwaniya		Affak		Shamiah		Hamza		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%
Breast	96	36.23	6	23.08	17	31.48	17	38.64	136	34.96
Thyroid gland	28	10.57	5	19.23	5	9.26	6	13.64	44	11.31
Colorectal	28	10.57	1	3.85	2	3.70	5	11.36	36	9.25
Leukemia	28	10.57	3	11.54	1	1.85	2	4.55	34	8.74
Bronchus & lung	21	7.92	1	3.85	9	16.67	2	4.55	33	8.48
Non-Hodgkin's lymphoma	15	5.66	3	11.54	6	11.11	6	13.64	30	7.71
Urinary bladder	14	5.28	4	15.38	5	9.26	0	0.00	23	5.91
Ovary	12	4.53	2	7.69	4	7.41	2	4.55	20	5.14
Brain & other CNS	12	4.53	1	3.85	3	5.56	3	6.82	19	4.88
Skin	11	4.15	0	0.00	2	3.70	1	2.27	14	3.60
Total	265	100.00	26	100.00	54	100.00	44	100.00	389	100.00

Table No.; (68) Distribution of Top Ten Cancer in Male, Kirkuk, Iraq, 2016

Top ten cancer	No.	%
Leukemia*	46	12.33
Prostate	45	12.06
Bronchus & lung	35	9.38
Colorectal	29	7.77
Urinary bladder	28	7.51
Skin	23	6.17
Kidney	17	4.56
Brain & other CNS**	16	4.29
Larynx	15	4.02
Liver	14	3.75
Total other site cancer	105	28.15
Total cancers in Kirkuk	373	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

Figure No.; (54) Incidence Rate (Per 100,000MP) of Top Ten Cases in Male, Kirkuk, Iraq, 2016

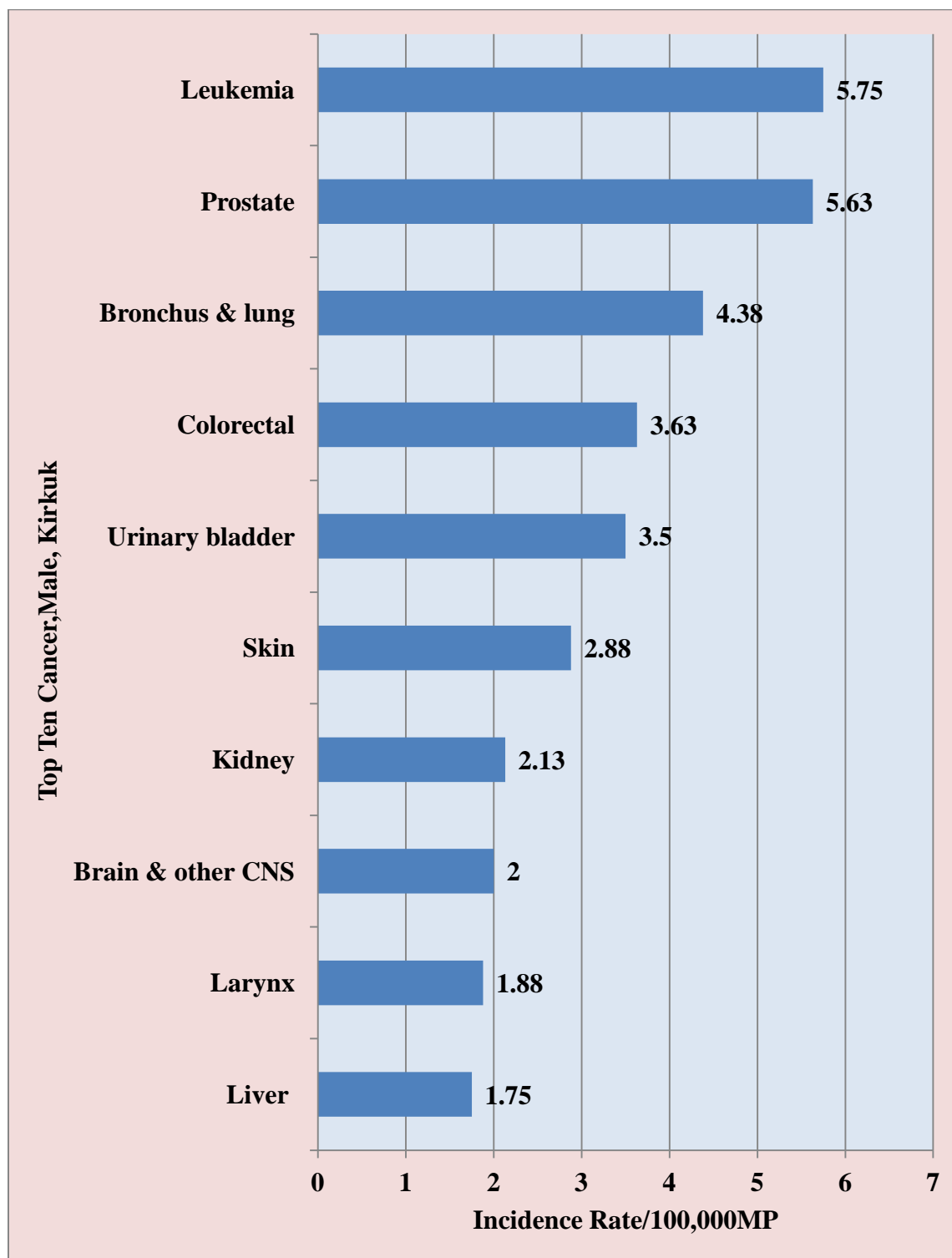


Table No.; (69) Distribution of Top Ten Cancer in Female, Kirkuk, Iraq, 2016

Top ten cancer	No.	%
Breast	219	43.37
Leukemia*	33	6.53
Colorectal	24	4.75
Ovary	21	4.16
Stomach	20	3.96
Skin	17	3.37
Thyroid gland	17	3.37
Bronchus & lung	15	2.97
Brain & other CNS**	13	2.57
Uterus	12	2.38
Total other site cancer	114	22.57
Total cancers in Kirkuk	505	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

**Figure No.; (55) Incidence Rate (Per 100,000FP) of Top Ten Cases in Female,
Kirkuk, Iraq, 2016**

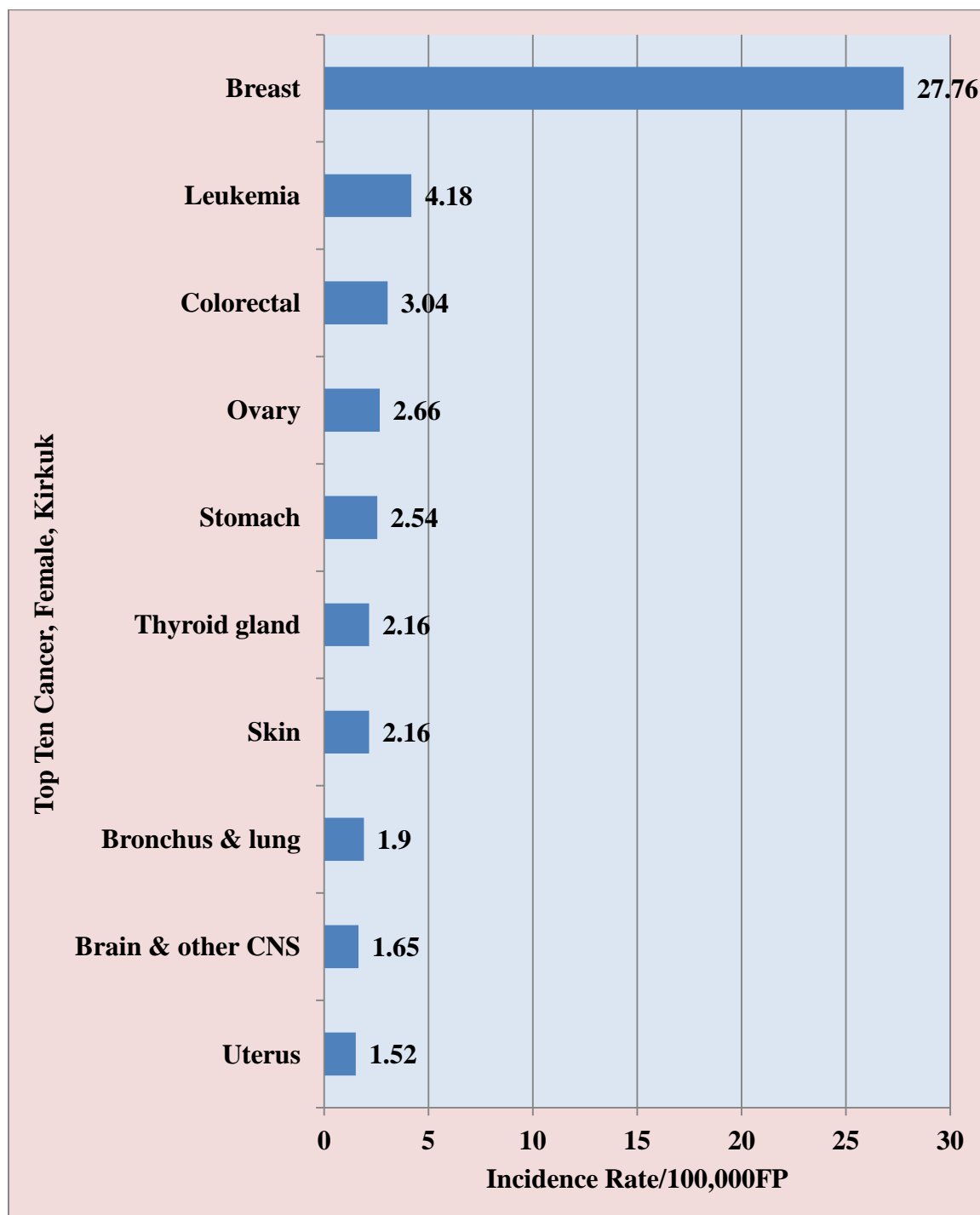


Table No.; (70) Distribution of Top Ten Cancer by Districts in Male, Kirkuk, Iraq, 2016

Top ten	Kirkuk		Al-Hawja		Dakook		Dibis		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%
Leukemia	42	16.94	0	0.00	1	9.09	3	60.00	46	17.16
Prostate	43	17.34	2	50.00	0	0.00	0	0.00	45	16.79
Bronchus & lung	34	13.71	1	25.00	0	0.00	0	0.00	35	13.06
colorectal	27	10.89	1	25.00	1	9.09	0	0.00	29	10.82
Urinary bladder	26	10.48	0	0.00	2	18.18	0	0.00	28	10.45
Skin	21	8.47	0	0.00	2	18.18	0	0.00	23	8.58
Kidney	16	6.45	0	0.00	0	0.00	1	20.00	17	6.34
Brain & other CNS	13	5.24	0	0.00	2	18.18	1	20.00	16	5.97
Glottis / Larynx	12	4.84	0	0.00	3	27.27	0	0.00	15	5.60
Liver	14	5.65	0	0.00	0	0.00	0	0.00	14	5.22
Total	248	100.00	4	100.00	11	100.00	5	100.00	268	100.00

Table No.; (71) Distribution of Top Ten Cancer by Districts in Female, Kirkuk, Iraq, 2016

Top ten	Kirkuk		Al-Hawja		Dakook		Dibis		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%
Breast	194	55.43	6	85.71	6	37.50	13	72.22	219	56.01
Leukemia	29	8.29	0	0.00	2	12.50	2	11.11	33	8.44
colorectal	20	5.71	0	0.00	3	18.75	1	5.56	24	6.14
Ovary	20	5.71	0	0.00	0	0.00	1	5.56	21	5.37
stomach	18	5.14	1	14.29	1	6.25	0	0.00	20	5.12
Skin	16	4.57	0	0.00	1	6.25	0	0.00	17	4.35
Thyroid gland	17	4.86	0	0.00	0	0.00	0	0.00	17	4.35
Bronchus & lung	14	4.00	0	0.00	1	6.25	0	0.00	15	3.84
Brain & other CNS	12	3.43	0	0.00	0	0.00	1	5.56	13	3.32
Uterus	10	2.86	0	0.00	2	12.50	0	0.00	12	3.07
Total	350	100.00	7	100.00	16	100.00	18	100.00	391	100.00

Table No.; (72) Distribution of Top Ten Cancer in Male, Sulaimaniya, Iraq, 2016

Top ten cancer	No.	%
Bronchus & lung	74	14.04
Prostate	45	8.54
Non-Hodgkin's lymphoma*	40	7.59
Colorectal	39	7.40
Leukemia**	38	7.21
Urinary bladder	32	6.07
Brain & other CNS***	30	5.69
Stomach	23	4.36
Kidney	21	3.98
Skin	17	3.23
Total other site cancer	168	31.89
Total cancers in Sulaimaniya	527	100.00%

* Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

**Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

***Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

Figure No.; (56) Incidence Rate (Per 100,000MP) of Top Ten Cases in Male, Sulaimaniya, Iraq, 2016

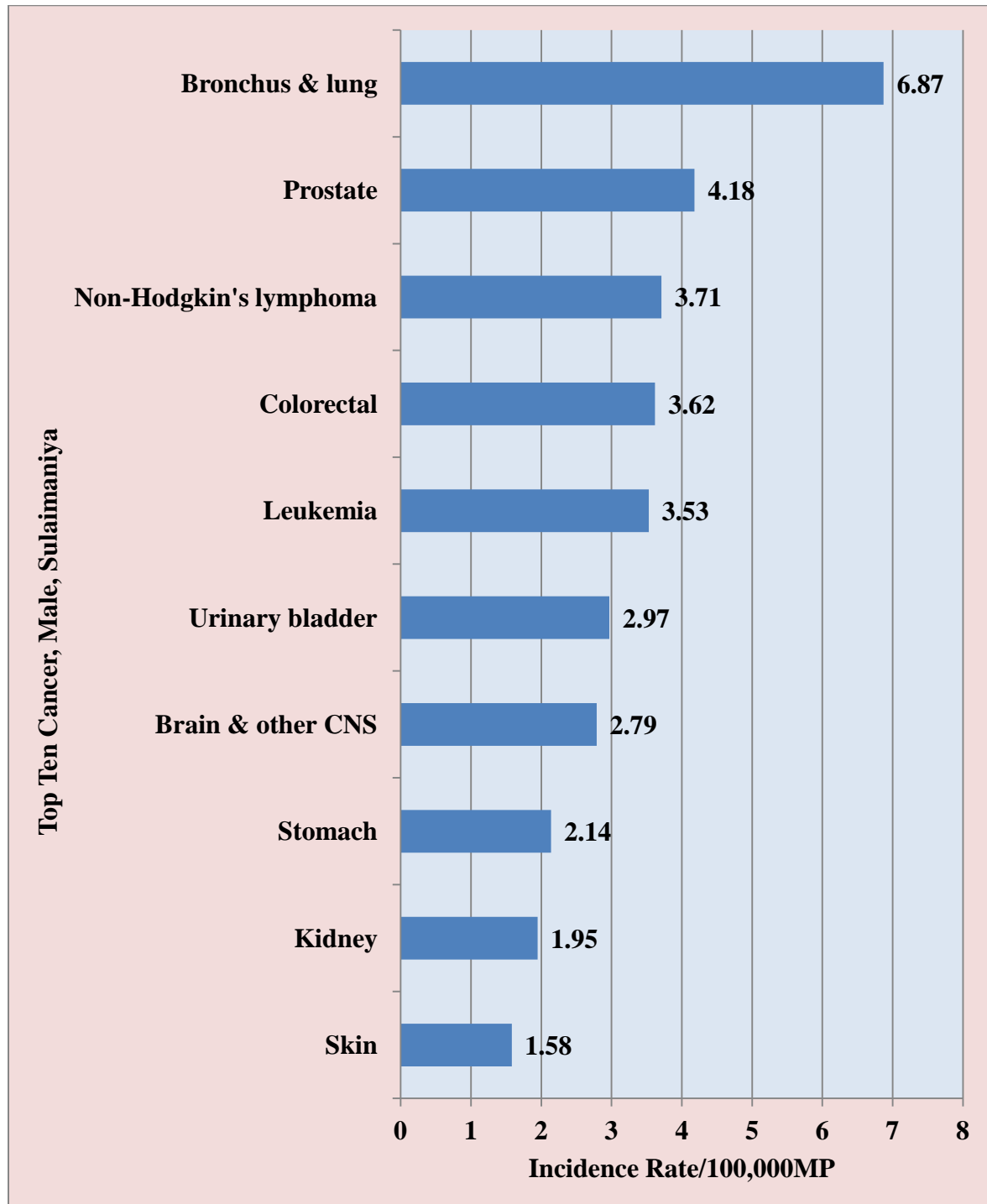


Table No.; (73) Distribution of Top Ten Cancer in Female, Sulaimaniya, Iraq, 2016

Top ten cancer	No.	%
Breast	187	35.69
Uterus	39	7.44
Colorectal	35	6.68
Thyroid gland	24	4.58
Leukemia*	22	4.20
Stomach	18	3.44
Pancreas	17	3.24
Brain & other CNS**	15	2.86
Non-Hodgkin's lymphoma***	14	2.67
Bronchus & lung	13	2.48
Total other site cancer	140	26.72
Total cancers in Sulaimaniya	524	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

*** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (57) Incidence Rate (Per 100,000FP) of Top Ten Cases in Female, Sulaimaniya, Iraq, 2016

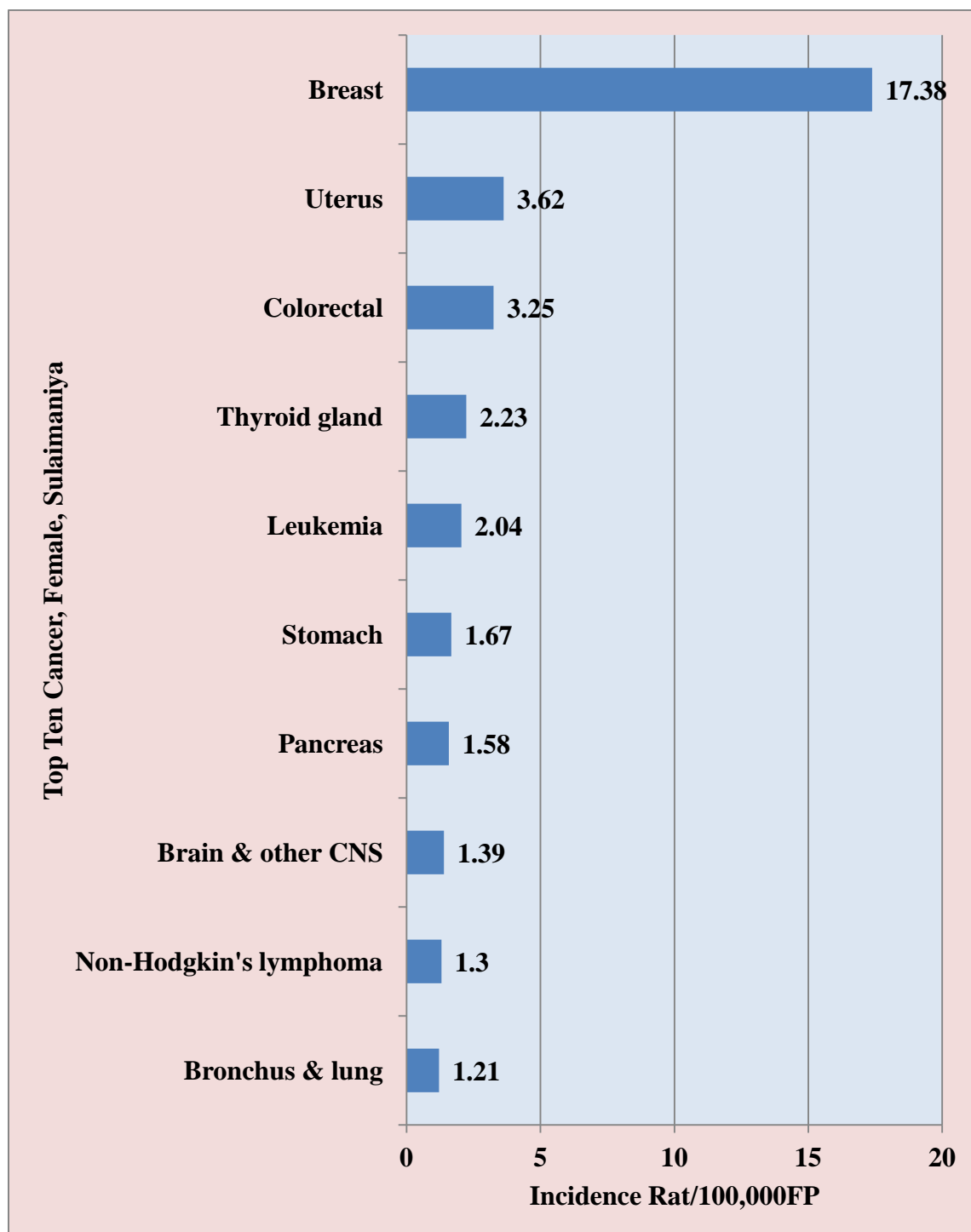


Table No.; (74) Distribution of Top Ten Cancer by Districts in Male, Sulaimaniya, Iraq, 2016

Top ten	Sulaimaniya		Halabja		Bashdar		Rania		Dokan		Der-bandy khan		Cham- Caamal		Kalar		Kefri		Shahrazur		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Bronchus & lung	41	19.90	5	17.86	1	16.67	13	32.50	2	15.38	0	0.00	5	21.74	7	21.88	0	0.00	0	0.00	74	20.61
Prostate	21	10.19	5	17.86	0	0.00	5	12.50	2	15.38	1	20.00	3	13.04	7	21.88	1	20.00	0	0.00	45	12.53
Non-Hodgkin's lymphoma	24	11.65	2	7.14	0	0.00	3	7.50	4	30.77	0	0.00	1	4.35	5	15.63	1	20.00	0	0.00	40	11.14
Colorectal	28	13.59	3	10.71	1	16.67	5	12.50	0	0.00	0	0.00	1	4.35	1	3.13	0	0.00	0	0.00	39	10.86
Leukemia	17	8.25	4	14.29	0	0.00	4	10.00	2	15.38	0	0.00	6	26.09	4	12.50	1	20.00	0	0.00	38	10.58
Urinary bladder	19	9.22	2	7.14	0	0.00	4	10.00	1	7.69	1	20.00	3	13.04	2	6.25	0	0.00	0	0.00	32	8.91
Brain & other CNS	19	9.22	3	10.71	2	33.33	2	5.00	1	7.69	1	20.00	0	0.00	1	3.13	1	20.00	0	0.00	30	8.36
stomach	11	5.34	2	7.14	1	16.67	1	2.50	0	0.00	1	20.00	3	13.04	3	9.38	0	0.00	1	100.00	23	6.41
Kidney	14	6.80	1	3.57	1	16.67	2	5.00	0	0.00	1	20.00	1	4.35	0	0.00	1	20.00	0	0.00	21	5.85
Skin	12	5.83	1	3.57	0	0.00	1	2.50	1	7.69	0	0.00	0	0.00	2	6.25	0	0.00	0	0.00	17	4.74
Total	206	100.00	28	100.00	6	100.00	40	100.00	13	100.00	5	100.00	23	100.00	32	100.00	5	100.00	1	100.00	359	100.00

Table No.; (75) Distribution of Top Ten Cancer by Districts in Female, Sulaimaniya, Iraq, 2016

Top ten	Sulaimaniya		Bashdar		Rania		Dokan		Der-bandykhan		Cham-Caamal		Kalar		Kefri		Halabcha		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Breast	111	45.12	7	87.50	19	50.00	4	66.67	1	25.00	16	64.00	22	62.86	0	0.00	7	36.84	187	48.70
Uterus	24	9.76	0	0.00	5	13.16	0	0.00	0	0.00	3	12.00	4	11.43	0	0.00	3	15.79	39	10.16
Colorectal	26	10.57	0	0.00	3	7.89	0	0.00	1	25.00	1	4.00	3	8.57	1	33.33	0	0.00	35	9.11
Bronchus & lung	8	3.25	0	0.00	2	5.26	1	16.67	1	25.00	0	0.00	0	0.00	0	0.00	1	5.26	13	3.39
Brain & other CNS	9	3.66	0	0.00	2	5.26	1	16.67	0	0.00	0	0.00	2	5.71	0	0.00	1	5.26	15	3.91
Leukemia	15	6.10	0	0.00	0	0.00	0	0.00	1	25.00	3	12.00	1	2.86	0	0.00	2	10.53	22	5.73
Non-Hodgkin's lymphoma	10	4.07	1	12.50	1	2.63	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	2	10.53	14	3.65
Pancreas	14	5.69	0	0.00	2	5.26	0	0.00	0	0.00	0	0.00	1	2.86	0	0.00	0	0.00	17	4.43
stomach	10	4.07	0	0.00	2	5.26	0	0.00	0	0.00	1	4.00	0	0.00	2	66.67	3	15.79	18	4.69
Total	246	100.00	8	100.00	38	100.00	6	100.00	4	100.00	25	100.00	35	100.00	3	100.00	19	100.00	384	100.00

Table No.; (76) Distribution of Top Ten Cancer in Male, Misan, Iraq, 2016

Top ten cancer	No.	%
Bronchus & lung	52	15.62
Leukemia*	30	9.01
Urinary bladder	27	8.11
Colorectal	22	6.61
Non-Hodgkin's lymphoma**	22	6.61
Prostate	21	6.31
Brain & other CNS***	17	5.10
Stomach	16	4.80
Pancreas	14	4.20
Kidney	13	3.90
Total other site cancer	99	29.73
Total cancers in Misan	333	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

***Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

Figure No.; (58) Incidence Rate (Per 100,000MP) of Top Ten Cases in Male, Misan, Iraq, 2016

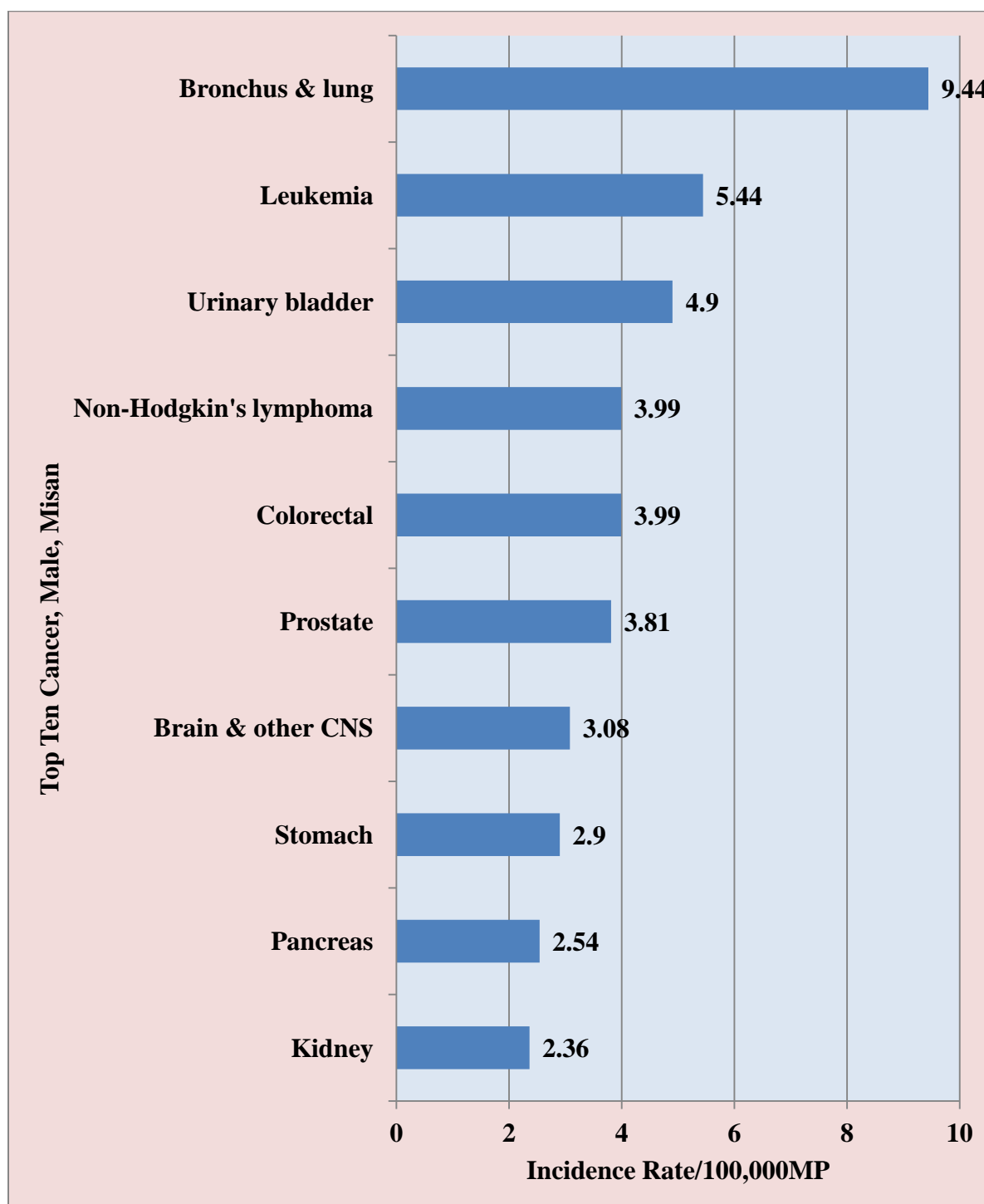


Table No.; (77) Distribution of Top Ten Cancer in Female, Misan, Iraq, 2016

Top ten cancer	No.	%
Breast	111	33.74
Thyroid gland	21	6.39
Non-Hodgkin lymphomas*	20	6.07
Colorectal	17	5.17
Leukemia**	15	4.56
Uterus	15	4.56
Brain & other CNS***	13	3.95
Stomach	13	3.95
Ovary	12	3.64
Liver	12	3.64
Total other site cancer	80	24.33
Total cancers in Misan	329	100.00%

* Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

**Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

***Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

**Figure No.; (59) Incidence Rate (Per 100,000FP) of Top Ten Cases in Female,
Misan, Iraq, 2016**

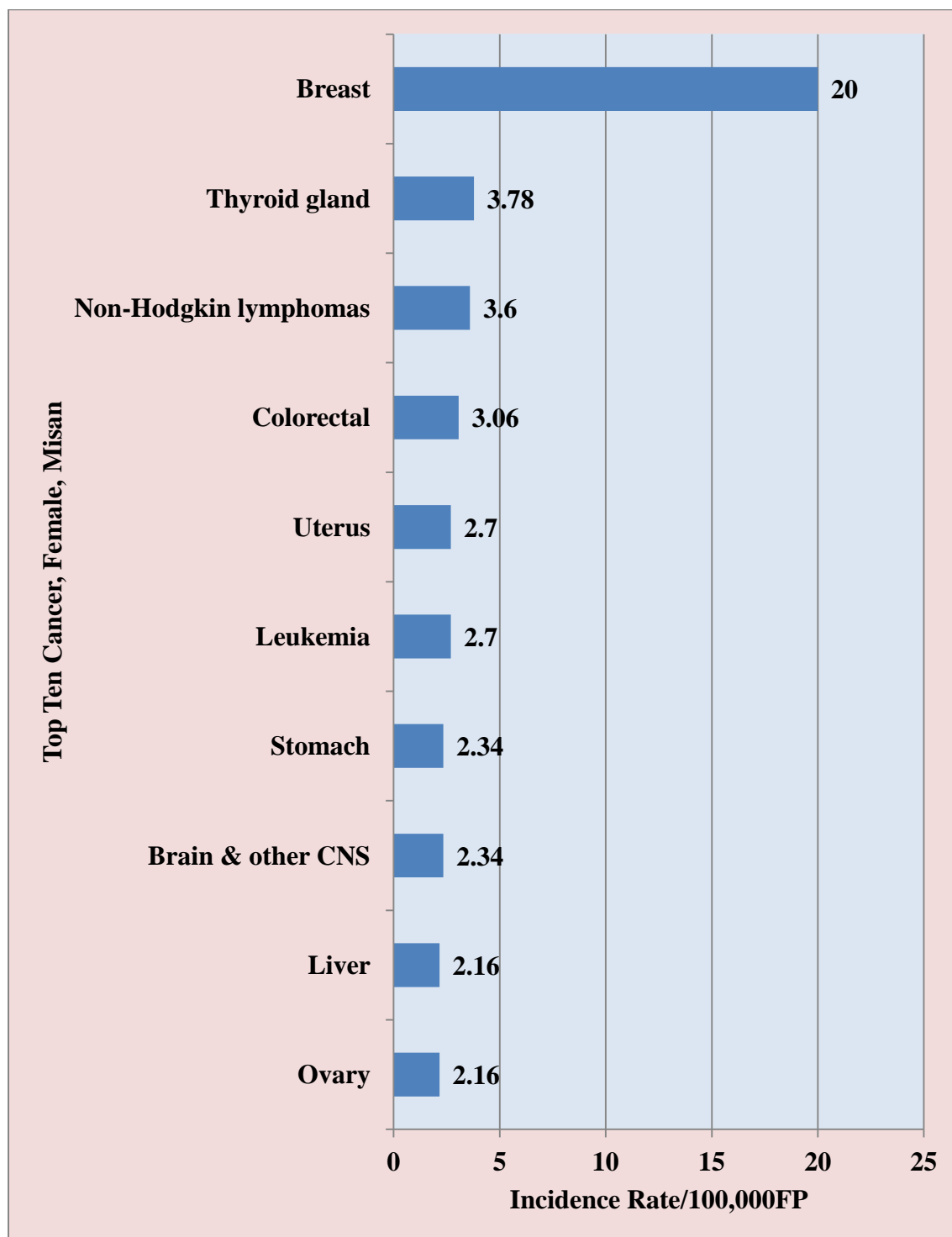


Table No.; (78) Distribution of Top Ten Cancer by Districts in Male, Misan, Iraq, 2016

Top ten	Ammarah		Ali-Algerbi		Maymoona		Qalat-Salih		Almajara Kabeer		Kahlaa		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Bronchus & lung	39	23.49	0	0.00	4	28.57	3	17.65	3	13.04	3	30.00	52	22.22
Leukemia	21	12.65	2	50.00	1	7.14	2	11.76	2	8.70	2	20.00	30	12.82
Urinary bladder	18	10.84	0	0.00	4	28.57	2	11.76	3	13.04	0	0.00	27	11.54
Colorectal	13	7.83	1	25.00	2	14.29	2	11.76	2	8.70	2	20.00	22	9.40
Non-Hodgkin's lymphoma	17	10.24	1	25.00	1	7.14	1	5.88	1	4.35	1	10.00	22	9.40
Prostate	12	7.23	0	0.00	0	0.00	2	11.76	6	26.09	1	10.00	21	8.97
Brain & other CNS	13	7.83	0	0.00	1	7.14	2	11.76	1	4.35	0	0.00	17	7.26
Stomach	13	7.83	0	0.00	0	0.00	1	5.88	2	8.70	0	0.00	16	6.84
Pancreas	11	6.63	0	0.00	1	7.14	0	0.00	1	4.35	1	10.00	14	5.98
Kidney	9	5.42	0	0.00	0	0.00	2	11.76	2	8.70	0	0.00	13	5.56
Total	166	100.00	4	100.00	14	100.00	17	100.00	23	100.00	10	100.00	234	100.00

Table No.; (79) Distribution of Top Ten Cancer by Districts in Female, Misan, Iraq, 2016

Top ten	Ammarah		Ali-Algerbi		Maymoona		Qalat-Salih		Almajara Kabeer		Kahlaa		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Breast	80	44.44	3	50.00	6	66.67	10	45.45	9	37.50	3	37.50	111	44.58
Thyroid gland	15	8.33	0	0.00	0	0.00	1	4.55	5	20.83	0	0.00	21	8.43
Non-Hodgkin lymphomas	14	7.78	1	16.67	0	0.00	2	9.09	3	12.50	0	0.00	20	8.03
Colorectal	11	6.11	0	0.00	1	11.11	3	13.64	1	4.17	1	12.50	17	6.83
Leukemia	10	5.56	2	33.33	0	0.00	1	4.55	1	4.17	1	12.50	15	6.02
Uterus	12	6.67	0	0.00	0	0.00	1	4.55	2	8.33	0	0.00	15	6.02
Brain & other CNS	8	4.44	0	0.00	1	11.11	1	4.55	1	4.17	2	25.00	13	5.22
Stomach	11	6.11	0	0.00	0	0.00	1	4.55	1	4.17	0	0.00	13	5.22
Ovary	10	5.56	0	0.00	1	11.11	0	0.00	1	4.17	0	0.00	12	4.82
Liver	9	5.00	0	0.00	0	0.00	2	9.09	0	0.00	1	12.50	12	4.82
Total	180	100.00	6	100.00	9	100.00	22	100.00	24	100.00	8	100.00	249	100.00

Table No.; (80) Distribution of Top Ten Cancer in Male, Muthana, Iraq, 2016

Top ten cancer	No.	%
Leukemia*	32	14.55
Bronchus & lung	30	13.64
Urinary bladder	27	12.27
Colorectal	17	7.72
Thyroid gland	14	6.36
Prostate	12	5.45
Non-Hodgkin's lymphoma**	12	5.45
Pancreas	10	4.55
Liver	9	4.09
Brain & other CNS***	7	3.18
Total other site cancer	50	22.74
Total cancers in Muthana	220	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

***Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

Figure No.; (60) Incidence Rate (Per 100,000MP) of Top Ten Cases in Male, Muthana, Iraq, 2016

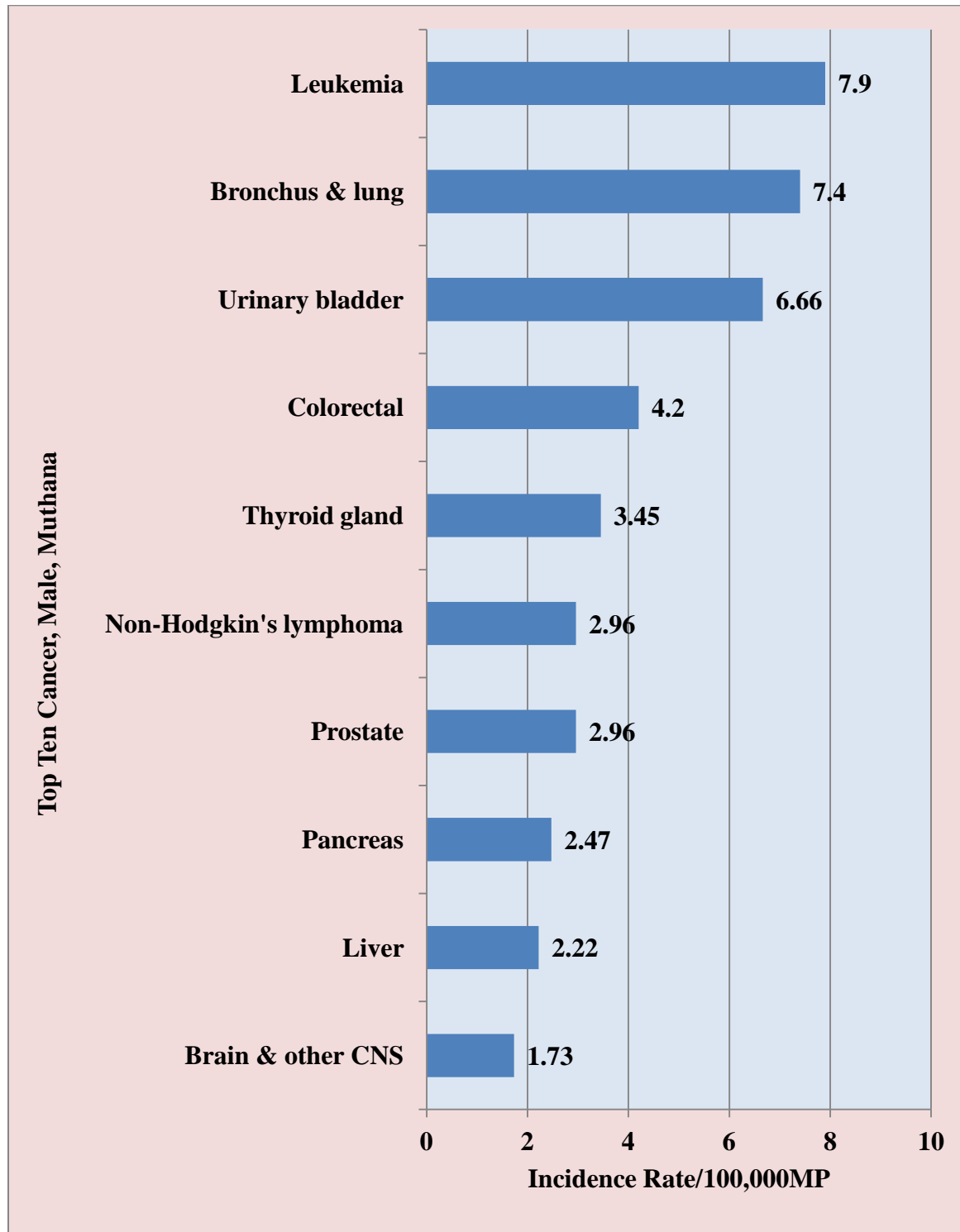


Table No.; (81) Distribution of Top Ten Cancer in Female, Muthana, Iraq, 2016

Top ten cancer	No.	%
Breast	66	27.27
Thyroid gland	36	14.88
Colorectal	18	7.43
Bronchus & lung	15	6.20
Urinary bladder	10	4.13
Leukemia*	10	4.13
Non-Hodgkin's lymphoma**	10	4.13
Brain & other CNS***	9	3.72
Pancreas	8	3.31
Ovary	7	2.89
Total other site cancer	53	21.91
Total cancers in Muthana	242	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

***Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

Figure No.; (61) Incidence Rate (Per 100,000FP) of Top Ten Cases in Female, Muthana, Iraq, 2016

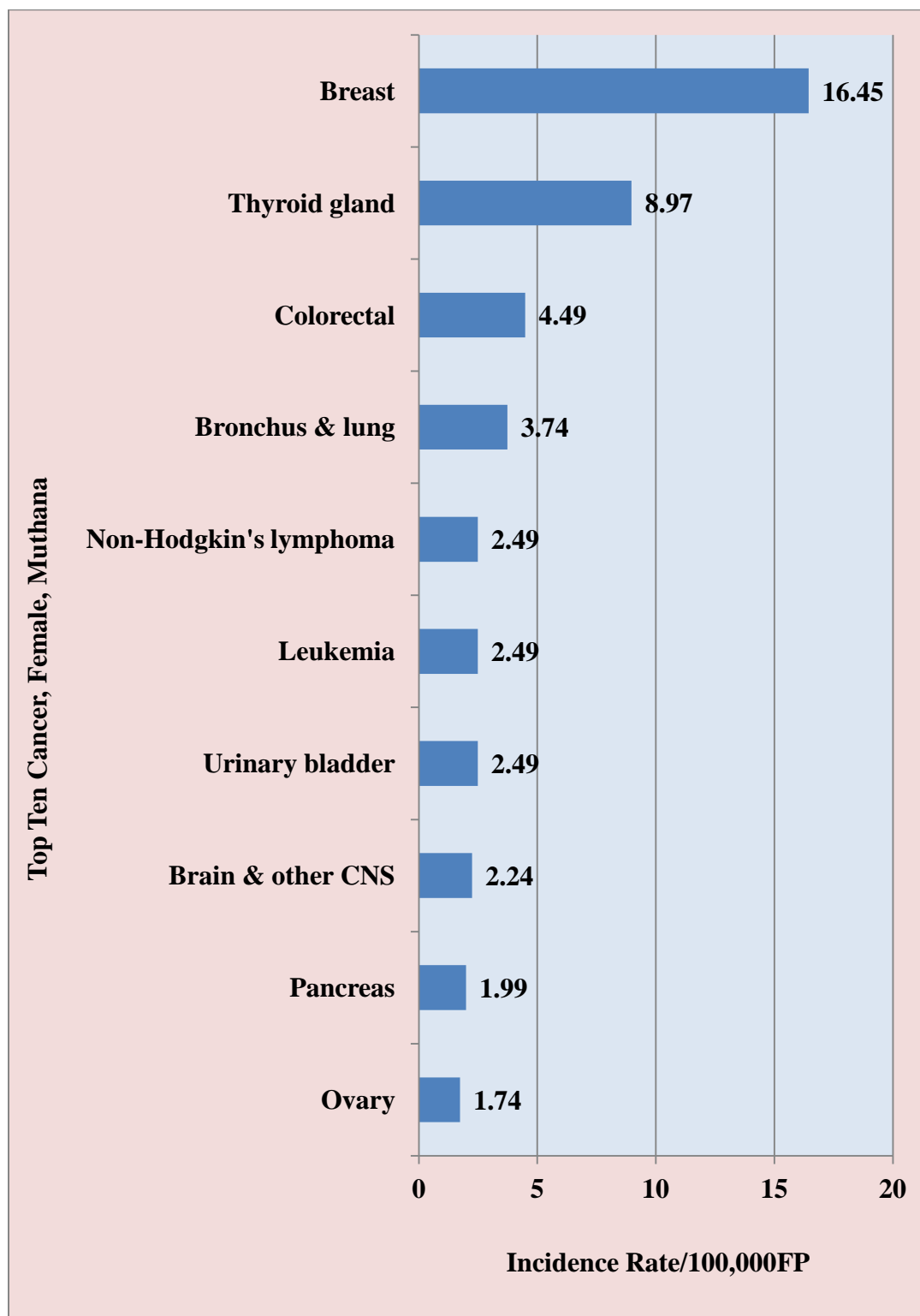


Table No.; (82) Distribution of Top Ten Cancer by Districts in Male, Muthana, Iraq, 2016

Top ten	Samawa		Rumaitha		Khidhiir		Al-Salman		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%
Leukemia	17	17.17	9	17.31	5	27.78	1	100	32	18.82
Bronchus & lung	16	16.16	11	21.15	3	16.67	0	0	30	17.65
Urinary bladder	13	13.13	11	21.15	3	16.67	0	0	27	15.88
Colorectal	10	10.10	5	9.62	2	11.11	0	0	17	10.00
Thyroid gland	12	12.12	2	3.85	0	0.00	0	0	14	8.24
Prostate	9	9.09	2	3.85	1	5.56	0	0	12	7.06
Non-Hodgkin's lymphoma	7	7.07	3	5.77	2	11.11	0	0	12	7.06
Pancreas	5	5.05	4	7.69	1	5.56	0	0	10	5.88
Liver	6	6.06	3	5.77	0	0.00	0	0	9	5.29
Brain & other CNS	4	4.04	2	3.85	1	5.56	0	0	7	4.12
Total	99	100.00	52	100.00	18	100.00	1	100.00	170	100.00

Table No.; (83) Distribution of Top Ten Cancer by Districts in Female, Muthana, Iraq, 2016

Top ten	Samawa		Rumaitha		Khidhiir		Total	
	N.	%	N.	%	N.	%	N.	%
Breast	44	36.07	18	33.33	4	30.77	66	34.92
Thyroid gland	28	22.95	6	11.11	2	15.38	36	19.05
colorectal	10	8.20	5	9.26	3	23.08	18	9.52
Bronchus & lung	8	6.56	6	11.11	1	7.69	15	7.94
Urinary bladder	8	6.56	2	3.70	0	0.00	10	5.29
Leukemia	6	4.92	3	5.56	1	7.69	10	5.29
Non-Hodgkin's lymphoma	6	4.92	4	7.41	0	0.00	10	5.29
Brain & other CNS	3	2.46	4	7.41	2	15.38	9	4.76
Pancreas	6	4.92	2	3.70	0	0.00	8	4.23
Ovary	3	2.46	4	7.41	0	0.00	7	3.70
Total	122	100.00	54	100.00	13	100.00	189	100.00

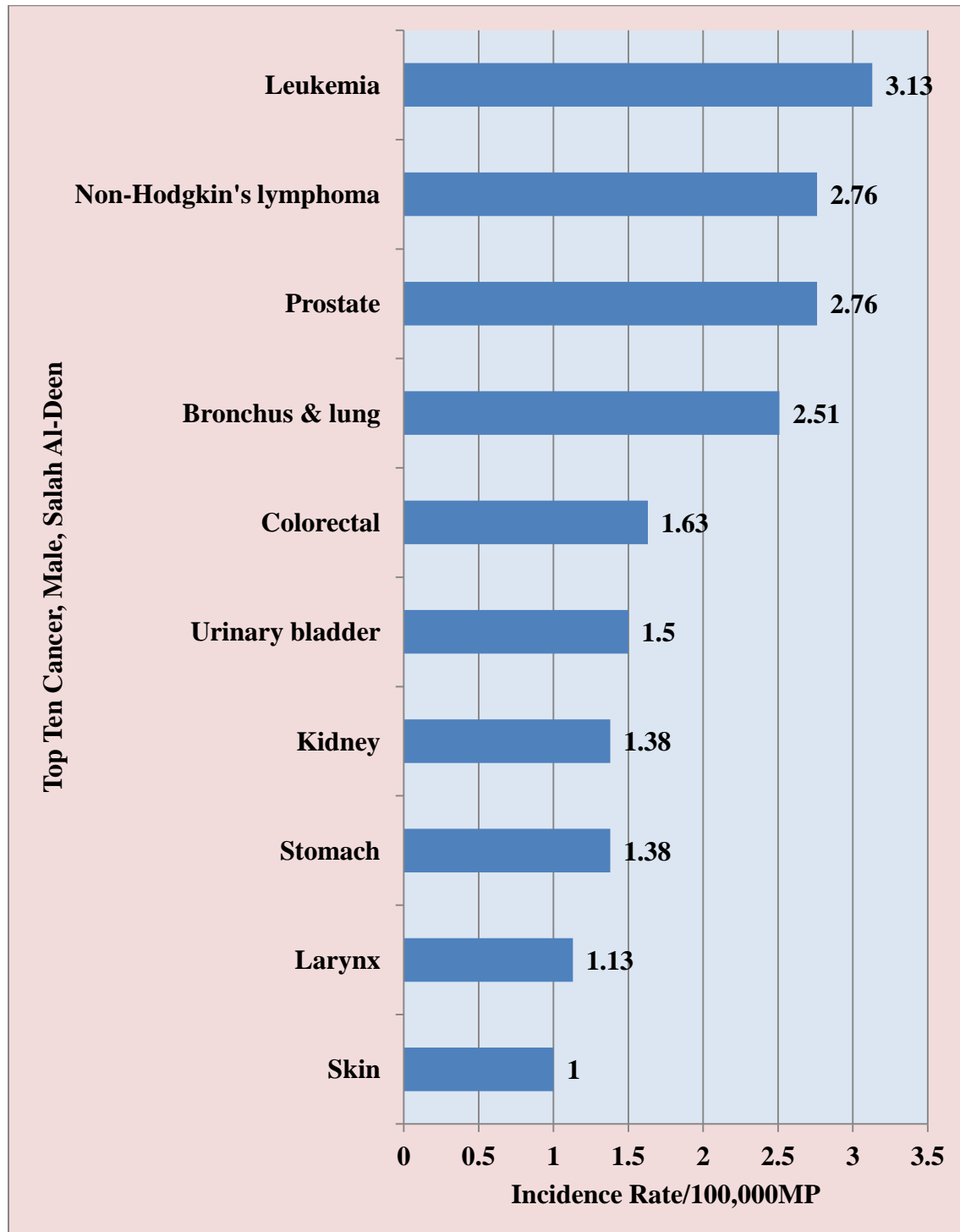
Table No.; (84) Distribution of Top Ten Cancer in Male, Salah Al-Deen, Iraq, 2016

Top ten cancer	No.	%
Leukemia*	25	10.55
Prostate	22	9.28
Non-Hodgkin's lymphoma**	22	9.28
Bronchus & lung	20	8.44
Colorectal	13	5.49
Urinary bladder	12	5.06
Stomach	11	4.64
Kidney	11	4.64
Larynx	9	3.80
Skin	8	3.38
Total other site cancer	84	35.44
Total cancers in Salah Al-Deen	237	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

**Figure No.; (62) Incidence Rate (Per 100,000MP) of Top Ten Cases in Male,
Salah Al-Deen, Iraq, 2016**



**Table No.; (85) Distribution of Top Ten Cancer in Female, Salah Al-Deen, Iraq,
2016**

Top ten cancer	No.	%
Breast	128	42.24
Thyroid gland	26	8.58
Colorectal	15	4.95
Leukemia*	13	4.29
Ovary	12	3.96
Skin	10	3.30
Non-Hodgkin's lymphoma**	10	3.30
Uterus	9	2.97
Stomach	8	2.64
Larynx	7	2.31
Total other site cancer	65	21.46
Total cancers in Salah Al-Deen	303	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (63) Incidence Rate (Per 100,000FP) of Top Ten Cases in Female, Salah Al-Deen, Iraq, 2016

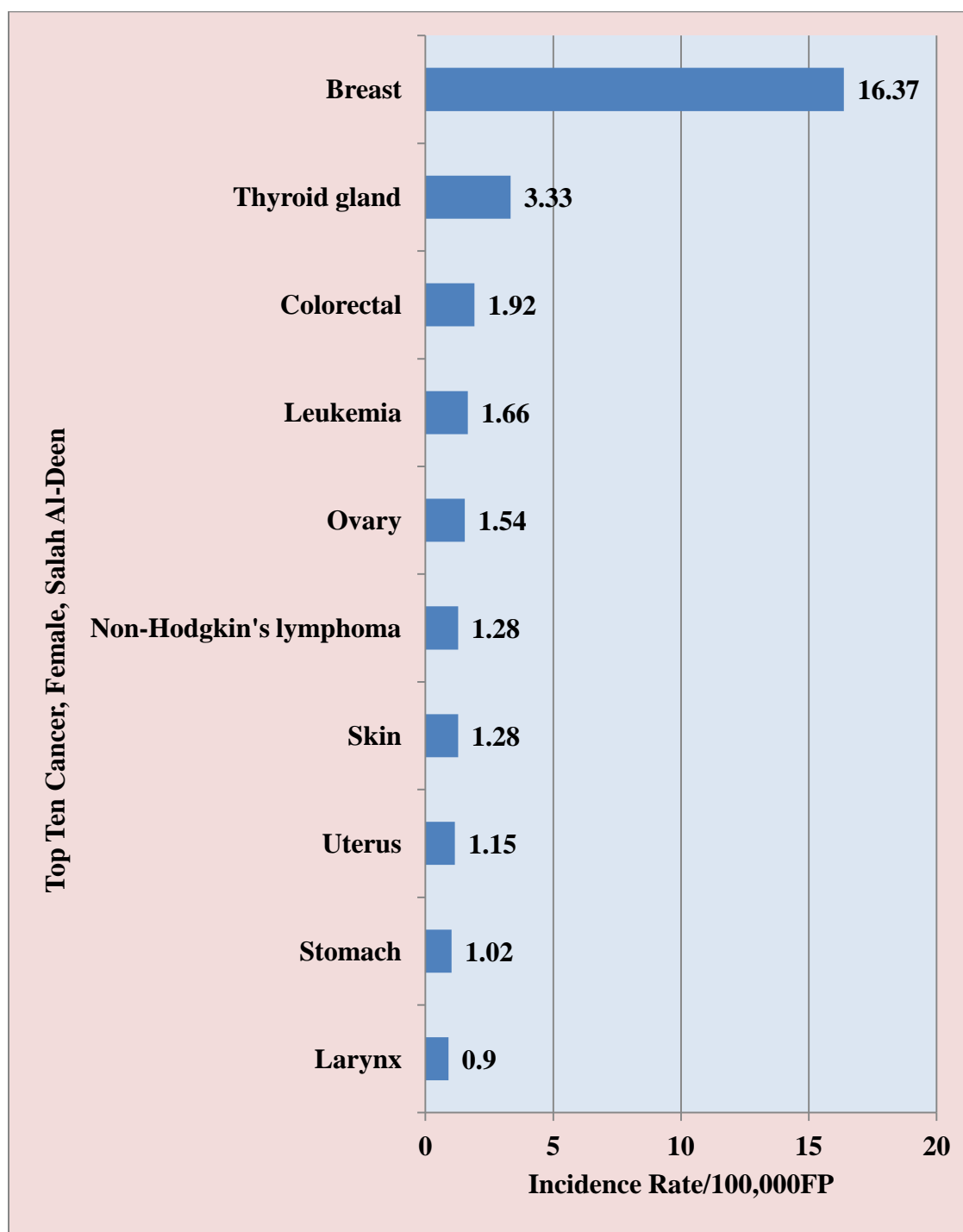


Table No.; (86) Distribution of Top Ten Cancer by Districts in Male, Salah Al-Deen, Iraq, 2016

Top ten	Tikret		Dooz-khormatoo		Sammara		Balad		Beigy		Al-Door		Al-Shirkat		Al-Faris		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Leukemia	7	14.58	5	19.23	6	15.38	4	16.67	0	0.00	0	0.00	3	42.86	0	0.00	25	16.34
Prostate	8	16.67	4	15.38	7	17.95	1	4.17	1	25.00	0	0.00	0	0.00	1	25.00	22	14.38
Non-Hodgkin's lymphoma	6	12.50	4	15.38	7	17.95	1	4.17	0	0.00	0	0.00	4	57.14	0	0.00	22	14.38
Bronchus & lung	4	8.33	3	11.54	7	17.95	3	12.50	0	0.00	1	100.00	0	0.00	2	50.00	20	13.07
colorectal	2	4.17	3	11.54	2	5.13	6	25.00	0	0.00	0	0.00	0	0.00	0	0.00	13	8.50
Urinary bladder	5	10.42	0	0.00	3	7.69	2	8.33	1	25.00	0	0.00	0	0.00	1	25.00	12	7.84
Stomach	4	8.33	4	15.38	1	2.56	2	8.33	0	0.00	0	0.00	0	0.00	0	0.00	11	7.19
Kidney	5	10.42	1	3.85	3	7.69	2	8.33	0	0.00	0	0.00	0	0.00	0	0.00	11	7.19
Larynx	5	10.42	0	0.00	1	2.56	2	8.33	1	25.00	0	0.00	0	0.00	0	0.00	9	5.88
Skin	2	4.17	2	7.69	2	5.13	1	4.17	1	25.00	0	0.00	0	0.00	0	0.00	8	5.23
Total	48	100.00	26	100.00	39	100.00	24	100.00	4	100.00	1	100.00	7	100.00	4	100.00	153	100.00

Table No.; (87) Distribution of Top Ten Cancer by Districts in Female, Salah Al-Deen, Iraq, 2016

Top ten	Tikret		Dooz-khormatoo		Sammara		Balad		Beigy		Al-Door		Al-Shirkat		Al-Faris		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Breast	43	46.74	21	55.26	28	56.00	18	60.00	8	57.14	0	0	7	70.00	3	100.00	128	53.78
Thyroid gland	15	16.30	2	5.26	4	8.00	2	6.67	3	21.43	0	0	0	0.00	0	0.00	26	10.92
Colorectal	5	5.43	3	7.89	4	8.00	1	3.33	1	7.14	0	0	1	10.00	0	0.00	15	6.30
Leukemia	6	6.52	1	2.63	2	4.00	3	10.00	1	7.14	0	0	0	0.00	0	0.00	13	5.46
Ovary	5	5.43	3	7.89	4	8.00	0	0.00	0	0.00	0	0	0	0.00	0	0.00	12	5.04
Non-Hodgkin's lymphoma	3	3.26	2	5.26	4	8.00	0	0.00	0	0.00	0	0	1	10.00	0	0.00	10	4.20
Skin	4	4.35	2	5.26	0	0.00	2	6.67	1	7.14	0	0	1	10.00	0	0.00	10	4.20
Uterus	3	3.26	1	2.63	3	6.00	1	3.33	0	0.00	1	100	0	0.00	0	0.00	9	3.78
Stomach	2	2.17	3	7.89	1	2.00	2	6.67	0	0.00	0	0	0	0.00	0	0.00	8	3.36
Larynx	6	6.52	0	0.00	0	0.00	1	3.33	0	0.00	0	0	0	0.00	0	0.00	7	2.94
Total	92	100.00	38	100.00	50	100.00	30	100.00	14	100.00	1	100.00	10	100.00	3	100.00	238	100.00

Table No.; (88) Distribution of Top Ten Cancer in Male, Anbar, Iraq, 2016

Top ten cancer	No.	%
Leukemia*	37	18.78
Prostate	23	11.68
Bronchus & lung	16	8.12
Colorectal	18	9.14
Brain & other CNS**	11	5.58
Non-Hodgkin's lymphoma***	10	5.08
Stomach	9	4.57
Urinary bladder	7	3.55
Pancreas	5	2.54
Bone & cartilage	5	2.54
Total other site cancer in Male	56	28.43
Total cancers in Anbar	197	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

*** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (64) Incidence Rate (Per 100,000MP) of Top Ten Cases in Male, Anbar, Iraq, 2016

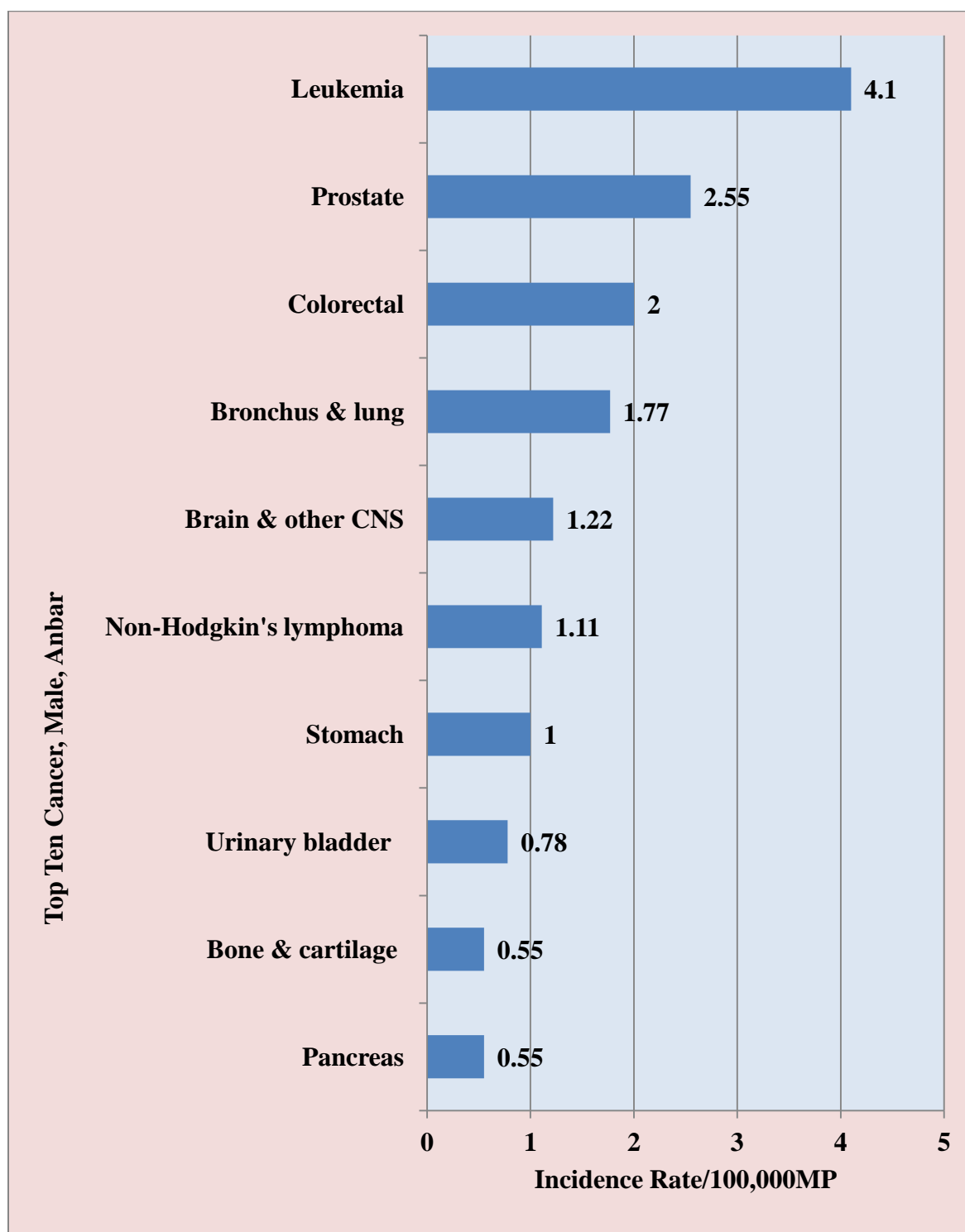


Table No.; (89) Distribution of Top Ten Cancer in Female, Anbar, Iraq, 2016

Top ten cancer	No.	%
Breast	115	41.52
Thyroid gland	24	8.66
Colorectal	19	6.86
Ovary	12	4.33
Brain & other CNS*	9	3.25
Leukemia**	8	2.89
Skin	5	1.81
Uterus	5	1.81
Cervix	5	1.81
Pancreas	5	1.81
Total other site cancer	70	25.27
Total cancers in Anbar	277	100.00%

***Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

**Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

**Figure No.; (65) Incidence Rate (Per 100,000FP) of Top Ten Cases in Female,
Anbar, Iraq, 2016**

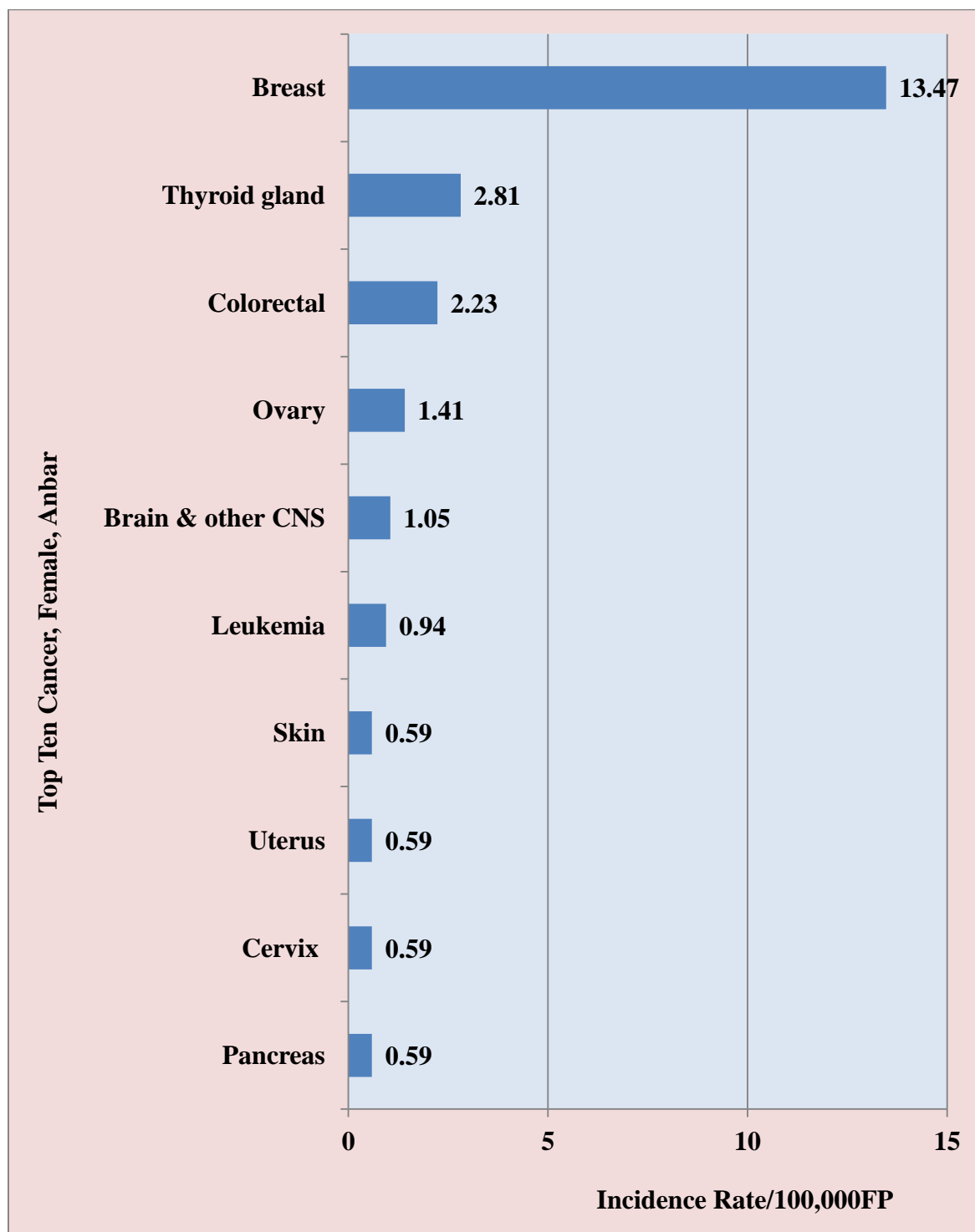


Table No.; (90) Distribution of Top Ten Cancer by Districts in Male, Anbar, Iraq, 2016

Top ten	Al-Ramadi		Heet		Al-Faloja		Aana		Hadetha		Al-Rutba		Al-Kaeem		Rawa		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Leukemia	18	24.66	2	33.33	8	20.51	2	66.67	5	50.00	0	0.00	2	33.33	0	0.00	37	26.24
Prostate	12	16.44	0	0.00	9	23.08	0	0.00	1	10.00	1	50.00	0	0.00	0	0.00	23	16.31
Bronchus & lung	9	12.33	1	16.67	5	12.82	0	0.00	0	0.00	1	50.00	0	0.00	0	0.00	16	11.35
Colorectal	10	13.70	0	0.00	2	5.13	1	33.33	1	10.00	0	0.00	2	33.33	2	100.00	18	12.77
Brain & other CNS	7	9.59	0	0.00	3	7.69	0	0.00	0	0.00	0	0.00	1	16.67	0	0.00	11	7.80
Non-Hodgkin's lymphoma	3	4.11	1	16.67	4	10.26	0	0.00	2	20.00	0	0.00	0	0.00	0	0.00	10	7.09
Stomach	4	5.48	2	33.33	3	7.69	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	9	6.38
Urinary bladder	7	9.59	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	7	4.96
Pancreas	1	1.37	0	0.00	3	7.69	0	0.00	1	10.00	0	0.00	0	0.00	0	0.00	5	3.55
Bone & cartilage	2	2.74	0	0.00	2	5.13	0	0.00	0	0.00	0	0.00	1	16.67	0	0.00	5	3.55
Total	73	100.00	6	100.00	39	100.00	3	100.00	10	100.00	2	100.00	6	100.00	2	100.00	141	100.00

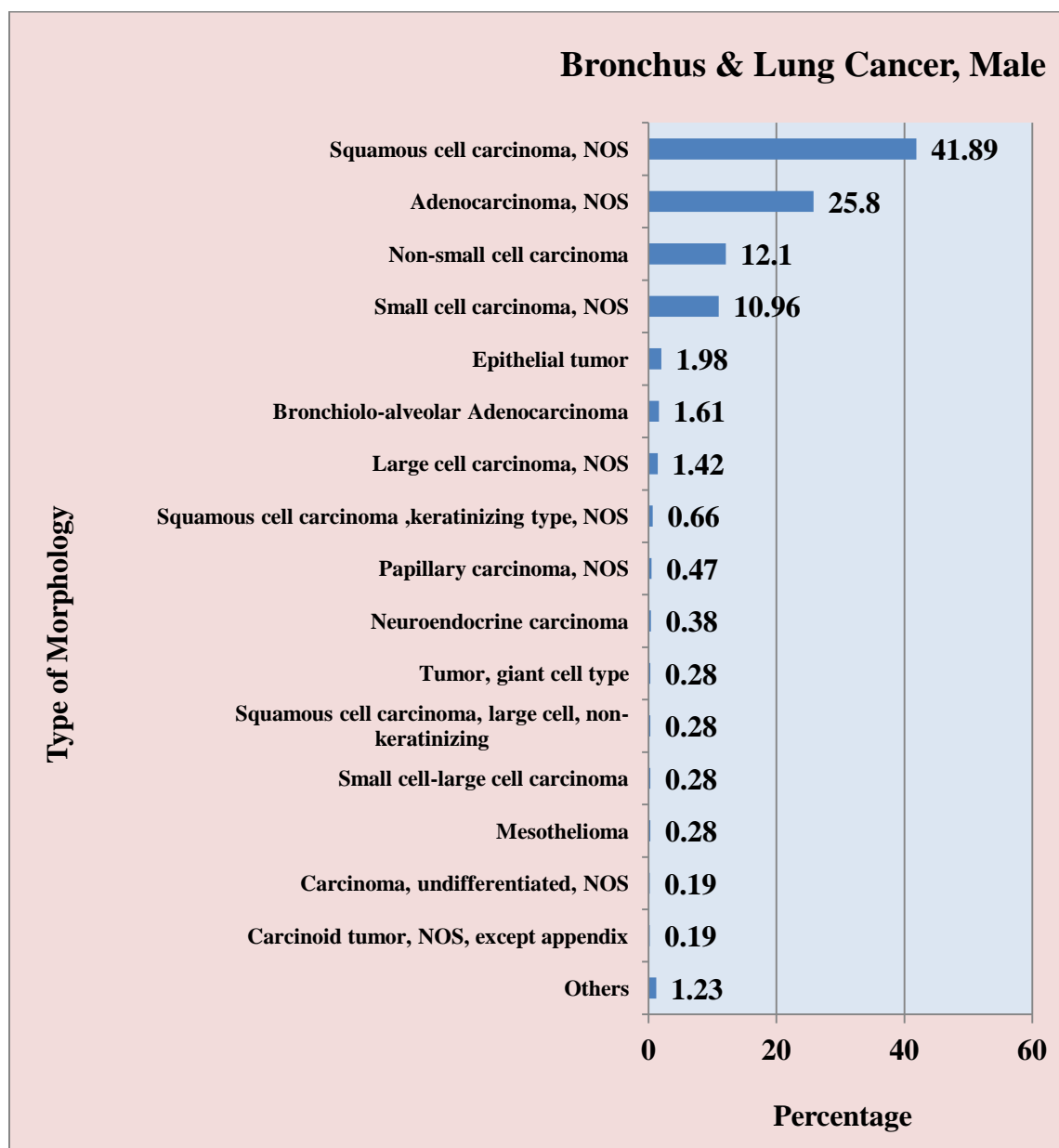
Table No.; (91) Distribution of Top Ten Cancer by Districts in Female, Anbar, Iraq, 2016

Top ten	Al-Ramadi		Heet		Al-Faloja		Aana		Hadetha		Al-Rutba		Al-Kaeem		Total	
	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%	N.	%
Breast	66	58.41	1	16.67	43	61.43	0	0.00	2	28.57	2	66.67	1	14.29	115	55.56
Thyroid gland	18	15.93	0	0.00	4	5.71	0	0.00	1	14.29	0	0.00	1	14.29	24	11.59
Colorectal	6	5.31	1	16.67	7	10.00	1	100.00	2	28.57	0	0.00	2	28.57	19	9.18
Ovary	5	4.42	1	16.67	4	5.71	0	0.00	1	14.29	0	0.00	1	14.29	12	5.80
Brain & other CNS	8	7.08	0	0.00	1	1.43	0	0.00	0	0.00	0	0.00	0	0.00	9	4.35
Leukemia	2	1.77	2	33.33	2	2.86	0	0.00	1	14.29	0	0.00	1	14.29	8	3.86
Pancreas	2	1.77	0	0.00	2	2.86	0	0.00	0	0.00	0	0.00	1	14.29	5	2.42
Skin- other	2	1.77	0	0.00	2	2.86	0	0.00	0	0.00	1	33.33	0	0.00	5	2.42
Cervix	3	2.65	1	16.67	1	1.43	0	0.00	0	0.00	0	0.00	0	0.00	5	2.42
Uterus	1	0.88	0	0.00	4	5.71	0	0.00	0	0.00	0	0.00	0	0.00	5	2.42
Total	113	100.00	6	100.00	70	100.00	1	100.00	7	100.00	3	100.00	7	100.00	207	100.00

3.4. Morphology of top ten cancers in 2016:

Below the morphology of top ten cancers in male, 2016

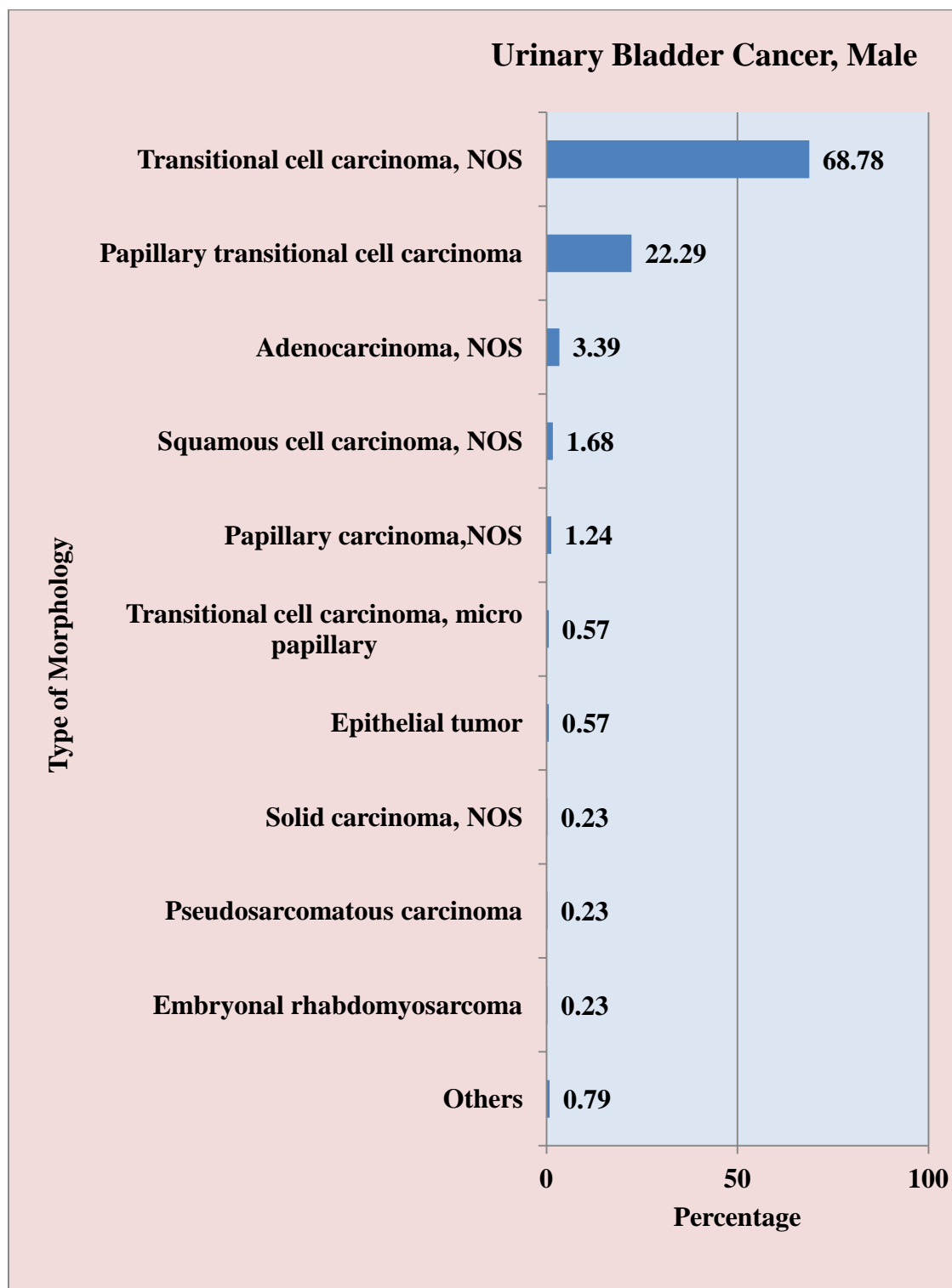
Figure No.; (66) Bronchus & Lung Cancer by the Type of Morphology, Male, Iraq, 2016



***NOS: Not otherwise specified**

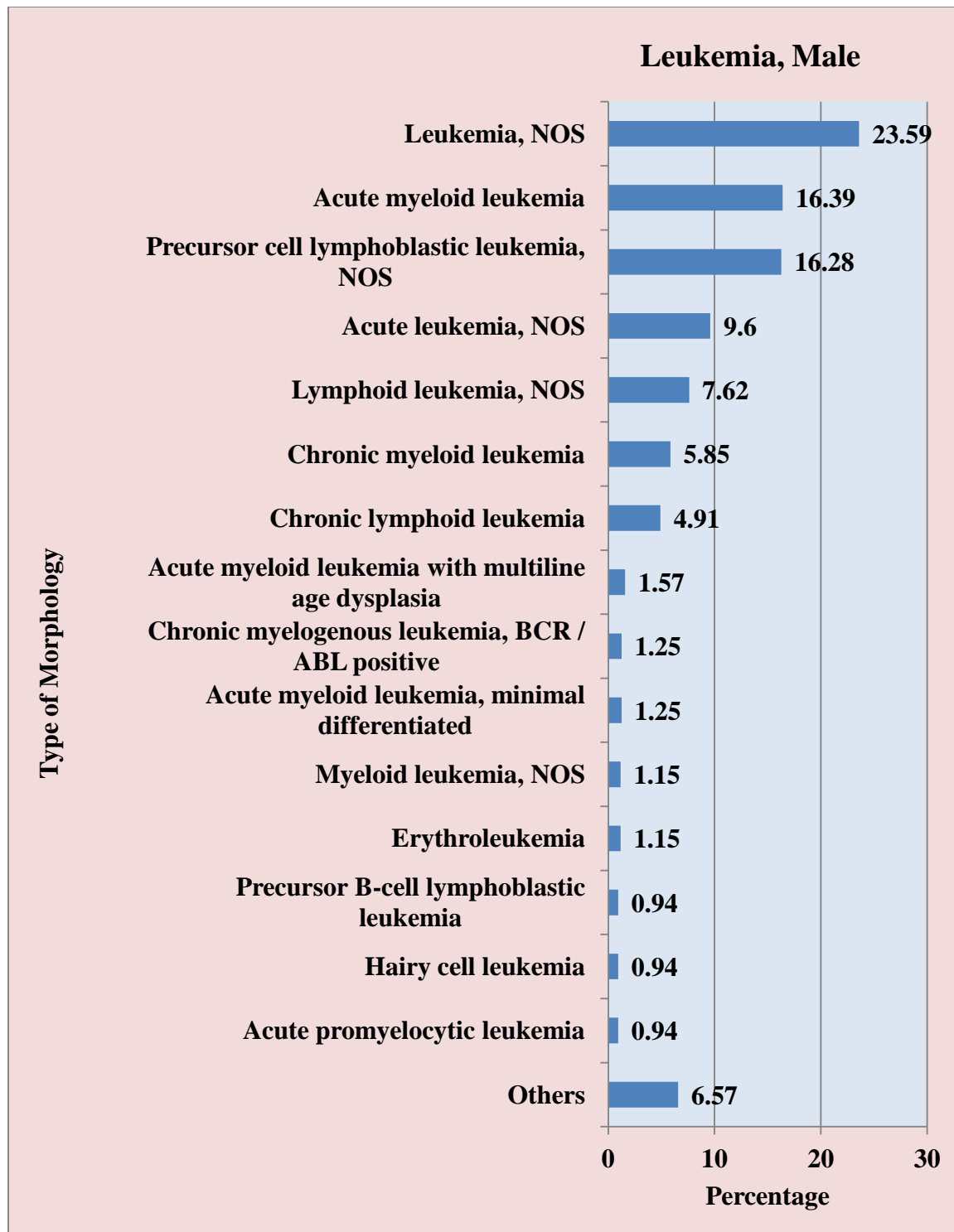
Note: Basis of the diagnosis is bronchial wash mainly.

Figure No.; (67) Urinary Bladder Cancer by the Type of Morphology, Male, Iraq, 2016



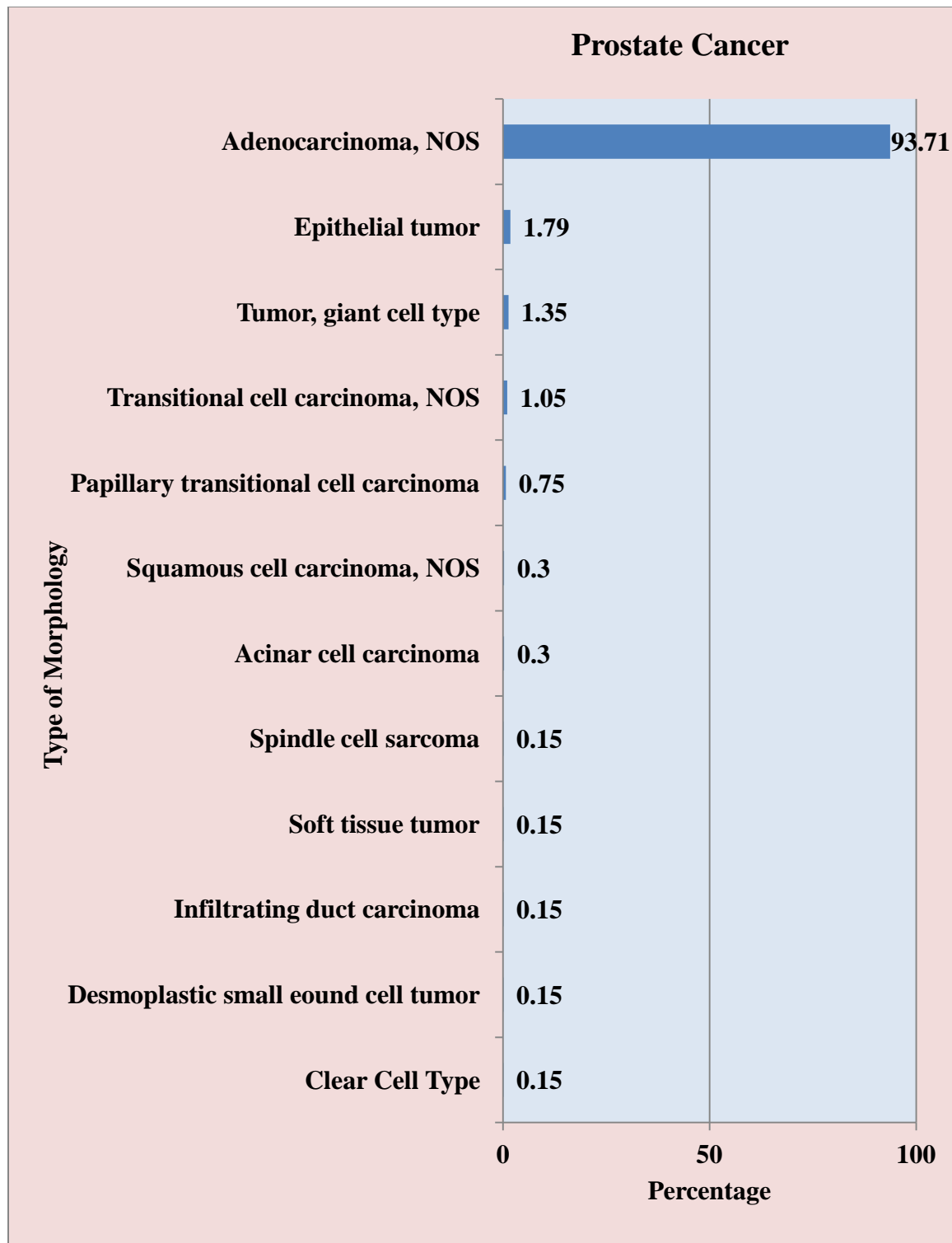
***NOS: Not otherwise specified**

Figure No.; (68) Leukemia by the Type of Morphology, Male, Iraq, 2016



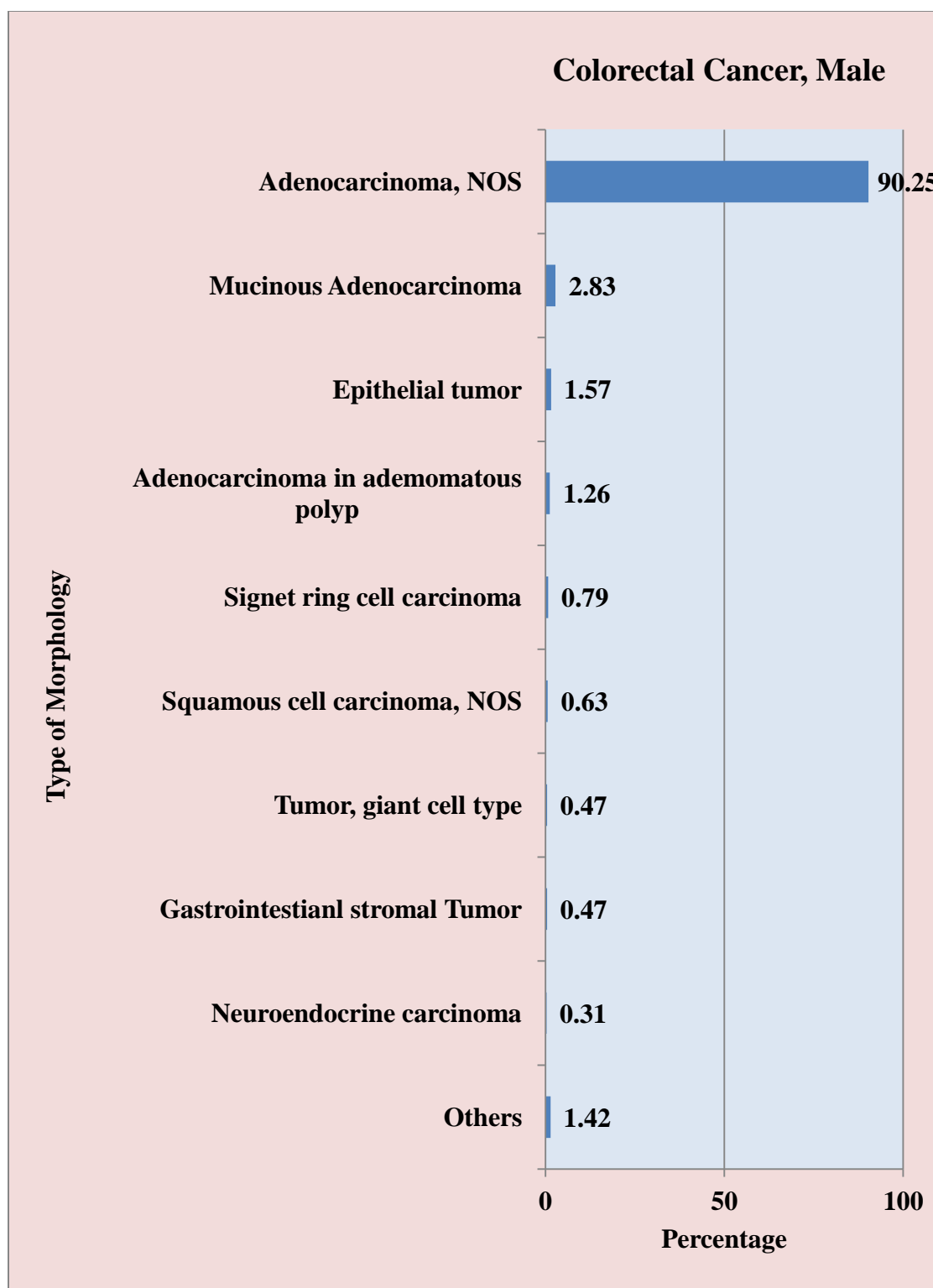
***NOS: Not otherwise specified**

Figure No.; (69) Prostate Cancer by the Type of Morphology, Iraq, 2016



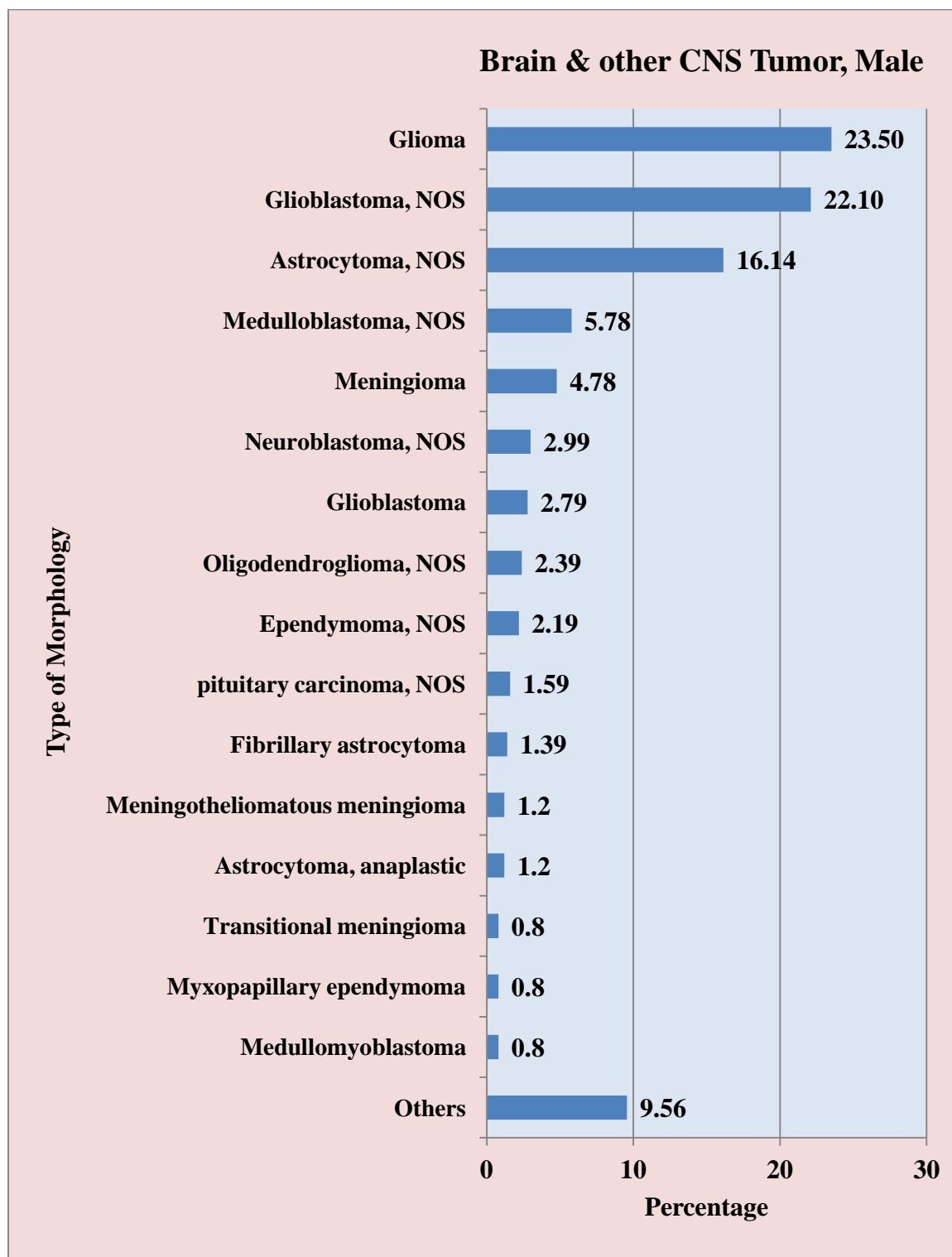
***NOS: Not otherwise specified**

Figure No.; (70) Colorectal Cancer by the Type of Morphology, Male, Iraq, 2016



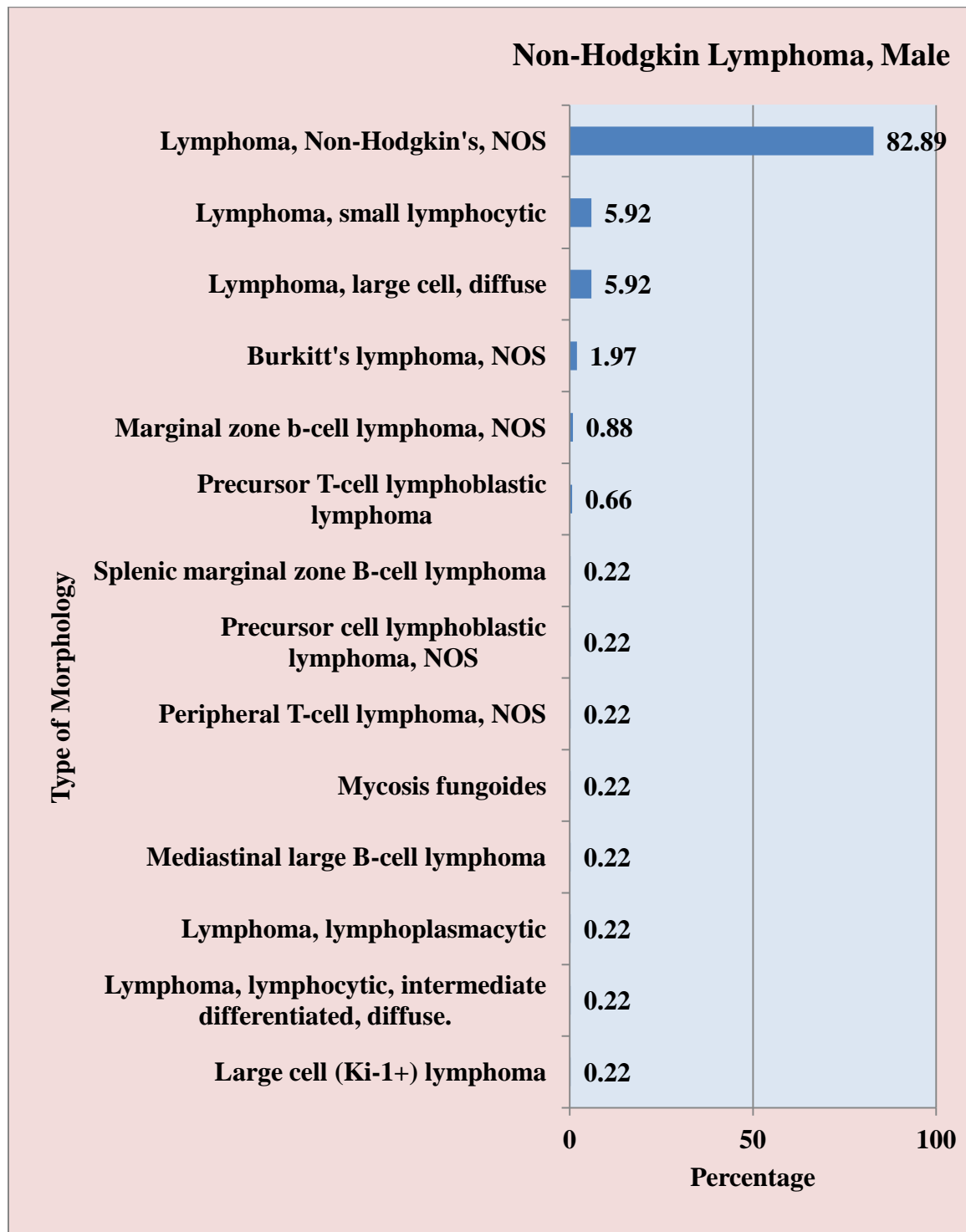
***NOS: Not otherwise specified**

Figure No.; (71) Brain & other CNS Tumor by the Type of Morphology, Male, Iraq, 2016



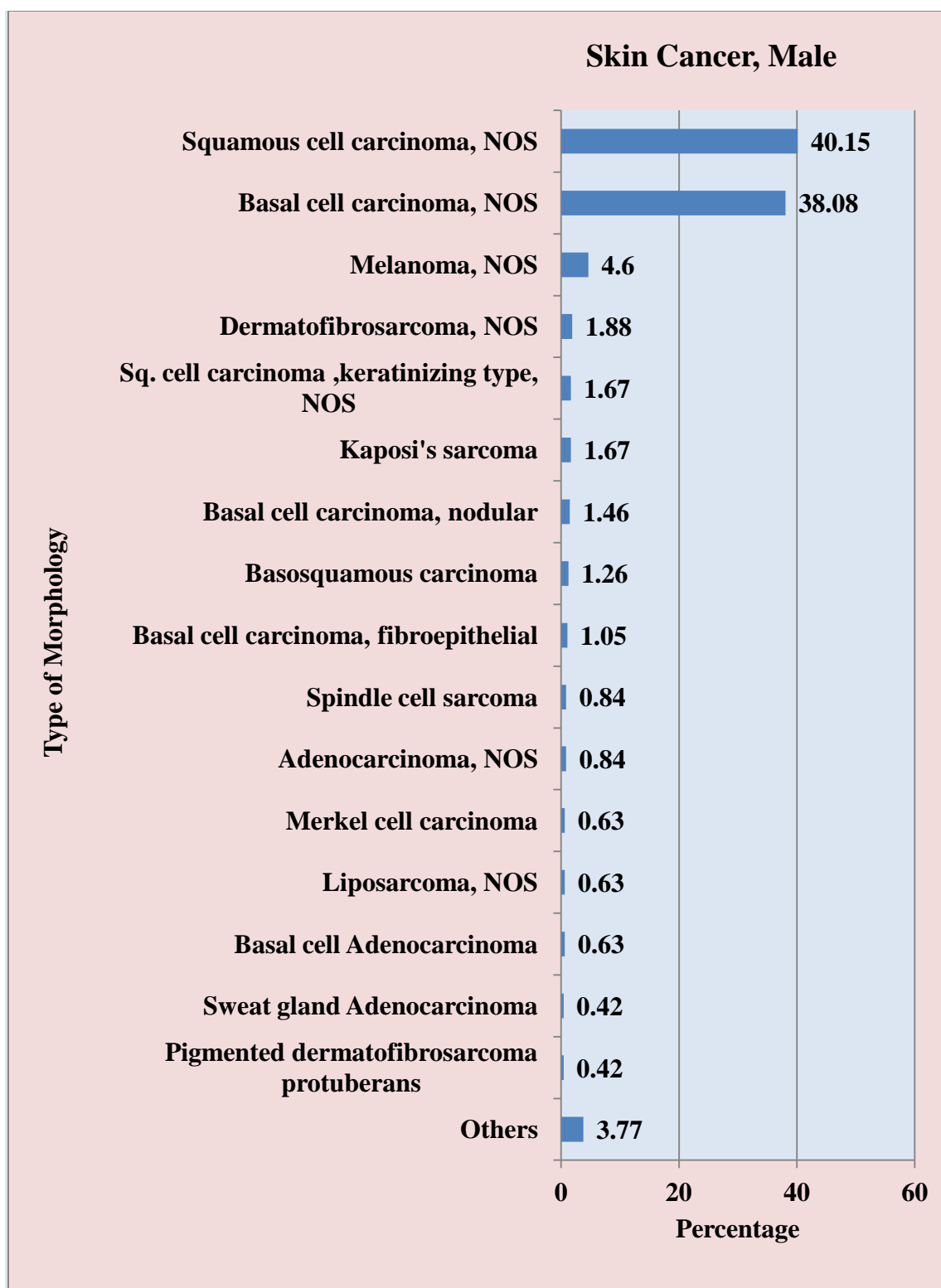
***NOS: Not otherwise specified**

Figure No.; (72) Non-Hodgkin lymphomas by the Type of Morphology, Male, Iraq, 2016



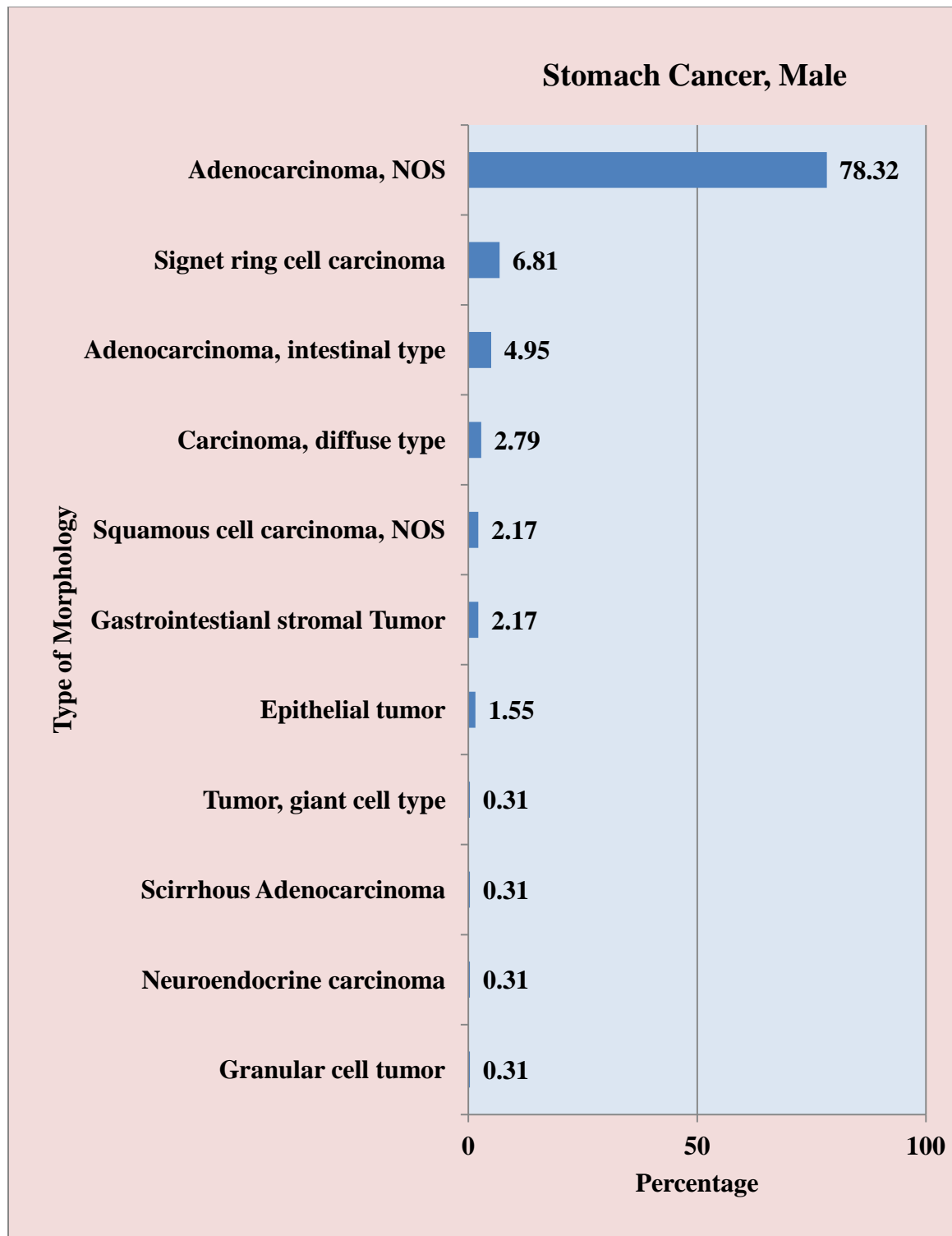
***NOS: Not otherwise specified**

Figure No.; (73) Skin Cancer by the Type of Morphology, Male, Iraq, 2016



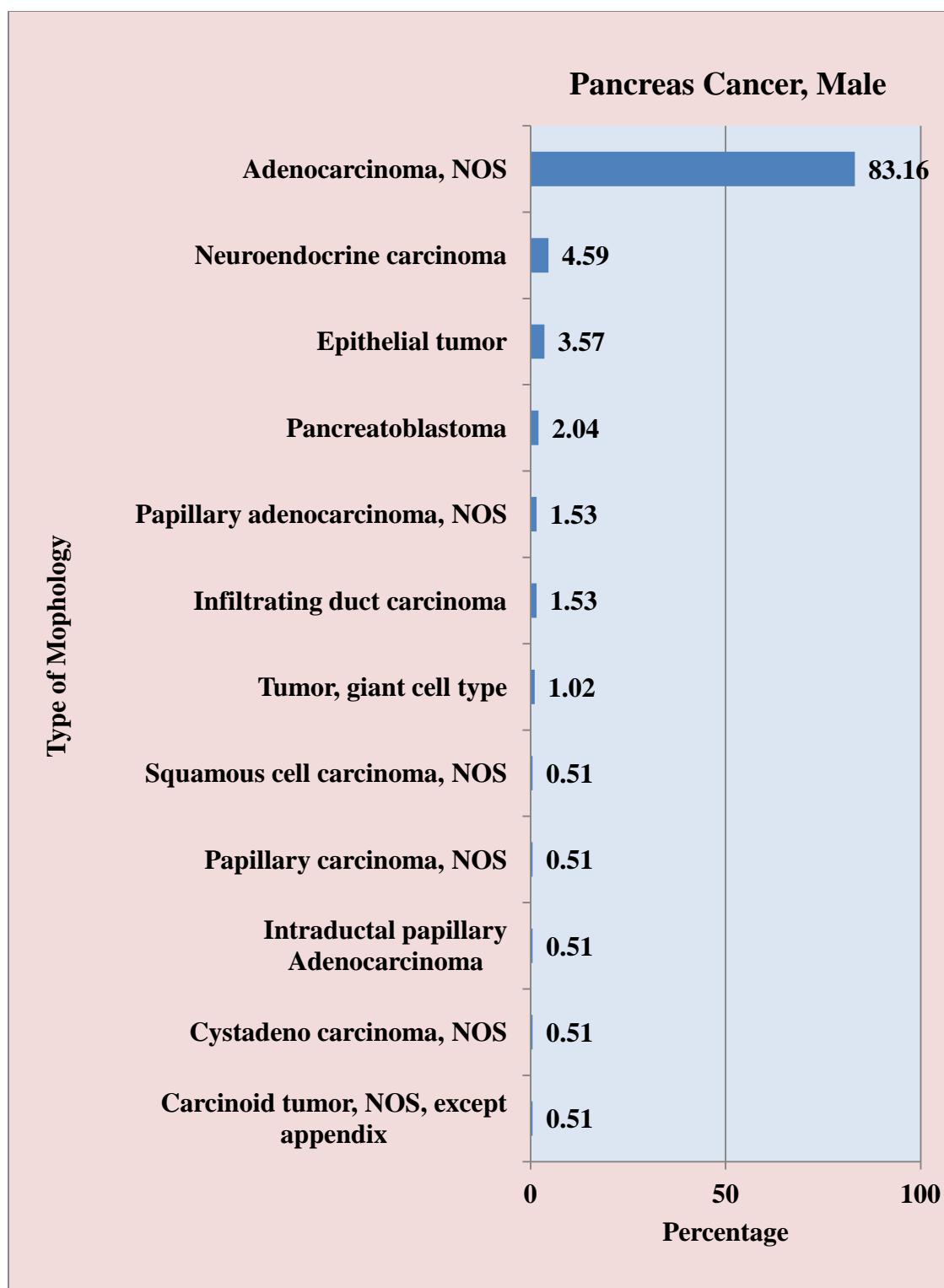
***NOS: Not otherwise specified**

Figure No.; (74) Stomach Cancer by the Type of Morphology, Male, Iraq, 2016



***NOS: Not otherwise specified**

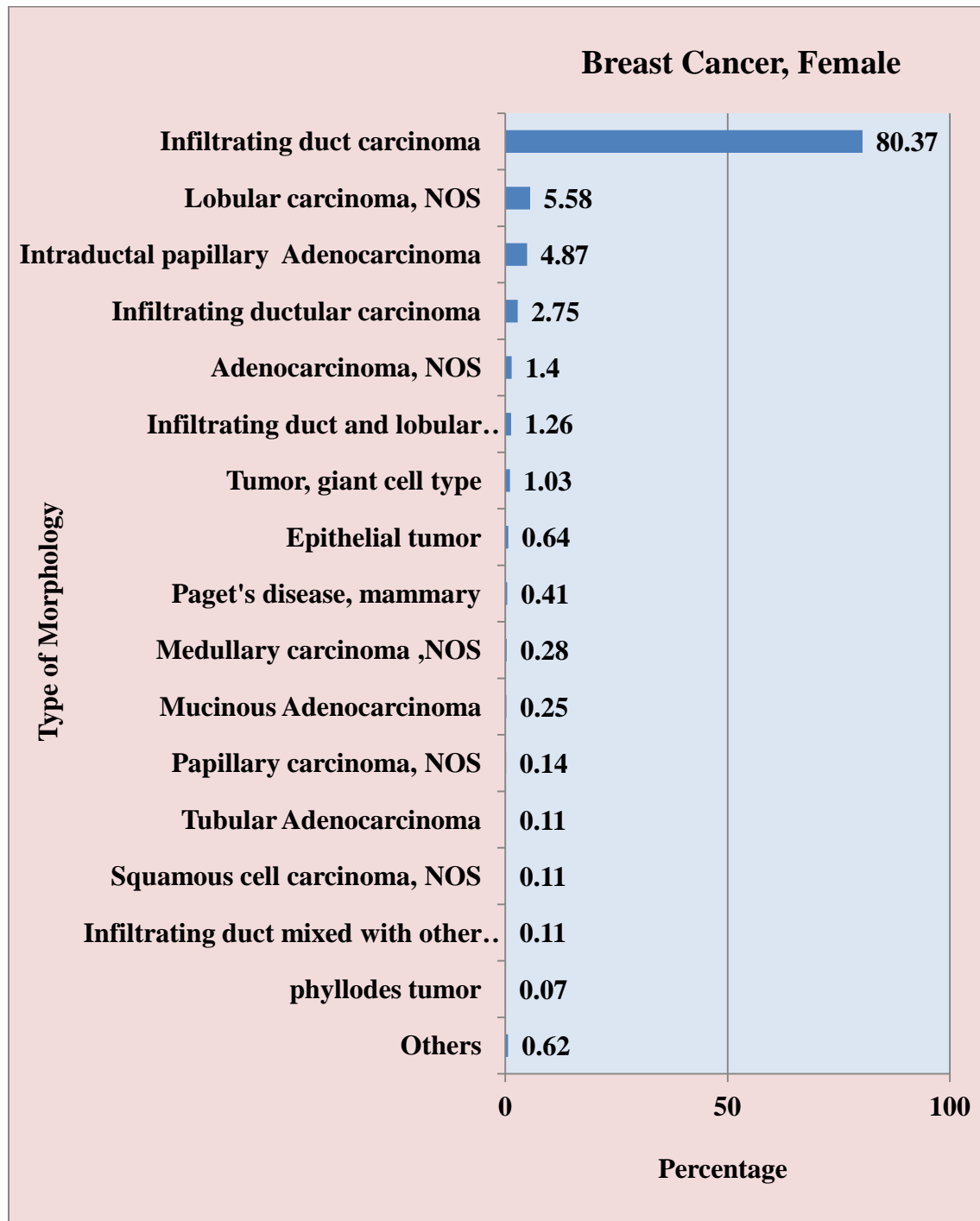
Figure No.; (75) Pancreas Cancer by the Type of Morphology, Male, Iraq, 2016



***NOS: Not otherwise specified**

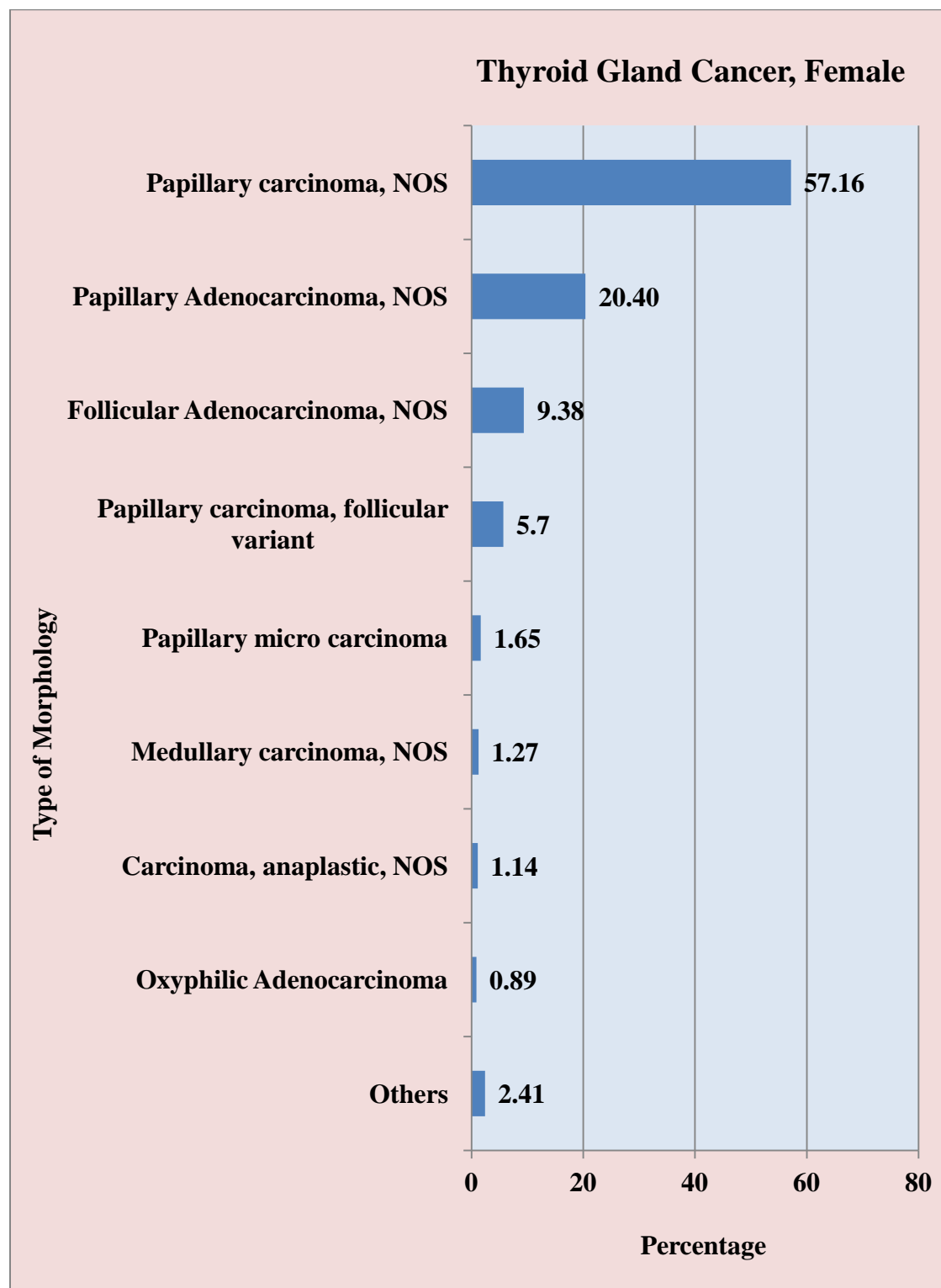
Below the morphology of top ten cancers in female, 2016

Figure No.; (76) Breast Cancer by the Type of Morphology, Female, Iraq, 2016



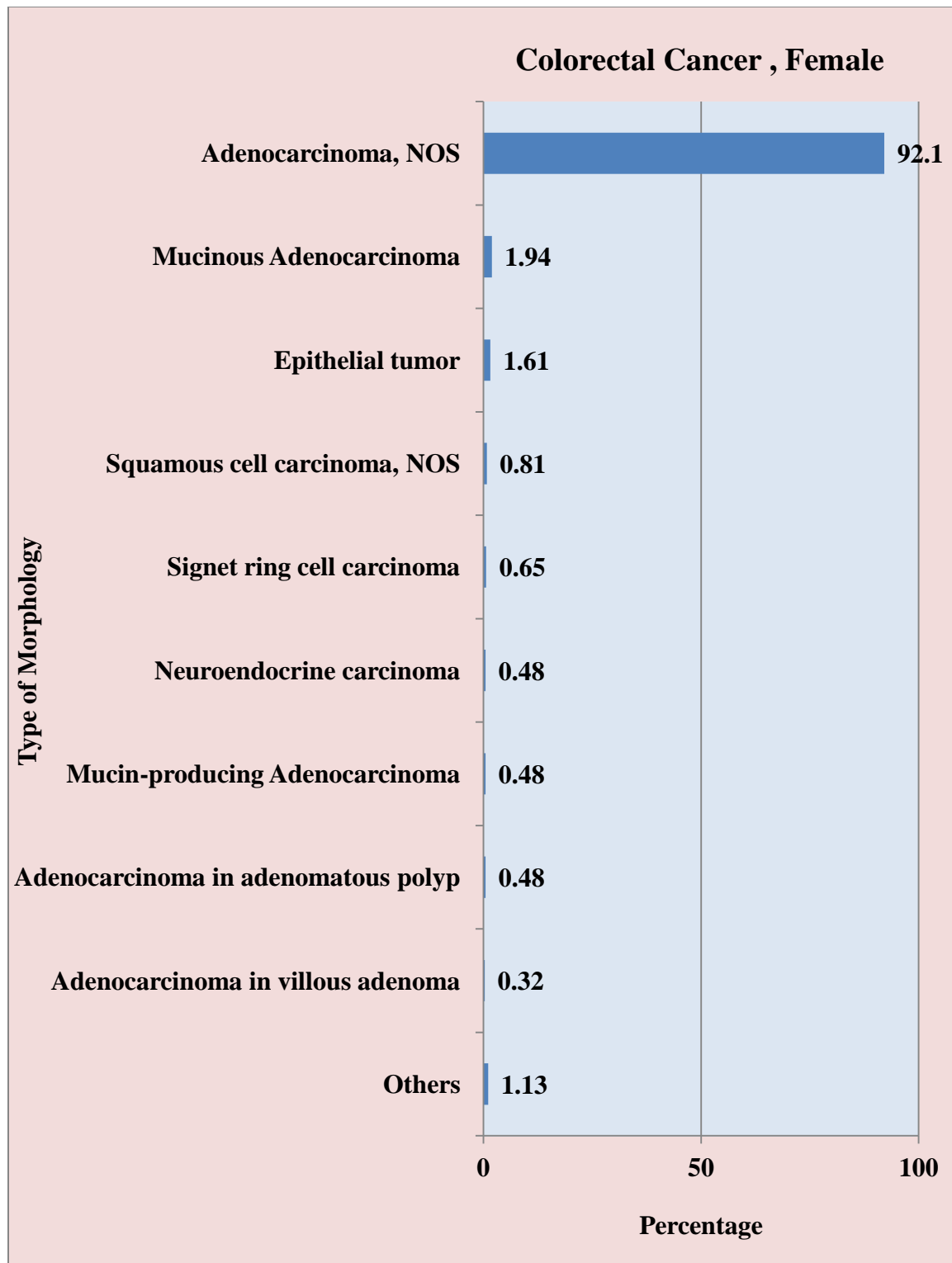
***NOS: Not otherwise specified**

Figure No.; (77) Thyroid Gland Cancer by the Type of Morphology, Female, Iraq, 2016



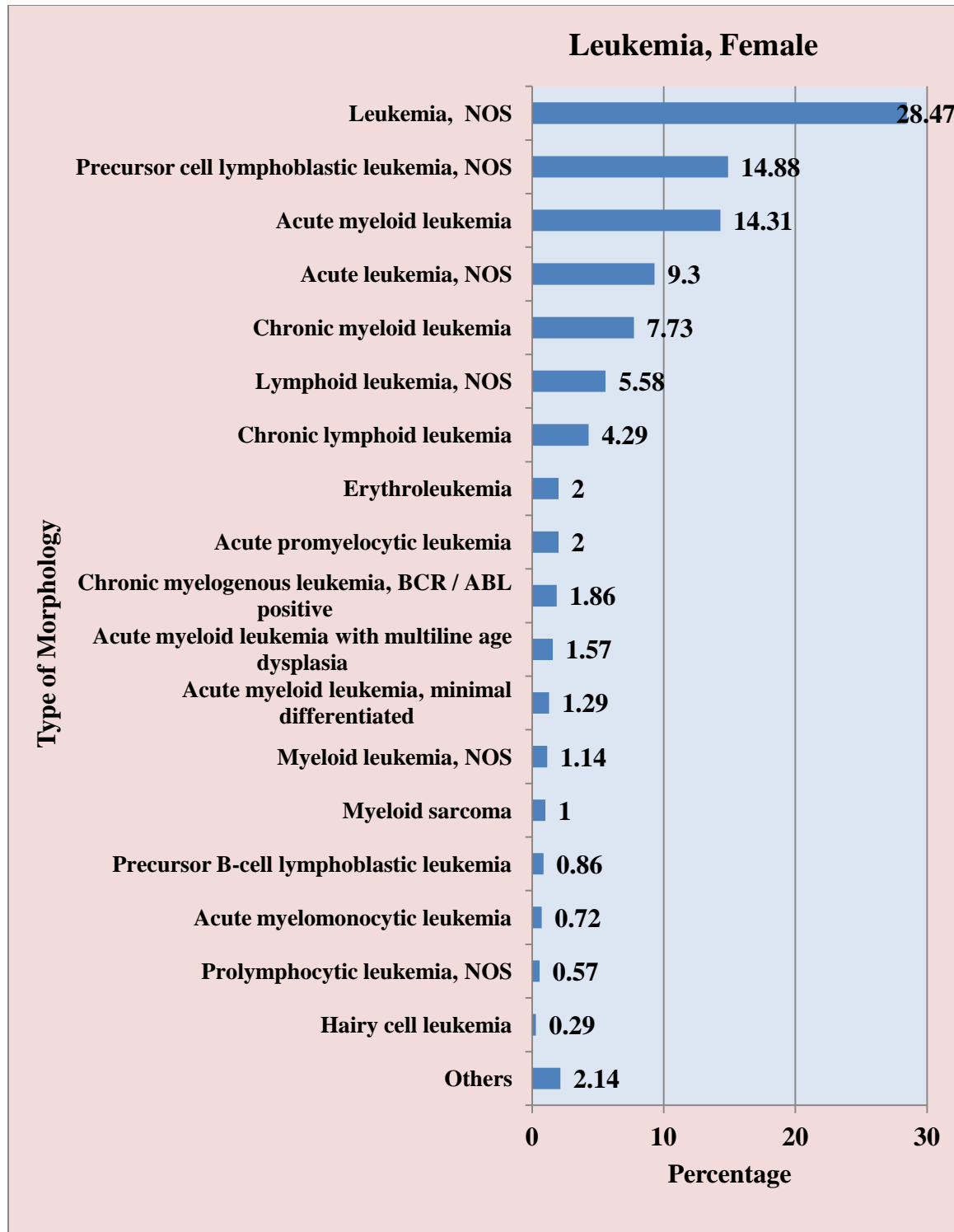
***NOS: Not otherwise specified**

Figure No.; (78) Colorectal Cancer by the Type of Morphology, Female, Iraq, 2016



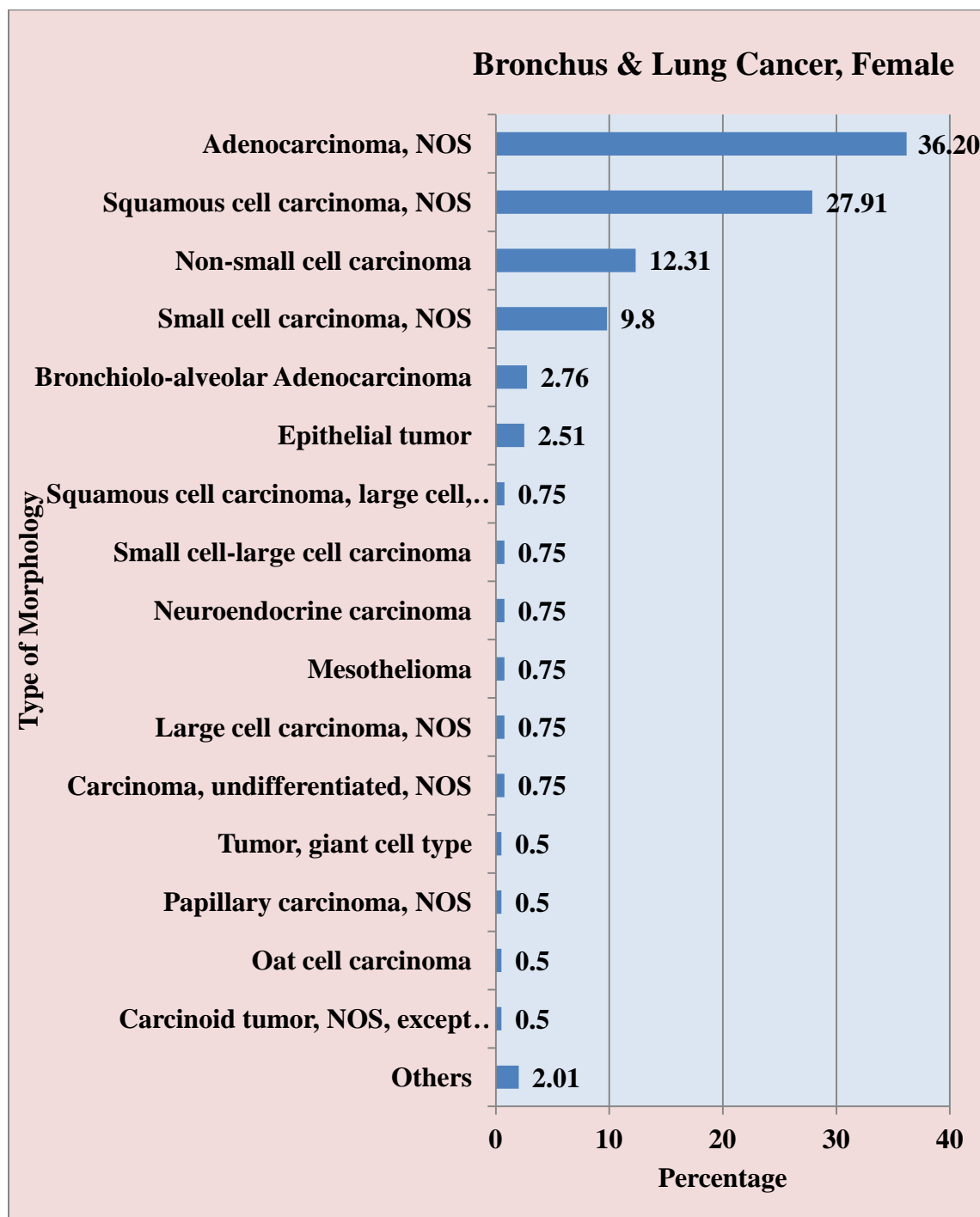
***NOS: Not otherwise specified**

Figure No.; (79) Leukemia by the Type of Morphology, Female, Iraq, 2016



*NOS: Not otherwise specified

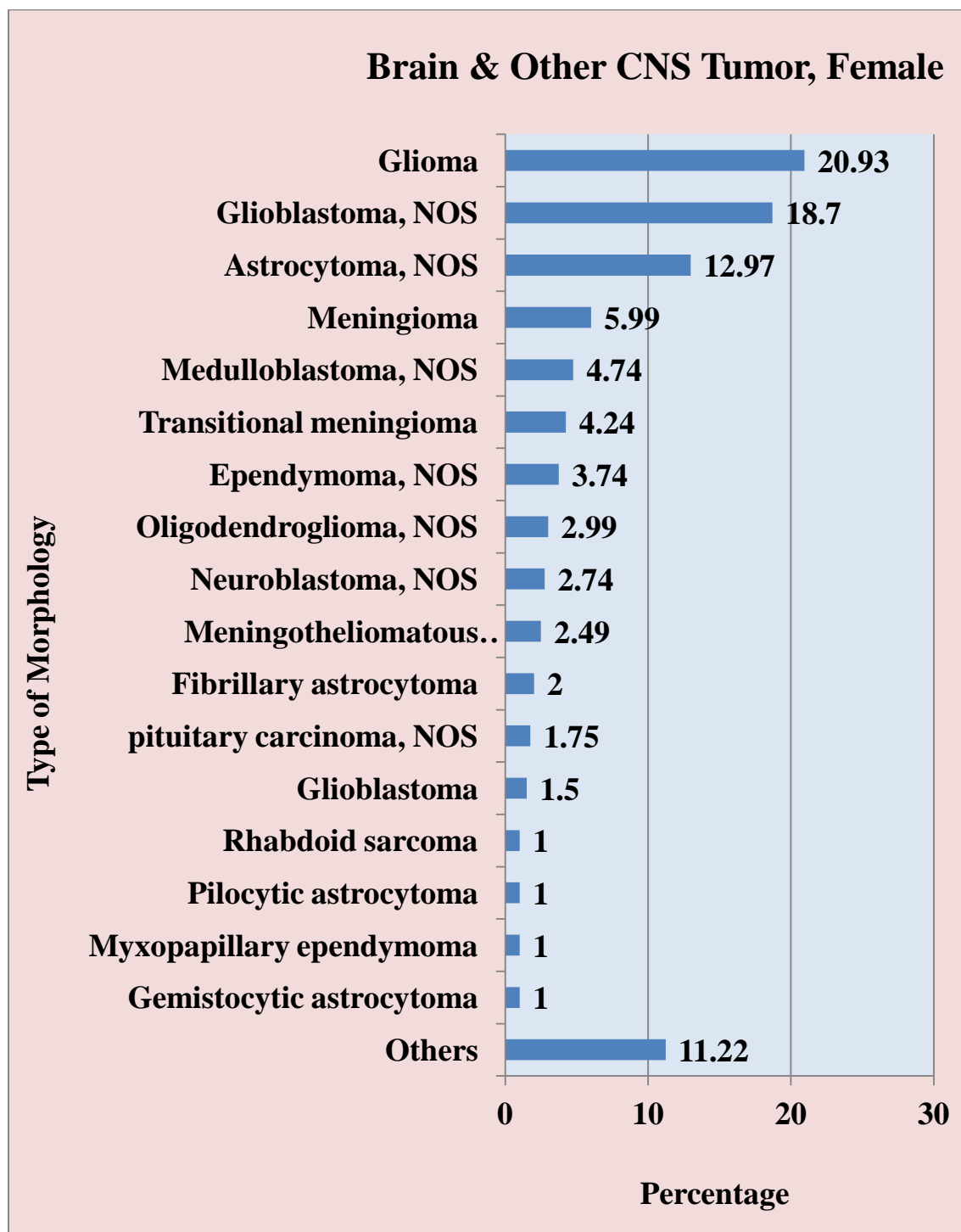
Figure No.; (80) Bronchus & Lung Cancer by the Type of Morphology, Female, Iraq, 2016



*NOS: Not otherwise specified

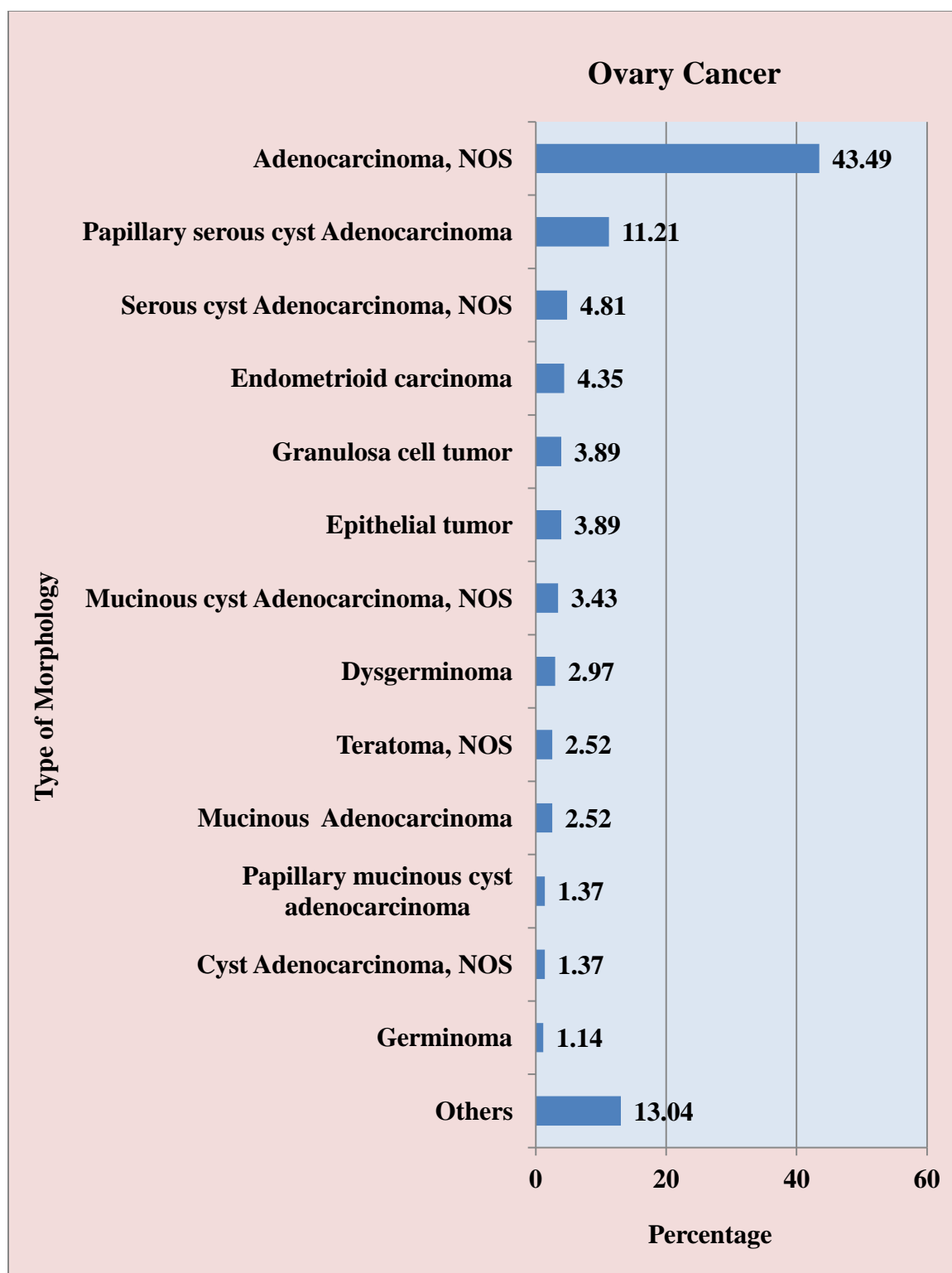
Note: Basis of the diagnosis is bronchial wash mainly.

Figure No.; (81) Brain & other CNS Tumor by the Type of Morphology, Female,
Iraq, 2016



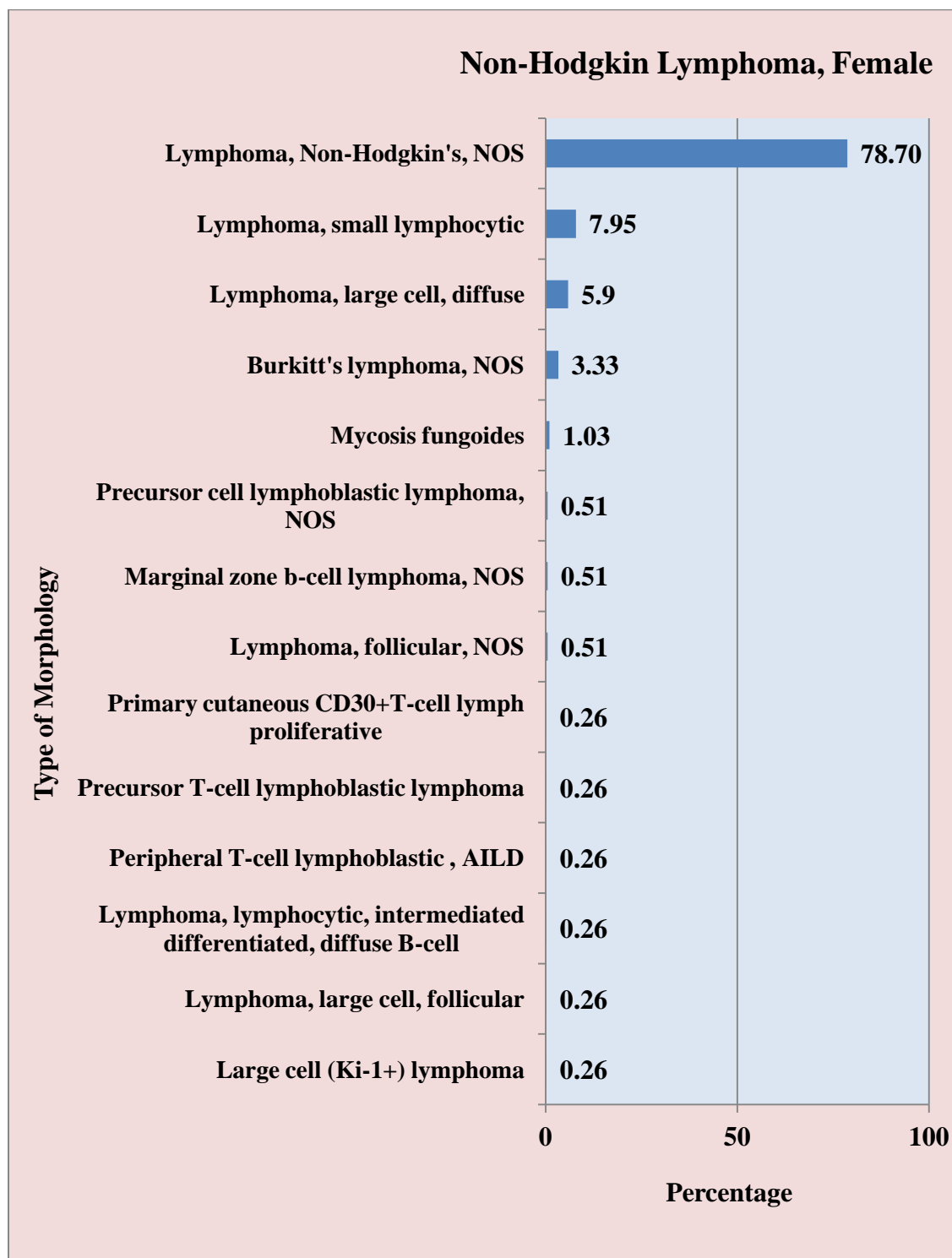
*NOS: Not otherwise specified

Figure No.; (82) Ovary Cancer by the Type of Morphology, Iraq, 2016



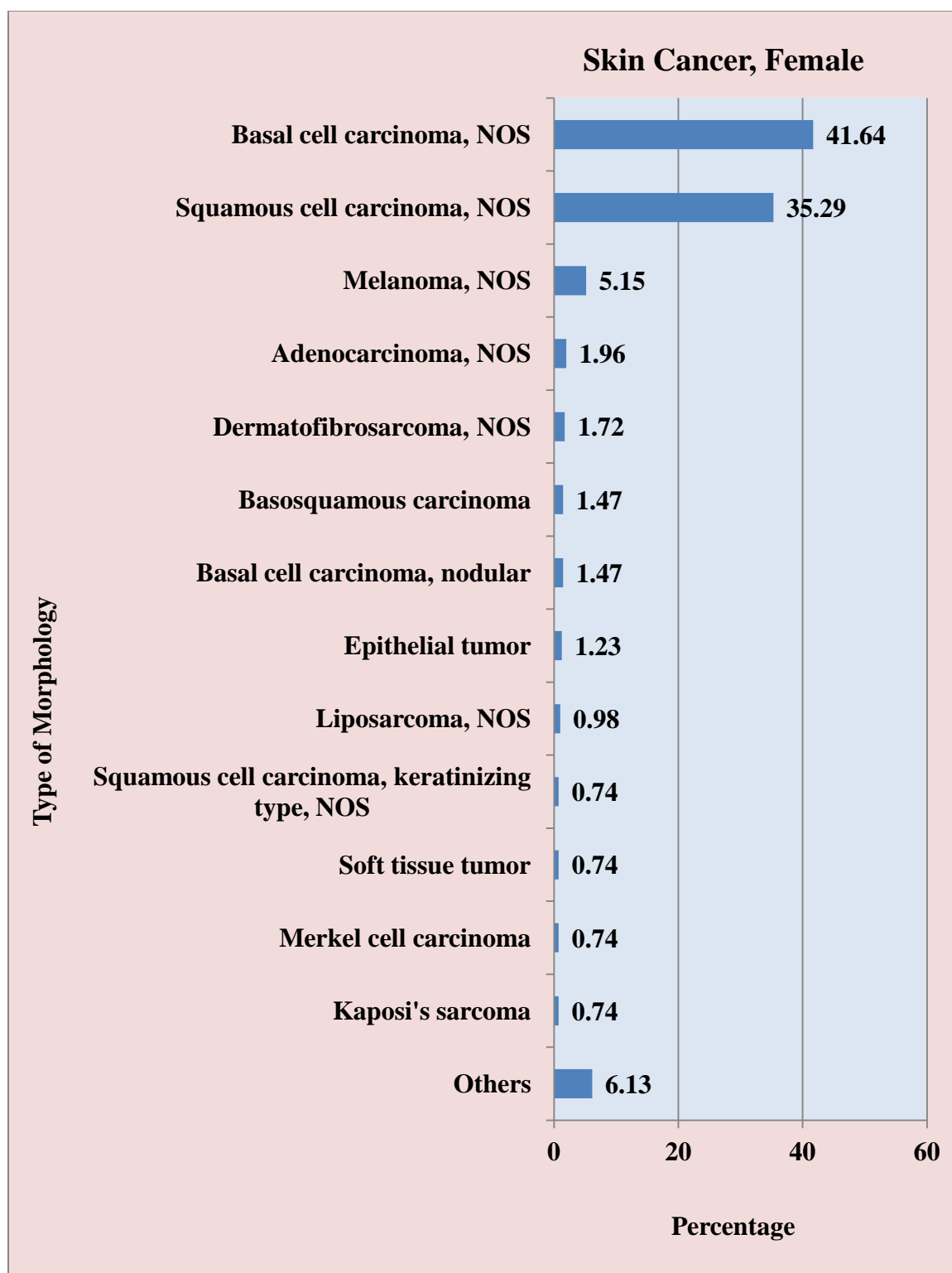
***NOS: Not otherwise specified**

Figure No.; (83) Non-Hodgkin lymphomas by the Type of Morphology, Female, Iraq, 2016



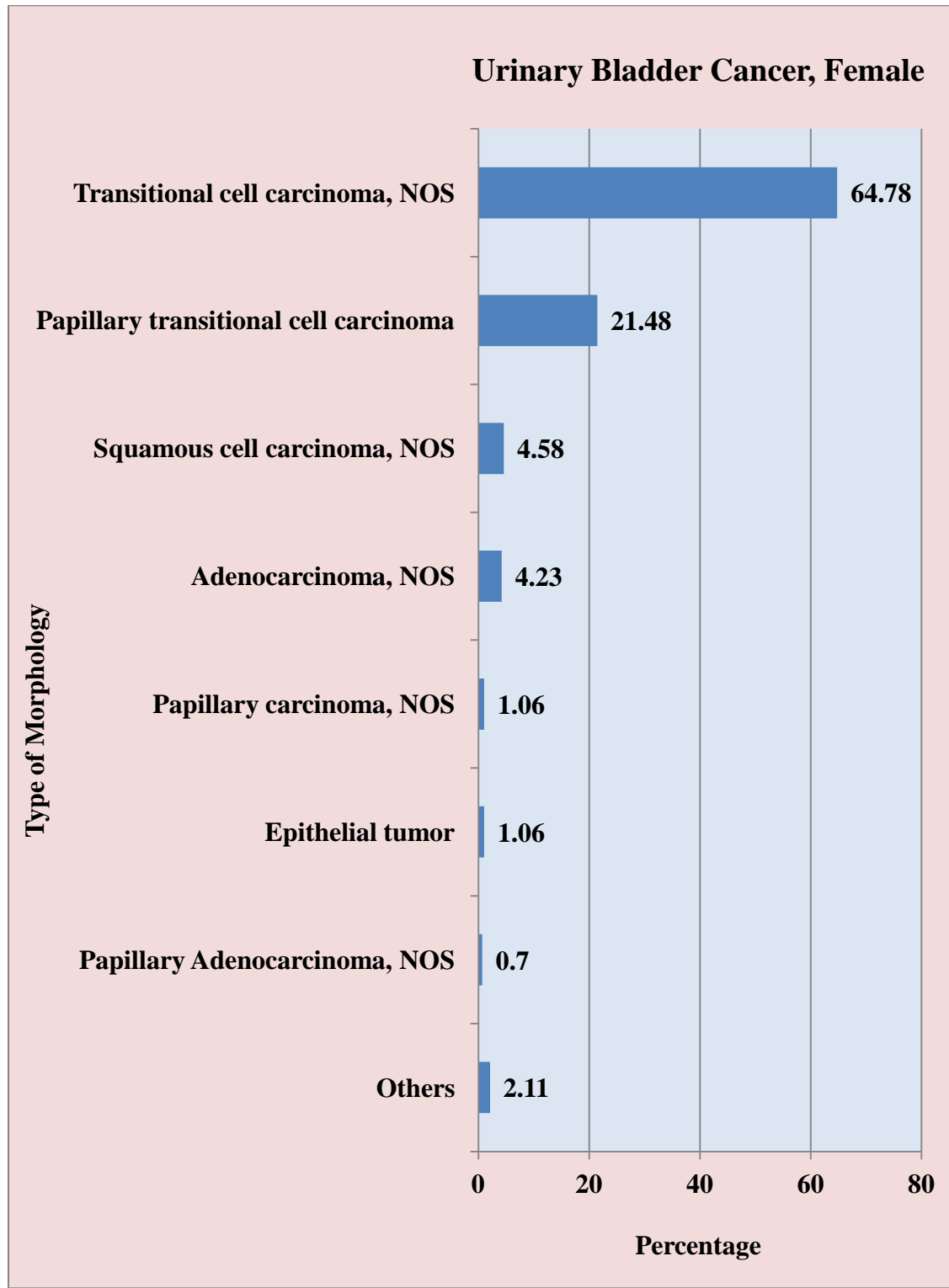
***NOS: Not otherwise specified**

Figure No.; (84) Skin Cancer by the Type of Morphology, Female, Iraq, 2016



***NOS: Not otherwise specified**

Figure No.; (85) Urinary Bladder Cancer by the Type of Morphology, Female, Iraq, 2016



***NOS: Not otherwise specified**

3.5. Child cancer 0-14 years:

3.5.1. Distribution and the incidence rate of top ten cancers in children:

Table No.; (92), Figure No.; (86) shows the distribution and the incidence rate of top ten cancers in children, it shows that the highest percentage and incidence of top ten was Leukemia and lowest was Liver. Male to female ratio was 1.3:1

Table No.; (92) Distribution of Top Ten Cancer in Children by Gender, Iraq, 2016

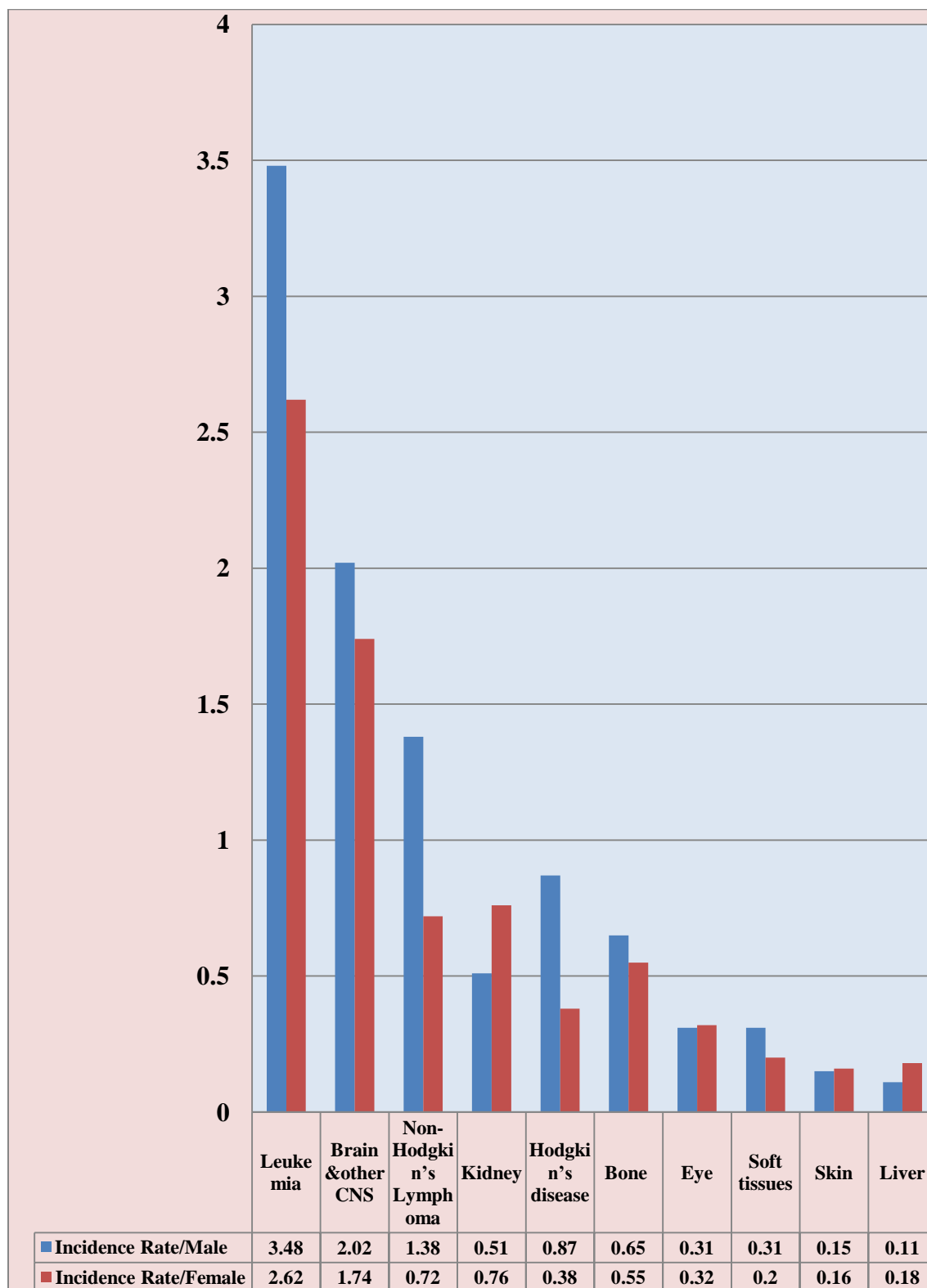
Top ten cancer	Male		Female		Total	
	No.	%	No.	%	No.	%
Leukemia*	273	31.24	194	30.46	467	30.91
Brain & other CNS**	158	18.08	129	20.25	287	18.99
Non- Hodgkin's lymphoma***	108	12.36	53	8.32	161	10.66
Kidney	40	4.58	56	8.79	96	6.35
Hodgkin's disease	68	7.78	28	4.40	96	6.35
Bone-other	51	5.84	41	6.44	92	6.09
Eye	24	2.75	24	3.77	48	3.18
Soft tissues	24	2.75	15	2.35	39	2.58
Skin	12	1.37	12	1.88	24	1.59
Liver	9	1.03	13	2.04	22	1.46
Total other site cancer	107	12.24	72	11.30	179	11.85
Total cancers in children	874	100.00%	637	100.00%	1,511	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

*** Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Figure No.; (86) Incidence Rate (Per 100,000/0-14 Year Populations) of Top Ten Cancer in Children Stratified by Gender, Iraq, 2016



3.5.2. Distribution of crude child cancer by site and gender:

Table No.; (93) Distribution of Crude Child Cancer by Site and Gender, Iraq, 2016

Site	ICD- O	Male					Female				
		0-	5-	10-	total	%	0-	5-	10-	total	%
Lip	C00	0	0	0	0	0.00	1	0	0	1	0.16
Tongue - other	C02	1	0	0	1	0.11	0	0	0	0	0.00
Mouth - floor	C04	0	1	0	1	0.11	0	0	0	0	0.00
Mouth - palate	C05	0	1	1	2	0.23	0	0	0	0	0.00
Mouth - other	C06	0	0	0	0	0.00	0	0	1	1	0.16
Salivary gland	C08	0	0	1	1	0.11	0	0	0	0	0.00
Tonsils	C09	0	0	1	1	0.11	0	0	0	0	0.00
Oropharynx	C10	0	0	0	0	0.00	0	0	1	1	0.16
Nasopharynx	C11	0	1	1	2	0.23	0	1	0	1	0.16
Pharynx	C14	1	0	0	1	0.11	0	0	0	0	0.00
Esophagus	C15	0	0	0	0	0.00	0	0	0	0	0.00
Stomach	C16	1	0	1	2	0.23	0	0	0	0	0.00
Liver	C22	4	5	0	9	1.03	9	2	2	13	2.04
Other digestive organ	C26	2	0	0	2	0.23	0	1	0	1	0.16
Ear/nose	C30		0	0	0	0.00	2	0	0	2	0.31
Accessory sinus	C31	1	0	0	1	0.11	0	0	0	0	0.00
Heart & Mediastinum	C38	2	0	0	2	0.23	2	0	0	2	0.31
Bones - limbs	C40	4	4	9	17	1.95	2	7	6	15	2.35

Site	ICD- O	Male					Female				
		0-	5-	10-	total	%	5-	0-	10-	total	%
Bones - other	C41	3	11	20	34	3.89	4	6	16	26	4.08
Skin	C44	1	6	5	12	1.37	6	1	5	12	1.88
Nerves	C47	3	0	0	3	0.34	3	0	0	3	0.47
Peritoneum	C48	4	0	1	5	0.57	3	1	0	4	0.63
Soft tissues	C49	15	2	7	24	2.75	2	4	9	15	2.35
Vagina	C52	0	0	0	0	0.00	0	0	1	1	0.16
Ovary	C56	0	0	0	0	0.00	4	4	9	17	2.67
Testis	C62	13	0	0	13	1.49	0	0	0	0	0.00
Kidney	C64	28	11	1	40	4.58	41	13	2	56	8.79
Urinary bladder	C67	3	2	3	8	0.92	0	1	0	1	0.16
Other urinary organs	C68	0	0	0	0	0.00	0	0	0	0	0.00
Eye	C69	20	3	1	24	2.75	19	5	0	24	3.77
Meninges	C70	2	1	1	4	0.46	2	0	2	4	0.63
Brain	C71	44	49	49	142	16.25	30	57	29	116	18.21
Nervous system	C72	5	1	4	10	1.14	3	0	4	7	1.10
Thyroid gland	C73	0	0	7	7	0.80	0	0	7	7	1.10
Adrenal gland	C74	11	3	0	14	1.60	2	0	0	2	0.31
Endocrine - other	C75	0	2	1	3	0.34	0	2	0	2	0.31
NOS (not otherwise specified)	C76	7	2	2	11	1.26	10	3	1	14	2.20
Unknown	C80	9	4	5	18	2.06	6	1	3	10	1.57

Site	Male					Female				
	0-	5-	10-	total	%	0-	5-	10-	total	%
Non-Hodgkin lymphoma	42	42	24	108	12.36	26	15	12	53	8.32
Hodgkin disease	12	30	26	68	7.78	1	10	17	28	4.40
Plasma cell tumor	2	0	1	3	0.34	1	0	0	1	0.16
Chronic myeloproliferative disorder	1	0	2	3	0.34	0	0	1	1	0.16
Leukemia	127	90	56	273	31.24	93	59	42	194	30.46
Myeloid dysplastic syndromes	1	1	2	4	0.46	1	1	0	2	0.31
Immunoproliferative disease	0	0	1	1	0.11	0	0	0	0	0.00
Total	369	272	233	874	100.00%	273	194	170	637	100.00%

3.5.3. Distribution and incidence rate of cancer in children by provinces stratified by age group and gender:

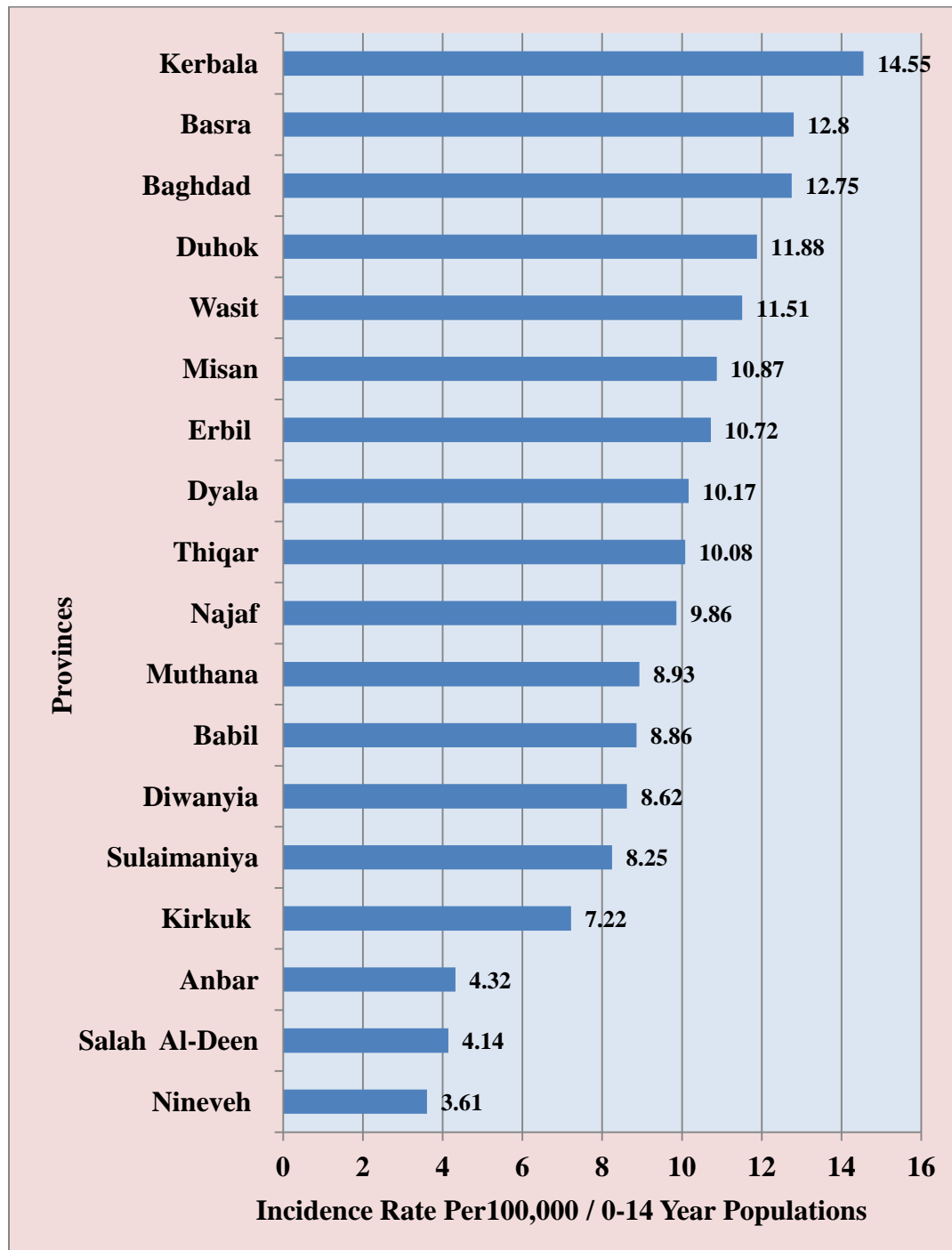
Table No.; (94) shows that the highest percentage was reported in Baghdad province and the lowest was reported in Salah Al-Deen province in both genders.

Table No.; (94) Distribution of Cancer in Children by Provinces Stratified by Age Group and Gender, Iraq, 2016

Provinces	No.		No.		No.		Total	%
	0-4		5-9		10-14			
	Male	Female	Male	Female	Male	Female		
Baghdad	79	89	61	53	58	43	383	25.35
Basra	39	28	31	19	23	20	160	10.59
Thiqr	26	13	17	12	13	8	89	5.89
Babil	18	14	15	7	12	9	75	4.96
Erbil	24	16	10	7	11	5	73	4.83
Kerbala	17	6	16	12	14	7	72	4.77
Wasit	11	18	11	3	9	14	66	4.37
Dyala	21	9	12	15	4	4	65	4.30
Duhok	13	15	8	7	8	10	61	4.04
Najaf	13	6	10	9	12	10	60	3.97
Nineveh	20	9	9	5	9	7	59	3.90
Sulaimaniya	13	6	10	9	12	10	60	3.84
Misan	12	7	9	7	13	4	52	3.44
Diwanyia	6	5	7	12	10	7	47	3.11
Kirkuk	8	6	12	7	10	2	45	2.98
Anbar	9	5	6	2	6	4	32	2.12
Muthana	8	1	10	5	5	2	31	2.05
Salah Al-Deen	12	4	6	1	3	2	28	1.85
Unknown Address	16	17	9	4	6	3	55	3.64
Total	369	273	272	194	233	170	1,511	100.00%

Figure No.; (87) shows that the highest incidence was reported in Kerbala province and the lowest was reported in Salah Al-Deen province.

Figure No.; (87) Incidence Rate (Per 100,000/0-14 Year Populations) of Top Ten Cancer in Children by Provinces, Iraq, 2016



3.6. Cancer mortality:

3.6.1. Distribution and incidence rate of the top ten cause of mortality by cancer:

Table No.; (95), Figure No.; (88) shows the distribution of top ten cause of mortality by cancer, it shows that the highest percentage and incidence was bronchus & lung, cancer, while the last cause was stomach cancer.

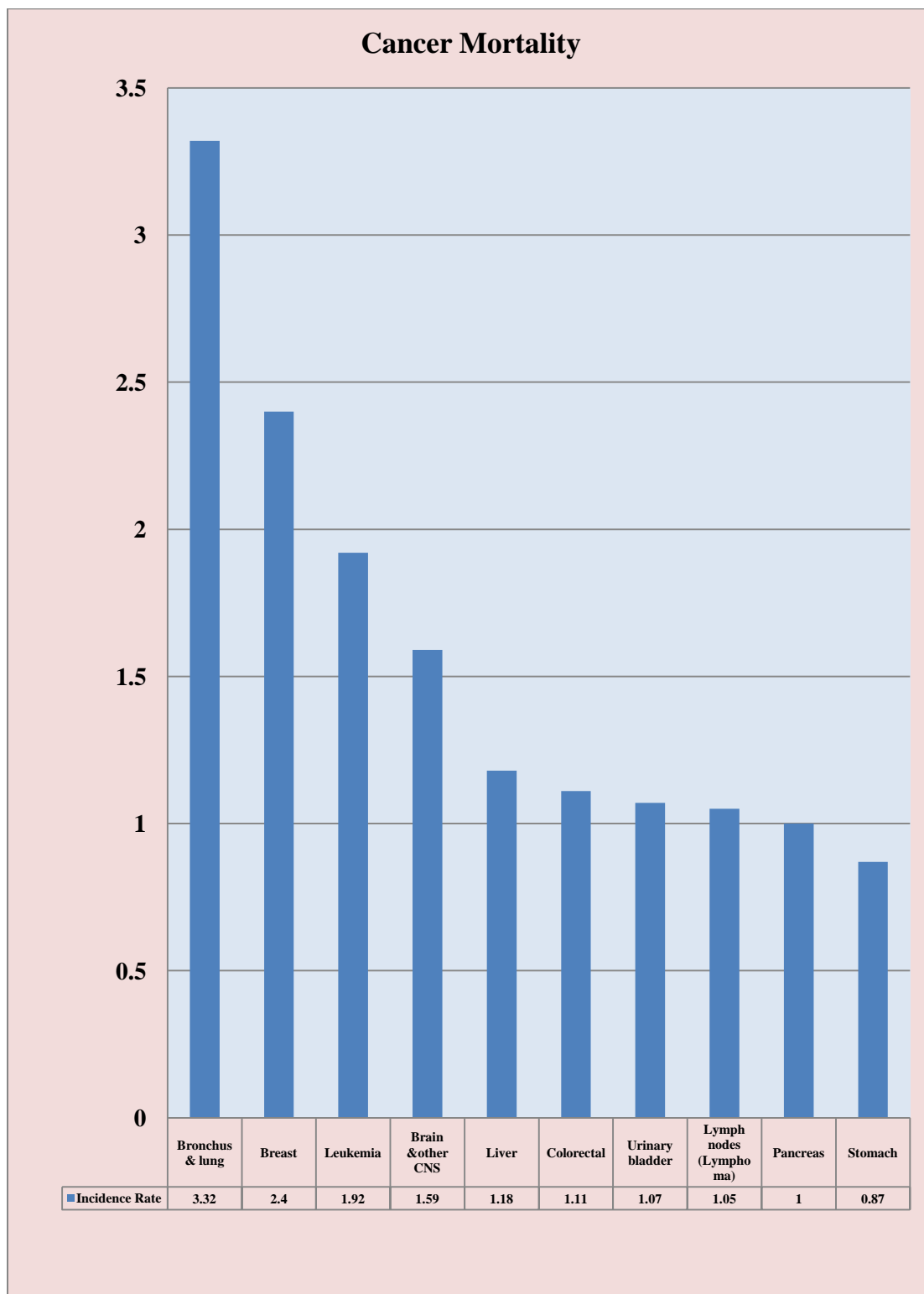
Table No.; (95) Distribution of Top Ten Cause of Mortality by Cancer, Iraq, 2016

Top ten cancer mortality	No.	%
Bronchus & lung	1,257	16.61
Breast	909	12.01
Leukemia*	729	9.63
Brain & other CNS**	604	7.98
Liver	446	5.89
Colorectal	420	5.55
Urinary bladder	405	5.35
Lymph nodes (Lymphoma)	398	5.26
Pancreas	380	5.02
Stomach	330	4.36
Mortality from other site	1,690	22.33
Total cancer mortality	7,568	100%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

Figure No.; (88) Incidence Rate (Per 100,000Population) of Top Ten Cause of Mortality by Cancer, Iraq, 2016



3.6.2. Distribution and incidence rate of the top ten cause of mortality by cancer in male:

Table No.; (96), Figure No.; (89) shows the distribution and the incidence rate of top ten cause of mortality by cancer in male, it shows that the highest percentage and incidence was among bronchus & lung cancer, while the lowest was among stomach cancer.

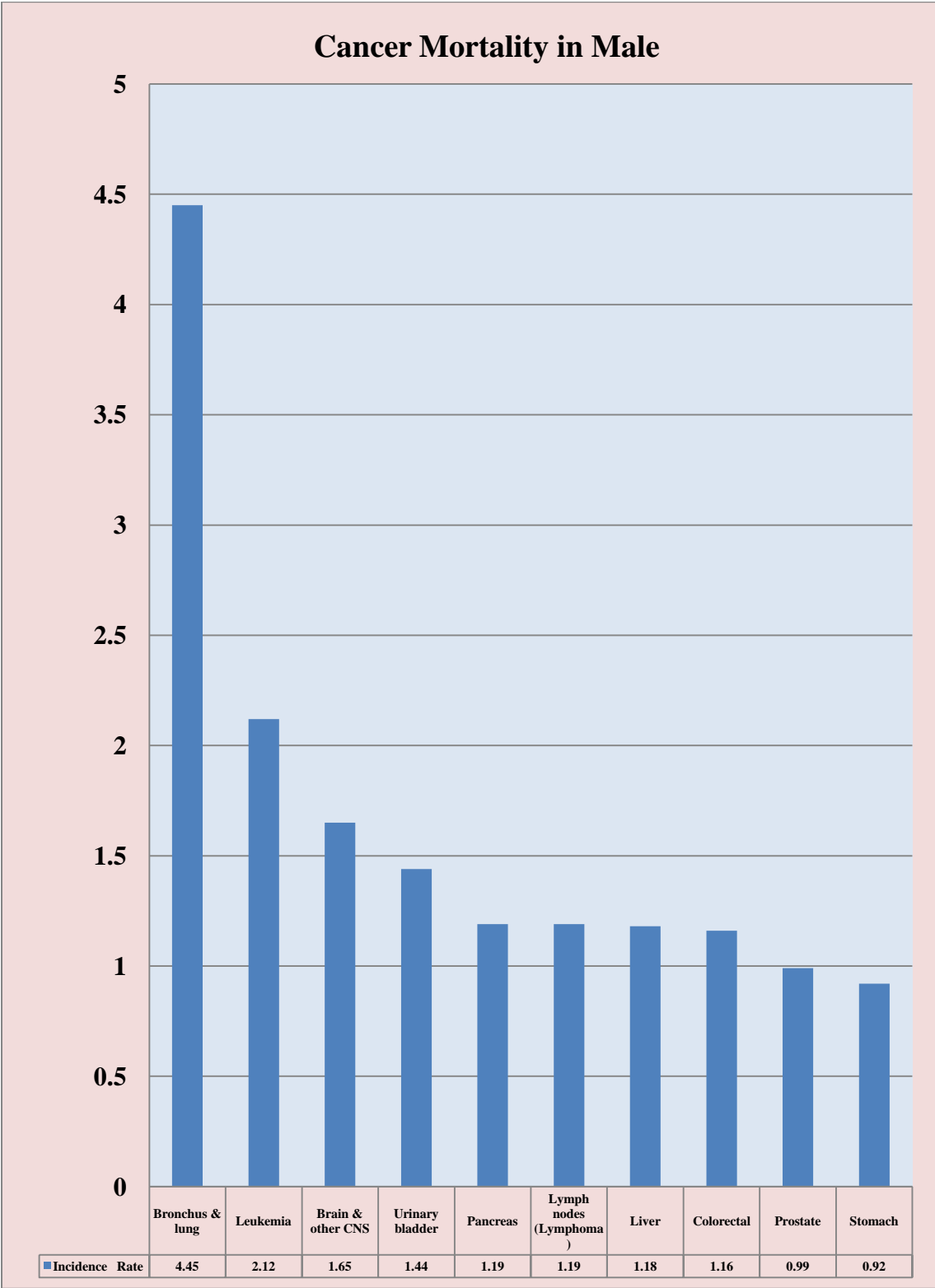
Table No.; (96) Distribution of Top Ten Cause of Mortality by Cancer in Male, Iraq, 2016

Top ten cancer mortality	No.	%
Bronchus & lung	851	22.62
Leukemia*	406	10.79
Brain & other CNS**	315	8.37
Urinary bladder	276	7.34
Pancreas	228	6.06
Lymph nodes (Lymphoma)	227	6.03
Liver	225	5.98
Colorectal	222	5.90
Prostate	190	5.05
Stomach	177	4.70
Mortality from other site	645	17.15
Total cancer mortality in male	3,762	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

Figure No.; (89) Incidence Rate (Per 100,000MP) of Top Ten Cause of Mortality by Cancer in Male, Iraq, 2016



3.6.3. Distribution and incidence rate of the top ten cause of mortality by cancer in female:

Table No.; (97), Figure No.; (90) shows the distribution and the incidence rate of top ten cause of mortality by cancer in female, which shows that the highest percentage and incidence was among breast cancer, while the lowest was among pancreas cancer.

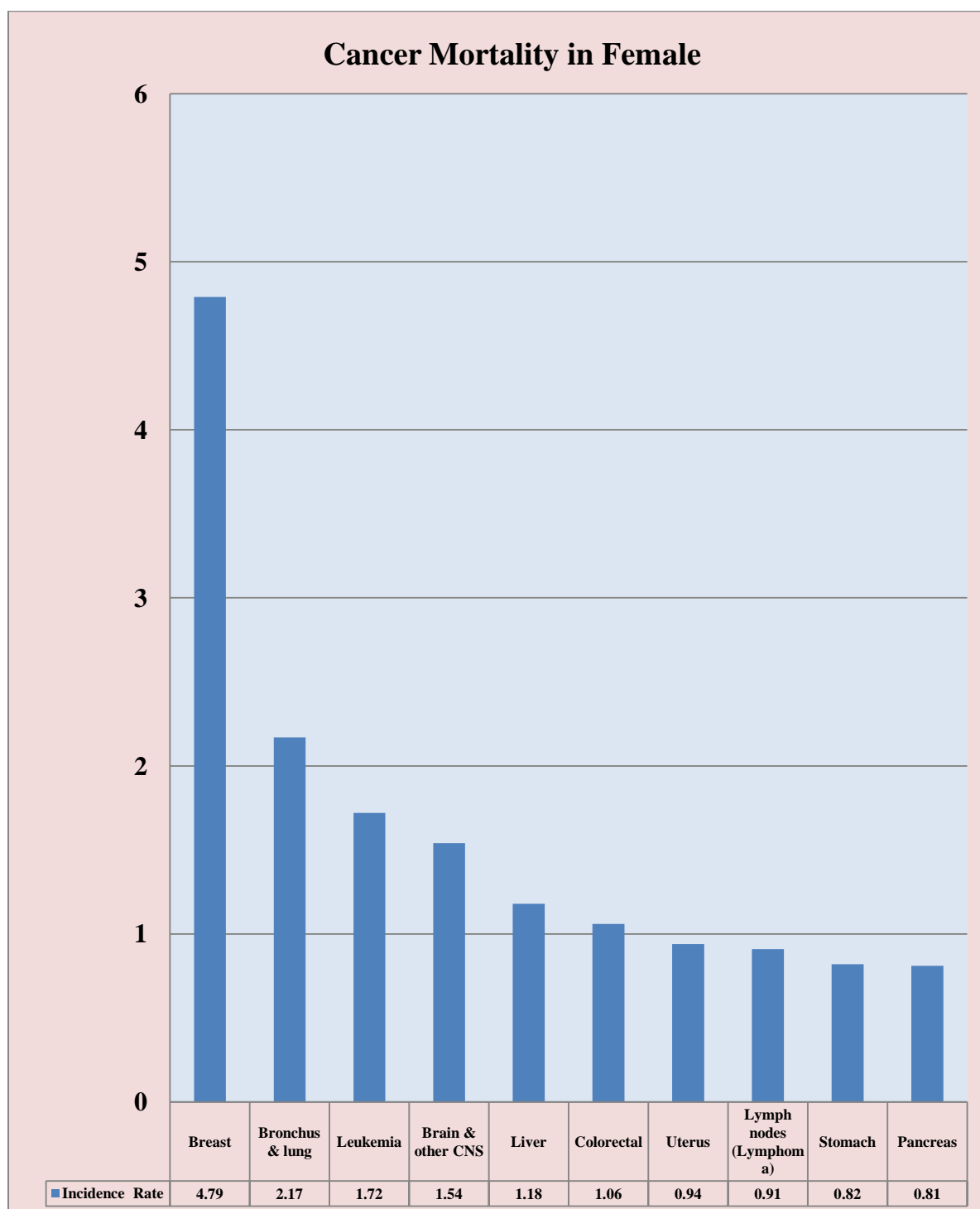
Table No. (97) Distribution of Top Ten Cause of Mortality by Cancer in Female, Iraq, 2016

Top ten cancer mortality	No.	%
Breast	897	23.57
Bronchus & lung	406	10.67
Leukemia*	323	8.49
Brain & other CNS**	289	7.59
Liver	221	5.81
Colorectal	198	5.20
Uterus	176	4.62
Lymph nodes (Lymphoma)***	171	4.49
Stomach	153	4.02
Pancreas	152	3.99
Mortality from other site	820	21.54
Total cancer mortality in female	3,806	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

**Brain & other CNS (benign & malignant tumors of the brain, cerebellum, brain stem, Meninges, spinal cord).

Figure No.; (90) Incidence of Mortality Rate (Per 100,000FP) of Top Ten Cause of Mortality by Cancer in Female, Iraq, 2016



3.6.4. Distribution and incidence rate of the top ten cause of mortality by Provinces:

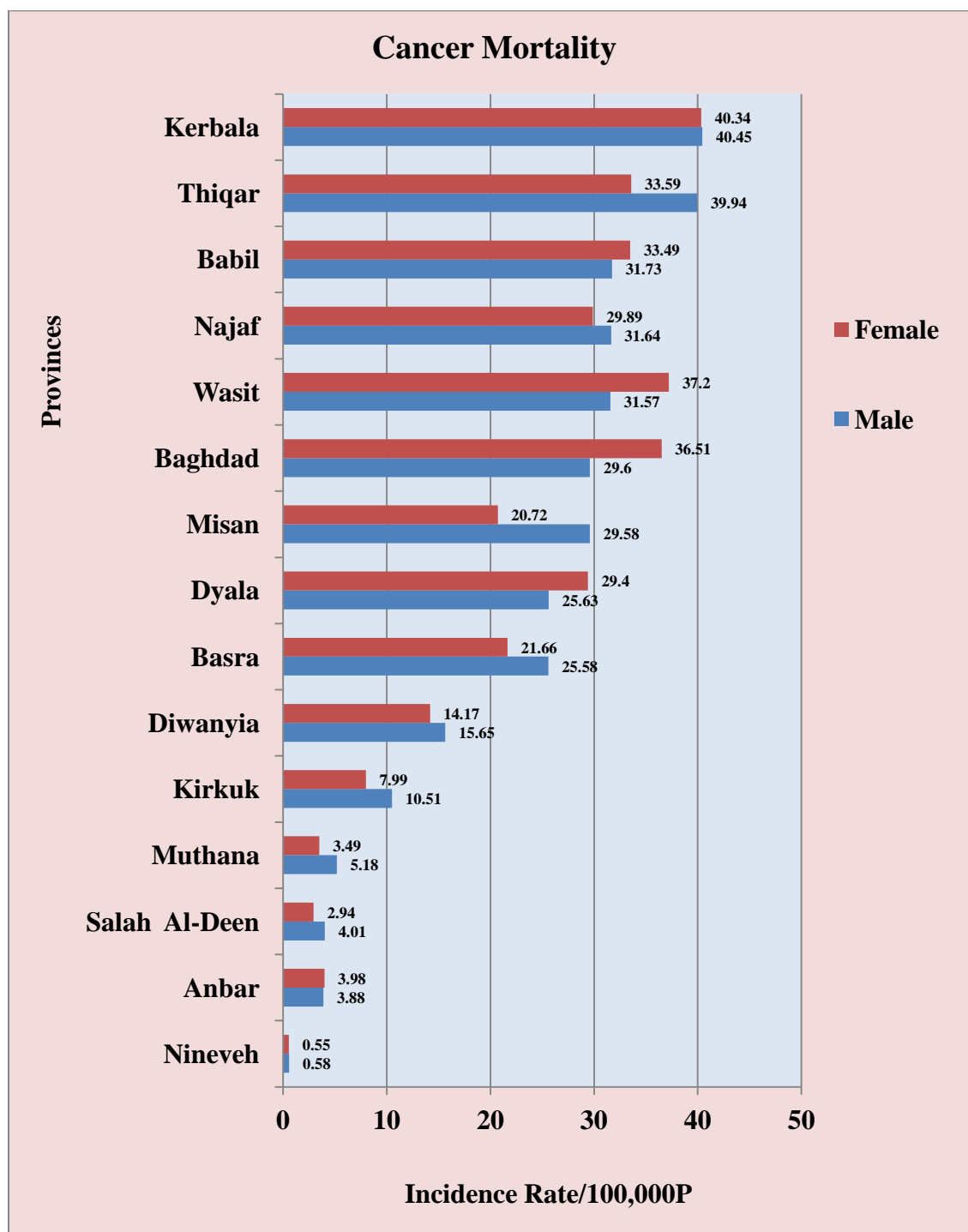
Table No.; (98), Figure No.; (91) shows the distribution and the incidence rate of top ten cause of mortality by cancer in provinces, it shows that the highest percentage was in Baghdad, while the lowest was in Nineveh. Male to female ratio was 0.9:1. The highest incidence was in Kerbala, and the lowest was in Nineveh provinces.

Table No.; (98) Distribution of Cancer Mortality by Provinces Stratified by Gender, Iraq, 2016

Provinces	Male		Female		Total	
	N.	%	N.	%	N.	%
Baghdad	1,216	16.07	1,456	19.24	2,672	35.31
Thiqr	417	5.51	348	4.60	765	10.11
Basra	372	4.92	312	4.12	684	9.04
Babil	328	4.33	339	4.48	667	8.81
Kerbala	247	3.26	242	3.20	489	6.46
Wasit	218	2.88	252	3.33	470	6.21
Najaf	232	3.07	218	2.88	450	5.95
Dyala	210	2.77	236	3.12	446	5.89
Misan	163	2.15	115	1.52	278	3.67
Diwanyia	101	1.33	90	1.19	191	2.52
Kirkuk	84	1.11	63	0.83	147	1.94
Anbar	35	0.46	34	0.45	69	0.91
Salah Al-Deen	32	0.42	23	0.30	55	0.73
Muthana	21	0.28	14	0.18	35	0.46
Nineveh	11	0.15	10	0.13	21	0.28
Unknown address	75	0.99	54	0.71	129	1.70
Total	3,762	49.71%	3,806	50.29%	7,568	100.00%

Note: Without Erbil, Duhok, and Sulaimaniya.

Figure No.; (91) Incidence Rate (Per 100,000Population), of Cancers Mortality by Provinces, Iraq, 2016



3.7. Cancer among Non-Iraqis:

3.7.1. Distribution of the type of cancer among non-Iraqis by gender:

Table No.; (99) shows that the commonest type of cancer in males was colorectal cancer followed by lung cancer.

Table No.; (99) Distribution Cancer among Non-Iraqis in Male, 2016

Type of Cancer in Male	No.	%
Colorectal	9	23.8
Bronchus & lung	6	15.8
Stomach	2	5.3
Gastrointestinal tract	2	5.3
Leukemia*	2	5.3
Testis	2	5.3
Urinary bladder	2	5.3
Non-Hodgkin lymphoma**	2	5.3
Naso-pharynx	1	2.6
Esophagus	1	2.6
Liver	1	2.6
Pancreas	1	2.6
Supra-glottis	1	2.6
Long bones of lower limb	1	2.6
Skin of trunk	1	2.6
Breast	1	2.6
Prostate	1	2.6
Head, face and neck	1	2.6
Unknown primary site cancer	1	2.6
Total cancer	38	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

**Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

Table No.; (100) shows that the commonest type of cancer in female was breast cancer followed by colorectal cancer.

Table No.; (100) Distribution Cancer among Non-Iraqis in Female, 2016

Type of Cancer in Female	No.	%
Breast	18	50
Colorectal	6	16.6
Ovary	3	8.2
Leukemia*	1	2.8
Cervix	1	2.8
Placenta	1	2.8
Gastro-intestinal tract	1	2.8
Kidney	1	2.8
Pancreas	1	2.8
Gall-bladder	1	2.8
Bone of skull and face	1	2.8
Non-Hodgkin lymphoma**	1	2.8
Total cancer	36	100.00%

*Leukemia (acute leukemia, chronic leukemia, lymphoid leukemia, myeloid leukemia, other leukemia's).

**Non –Hodgkin lymphomas (nodal & extra nodal origin) and other sites.

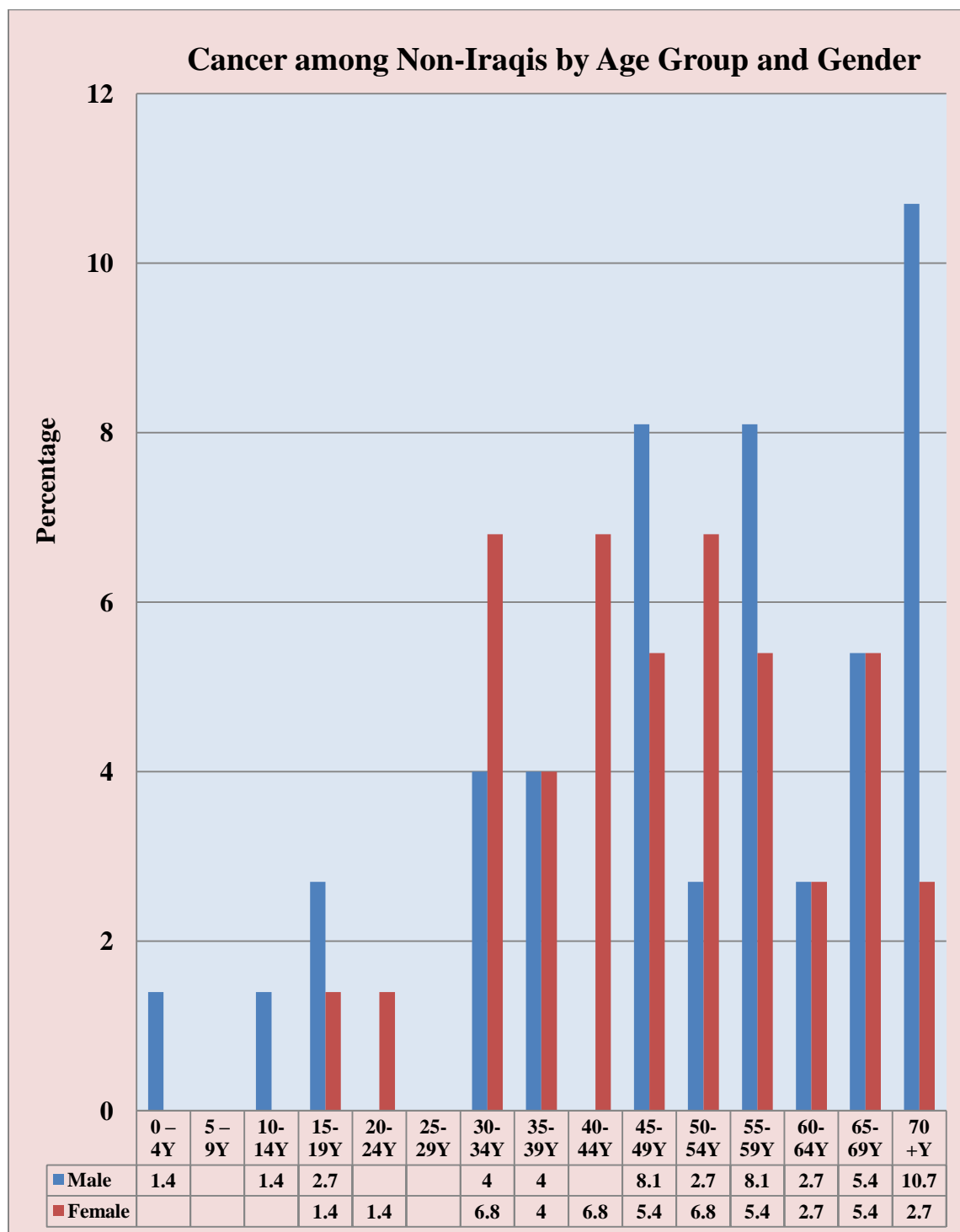
3.7.2. Distribution of Cancer among non-Iraqis by age group and gender:

Table No.; (101), Figure No.; (92) shows that the most affected age group in male was 70+years, while in female the most affected age group was 30-34y, 40-44y, and 50-54y.

Table No.; (101) Distribution of Cancer among Non-Iraqis by Age Group and Gender, Iraq, 2016

Age group	Male		Female		Total	
	N.	%	N.	%	N.	%
0 - 4	1	1.4	0	0	1	1.4
5 - 9	0	0	0	0	0	
10-14	1	1.4	0	0	1	1.4
15-19	2	2.7	1	1.4	3	4.1
20-24	0	0	1	1.4	1	1.4
25-29	0	0	0	0	0	0
30-34	3	4	5	6.8	8	10.8
35-39	3	4	3	4	6	8
40-44	0	0	5	6.8	5	6.8
45-49	6	8.1	4	5.4	10	13.5
50-54	2	2.7	5	6.8	7	9.5
55-59	6	8.1	4	5.4	10	13.5
60-64	2	2.7	2	2.7	4	5.4
65-69	4	5.4	4	5.4	8	10.8
70 +	8	10.7	2	2.7	10	13.4
Total	38	51.2%	36	48.8%	74	100%

Figure No.; (92) Distribution of Cancer among Non-Iraqis by Age Group and Gender, Iraq, 2016



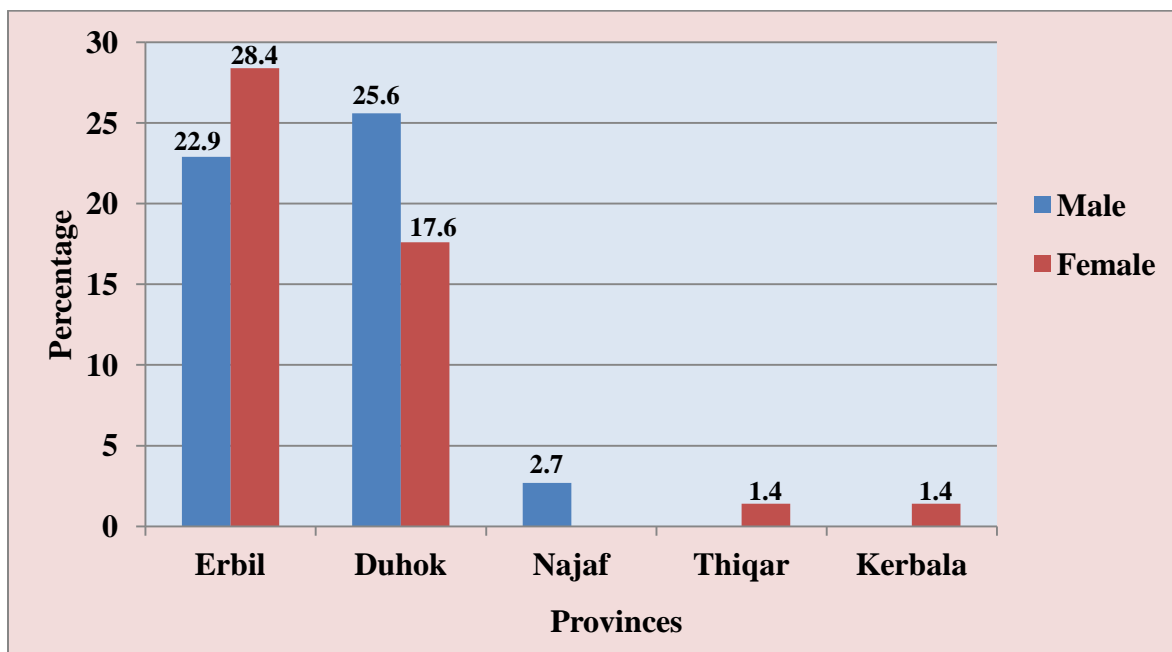
3.7.3. Distribution of cancer among non-Iraqis by provinces:

Table No.; (102), Figure No.; (93) shows that the highest percentage of cases in male was reported in Duhok provinces, while the highest percentage of cases in female was reported in Erbil provinces.

Table No.; (102) Distribution of New Cases of Cancer among Non-Iraqi by Provinces Stratified by Gender, Iraq, 2016

Provinces	Male		Female		Total	
	No.	%	No.	%	No.	%
Erbil	17	22.9	21	28.4	38	51.3
Duhok	19	25.6	13	17.6	32	43.2
Najaf	2	2.7	0	0	2	2.7
Thiqr	0	0	1	1.4	1	1.4
Kerbala	0	0	1	1.4	1	1.4
Total	38	51.2%	36	48.8%	74	100.00%

Figure No.; (93) Distribution of New Cases of Cancer among Non-Iraqi by Provinces Stratified by Gender, Iraq, 2016



3.7.4. Distribution of crude cancer among non-Iraqi by site and age group:

Table No.; (103) Distribution of Crude Cancer among Non-Iraqi by Site and Age Group in Male, Iraq, 2016

Site	ICDO	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	%
Nasopharynx	C11	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2.6
Esophagus	C15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2.6
Stomach	C16	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	5.3
Colon	C18	0	0	0	0	0	0	0	2	0	2	1	2	0	0	0	7	18.5
Rectum	C20	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2	5.3
Liver	C22	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2.6
Pancreas	C25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2.6
Other digestive organ	C26	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	5.3
Glottis / larynx	C32	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2.6
Bronchus & lung	C34	0	0	0	0	0	0	0	0	0	1	0	1	1	1	2	6	15.8
Bones - limbs	C40	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2.6
Skin	C44	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2.6
Breast	C50	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2.6
Prostate	C61	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2.6
Testis	C62	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	5.3
Urinary bladder	C67	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	5.3
Not otherwise specified	C76	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2.6
Unknown	C80	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2.6
Non-Hodgkin lymphoma		0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	5.3
Leukemia		0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	5.3
Total		1		1	2	0	0	3	3	0	6	2	6	2	4	8	38	100.00%

Table No.; (104) Distribution of Crude Cancer among Non-Iraqi by Site and Age Group in Female, Iraq, 2016

Site	ICDO	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	%
Colon	C18	0	0	0	0	1	0	1	0	0	0	1	0	0	1	0	4	11
Recto sigmoid junction	C19	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2.8
Rectum	C20	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2.8
Gall bladder	C23	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2.8
Pancreas	C25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2.8
Other digestive organ	C26	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2.8
Bones - other	C41	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2.8
Breast	C50	0	0	0	0	0	0	3	3	4	2	2	2	0	1	1	18	50
Cervix	C53	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2.8
Ovary	C56	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	3	8.2
Placenta	C58	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	2.8
Kidney	C64	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2.8
Non-Hodgkin's lymphoma		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2.8
Leukemia		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2.8
Total		0	0	0	1	1	0	5	3	5	4	5	4	2	4	2	36	100.00%

3.7.5. Distribution of cancer mortality among non-Iraqi by age, provinces, and morphology:

Table No.; (105) shows that the mortality cancer among non- Iraqis was 3 cases only and all are females, those cases reported in Duhok, Basra, and, Baghdad provinces. The causes of cancer mortality were Bronchus & lung (Squamous cell carcinoma), Brain & other CNS (Glioma), and Abdomen (Neoplasm).

Table No.; (105) Distribution of Cancer Mortality among Non-Iraqi in Female, Iraq, 2016

Provinces	No. of cases	Age	Type of cancer	Code	Morphology
Duhok	1	40 year	Bronchus & lung	C34.9	Squamous cell carcinoma
Basra	1	63 year	Brain & other CNS	C71.9	Glioma
Baghdad	1	62 year	Abdomen	C76.2	Neoplasm
Total	3				

4. Recommendations:

- ❖ Further research accompanied by more evaluation processes are needed so as to exactly specify the real burden of cancer.
- ❖ A series of regular workshops necessary for training staff members, and providing annual funds will necessarily guarantee access to good quality information from Iraqi Cancer Registry, and will consequently urge staff members to get involved in the cancer registration field.
- ❖ Public Health officials and stakeholders need to:
 - Exerting further efforts in working on reviews of the existing evidence on the relations between environmental factors and cancer. The preparation and dissemination of such reports on the magnitude of those risks and their common determinants, hand in hand with focusing on the most susceptible groups would help communities to plan interventions.
 - Strategies for action should be identified and proposed, upon the basis of the priority issues identified, and the experience with preventive interventions and their effectiveness.
 - Playing a crucial role in the processes of preventing and controlling cancer may be initiated by implementing effective preventive community-based programs via regulatory measures, environmental changes and education.

Annex:

Ministry Of Health Iraqi Cancer Registry

Can Reg

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I. Patient information

١. الاسم الاول : <input type="text"/>		٢. اسم الاب : <input type="text"/>	
First Name <input type="text"/>		Fathers Name <input type="text"/>	
٣. اسم العائلة : <input type="text"/>		٤. اسم الام : <input type="text"/>	
Family Name <input type="text"/>		Mothers Name <input type="text"/>	
Sex <input type="checkbox"/> (1.Male 2.Female 3.Unknown)	Birth Date <input type="text"/>		
Age <input type="text"/>			
Nationality <input type="checkbox"/> (1.Iraqi 2.Arab 3.Unknown)			
Address <input type="text"/>	Telephone <input type="text"/>		
٥. العنوان : (المحافظة: <input type="text"/> المدينة: <input type="text"/> المحلة: <input type="text"/> الزقاق: <input type="text"/> دار: <input type="text"/>			
Address Detail <input type="text"/>			
٦. المهنة : (١. ربة بيت (٢. عامل مزارع (٣. تقني (٤. موظف (٥. معلم (٦. مهني (٧. كاسب (٨. اخرى (٩. غير موظف			
Occupation <input type="checkbox"/> (0.House wife 1.Manual 2.Agriculture 3.Technical 4.Office Gang 5.Teaching			
6.Professional 7.Business 8.Other 9.Unknown)			
Tumour			
Diagnosis <input type="text"/>			
Basis of diagnosis <input type="checkbox"/> (0.Death certificate 1.Clinical only 2.Clinical investigation 3.Surgery/autopsy			
4.Laboratory test 5. Cytology Haematological 6.Histology of Metastases			
7.Histology of Primary 8.Autopsy with Histology 9.Unknown)			
Topography <input type="text"/>		Morphology <input type="text"/>	
Behaviour <input type="checkbox"/> (0.Bengin 1.Uncertain behaviour 2.In situ 3.Malignant)			
Grad <input type="checkbox"/> (1.Grad 2.Grade II 3.Grade III 4.Grade IV 5.T-Cell 6.B-Cell 7.Null Cell			
8.Killer Cell 9.Unknown)			
Extent <input type="checkbox"/> (1.In situ 2.Localised 3.Regional:Direct Extension 4.Regional:Lymph nodes			
5.Direct L. N. ext. 7.Distant metastasis 8.Not applicable 9.Unknown)			
T <input type="checkbox"/>	(Advanced / Localized)		
N <input type="checkbox"/>	(+/0)	Multiple Primary	<input type="text"/>
M <input type="checkbox"/>	(+/0)	ICD - 10	<input type="text"/>
Hospital		Treatment	
Hospital <input type="text"/>	Date <input type="text"/>	No Patient <input type="text"/>	Surgery <input type="checkbox"/> (1.Yes 2.No 9.Unknown)
اسم المستشفى <input type="text"/>	<input type="text"/>	<input type="text"/>	Radiotherapy <input type="checkbox"/> (1.Yes 2.No 9.Unknown)
اسم المستشفى <input type="text"/>	<input type="text"/>	<input type="text"/>	Chemotherapy <input type="checkbox"/> (1.Yes 2.No 9.Unknown)
اسم المستشفى <input type="text"/>	<input type="text"/>	<input type="text"/>	
Path Lab. <input type="text"/>	Date <input type="text"/>	Path Lab. No. <input type="text"/>	Hormonal therapy <input type="checkbox"/> (1.Yes 2.No 9.Unknown)
اسم المستشفى <input type="text"/>	<input type="text"/>	<input type="text"/>	Immunotherapy <input type="checkbox"/> (1.Yes 2.No 9.Unknown)
اسم المستشفى <input type="text"/>	<input type="text"/>	<input type="text"/>	
Follow up			
Date of last Contact or Death <input type="text"/>			
Status <input type="checkbox"/> (1.Dead 2.Alive)			
Cause of Death <input type="checkbox"/> (1.Cancer 2.Other 9.Unknown)			
ملاحظة : يرجى املء الحقول رقم (٨٠٧٠٦٠٥٠٤٠٣٠٢٠١) باللغة العربية وترك مايقابلها لمركز التسجيل السرطاني.			
اسم منظم الاستمارة وتوقيعه			
التاريخ : ٢٠١ / /			
الاحصائي :			

وزارة الصحة / مطابع دائرة العيادات الطبية الشعبية

العدد الكلي للحالات السرطانية الجديدة المسجلة بين الأطفال (دون سن الخامسة عشر) هو ١,٥١١ من مجموع ٢٥,556 (العدد الكلي للإصابات السرطانية ولكافة الفئات العمرية)، ونسبة الإصابة للذكور مقارنة بالاناث هو 1:3,1 وأن أعلى تقدير سنوي للإصابات بين الأطفال هو بسبب اللوكيميا (3,07 لكل مئة ألف من السكان/ فئة الأعمار دون سن الخامسة عشر). كما لوحظ أن أعلى نسبة سجلت في محافظة بغداد (25,35%) وادنى نسبة سجلت في محافظة صلاح الدين (1,85%).

العدد الكلي للوفيات بسبب السرطان خلال سنة ٢٠١٦ هو 7,568 وقد لوحظ أن نسبة الوفاة للرجال مقارنة بالنساء تقريبا متساوية. كما لوحظ أن أعلى تقدير سنوي للوفاة عند الرجال هو بسبب سرطان القصبات والرئة (4,45 لكل مئة ألف من السكان من فئة الرجال) و أعلى تقدير سنوي للوفاة عند النساء هو بسبب سرطان الثدي (4,79 لكل مئة ألف من السكان من فئة النساء). كما أن أعلى تقدير سنوي للوفاة عند الرجال والنساء بسبب السرطان سجل في محافظة كربلاء (4,45 لكل مئة ألف من السكان من فئة الرجال و 40,34 لكل مئة ألف من السكان من فئة النساء). وأن أدنى تقدير سنوي للوفاة عند الرجال والنساء بسبب السرطان سجل في محافظة نينوى (0,58 لكل مئة ألف من السكان من فئة الرجال و 0,55 لكل مئة ألف من السكان من فئة النساء).

العدد الكلي للحالات السرطانية لغير العراقيين خلال سنة ٢٠١٦ هو 74 ونسبة الإصابة للذكور مقارنة بالاناث تقريبا متساوية. كما أن أكثر الأعمار عرضة للإصابة بالسرطان لفئة الرجال هو ٧٠ سنة فما فوق اما بالنسبة لفئة النساء فإن أكثر الأعمار عرضة للإصابة بالسرطان هو 30-34، 40-44 و 50-54 سنة. وقد لوحظ أن أعلى نسب للإصابات السرطانية عند الرجال كانت بسبب سرطان القولون والمستقيم (23,8%) يليه سرطان القصبات والرئة (15,8%) اما أعلى نسب للإصابات السرطانية عند النساء كانت بسبب سرطان الثدي (50%) يليه سرطان القولون والمستقيم (16,6%). العدد الكلي للوفيات بسبب السرطان لغير العراقيين خلال سنة ٢٠١٦ هو ثلاث نساء فقط. وقد لوحظ أن أعلى نسبة للحالات السرطانية لفئة الرجال تم تسجيلها في محافظة دهوك (25,6%) وأعلى نسبة للحالات السرطانية لفئة النساء تم تسجيلها في محافظة اربيل (28,4%).

ملخص التقرير السنوي:

التقرير السنوي للتسجيل السرطاني في العراق يعطي معلومات عن الحالات السرطانية الجديدة المشخصة خلال السنة بالإضافة إلى حالات الوفاة المسجلة بسبب السرطان، عن طريق جمع البيانات من المستشفيات والمختبرات (الحكومية والأهلية) في جميع دوائر الصحة في العراق بواسطة برنامج 4 CanReg.

العدد الكلي للحالات السرطانية الجديدة المسجلة خلال سنة ٢٠١٦ هو ٢٥,556 ونسبة الإصابة للذكور مقارنة بالاناث هو 1:0,7. كما أن أكثر الأعمار عرضة للإصابة بالسرطان هو ٧ سنة فما فوق وقد لوحظ أن التقدير السنوي للإصابة يزداد بازدياد العمر، كما لوحظ أن أعلى تقدير سنوي للإصابة في كلا الجنسين كان في محافظة كربلاء (٩٦,62 لكل مئة ألف من فئة الرجال و123,02 لكل مئة ألف من فئة النساء) وأن أقل تقدير سنوي للإصابة كان في محافظة نينوى (14,65 لكل مئة ألف من السكان من فئة الرجال و19,82 لكل مئة ألف من السكان من فئة النساء)

أعلى نسب للإصابات السرطانية بصورة عامة كانت بسبب سرطان الثدي (١٩,55%)، سرطان القصبات والرئة (٨,3١%)، اللوكيميا (٦,48%)، سرطان القولون والمستقيم (٥,89%)، سرطان المثانة (٥,55%)، أورام الدماغ والجهاز العصبي المركزي (5,0١%)، سرطان الغدة اللمفاوية اللا هودجكيني (٤,68%)، سرطان الغدة الدرقية (4,39%)، سرطان الجلد (٣,64%)، وسرطان البروستات (٣,10%).

أعلى نسب للإصابات السرطانية عند الرجال كانت بسبب سرطان القصبات والرئة (13,27%)، سرطان المثانة (9,46%)، اللوكيميا (8,56%)، سرطان البروستات (7,07%)، سرطان القولون والمستقيم (6,79%)، أورام الدماغ والجهاز العصبي المركزي (6,1١%)، سرطان الغدة اللمفاوية اللا هودجكيني (5,88%)، سرطان الجلد (4,48%)، سرطان المعدة (3,75%)، وسرطان البنكرياس (3,03%). وأن أعلى تقدير سنوي للإصابة بالسرطان في الرجال هو بسبب سرطان القصبات والرئة (7,٧6 لكل مئة ألف من السكان من فئة الرجال) وأن ادنى تقدير سنوي للإصابة بالسرطان في الرجال هو بسبب البنكرياس (1,٧7 لكل مئة ألف من السكان من فئة الرجال). وقد لوحظ تناقص في نسبة التقدير السنوي لكل انواع السرطان عند الرجال في السنوات الست الأخيرة (٢٠١١-٢٠١٦).

أعلى نسب للإصابات السرطانية عند النساء كانت بسبب سرطان الثدي (34,27%)، سرطان الغدة الدرقية (6,02%)، سرطان القولون والمستقيم (5,81%)، اللوكيميا (4,87%)، سرطان القصبات والرئة (4,44%)، أورام الدماغ والجهاز العصبي المركزي (4,16%)، سرطان الرحم (3,98%)، سرطان الغدة اللمفاوية اللا هودجكيني (3,75%)، سرطان الجلد (2,98%)، سرطان المثانة (2,51%). وأن أعلى تقدير سنوي للإصابة بالسرطان في النساء هو بسبب سرطان الثدي (26,26 لكل مئة ألف من السكان من فئة النساء) وادنى تقدير سنوي للإصابة بالسرطان في النساء هو بسبب سرطان المثانة (1,92 لكل مئة ألف من السكان من فئة النساء). وقد لوحظ تناقص في نسبة التقدير السنوي لكل انواع السرطان عند النساء للسنوات الست الأخيرة (٢٠١١-٢٠١٦) عدا سرطان الغدة الدرقية فقد لوحظ تزايد في نسبة التقدير السنوي له في السنوات الست الأخيرة (٢٠١١-٢٠١٦).



بالرغم من التطور الهائل في تعزيز مفهوم مرض السرطان وعلاجه خلال العقدين الماضيين الا أنه يعتبر من أهم أسباب الوفاة في بلدنا وأن العبء الصحي والاقتصادي والاجتماعي لهذا المرض ما يزال في تزايد مستمر، وأن هذه الزيادة تنسجم مع زيادة معدل العمر للسكان. أن مرض السرطان يؤثر سلبا على الأداء الوظيفي للأفراد داخل المجتمع مما يؤدي الى تراجع واضح في القدرة على الإنتاج والأبتكار.

أن وزارة الصحة العراقية وعلى مدى عقود زمنية بذلت جهودا كبيرة للحد من مرض السرطان عن طريق الحد من العوامل المسببة للمرض وتخفيف الضرر الناتج عنه من خلال دعم برامج التحري و الكشف المبكر، وتشجيع وسائل الوقاية، وزيادة وعي المواطنين بهذا المرض وتوفير خدمات الرعاية الصحية لمرضى السرطان عن طريق مراكز السرطان المتكاملة والمجهزة بتجهيزات شاملة من حيث وسائل التشخيص والعلاج.

وبالرغم من التحديات التي واجهها بلدنا العراق في محاربة الارهاب المتمثل بتنظيم داعش الارهابي الا أن وزارة الصحة وضعت مشكلة السرطان ضمن اولوياتها وذلك من خلال تجنيد كافة الوسائل العلمية والمادية وحتى الدعم المعنوي من أجل الاستمرارية والمحافظة على الأنجازات التي تم تحقيقها خلال السنوات السابقة في هذا المجال.

يعتبر برنامج التسجيل السرطاني الحجر الأساس لوضع خطط السيطرة على السرطان، حيث يشمل التسجيل الالكتروني لأحصائيات الحالات السرطانية في كل وحدات التسجيل السرطاني في المحافظات والتي ترتبط مركزيا بشعبة التسجيل السرطاني في مجلس السرطان في وزارة الصحة حيث يتم جمع الأحصائيات وتحليلها وأصدار التقرير السنوي النهائي، الذي يحتوي على أحصائيات شاملة ودقيقة ومهمة لوضع خطط السيطرة على السرطان. وتبرز أهمية هذه الأحصائيات كونها المرجع الاساسي لتقدير الحاجة من العرض والطلب، المعدات الطبية والفنية، والعلاجات السرطانية لتغطي كل أجزاء العراق. كما وأن العديد من المراكز السرطانية في بغداد والمحافظات أثبتت وبنجاح اعتمادها على أحصائيات برنامج التسجيل السرطاني في هذا المجال.

ومن ناحية أخرى تظهر أهمية التسجيل السرطاني كونه المصدر القيم للدراسات والبحوث العلمية حيث أن هذه البحوث تركز لتعزيز الخطط المستقبلية للسيطرة على السرطان مما ينعكس على تطوير الوقاية، والتحري والخدمات في العراق.

أخيرا وليس آخرا، اقدم تقديري لكل الجهود الصادقة التي بذلت لغرض أنجاز هذا التقرير السنوي. والله ولي التوفيق.

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