



Republic of Iraq
Ministry of Health and Environment
Iraqi Cancer Board





Republic of Iraq

Ministry of Health and Environment

Iraqi Cancer Board

Annual Report

Iraqi Cancer Registry

2018

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WHO Office in Iraq
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List of Abbreviations

ADIS	Acquired Immune deficiency Syndrome
ANS	Autonomic Nervous System
CNS	Central Nervous System
EMR	Eastern Mediterranean Region
FP	Female Population
HIV	Human Immunodeficiency Virus
IARC	International Agency for Research on Cancer
ICD-O	International Classification of Diseases for Oncology
ICR	Iraqi Cancer Registry
IR	Incidence Rate
MP	Male Population
P	Population

Summary:

Iraqi Cancer Registry Annual Report provides information about cancer in Iraq including 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 2018 was 31,502 with incidence 82.62/100,000 P. The highest incidence was among the age group 70 year and more, and the incidence increased with the age. Related to the governorates the highest incidence rate in Iraq was recorded in Erbil (104.92/100,000 P). In males the highest incidence rate was recorded in Erbil also (96.97/100,000 MP), while in females the highest incidence rate was recorded in Al Sulaimanyia (115.21/100,000 FP). The lowest incidence rate in Iraq was recorded in Salaheldin (52.84/100,000 P), also for males the lowest incidence rate was recorded in Salaheldin (42.81/100,000 MP), while in females it was recorded in Kirkuk (62.88/100,000 FP).

The trend of the incidence rate of new cases of cancer increased from the year 1994 (38.91/100,000 P) to the year 2018 (82.62/100,000 P).

The top ten cancers in both genders were breast (19.70%, 16.28/100,000 P), bronchus & lung (8.19%, 6.77/100,000 P), colorectal (6.15%, 5.08/100,000 P), leukemia (6.03%, 4.98/100,000 P), urinary bladder (4.89%, 4.04/100,000 P), brain & other central nervous system tumor (CNS) (4.89%, 4.04/100,000 P), thyroid gland (4.49%, 3.71/100,000 P), Non-Hodgkin lymphomas (4.03%, 3.33/100,000 P), skin (3.63%, 3/100,000 P) and prostate (3.25%, 5.31/100,000 P).

The top ten cancers in males were bronchus & lung (13.44 %, 9.50/100,000 MP), urinary bladder (8.62%, 6.09/100,000 MP), leukemia (7.79%, 5.51/100,000 MP), colorectal (7.52%, 5.29/100,000 MP), prostate (7.48%, 5.31/100,000 MP), brain & other central nervous system tumor (CNS) (6.02%, 4.26/100,000 MP), Non-Hodgkin lymphomas (5.00%, 3.53/100,000 MP), skin (4.29%, 3.03/100,000 MP), stomach (3.85%, 2.72/100,000 MP) and pancreas (3.03%, 2.14/100,000 MP).

The top ten cancers in females were breast (34.06%, 32.31/100,000 FP), thyroid gland (6.13%, 5.82/100,000 FP), colorectal (5.13%, 4.87/100,000 FP), leukemia (4.68%, 4.44/100,000 FP), bronchus & lung (4.19%, 3.98/100,000 FP), ovary (4.03%, 3.82/100,000 FP), brain & other central nervous system tumor (CNS) (4.02%, 3.81/100,000 FP), Non-Hodgkin lymphomas (3.29%, 3.12/100,000 FP), skin (3.12%, 2.96/100,000 FP), and stomach (2.54%, 2.41/100,000 FP).

The total number of cancer in children (0-14 years) was 1,715 out of the 31,502 represent 5.44% of total cases of cancer of all age groups, with IR 11.12/100,000 children 0-14 year P. Related to the age group the highest incidence of top ten cancers was 0 - <5 years. The highest incidence rate of cancer in children was leukemia (3.56/100,000 children 0-14 years P). Related to the governorates the highest incidence of top ten cancers in children (0-14 years) was recorded in Al Muthana (14.52/100,000 children 0-14 year Populations) and the lowest was in Salaheldin (7.03/100,000 children 0-14 year P).

The total number of cancer mortality during the year 2018 was 10,293 with mortality rate 26.99/100,000 P. The highest mortality rate of cancers in general was bronchus & lung cancer (15.82%, 4.27/100,000 P), also the highest mortality rate of cancer in males was bronchus & lung cancer (22.30%, 6.05/100,000 MP), while in females the highest mortality rate of cancer was breast cancer (23.02%, 6.18/100,000 FP). Related to the age group the highest mortality rate of top ten cancers was among the age group 70 years and more. As to the governorates, the highest mortality rate of top ten cancers was recorded in Karballa governorate (5.12%, 31.43/100,000 P).

Introduction:

Globally cancer is the second leading cause of death and is estimated to account for 9.6 million deaths in 2018. Lung, prostate, colorectal, stomach and liver cancer are the most common types of cancer in men, while breast, colorectal, lung, cervix and thyroid cancer are the most common among women. 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 (EMR), 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 EMR 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

In Iraq malignant neoplasm's represented the third leading cause of death (9.05% of the top 10 leading cause of death in 2017), Table No.; (2).

Table No.; (2) Top 10 leading cause of death in Iraq, 2017 ^[5]

Rank	2017
1	Cerebrovascular diseases
2	Ischemic heart disease
3	Malignant neoplasm's
4	Heart failure
5	Renal failure
6	Hypertensive disease
7	Respiratory and cardiovascular disorders specific to the pre-natal period
8	Diabetes mellitus
9	Operation of war
10	Road Traffic Accident

Iraqi Cancer Registry

1. Iraqi Cancer Registry (ICR):

1.1. Description of ICR: The ICR is responsible for collecting information related to every new cancer patient in all governorates of Iraq. The cancer registration scheme is primarily concerned with malignant neoplasm's, but some benign (such as brain & other CNS tumor), 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 2017.

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 inpatient and outpatient 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. Data 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:

- 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 International Classification of Diseases for Oncology (ICD-O) code, 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.

Iraqi Geography *&* *Populations*

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 2018 by gender and age group. Table No.; (3 & 4), Figure No.; (1) ^[6].

**Table No.; (3) Estimated number and percentage of Iraq population by
gender and age group, 2018**

Age group	Male		Female		Total	
	N.	%	N.	%	N.	%
0 - 4	2,871,724	7.53	2,722,178	7.14	5,593,902	14.67
5 - 9	2,680,061	7.03	2,522,917	6.62	5,202,978	13.65
10-14	2,395,167	6.28	2,235,985	5.87	4,631,152	12.15
15-19	2,101,477	5.51	1,985,563	5.21	4,087,040	10.72
20-24	1,835,597	4.81	1,694,073	4.44	3,529,670	9.26
25-29	1,439,746	3.78	1,399,853	3.67	2,839,599	7.45
30-34	1,260,668	3.31	1,297,336	3.40	2,558,004	6.71
35-39	1,074,548	2.82	1,132,902	2.97	2,207,450	5.79
40-44	1,013,285	2.66	1,026,805	2.69	2,040,090	5.35
45-49	748,822	1.96	771,040	2.02	1,519,862	3.99
50-55	441,510	1.16	549,822	1.44	991,332	2.60
55-59	501,941	1.32	525,265	1.38	1,027,206	2.69
60-64	345,689	0.91	377,817	0.99	723,506	1.90
65-69	227,544	0.60	237,055	0.62	464,599	1.22
70-74	148,458	0.39	149,382	0.39	297,840	0.78
75-79	78,197	0.21	94,226	0.25	172,423	0.45
80+	96,819	0.25	140,710	0.37	237,529	0.62
Total	19,261,253	50.52%	18,862,929	49.48%	38,124,182	100.00%

Figure No.; (1) pyramid of estimated percentage of Iraq population by gender and age group, 2018

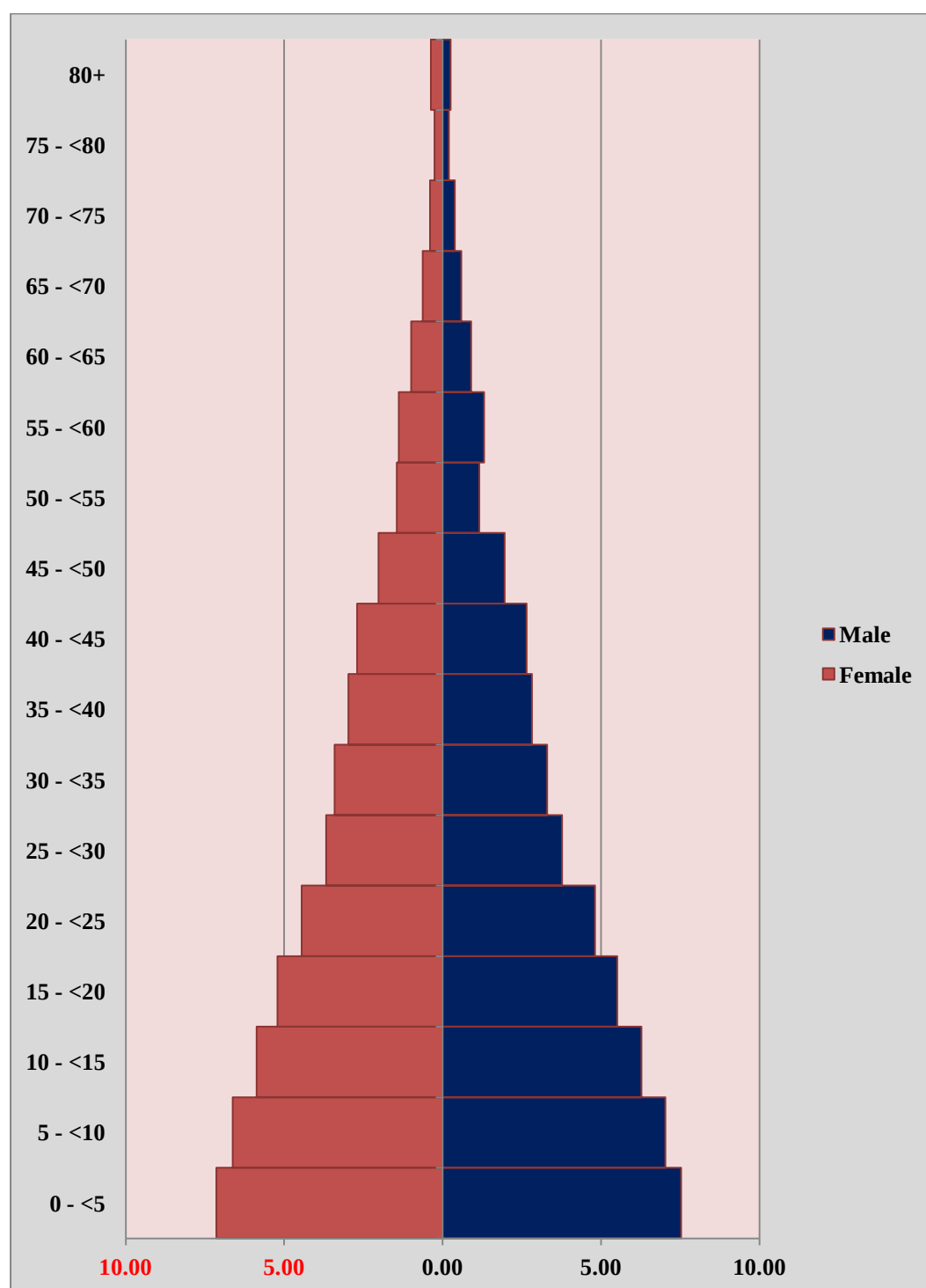


Table No.; (4) Estimated number of Iraq population by governorates and gender, 2018

Populations Number						
Governorates	Male		Female		Total	
	No.	%	No.	%	No.	%
Baghdad	4,123,626	10.82	4,003,129	10.50	8,126,755	21.32
Nineveh	1,905,395	5.00	1,824,603	4.79	3,729,998	9.78
Al Basra	1,461,123	3.83	1,447,368	3.80	2,908,491	7.63
Al Sulaimanyia	1,081,676	2.84	1,080,603	2.83	2,162,279	5.67
ThiQar	1,051,632	2.76	1,043,540	2.74	2,095,172	5.50
Babil	1,043,437	2.74	1,021,605	2.68	2,065,042	5.42
Erbil	936,387	2.46	918,391	2.41	1,854,778	4.87
Al Anbar	910,173	2.39	861,483	2.26	1,771,656	4.65
Diyala	827,052	2.17	810,174	2.13	1,637,226	4.29
Kirkuk	804,364	2.11	793,512	2.08	1,597,876	4.19
Salah Al-Deen	805,809	2.11	789,426	2.07	1,595,235	4.18
Al Najaf	737,828	1.94	733,764	1.92	1,471,592	3.86
Wasit	696,027	1.83	682,696	1.79	1,378,723	3.62
Duhok	647,679	1.70	644,856	1.69	1,292,535	3.39
Al Diwanyia	650,711	1.71	640,337	1.68	1,291,048	3.39
Karbala	614,798	1.61	603,934	1.58	1,218,732	3.20
Misan	554,314	1.45	558,359	1.46	1,112,673	2.92
Al Muthana	409,222	1.07	405,149	1.06	814,371	2.14
Total	19,261,253	50.52%	18,862,929	49.48%	38,124,182	100.00%

Results

History of Cancer in Iraq

3. Results:

3.1. History of Cancer in Iraq:

3.1.1. Distribution and Incidence Rate of new cases of cancer, Iraq, 1976 - 2018:

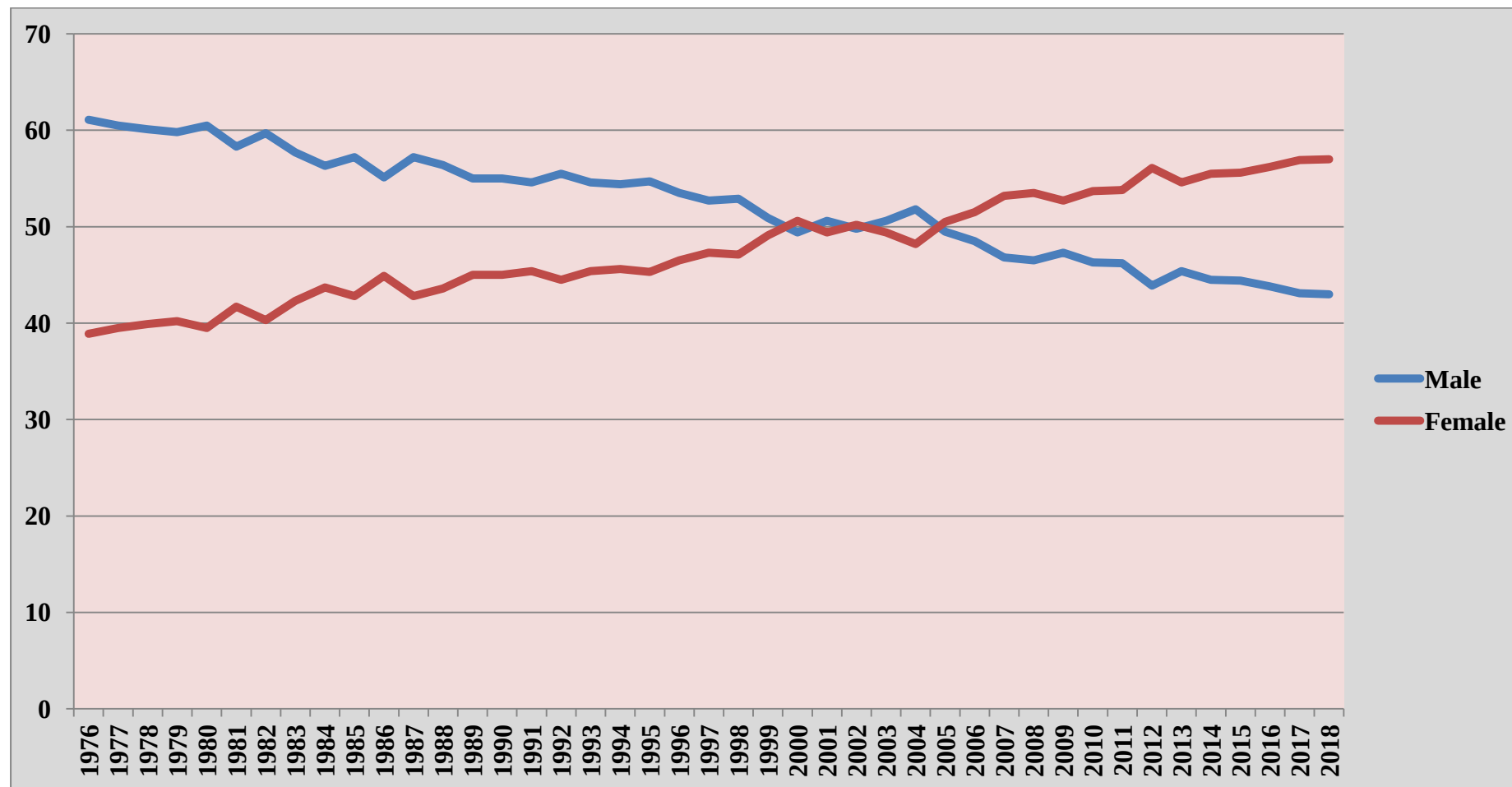
Table No.; (5) Figure No.; (2 & 3) shows the distribution of new cases of cancer in Iraq for the period from 1976 to 2018, which shows that the number of new cases of cancer was increased with the time.

Table No.; (5) Distribution and incidence rate /100,000 populations of new cases of cancer by gender, Iraq, 1994-2018

Year	Male		Female		Total		IR
	No.	%	No.	%	No.	%	
1994	4,230	54.4	3,555	45.6	7,785	100.00	38.91
1995	4,344	54.7	3,604	45.3	7,948	100.00	44.69
1996	4,466	53.5	3,894	46.5	8,360	100.00	45.69
1997	4,521	52.7	4,071	47.3	8,592	100.00	45.67
1998	4,774	52.9	4,259	47.1	9,033	100.00	45.74
1999	4,556	50.9	4,380	49.1	8,936	100.00	43.95
2000	5,376	49.4	5,512	50.6	10,888	100.00	52.00
2001	6,758	50.6	6,574	49.4	13,332	100.00	61.83
2002	6,964	49.8	7,021	50.2	13,985	100.00	62.97
2003	5,698	50.6	5,550	49.4	11,248	100.00	49.17
2004	7,525	51.8	6,995	48.2	14,520	100.00	61.63
2005	7,505	49.5	7,667	50.5	15,172	100.00	54.26
2006	7,377	48.5	7,849	51.5	15,226	100.00	52.84
2007	6,656	46.8	7,557	53.2	14,213	100.00	47.88
2008	6,589	46.5	7,591	53.5	14,180	100.00	44.46
2009	7,201	47.3	8,050	52.7	15,251	100.00	48.16
2010	8,544	46.3	9,938	53.7	18,482	100.00	56.89
2011	9,352	46.2	10,926	53.8	20,278	100.00	60.82
2012	9,268	43.9	11,833	56.1	21,101	100.00	61.69
2013	10,568	45.4	12,740	54.6	23,308	100.00	66.41
2014	11,411	44.5	14,187	55.5	25,598	100.00	71.10
2015	11,205	44.4	14,064	55.6	25,269	100.00	68.41
2016	11,194	43.8	14,362	56.2	25,556	100.00	67.45
2017	12,502	43.1	16,521	56.9	29,023	100.00	78.14
2018	13,612	43%	17,890	57%	31,502	100.00%	82.62

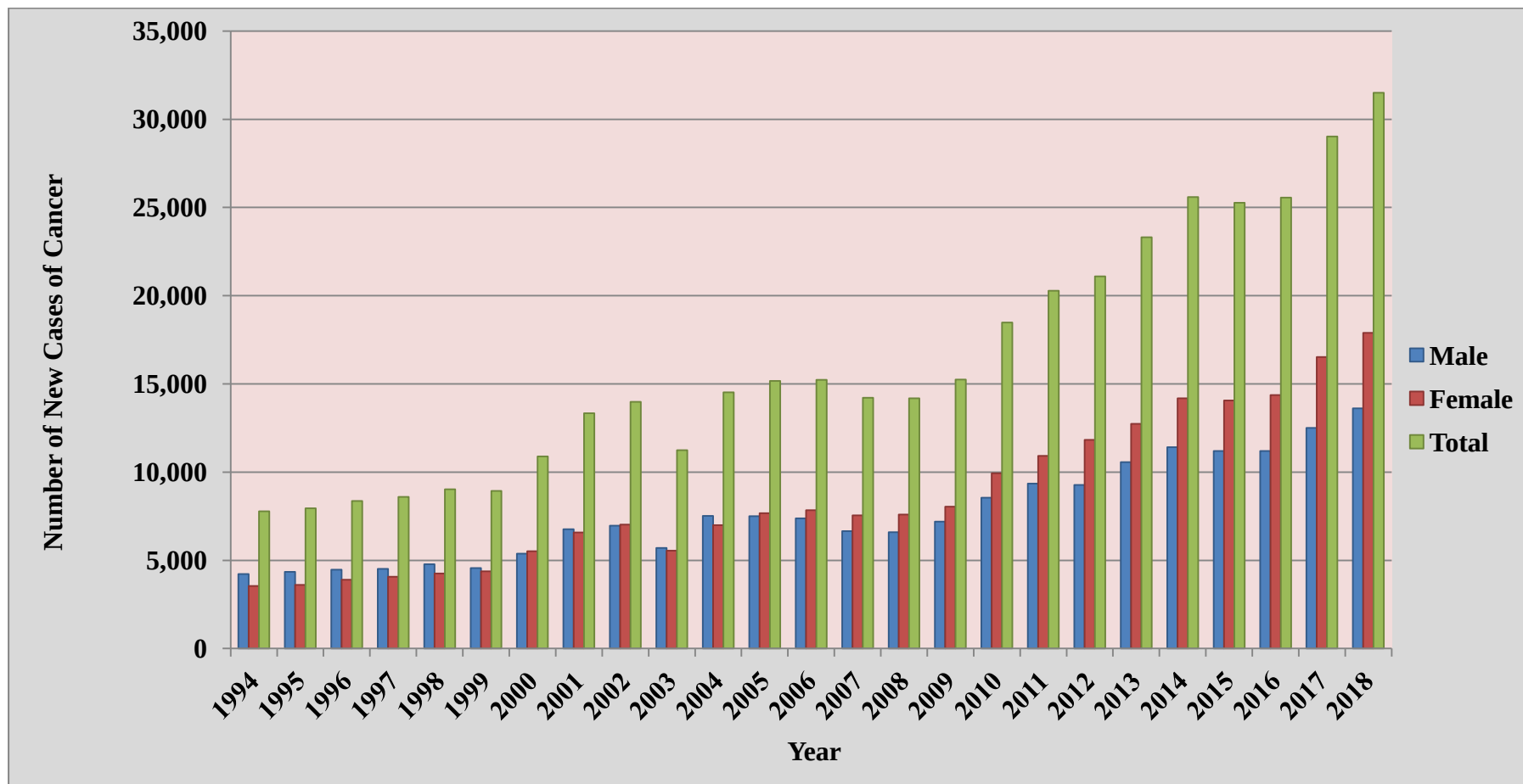
From 1995 till 2004 without Kurdistan Region (Erbil, Duhok, and Al Sulaimaniya governorates

Figure No.; (2) Percentage of new cases of cancer by gender, Iraq, 1976-2018



Note: From 1995 till 2004 without Kurdistan Region (Erbil, Duhok, and Sulaimaniya governorates).

Figure No.; (3) Number of new cases of cancer by gender, Iraq, 1994-2018

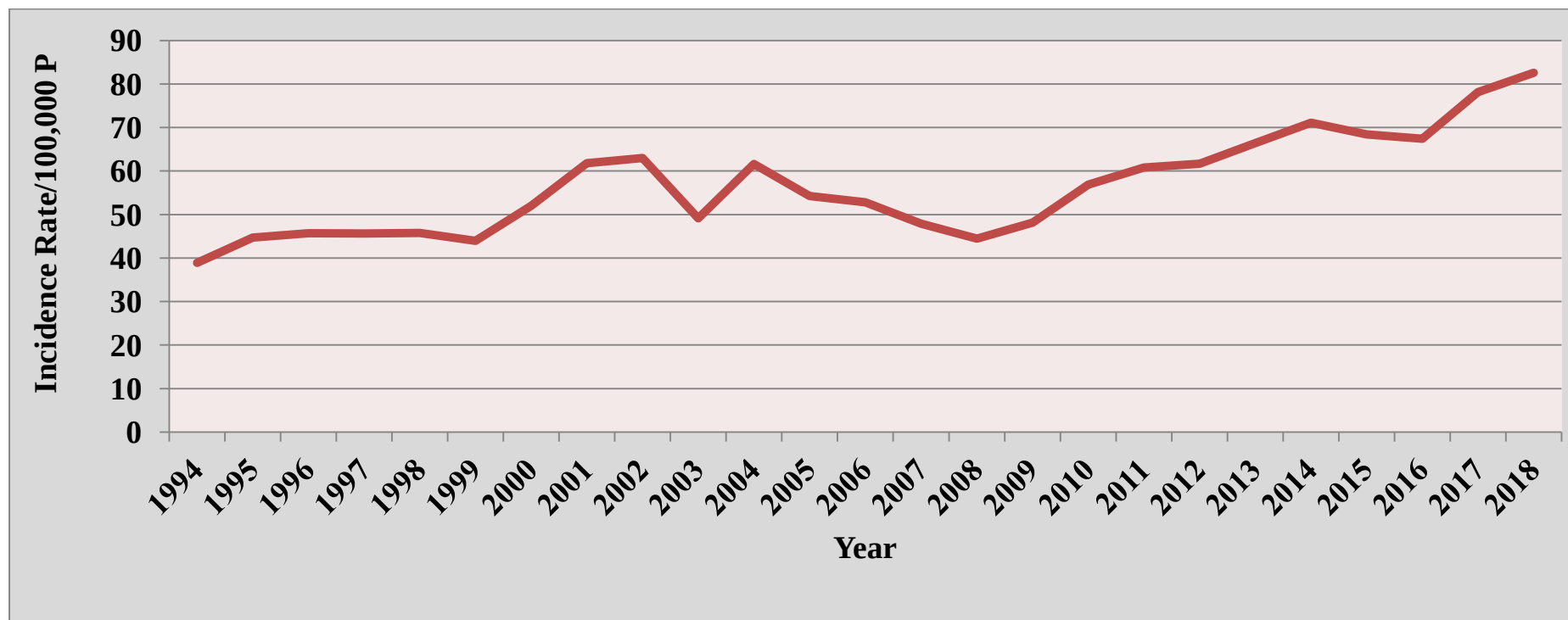


Note: From 1995 till 2004 without Kurdistan Region (Erbil, Duhok, and Sulaimaniya governorates).

3.1.2. Trend of incidence rate of new cases of cancer, Iraq, 1994-2018:

Figure No.; (4) shows the trend incidence rate of new cases of cancer in Iraq for the last 25 years, which shows that the trend increased with time.

Figure No.; (4) Trend of incidence rate of new cases of cancer in Iraq/100,000 populations, 1994 – 2018



Results

New Cases of Cancer in Iraq *2018*

3.2. New Cases of Cancer in Iraq, 2018:

3.2.1. Distribution and incidence rate of cancer, Iraq, 2018:

Table No.; (6) shows that the total number of cancer cases was 31,502 and the highest percentage was among the age group 70 years and more. The number of cancer cases was in females (No.17,890 – 56.79% - IR 94.84) more than in males (No.13,612 – 43.21% - IR 70.67).

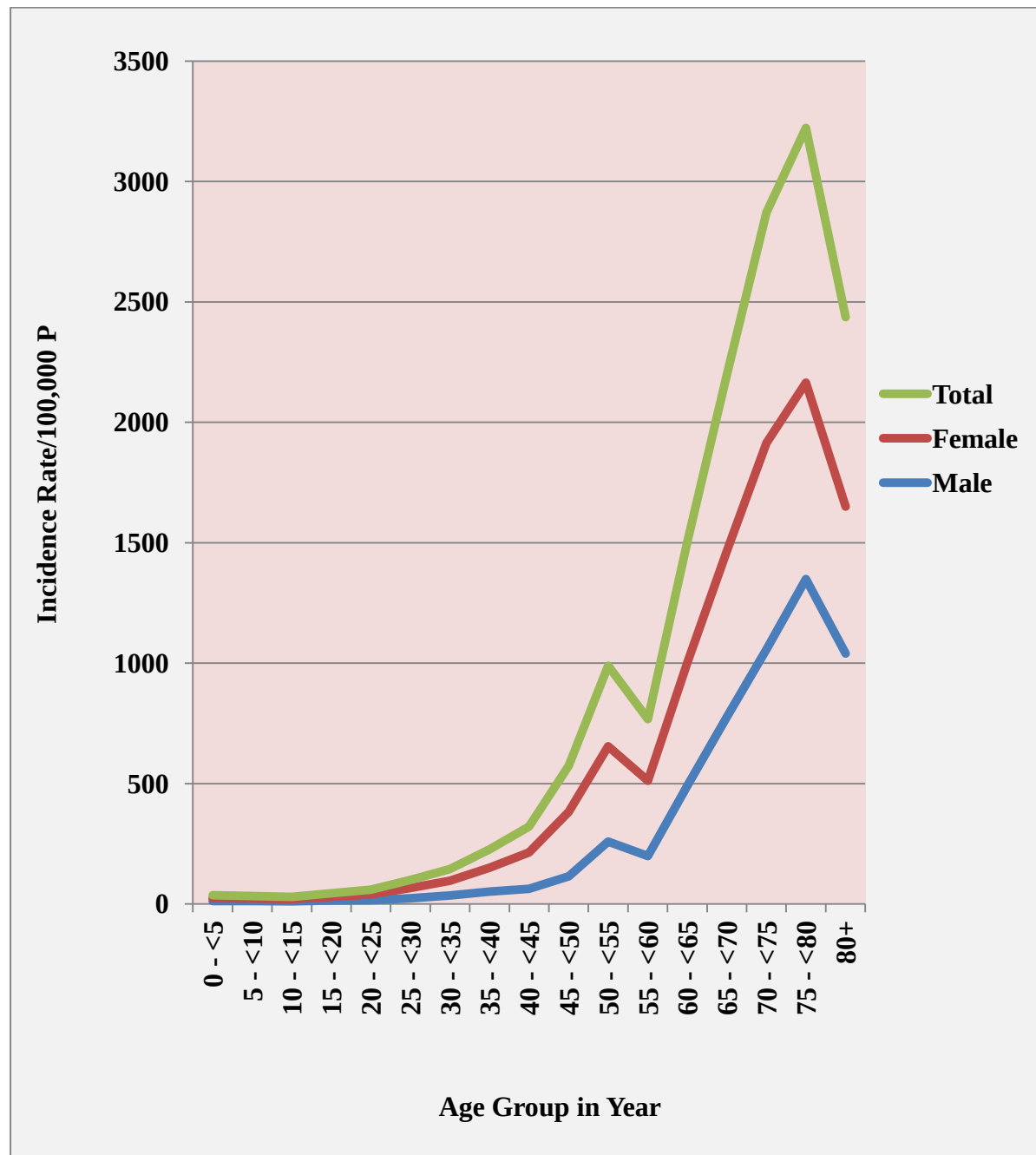
Table No.; (6) Distribution and incidence rate/100,000 populations of cancer by age group and gender, Iraq, 2018

Age Group	Male			Female			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
0 - <5	359	1.14	12.50	320	1.02	11.76	679	2.16	12.14
5 - <10	336	1.07	12.54	241	0.77	9.55	577	1.83	11.09
10 - <15	251	0.80	10.48	208	0.66	9.30	459	1.46	9.91
15 - <20	313	0.99	14.89	295	0.94	14.86	608	1.93	14.88
20 - <25	281	0.89	15.31	410	1.30	24.20	691	2.19	19.58
25 - <30	343	1.09	23.82	596	1.89	42.58	939	2.98	33.07
30 - <35	447	1.42	35.46	794	2.52	61.20	1241	3.94	48.51
35 - <40	549	1.74	51.09	1129	3.58	99.66	1678	5.33	76.02
40 - <45	637	2.02	62.86	1549	4.92	150.86	2186	6.94	107.15
45 - <50	862	2.74	115.11	2058	6.53	266.91	2920	9.27	192.12
50 - <55	1143	3.63	258.88	2176	6.91	395.76	3319	10.54	334.80
55 - <60	998	3.17	198.83	1641	5.21	312.41	2639	8.38	256.91
60 - <65	1695	5.38	490.33	1934	6.14	511.89	3629	11.52	501.59
65 - <70	1766	5.61	776.11	1632	5.18	688.45	3398	10.79	731.38
70 - <75	1570	4.98	1057.54	1280	4.06	856.86	2850	9.05	956.89
75 - <80	1055	3.35	1349.16	768	2.44	815.06	1823	5.79	1057.28
80+	1,007	3.20	1040.09	859	2.73	610.48	1866	5.92	785.59
Total	13612	43.21	70.67	17,890	56.79	94.84	31,502	100.00	82.62

3.2.2 Pattern of incidence rate of cancer by age group, Iraq, 2018:

Figure No.; (5) shows the pattern of incidence rate of cancer in Iraq by age group, which shows that the highest incidence rate increased with age (70 years and more) in both genders.

Figure No.; (5) Trend of incidence rate of cancer in Iraq /100,000 populations by age group and gender, 2018



3.2.3. Distribution and incidence rate of cancer by governorates stratified by gender, Iraq, 2018:

Table No.; (7) shows that the highest percentage of cancer in Iraq in both gender was in Baghdad [(female No.4,399 – 13.96%) (male No.3,008 – 9.55%)] and the lowest was in Al Muthana [(female No.383 – 1.22%) (male No. 282 – 0.90%)].

Table No.; (7) Distribution and incidence rate of cancer by governorates, Iraq, 2018

Governorates	Male			Female			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
Baghdad	3008	9.55	72.95	4399	13.96	109.89	7407	23.51	91.14
Al Basra	1022	3.24	69.95	1293	4.10	89.33	2315	7.35	79.59
Al Sulaimanyia	1018	3.23	94.11	1245	3.95	115.21	2263	7.18	104.66
Nineveh	997	3.16	52.33	1208	3.83	66.21	2205	7.00	59.12
Erbil	908	2.88	96.97	1038	3.30	113.03	1946	6.18	104.92
Thi Qar	737	2.34	70.08	804	2.55	77.05	1541	4.89	73.55
Babil	613	1.95	58.75	846	2.69	82.81	1459	4.63	70.65
Al Najaf	623	1.98	84.44	814	2.58	110.93	1437	4.56	97.65
Diyala	579	1.84	70.01	851	2.70	105.04	1430	4.54	87.34
Karballa	509	1.62	82.79	682	2.16	112.93	1191	3.78	97.72
Duhok	561	1.78	86.62	555	1.76	86.07	1116	3.54	86.34
Al Anbar	469	1.49	51.53	642	2.04	74.52	1111	3.53	62.71
Al Diwanyia	449	1.43	69.00	546	1.73	85.27	995	3.16	77.07
wasit	406	1.29	58.33	521	1.65	76.32	927	2.94	67.24
Kirkuk	362	1.15	45.00	499	1.58	62.88	861	2.73	53.88
Salaheldin	345	1.10	42.81	498	1.58	63.08	843	2.68	52.84
Misan	355	1.13	64.04	417	1.32	74.68	772	2.45	69.38
Al Muthana	282	0.90	68.91	383	1.22	94.53	665	2.11	81.66
Unknown	369	1.17	---	649	2.06	---	1018	3.23	---
Total	13612	43.21%	70.67	17890	56.79%	94.84	31502	100.00%	82.62

Figure No.; (6) shows that the highest incidence rate in Iraq was in Erbil [(female 113.03) (male 96.97) (Total 104.92)], and the lowest incidence rate was in Salaheldin [(female 63.08) (male 42.81) (total 52.84)].

Figure No.; (6) Incidence rate of cancer /100,000 populations by governorates, Iraq, 2018

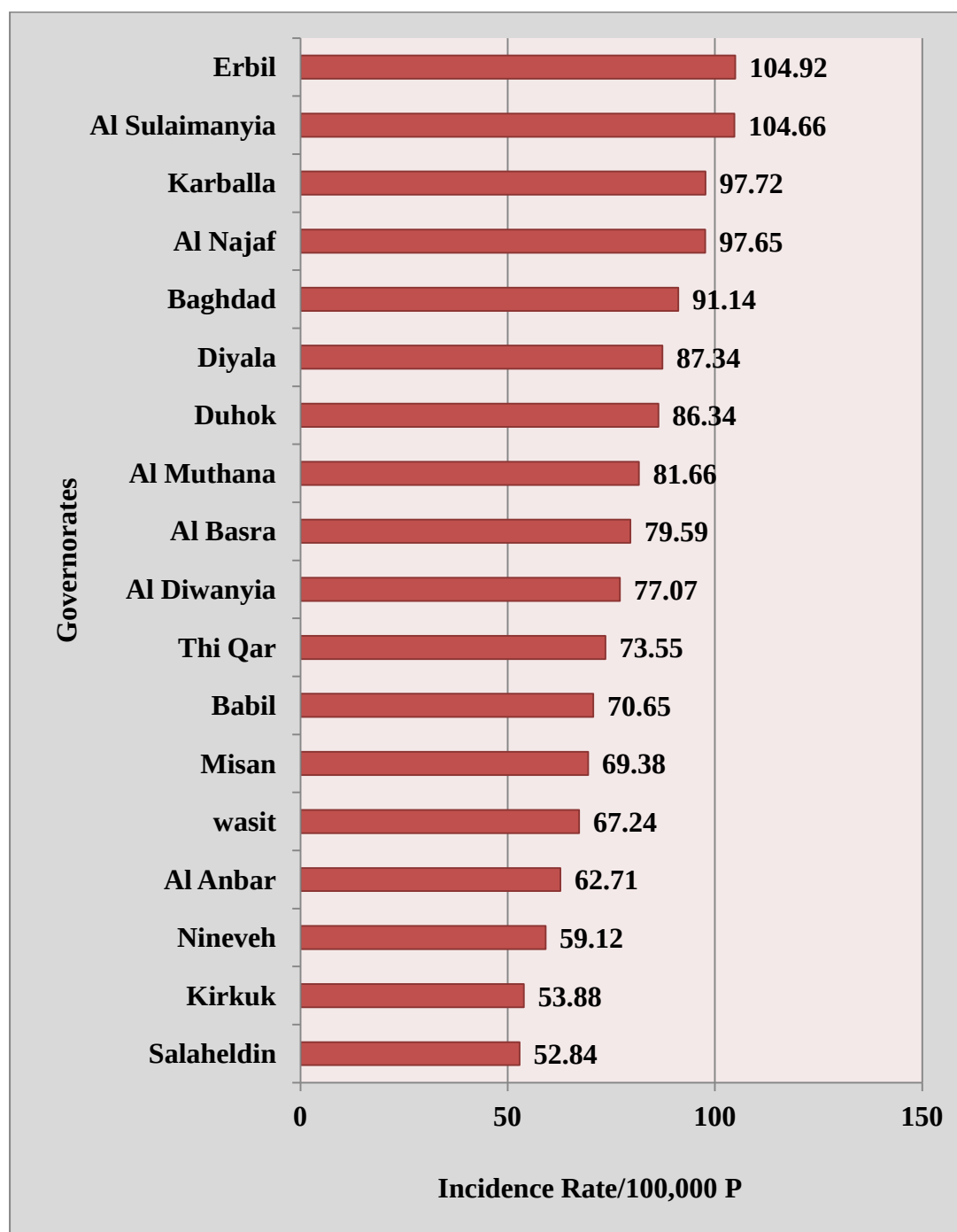


Figure No.; (7) shows that the highest incidence rate in male was in Erbil, and the lowest incidence rate was in Salaheldin.

Figure No.; (7) Incidence rate of cancer in males/100,000 male populations by governorates, Iraq, 2018

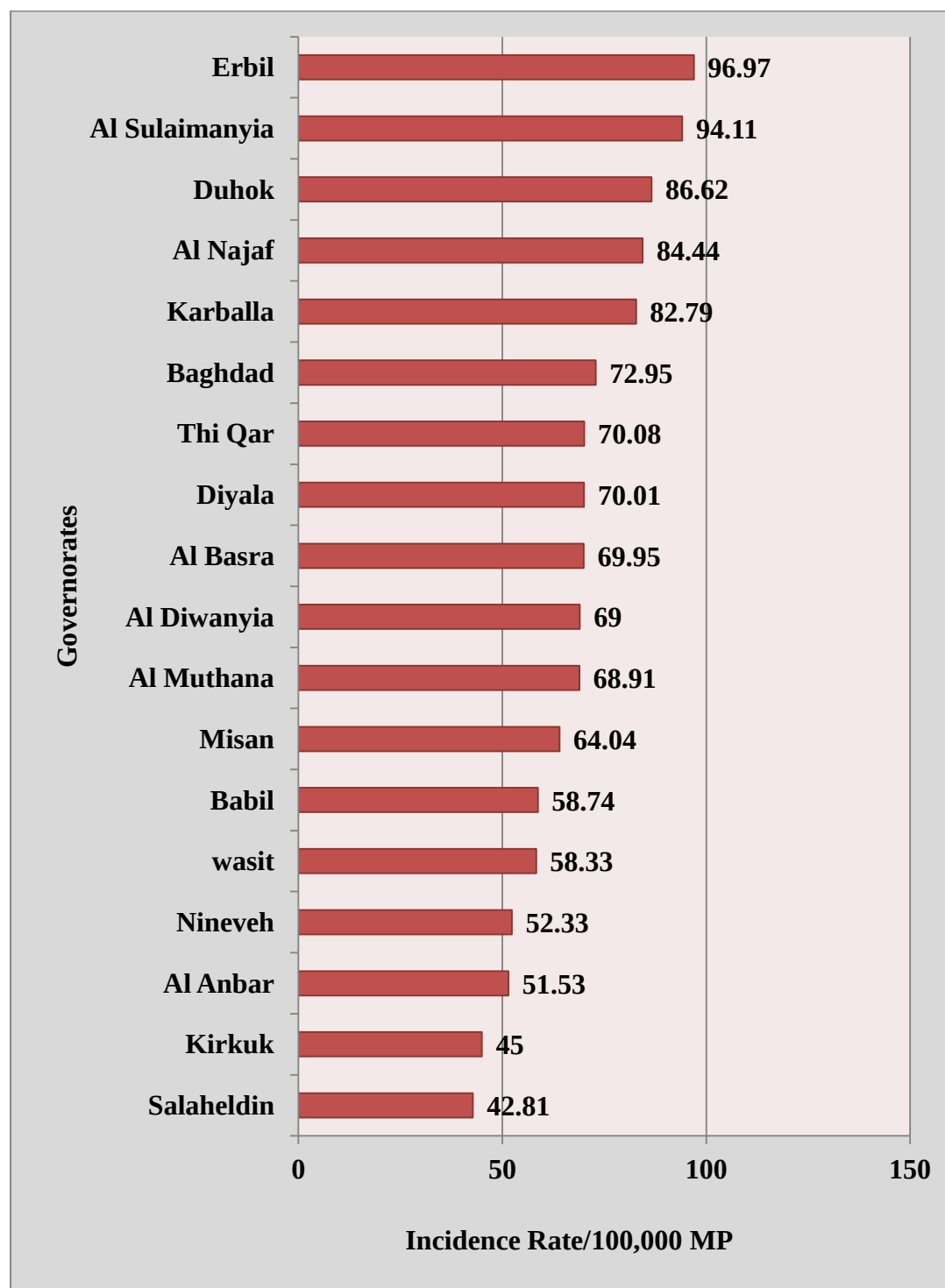
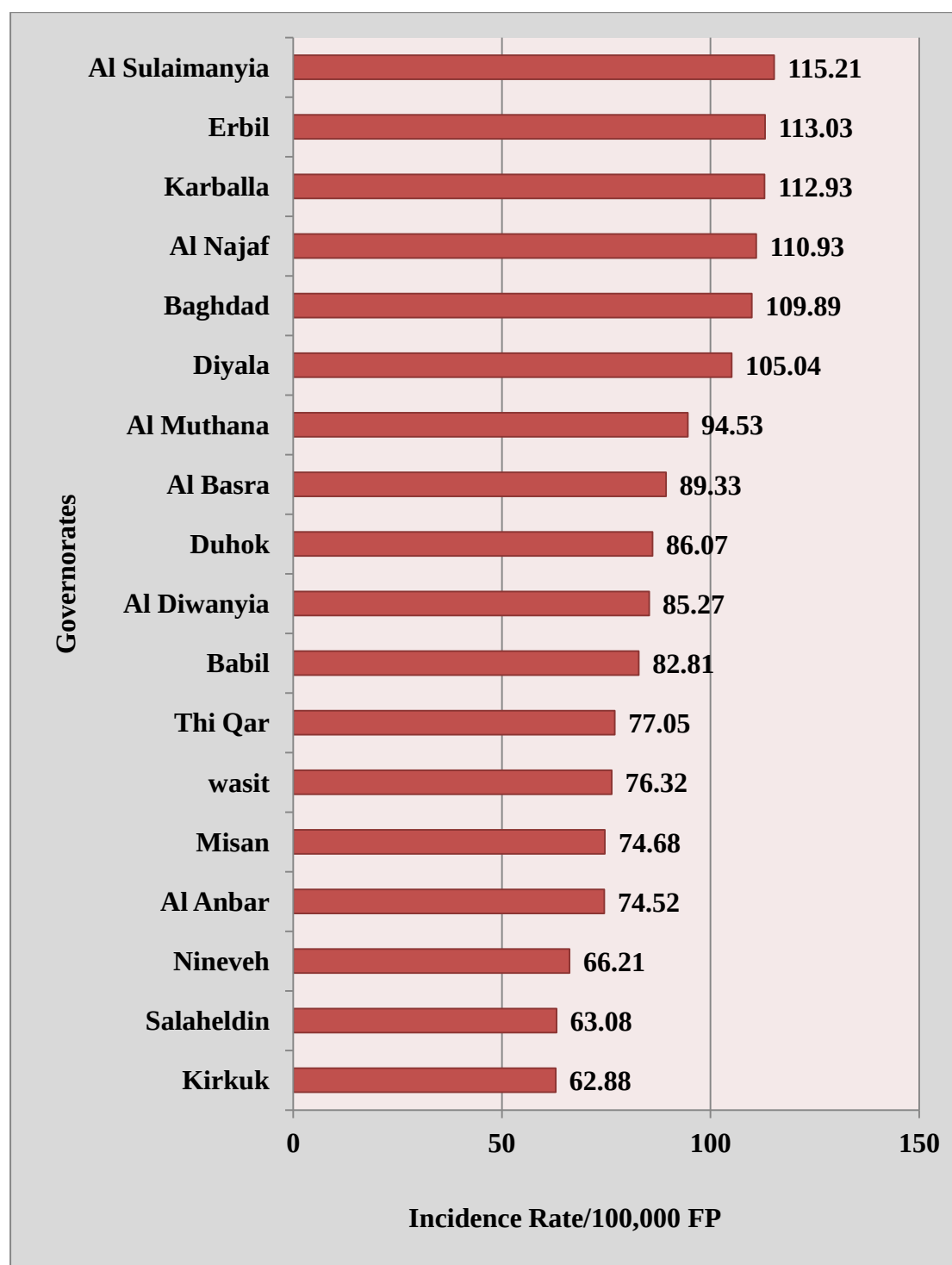


Figure No.; (8) shows that the highest incidence rate in female was in Al Sulaimanyia, and the lowest incidence rate was in Kirkuk.

Figure No.; (8) Incidence rate of cancer in females/100,000 female populations by governorates, Iraq, 2018



3.2.4. Distribution and incidence rate of cancer by site, ICD-O and gender, Iraq, 2018:

Table No.; (8) Distribution and incidence rate of cancer /100,000 populations by ICD-O, site and gender, Iraq, 2018

ICD-O / Site		Male			Female			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip		30	0.10	0.16	22	0.07	0.12	52	0.17	0.14
C01 / Tongue, Base		6	0.02	0.03	5	0.02	0.03	11	0.03	0.03
C02 / Tongue, other		48	0.15	0.25	50	0.16	0.27	98	0.31	0.26
C03 / Gum		1	0.00	0.01	4	0.01	0.02	5	0.02	0.01
C04 / Mouth - Floor		3	0.01	0.02	12	0.04	0.06	15	0.05	0.04
C05 / Mouth - Palate		5	0.02	0.03	8	0.03	0.04	13	0.04	0.03
C06 / Mouth - other		28	0.09	0.15	27	0.09	0.14	55	0.17	0.14
C07 / Parotid Gland		32	0.10	0.17	36	0.11	0.19	68	0.22	0.18
C08 / Salivary Gland , other		18	0.06	0.09	28	0.09	0.15	46	0.15	0.12
C09 / Tonsil		5	0.02	0.03	0	0.00	0.00	5	0.02	0.01
C10 / Or pharynx		10	0.03	0.05	4	0.01	0.02	14	0.04	0.04
C11 / Nasopharynx		109	0.35	0.57	33	0.10	0.17	142	0.45	0.37
C12 / Pyriform		4	0.01	0.02	2	0.01	0.01	6	0.02	0.02
C13 / Hypo pharynx		3	0.01	0.02	13	0.04	0.07	16	0.05	0.04
C14 / Pharynx		12	0.04	0.06	9	0.03	0.05	21	0.07	0.06
C15 / Esophagus		117	0.37	0.61	100	0.32	0.53	217	0.69	0.57
C16 / Stomach		524	1.66	2.72	455	1.44	2.41	979	3.11	2.57
C17 / Small Intestine		89	0.28	0.46	73	0.23	0.39	162	0.51	0.42
C18 / Colon		676	2.15	3.51	622	1.97	3.30	1298	4.12	3.40
C19 / Recto sigmoid Junction		43	0.14	0.22	30	0.10	0.16	73	0.23	0.19
C20 / Rectum		299	0.95	1.55	266	0.84	1.41	565	1.79	1.48
C21 / Anus & Anal Canal		21	0.07	0.11	15	0.05	0.08	36	0.11	0.09
C22 / Liver & Bile Ducts		343	1.09	1.78	320	1.02	1.70	663	2.10	1.74
C23 / Gallbladder		75	0.24	0.39	84	0.27	0.45	159	0.50	0.42
C24 / Biliary Tract , other		71	0.23	0.37	55	0.17	0.29	126	0.40	0.33
C25 / Pancreas		413	1.31	2.14	341	1.08	1.81	754	2.39	1.98
C26 / Other Digestive Organs		33	0.10	0.17	33	0.10	0.17	66	0.21	0.17
C30 / Nasal Cavity		17	0.05	0.09	8	0.03	0.04	25	0.08	0.07
C31 / Accessory Sinus		16	0.05	0.08	10	0.03	0.05	26	0.08	0.07
C32 / Larynx		357	1.13	1.85	96	0.30	0.51	453	1.44	1.19
C33 / Trachea		6	0.02	0.03	6	0.02	0.03	12	0.04	0.03
C34 / Bronchus & Lung		1830	5.81	9.50	749	2.38	3.97	2579	8.19	6.76
C37 / Thymus		24	0.08	0.12	22	0.07	0.12	46	0.15	0.12
C38 / Heart, Mediastinum, Pleura		33	0.10	0.17	26	0.08	0.14	59	0.19	0.15
C39 / Other Respiratory & Thoracic		7	0.02	0.04	2	0.01	0.01	9	0.03	0.02
C40 / Bone & Cartilage, Limbs		101	0.32	0.52	87	0.28	0.46	188	0.60	0.49
C41 / Bones & Cartilage, other		176	0.56	0.91	138	0.44	0.73	314	1.00	0.82
C42 / Reticuloendothelial & Hematopoietic System	Chronic Myeloproliferative Disorders	159	0.50	0.83	91	0.29	0.48	250	0.79	0.66
	Immunoproliferative Diseases	3	0.01	0.02	0	0.00	0.00	3	0.01	0.01
	Leukemia	1061	3.37	5.51	838	2.66	4.44	1899	6.03	4.98
	Myelodys Plastic Syndromes	82	0.26	0.43	49	0.16	0.26	131	0.42	0.34
	Plasma Cell Tumor	186	0.59	0.97	153	0.49	0.81	339	1.08	0.89

ICD-O / Site		Male			Female			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C44 / Skin, other		584	1.85	3.03	558	1.77	2.96	1142	3.63	3.00
C47 / Nervous, Peripheral & A.N.S.		8	0.03	0.04	8	0.03	0.04	16	0.05	0.04
C48 / Retro peritoneum & Peritoneum		28	0.09	0.15	28	0.09	0.15	56	0.18	0.15
C49 / Other connective/Soft Tissues		231	0.73	1.20	168	0.53	0.89	399	1.27	1.05
C50 / Breast		112	0.36	0.58	6094	19.34	32.31	6206	19.70	16.28
C51 / Vulva		0	0.00	0.00	24	0.08	0.13	24	0.08	0.13
C52 / Vagina		0	0.00	0.00	20	0.06	0.11	20	0.06	0.11
C53 / Cervix Uteri		0	0.00	0.00	244	0.77	1.29	244	0.77	1.29
C54 / Corpus Uteri		0	0.00	0.00	436	1.38	2.31	436	1.38	2.31
C55 / Uterus Unspecified		0	0.00	0.00	391	1.24	2.07	391	1.24	2.07
C56 / Ovary		0	0.00	0.00	719	2.28	3.81	719	2.28	3.81
C57/ Female genital- other		0	0.00	0.00	5	0.02	0.03	5	0.02	0.03
C58 / Placenta		0	0.00	0.00	142	0.45	0.75	142	0.45	0.75
C60/ Penis		1	0.00	0.01	0	0.00	0.00	1	0.00	0.01
C61 / Prostate		1023	3.25	5.31	0	0.00	0.00	1023	3.25	5.31
C62 / Testis		198	0.63	1.03	0	0.00	0.00	198	0.63	1.03
C63 / Male genital- other		8	0.03	0.04	0	0.00	0.00	8	0.03	0.04
C64 / Kidney		392	1.24	2.04	332	1.05	1.76	724	2.30	1.90
C65 / Pelvis		7	0.02	0.04	6	0.02	0.03	13	0.04	0.03
C66 / Ureter		4	0.01	0.02	2	0.01	0.01	6	0.02	0.02
C67 / Urinary Bladder		1173	3.72	6.09	369	1.17	1.96	1542	4.89	4.04
C68 / Urinary Organs, other		3	0.01	0.02	1	0.00	0.01	4	0.01	0.01
C69 / Eye & Adnexa		32	0.10	0.17	49	0.16	0.26	81	0.26	0.21
C70 / Meninges		19	0.06	0.10	14	0.04	0.07	33	0.10	0.09
C71 / Brain		756	2.40	3.92	655	2.08	3.47	1411	4.48	3.70
C72 / Nervous System, other		32	0.10	0.17	36	0.11	0.19	68	0.22	0.18
C73 / Thyroid Gland		316	1.00	1.64	1097	3.48	5.82	1413	4.49	3.71
C74 / Adrenal Gland		41	0.13	0.21	58	0.18	0.31	99	0.31	0.26
C75 / Endocrine Gland, other		17	0.05	0.09	25	0.08	0.13	42	0.13	0.11
C76 / Unspecified Site		76	0.24	0.39	92	0.29	0.49	168	0.53	0.44
C77 / Lymph Nodes	Hodgkin Lymphoma	404	1.28	2.10	364	1.16	1.93	768	2.44	2.01
	Non-Hodgkin Lymphoma	680	2.16	3.53	588	1.87	3.12	1268	4.03	3.33
C80 / Unknown Primary Site		391	1.24	2.03	443	1.41	2.35	834	2.65	2.19
Total		13612	43.21	70.67	17890	56.79	94.84	31502	100	82.62

Note:

* From C51 to C58 the incidence rate calculated from the female population.

* From C60 to C63 the incidence rate calculated from the male population.

3.2.5. Distribution of cancers by ICD-O, site, age group and gender, Iraq, 2018:

Table No.; (9 & 10) shows the distribution of cancers in Iraq by ICD-O, site, age group, and gender. It shows that the highest percentage in males was among the age group 75 - < 80 years and in females 70 - < 75 years.

Table No.; (9) Distribution of cancer in males by ICD-O, site and age group, Iraq, 2018

ICD-O / Site	0 - <5	5 - <10	10 - <15	15 - <20	20 - <25	25 - <30	30 - <35	35 - <40	40 - <45	45 - <50	50 - <55	55 - <60	60 - <65	65 - <70	70 - <75	75 - <80	80+	Total
C00 / Lip	1	0	1	1	1	0	0	1	1	1	3	3	5	2	1	5	4	30
C01 / Tongue, Base	0	0	0	0	0	0	0	0	0	1	0	0	1	2	1	1	0	6
C02 / Tongue, other	0	0	1	1	0	0	1	1	0	6	9	5	7	5	5	4	3	48
C03 / Gum	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
C04 / Mouth - Floor	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	3
C05 / Mouth - Palate	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	1	5
C06 / Mouth - other	1	0	0	0	0	0	0	0	2	1	2	4	3	6	4	2	3	28
C07 / Parotid Gland	0	1	0	0	0	2	3	2	2	2	2	1	3	6	6	1	1	32
C08 / Salivary Gland , other	0	0	0	0	0	0	2	2	1	4	0	2	4	1	1	0	1	18
C09 / Tonsil	0	0	0	0	0	0	1	0	0	0	0	0	2	0	2	0	0	5
C10 / Oropharynx	0	0	0	0	0	0	0	1	1	1	0	0	2	2	2	0	1	10
C11 / Nasopharynx	0	0	4	9	2	2	7	9	13	8	18	5	11	12	6	2	1	109
C12 / Pyriform	0	0	0	0	0	0	0	0	0	0	1	2	0	0	1	0	0	4
C13 / Hypopharynx	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	3
C14 / Pharynx	0	0	0	0	0	0	1	1	0	1	2	0	1	4	0	1	1	12
C15 / Oesophagus	0	0	0	1	0	1	2	7	6	12	8	12	13	12	21	11	11	117
C16 / Stomach	0	0	1	2	5	10	14	25	41	47	57	37	70	73	59	44	39	524
C17 / Small Intestine	0	0	0	0	5	1	2	2	12	8	14	11	11	9	7	4	3	89
C18 / Colon	0	0	0	0	14	15	27	37	39	58	80	60	100	79	79	36	52	676
C19 / Rectosigmoid Junction	0	0	0	0	0	0	1	2	5	1	3	5	9	3	9	2	3	43
C20 / Rectum	0	0	0	1	8	8	11	15	13	27	34	24	47	39	36	16	20	299

ICD-O / Site		0 - <5	5 - <10	10 - <15	15 - <20	20 - <25	25 - <30	30 - <35	35 - <40	40 - <45	45 - <50	50 - <55	55 - <60	60 - <65	65 - <70	70 - <75	75 - <80	80+	Total
C21 / Anus & Anal Canal		0	0	0	0	0	1	1	0	1	5	0	4	5	1	1	0	2	21
C22 / Liver & Bile Ducts		8	1	0	0	1	5	5	8	8	17	26	41	58	54	43	30	38	343
C23 / Gallbladder		0	0	0	0	1	1	2	5	3	3	9	4	17	10	6	10	4	75
C24 / Biliary Tract , other		0	0	0	0	0	0	5	0	3	5	7	7	8	13	12	7	4	71
C25 / Pancreas		0	0	0	0	0	1	7	8	13	37	42	51	63	75	48	35	33	413
C26 / Other Digestive Organs		0	0	0	0	1	1	3	1	4	4	4	0	8	4	1	1	1	33
C30 / Nasal Cavity		0	0	0	0	0	0	1	1	1	2	2	4	0	1	3	0	2	17
C31 / Accessory Sinus		0	0	0	0	0	0	0	0	0	2	2	3	2	5	2	0	0	16
C32 / Larynx		0	0	0	1	0	1	2	7	15	22	30	39	62	61	48	29	40	357
C33 / Trachea		0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	1	6
C34 / Bronchus & Lung		0	0	1	0	6	9	12	27	44	67	119	154	303	354	324	226	184	1830
C37 / Thymus		1	0	0	2	1	1	3	2	1	5	4	0	2	0	1	0	1	24
C38 / Heart, Mediastinum, Pleura		1	3	1	2	0	0	0	2	1	1	5	3	4	4	5	0	1	33
C39 / Other Respiratory & Thoracic		0	0	0	1	0	0	0	0	0	0	0	2	0	2	0	1	1	7
C40 / Bone & Cartilage, Limbs		3	11	18	21	9	2	5	4	7	2	3	3	6	5	1	1	0	101
C41 / Bones & Cartilage, other		8	17	21	26	9	7	6	2	6	8	14	7	10	8	15	8	4	176
C42 / Reticuloendothelial & Hematopoietic system	Chronic Myeloproliferative Disorders	1	0	0	6	8	13	14	18	23	20	14	6	15	8	7	4	2	159
	Immunoproliferative Diseases	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	3
	Leukemia	108	114	81	70	41	44	47	45	43	55	60	46	80	74	62	52	39	1061
	Myelodys Plastic Syndromes	1	0	0	7	5	2	3	3	0	0	6	5	9	8	12	10	11	82
	Plasma Cell Tumor	0	1	1	0	1	2	3	5	9	19	26	16	21	26	26	13	17	186
C44 / Skin, other		2	2	3	6	3	7	19	36	26	37	61	45	84	62	83	47	61	584
C47 / Nervous, Peripheral & A.N.S.		1	0	2	0	0	1	0	0	1	0	0	0	1	1	1	0	0	8
C48 / Retro peritoneum & Peritoneum		0	2	0	0	1	1	1	0	4	3	3	2	4	3	3	0	1	28
C49 / Other connective/Soft Tissues		12	12	14	24	13	18	9	16	8	22	11	12	18	19	9	9	5	231
C50 / Breast		0	0	0	0	0	2	5	3	13	20	15	10	16	10	8	5	5	112
C60/ Penis		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1

ICD-O / Site	0 - <5	5 - <10	10 - <15	15 - <20	20 - <25	25 - <30	30 - <35	35 - <40	40 - <45	45 - <50	50 - <55	55 - <60	60 - <65	65 - <70	70 - <75	75 - <80	80+	Total
C61 / Prostate	0	0	0	1	2	2	2	1	5	12	34	56	125	222	188	182	191	1023
C62 / Testis	15	3	2	9	25	25	29	25	26	15	6	2	8	3	1	3	1	198
C63 / Male Genital- other	0	0	0	2	1	1	0	0	0	1	2	0	0	1	0	0	0	8
C64 / Kidney	37	11	0	3	1	5	15	20	22	35	36	36	48	41	34	28	20	392
C65 / Pelvis	0	0	0	1	0	0	1	0	0	1	1	1	1	1	0	0	0	7
C66 / Ureter	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	4
C67 / Urinary Bladder	4	2	2	3	7	9	12	20	43	62	111	82	186	209	180	124	117	1173
C68 / Urinary Organs, other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3
C69 / Eye & Adnexa	14	0	2	1	1	1	0	0	0	2	1	2	1	1	3	2	1	32
C70 / Meninges	1	1	1	2	2	1	1	0	0	2	3	1	2	1	0	1	0	19
C71 / Brain	61	51	38	28	25	31	45	44	46	51	69	45	73	69	42	17	21	756
C72 / Nervous System, other	1	6	1	2	3	1	4	4	0	4	2	1	0	0	1	0	2	32
C73 / Thyroid Gland	1	2	2	8	6	30	34	50	37	33	29	20	25	18	12	5	4	316
C74 / Adrenal Gland	10	7	0	0	1	3	1	2	3	2	3	1	2	2	3	1	0	41
C75 / Endocrine Gland, other	0	4	0	0	0	2	2	0	1	3	1	3	1	0	0	0	0	17
C76 / Unspecified Site	13	7	9	2	2	4	3	2	2	5	6	1	8	6	2	1	3	76
C77 / Lymph Nodes																		
Hodgkin Lymphoma	14	37	22	35	35	28	32	26	26	22	35	20	19	19	21	8	5	404
Non-Hodgkin Lymphoma	33	37	21	31	25	32	35	43	35	51	68	51	58	51	63	25	21	680
C80 / Unknown Primary Site	7	4	2	4	10	8	6	13	20	26	39	41	50	55	50	37	19	391
Total	359	336	251	313	281	343	447	549	637	862	1143	998	1695	1766	1570	1055	1007	13612
Percentage	2.64	2.47	1.84	2.30	2.06	2.52	3.28	4.03	4.68	6.33	8.40	7.33	12.45	12.97	11.53	7.75	7.40	100.00%

Table No.; (10) Distribution of cancer in females by ICD-O, site and age group, Iraq, 2018

ICD-O / Site	0 - <5	5 - <10	10 - <15	15 - <20	20 - <25	25 - <30	30 - <35	35 - <40	40 - <45	45 - <50	50 - <55	55 - <60	60 - <65	65 - <70	70 - <75	75 - <80	80+	Total
C00 / Lip	1	2	0	1	0	1	1	1	0	1	1	3	0	3	3	0	4	22
C01 / Tongue, Base	0	0	0	0	1	0	0	0	0	1	1	0	2	0	0	0	0	5
C02 / Tongue, other	0	0	0	0	0	0	1	3	5	5	9	2	8	7	3	5	2	50
C03 / Gum	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	1	4
C04 / Mouth - Floor	0	0	0	0	0	0	1	0	1	3	1	1	2	0	1	2	0	12
C05 / Mouth - Palate	0	0	0	0	0	0	0	1	1	0	1	0	0	2	0	2	1	8
C06 / Mouth - other	1	2	1	0	0	1	1	0	5	2	2	2	1	1	2	3	3	27
C07 / Parotid Gland	0	1	0	2	2	3	0	2	1	5	5	2	3	6	3	0	1	36
C08 / Salivary Gland , other	0	0	0	0	0	1	2	2	2	2	3	2	3	5	2	3	1	28
C10 / Oropharynx	0	0	0	0	0	0	0	0	2	0	0	0	1	0	1	0	0	4
C11 / Nasopharynx	0	2	0	4	0	2	0	3	3	6	2	3	3	2	1	0	2	33
C12 / Pyriform	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
C13 / Hypopharynx	0	0	0	0	0	0	0	2	1	2	1	1	2	0	3	0	1	13
C14 / Pharynx	0	0	0	0	0	0	1	0	3	2	2	0	1	0	0	0	0	9
C15 / Oesophagus	0	0	0	0	0	1	5	7	4	6	6	9	7	19	8	12	16	100
C16 / Stomach	1	0	0	4	8	19	18	23	27	57	56	38	51	48	43	29	33	455
C17 / Small Intestine	0	0	0	0	2	3	1	3	6	7	5	9	12	9	8	5	3	73
C18 / Colon	1	0	1	1	15	23	25	20	39	63	65	58	85	82	60	44	40	622
C19 / Rectosigmoid Junction	0	0	0	0	1	2	0	0	2	5	4	7	4	0	2	3	0	30
C20 / Rectum	0	0	0	0	4	11	17	15	22	24	39	24	32	22	23	18	15	266
C21 / Anus & Anal Canal	0	0	0	0	0	0	1	2	1	0	1	1	4	2	2	0	1	15
C22 / Liver & Bile Ducts	14	2	0	2	3	3	6	5	14	19	26	25	41	48	38	29	45	320
C23 / Gallbladder	0	0	0	0	0	0	3	3	4	7	10	10	9	16	9	8	5	84
C24 / Biliary Tract , other	0	0	0	0	1	1	1	3	3	3	4	3	8	10	5	4	9	55
C25 / Pancreas	0	0	1	0	5	6	5	8	14	18	36	34	49	60	39	32	34	341
C26 / Other Digestive Organs	0	0	0	0	0	3	1	1	1	4	6	1	1	3	1	4	7	33
C30 / Nasal Cavity	0	0	1	1	0	0	0	1	0	0	0	0	1	1	1	2	0	8
C31 / Accessory Sinus	1	0	0	0	0	0	1	1	0	0	0	0	1	1	1	4	0	10

ICD-O / Site		0 - <5	5 - <10	10 - <15	15 - <20	20 - <25	25 - <30	30 - <35	35 - <40	40 - <45	45 - <50	50 - <55	55 - <60	60 - <65	65 - <70	70 - <75	75 - <80	80+	Total
C32 / Larynx		0	0	0	1	0	2	0	1	3	7	11	11	13	25	7	3	12	96
C33 / Trachea		0	0	0	0	0	1	0	1	0	0	2	0	1	0	0	0	1	6
C34 / Bronchus & Lung		0	0	0	0	3	7	10	9	23	45	62	60	113	127	117	83	90	749
C37 / Thymus		2	0	0	2	1	1	3	3	1	1	2	1	2	2	1	0	0	22
C38 / Heart, Mediastinum, Pleura		3	0	1	0	1	0	1	1	2	2	2	2	2	7	2	0	0	26
C39 / Other Respiratory & Thoracic		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
C40 / Bone & Cartilage, Limbs		0	5	16	13	7	6	8	5	3	3	2	0	4	0	7	2	6	87
C41 / Bones & Cartilage, other		6	11	15	9	8	4	6	3	9	8	10	3	11	12	8	4	11	138
C42 / Reticuloendothelial & Hematopoietic System	Myeloproliferative Disorders	0	0	0	2	3	3	2	4	8	9	4	9	12	13	10	6	6	91
	Leukemia	104	83	60	50	22	35	29	30	43	47	64	39	73	53	44	27	35	838
	Myelodys Plastic Syndromes	2	0	1	1	0	3	5	2	1	5	1	3	7	3	3	5	7	49
	Plasma Cell Tumor	0	1	0	1	1	0	0	3	9	15	21	14	33	25	10	11	9	153
C44 / Skin, other		1	2	4	5	3	19	14	30	27	36	63	42	63	68	84	42	55	558
C47 / Nervous, Peripheral & A.N.S.		1	0	0	0	1	2	0	0	1	2	0	0	0	0	1	0	0	8
C48 / Retro peritoneum & Peritoneum		1	0	0	1	3	1	3	3	0	3	2	1	2	3	2	1	2	28
C49 / Other Connective/Soft Tissues		9	8	7	9	9	10	10	10	13	17	17	15	16	6	9	0	3	168
C50 / Breast		0	0	1	4	39	100	260	511	766	1033	1014	724	618	429	302	154	139	6094
C51 / Vulva		0	0	0	0	1	0	0	1	0	1	3	1	3	4	6	1	3	24
C52 / Vagina		2	0	0	1	1	1	0	0	0	2	3	2	3	1	2	0	2	20
C53 / Cervix Uteri		0	0	0	0	4	2	5	18	18	40	39	40	28	23	14	6	7	244
C54 / Corpus Uteri		0	0	0	0	1	8	7	13	25	60	63	67	93	50	28	15	6	436
C55 / Uterus Unspecified		0	0	0	0	4	4	11	12	21	40	42	64	54	48	51	21	19	391
C56 / Ovary		1	3	10	30	33	29	37	41	59	84	90	61	81	75	33	27	25	719
C57/ Female genital- other		0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	0	5
C58 / Placenta		0	0	1	16	28	33	27	13	17	1	2	1	1	0	1	1	0	142
C64 / Kidney		26	12	1	0	3	7	9	18	24	27	37	29	60	26	29	10	14	332
C65 / Pelvis		0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	2	6
C66 / Ureter		0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	2

ICD-O / Site	0 - <5	5 - <10	10 - <15	15 - <20	20 - <25	25 - <30	30 - <35	35 - <40	40 - <45	45 - <50	50 - <55	55 - <60	60 - <65	65 - <70	70 - <75	75 - <80	80+	Total
C67 / Urinary Bladder	0	0	1	2	3	3	6	5	11	15	35	20	47	65	62	40	54	369
C68 / Urinary Organs, other	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
C69 / Eye & Adnexa	31	7	0	0	1	0	0	2	0	2	1	1	1	0	2	1	0	49
C70 / Meninges	0	0	0	0	0	1	1	2	2	4	3	0	1	0	0	0	0	14
C71 / Brain	42	43	30	24	29	27	30	46	43	56	52	37	56	59	29	25	27	655
C72 / Nervous System, other	4	3	4	5	4	3	2	0	1	3	2	3	0	1	0	0	1	36
C73 / Thyroid Gland	0	3	9	25	77	122	136	146	148	128	87	65	53	33	32	16	17	1097
C74 / Adrenal Gland	16	4	1	0	3	1	5	1	6	4	4	3	3	2	3	2	0	58
C75 / Endocrine Gland, other	0	2	3	2	1	5	0	2	4	3	1	1	0	1	0	0	0	25
C76 / Unspecified Site	10	7	3	4	6	5	3	5	7	5	6	6	6	3	9	1	6	92
C77 / Lymph	9	26	24	43	37	33	28	27	14	24	15	18	12	16	22	5	11	364
Nodes	25	10	11	24	22	27	31	32	46	39	71	24	67	63	41	27	28	588
Non-Hodgkin Lymphoma	6	2	1	6	6	11	14	21	32	45	54	38	61	40	48	22	36	443
C80 / Unknown Primary Site	6	2	1	6	6	11	14	21	32	45	54	38	61	40	48	22	36	443
Total	320	241	208	295	410	596	794	1129	1549	2058	2176	1641	1934	1632	1280	768	859	17890
Percentage	1.79	1.35	1.16	1.65	2.29	3.33	4.44	6.31	8.66	11.50	12.16	9.17	10.81	9.12	7.15	4.29	4.80	100.00

3.2.6. Distribution of cancer by ICD-O, site, governorates and gender, Iraq, 2018:

Table No.; (11 & 12) shows the distribution cancers in Iraq by ICD-O, site, governorates and gender.

Table No.; (11) Distribution of cancer in male by ICD-O, site and governorates, Iraq, 2018

ICD-O / Site	Al Anbar	Al Basra	Al Diwanyia	Al Muthana	Al Najaf	Al Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salaheldin	Thi Qar	wasit	Un.	Total
C00 / Lip	1	0	0	0	1	1	1	5	9	0	6	0	0	0	1	2	2	0	1	30
C01 / Tongue, Base	0	0	0	0	0	0	1	3	1	0	0	0	1	0	0	0	0	0	0	6
C02 / Tongue, other	1	9	1	0	1	4	3	8	0	1	3	1	2	4	3	2	4	0	1	48
C03 / Gum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
C04 / Mouth - Floor	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	3
C05 / Mouth - Palate	0	0	0	0	0	0	0	0	1	1	2	0	1	0	0	0	0	0	0	5
C06 / Mouth - other	0	3	0	0	0	4	0	12	1	1	3	1	0	0	0	2	0	0	1	28
C07 / Parotid Gland	1	0	2	2	1	2	1	8	2	0	2	1	1	1	6	1	1	0	0	32
C08 / Salivary Gland, other	0	0	0	1	2	0	1	3	3	0	0	2	0	0	3	1	1	0	1	18
C09 / Tonsil	1	0	0	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	5
C10 / Oropharynx	0	1	1	0	0	1	0	3	1	0	1	0	1	1	0	0	0	0	0	10
C11 / Nasopharynx	5	5	2	3	9	3	11	25	4	3	4	6	3	3	3	6	12	1	1	109
C12 / Pyriform	0	1	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	4
C13 / Hypopharynx	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3
C14 / Pharynx	0	3	0	0	0	0	1	4	0	0	0	2	0	0	1	0	0	1	0	12
C15 / Oesophagus	6	12	3	1	7	9	5	15	2	7	6	6	6	6	12	2	10	1	1	117
C16 / Stomach	28	28	9	5	30	45	19	113	31	20	45	18	13	7	55	17	17	8	16	524
C17 / Small Intestine	5	3	5	3	6	9	4	9	6	0	4	4	4	5	6	2	7	6	1	89
C18 / Colon	27	37	17	10	27	67	25	173	28	25	50	26	13	18	66	13	25	10	19	676
C19 / Rectosigmoid Junction	3	0	0	1	0	0	0	15	1	0	4	1	5	0	1	1	3	0	8	43
C20 / Rectum	8	25	8	3	10	27	8	70	19	9	24	5	14	5	23	8	16	9	8	299
C21 / Anus & Anal Canal	1	1	0	0	1	0	3	8	2	0	0	0	2	0	1	0	1	1	0	21
C22 / Liver & Bile Ducts	10	12	9	6	17	10	19	86	19	18	9	15	11	8	27	11	26	23	7	343
C23 / Gallbladder	14	4	2	2	2	9	7	11	2	3	2	1	1	3	7	0	0	4	1	75

ICD-O / Site		Al Anbar	Al Basra	Al Diwanya	Al Muthana	Al Najaf	Al Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karballa	Kirkuk	Misan	Nineveh	Salaheldin	Thi Qar	wasit	Un.	Total
C24 / Biliary Tract, other		4	8	9	3	5	2	2	13	1	1	8	0	0	2	2	2	4	1	4	71
C25 / Pancreas		18	35	5	4	22	21	24	116	11	20	22	14	6	17	25	10	26	11	6	413
C26 / Other Digestive Organs		0	0	0	3	7	0	0	8	1	5	0	0	0	0	4	0	2	0	3	33
C30 / Nasal Cavity		0	0	0	0	1	0	0	2	0	6	0	0	1	0	2	2	2	1	0	17
C31 / Accessory Sinus		1	5	0	0	2	0	0	1	0	1	1	0	0	0	2	1	1	1	0	16
C32 / Larynx		5	29	22	4	22	27	16	71	14	14	23	10	9	7	39	7	24	8	6	357
C33 / Trachea		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4	1	0	0	6
C34 / Bronchus & Lung		41	132	67	42	77	97	113	428	69	97	124	75	36	60	163	34	107	49	19	1830
C37 / Thymus		2	1	2	1	1	3	2	4	2	0	0	2	0	1	2	0	0	0	1	24
C38 / Heart, Mediastinum, Pleura		0	2	5	0	2	0	0	9	0	3	1	1	0	3	2	0	3	2	0	33
C39 / Other Respiratory & Thoracic		0	0	0	0	0	0	0	3	1	0	0	0	0	0	1	0	0	2	0	7
C40 / Bone & Cartilage, Limbs		2	8	3	5	5	5	9	24	9	0	2	6	2	1	2	5	9	2	2	101
C41 / Bones & Cartilage, other		2	11	10	9	8	9	15	26	12	9	2	8	1	6	13	4	19	11	1	176
C42 / Reticulo endothelial & Hematopoietic system	Chronic Myelo proliferative Disorders	0	26	0	0	0	110	1	6	2	3	3	1	1	2	0	0	3	0	1	159
	Immuno proliferative Diseases	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	3
	Leukemia	28	104	27	22	42	65	51	214	46	38	66	44	47	23	76	42	68	47	11	1061
	Myelodys Plastic Syndromes	2	15	1	0	1	26	1	20	2	1	3	1	1	2	3	1	1	0	1	82
	Plasma Cell Tumor	4	20	4	3	9	25	8	31	6	12	15	6	3	3	17	8	10	1	1	186
C44 / Skin, other		12	25	30	9	29	29	13	89	30	48	104	23	24	12	37	15	8	17	30	584
C47 / Nervous, Peripheral & A.N.S.		0	1	1	0	0	0	0	2	0	0	2	0	0	0	0	0	2	0	0	8

ICD-O / Site	Al Anbar	Al Basra	Al Diwanya	Al Muthana	Al Najaf	Al Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karballa	Kirkuk	Misan	Nineveh	Salaheldin	Thi Qar	wasit	Un.	Total
C48 / Retro peritoneum & Peritoneum	1	4	1	0	0	0	1	8	0	0	2	3	0	0	0	0	7	0	1	28
C49 / Other connective/Soft Tissues	12	19	4	5	12	12	4	66	5	9	17	7	13	2	9	5	14	6	10	231
C50 / Breast	0	11	2	4	1	5	3	29	12	2	9	1	2	3	10	3	6	2	7	112
C60/ Penis	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
C61 / Prostate	44	63	38	11	61	90	42	243	27	53	84	38	30	29	69	24	45	19	13	1023
C62 / Testis	7	15	9	3	7	14	6	43	7	11	16	8	4	4	15	7	8	4	10	198
C63 / Male genital- other	0	1	0	0	0	2	0	2	1	0	1	1	0	0	0	0	0	0	0	8
C64 / Kidney	7	32	13	5	14	21	19	82	18	11	28	15	10	14	25	10	26	16	26	392
C65 / Pelvis	1	2	0	0	0	0	0	0	1	0	2	0	0	0	0	0	1	0	0	7
C66 / Ureter	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	4
C67 / Urinary Bladder	34	98	48	25	63	76	66	225	35	36	76	62	32	37	63	29	77	47	44	1173
C68 / Urinary Organs, other	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	3
C69 / Eye & Adnexa	3	3	2	1	1	1	2	5	0	1	1	0	2	1	5	0	3	0	1	32
C70 / Meninges	0	1	1	0	0	0	0	5	2	1	2	1	0	0	2	1	1	0	2	19
C71 / Brain	21	62	14	38	36	49	40	193	39	37	28	33	17	18	47	16	37	23	8	756
C72 / Nervous System, other	0	6	0	4	3	2	0	1	2	0	2	1	1	2	1	2	4	0	1	32
C73 / Thyroid Gland	16	15	23	9	19	10	17	73	6	7	19	18	8	4	12	13	11	14	22	316
C74 / Adrenal Gland	0	6	2	2	3	0	2	5	6	0	0	1	0	2	3	1	5	3	0	41
C75 / Endocrine Gland, other	0	2	1	0	2	0	2	3	2	1	0	1	0	0	1	0	1	0	1	17
C76 / Unspecified Site	2	1	8	7	3	1	1	32	2	1	5	0	1	2	2	1	3	0	4	76
C77 / Lymph Nodes	14	28	8	10	12	67	15	50	20	19	15	13	11	9	39	9	35	16	14	404
Hodgkin Lymphoma	65	58	26	15	31	4	23	179	34	14	32	24	17	19	52	12	29	27	19	680
Non-Hodgkin Lymphoma	9	27	4	1	7	53	4	121	20	11	24	2	5	8	36	8	6	12	33	391
C80 / Unknown Primary Site	9	27	4	1	7	53	4	121	20	11	24	2	5	8	36	8	6	12	33	391
Total	469	1022	449	282	623	1018	613	3008	579	561	908	509	362	355	997	345	737	406	369	13612
Percentage	3.45	7.51	3.30	2.07	4.58	7.48	4.50	22.10	4.25	4.12	6.67	3.74	2.66	2.61	7.32	2.53	5.41	2.98	2.71	100

Table No.; (12) Distribution of cancer in female by ICD-O, site and governorates, Iraq, 2018

ICD-O / Site	Al Anbar	Al Basra	Al Diwanyia	Al Muthana	Al Najaf	Al Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karballa	Kirkuk	Misan	Nineveh	Salaheldin	Thi Qar	wasit	Un.	Total
C00 / Lip	0	0	0	1	0	0	1	4	4	0	5	0	0	0	1	0	2	2	2	22
C01 / Tongue, Base	1	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0	5
C02 / Tongue, other	2	8	2	0	3	1	2	8	2	1	1	1	3	1	3	0	7	2	3	50
C03 / Gum	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	4
C04 / Mouth - Floor	1	0	0	0	0	0	1	5	1	0	0	0	0	0	3	1	0	0	0	12
C05 / Mouth - Palate	0	2	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	2	8
C06 / Mouth - other	0	2	0	4	0	4	0	3	0	1	1	1	2	3	2	2	0	1	1	27
C07 / Parotid Gland	0	2	1	0	2	8	3	8	2	1	0	2	1	1	2	1	1	1	0	36
C08 / Salivary Gland , other	0	1	2	0	1	0	1	7	3	0	0	3	0	1	4	2	2	1	0	28
C10 / Oropharynx	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	4
C11 / Nasopharynx	3	1	0	0	2	1	0	10	2	1	3	1	1	1	1	2	3	1	0	33
C12 / Pyriform	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
C13 / Hypopharynx	0	3	4	0	0	0	0	3	0	1	0	0	0	0	0	2	0	0	0	13
C14 / Pharynx	0	0	0	0	0	0	0	2	1	0	0	0	2	0	1	2	0	0	1	9
C15 / Oesophagus	1	7	5	0	2	21	3	26	2	3	7	4	2	3	5	1	5	2	1	100
C16 / Stomach	30	24	10	12	19	33	25	103	39	17	18	16	9	17	31	21	16	8	7	455
C17 / Small Intestine	5	3	0	2	1	5	2	22	2	0	4	3	1	3	5	1	7	4	3	73
C18 / Colon	25	33	18	11	24	56	33	150	28	26	38	24	15	15	54	10	27	17	18	622
C19 / Rectosigmoid Junction	2	0	1	0	1	0	0	8	2	1	5	0	2	2	2	3	1	0	0	30
C20 / Rectum	14	23	6	3	13	19	9	63	9	15	22	3	10	7	18	10	11	8	3	266
C21 / Anus & Anal Canal	0	2	0	0	2	0	0	6	2	0	0	0	1	0	0	0	1	0	1	15
C22 / Liver & Bile Ducts	14	12	8	3	29	12	16	74	19	11	7	24	6	11	29	4	25	13	3	320
C23 / Gallbladder	2	4	4	0	1	9	4	19	7	4	5	4	1	4	5	2	2	5	2	84
C24 / Biliary Tract , other	0	7	6	1	2	2	0	16	3	1	5	0	1	0	5	2	1	2	1	55
C25 / Pancreas	15	26	5	9	18	25	30	78	15	8	18	9	9	10	23	8	24	6	5	341
C26 / Other Digestive Organs	1	0	2	3	2	0	0	11	1	3	0	0	0	2	2	2	3	1	0	33
C30 / Nasal Cavity	0	0	0	0	1	0	1	0	0	1	0	1	3	0	0	0	0	0	1	8
C31 / Accessory Sinus	0	1	1	0	0	0	0	0	0	1	2	0	0	0	2	2	1	0	0	10
C32 / Larynx	2	7	4	7	7	6	8	18	3	1	4	6	4	1	8	3	2	5	0	96
C33 / Trachea	0	0	0	0	0	0	1	0	1	0	0	1	0	0	2	0	0	1	0	6
C34 / Bronchus & Lung	16	39	33	19	38	26	56	178	31	16	36	61	19	21	45	14	60	32	9	749
C37 / Thymus	3	2	1	0	2	2	4	1	1	1	2	0	1	1	0	1	0	0	0	22
C38 / Heart, Mediastinum, Pleura	0	4	1	1	4	0	4	4	0	2	1	0	1	0	1	0	2	1	0	26

ICD-O / Site	Al Anbar	Al Basra	Al Diwanyia	Al Muthana	Al Najaf	Al Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karballa	Kirkuk	Misan	Nineveh	Salaheldin	Thi Qar	wasit	Un.	Total
C39 / Other Respiratory & Thoracic	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	2
C40 / Bone & Cartilage, Limbs	0	6	7	5	6	5	5	18	5	0	2	6	0	1	2	5	8	1	5	87
C41 / Bones & Cartilage, other	2	7	4	14	1	9	4	27	10	7	5	2	5	6	14	5	10	5	1	138
C42 / Chronic Myeloproliferative Disorders	2	17	0	1	0	54	0	6	2	2	3	0	2	0	0	0	2	0	0	91
C42 / Reticuloendothelial & Hematopoietic system	26	72	23	16	20	50	39	192	40	31	43	33	33	31	47	26	66	36	14	838
Leukemia	2	8	0	1	0	23	0	4	2	0	3	0	1	1	3	1	0	0	0	49
Myelodysplastic Syndromes	6	12	5	2	8	24	6	31	3	4	17	4	6	3	5	2	10	3	2	153
Plasma Cell Tumor	9	23	15	4	24	30	18	76	33	45	116	17	20	10	34	14	13	23	34	558
C44 / Skin, other	0	0	0	0	0	0	0	5	0	0	1	0	1	0	1	0	0	0	0	8
C47 / Nervous, Peripheral & A.N.S.	0	1	4	0	1	0	1	7	0	0	2	1	0	1	0	1	8	1	0	28
C48 / Retro peritoneum & Peritoneum	7	12	6	1	7	13	17	32	6	5	12	5	4	2	11	8	3	4	13	168
C49 / Other connective/Soft Tissues	205	501	149	69	258	408	248	1639	307	159	316	205	196	132	492	172	200	172	266	6094
C50 / Breast	1	5	0	0	0	1	1	6	2	0	3	1	1	0	1	1	1	0	0	24
C51 / Vulva	1	2	1	0	1	1	0	5	1	1	1	0	0	0	2	3	0	0	1	20
C52 / Vagina	9	24	5	4	18	16	15	61	3	6	14	15	4	5	15	6	11	4	9	244
C53 / Cervix Uteri	6	13	11	7	38	60	6	140	14	2	53	6	4	2	25	8	13	7	21	436
C54 / Corpus Uteri	8	42	26	15	6	2	48	80	18	18	3	13	36	12	26	9	13	15	1	391
C55 / Uterus Unspecified	24	53	19	17	46	54	38	202	24	19	40	28	15	15	47	15	23	18	22	719
C56 / Ovary	1	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	5
C57/ Female genital- other	5	15	0	0	1	12	3	62	7	2	12	4	1	4	3	6	4	1	0	142
C58 / Placenta	16	23	13	11	19	20	17	67	10	9	37	18	4	6	17	5	17	7	16	332
C64 / Kidney	0	0	0	1	0	0	1	0	1	1	1	0	0	0	0	0	1	0	0	6
C65 / Pelvis	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
C66 / Ureter	15	32	22	19	26	12	27	71	10	9	14	23	6	5	15	3	27	17	16	369
C67 / Urinary Bladder	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
C68 / Urinary Organs, other																				

ICD-O / Site		Al Anbar	Al Basra	Al Diwanyia	Al Muthana	Al Najaf	Al Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karballa	Kirkuk	Misan	Nineveh	Salaheldin	Thi Qar	wasit	Un.	Total
C69 / Eye & Adnexa		3	9	0	0	2	1	6	6	5	2	2	1	1	1	2	3	4	1	0	49
C70 / Meninges		1	0	0	2	1	0	0	2	0	0	1	0	0	0	0	0	3	1	3	14
C71 / Brain		21	51	19	28	29	43	38	152	39	24	18	42	10	21	45	13	35	17	10	655
C72 / Nervous System, other		0	2	1	10	1	4	0	5	4	1	0	1	1	0	2	2	1	0	1	36
C73 / Thyroid Gland		52	43	60	33	71	60	52	278	44	29	56	33	23	12	54	53	48	32	64	1097
C74 / Adrenal Gland		2	4	0	4	3	0	0	17	9	1	3	2	1	4	4	0	3	0	1	58
C75 / Endocrine Gland, other		0	3	1	0	1	1	1	7	0	2	2	0	0	0	3	2	1	1	0	25
C76 / Unspecified Site		1	1	6	16	1	2	1	48	1	0	3	1	1	1	0	4	2	2	1	92
C77 / Lymph Nodes	Hodgkin Lymphoma	10	18	14	9	13	48	18	49	14	17	24	20	8	7	18	6	41	15	15	364
	Non-Hodgkin Lymphoma	59	44	17	17	27	6	18	144	36	29	22	26	16	15	36	19	19	17	21	588
C80 / Unknown Primary Site		11	35	3	1	8	55	12	125	19	14	24	10	4	16	29	9	12	8	48	443
Total		642	1293	546	383	814	1245	846	4399	851	555	1038	682	499	417	1208	498	804	521	649	17890
Percentage		3.59	7.23	3.05	2.14	4.55	6.96	4.73	24.59	4.76	3.10	5.80	3.81	2.79	2.33	6.75	2.78	4.49	2.91	3.63	1000

Top Ten Cancers in Iraq 2018

Iraq
Populations Number : 38,124,182
Cancer Cases Number :31502
Incidence Rate: 82.62 / 100,000 Popula



3.3. Top ten cancers in Iraq, 2018:

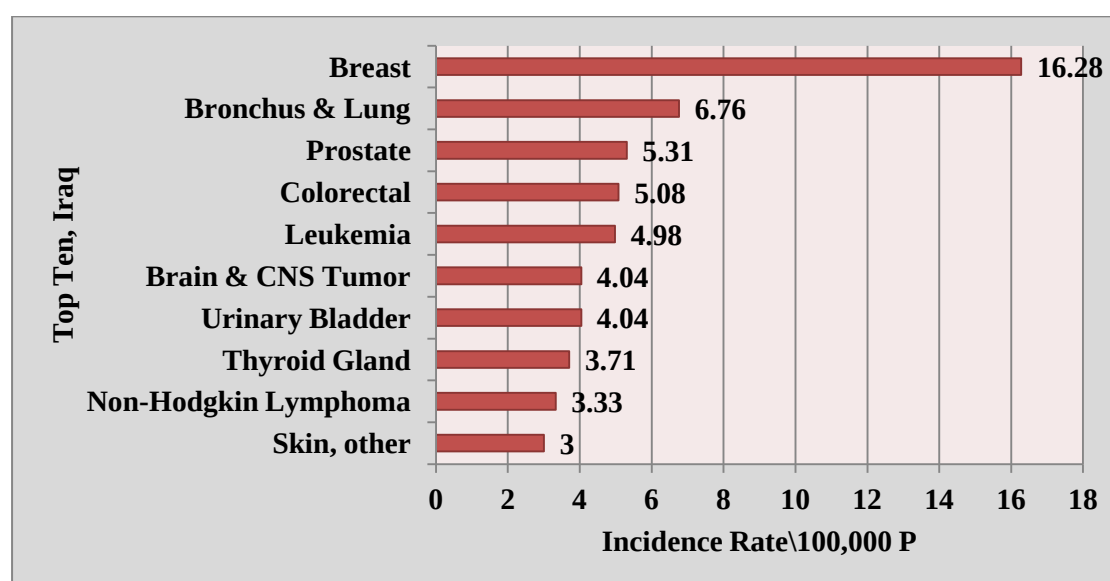
3.3.1. Distribution and the incidence rate of top ten cancers, Iraq, 2018:

Table No.; (13), Figure No.; (9) shows that the highest percentage and incidence rate of top ten cancers in Iraq was breast cancer.

Table No.; (13) Distribution of top ten cancers, Iraq, 2018

Top Ten All		No.	%
1	Breast	6206	19.70
2	Bronchus & Lung	2579	8.19
3	Colorectal	1936	6.15
4	Leukemia	1899	6.03
5	Urinary Bladder	1542	4.89
6	Brain & CNS Tumor	1541	4.89
7	Thyroid Gland	1413	4.49
8	Non-Hodgkin Lymphoma	1268	4.03
9	Skin, other	1142	3.63
10	Prostate	1023	3.25
Total Top Ten		20549	65.23
Total other Site		10,953	34.77
Total		31,502	100.00%

Figure No.; (9) Incidence rate of top ten cancer /100,000 populations, Iraq, 2018



Prostate incidence rate calculated from the male populations.

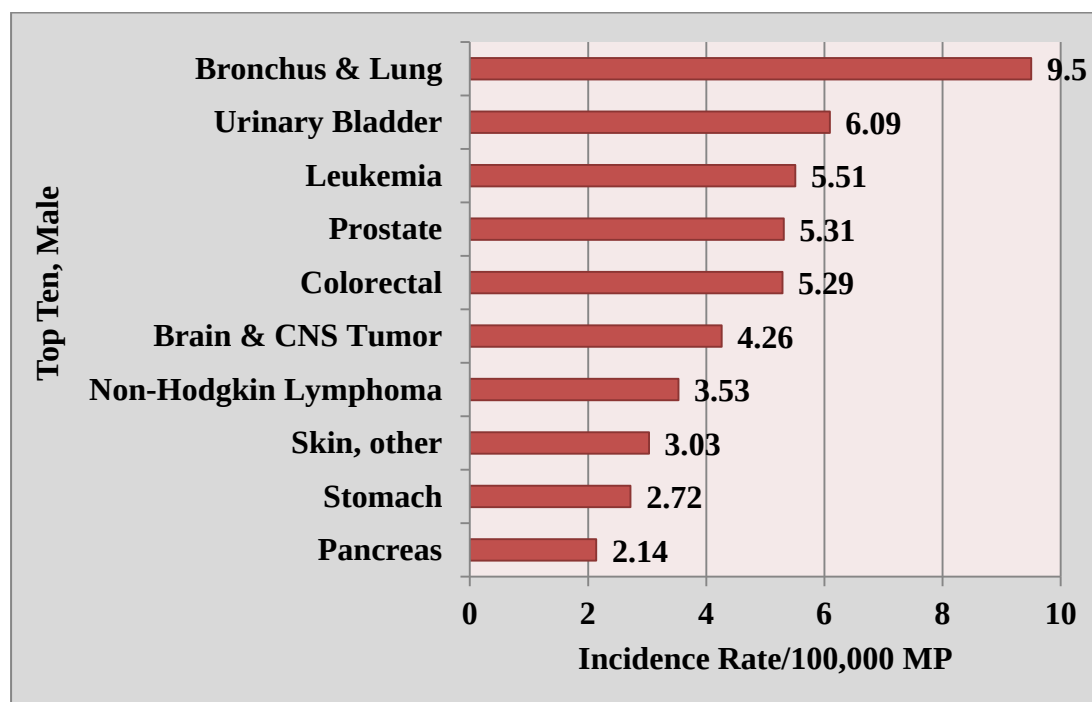
3.3.2. Distribution and the incidence rate of top ten cancers in males, Iraq, 2018:

Table No.; (14), Figure No.; (10) shows that the highest percentage and incidence rate of top ten cancer in males was bronchus & lung cancer and the lowest was pancreas cancer.

Table No.; (14) Distribution of top ten cancers in males, Iraq, 2018

Top Ten Male		No.	%
1	Bronchus & Lung	1830	13.44
2	Urinary Bladder	1173	8.62
3	Leukemia	1061	7.79
4	Prostate	1023	7.52
5	Colorectal	1018	7.48
6	Brain & CNS Tumor	820	6.02
7	Non-Hodgkin Lymphoma	680	5.00
8	Skin, other	584	4.29
9	Stomach	524	3.85
10	Pancreas	413	3.03
Total Top Ten		9126	67.04
Total other Site		4486	32.96
Total		13612	100.00%

Figure No.; (10) Incidence rate of top ten cancer in males /100,000 male populations, Iraq, 2018



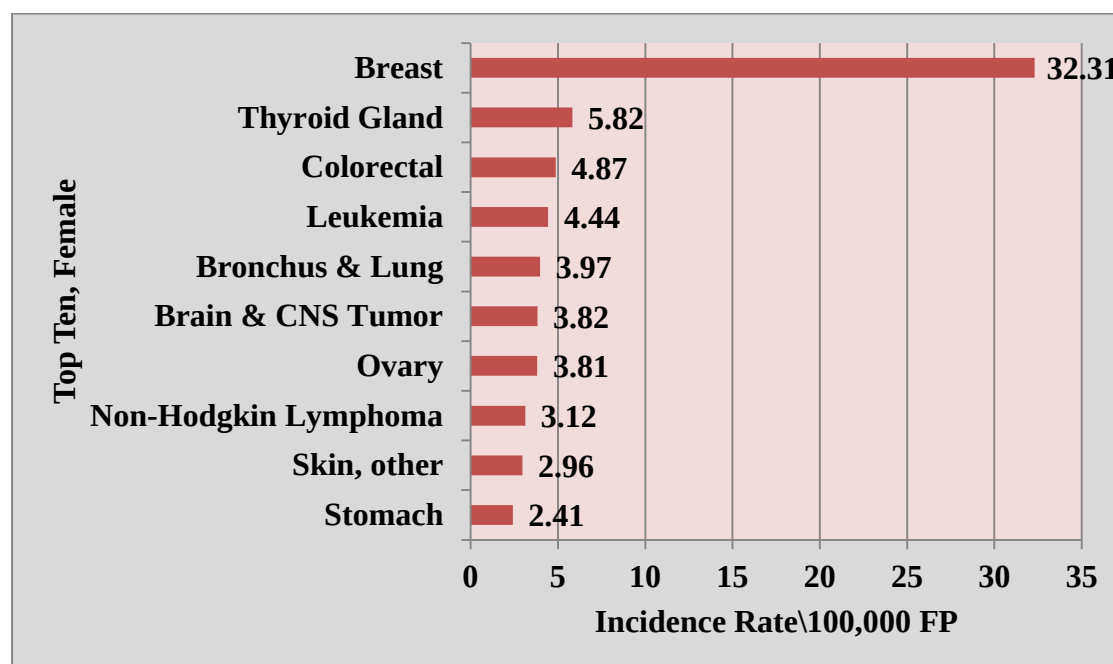
3.3.3. Distribution and the incidence rate of top ten cancers in females, Iraq, 2018:

Table No.; (15), Figure No.; (11) shows that the highest percentage and incidence rate of top ten cancer in females was breast cancer and the lowest was stomach cancer.

Table No.; (15) Distribution of top ten cancers in females, Iraq, 2018

Top Ten		No.	%
1	Breast	6094	34.06
2	Thyroid Gland	1097	6.13
3	Colorectal	918	5.13
4	Leukemia	838	4.68
5	Bronchus & Lung	749	4.19
6	Brain & CNS Tumor	721	4.03
7	Ovary	719	4.02
8	Non-Hodgkin Lymphoma	588	3.29
9	Skin, other	558	3.12
10	Stomach	455	2.54
Total Top Ten		12,737	71.20
Total other Site		5,153	28.80
Total		17,890	100.00%

Figure No.; (11) Incidence rate of top ten cancers in females /100,000 female populations, Iraq, 2018



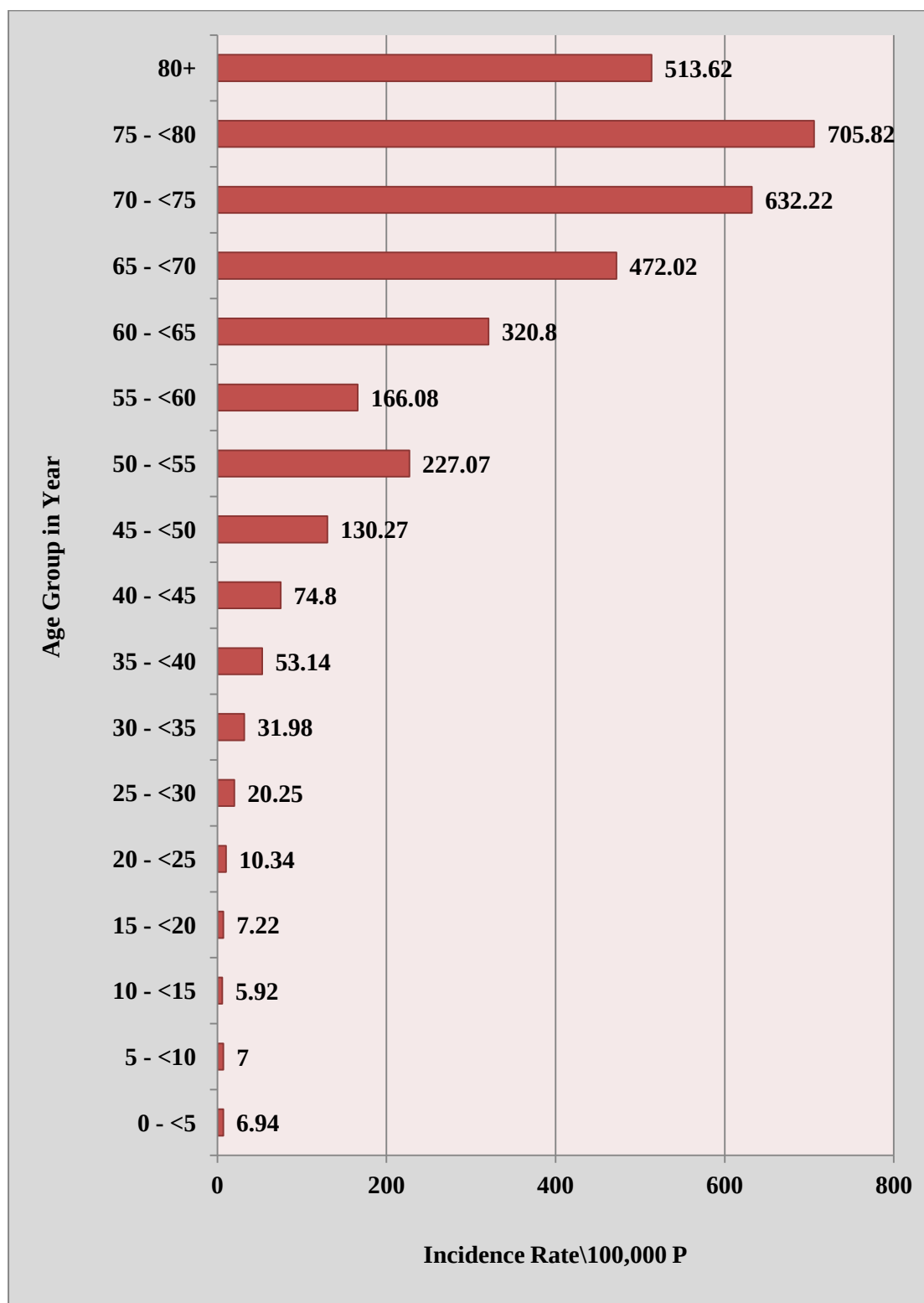
3.3.4. Distribution and the incidence rate of top ten cancers by site and age group, Iraq, 2018:

Table No.; (16), Figure No.; (12) shows that the distribution and the incidence rate of top ten cancers in Iraq by site and age group. It shows that the highest percentage was recorded among the age group 60 - < 65 year and the lowest among the age group 10 - < 15 year. While the highest incidence rate was recorded among the age group 75 - < 80 year and the lowest recorded among 10 - < 15 year.

Table No.; (16) Distribution of top ten cancers by site and age group, Iraq, 2018

Top Ten	0 - <5	5 - <10	10 - <15	15 - <20	20 - <25	25 - <30	30 - <35	35 - <40	40 - <45	45 - <50	50 - <55	55 - <60	60 - <65	65 - <70	70 - <75	75 - <80	80+	Total
Breast	0	0	1	4	39	102	265	514	779	1053	1029	734	634	439	310	159	144	6206
Bronchus & Lung	0	0	1	1	9	16	22	36	67	112	181	214	416	481	441	309	273	2579
Colorectal	1	0	1	2	42	59	81	89	120	178	225	178	277	225	209	119	130	1936
Leukemia	212	197	141	120	63	79	76	75	86	102	124	85	153	127	106	79	74	1899
Urinary Bladder	4	2	3	5	10	12	18	25	54	77	146	102	233	274	242	164	171	1542
Brain & CNS Tumor	109	109	77	63	64	68	85	96	96	122	133	90	133	130	72	43	51	1541
Thyroid Gland	1	5	11	33	83	152	170	196	185	161	116	85	78	51	44	21	21	1413
Non-Hodgkin Lymphoma	58	47	32	55	47	59	66	75	81	90	139	75	125	114	104	52	49	1268
Skin, other	3	4	7	11	6	26	33	66	53	73	124	87	147	130	167	89	116	1142
Prostate	0	0	0	1	2	2	2	1	5	12	34	56	125	222	188	182	191	1023
Total	388	364	274	295	365	575	818	1173	1526	1980	2251	1706	2321	2193	1883	1217	1220	20549
Percentage	1.89	1.77	1.33	1.44	1.78	2.80	3.98	5.71	7.43	9.64	10.95	8.30	11.29	10.67	9.16	5.92	5.94	100.00%

Figure No.; (12) Incidence rate of top ten cancer /100, 000 populations by age group, Iraq, 2018



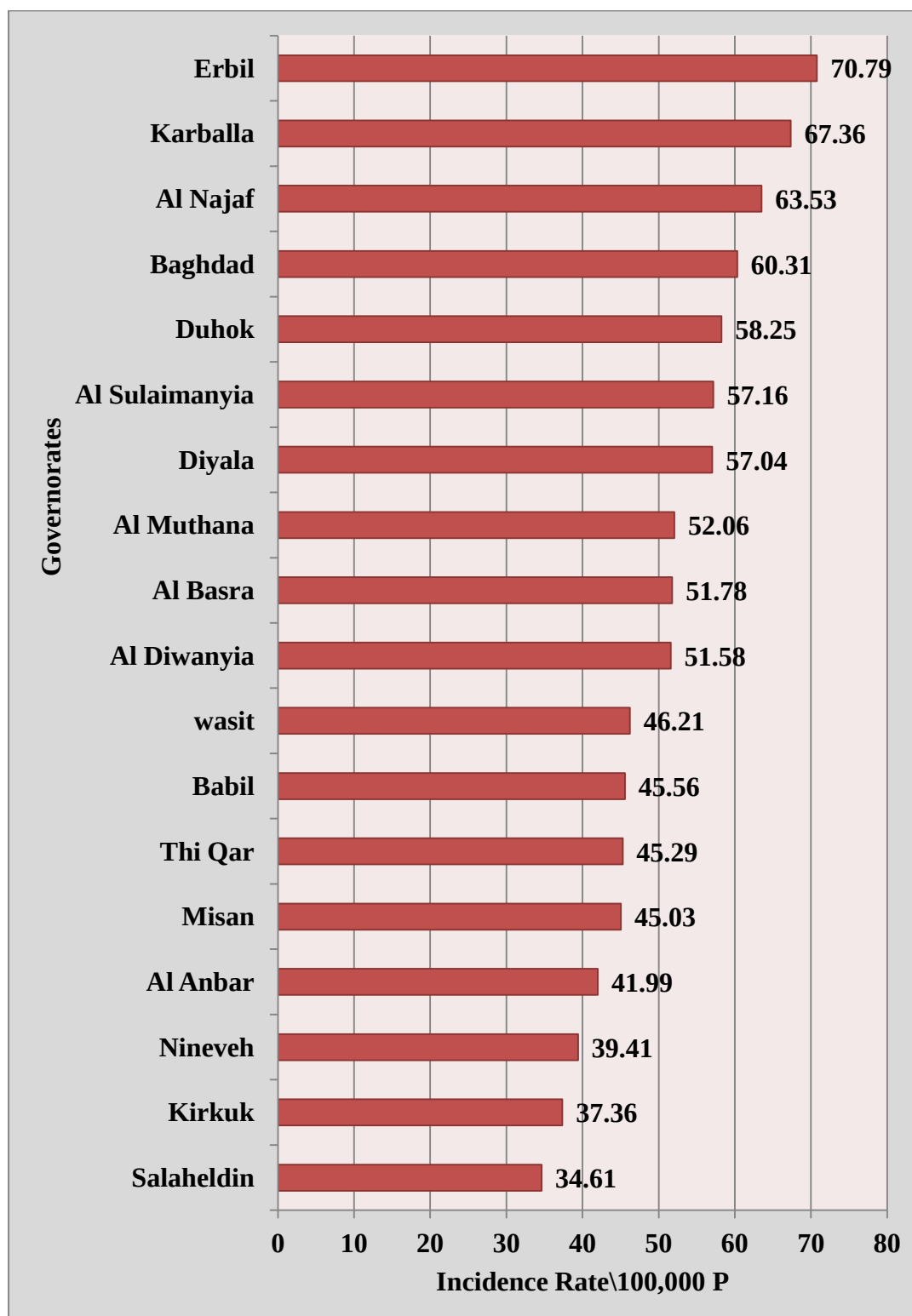
3.3.5. Distribution and the incidence rate of top ten cancers by site and governorates, Iraq, 2018:

Table No.; (17), Figure No.; (13) shows the distribution and the incidence rate of top ten cancers in Iraq by site, and governorates. It shows that the highest percentage was recorded in Baghdad and the lowest in Al Muthana. The highest incidence rate of cancer was recorded in Erbil and the lowest recorded in Salaheldin.

Table No.; (17) Distribution of top ten cancers by site and governorates, Iraq, 2018

Top Ten	Al Anbar	Al Basra	Al Diwanyia	Al Muthana	Al Najaf	Al Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karballa	Kirkuk	Misan	Nineveh	Salah eldin	Thi Qar	wasit	Un.	Total
Breast	205	512	151	73	259	413	251	1668	319	161	325	206	198	135	502	175	206	174	273	6206
Bronchus & Lung	57	171	100	61	115	123	169	607	100	113	160	136	55	81	208	48	167	81	27	2579
Colorectal	79	118	50	28	75	169	75	479	87	76	143	59	59	47	164	45	83	44	56	1936
Leukemia	54	176	50	38	62	115	90	406	86	69	109	77	80	54	123	68	134	83	25	1899
Urinary Bladder	49	130	70	44	89	88	93	296	45	45	90	85	38	42	78	32	104	64	60	1542
Brain & CNS Tumor	43	127	36	82	73	99	80	363	87	64	53	79	29	41	101	34	82	42	26	1541
Thyroid Gland	68	58	83	42	90	70	69	351	50	36	75	51	31	16	66	66	59	46	86	1413
Non-Hodgkin Lymphoma	124	102	43	32	58	10	41	323	70	43	54	50	33	34	88	31	48	44	40	1268
Skin, other	21	48	45	13	53	59	31	165	63	93	220	40	44	22	71	29	21	40	64	1142
Prostate	44	63	38	11	61	90	42	243	27	53	84	38	30	29	69	24	45	19	13	1023
Total	744	1505	666	424	935	1236	941	4901	934	753	1313	821	597	501	1470	552	949	637	670	20549
Percentage	3.62	7.32	3.24	2.06	4.55	6.01	4.58	23.85	4.55	3.66	6.39	4.00	2.91	2.44	7.15	2.69	4.62	3.10	3.26	100.00

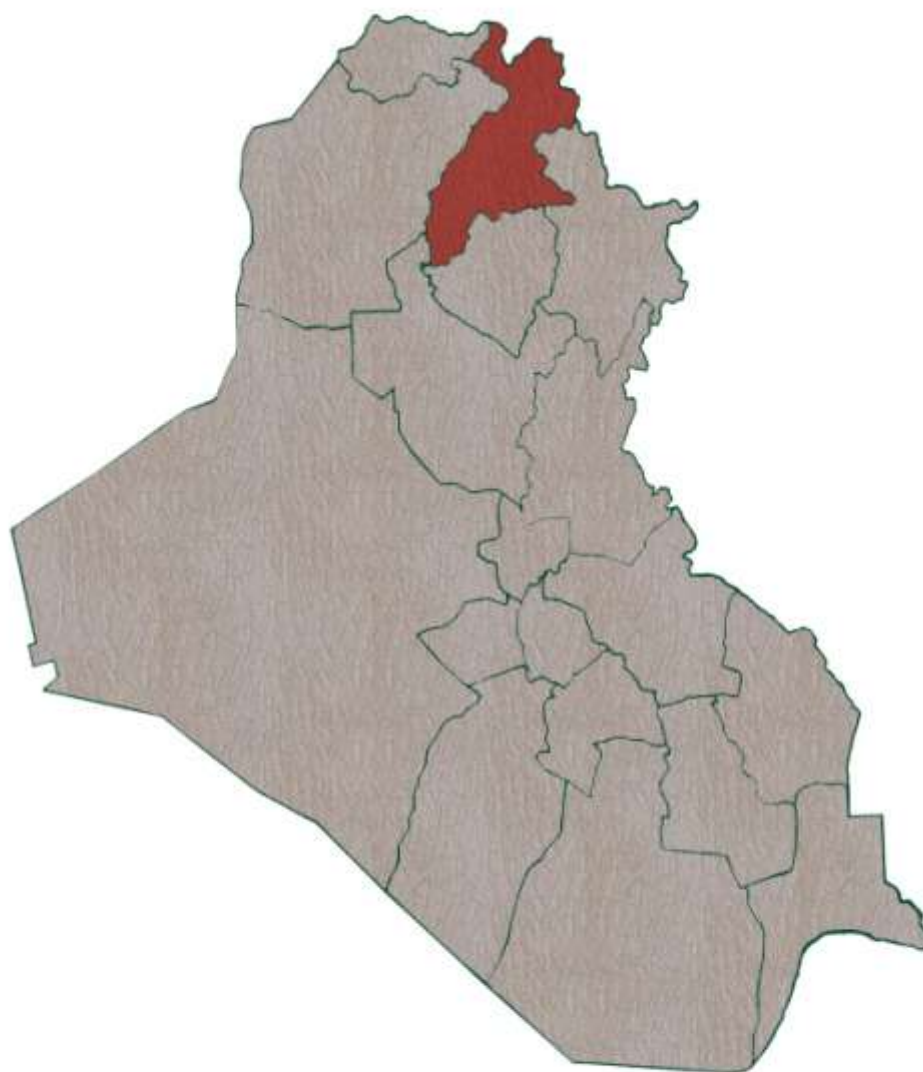
Figure No.; (13) Incidence rate of top ten cancer /100, 000 populations by governorates, Iraq, 2018



Results

Distribution & Incidence Rate of Top Ten Cancers by Governorates

Erbil
Populations Number : 1,854,778
Cancer Cases Number :1946
Incidence Rate: 104.92 / 100,000 Erbil Populations



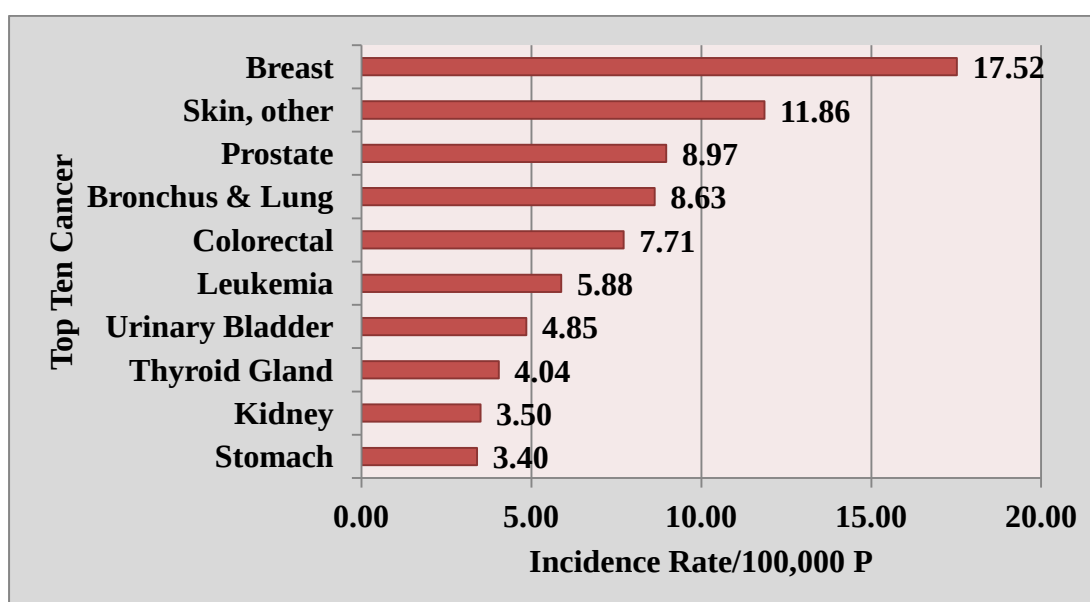
3.4. Distribution and incidence rate of top ten cancers for each governorate stratified by gender and districts

3.4.1. Erbil governorate

Table No.; (18) Distribution of top ten cancers in Erbil, Iraq, 2018

Top Ten All		No.	%
1	Breast	325	16.70
2	Skin, other	220	11.31
3	Bronchus & Lung	160	8.22
4	Colorectal	143	7.35
5	Leukemia	109	5.60
6	Urinary Bladder	90	4.62
7	Prostate	84	4.32
8	Thyroid Gland	75	3.85
9	Kidney	65	3.34
10	Stomach	63	3.24
Total Top Ten		1,334	68.55
Total other Site		612	31.45
Total		1,946	100.00%

Figure No.; (14) Incidence rate of top ten cancers in Erbil /100,000 Erbil populations, Iraq, 2018



Prostate incidence rate calculated from the male populations.

Table No.; (19) Distribution of top ten cancers in males, Erbil, Iraq, 2018

Top Ten Male		No.	%
1	Bronchus & Lung	124	13.66
2	Skin, other	104	11.45
3	Prostate	84	9.25
4	Colorectal	78	8.59
5	Urinary Bladder	76	8.37
6	Leukemia	66	7.27
7	Stomach	45	4.96
8	Non-Hodgkin Lymphoma	32	3.52
9	Brain & CNS Tumor	32	3.52
10	Kidney	28	3.08
Total Top Ten		669	73.68
Total other Site		239	26.32
Total		908	100.00%

Figure No.; (15) Incidence rate of top ten cancers in males /100,000 male populations, Erbil, Iraq, 2018

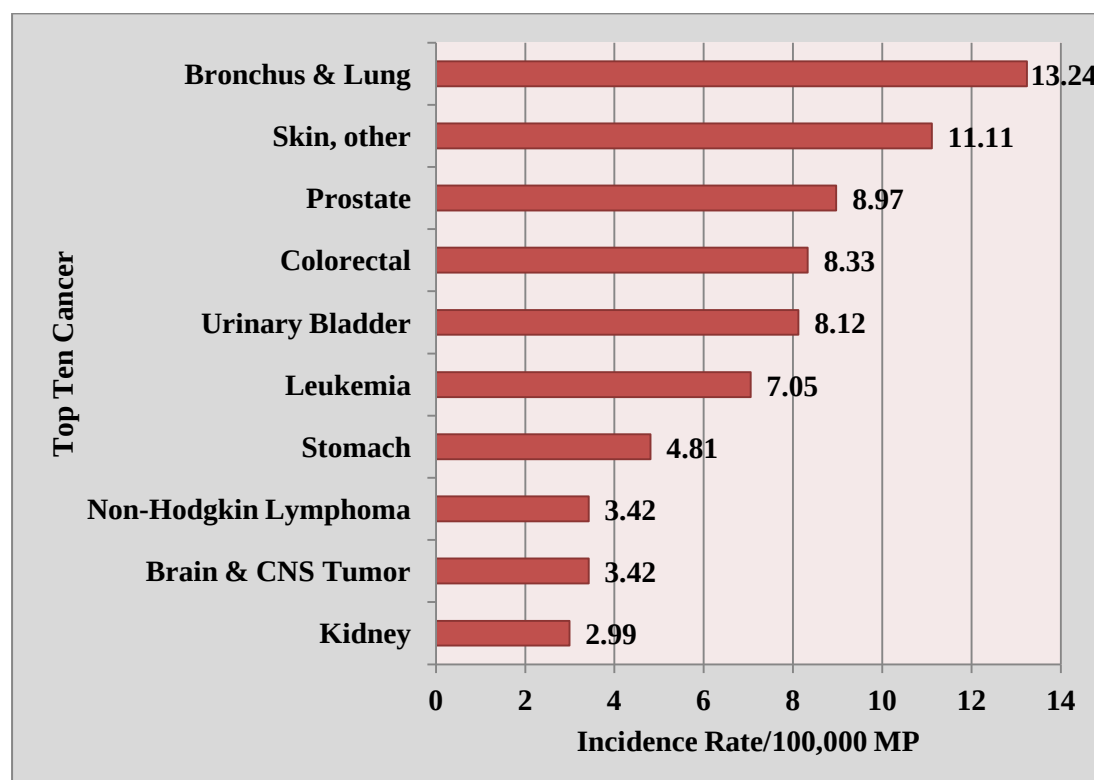


Table No.; (20) Distribution of top ten cancers in females, Erbil, Iraq, 2018

Top Ten		No.	%
1	Breast	316	30.44
2	Skin, other	116	11.18
3	Colorectal	65	6.26
4	Thyroid Gland	56	5.39
5	Corpus Uteri	53	5.11
6	Leukemia	43	4.14
7	Ovary	40	3.85
8	Kidney	37	3.56
9	Bronchus & Lung	36	3.47
10	Hodgkin Lymphoma	24	2.31
Total Top Ten		786	75.72
Total other Site		252	24.28
Total		1,038	100.00%

Figure No.; (16) Incidence rate of top ten cancers in females /100,000 female populations, Erbil, Iraq, 2018

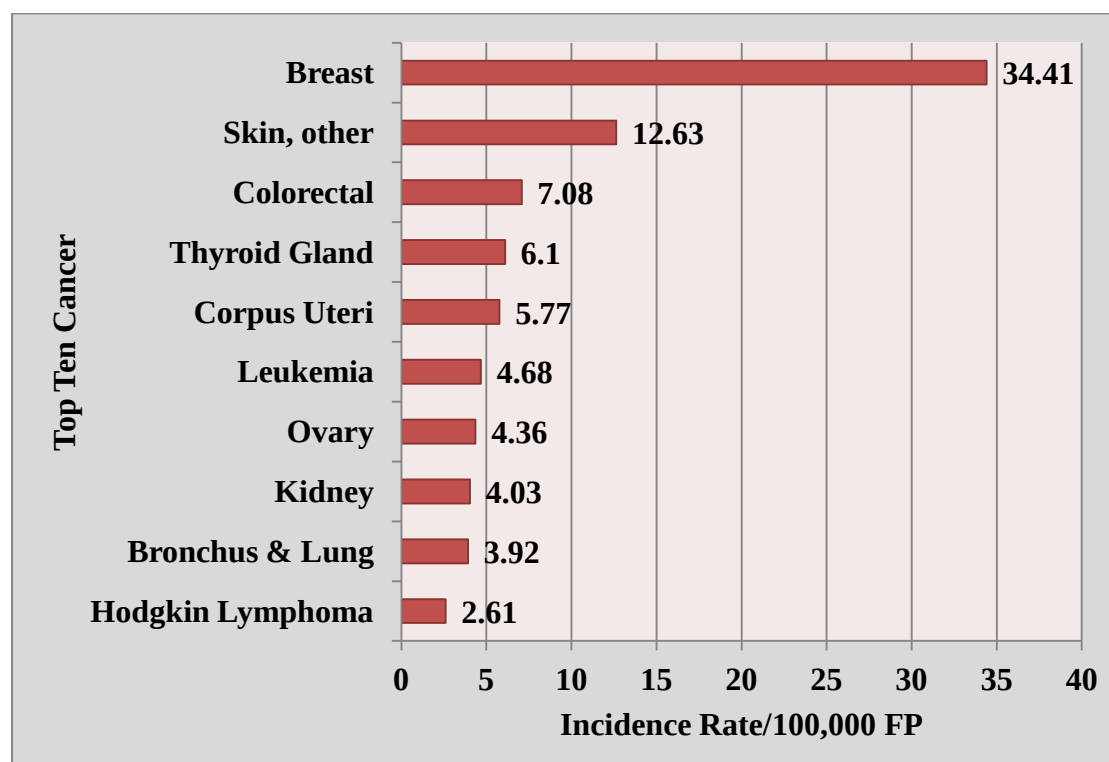


Table No.; (21) Distribution and incidence rate of top ten cancers in Erbil by districts /100,000 Erbil populations, Iraq, 2018

Top Ten	Choman		Deshti Erbil		Erbil		Khabat		Kweisengek		Meirgehsor		Rawandooz		Shaqlawat		Sooran		Total	
	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR
Breast	5	15.85	17	7.60	238	24.87	8	7.18	14	12.39	5	9.35	4	15.60	20	13.23	14	7.45	325	17.52
Skin, other	0	0.00	18	8.05	171	17.87	9	8.08	5	4.42	0	0.00	1	3.90	10	6.61	6	3.19	220	11.86
Bronchus & Lung	1	3.17	7	3.13	114	11.91	10	8.98	10	8.85	0	0.00	4	15.60	8	5.29	6	3.19	160	8.63
Colorectal	1	3.17	9	4.02	109	11.39	3	2.69	7	6.19	5	9.35	0	0.00	1	0.66	8	4.26	143	7.71
Leukemia	0	0.00	12	5.36	72	7.52	6	5.39	3	2.65	1	1.87	2	7.80	8	5.29	5	2.66	109	5.88
Urinary Bladder	0	0.00	3	1.34	66	6.90	4	3.59	5	4.42	0	0.00	0	0.00	5	3.31	7	3.72	90	4.85
Prostate	1	6.29	3	2.65	67	13.85	4	6.13	1	1.75	1	3.72	0	0.00	6	7.87	1	1.05	84	8.97
Thyroid Gland	1	3.17	2	0.89	58	6.06	2	1.80	0	0.00	1	1.87	0	0.00	7	4.63	4	2.13	75	4.04
Kidney	1	3.17	4	1.79	50	5.23	1	0.90	2	1.77	0	0.00	0	0.00	4	2.65	3	1.60	65	3.50
Stomach	1	3.17	1	0.45	48	5.02	1	0.90	2	1.77	0	0.00	1	3.90	3	1.98	6	3.19	63	3.40
Total	11	34.87	76	33.97	993	103.78	48	43.09	49	43.35	13	24.32	12	46.80	72	47.62	60	31.91	1334	71.92
Percentage	0.82	---	5.70	---	74.44	---	3.60	---	3.67	---	0.97	---	0.90	---	5.40	---	4.50	---	100.00%	---

Al Sulaimanyia
Populations Number : 2,162,279
Cancer Cases Number : 2263
Incidence Rate: 104.66 / 100,000 Al Sulaimanyia Populations

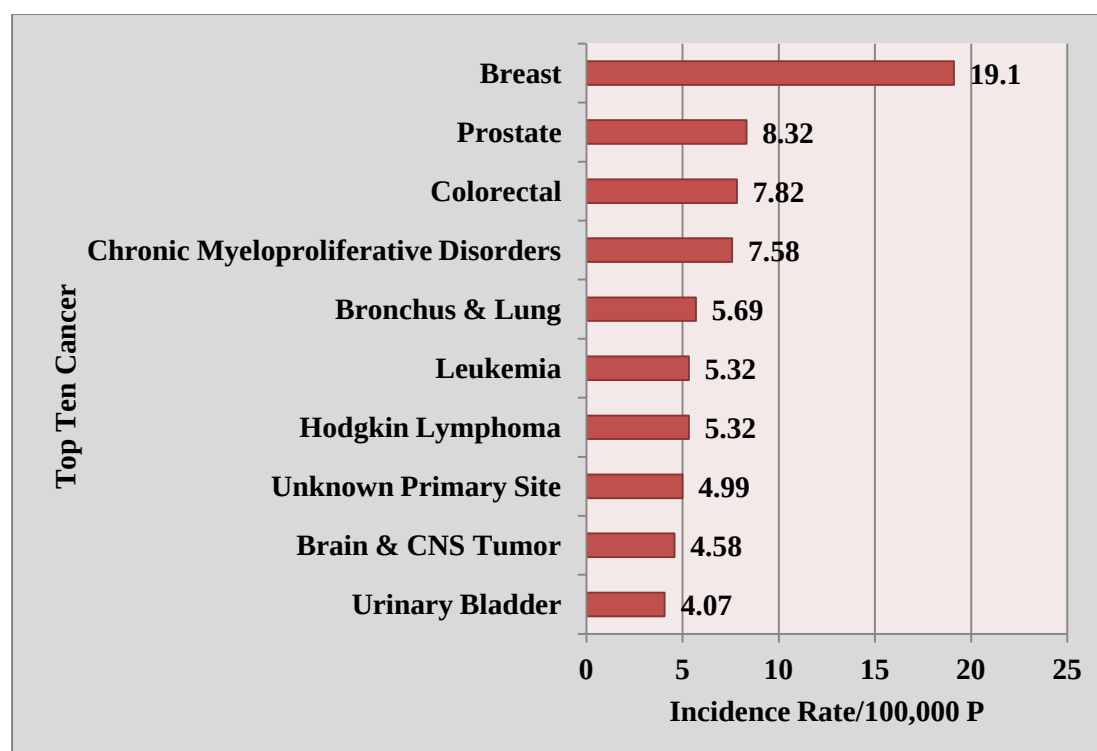


3.4.2. Al Sulaimanyia governorate

Table No.; (22) Distribution of top ten cancers in Al Sulaimanyia, Iraq, 2018

Top Ten		No.	%
1	Breast	413	18.25
2	Colorectal	169	7.47
3	Chronic Myeloproliferative Disorders	164	7.25
4	Bronchus & Lung	123	5.44
5	Hodgkin Lymphoma	115	5.08
6	Leukemia	115	5.08
7	Unknown Primary Site	108	4.77
8	Brain & CNS Tumor	99	4.37
9	Prostate	90	3.98
10	Urinary Bladder	88	3.89
Total Top Ten		1,484	65.58
Total other Site		779	34.42
Total		2,263	100.00%

Figure No.; (17) Incidence rate of top ten cancers in Al Sulaimanyia /100,000 Al Sulaimanyia Populations, Iraq, 2018



Prostate incidence rate calculated from the male populations.

Table No.; (23) Distribution of top ten cancers in males, Al Sulaimanyia, Iraq, 2018

Top Ten		No.	%
1	Chronic Myeloproliferative Disorders	110	10.81
2	Bronchus & Lung	97	9.53
3	Colorectal	94	9.23
4	Prostate	90	8.84
5	Urinary Bladder	76	7.47
6	Hodgkin Lymphoma	67	6.58
7	Leukemia	65	6.39
8	Unknown Primary Site	53	5.21
9	Brain & CNS Tumor	51	5.01
10	Stomach	45	4.42
Total Top Ten		748	73.48
Total other Site		270	26.52
Total		1,018	100.00%

Figure No.; (18) Incidence rate of top ten cancers in males / 100,000 Male populations, Al Sulaimanyia, Iraq, 2018

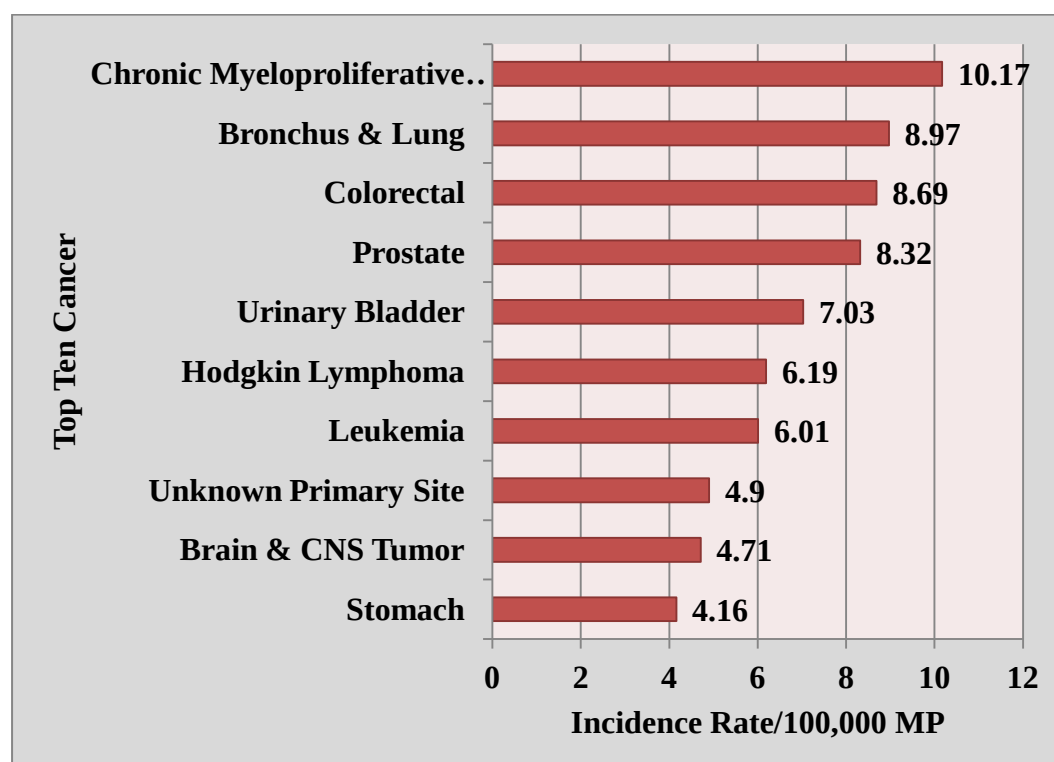
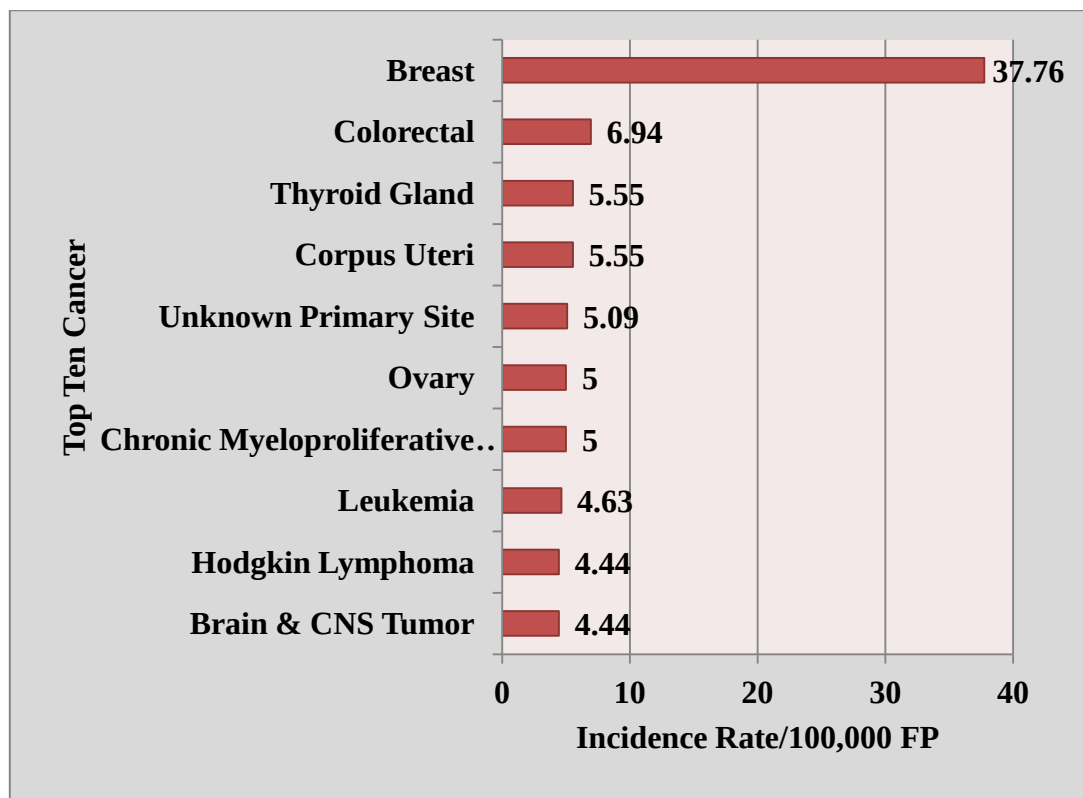


Table No.; (24) Distribution of top ten cancers in females, Al Sulaimanyia, Iraq, 2018

Top Ten		No.	%
1	Breast	408	32.77
2	Colorectal	75	6.02
3	Corpus Uteri	60	4.82
4	Thyroid Gland	60	4.82
5	Unknown Primary Site	55	4.42
6	Chronic Myeloproliferative Disorders	54	4.34
7	Ovary	54	4.34
8	Leukemia	50	4.02
9	Brain & CNS Tumor	48	3.86
10	Hodgkin Lymphoma	48	3.86
Total Top Ten		912	73.25
Total other Site		333	26.75
Total		1,245	100.00%

Figure No.; (19) Incidence rate of top ten cancers in females /100,000 female populations, Al Sulaimanyia, Iraq, 2018



**Table No.; (25) Distribution and incidence rate of top ten cancers in Al Sulaimanyia by districts /100,000 Al Sulaimanyia populations,
Iraq, 2018**

Top Ten	Al Sulaimanyia		Bashdar		Cham Chamal		Darbandykhana		Dokan		Halabcha		Kfri		Klar		Penjwin		Rania		Shahrazur		Sharbazher		Total	
	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR
Breast	263	29.95	9	6.88	31	18.25	8	15.89	8	11.05	14	12.85	7	12.70	28	14.03	2	4.32	27	11.44	10	14.24	6	27.98	413	19.10
Colorectal	99	11.27	8	6.12	15	8.83	1	1.99	5	6.91	5	4.59	3	5.44	14	7.01	2	4.32	10	4.24	6	8.54	1	4.66	169	7.82
Chronic Myeloproliferative Disorders	108	12.30	3	2.29	10	5.89	4	7.95	5	6.91	8	7.34	1	1.81	6	3.01	6	12.97	7	2.97	4	5.70	2	9.33	164	7.58
Bronchus & Lung	77	8.77	1	0.76	9	5.30	4	7.95	4	5.53	5	4.59	1	1.81	8	4.01	0	0.00	10	4.24	3	4.27	1	4.66	123	5.69
Hodgkin Lymphoma	65	7.40	6	4.59	9	5.30	0	0.00	2	2.76	4	3.67	3	5.44	13	6.51	0	0.00	8	3.39	5	7.12	0	0.00	115	5.32
Leukemia	73	8.31	1	0.76	5	2.94	3	5.96	3	4.15	3	2.75	3	5.44	10	5.01	1	2.16	9	3.81	4	5.70	0	0.00	115	5.32
Unknown Primary Site	60	6.83	4	3.06	8	4.71	0	0.00	1	1.38	8	7.34	1	1.81	6	3.01	2	4.32	8	3.39	10	14.24	0	0.00	108	4.99
Brain & CNS Tumor	56	6.38	4	3.06	4	2.36	0	0.00	6	8.29	3	2.75	2	3.63	8	4.01	3	6.48	11	4.66	2	2.85	0	0.00	99	4.58
Prostate	61	13.90	1	1.53	7	8.24	4	15.90	2	5.51	3	5.50	1	3.62	3	3.01	0	0.00	3	2.54	5	14.24	0	0.00	90	8.32
Urinary Bladder	45	5.12	2	1.53	8	4.71	4	7.95	1	1.38	4	3.67	1	1.81	8	4.01	1	2.16	8	3.39	5	7.12	1	4.66	88	4.07
Total	907	103.29	39	29.82	106	62.41	28	55.62	37	51.13	57	52.31	23	41.72	104	52.11	17	36.74	101	42.80	54	76.89	11	51.30	1484	68.63
Percentage	61.12	---	2.63	---	7.14	---	1.89	---	2.49	---	3.84	---	1.55	---	7.01	---	1.15	---	6.81	---	3.64	---	0.74	---	100%	---

Karbala
Populations Number : 1,218,732
Cancer Cases Number :1191
Incidence Rate: 97.72 / 100,000 Karbala Populations



3.4.3. Karbala governorate

Table No.; (26) Distribution of top ten cancers in Karbala, Iraq, 2018

Top Ten All		No.	%
1	Breast	206	17.30
2	Bronchus & Lung	136	11.42
3	Urinary Bladder	85	7.14
4	Brain & CNS Tumor	79	6.63
5	Leukemia	77	6.47
6	Colorectal	59	4.95
7	Thyroid Gland	51	4.28
8	Non-Hodgkin Lymphoma	50	4.20
9	Skin, other	40	3.36
10	Liver	39	3.27
Total Top Ten		822	69.02
Total other Site		369	30.98
Total		1,191	100.00%

Figure No.; (20) Incidence rate of top ten cancers in Karbala /100,000 Karbala populations, Iraq, 2018

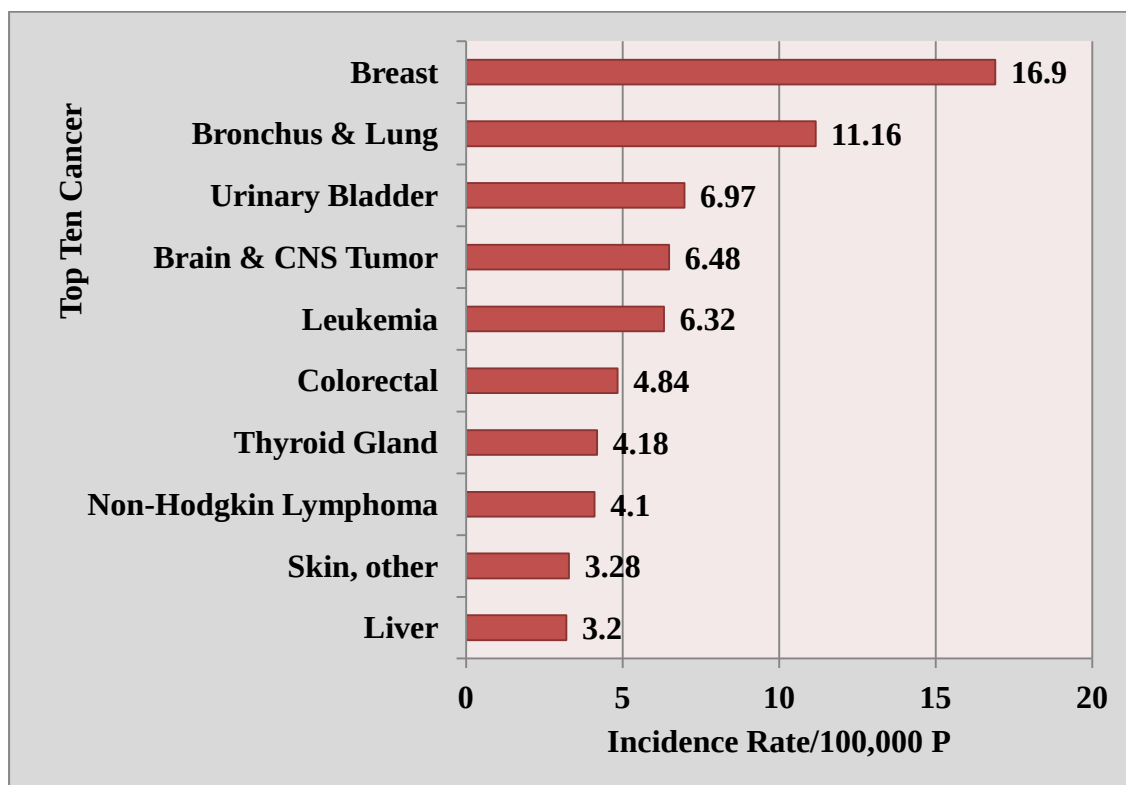


Table No.; (27) Distribution of top ten cancers in males, Karballa, Iraq, 2018

Top Ten All		No.	%
1	Bronchus & Lung	75	14.73
2	Urinary Bladder	62	12.18
3	Leukemia	44	8.64
4	Prostate	38	7.47
5	Brain & CNS Tumor	36	7.07
6	Colorectal	32	6.29
7	Non-Hodgkin Lymphoma	24	4.72
8	Skin, other	23	4.52
9	Thyroid Gland	18	3.54
10	Stomach	18	3.54
Total Top Ten		370	72.69
Total other Site		139	27.31
Total		509	100.00%

Figure No.; (21) Incidence Rate of top ten cancers in males /100,000 Male Populations, Karballa, Iraq, 2018

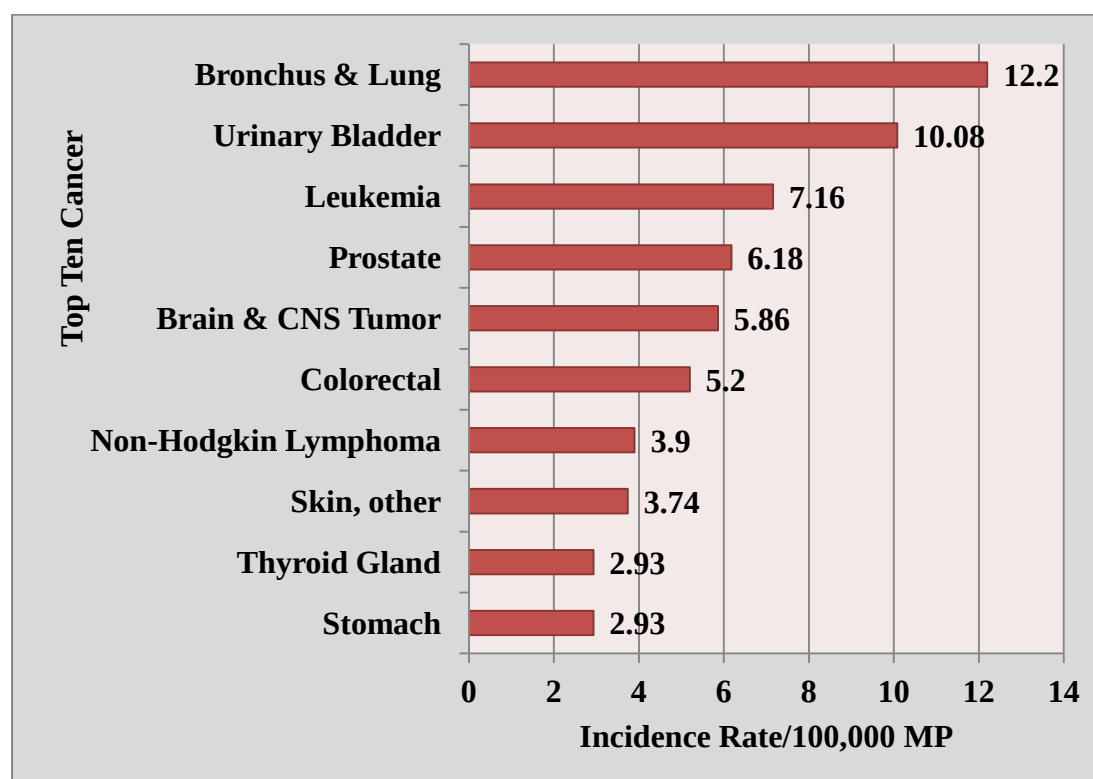


Table No.; (28) Distribution of top ten cancers in females, Karballa, Iraq, 2018

Top Ten All		No.	%
1	Breast	205	30.06
2	Bronchus & Lung	61	8.94
3	Brain & CNS Tumor	43	6.30
4	Thyroid Gland	33	4.84
5	Leukemia	33	4.84
6	Ovary	28	4.11
7	Colorectal	27	3.96
8	Non-Hodgkin Lymphoma	26	3.81
9	Liver	24	3.52
10	Urinary Bladder	23	3.37
Total Top Ten		503	73.75
Total other Site		179	26.25
Total		682	100.00%

Figure No.; (22) Incidence Rate of top ten cancers in females / 100,000 female populations, Karballa, Iraq, 2018

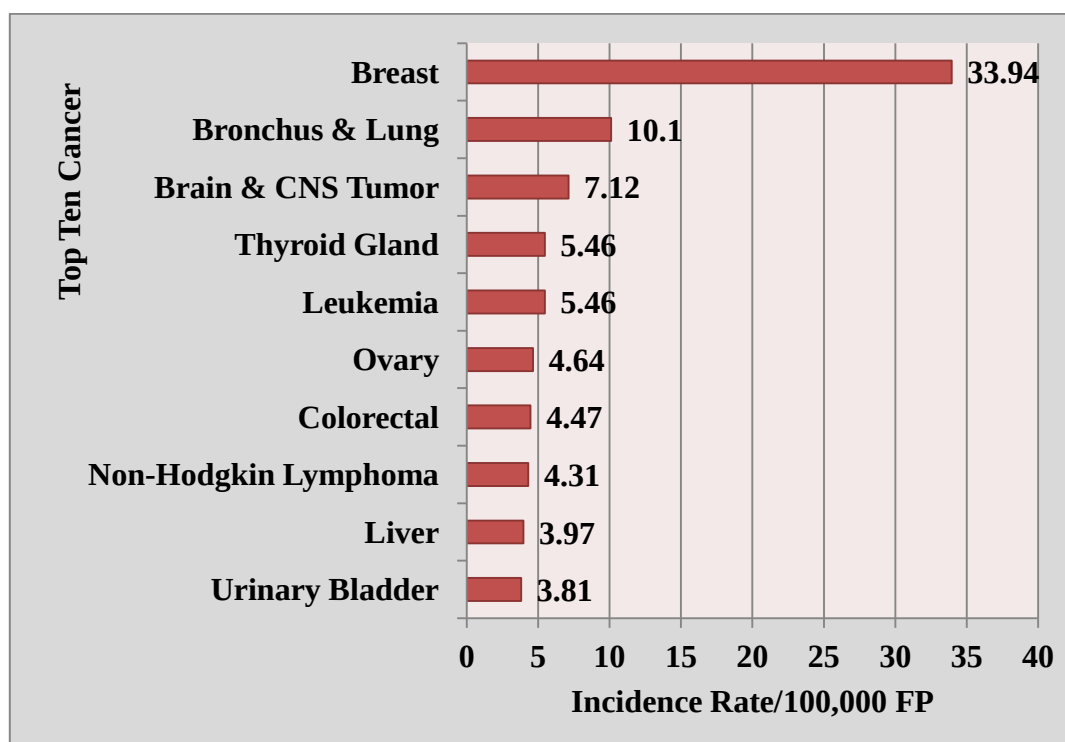
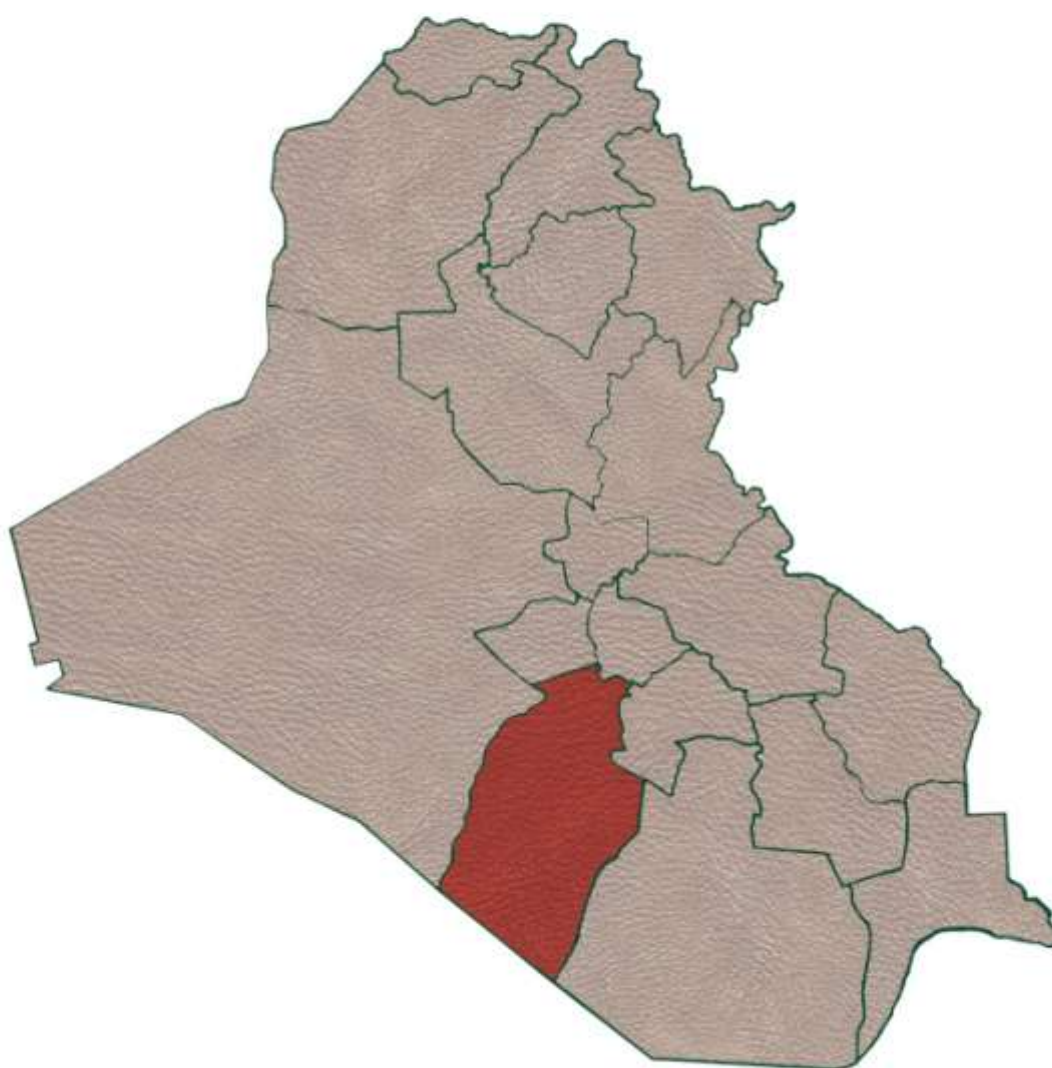


Table No.; (29) Distribution and incidence rate of top ten cancers in Karbala by districts /100,000 Karbala populations, Iraq, 2018

Top Ten	Ain Tamor		Al Hindia		Karbala		Total	
	No.	IR	No.	IR	No.	IR	No.	IR
Breast	3	10.53	38	14.52	165	17.77	206	16.90
Bronchus & Lung	6	21.07	35	13.38	95	10.23	136	11.16
Urinary Bladder	0	0.00	10	3.82	75	8.08	85	6.97
Brain & CNS Tumor	0	0.00	10	3.82	69	7.43	79	6.48
Leukemia	4	14.05	7	2.68	66	7.11	77	6.32
Colorectal	0	0.00	9	3.44	50	5.38	59	4.84
Thyroid Gland	0	0.00	3	1.15	48	5.17	51	4.18
Non-Hodgkin Lymphoma	0	0.00	10	3.82	40	4.31	50	4.10
Skin, other	0	0.00	7	2.68	33	3.55	40	3.28
Liver	1	3.51	9	3.44	29	3.12	39	3.20
Total	14	49.16	138	52.74	670	72.15	822	67.45
Percentage	1.70	---	16.79	---	81.51	---	100.00%	---

Al Najaf
Populations Number : 1,471,592
Cancer Cases Number :1437
Incidence Rate: 97.65/100,000 Al Najaf Populations

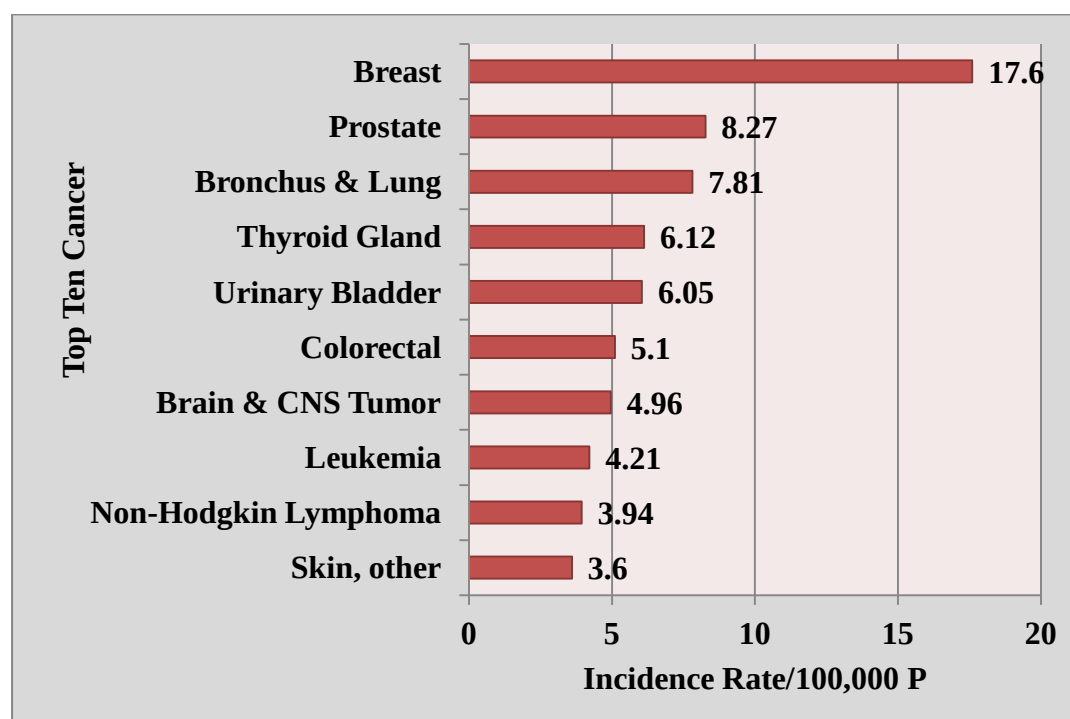


3.4.4. Al-Najaf governorate

Table No.; (30) Distribution of top ten cancers in Al-Najaf, Iraq, 2018

Top Ten		N0.	%
1	Breast	259	18.02
2	Bronchus & Lung	115	8.00
3	Thyroid Gland	90	6.26
4	Urinary Bladder	89	6.19
5	Colorectal	75	5.22
6	Brain & CNS Tumor	73	5.08
7	Leukemia	62	4.31
8	Prostate	61	4.24
9	Non-Hodgkin Lymphoma	58	4.04
10	Skin, other	53	3.69
Total Top Ten		935	65.07
Total other Site		502	34.93
Total		1,437	100.00%

Figure No.; (23) Incidence rate of top ten cancers in Al-Najaf /100,000 Al-Najaf populations, Iraq, 2018



Prostate incidence rate calculated from the male populations.

Table No.; (31) Distribution of top ten cancers in males, Al-Najaf, Iraq, 2018

Top Ten		No.	%
1	Bronchus & Lung	77	12.36
2	Urinary Bladder	63	10.11
3	Prostate	61	9.79
4	Leukemia	42	6.74
5	Brain & CNS Tumor	41	6.58
6	Colorectal	37	5.94
7	Non-Hodgkin Lymphoma	31	4.98
8	Stomach	30	4.82
9	Skin, other	29	4.65
10	Larynx	22	3.53
Total Top Ten		433	69.50
Total other Site		190	30.50
Total		623	100.00%

Figure No.; (24) Incidence rate of top ten cancers in males / 100,000 male populations, Al-Najaf, Iraq, 2018

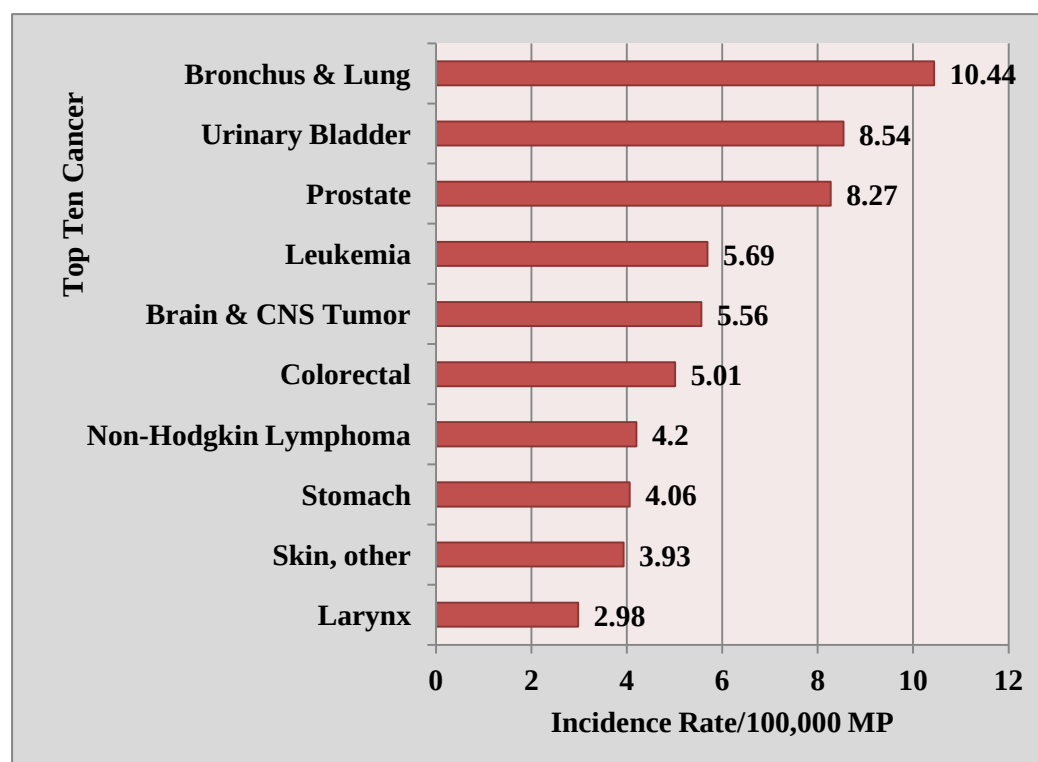


Table No.; (32) Distribution of top ten cancers in females, Al-Najaf, Iraq, 2018

Top Ten		No.	%
1	Breast	258	31.70
2	Thyroid Gland	71	8.72
3	Ovary	46	5.65
4	Bronchus & Lung	38	4.67
5	Colorectal	38	4.67
6	Corpus Uteri	38	4.67
7	Brain & CNS Tumor	32	3.93
8	Liver	29	3.56
9	Non-Hodgkin Lymphoma	27	3.32
10	Urinary Bladder	26	3.19
Total Top Ten		603	74.08
Total other Site		211	25.92
Total		814	100.00%

Figure No.; (25) Incidence rate of top ten cancers in females / 100,000 female populations, Al-Najaf, Iraq, 2018

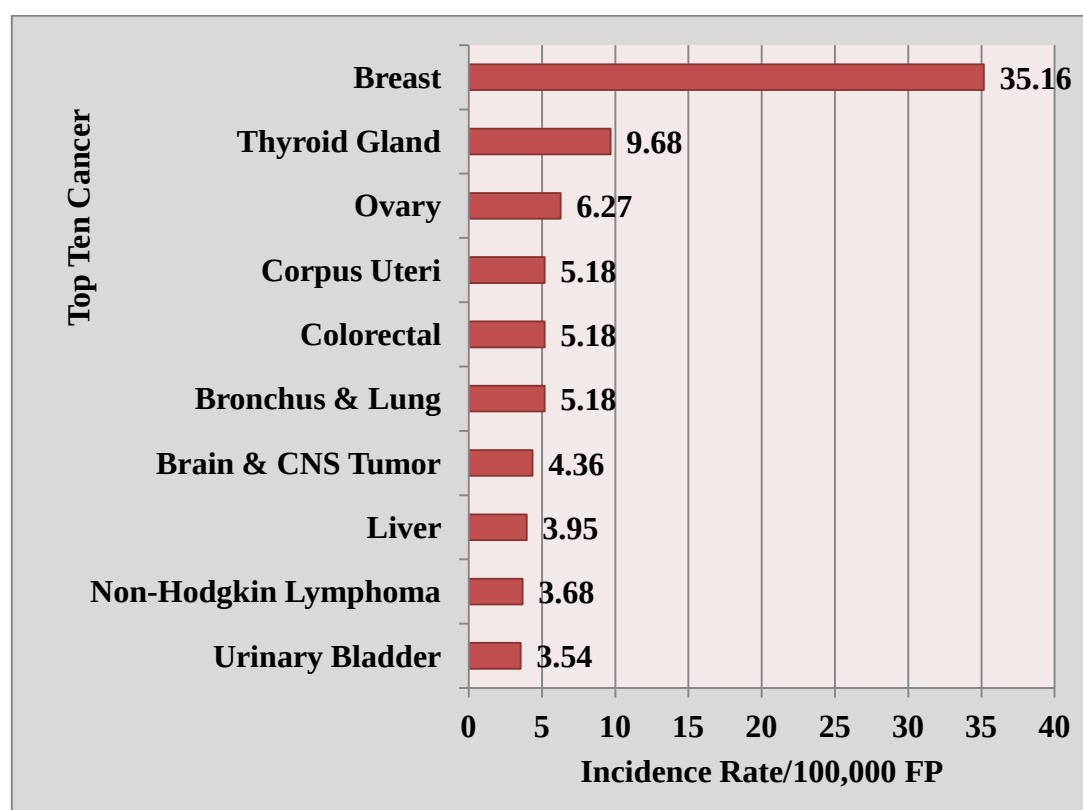


Table No.; (33) Distribution and incidence rate of top ten cancers in Al Najaf by districts / 100,000 Al-Najaf populations, Iraq, 2018

Top Ten All	Al Kuffa		Al Manathra		Al Najaf		Total	
	No.	IR	No.	IR	No.	IR	No.	IR
Breast	55	14.96	29	21.76	175	21.07	259	17.60
Bronchus & Lung	23	6.26	18	13.51	74	8.91	115	7.81
Thyroid Gland	11	2.99	12	9.01	67	8.07	90	6.12
Urinary Bladder	14	3.81	6	4.50	69	8.31	89	6.05
Colorectal	6	1.63	5	3.75	64	7.70	75	5.10
Brain & CNS Tumor	16	4.35	10	7.50	47	5.66	73	4.96
Leukemia	6	1.63	9	6.75	47	5.66	62	4.21
Prostate	5	2.70	10	14.87	46	11.08	61	8.27
Non-Hodgkin Lymphoma	13	3.54	10	7.50	35	4.21	58	3.94
Skin, other	8	2.18	3	2.25	42	5.06	53	3.60
Total	157	42.71	112	84.05	666	80.18	935	63.54
Percentage	16.79	---	11.98	---	71.23	---	100.00%	---

Baghdad
Populations Number : 8,126,755
Cancer Cases Number : 7407
Incidence Rate: 91.14/100,000 Baghdad Populations

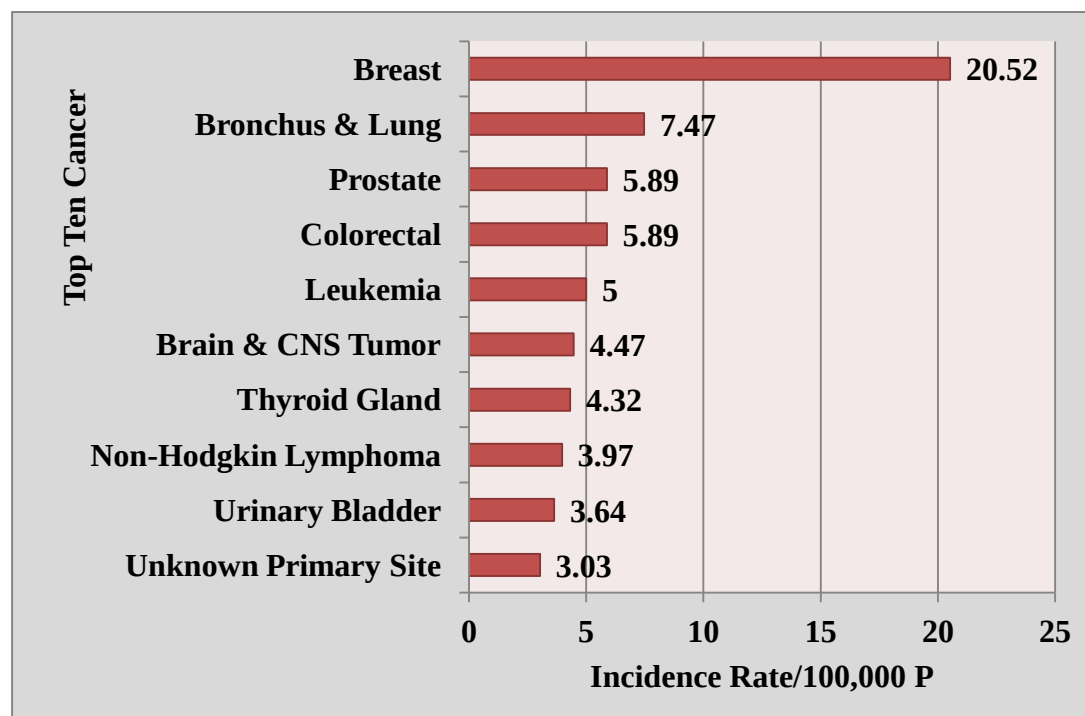


3.4.5. Baghdad governorate

Table No.; (34) Distribution of top ten cancers in Baghdad, Iraq, 2018

Top Ten		No.	%
1	Breast	1,668	22.52
2	Bronchus & Lung	607	8.19
3	Colorectal	479	6.47
4	Leukemia	406	5.48
5	Brain & CNS Tumor	363	4.90
6	Thyroid Gland	351	4.74
7	Non-Hodgkin Lymphoma	323	4.36
8	Urinary Bladder	296	4.00
9	Unknown Primary Site	246	3.32
10	Prostate	243	3.28
Total Top Ten		4,982	67.26
Total other Site		2,425	32.74
Total		7,407	100.00%

Figure No.; (26) Incidence rate of top ten cancers in Baghdad /100,000 Baghdad populations, Iraq, 2018



Prostate incidence rate calculated from the male populations.

Table No.; (35) Distribution of top ten cancers in males, Baghdad, Iraq, 2018

Top Ten		No.	%
1	Bronchus & Lung	428	14.25
2	Colorectal	258	8.59
3	Prostate	243	8.09
4	Urinary Bladder	225	7.49
5	Leukemia	214	7.13
6	Brain & CNS Tumor	200	6.66
7	Non-Hodgkin Lymphoma	179	5.96
8	Unknown Primary Site	121	4.03
9	Pancreas	116	3.86
10	Stomach	113	3.76
Total Top Ten		2,097	69.83
Total other Site		911	30.28
Total		3,008	100.00%

Figure No.; (27) incidence rate of top ten cancers in males / 100,000 male populations, Baghdad, Iraq, 2018

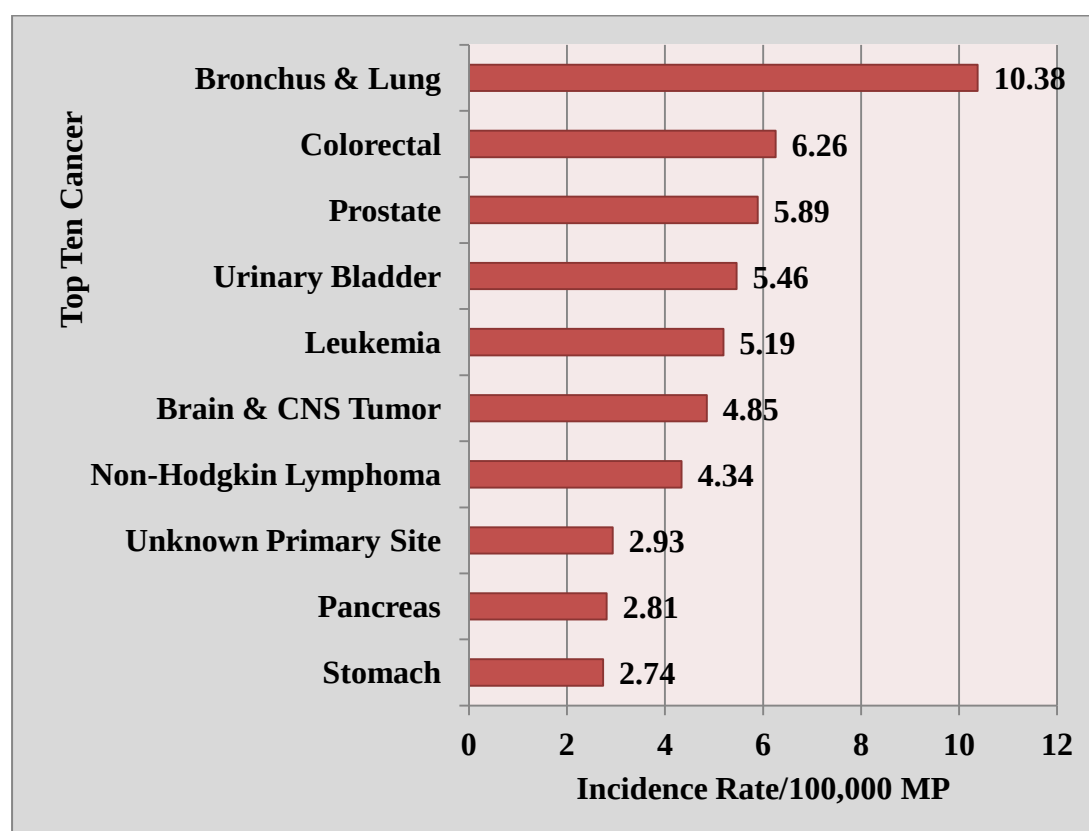


Table No.; (36) Distribution of top ten cancers in females, Baghdad, Iraq, 2018

Top Ten		No.	%
1	Breast	1,639	37.26
2	Thyroid Gland	278	6.32
3	Colorectal	221	5.02
4	Ovary	202	4.59
5	Leukemia	192	4.36
6	Bronchus & Lung	179	4.07
7	Brain & CNS Tumor	163	3.71
8	Non-Hodgkin Lymphoma	144	3.27
9	Corpus Uteri	140	3.18
10	Unknown Primary Site	125	2.84
Total Top Ten		3,283	74.63
Total other Site		1,116	25.37
Total		4,399	100.00%

Figure No.; (28) Incidence rate of top ten cancers in females / 100,000 female populations, Baghdad, Iraq, 2018

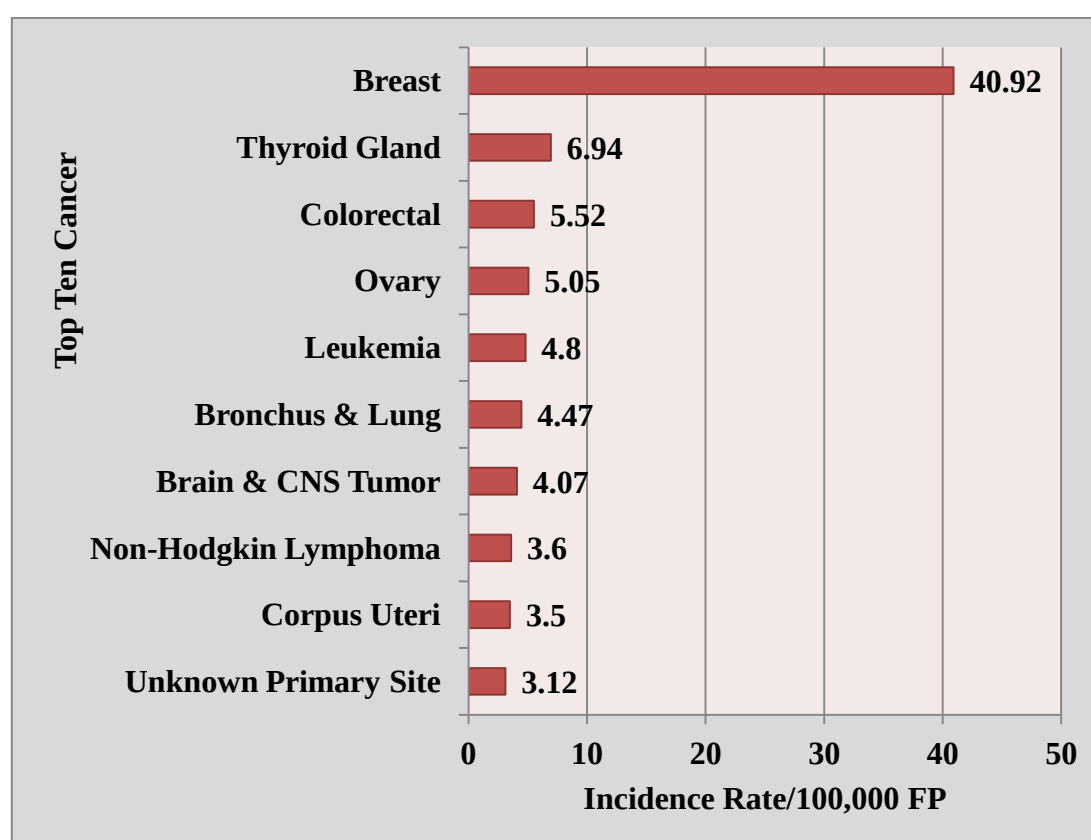
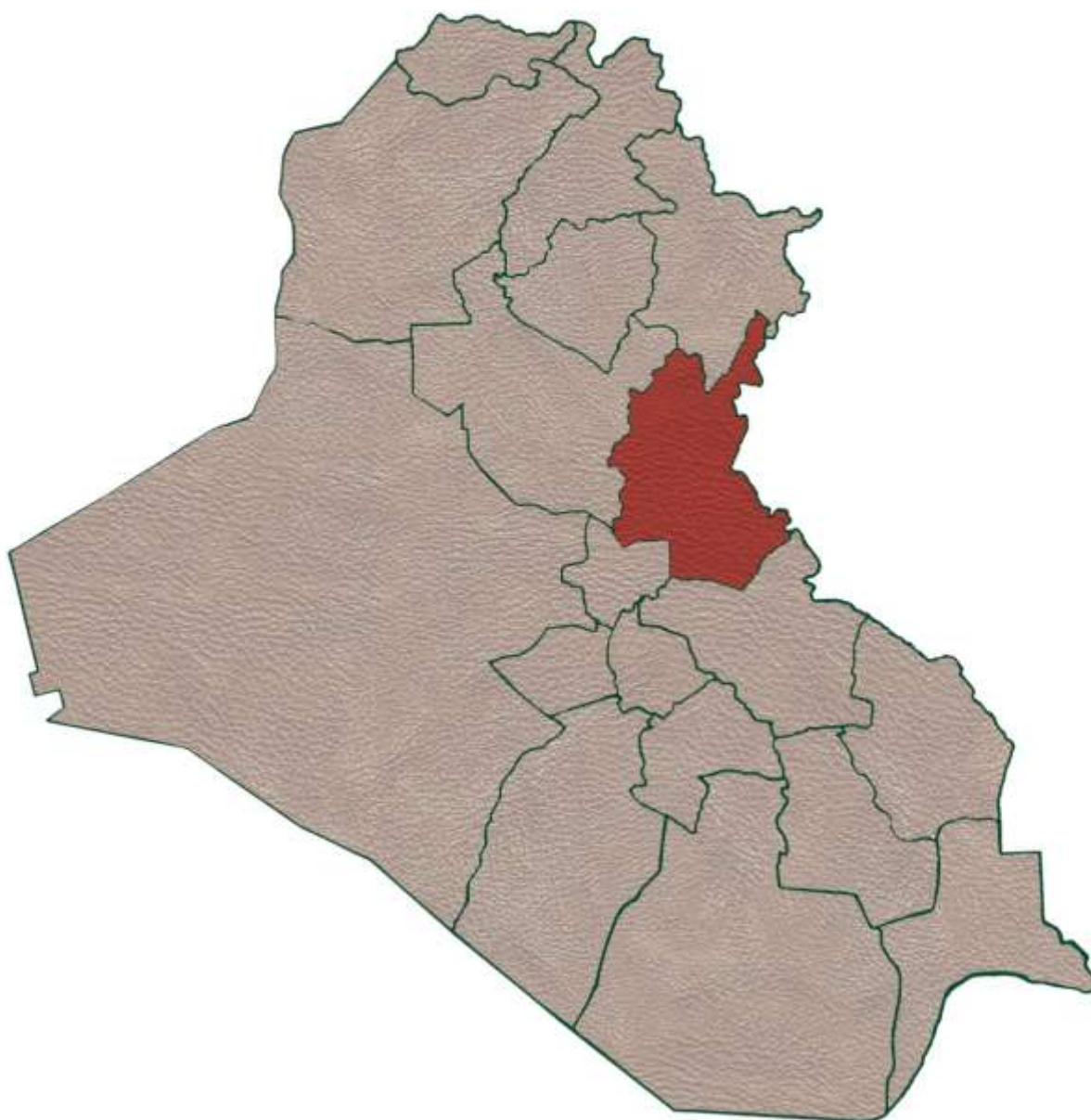


Table No.; (37) Distribution and incidence rate of top ten cancers in Baghdad by districts / 100,000 Baghdad populations, Iraq, 2018

Top Ten	Abu Graib		Al Adhamyia		Al Kadhimiya		Al Karkh		Al Madain		Al Mahmoodyia		Al Sadir		Al Tarmia		Rissaffa		Total	
	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR
Breast	30	9.29	289	24.03	184	20.50	395	24.79	58	12.62	44	9.09	213	17.58	5	3.45	450	24.87	1668	20.52
Bronchus & Lung	11	3.40	93	7.73	59	6.57	143	8.97	37	8.05	15	3.10	94	7.76	2	1.38	153	8.46	607	7.47
Colorectal	8	2.48	73	6.07	59	6.57	126	7.91	13	2.83	10	2.07	66	5.45	5	3.45	119	6.58	479	5.89
Leukemia	14	4.33	50	4.16	44	4.90	96	6.02	21	4.57	18	3.72	73	6.02	5	3.45	85	4.70	406	5.00
Brain & CNS Tumor	11	3.40	39	3.24	42	4.68	81	5.08	7	1.52	19	3.93	62	5.12	2	1.38	100	5.53	363	4.47
Thyroid Gland	14	4.33	50	4.16	21	2.34	82	5.15	13	2.83	13	2.69	49	4.04	3	2.07	106	5.86	351	4.32
Non-Hodgkin Lymphoma	6	1.86	50	4.16	28	3.12	92	5.77	8	1.74	17	3.51	39	3.22	1	0.69	82	4.53	323	3.97
Urinary Bladder	4	1.24	29	2.41	36	4.01	62	3.89	14	3.05	8	1.65	51	4.21	2	1.38	90	4.97	296	3.64
Unknown Primary Site	5	1.55	38	3.16	13	1.45	43	2.70	7	1.52	5	1.03	42	3.47	1	0.69	92	5.08	246	3.03
Prostate	2	1.21	30	4.92	25	5.48	71	8.79	5	2.12	7	2.82	30	4.88	0	0.00	73	7.96	243	5.89
Total	105	32.50	741	61.62	511	56.94	1191	74.73	183	39.81	156	32.23	719	59.33	26	17.92	1350	74.61	4982	61.30
Percentage	2.11	---	14.87	---	10.26	---	23.91	---	3.67	---	3.13	---	14.43	---	0.52	---	27.10	---	100.00%	---

Diyala
Populations Number : 1,637,226
Cancer Cases Number :1430
Incidence Rate: 87.34 / 100,000 Diyala Populations



3.4.6. Diyala governorate

Table No.; (38) Distribution of top ten cancers in Diyala, Iraq, 2018

Top Ten	No.	%
1 Breast	319	22.31
2 Bronchus & Lung	100	6.99
3 Brain & CNS Tumor	87	6.08
4 Colorectal	87	6.08
5 Leukemia	86	6.01
6 Non-Hodgkin Lymphoma	70	4.90
7 Stomach	70	4.90
8 Skin, other	63	4.41
9 Thyroid Gland	50	3.50
10 Urinary Bladder	45	3.15
Total Top Ten	977	68.32
Total other Site	453	31.68
Total	1,430	100.00%

Figure No.; (29) Incidence rate of top ten cancers in Diyala /100,000 Diyala populations, Iraq, 2018

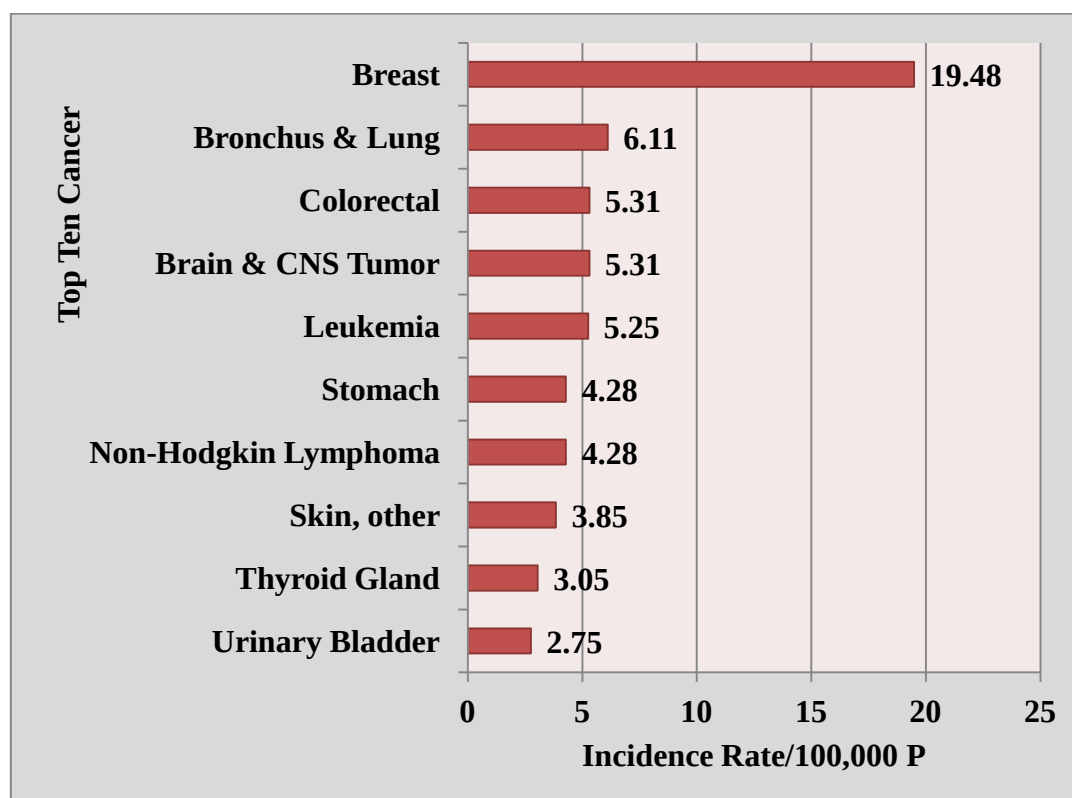


Table No.; (39) Distribution of top ten cancers in males, Diyala, Iraq, 2018

Top Ten		No.	%
1	Bronchus & Lung	69	11.92
2	Colorectal	48	8.29
3	Leukemia	46	7.94
4	Brain & CNS Tumor	44	7.60
5	Urinary Bladder	35	6.04
6	Non-Hodgkin Lymphoma	34	5.87
7	Stomach	31	5.35
8	Skin, other	30	5.18
9	Prostate	27	4.66
10	Hodgkin Lymphoma	20	3.45
Total Top Ten		384	66.32
Total other Site		195	33.68
Total		579	100.00%

Figure No.; (30) Incidence rate of top ten cancers in males / 100,000 male population, Diyala, Iraq, 2018

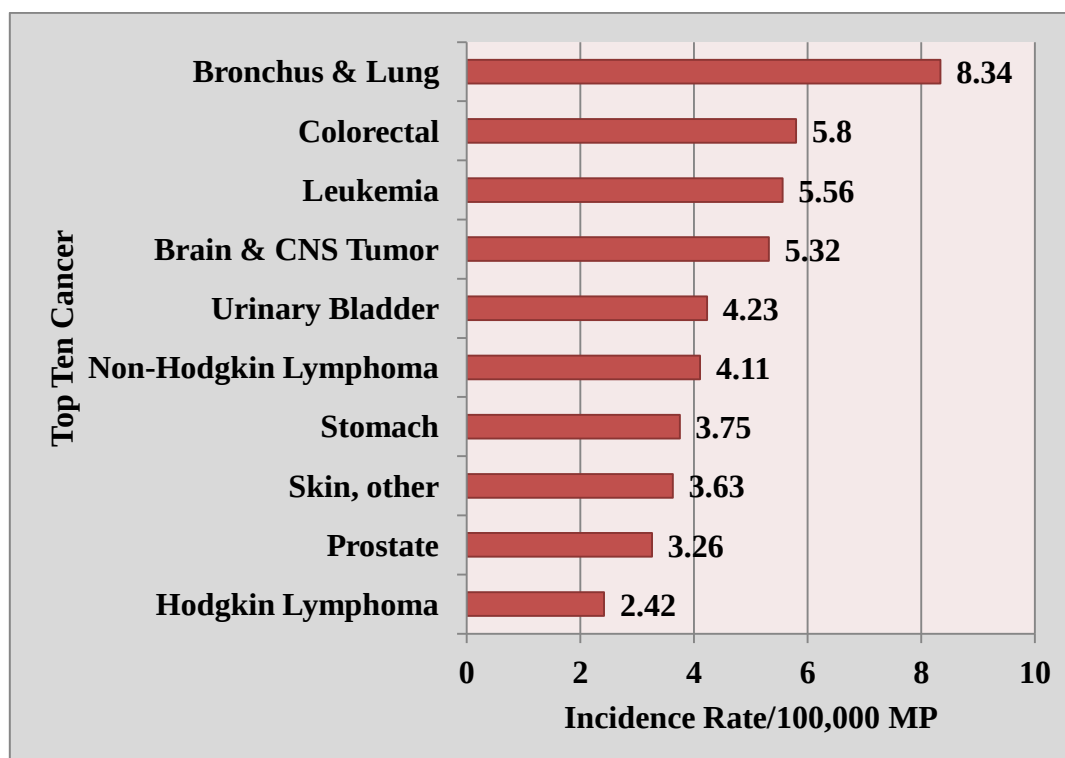


Table No.; (40) Distribution of top ten cancers in females, Diyala, Iraq, 2018

Top Ten		No.	%
1	Breast	307	36.08
2	Thyroid Gland	44	5.17
3	Brain & CNS Tumor	43	5.05
4	Leukemia	40	4.70
5	Colorectal	39	4.58
6	Stomach	39	4.58
7	Non-Hodgkin Lymphoma	36	4.23
8	Skin, other	33	3.88
9	Bronchus & Lung	31	3.64
10	Ovary	24	2.82
Total Top Ten		636	74.74
Total other Site		215	25.26
Total		851	100.00%

Figure No.; (31) Incidence rate of top ten cancer in females / 100,000 female populations, Diyala, Iraq, 2018

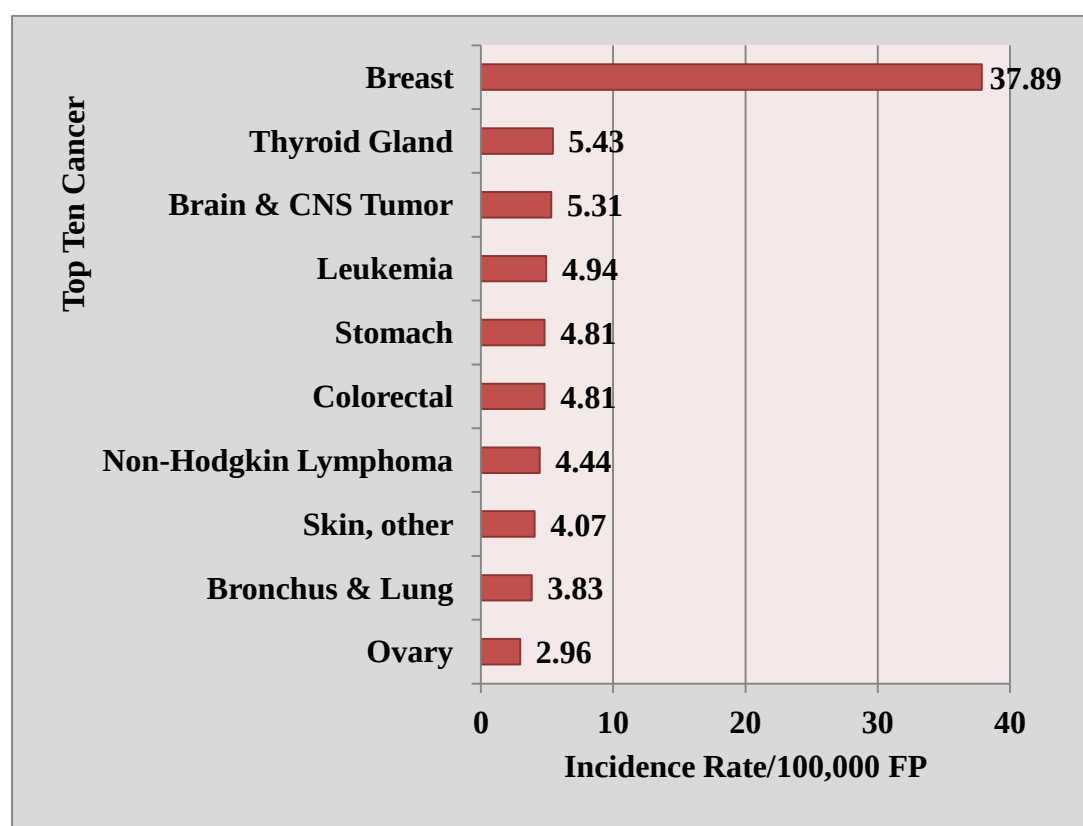
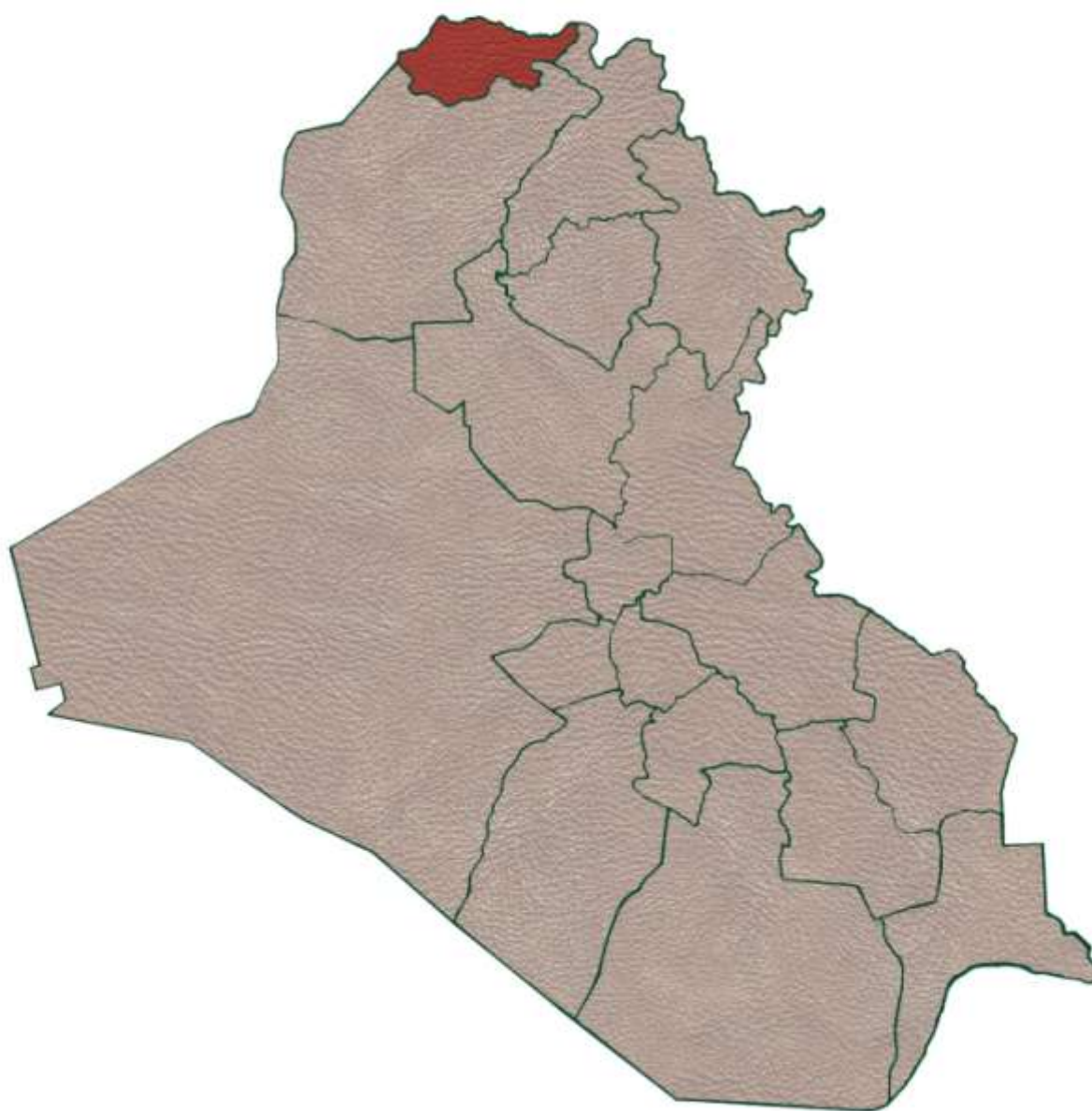


Table No.; (41) Distribution and incidence rate of top ten cancers in Diyala by districts /100,000 Diyala populations, Iraq, 2018

Top Ten	Al Khalis		Al Muqdadiah		Bakooba		Baladrooze		Khanakeen		Total	
	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR
Breast	54	15.43	39	15.32	162	26.96	28	18.90	36	15.50	319	19.48
Bronchus & Lung	18	5.14	14	5.50	45	7.49	5	3.37	18	7.75	100	6.11
Brain & CNS Tumor	10	2.86	11	4.32	45	7.49	10	6.75	11	4.74	87	5.31
Colorectal	14	4.00	8	3.14	41	6.82	9	6.07	15	6.46	87	5.31
Leukemia	12	3.43	4	1.57	52	8.66	11	7.42	7	3.01	86	5.25
Non-Hodgkin Lymphoma	12	3.43	3	1.18	41	6.82	7	4.72	7	3.01	70	4.28
Stomach	20	5.72	5	1.96	34	5.66	4	2.70	7	3.01	70	4.28
Skin, other	6	1.71	3	1.18	37	6.16	5	3.37	12	5.17	63	3.85
Thyroid Gland	7	2.00	4	1.57	33	5.49	4	2.70	2	0.86	50	3.05
Urinary Bladder	5	1.43	3	1.18	28	4.66	4	2.70	5	2.15	45	2.75
Total	158	45.15	94	36.93	518	86.22	87	58.71	120	51.67	977	59.67
Percentage	16.17	---	9.62	---	53.02	---	8.90	---	12.28	---	100.00%	---

Duhok
Populations Number : 1,292,535
Cancer Cases Number :1116
Incidence Rate: 86.34 / 100,000 Duhok Populations

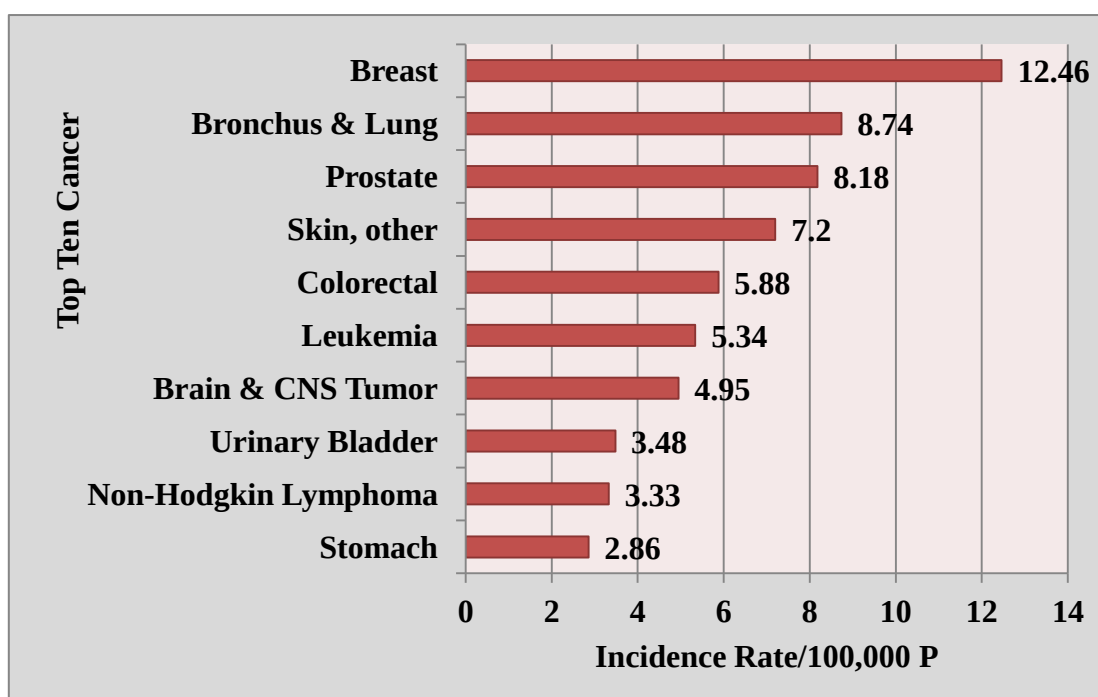


3.4.7. Duhok governorate

Table No.; (42) Distribution of top ten cancers in Duhok, Iraq, 2018

Top Ten		No.	%
1	Breast	161	14.43
2	Bronchus & Lung	113	10.13
3	Skin, other	93	8.33
4	Colorectal	76	6.81
5	Leukemia	69	6.18
6	Brain & CNS Tumor	64	5.73
7	Prostate	53	4.75
8	Urinary Bladder	45	4.03
9	Non-Hodgkin Lymphoma	43	3.85
10	Stomach	37	3.32
Total Top Ten		754	67.56
Total other Site		362	32.44
Total		1,116	100.00%

Figure No.; (32) Incidence rate of top ten cancers in Duhok /100,000
Duhok populations, Iraq, 2018



Prostate incidence rate calculated from the male populations.

Table No.; (43) Distribution of top ten cancers in males, Duhok, Iraq, 2018

Top Ten		No.	%
1	Bronchus & Lung	97	17.29
2	Prostate	53	9.45
3	Skin, other	48	8.56
4	Brain & CNS Tumor	38	6.77
5	Leukemia	38	6.77
6	Urinary Bladder	36	6.42
7	Colorectal	34	6.06
8	Pancreas	20	3.57
9	Stomach	20	3.57
10	Hodgkin Lymphoma	19	3.39
Total Top Ten		403	71.84
Total other Site		158	28.16
Total		561	100.00%

Figure No.; (33) Incidence rate of top ten cancers in males / 100,000 male populations, Duhok, Iraq, 2018

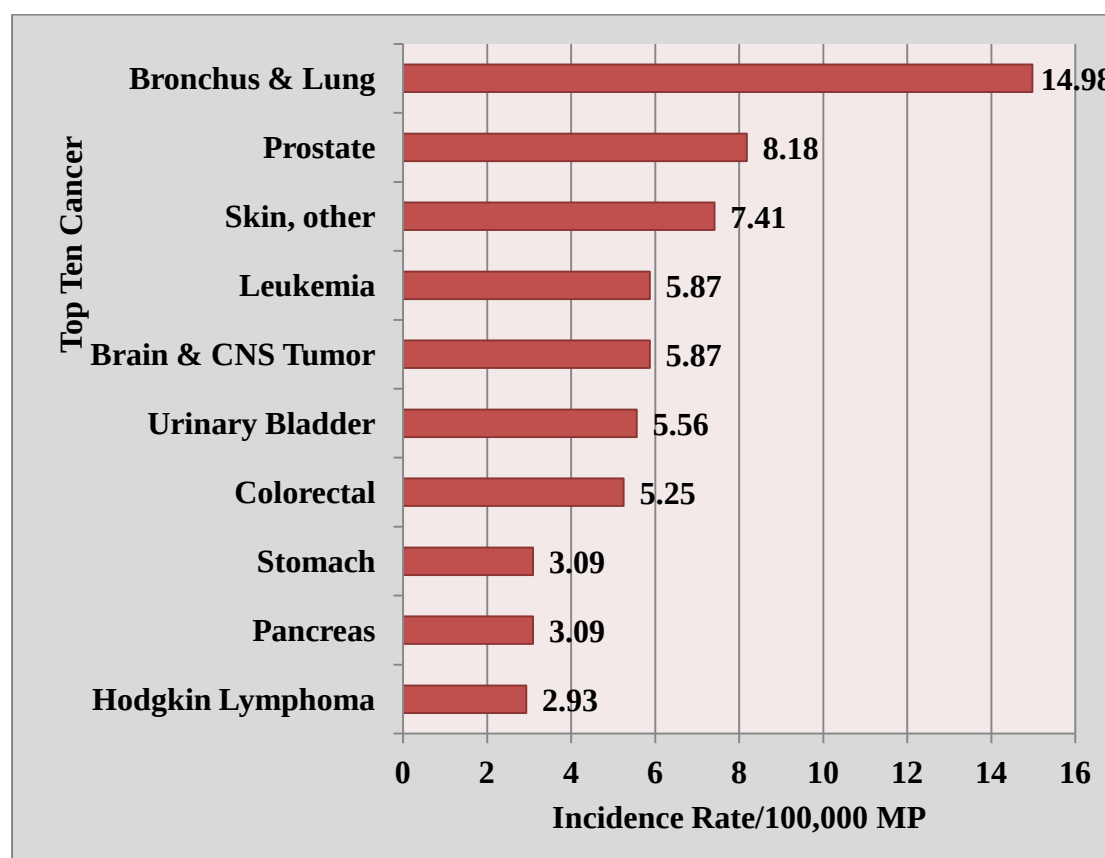


Table No.; (44) Distribution of top ten cancers in females, Duhok, Iraq, 2018

Top Ten		No.	%
1	Breast	159	28.65
2	Skin, other	45	8.11
3	Colorectal	42	7.57
4	Leukemia	31	5.59
5	Non-Hodgkin Lymphoma	29	5.23
6	Thyroid Gland	29	5.23
7	Brain & CNS Tumor	26	4.68
8	Ovary	19	3.42
9	Uterus Unspecified	18	3.24
10	Hodgkin Lymphoma	17	3.06
Total Top Ten		415	74.77
Total other Site		140	25.23
Total		555	100.00%

Figure No.; (34) Incidence rate of top ten cancers in females / 100,000 female populations, Duhok, Iraq, 2018

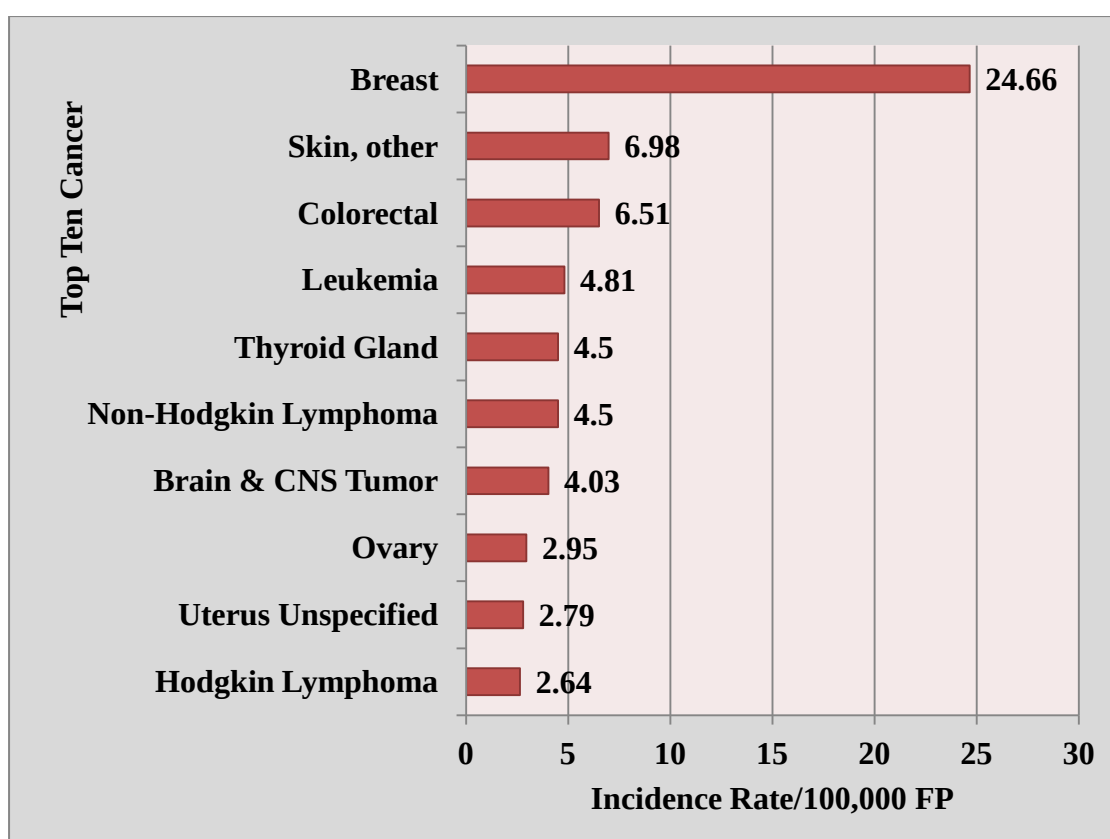
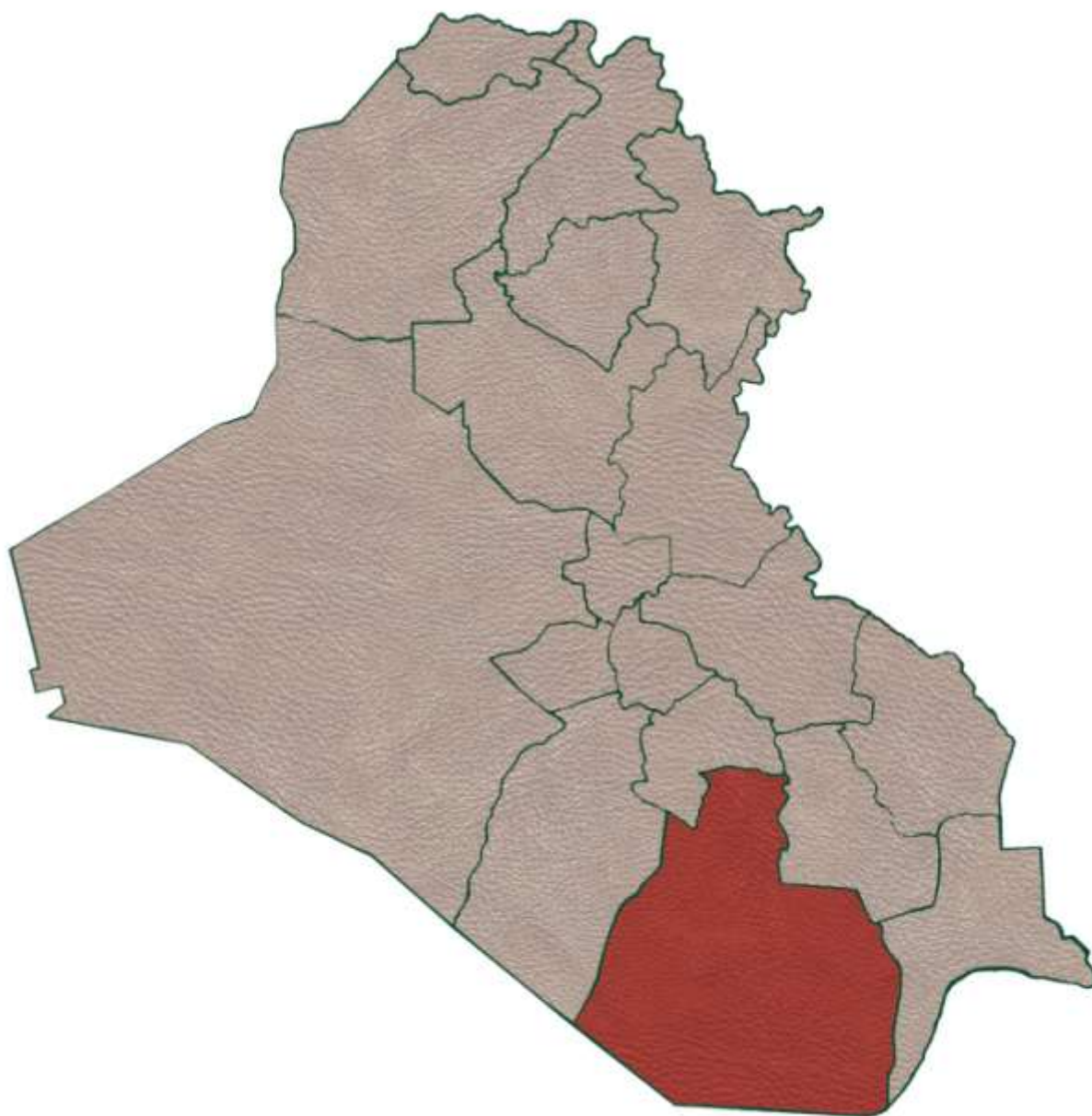


Table No.; (45) Distribution and incidence rate of top ten cancers in Duhok by districts /100,000 Duhok populations, Iraq, 2018

Top Ten	Al Ammadyia		Aqraa		Berdehresh		Duhok		Shaikhan		Sumail		Zakho		Total	
	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR
Breast	7	6.12	11	6.21	9	6.49	96	25.63	4	3.91	9	8.17	25	9.09	161	12.46
Bronchus & Lung	3	2.62	15	8.47	2	1.44	62	16.55	6	5.86	4	3.63	21	7.63	113	8.74
Skin, other	5	4.37	9	5.08	0	0.00	64	17.09	3	2.93	3	2.72	9	3.27	93	7.20
Colorectal	3	2.62	10	5.64	1	0.72	43	11.48	4	3.91	2	1.81	13	4.73	76	5.88
Leukemia	6	5.24	8	4.51	6	4.33	34	9.08	1	0.98	4	3.63	10	3.64	69	5.34
Brain & CNS Tumor	3	2.62	5	2.82	0	0.00	40	10.68	4	3.91	1	0.91	11	4.00	64	4.95
Prostate	2	3.48	2	2.24	3	4.31	37	19.73	1	1.94	1	1.81	7	5.08	53	8.18
Urinary Bladder	2	1.75	0	0.00	0	0.00	28	7.48	1	0.98	3	2.72	11	4.00	45	3.48
Non-Hodgkin Lymphoma	1	0.87	6	3.39	1	0.72	23	6.14	3	2.93	1	0.91	8	2.91	43	3.33
Stomach	1	0.87	3	1.69	2	1.44	27	7.21	0	0.00	0	0.00	4	1.45	37	2.86
Total	33	28.83	69	38.94	24	17.31	454	121.22	27	26.37	28	25.40	119	43.26	754	58.33
Percentage	4.38	---	9.15	---	3.18	---	60.21	---	3.58	---	3.71	---	15.78	---	100.00%	---

Al Muthana
Populations Number : 814,371
Cancer Cases Number :665
Incidence Rate: 81.66/100,000 Al Muthana Populations



3.4.8. Al Muthana governorate

Table No.; (46) Distribution of top ten cancers in Al Muthana, Iraq, 2018

Top Ten		No.	%
1	Brain & CNS Tumor	82	12.33
2	Breast	73	10.98
3	Bronchus & Lung	61	9.17
4	Urinary Bladder	44	6.62
5	Thyroid Gland	42	6.32
6	Leukemia	38	5.71
7	Non-Hodgkin Lymphoma	32	4.81
8	Colorectal	28	4.21
9	Unspecified Site	23	3.46
10	Bones & Cartilage, other	23	3.46
Total Top Ten		446	67.07
Total other Site		219	32.93
Total		665	100.00%

Figure No.; (35) Incidence rate of top ten cancers in Al Muthana /100,000 Al Muthana populations, Iraq, 2018

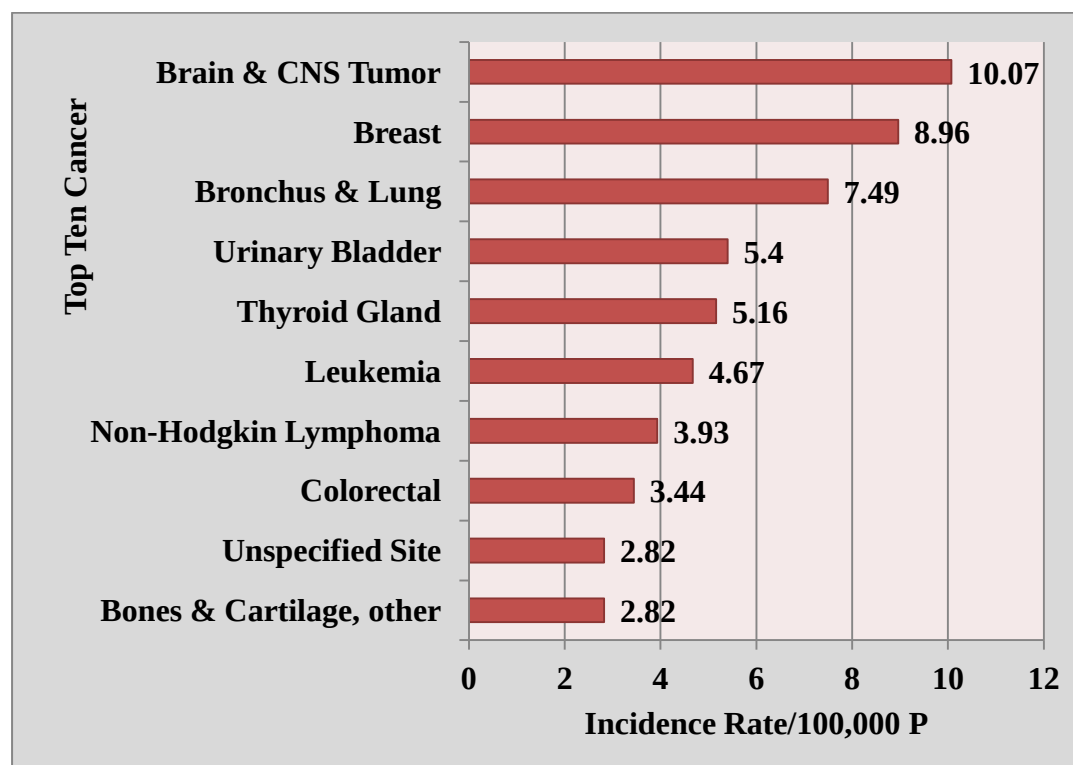


Table No.; (47) Distribution of top ten cancers in males, Al Muthana, Iraq, 2018

Top Ten		No.	%
1	Brain & CNS Tumor	42	14.89
2	Bronchus & Lung	42	14.89
3	Urinary Bladder	25	8.87
4	Leukemia	22	7.80
5	Non-Hodgkin Lymphoma	15	5.32
6	Colorectal	14	4.96
7	Prostate	11	3.90
8	Hodgkin Lymphoma	10	3.55
9	Skin, other	9	3.19
10	Bones & Cartilage, other	9	3.19
Total Top Ten		199	70.57
Total other Site		83	29.43
Total		282	100.00%

Figure No.; (36) Incidence rate of top ten cancers in males / 100,000 male populations, Al Muthana, Iraq, 2018

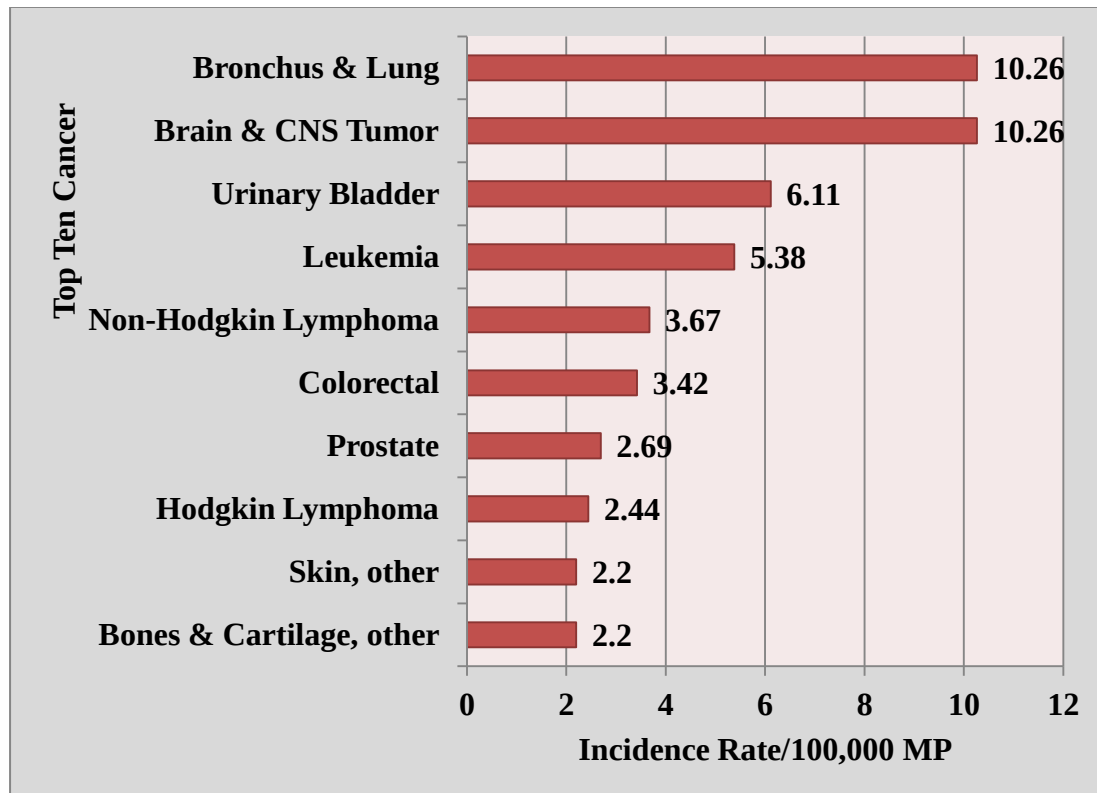


Table No.; (48) Distribution of top ten cancers in females, Al Muthana, Iraq, 2018

Top Ten		No.	%
1	Breast	69	18.02
2	Brain & CNS Tumor	40	10.44
3	Thyroid Gland	33	8.62
4	Urinary Bladder	19	4.96
5	Bronchus & Lung	19	4.96
6	Ovary	17	4.44
7	Non-Hodgkin Lymphoma	17	4.44
8	Unspecified Site	16	4.18
9	Leukemia	16	4.18
10	Uterus Unspecified	15	3.92
Total Top Ten		261	68.15
Total other Site		122	31.85
Total		383	100.00%

Figure No.; (37) Incidence rate of top ten cancers in females / 100,000 female populations, Al Muthana, Iraq, 2018

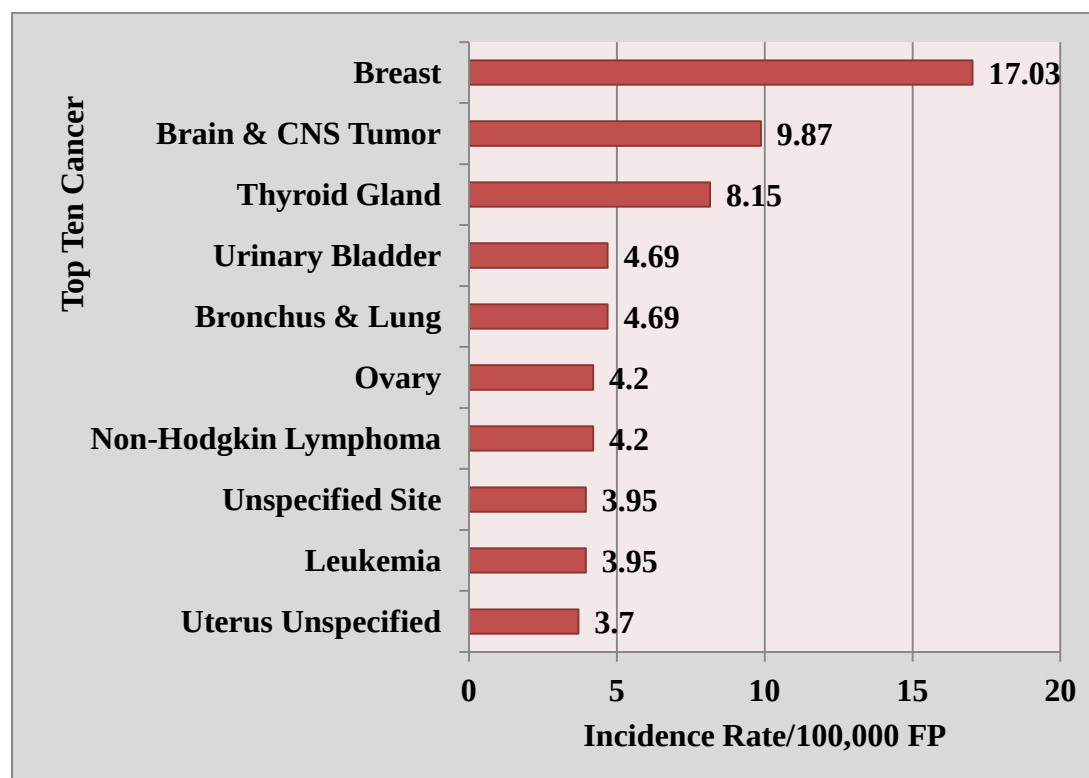


Table No.; (49) Distribution and incidence rate of top ten cancers in Al Muthana by districts /100,000 Al Muthana populations, Iraq, 2018

Top Ten	Al Khidhir		Al Rumaitha		Al Salman		Al Samawa		Total	
	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR
Brain & CNS Tumor	9	8.05	24	9.87	0	0.00	49	14.06	82	10.07
Breast	3	2.68	12	4.94	1	9.03	57	16.35	73	8.96
Bronchus & Lung	1	0.89	29	11.93	0	0.00	31	8.89	61	7.49
Urinary Bladder	5	4.47	8	3.29	1	9.03	30	8.61	44	5.40
Thyroid Gland	2	1.79	11	4.53	0	0.00	29	8.32	42	5.16
Leukemia	2	1.79	11	4.53	1	9.03	24	6.89	38	4.67
Non-Hodgkin Lymphoma	4	3.58	7	2.88	0	0.00	21	6.02	32	3.93
Colorectal	1	0.89	4	1.65	0	0.00	23	6.60	28	3.44
Bones & Cartilage, other	0	0.00	7	2.88	0	0.00	16	4.59	23	2.82
Unspecified Site	2	1.79	5	2.06	0	0.00	16	4.59	23	2.82
Total	29	25.93	118	48.55	3	27.10	296	84.92	446	54.77
Percentage	6.50	---	26.46	---	0.67	---	66.37	---	100.00%	---

Al Basra
Populations Number : 2,908,491
Cancer Cases Number :2315
Incidence Rate: 79.59/100,000 Al Basra Populations

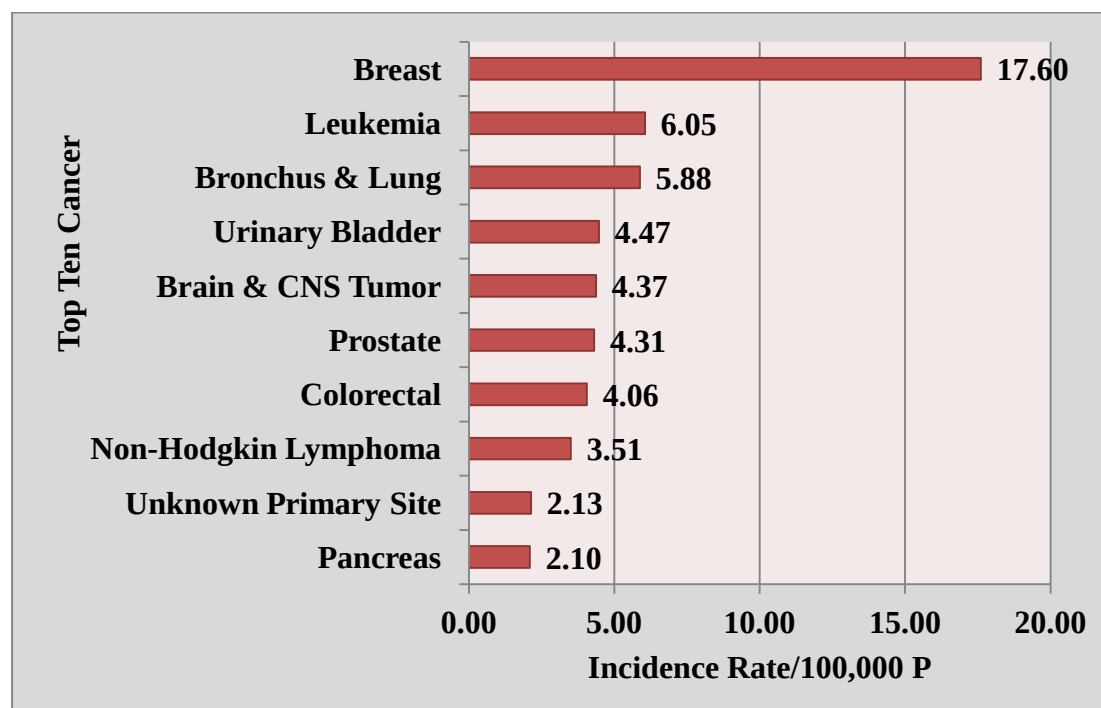


3.4.9. Al Basra governorate

Table No.; (50) Distribution of top ten cancers in Al Basra, Iraq, 2018

Top Ten		No.	%
1	Breast	512	22.12
2	Leukemia	176	7.60
3	Bronchus & Lung	171	7.39
4	Urinary Bladder	130	5.62
5	Brain & CNS Tumor	127	5.49
6	Colorectal	118	5.10
7	Non-Hodgkin Lymphoma	102	4.41
8	Prostate	63	2.72
9	Unknown Primary Site	62	2.68
10	Pancreas	61	2.63
Total Top Ten		1522	65.75
Total other Site		793	34.25
Total		2,315	100.00%

Figure No.; (38) Incidence rate of top ten cancers in Al Basra /100,000 Al Basra populations, Iraq, 2018



Prostate incidence rate calculated from the male populations.

Table No.; (51) Distribution of top ten cancers in males, Al Basra, Iraq, 2018

Top Ten		No.	%
1	Bronchus & Lung	132	12.92
2	Leukemia	104	10.18
3	Urinary Bladder	98	9.59
4	Brain & CNS Tumor	71	6.95
5	Prostate	63	6.16
6	Colorectal	62	6.07
7	Non-Hodgkin Lymphoma	58	5.68
8	Pancreas	35	3.42
9	Kidney	32	3.13
10	Larynx	29	2.84
Total Top Ten		684	66.93
Total other Site		338	33.07
Total		1,022	100.00%

Figure No.; (39) Incidence rate of top ten cancers in males / 100,000 male populations, Al Basra, Iraq, 2018

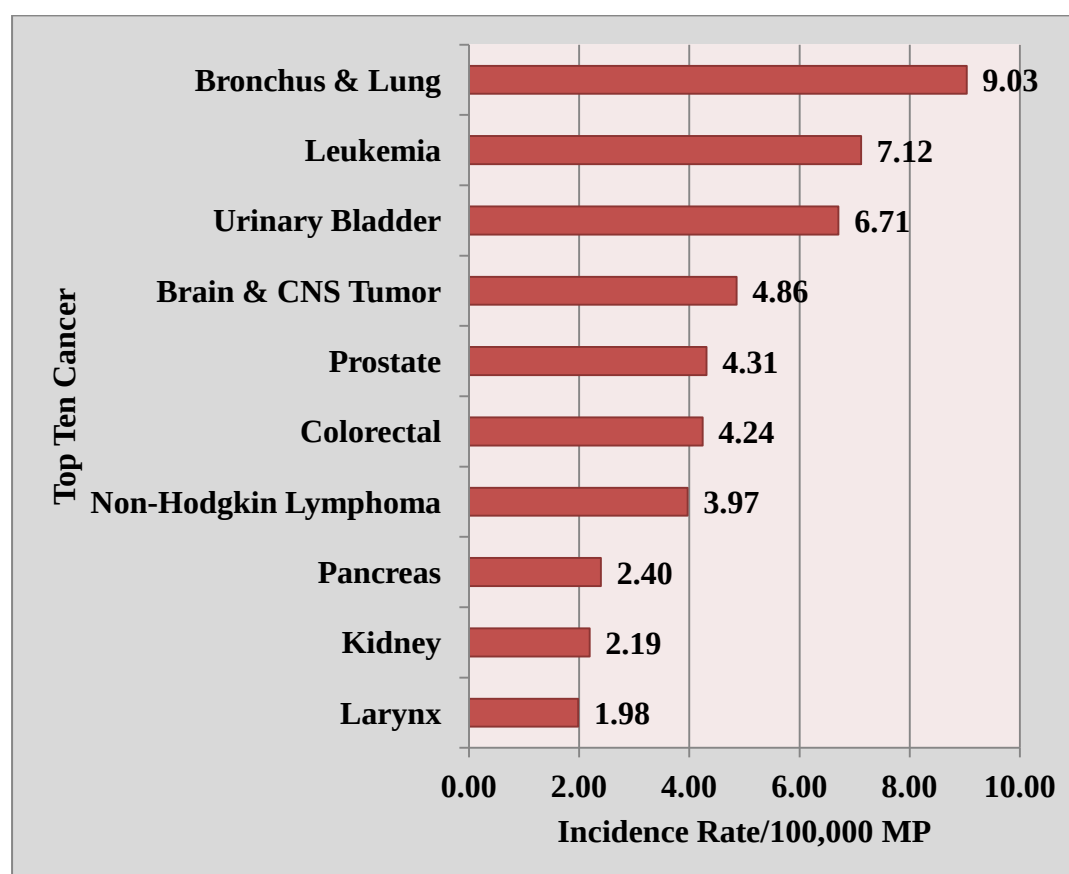


Table No.; (52) Distribution of top ten cancers in females, Al Basra, Iraq, 2018

Top Ten		No.	%
1	Breast	501	38.75
2	Leukemia	72	5.57
3	Brain & CNS Tumor	56	4.33
4	Colorectal	56	4.33
5	Ovary	53	4.10
6	Non-Hodgkin Lymphoma	44	3.40
7	Thyroid Gland	43	3.33
8	Uterus Unspecified	42	3.25
9	Bronchus & Lung	39	3.02
10	Unknown Primary Site	35	2.71
Total Top Ten		941	72.78
Total other Site		352	27.22
Total		1293	100.00%

Figure No.; (40) Incidence rate of top ten cancers in females / 100,000 female populations, Al Basra, Iraq, 2018

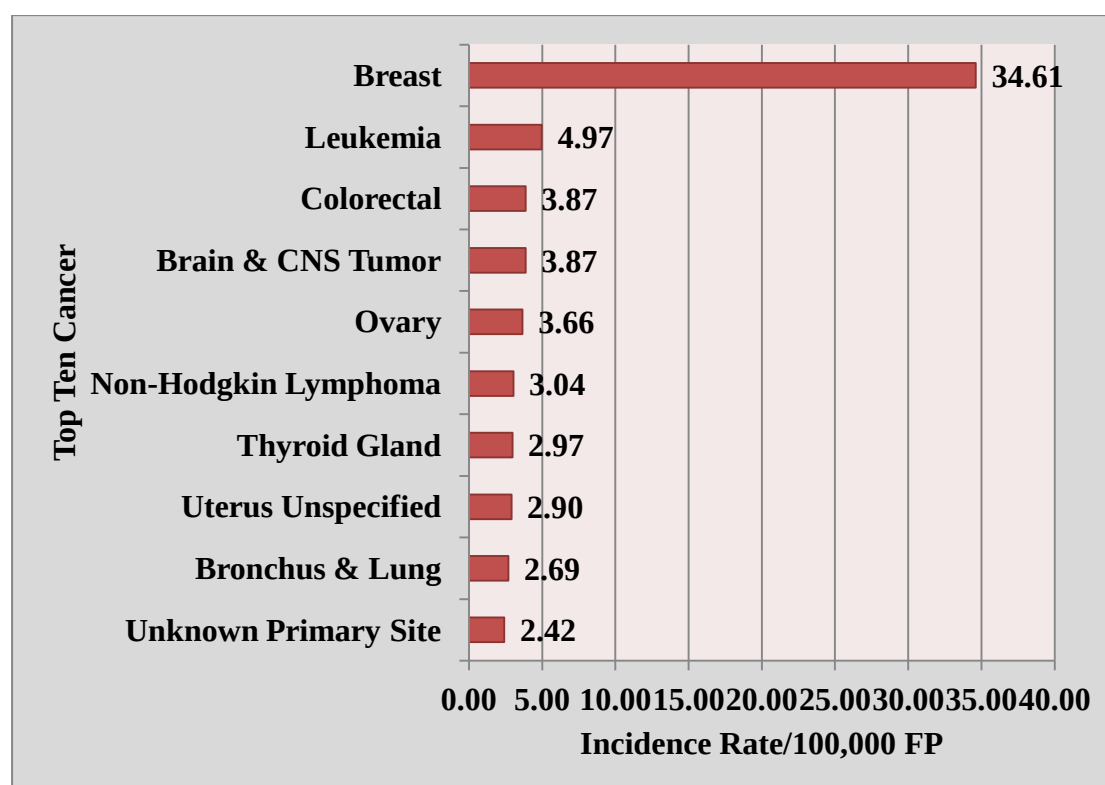
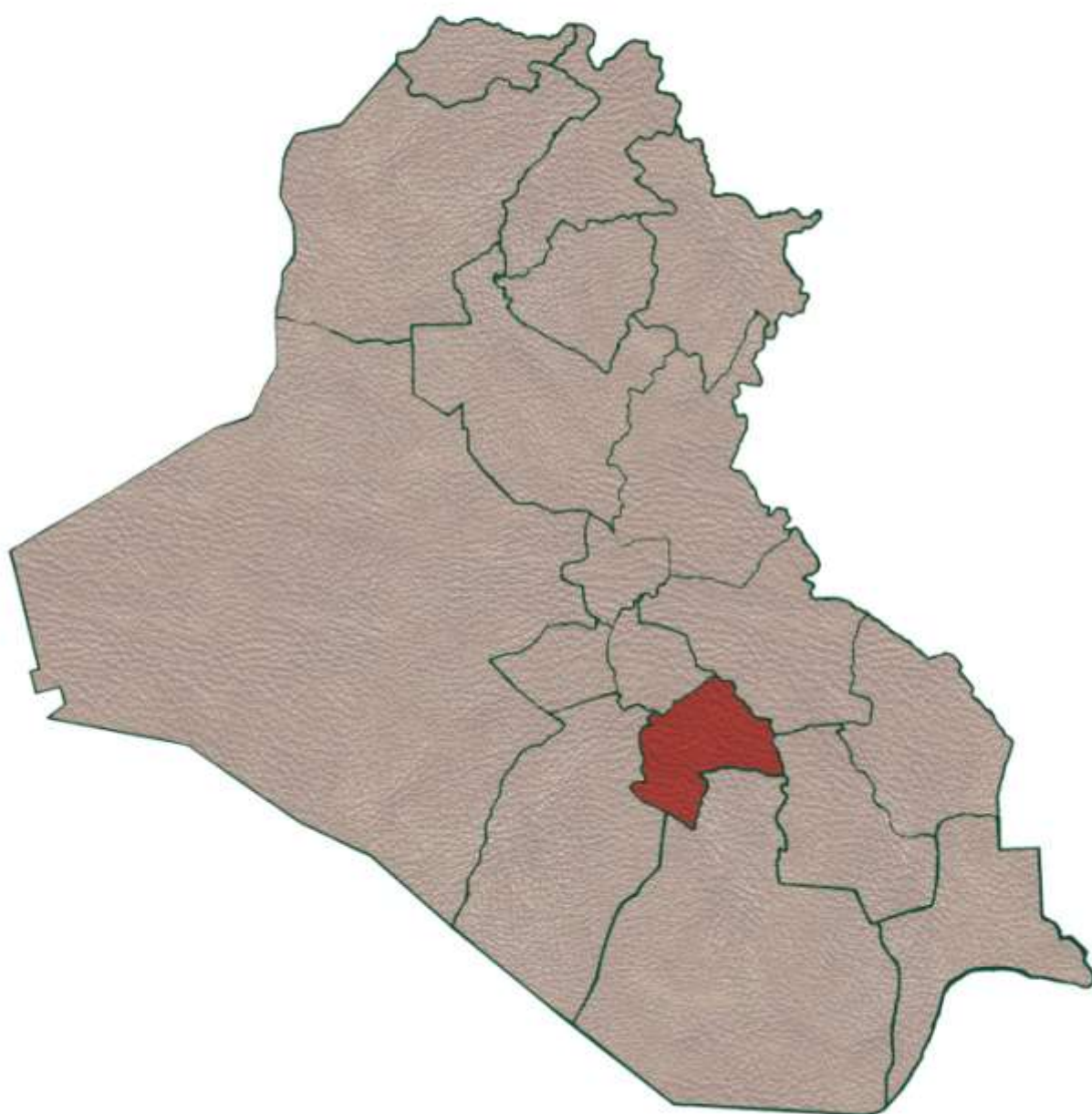


Table No.; (53) Distribution and incidence rate of top ten cancers in Al Basra by districts /100,000 Al Basra population, Iraq, 2018

Top Ten	Abu Alkhasseb		Al Basra		Al Qoorna		Al Zubair		Alfaw		Almdainah		Shatt Alarab		Total	
	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR
Breast	38	16.99	336	23.39	27	9.44	57	11.15	1	2.37	28	11.93	25	14.34	512	17.60
Leukemia	12	5.36	98	6.82	13	4.54	22	4.30	2	4.73	16	6.82	13	7.46	176	6.05
Bronchus & Lung	15	6.71	80	5.57	15	5.24	38	7.43	1	2.37	12	5.11	10	5.73	171	5.88
Urinary Bladder	11	4.92	79	5.50	7	2.45	15	2.93	1	2.37	12	5.11	5	2.87	130	4.47
Brain & CNS Tumor	9	4.02	69	4.80	12	4.19	20	3.91	4	9.47	7	2.98	6	3.44	127	4.37
Colorectal	8	3.58	74	5.15	9	3.15	9	1.76	1	2.37	6	2.56	11	6.31	118	4.06
Non-Hodgkin Lymphoma	3	1.34	62	4.32	9	3.15	15	2.93	2	4.73	6	2.56	5	2.87	102	3.51
Prostate	4	0.27	40	2.74	4	0.27	3	0.21	0	0.00	5	0.34	7	0.48	63	4.31
Unknown Primary Site	2	0.89	40	2.79	4	1.40	6	1.17	1	2.37	4	1.70	5	2.87	62	2.13
Pancreas	7	6.02	39	5.39	3	2.09	8	3.11	0	0.00	3	2.55	1	1.14	61	4.17
Total	109	48.73	917	63.85	103	36.00	193	37.75	13	30.77	99	42.19	88	50.47	1522	52.33
Percentage	7.16	---	60.25	---	6.77	---	12.68	---	0.85	---	6.50	---	5.78	---	100%	---

Al Diwanyia
Populations Number : 1,291,048
Cancer Cases Number :995
Incidence Rate: 77.07/100,000 Al Diwanyia Populations

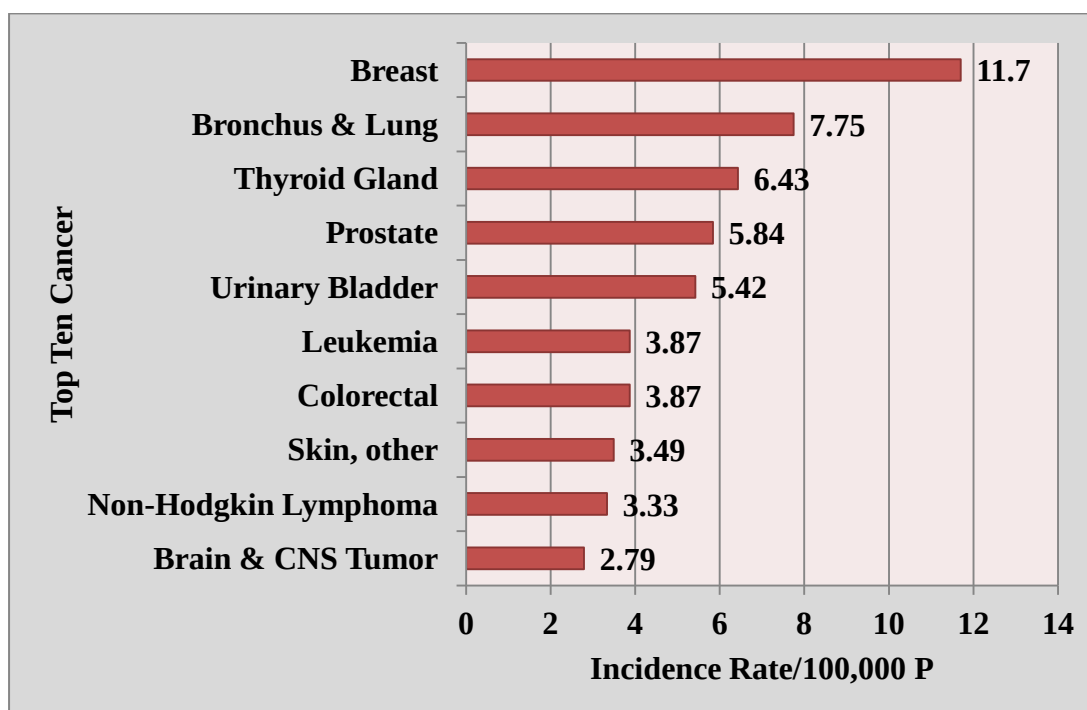


3.4.10. Al Diwanyia governorate

Table No.; (54) Distribution of top ten cancers in Al Diwanyia, Iraq, 2018

Top Ten		No.	%
1	Breast	151	15.18
2	Bronchus & Lung	100	10.05
3	Thyroid Gland	83	8.34
4	Urinary Bladder	70	7.04
5	Leukemia	50	5.03
6	Colorectal	50	5.03
7	Skin, other	45	4.52
8	Non-Hodgkin Lymphoma	43	4.32
9	Prostate	38	3.82
10	Brain & CNS Tumor	36	3.62
Total Top Ten		666	66.93
Total other Site		329	33.07
Total		995	100.00%

Figure No.; (41) Incidence rate of top ten cancers in Al Diwanyia /100,000
Al-Diwanyia populations, Iraq, 2018



Prostate incidence rate calculated from the male populations.

Table No.; (55) Distribution of top ten cancers in males, Al Diwanyia, Iraq, 2018

Top Ten		No.	%
1	Bronchus & Lung	67	14.92
2	Urinary Bladder	48	10.69
3	Prostate	38	8.46
4	Skin, other	30	6.68
5	Leukemia	27	6.01
6	Non-Hodgkin Lymphoma	26	5.79
7	Colorectal	25	5.57
8	Thyroid Gland	23	5.12
9	Larynx	22	4.90
10	Brain & CNS Tumor	16	3.56
Total Top Ten		322	71.71
Total other Site		127	28.29
Total		449	100.00%

Figure No.; (42) Incidence rate of top ten cancers in males / 100,000 male populations, Al Diwanyia, Iraq, 2018

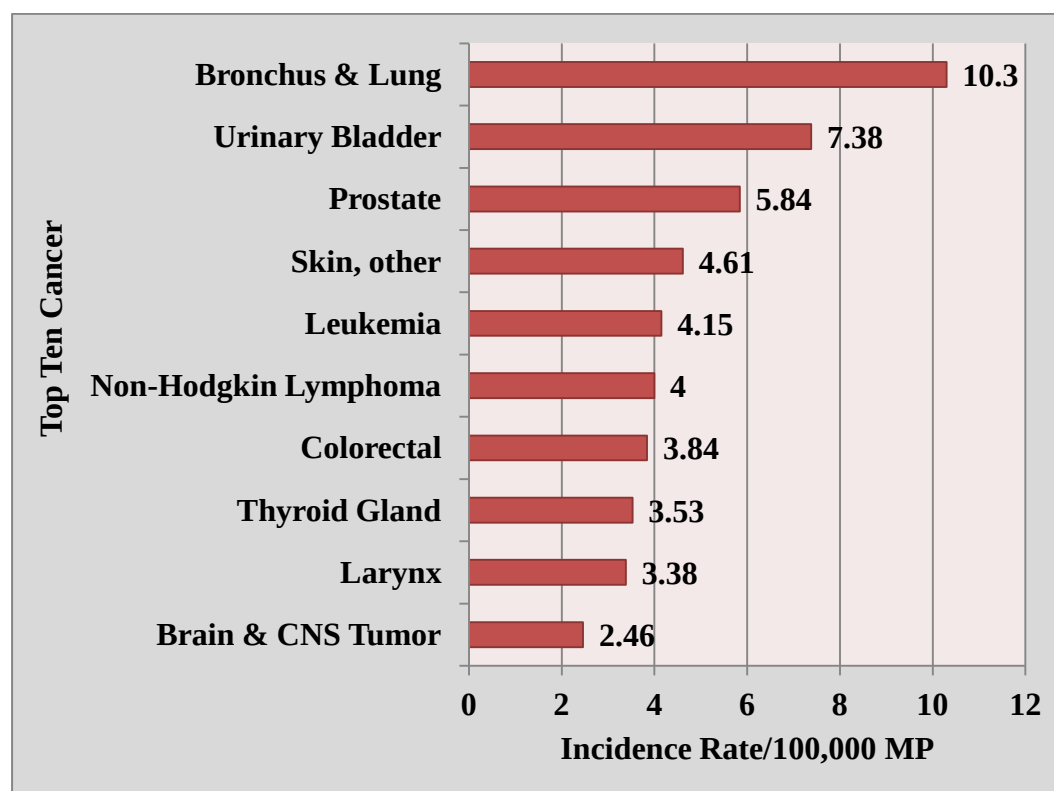


Table No.; (56) Distribution of top ten cancers in females, Al Diwanyia, Iraq, 2018

Top Ten		No.	%
1	Breast	149	27.29
2	Thyroid Gland	60	10.99
3	Bronchus & Lung	33	6.04
4	Uterus Unspecified	26	4.76
5	Colorectal	25	4.58
6	Leukemia	23	4.21
7	Urinary Bladder	22	4.03
8	Ovary	19	3.48
9	Non-Hodgkin Lymphoma	17	3.11
10	Brain & CNS Tumor	15	2.75
Total Top Ten		389	71.25
Total other Site		157	28.75
Total		546	100.00%

Figure No.; (43) Incidence rate of top ten cancers in females / 100,000 female populations, Al Diwanyia, Iraq, 2018

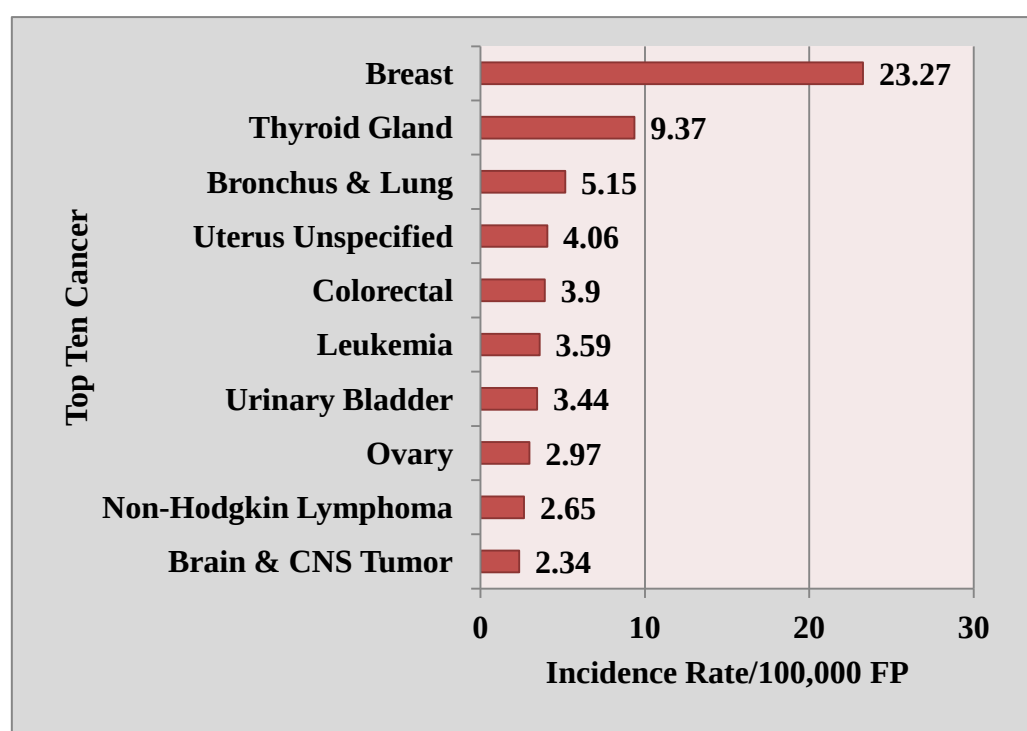
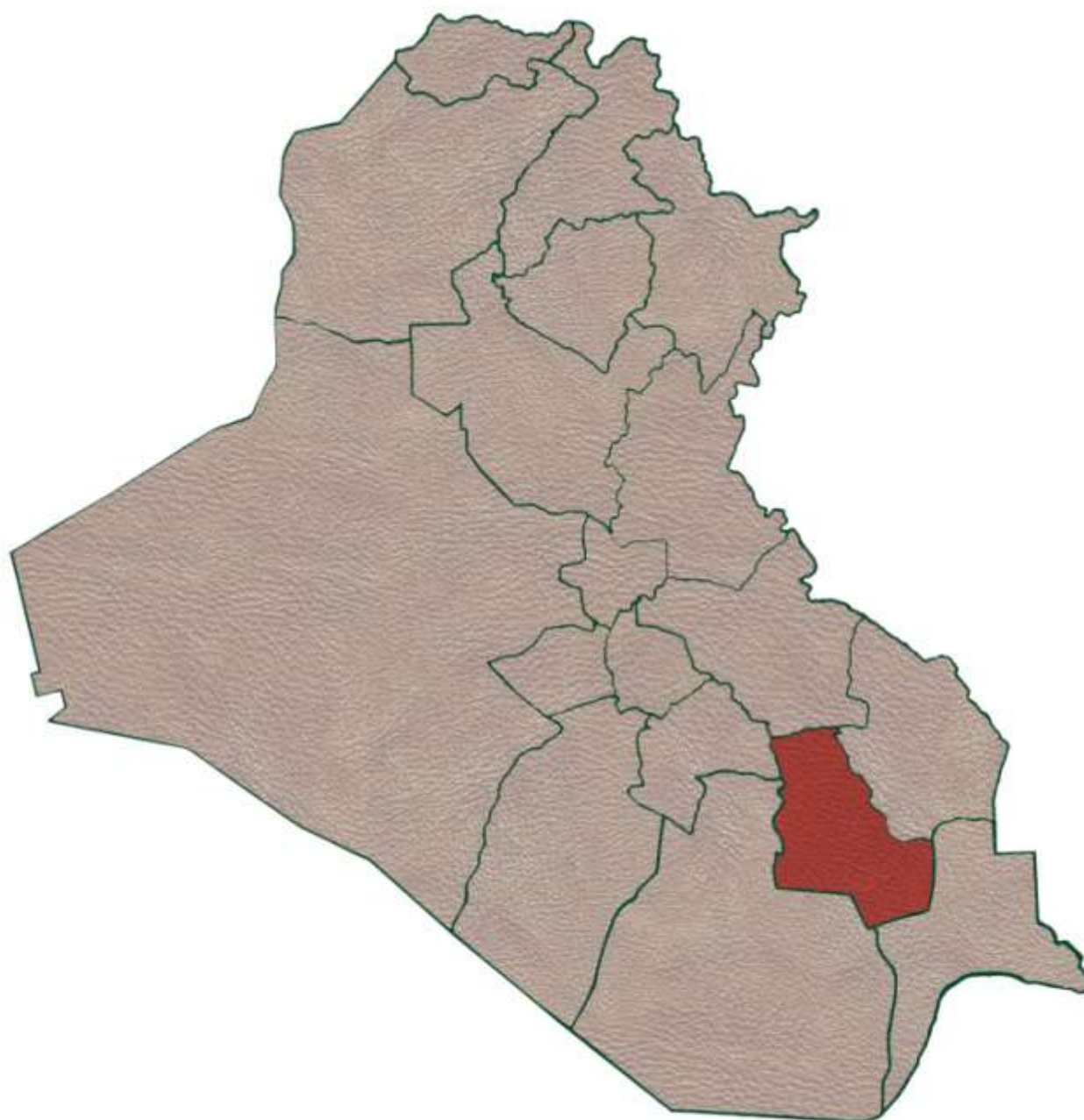


Table No.; (57) Distribution and incidence rate of top ten cancers in Al Diwanyia by districts /100,000 Al Diwanyia populations, Iraq, 2018

Top Ten	Affak		Al Diwanyia		Al Hamza		Al Shamiah		Total	
	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR
Breast	16	8.87	103	17.10	12	5.11	20	7.32	151	11.70
Bronchus & Lung	11	6.10	61	10.13	10	4.26	18	6.59	100	7.75
Thyroid Gland	11	6.10	56	9.30	9	3.83	7	2.56	83	6.43
Urinary Bladder	6	3.32	48	7.97	5	2.13	11	4.03	70	5.42
Colorectal	4	2.22	41	6.81	1	0.43	4	1.46	50	3.87
Leukemia	7	3.88	32	5.31	7	2.98	4	1.46	50	3.87
Skin, other	2	1.11	33	5.48	6	2.55	4	1.46	45	3.49
Non-Hodgkin Lymphoma	4	2.22	28	4.65	4	1.70	7	2.56	43	3.33
Prostate	7	7.69	22	7.24	5	4.22	4	2.90	38	5.83
Brain & CNS Tumor	3	1.66	22	3.65	4	1.70	7	2.56	36	2.79
Total	71	39.34	446	74.03	63	26.82	86	31.47	666	51.59
Percentage	10.66	---	66.97	---	9.46	---	12.91	---	100.00%	---

Thi Qar
Populations Number : 2,095,172
Cancer Cases Number :1541
Incidence Rate: 73.55 / 100,000 Thi QarPopulations



3.4.11. ThiQar governorate

Table No.; (58) Distribution of top ten cancers in ThiQar, Iraq, 2018

Top Ten		No.	%
1	Breast	206	13.37
2	Bronchus & Lung	167	10.84
3	Leukemia	134	8.70
4	Urinary Bladder	104	6.75
5	Colorectal	83	5.39
6	Brain & CNS Tumor	82	5.32
7	Hodgkin Lymphoma	76	4.93
8	Thyroid Gland	59	3.83
9	Liver	51	3.31
10	Pancreas	50	3.24
Total Top Ten		1,012	65.67
Total other Site		529	34.33
Total		1,541	100.00%

Figure No.; (44) Incidence rate of top ten cancers in ThiQar /100,000 ThiQar populations, Iraq, 2018

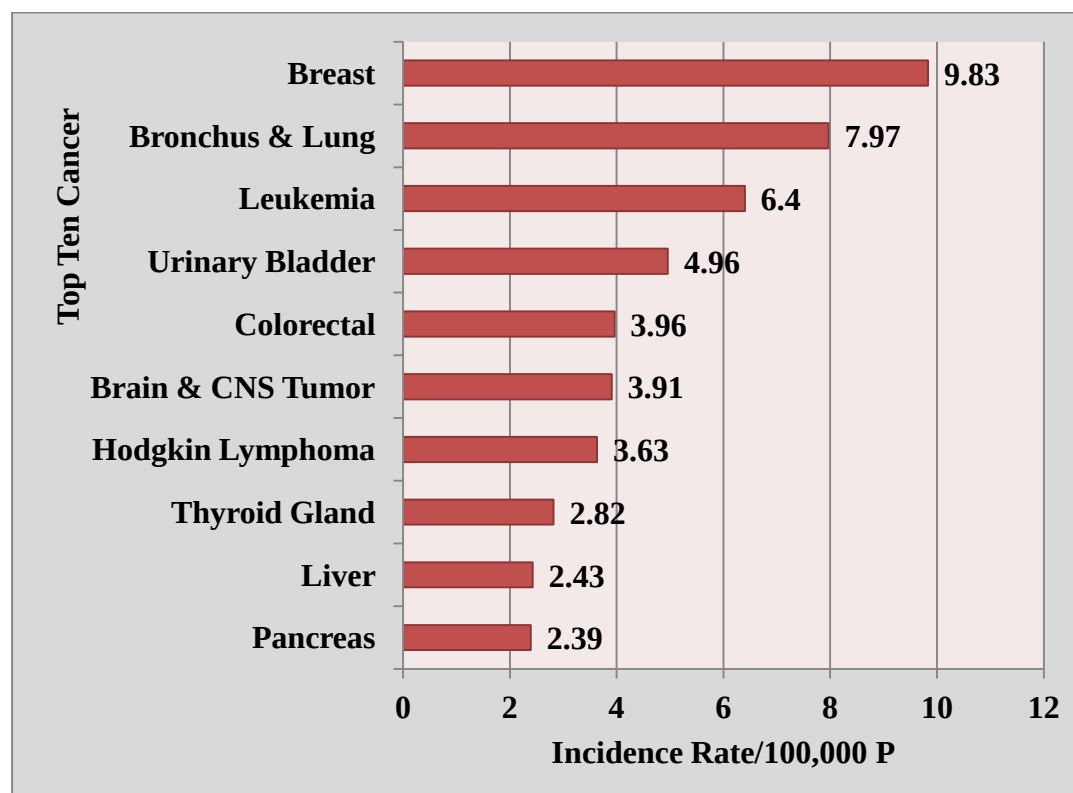


Table No.; (59) Distribution of top ten cancers in males, ThiQar, Iraq, 2018

Top Ten		No.	%
1	Bronchus & Lung	107	14.52
2	Urinary Bladder	77	10.45
3	Leukemia	68	9.23
4	Prostate	45	6.11
5	Colorectal	44	5.97
6	Brain & CNS Tumor	43	5.83
7	Hodgkin Lymphoma	35	4.75
8	Non-Hodgkin Lymphoma	29	3.93
9	Liver	26	3.53
10	Pancreas	26	3.53
Total Top Ten		500	67.84
Total other Site		237	32.16
Total		737	100.00%

Figure No.; (45) Incidence rate of top ten cancers in males / 100,000 male populations, ThiQar, Iraq, 2018

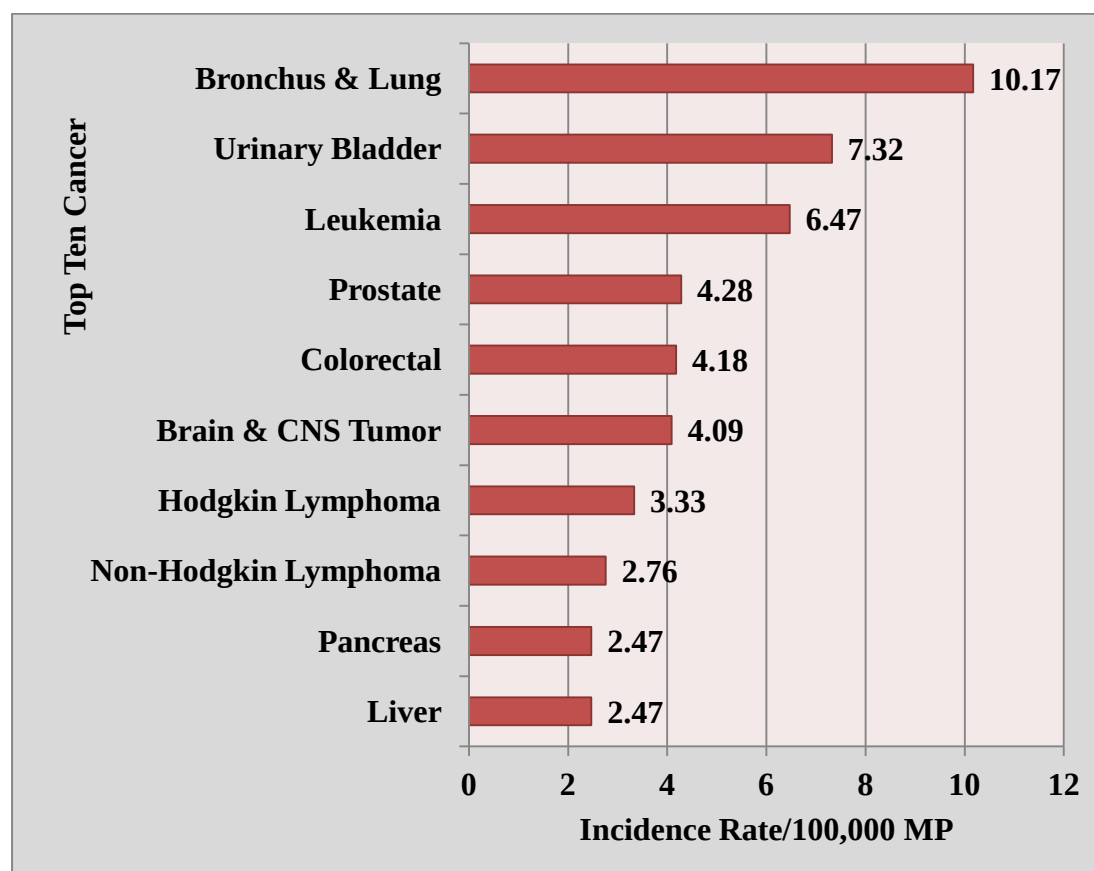


Table No.; (60) Distribution of top ten cancers in females, ThiQar, Iraq, 2018

Top Ten		No.	%
1	Breast	200	24.88
2	Leukemia	66	8.21
3	Bronchus & Lung	60	7.46
4	Thyroid Gland	48	5.97
5	Hodgkin Lymphoma	41	5.10
6	Colorectal	39	4.85
7	Brain & CNS Tumor	39	4.85
8	Urinary Bladder	27	3.36
9	Liver	25	3.11
10	Pancreas	24	2.99
Total Top Ten		569	70.77
Total other Site		235	29.23
Total		804	100.00%

Figure No.; (46) Incidence rate of top ten cancers in females / 100,000 female populations, ThiQar, Iraq, 2018

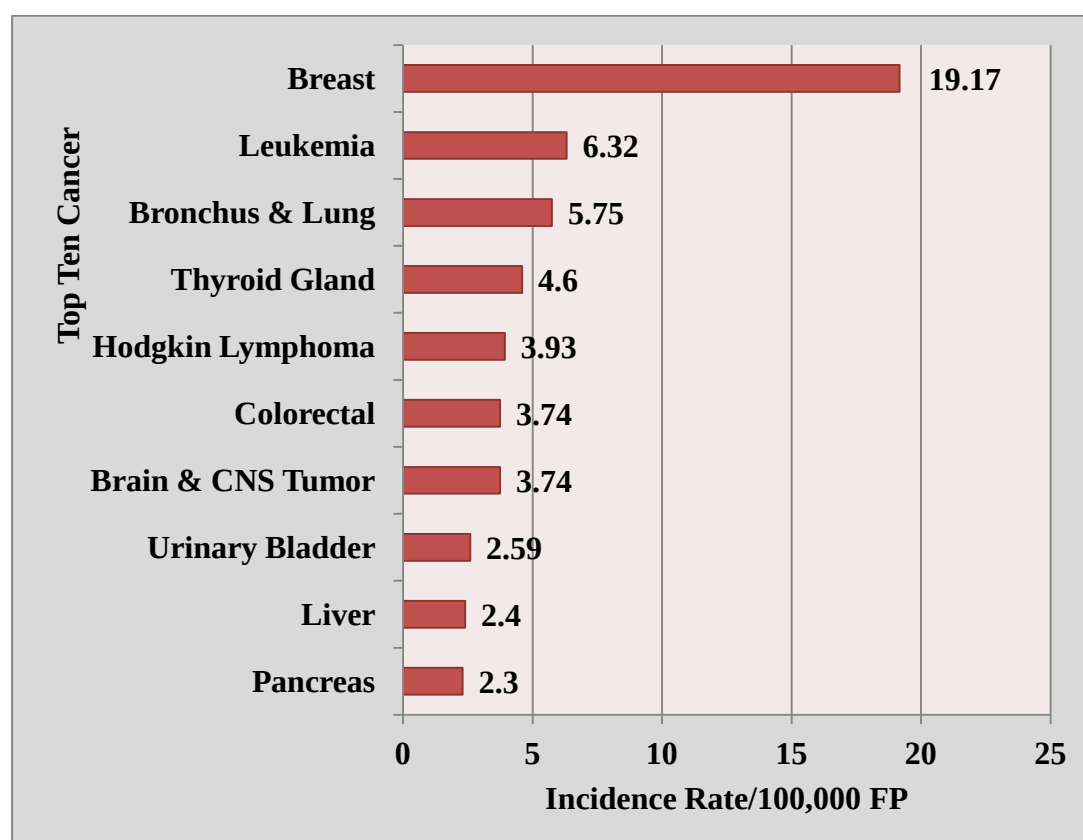


Table No.; (61) Distribution and incidence rate of top ten cancers in ThiQar by districts /100,000 ThiQar populations, Iraq, 2018

Top Ten	Al Jabaish		Al Nassiryiah		Al Riffaey		Al Shattrra		Sook Al Shiookh		Total	
	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR
Breast	4	7.25	103	15.32	26	9.8	45	12.09	28	8.76	206	9.83
Bronchus & Lung	6	10.88	89	13.24	29	10.93	24	6.45	19	5.95	167	7.97
Leukemia	3	5.44	67	9.97	16	6.03	28	7.52	20	6.26	134	6.40
Urinary Bladder	1	1.81	56	8.33	17	6.41	22	5.91	8	2.50	104	4.96
Colorectal	3	5.44	39	5.80	15	5.65	17	4.57	9	2.82	83	3.96
Brain & CNS Tumor	5	9.07	45	6.69	14	5.28	12	3.22	6	1.88	82	3.91
Hodgkin Lymphoma	1	1.81	45	6.69	11	4.15	11	2.96	8	2.50	76	3.63
Thyroid Gland	1	1.81	29	4.31	9	3.39	12	3.22	8	2.50	59	2.82
Liver	3	5.44	21	3.12	12	4.52	7	1.88	8	2.50	51	2.43
Pancreas	2	3.63	24	3.57	10	3.77	10	2.69	4	1.25	50	2.39
Total	29	52.58	518	77.05	159	59.92	188	50.51	118	36.94	1012	48.30
Percentage	2.87	---	51.19	---	15.71	---	18.58	---	11.66	---	100.00%	---

Babil
Populations Number : 2,065,042
Cancer Cases Number :1459
Incidence Rate: 70.65/100,000 Babil Populations

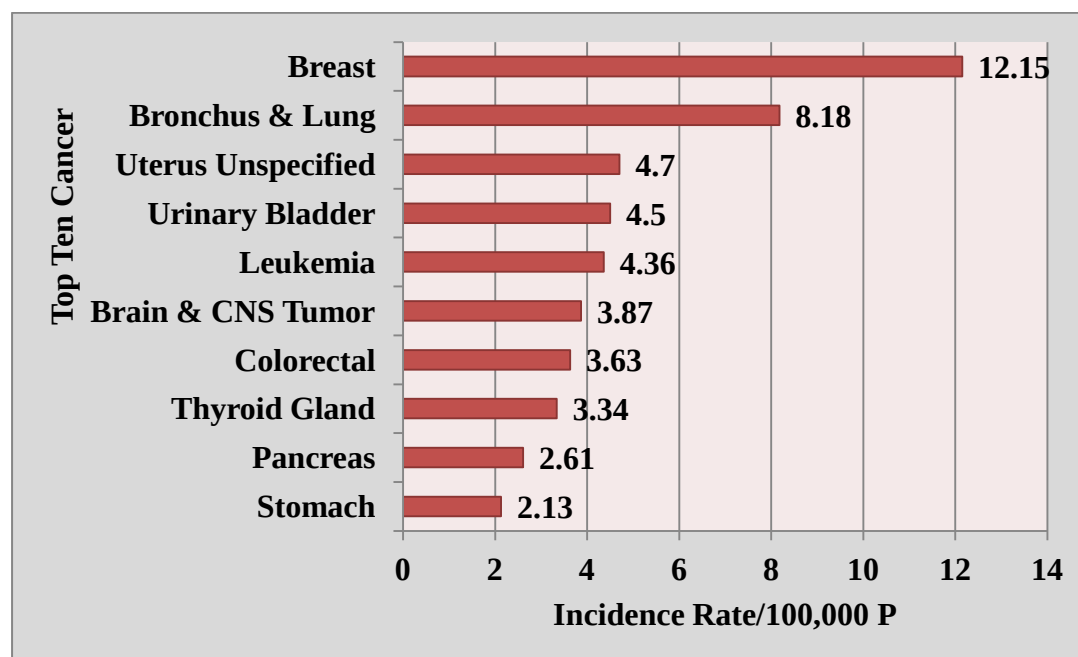


3.4.12. Babil governorate

Table No.; (62) Distribution of top ten cancers in Babil, Iraq, 2018

Top Ten		No.	%
1	Breast	251	17.20
2	Bronchus & Lung	169	11.58
3	Urinary Bladder	93	6.37
4	Leukemia	90	6.17
5	Brain & CNS Tumor	80	5.48
6	Colorectal	75	5.14
7	Thyroid Gland	69	4.73
8	Pancreas	54	3.70
9	Uterus Unspecified	48	3.29
10	Stomach	44	3.02
Total Top Ten		973	66.69
Total other Site		486	33.31
Total		1,459	100.00%

Figure No.; (47) Incidence rate of top ten cancer in Babil /100,000 Babil populations, Iraq, 2018



Uterus unspecified incidence rate calculated from the female population.

Table No.; (63) Distribution of top ten cancers in males, Babil, Iraq, 2018

Top Ten		No.	No.
1	Bronchus & Lung	113	18.43
2	Urinary Bladder	66	10.77
3	Leukemia	51	8.32
4	Brain & CNS Tumor	42	6.85
5	Prostate	42	6.85
6	Colorectal	33	5.38
7	Pancreas	24	3.92
8	Non-Hodgkin Lymphoma	23	3.75
9	Kidney	19	3.10
10	Liver	19	3.10
Total Top Ten		432	70.47
Total other Site		181	29.53
Total		613	100.00%

Figure No.; (48) Incidence rate of top ten cancers in males / 100,000 male populations, Babil, Iraq, 2018

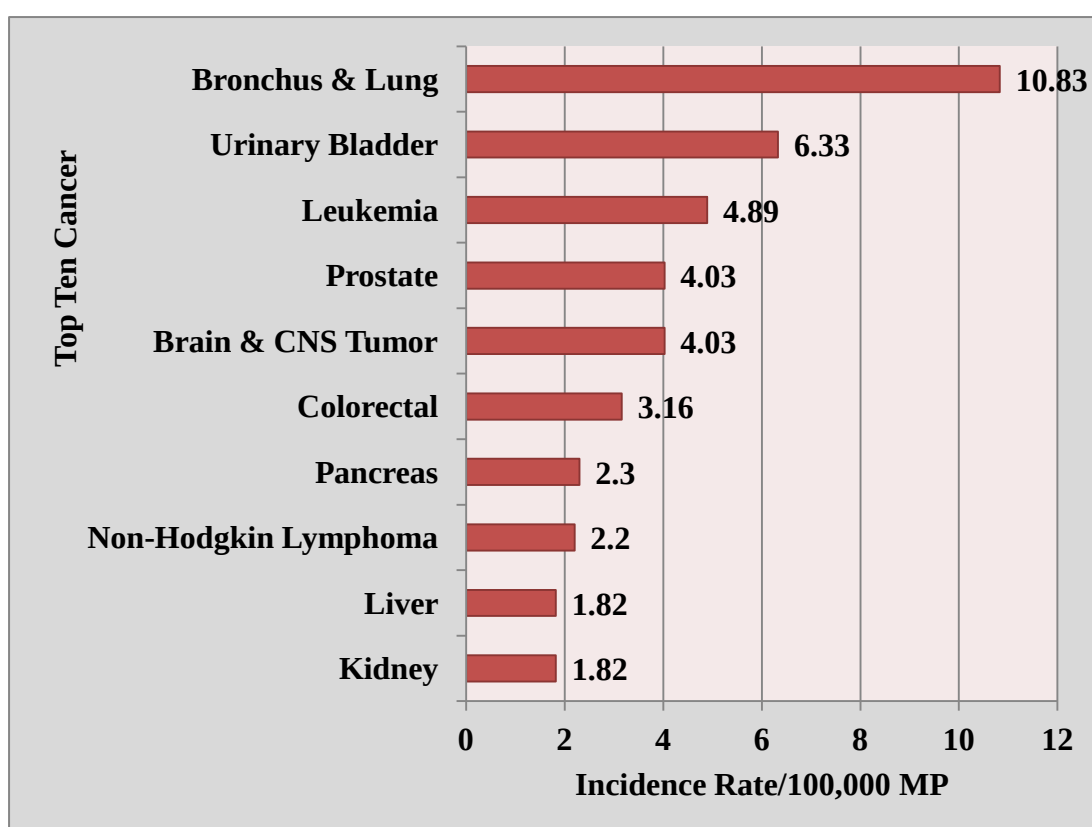


Table No.; (64) Distribution of top ten cancers in females, Babil, Iraq, 2018

Top Ten		No.	No.
1	Breast	248	29.31
2	Bronchus & Lung	56	6.62
3	Thyroid Gland	52	6.15
4	Uterus Unspecified	48	5.67
5	Colorectal	42	4.96
6	Leukemia	39	4.61
7	Brain & CNS Tumor	38	4.49
8	Ovary	38	4.49
9	Pancreas	30	3.55
10	Urinary Bladder	27	3.19
Total Top Ten		618	73.05
Total other Site		228	26.95
Total		846	100.00%

Figure No.; (49) Incidence rate of top ten cancers in females / 100,000 female populations, Babil, Iraq, 2018

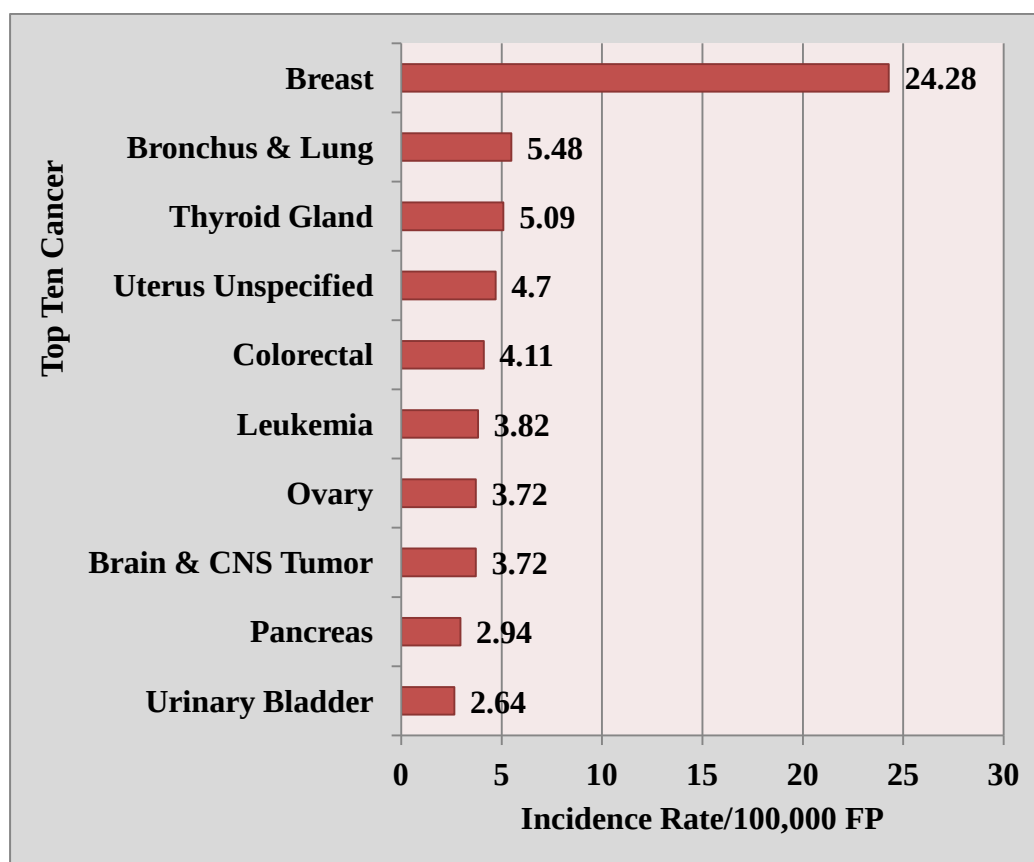
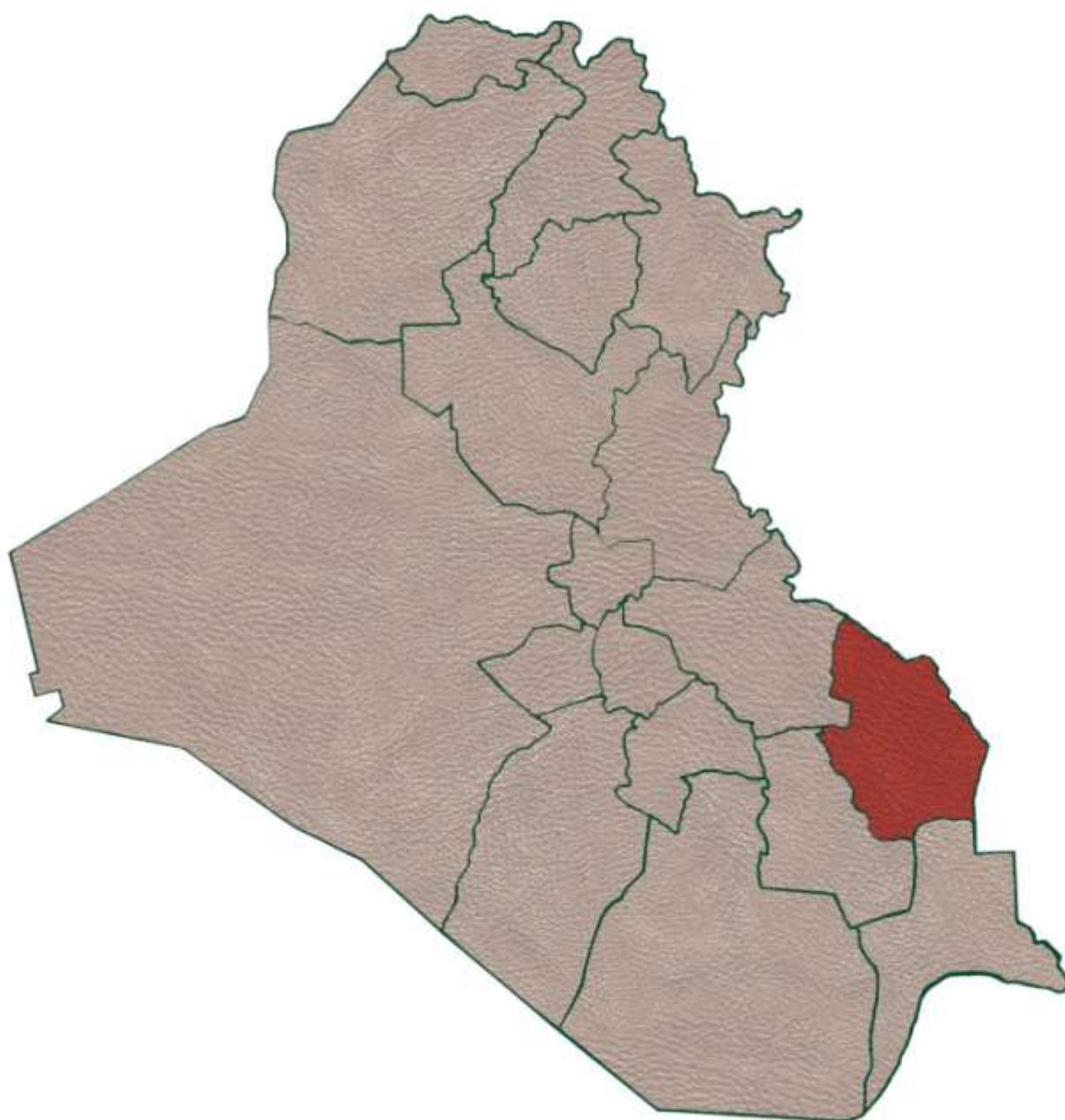


Table No.; (65) Distribution and incidence rate of top ten cancers in Babil by districts /100,000 Babil populations, Iraq, 2018

Top Ten	Al Hashimiah		Al Hilla		Al Mahaweel		Al Missaiab		Total	
	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR
Breast	28	5.88	150	17.83	19	5.37	54	13.72	251	12.15
Bronchus & Lung	33	6.93	83	9.87	32	9.04	21	5.34	169	8.18
Urinary Bladder	13	2.73	55	6.54	13	3.67	12	3.05	93	4.50
Leukemia	15	3.15	52	6.18	13	3.67	10	2.54	90	4.36
Brain & CNS Tumor	11	2.31	51	6.06	8	2.26	10	2.54	80	3.87
Colorectal	11	2.31	46	5.47	9	2.54	9	2.29	75	3.63
Thyroid Gland	9	1.89	39	4.64	11	3.11	10	2.54	69	3.34
Pancreas	10	2.10	27	3.21	7	1.98	10	2.54	54	2.61
Uterus Unspecified	7	2.97	25	6.00	9	5.14	7	3.59	48	4.70
Stomach	5	1.05	22	2.62	11	3.11	6	1.52	44	2.13
Total	142	29.82	550	65.38	132	37.28	149	37.86	973	47.12
Percentage	14.59	---	56.53	---	13.57	---	15.31	---	100.00%	---

Misan
Populations Number : 1,112,673
Cancer Cases Number :772
Incidence Rate:69.38/100,000 Misan Populations

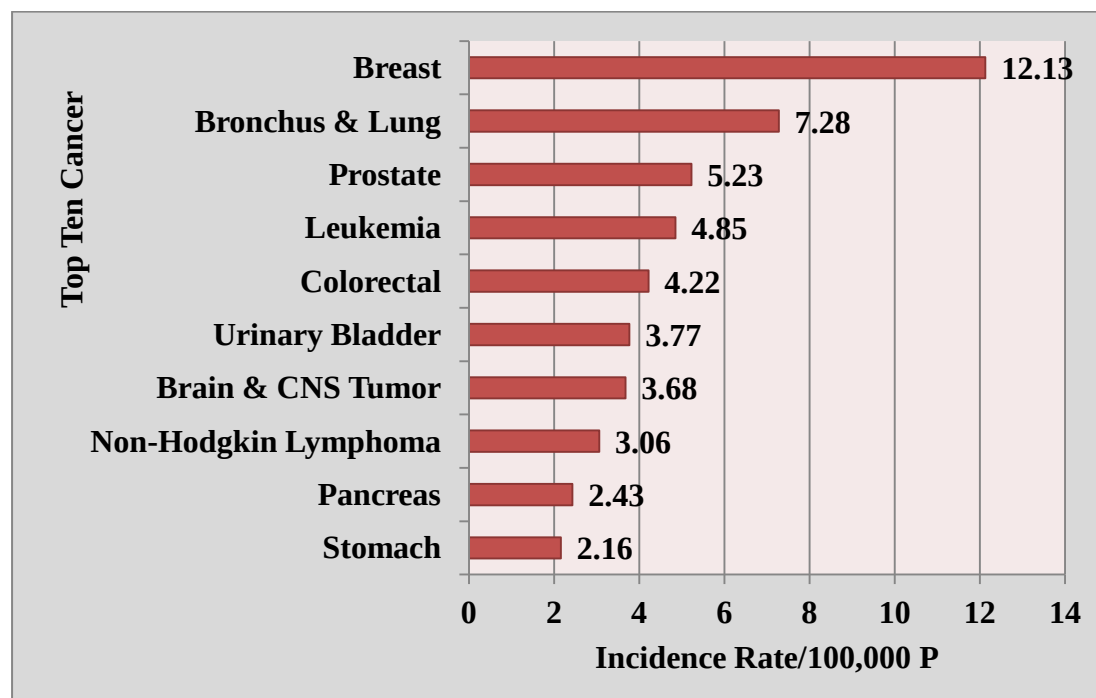


3.4.13. Misan governorate

Table No.; (66) Distribution of top ten cancers in Misan, Iraq, 2018

Top Ten		No.	%
1	Breast	135	17.49
2	Bronchus & Lung	81	10.49
3	Leukemia	54	6.99
4	Colorectal	47	6.09
5	Urinary Bladder	42	5.44
6	Brain & CNS Tumor	41	5.31
7	Non-Hodgkin Lymphoma	34	4.40
8	Prostate	29	3.76
9	Pancreas	27	3.50
10	Stomach	24	3.11
Total Top Ten		514	66.58
Total other Site		258	33.42
Total		772	100.00%

Figure No.; (50) Incidence rate of top ten cancers in Misan /100,000 Misan populations, Iraq, 2018



Prostate incidence rate calculated from the male population.

Table No.; (67) Distribution of top ten cancers in Males, Misan, Iraq, 2018

Top Ten		No.	%
1	Bronchus & Lung	60	16.90
2	Urinary Bladder	37	10.42
3	Prostate	29	8.17
4	Leukemia	23	6.48
5	Colorectal	23	6.48
6	Brain & CNS Tumor	20	5.63
7	Non-Hodgkin Lymphoma	19	5.35
8	Pancreas	17	4.79
9	Kidney	14	3.94
10	Skin, other	12	3.38
Total Top Ten		254	71.55
Total other Site		101	28.45
Total		355	100.00%

Figure No.; (51) Incidence rate of top ten cancers in males / 100,000 male populations, Misan, Iraq, 2018

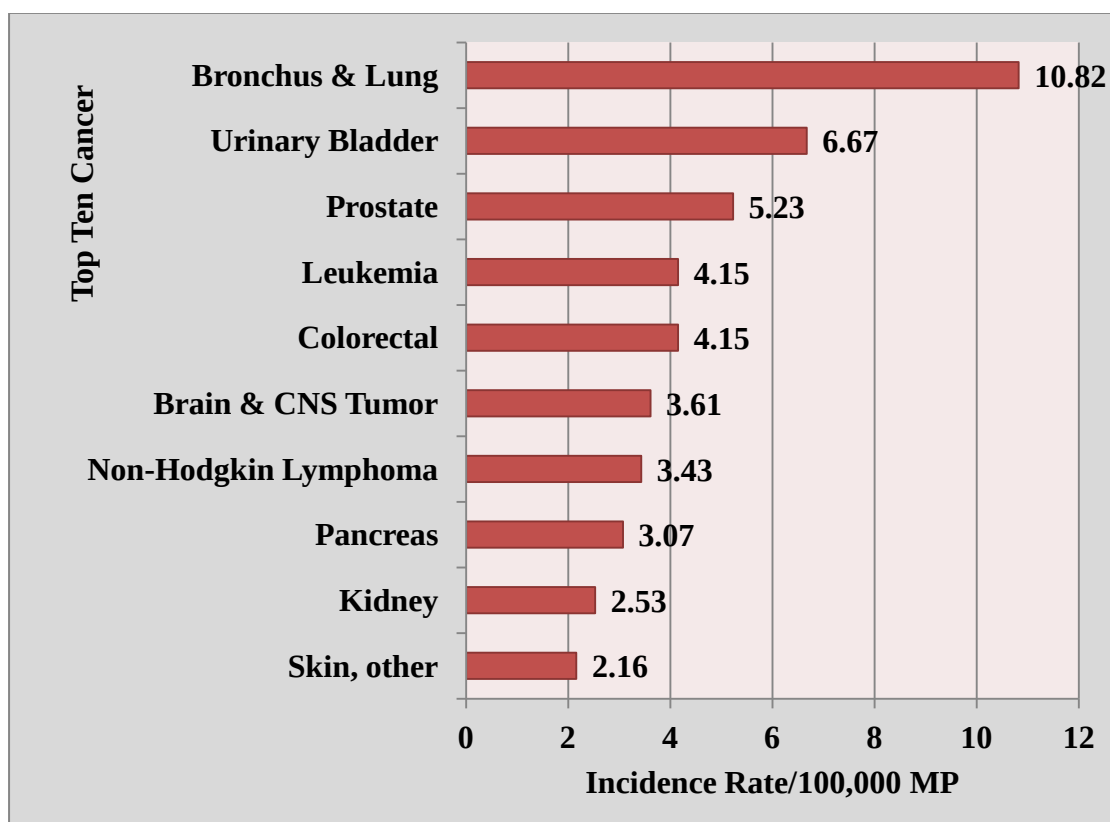


Table No.; (68) Distribution of top ten cancers in females, Misan, Iraq, 2018

Top Ten		No.	%
1	Breast	132	31.65
2	Leukemia	31	7.43
3	Colorectal	24	5.76
4	Bronchus & Lung	21	5.04
5	Brain & CNS Tumor	21	5.04
6	Stomach	17	4.08
7	Unknown Primary Site	16	3.84
8	Ovary	15	3.60
9	Non-Hodgkin Lymphoma	15	3.60
10	Thyroid Gland	12	2.88
Total Top Ten		304	72.90
Total other Site		113	27.10
Total		417	100.00%

Figure No.; (52) Incidence rate of top ten cancers in females / 100,000 female populations, Misan, Iraq, 2018

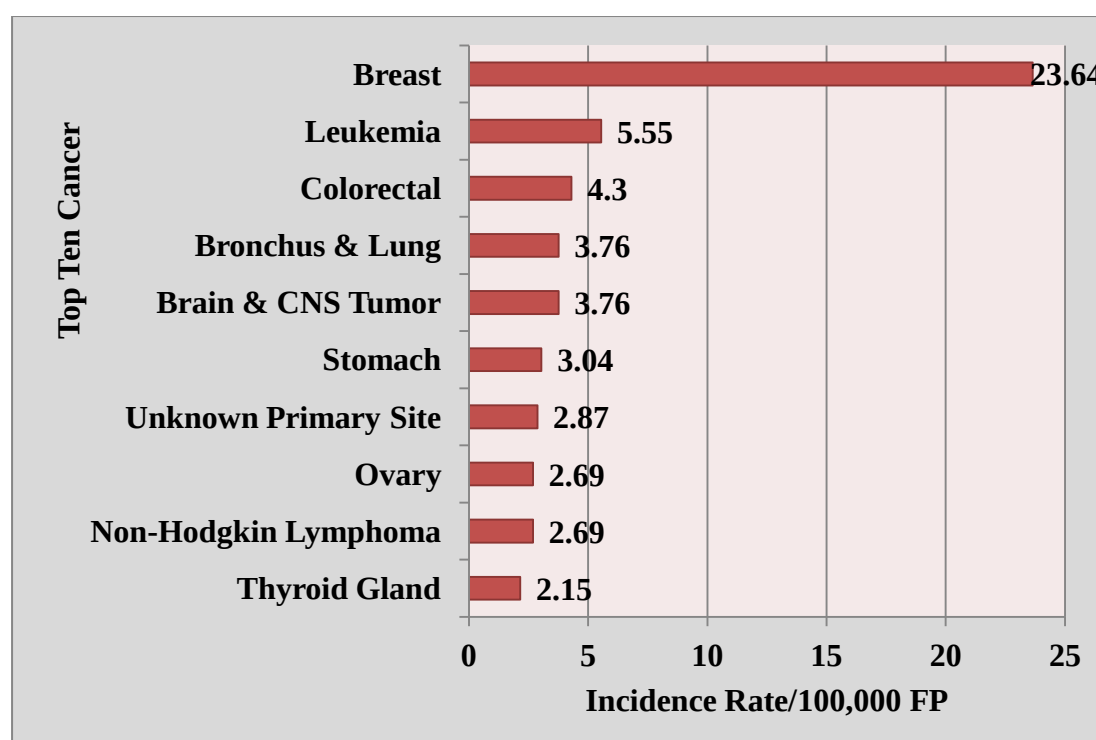
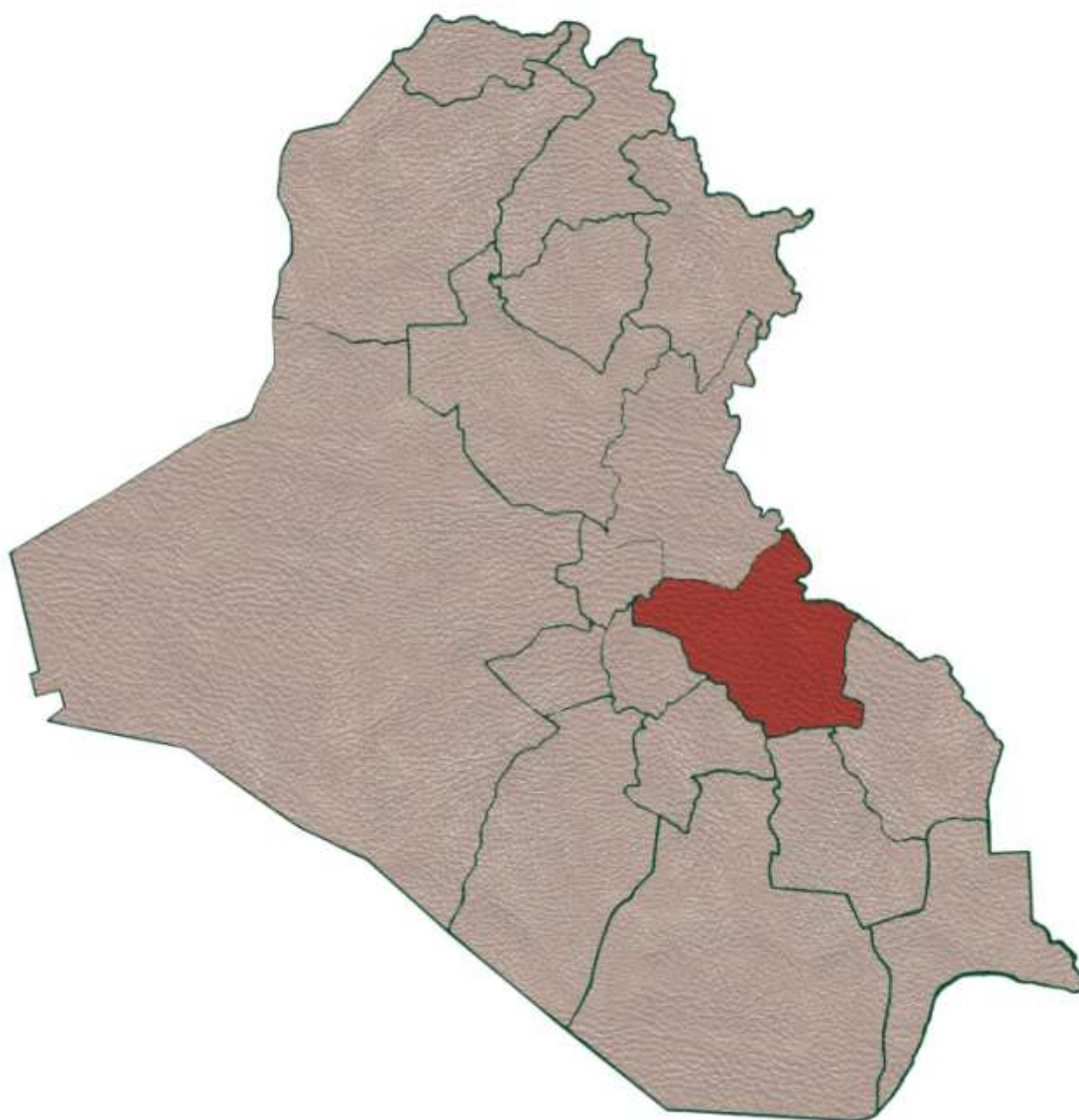


Table No.; (69) Distribution and incidence rate of top ten cancers in Misan by districts /100,000 Misan populations, Iraq, 2018

Top Ten	Al Ammarha		Al Kahlaa		Al Maymoona		Ali Algharbi		Almajar Al Kabeer		Qalat Salih		Total	
	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR
Breast	108	18.02	4	4.49	2	1.92	3	5.65	11	6.91	7	6.48	135	12.13
Bronchus & Lung	56	9.35	3	3.37	1	0.96	5	9.41	14	8.79	2	1.85	81	7.28
Leukemia	38	6.34	1	1.12	1	0.96	3	5.65	6	3.77	4	3.70	54	4.85
Colorectal	34	5.67	1	1.12	4	3.85	0	0.00	5	3.14	2	1.85	47	4.22
Urinary Bladder	35	5.84	1	1.12	4	3.85	1	1.88	1	0.63	0	0.00	42	3.77
Brain & CNS Tumor	27	4.51	3	3.37	1	0.96	2	3.76	6	3.77	2	1.85	41	3.68
Non-Hodgkin Lymphoma	20	3.34	1	1.12	5	4.81	2	3.76	4	2.51	2	1.85	34	3.06
Prostate	21	7.02	1	2.26	2	3.88	2	7.57	2	2.51	1	0.93	29	5.23
Pancreas	15	2.50	0	0.00	3	2.89	1	1.88	6	3.77	2	1.85	27	2.43
Unknown Primary Site	18	3.00	2	2.25	1	0.96	0	0.00	3	1.88	2	1.85	24	2.16
Total	372	62.08	17	19.10	24	23.10	19	35.75	58	36.41	24	22.21	514	46.20
Percentage	72.37	---	3.31	---	4.67	---	3.70	---	11.28	---	4.67	---	100%	---

Wasit
Populations Number : 1,378,723
Cancer Cases Number :927
Incidence Rate: 67.24 / 100,000 wasit Populations



3.4.14. Wasit governorate

Table No.; (70) Distribution of top ten cancers, Wasit, Iraq, 2018

Top Ten		No.	%
1	Breast	174	18.77
2	Leukemia	83	8.95
3	Bronchus & Lung	81	8.74
4	Urinary Bladder	64	6.90
5	Thyroid Gland	46	4.96
6	Non-Hodgkin Lymphoma	44	4.75
7	Colorectal	44	4.75
8	Brain & CNS Tumor	42	4.53
9	Skin, other	40	4.31
10	Liver	36	3.88
Total Top Ten		654	70.55
Total other Site		273	29.45
Total		927	100.00%

Figure No.; (53) Incidence rate of top ten cancers in Wasit /100,000 Wasit populations, Iraq, 2018

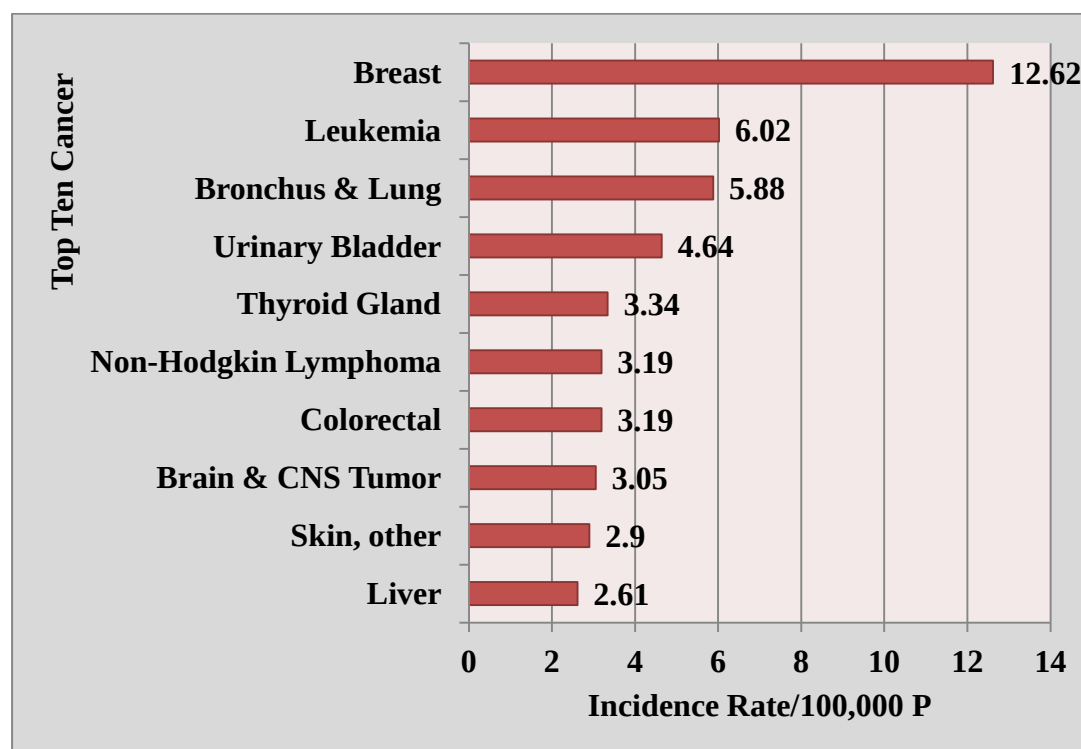


Table No.; (71) Distribution of top ten cancers in males, Wasit, Iraq, 2018

Top Ten		No.	%
1	Bronchus & Lung	49	12.07
2	Urinary Bladder	47	11.58
3	Leukemia	47	11.58
4	Non-Hodgkin Lymphoma	27	6.65
5	Liver	23	5.67
6	Brain & CNS Tumor	23	5.67
7	Prostate	19	4.68
8	Colorectal	19	4.68
9	Skin, other	17	4.19
10	Hodgkin Lymphoma	16	3.94
Total Top Ten		287	70.69
Total other Site		119	29.31
Total		406	100.00%

Figure No.; (54) Incidence rate of top ten cancers in males / 100,000 male populations, Wasit, Iraq, 2018

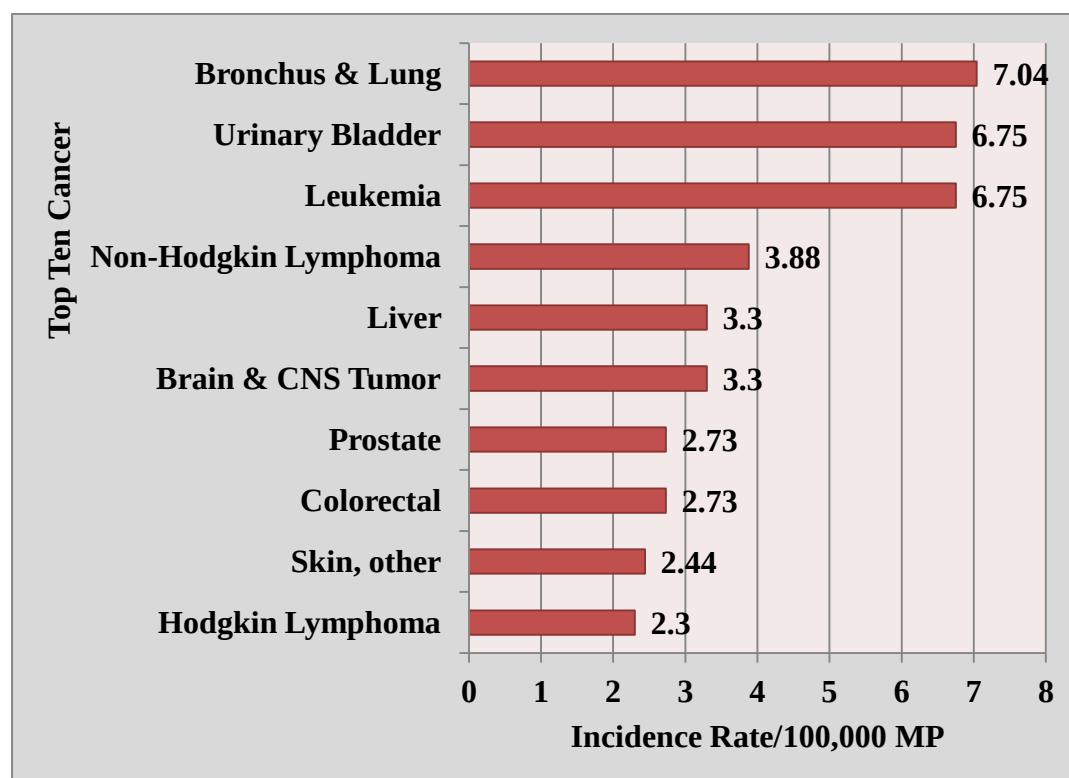


Table No.; (72) Distribution of top ten cancers in females, Wasit, Iraq, 2018

Top Ten		No.	%
1	Breast	172	33.01
2	Leukemia	36	6.91
3	Thyroid Gland	32	6.14
4	Bronchus & Lung	32	6.14
5	Colorectal	25	4.80
6	Skin, other	23	4.41
7	Brain & CNS Tumor	19	3.65
8	Ovary	18	3.45
9	Urinary Bladder	17	3.26
10	Non-Hodgkin Lymphoma	17	3.26
Total Top Ten		391	75.05
Total other Site		130	24.95
Total		521	100.00%

Figure No.; (55) Incidence rate of top ten cancers in females / 100,000 female populations, Wasit, Iraq, 2018

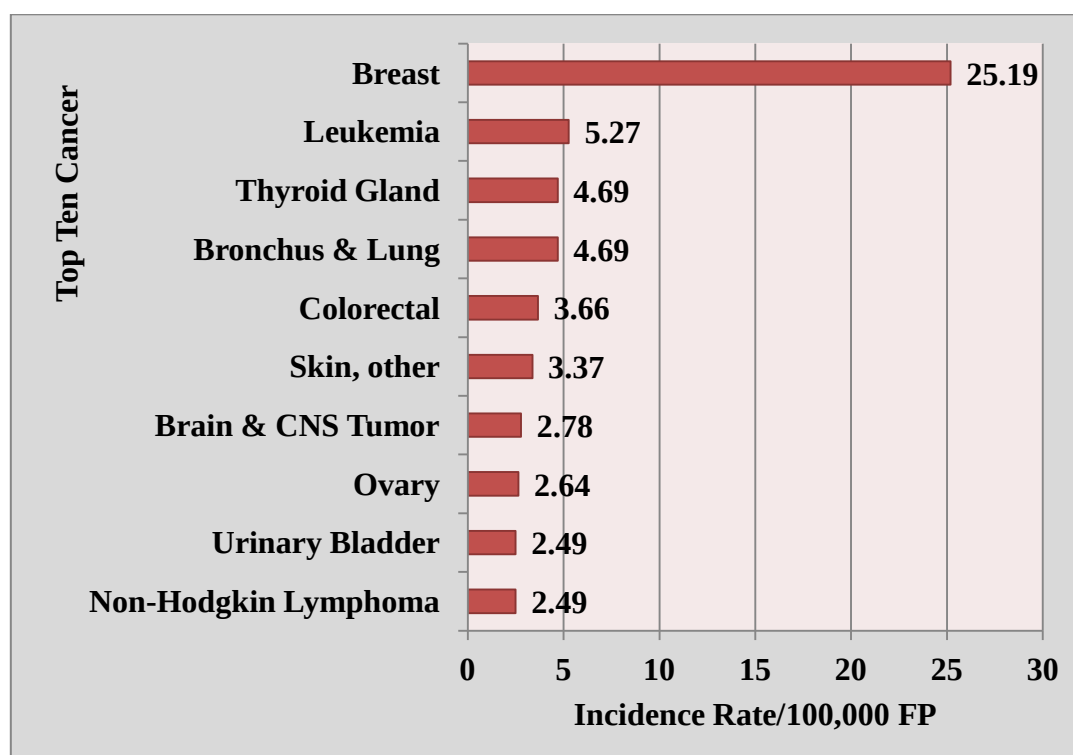


Table No.; (73) Distribution and incidence rate of top ten cancers in Wasit by districts /100,000 Wasit populations, Iraq, 2018

Top Ten	Al Aziziya		Al Hay		Al Kut		Al Numaniah		Al Suarrah		Badra		Total	
	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR
Breast	17	8.17	12	6.39	101	18.65	16	9.33	25	10.39	3	10.37	174	12.62
Leukemia	3	1.44	8	4.26	44	8.12	5	2.92	23	9.56	0	0.00	83	6.02
Bronchus & Lung	9	4.32	4	2.13	48	8.86	6	3.50	12	4.99	2	6.92	81	5.88
Urinary Bladder	3	1.44	3	1.60	43	7.94	2	1.17	12	4.99	1	3.46	64	4.64
Thyroid Gland	8	3.84	6	3.19	24	4.43	1	0.58	7	2.91	0	0.00	46	3.34
Colorectal	4	1.92	5	2.66	21	3.88	4	2.33	10	4.16	0	0.00	44	3.19
Non-Hodgkin Lymphoma	3	1.44	7	3.73	21	3.88	5	2.92	6	2.49	2	6.92	44	3.19
Brain & CNS Tumor	1	0.48	3	1.60	26	4.80	1	0.58	10	4.16	1	3.46	42	3.05
Skin, other	2	0.96	2	1.06	27	4.98	2	1.17	5	2.08	2	6.92	40	2.90
Liver	2	0.96	2	1.06	28	5.17	1	0.58	3	1.25	0	0.00	36	2.61
Total	52	24.99	52	27.67	383	70.71	43	25.07	113	46.96	11	38.04	654	47.44
Percentage	7.95	---	7.95	---	58.56	---	6.57	---	17.28	7.18	---	5.82	100.00%	---

Al Anbar
Populations Number : 1,771,656
Cancer Cases Number : 1111
Incidence Rate: 62.71/ 100,000 Al Anbar Populations

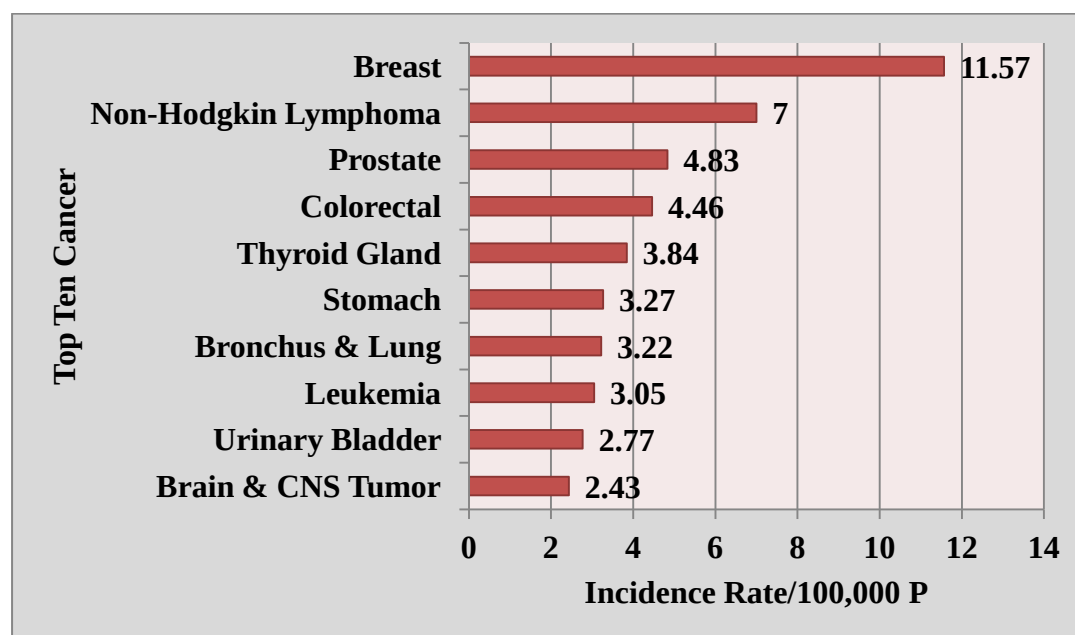


3.4.15. Al Anbar governorate

Table No.; (74) Distribution of top ten cancers in Al Anbar, Iraq, 2018

Top Ten All		No.	%
1	Breast	205	18.45
2	Non-Hodgkin Lymphoma	124	11.16
3	Colorectal	79	7.11
4	Thyroid Gland	68	6.12
5	Stomach	58	5.22
6	Bronchus & Lung	57	5.13
7	Leukemia	54	4.86
8	Urinary Bladder	49	4.41
9	Prostate	44	3.96
10	Brain & CNS Tumor	43	3.87
Total Top Ten		781	70.30
Total other Site		330	29.70
Total		1,111	100.00%

Figure No.; (56) Incidence rate of top ten cancers in Al Anbar /100,000
Al Anbar populations, Iraq, 2018

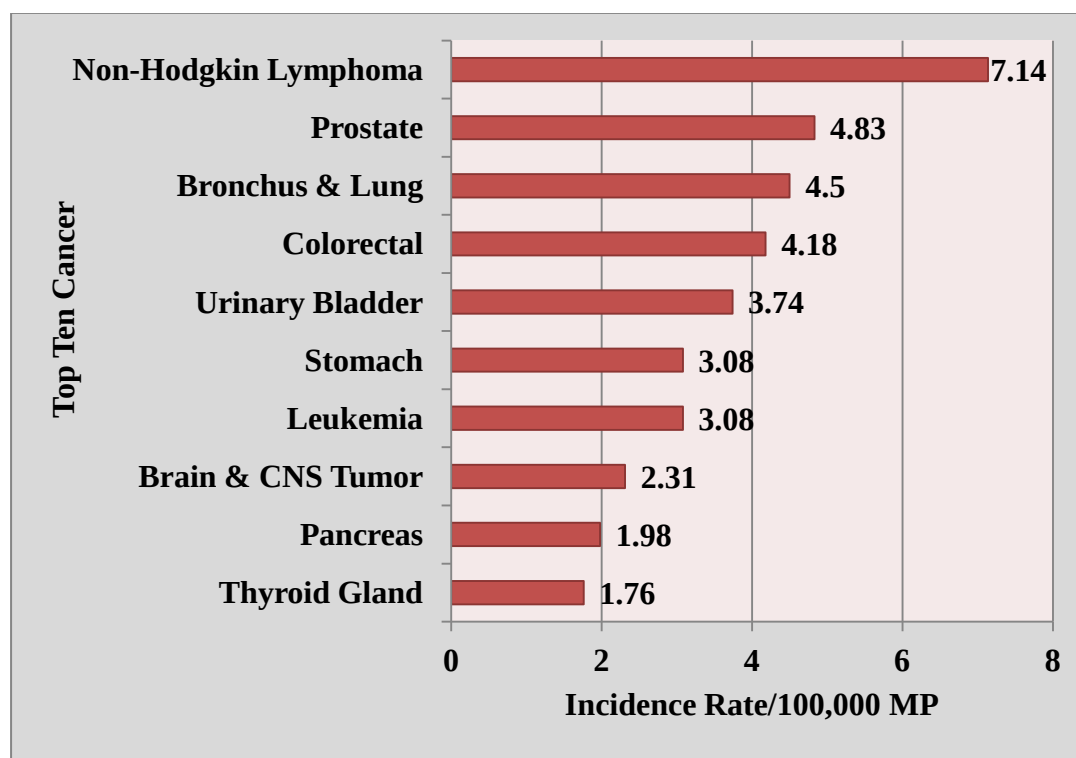


Prostate incidence rate calculated from the male populations.

Table No.; (75) Distribution of top ten cancers in males, Al Anbar, Iraq, 2018

Top Ten		No.	%
1	Non-Hodgkin Lymphoma	65	13.86
2	Prostate	44	9.38
3	Bronchus & Lung	41	8.74
4	Colorectal	38	8.10
5	Urinary Bladder	34	7.25
6	Stomach	28	5.97
7	Leukemia	28	5.97
8	Brain & CNS Tumor	21	4.48
9	Pancreas	18	3.84
10	Thyroid Gland	16	3.41
Total Top Ten		333	71.00
Total other Site		136	29.00
Total		469	100.00%

Figure No.; (57) Incidence rate of top ten cancers in males / 100,000 male populations, Al Anbar, Iraq, 2018



Prostate incidence rate calculated from the male populations.

Table No.; (76) Distribution of top ten cancers in females, Al Anbar, Iraq, 2018

Top Ten		No.	%
1	Breast	205	31.93
2	Non-Hodgkin Lymphoma	59	9.19
3	Thyroid Gland	52	8.10
4	Colorectal	41	6.39
5	Stomach	30	4.67
6	Leukemia	26	4.05
7	Ovary	24	3.74
8	Brain & CNS Tumor	22	3.43
9	Bronchus & Lung	16	2.49
10	Kidney	16	2.49
Total Top Ten		491	76.48
Total other Site		151	23.52
Total		642	100.00%

Figure No.; (58) Incidence rate of top ten cancers in females / 100,000 female populations, Al Anbar, Iraq, 2018

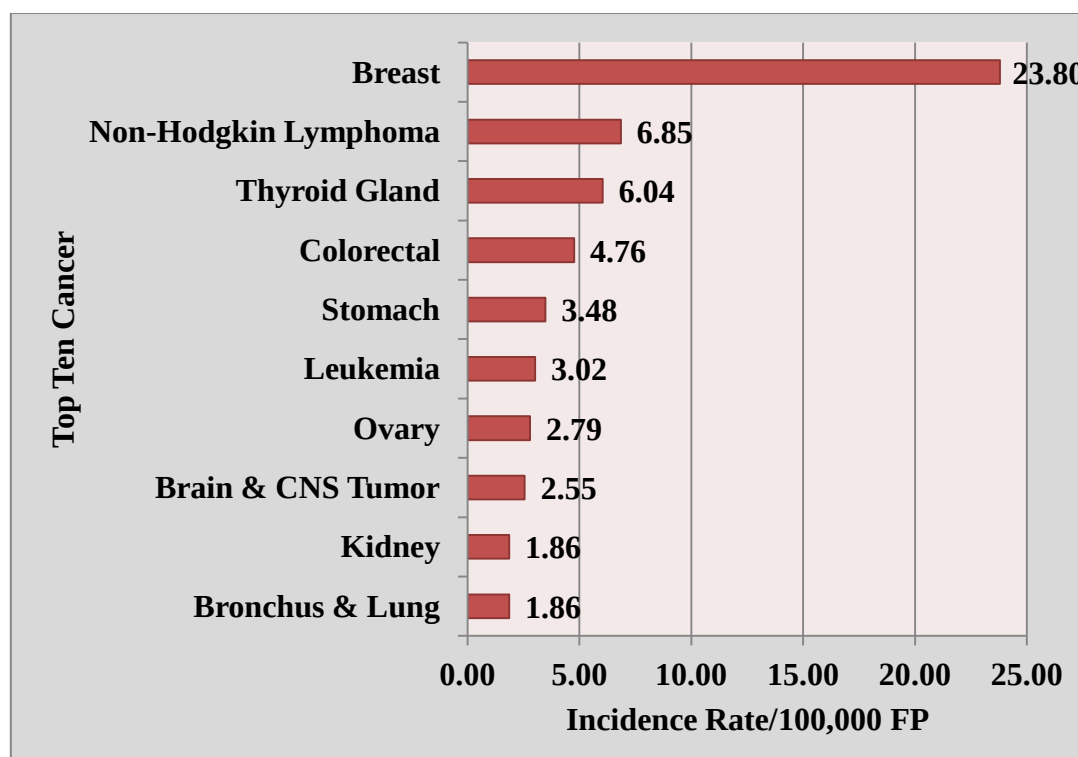


Table No.; (77) Distribution and incidence rate of top ten cancers in Al Anbar by districts /100,000 Al Anbar populations, Iraq, 2018

Top Ten	Aana		Al Falooja		Al Kaaim		Al Ramadi		Al Ruttba		Hadeetha		Heet		Total	
	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR
Breast	5	15.84	54	10.33	10	5.58	104	23.29	3	6.38	10	9.46	19	11.13	205	11.57
Non-Hodgkin Lymphoma	0	0.00	35	6.69	7	3.91	66	14.78	3	6.38	10	9.46	3	1.76	124	7.00
Colorectal	1	3.17	21	4.02	2	1.12	39	8.73	3	6.38	7	6.62	6	3.51	79	4.46
Thyroid Gland	0	0.00	26	4.97	6	3.35	33	7.39	1	2.13	2	1.89	0	0.00	68	3.84
Stomach	1	3.17	12	2.30	1	0.56	38	8.51	1	2.13	1	0.95	4	2.34	58	3.27
Bronchus & Lung	0	0.00	11	2.10	3	1.67	36	8.06	1	2.13	2	1.89	4	2.34	57	3.22
Leukemia	2	6.33	22	4.21	2	1.12	22	4.93	1	2.13	2	1.89	3	1.76	54	3.05
Urinary Bladder	1	3.17	9	1.72	0	0.00	32	7.17	0	0.00	4	3.78	3	1.76	49	2.77
Prostate	0	0.00	17	6.32	1	1.08	16	6.97	1	4.13	6	11.03	3	3.41	44	4.83
Brain & CNS Tumor	0	0.00	14	2.68	1	0.56	20	4.48	3	6.38	5	4.73	0	0.00	43	2.43
Total	10	31.67	221	42.27	33	18.42	406	90.93	17	36.14	49	46.35	45	26.35	781	44.08
Percentage	1.28	---	28.30	---	4.23	---	51.98	---	2.18	---	6.27	---	5.76	---	100.00%	---

Nineveh
Populations Number : 3,729,998
Cancer Cases Number :2205
Incidence Rate: 59.12 / 100,000 Nineveh Populations

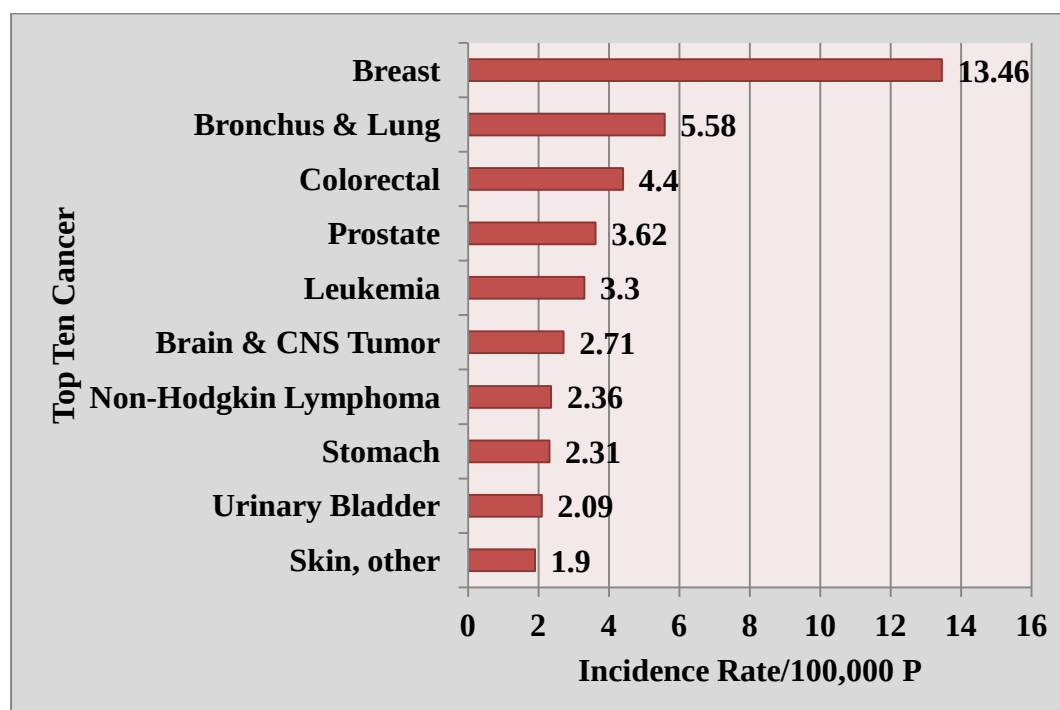


3.4.16. Nineveh governorate

Table No.; (78) Distribution of top ten cancers in Nineveh, Iraq, 2018

Top Ten All		No.	%
1	Breast	502	22.77
2	Bronchus & Lung	208	9.43
3	Colorectal	164	7.44
4	Leukemia	123	5.58
5	Brain & CNS Tumor	101	4.58
6	Non-Hodgkin Lymphoma	88	3.99
7	Stomach	86	3.90
8	Urinary Bladder	78	3.54
9	Skin, other	71	3.22
10	Prostate	69	3.13
Total Top Ten		1490	67.57
Total other Site		715	32.43
Total		2,205	100.00%

Figure No.; (59) Incidence rate of top ten cancers in Nineveh /100,000
Nineveh populations, Iraq, 2018



Prostate incidence rate calculated from the male population.

Table No.; (79) Distribution of top ten cancers in males, Nineveh, Iraq, 2018

Top Ten All		No.	%
1	Bronchus & Lung	163	16.35
2	Colorectal	90	9.03
3	Leukemia	76	7.62
4	Prostate	69	6.92
5	Urinary Bladder	63	6.32
6	Stomach	55	5.52
7	Non-Hodgkin Lymphoma	52	5.22
8	Brain & CNS Tumor	51	5.12
9	Larynx	39	3.91
10	Hodgkin Lymphoma	39	3.91
Total Top Ten		697	69.91
Total other Site		300	30.09
Total		997	100.00%

Figure No.; (60) Incidence rate of top ten cancers in males / 100,000 male populations, Nineveh, Iraq, 2018

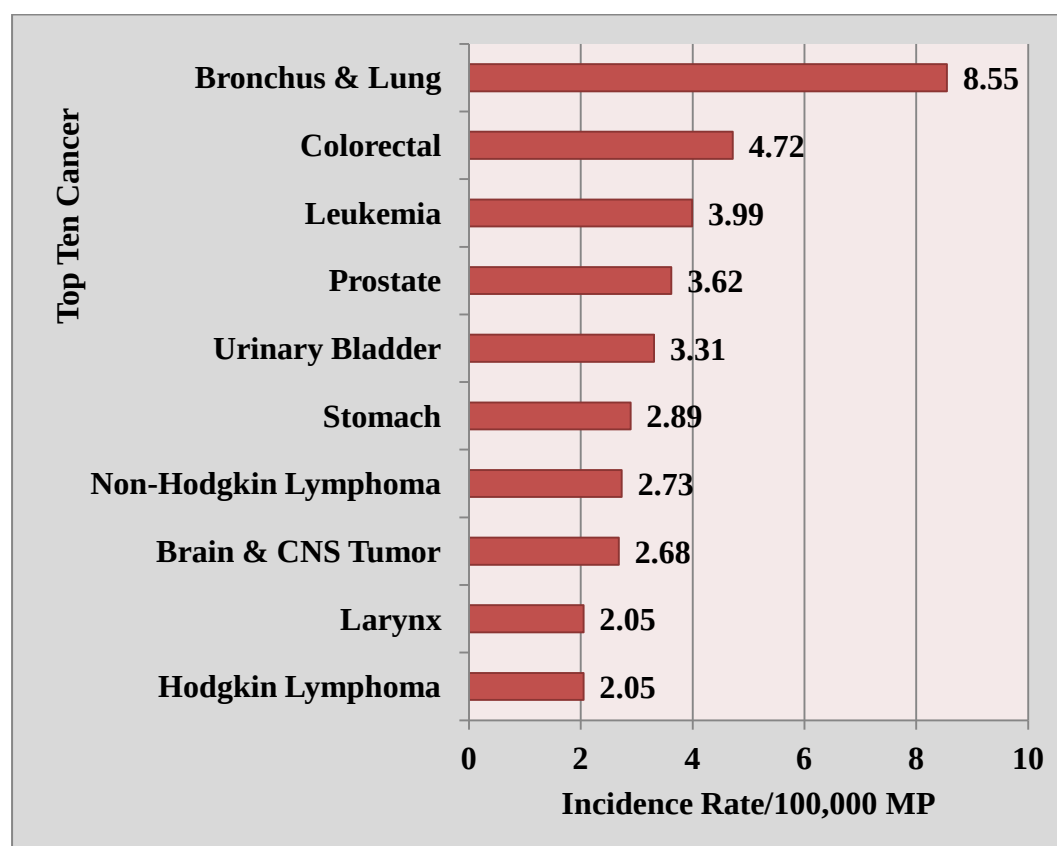


Table No.; (80) Distribution of top ten cancers in females, Nineveh, Iraq, 2018

Top Ten All		No.	%
1	Breast	492	40.73
2	Colorectal	74	6.13
3	Thyroid Gland	54	4.47
4	Brain & CNS Tumor	50	4.14
5	Ovary	47	3.89
6	Leukemia	47	3.89
7	Bronchus & Lung	45	3.73
8	Non-Hodgkin Lymphoma	36	2.98
9	Skin, other	34	2.81
10	Stomach	31	2.57
Total Top Ten		910	75.39
Total other Site		298	24.61
Total		1,208	100.00%

Figure No.; (61) Incidence rate of top ten cancers in females / 100,000 female populations, Nineveh, Iraq, 2018

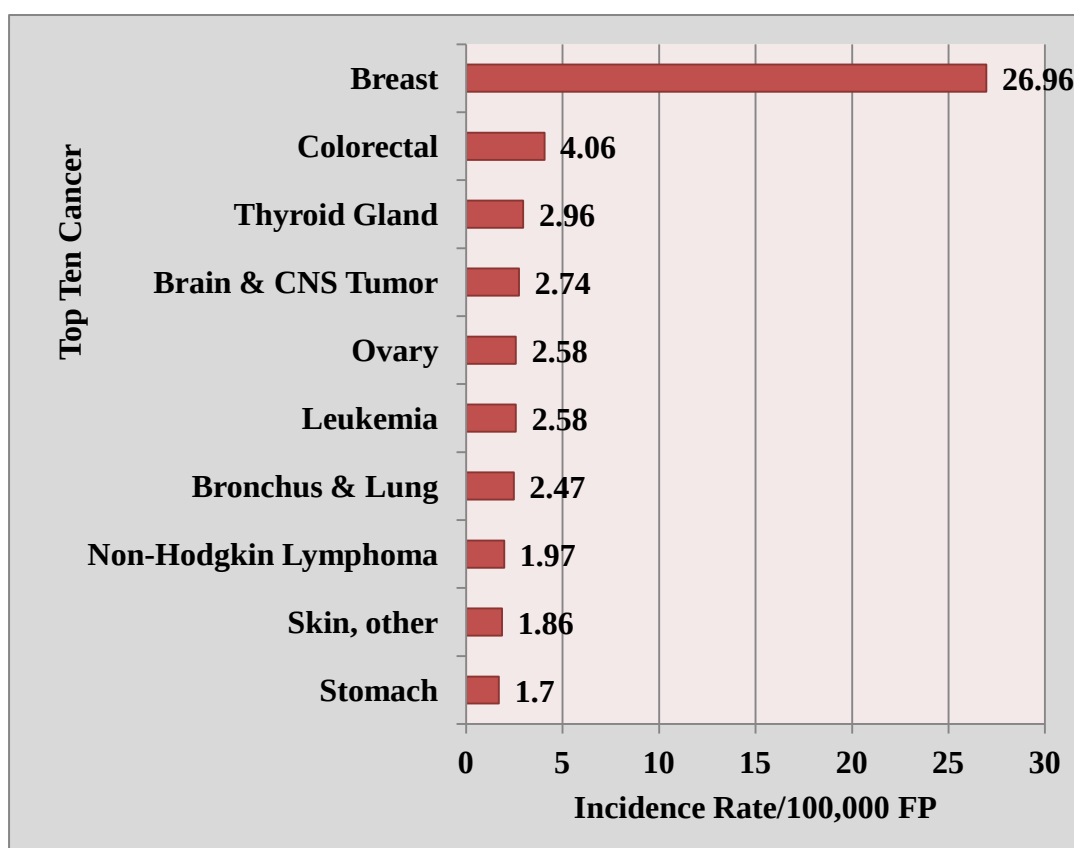


Table No.; (81) Distribution and incidence rate of top ten cancers in Nineveh by districts /100,000 Nineveh populations, Iraq, 2018

Top Ten	Al Baaj		Al Hamdanyia		Al Hattra		Al Shikhan		Makhmoor		Mosul		Sinjar		Tel Affar		Telkeif		Total	
	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR
Breast	4	2.23	14	6.65	3	5.05	2	4.55	6	2.86	430	22.57	7	2.15	27	5.28	9	4.28	502	13.46
Bronchus & Lung	3	1.67	6	2.85	1	1.68	1	2.27	8	3.82	135	7.09	21	6.45	22	4.31	11	5.23	208	5.58
Colorectal	0	0.00	5	2.37	0	0.00	1	2.27	2	0.95	135	7.09	6	1.84	9	1.76	6	2.85	164	4.40
Leukemia	3	1.67	12	5.70	4	6.73	1	2.27	4	1.91	84	4.41	6	1.84	5	0.98	4	1.90	123	3.30
Brain & CNS Tumor	2	1.11	7	3.32	2	3.37	0	0.00	3	1.43	71	3.73	8	2.46	7	1.37	1	0.48	101	2.71
Non-Hodgkin Lymphoma	3	1.67	6	2.85	0	0.00	0	0.00	1	0.48	62	3.25	5	1.53	8	1.57	3	1.43	88	2.36
Stomach	0	0.00	2	0.95	1	1.68	0	0.00	1	0.48	67	3.52	4	1.23	8	1.57	3	1.43	86	2.31
Urinary Bladder	1	0.56	0	0.00	0	0.00	0	0.00	4	1.91	68	3.57	0	0.00	3	0.59	2	0.95	78	2.09
Skin, other	0	0.00	2	0.95	0	0.00	0	0.00	1	0.48	61	3.20	5	1.53	1	0.20	1	0.48	71	1.90
Prostate	0	0.00	3	2.79	1	3.29	1	4.45	0	0.00	54	5.54	1	0.60	7	2.68	2	1.86	69	3.62
Total	16	8.91	57	27.07	12	20.19	6	13.64	30	14.32	1167	61.25	63	19.34	97	18.98	42	19.97	1490	39.95
Percentage	1.07	---	3.83	---	0.81	---	0.40	---	2.01	---	78.32	---	4.23	---	6.51	---	2.82	---	100%	---

Kirkuk
Populations Number : 1,597,876
Cancer Cases Number :861
Incidence Rate: 53.88/100,000 Kirkuk Populations

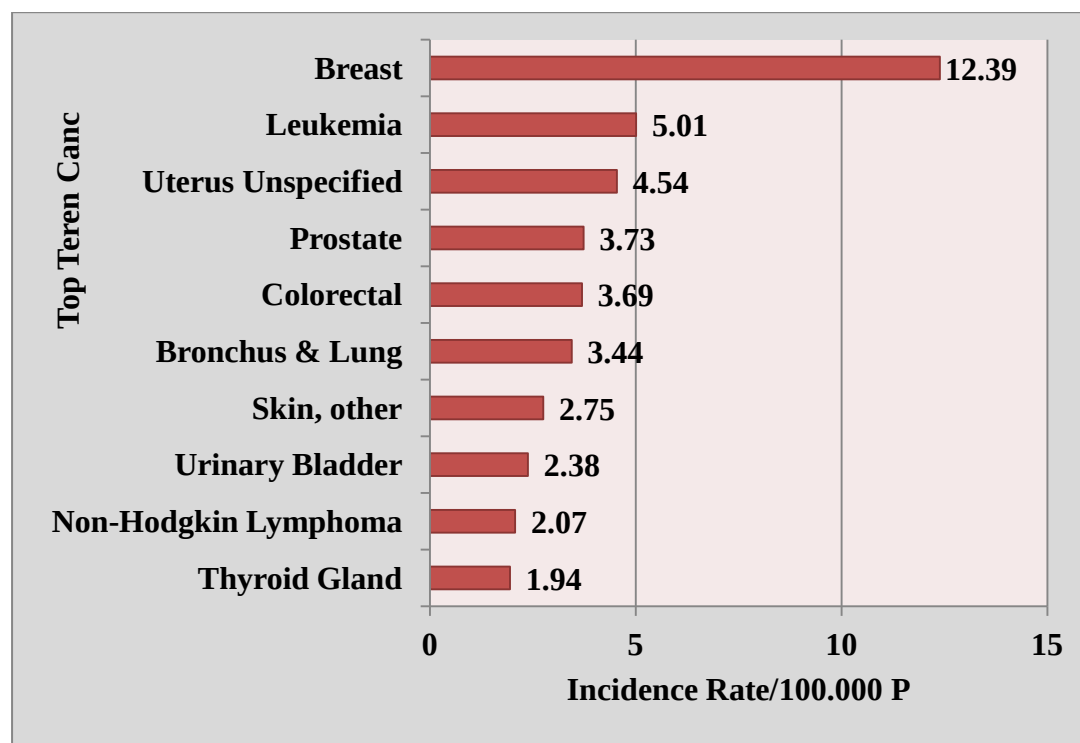


3.4.17. Kirkuk governorate

Table No.; (82) Distribution of top ten cancers in Kirkuk, Iraq, 2018

Top Ten All		No.	%
1	Breast	198	23.00
2	Leukemia	80	9.29
3	Colorectal	59	6.85
4	Bronchus & Lung	55	6.39
5	Skin, other	44	5.11
6	Urinary Bladder	38	4.41
7	Uterus Unspecified	36	4.18
8	Non-Hodgkin Lymphoma	33	3.83
9	Thyroid Gland	31	3.60
10	Prostate	30	3.48
Total Top Ten		604	70.15
Total other Site		257	29.85
Total		861	100.00%

Figure No.; (62) Incidence rate of top ten cancers in Kirkuk /100,000 Kirkuk populations, Iraq, 2018



Prostate incidence rate calculated from the male population.

Table No.; (83) Distribution of top ten cancers in males, Kirkuk, Iraq, 2018

Top Ten		No.	%
1	Leukemia	47	12.98
2	Bronchus & Lung	36	9.94
3	Colorectal	32	8.84
4	Urinary Bladder	32	8.84
5	Prostate	30	8.29
6	Skin, other	24	6.63
7	Brain & CNS Tumor	18	4.97
8	Non-Hodgkin Lymphoma	17	4.70
9	Other Connective /Soft Tissues	13	3.59
10	Stomach	13	3.59
Total Top Ten		262	72.38
Total other Site		100	27.62
Total		362	100.00%

Figure No.; (63) Incidence rate of top ten cancers in males / 100,000 male populations, Kirkuk, Iraq, 2018

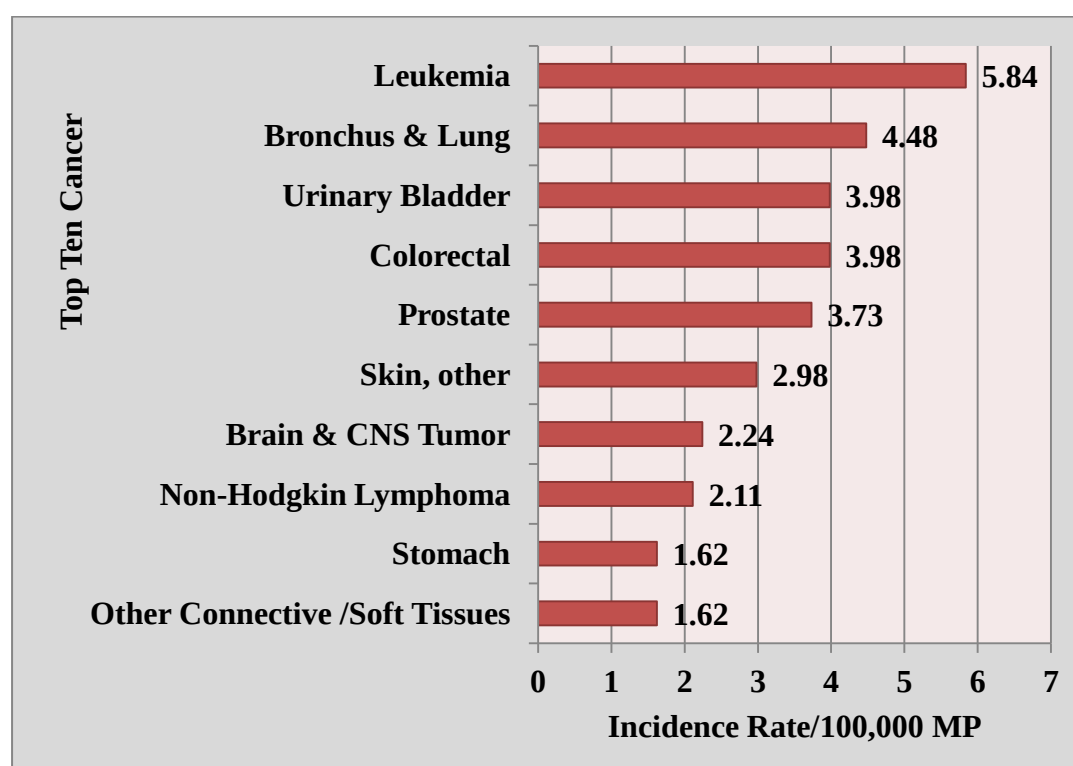


Table No.; (84) Distribution of top ten cancers in females, Kirkuk, Iraq, 2018

Top Ten		No.	%
1	Breast	196	39.28
2	Uterus Unspecified	36	7.21
3	Leukemia	33	6.61
4	Colorectal	27	5.41
5	Thyroid Gland	23	4.61
6	Skin, other	20	4.01
7	Bronchus & Lung	19	3.81
8	Non-Hodgkin Lymphoma	16	3.21
9	Ovary	15	3.01
10	Brain & CNS Tumor	11	2.20
Total Top Ten		396	79.36
Total other Site		103	20.64
Total		499	100.00%

Figure No.; (64) Incidence rate of top ten cancers in females / 100,000 female populations, Kirkuk, Iraq, 2018

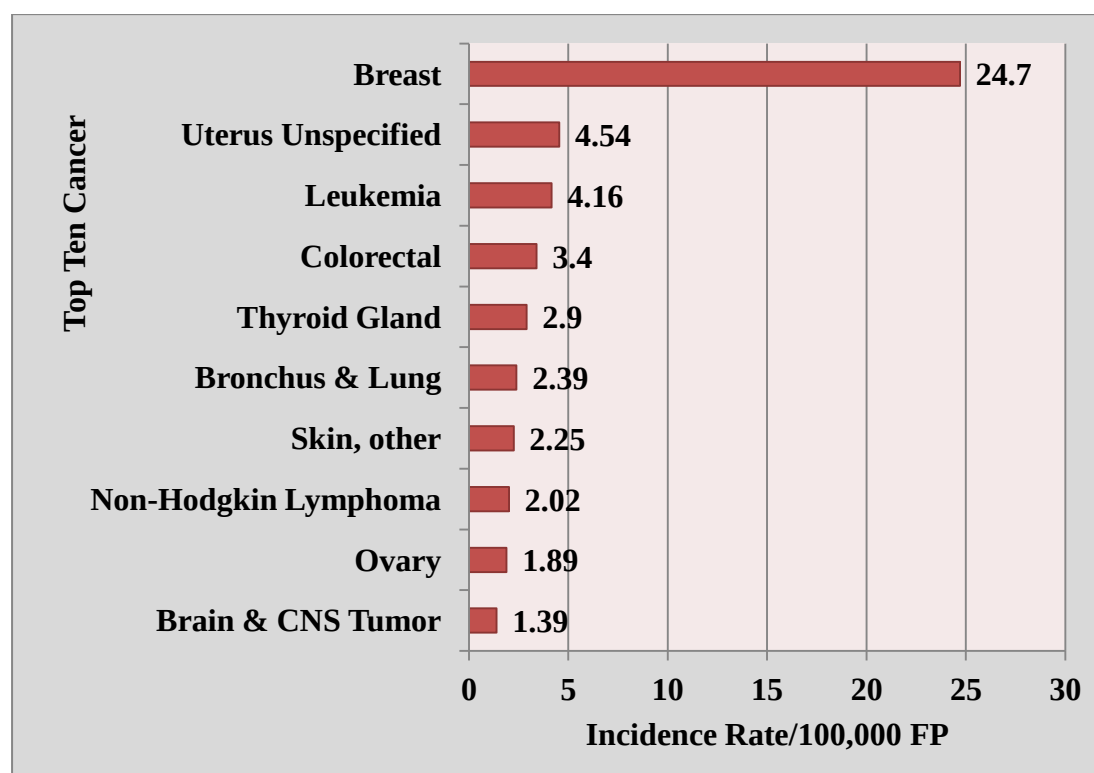


Table No.; (85) Distribution and incidence rate of top ten cancers in Kirkuk by districts /100,000 Kirkuk populations, Iraq, 2018

Top Ten	Al Hawija		Dakook		Dibis		Kirkuk		Total	
	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR
Breast	19	6.48	3	3.15	5	7.06	171	15.02	198	12.39
Leukemia	10	3.41	3	3.15	4	5.65	63	5.53	80	5.01
Colorectal	5	1.70	5	5.26	2	2.83	47	4.13	59	3.69
Bronchus & Lung	5	1.70	5	5.26	1	1.41	44	3.86	55	3.44
Skin, other	4	1.36	5	5.26	0	0.00	35	3.07	44	2.75
Urinary Bladder	4	1.36	1	1.05	0	0.00	33	2.90	38	2.38
Uterus Unspecified	3	2.06	2	4.25	0	0.00	31	5.47	36	4.54
Non-Hodgkin Lymphoma	3	1.02	1	1.05	0	0.00	29	2.55	33	2.07
Thyroid Gland	2	0.68	1	1.05	0	0.00	28	2.46	31	1.94
Prostate	4	2.70	1	2.08	1	2.79	24	4.19	30	3.73
Total	59	20.12	27	28.39	13	18.37	505	44.35	604	37.80
Percentage	9.77	---	4.47	---	2.15	---	83.61	---	100.00%	---

Salaheldin
Populations Number : 1,595,235
Cancer Cases Number :843
Incidence Rate: 52.84 / 100,000 Salaheldin Populations



3.4.18. Salaheldin governorate

Table No.; (86) Distribution of top ten cancers in Salaheldin, Iraq, 2018

Top Ten All		No.	%
1	Breast	175	20.76
2	Leukemia	68	8.07
3	Thyroid Gland	66	7.83
4	Bronchus & Lung	48	5.69
5	Colorectal	45	5.34
6	Stomach	38	4.51
7	Brain & CNS Tumor	34	4.03
8	Urinary Bladder	32	3.80
9	Non-Hodgkin Lymphoma	31	3.68
10	Skin, other	29	3.44
Total Top Ten		566	67.14
Total other Site		277	32.86
Total		843	100.00%

Figure No.; (65) Incidence rate of top ten cancers in Salaheldin /100,000 Salaheldin populations, Iraq, 2018

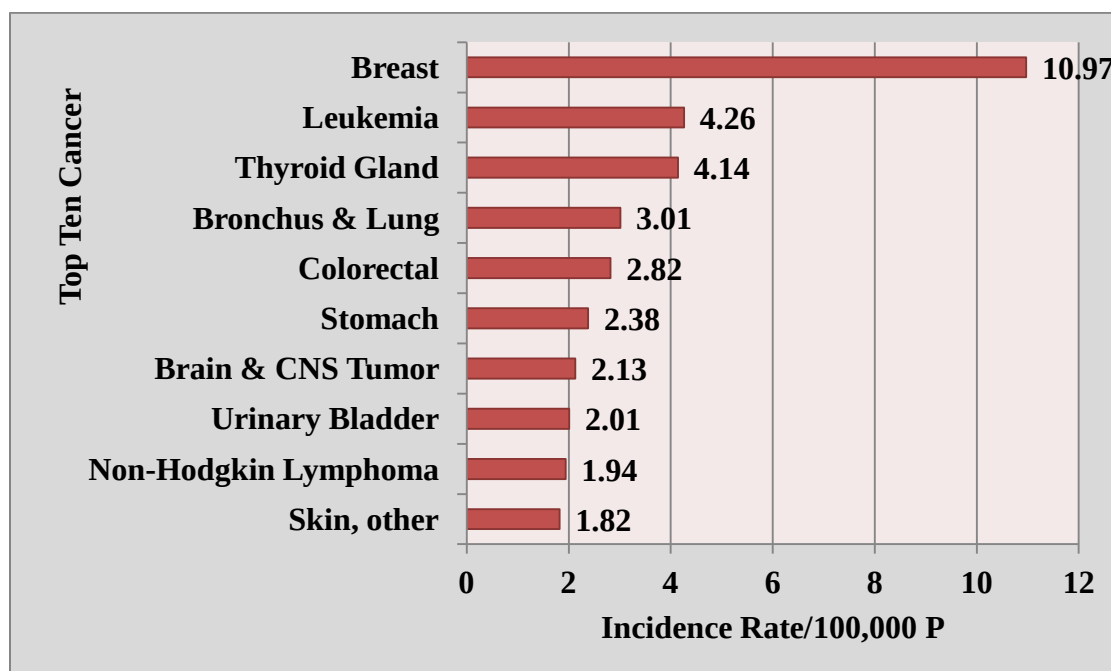


Table No.; (87) Distribution of top ten cancers in males, Salaheldin, Iraq, 2018

Top Ten		No.	%
1	Leukemia	42	12.17
2	Bronchus & Lung	34	9.86
3	Urinary Bladder	29	8.41
4	Prostate	24	6.96
5	Colorectal	22	6.38
6	Brain & CNS Tumor	19	5.51
7	Stomach	17	4.93
8	Skin, other	15	4.35
9	Thyroid Gland	13	3.77
10	Non-Hodgkin Lymphoma	12	3.48
Total Top Ten		227	65.80
Total other Site		118	34.20
Total		345	100.00%

Figure No.; (66) Incidence rate of top ten cancers in males / 100,000 male populations, Salaheldin, Iraq, 2018

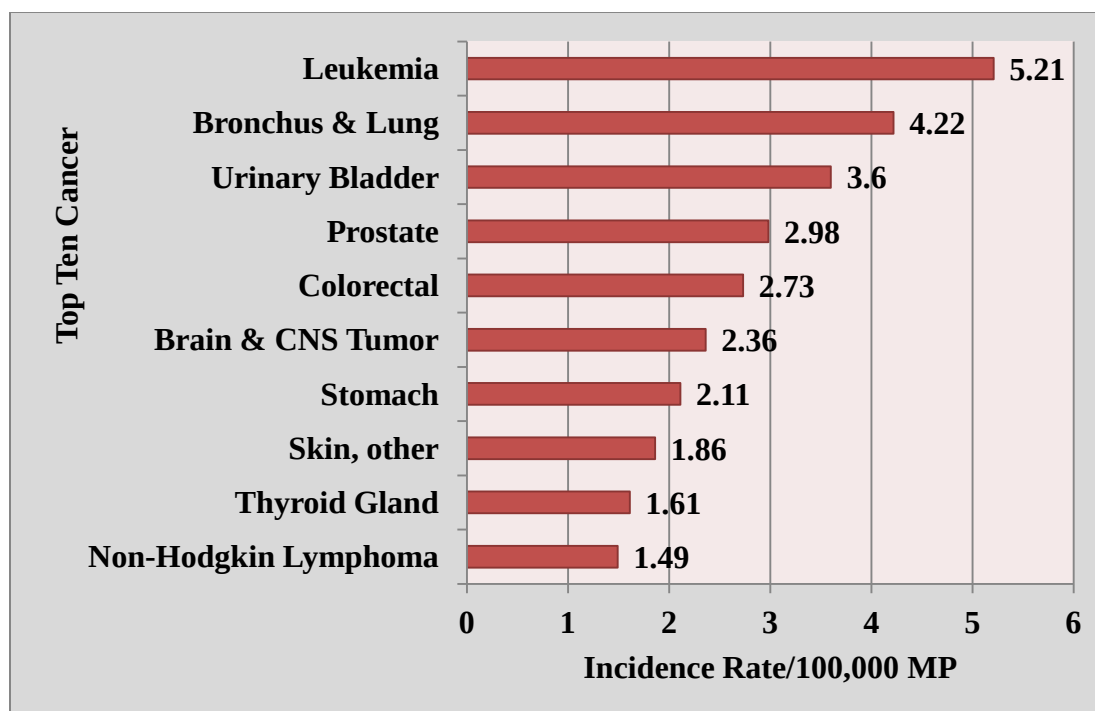


Table No.; (88) Distribution of top ten cancers in females, Salaheldin, Iraq, 2018

Top Ten		No.	%
1	Breast	172	34.54
2	Thyroid Gland	53	10.64
3	Leukemia	26	5.22
4	Colorectal	23	4.62
5	Stomach	21	4.22
6	Non-Hodgkin Lymphoma	19	3.82
7	Brain & CNS Tumor	15	3.01
8	Ovary	15	3.01
9	Bronchus & Lung	14	2.81
10	Skin, other	14	2.81
Total Top Ten		372	74.70
Total other Site		126	25.30
Total		498	100.00%

Figure No.; (67) Incidence rate of top ten cancers in Females / 100,000 Female populations, Salaheldin, Iraq, 2018

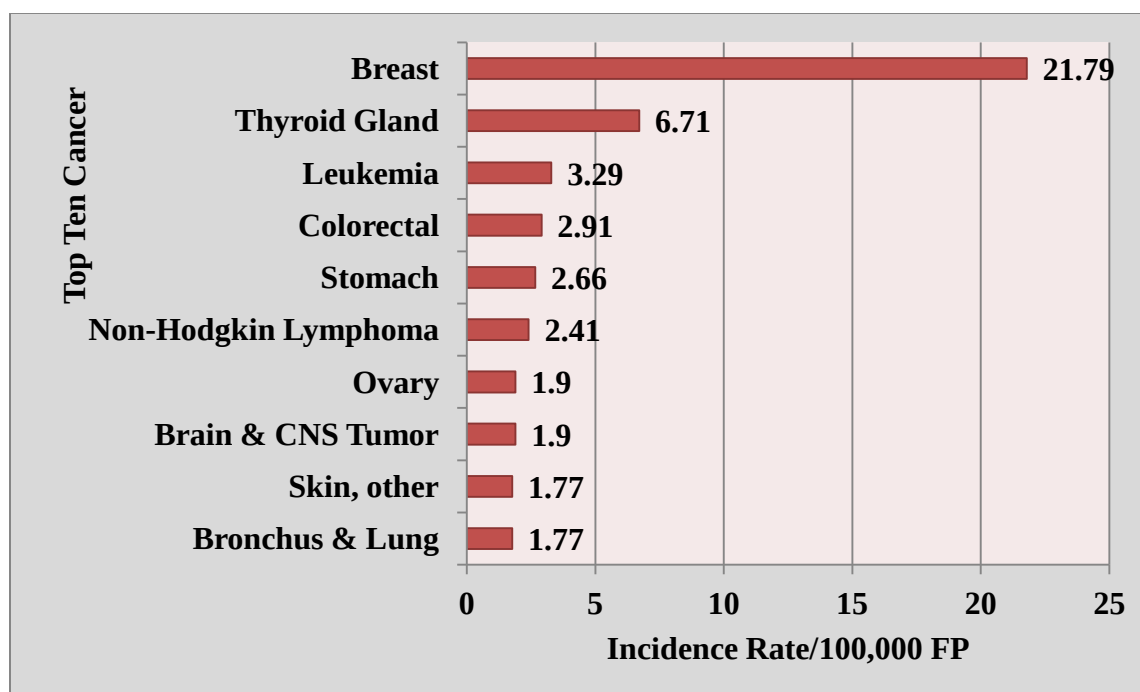


Table No.; (89) Distribution and incidence rate of top ten cancer in Salaheldin by districts /100,000 Salaheldin populations, Iraq, 2018

Top Ten	Al Door		Al Faris		Al Shirkatt		Balad		Beigy		Dooz Khormatoo		Sammara		Tikrit		Total	
	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR	No.	IR
Breast	1	1.41	3	2.73	14	6.44	22	7.82	4	1.80	19	12.64	41	16.54	71	37.40	175	10.97
Leukemia	0	0.00	4	3.65	11	5.06	10	3.56	5	2.26	8	5.32	9	3.63	21	11.06	68	4.26
Thyroid Gland	0	0.00	1	0.91	9	4.14	8	2.85	4	1.80	3	2.00	17	6.86	24	12.64	66	4.14
Bronchus & Lung	1	1.41	2	1.82	8	3.68	4	1.42	2	0.90	5	3.33	12	4.84	14	7.37	48	3.01
Colorectal	0	0.00	0	0.00	3	1.38	10	3.56	2	0.90	7	4.66	8	3.23	15	7.90	45	2.82
Stomach	0	0.00	0	0.00	0	0.00	5	1.78	2	0.90	3	2.00	9	3.63	19	10.01	38	2.38
Brain & CNS Tumor	1	1.41	1	0.91	3	1.38	7	2.49	2	0.90	4	2.66	6	2.42	10	5.27	34	2.13
Urinary Bladder	0	0.00	0	0.00	4	1.84	6	2.13	1	0.45	5	3.33	6	2.42	10	5.27	32	2.01
Non-Hodgkin Lymphoma	0	0.00	0	0.00	3	1.38	4	1.42	1	0.45	3	2.00	8	3.23	12	6.32	31	1.94
Skin, other	0	0.00	1	0.91	1	0.46	6	2.13	2	0.90	4	2.66	9	3.63	6	3.16	29	1.82
Total	3	4.22	12	10.94	56	25.77	82	29.16	25	11.28	61	40.57	125	50.42	202	106.40	566	35.48
Percentage	0.53	---	2.12	---	9.89	---	14.49	---	4.42	---	10.78	---	22.08	---	35.69	---	100%	---

Results

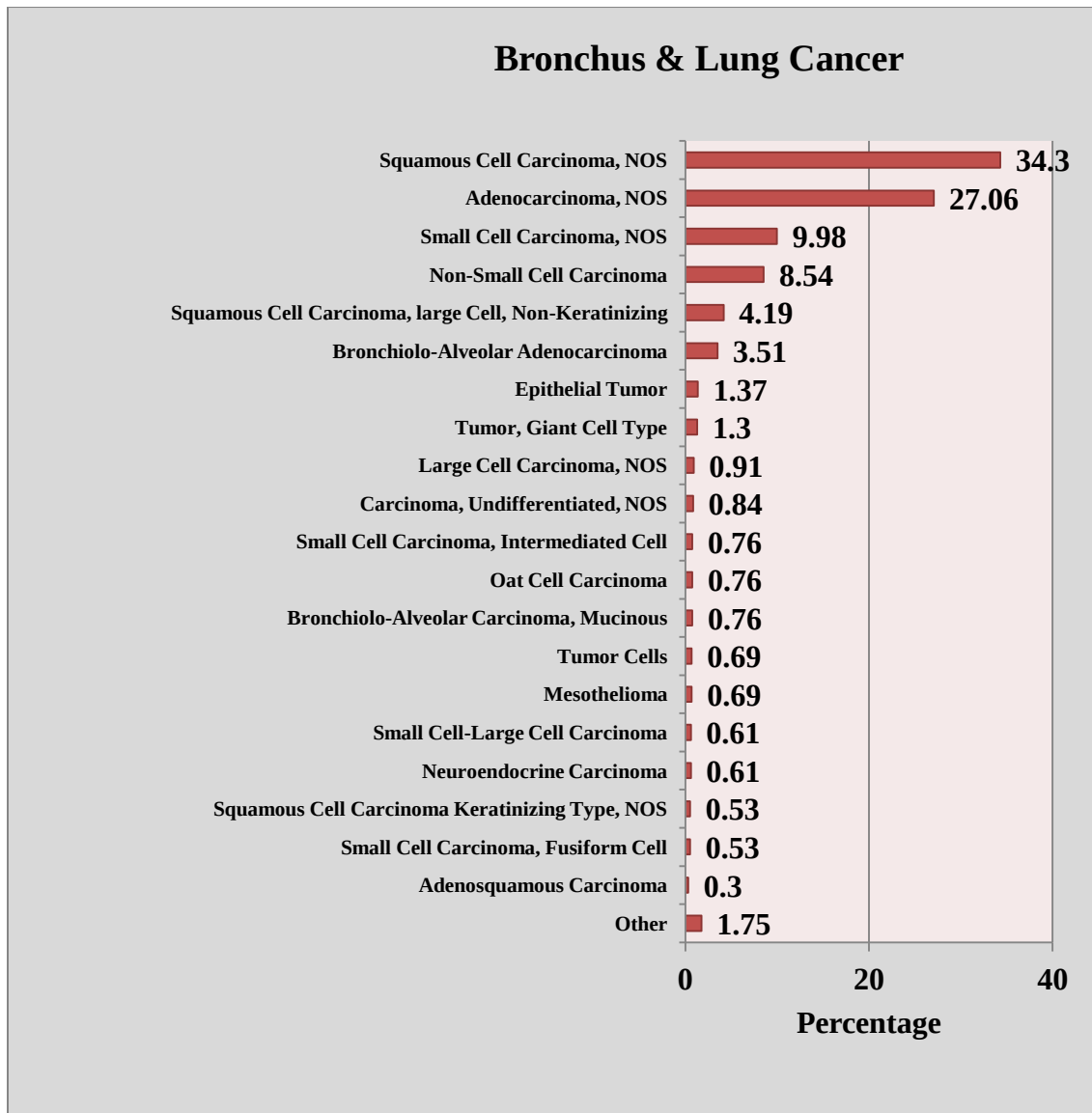
Morphology of Top Ten Cancers in Iraq 2018

3.5. Morphology of top ten cancers in Iraq in 2018:

3.5.1 Morphology of the top ten cancers in males, Iraq, 2018

Figure No.; (68-77) shows the morphology of the top ten cancers in males in Iraq during the year 2018.

Figure No.; (68) Bronchus & Lung cancer in males by the type of morphology, Iraq, 2018



**Figure No.; (69) Urinary Bladder cancer in males by the type of morphology,
Iraq, 2018**

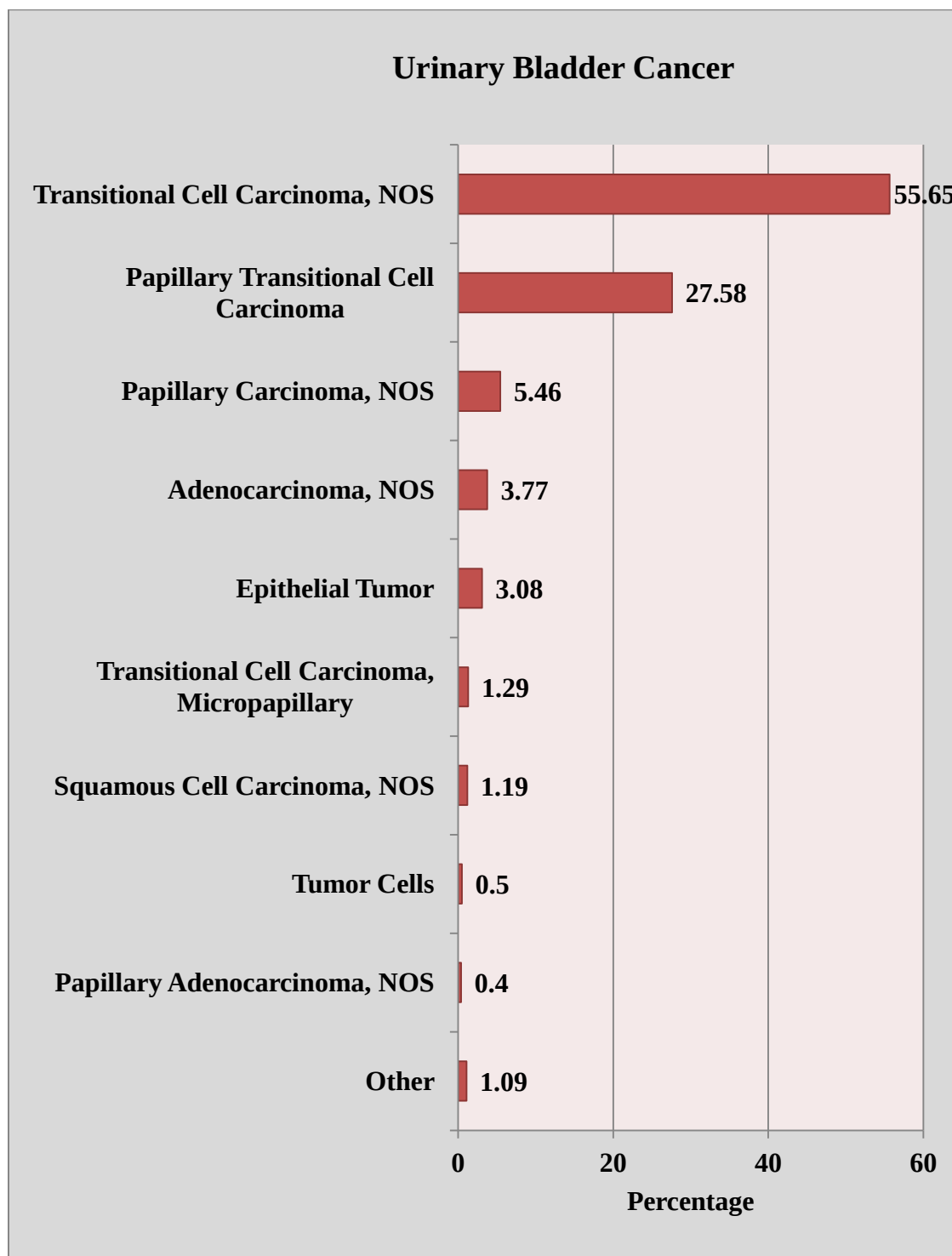


Figure No.; (70) Leukemia in males by the type of morphology, Iraq, 2018

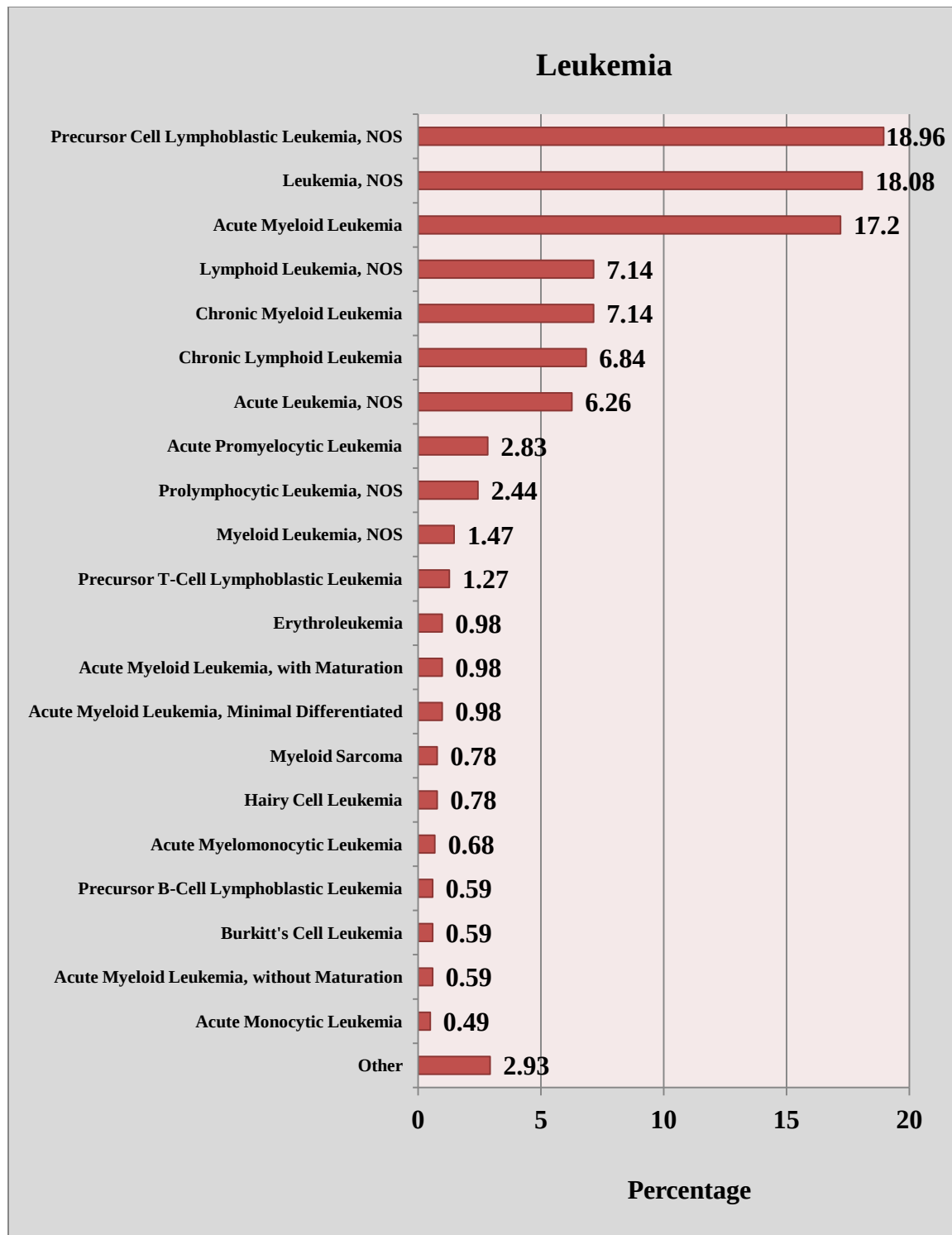


Figure No.; (71) Prostate Cancer in males by the type of morphology, Iraq, 2018

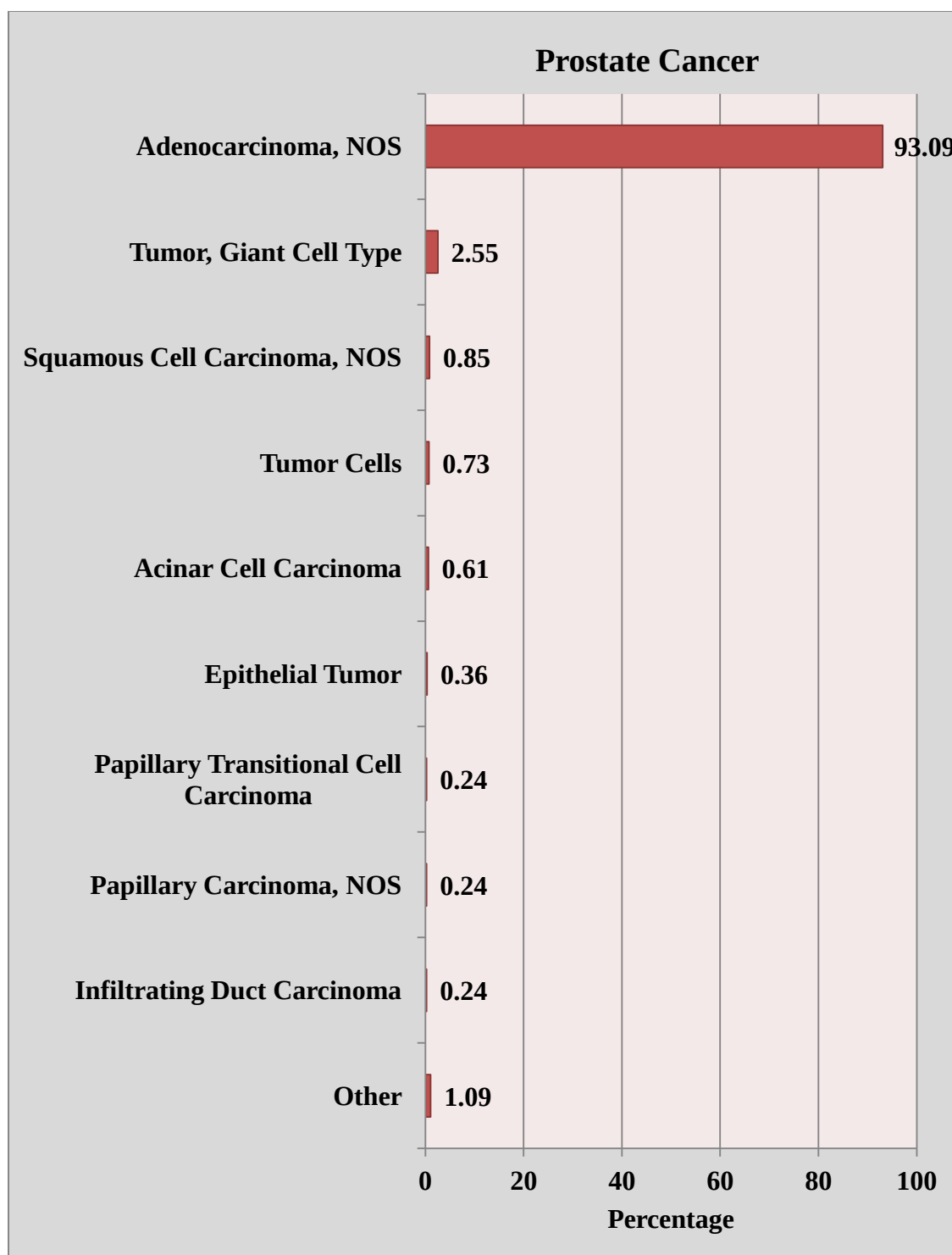
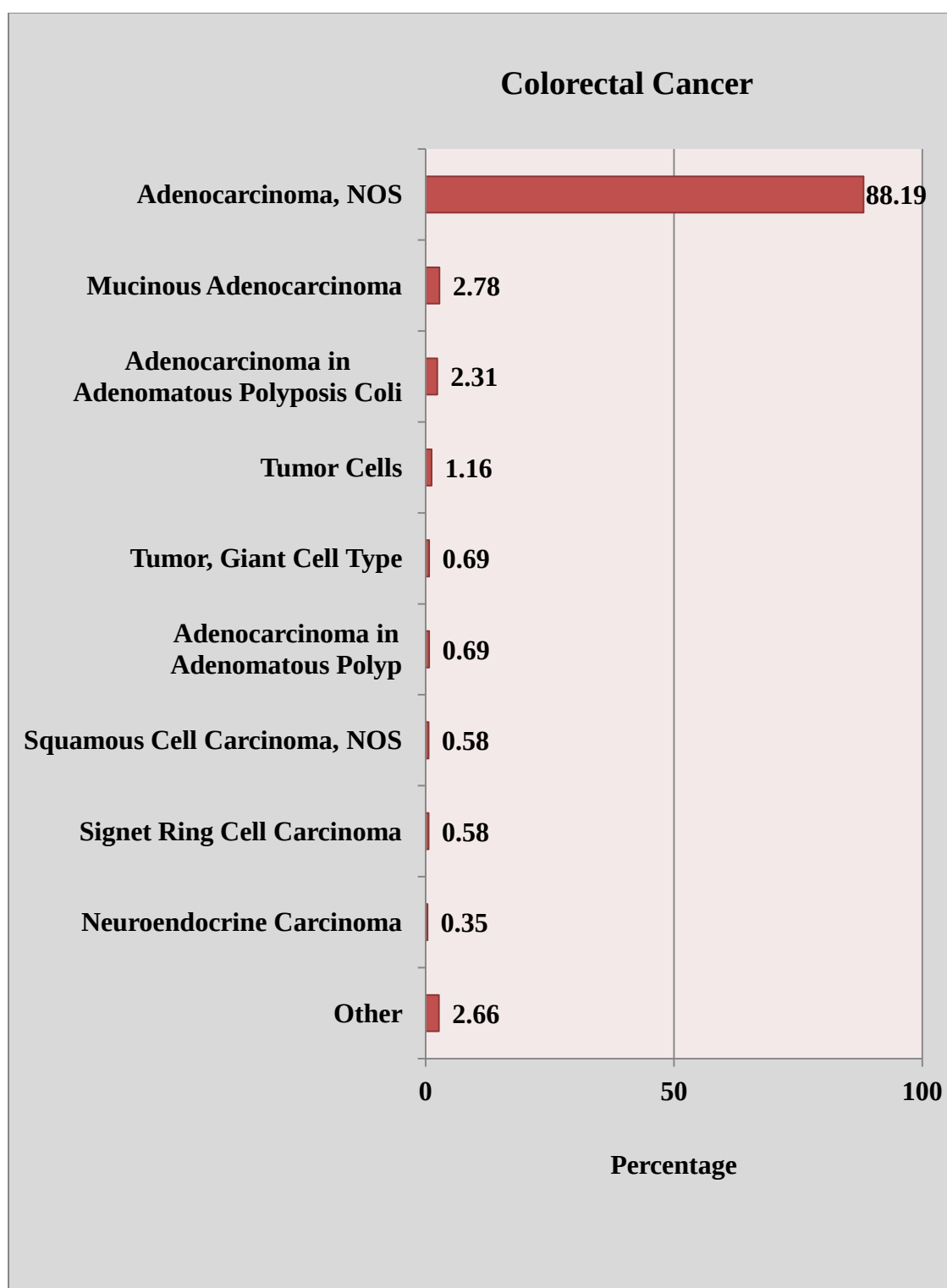


Figure No.; (72) Colorectal cancer in male by the type of morphology, Iraq, 2018



**Figure No.; (73) Brain & other CNS tumor in males by the type of morphology,
Iraq, 2018**

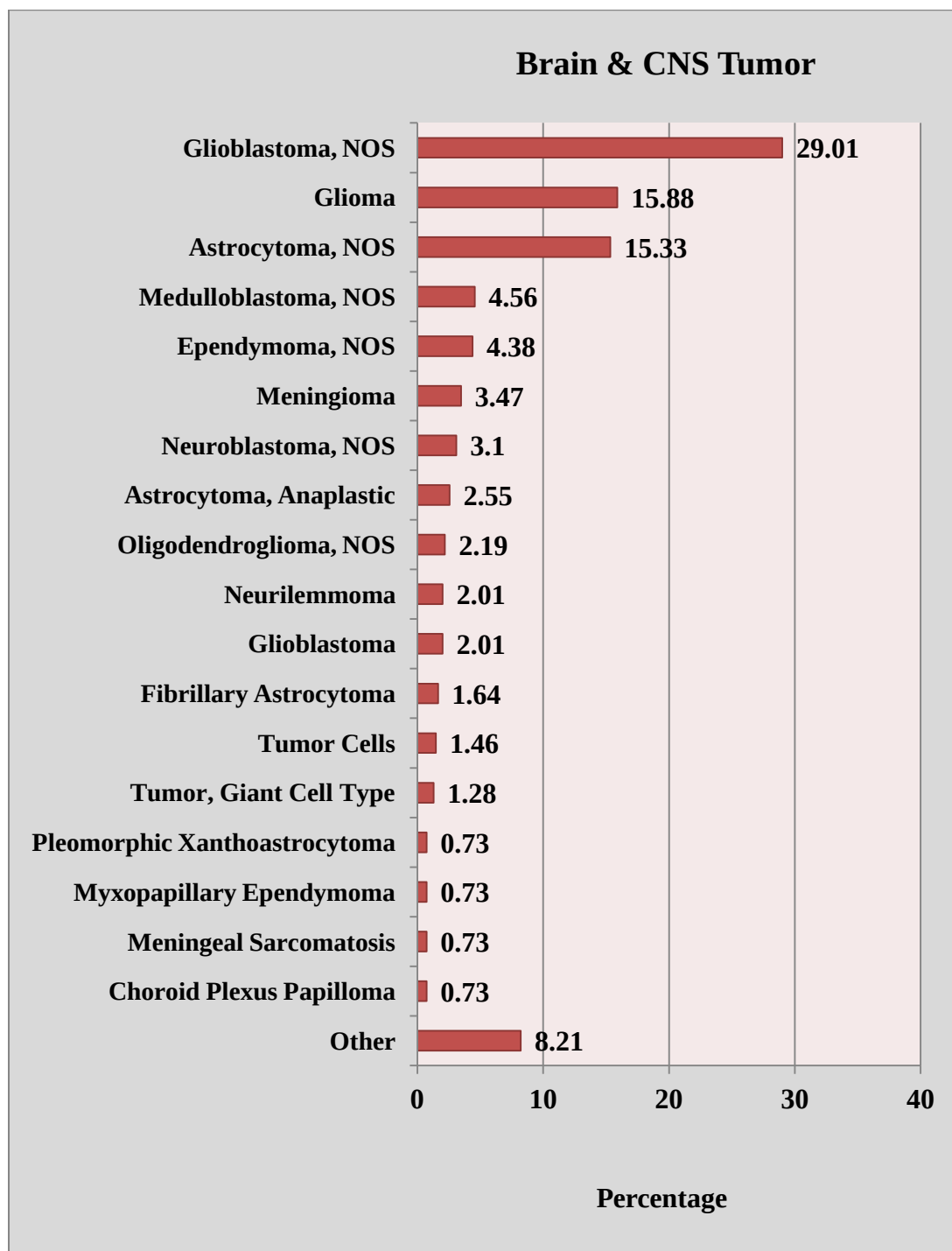


Figure No.; (74) Non-Hodgkin lymphomas in males by the type of morphology, Iraq, 2018

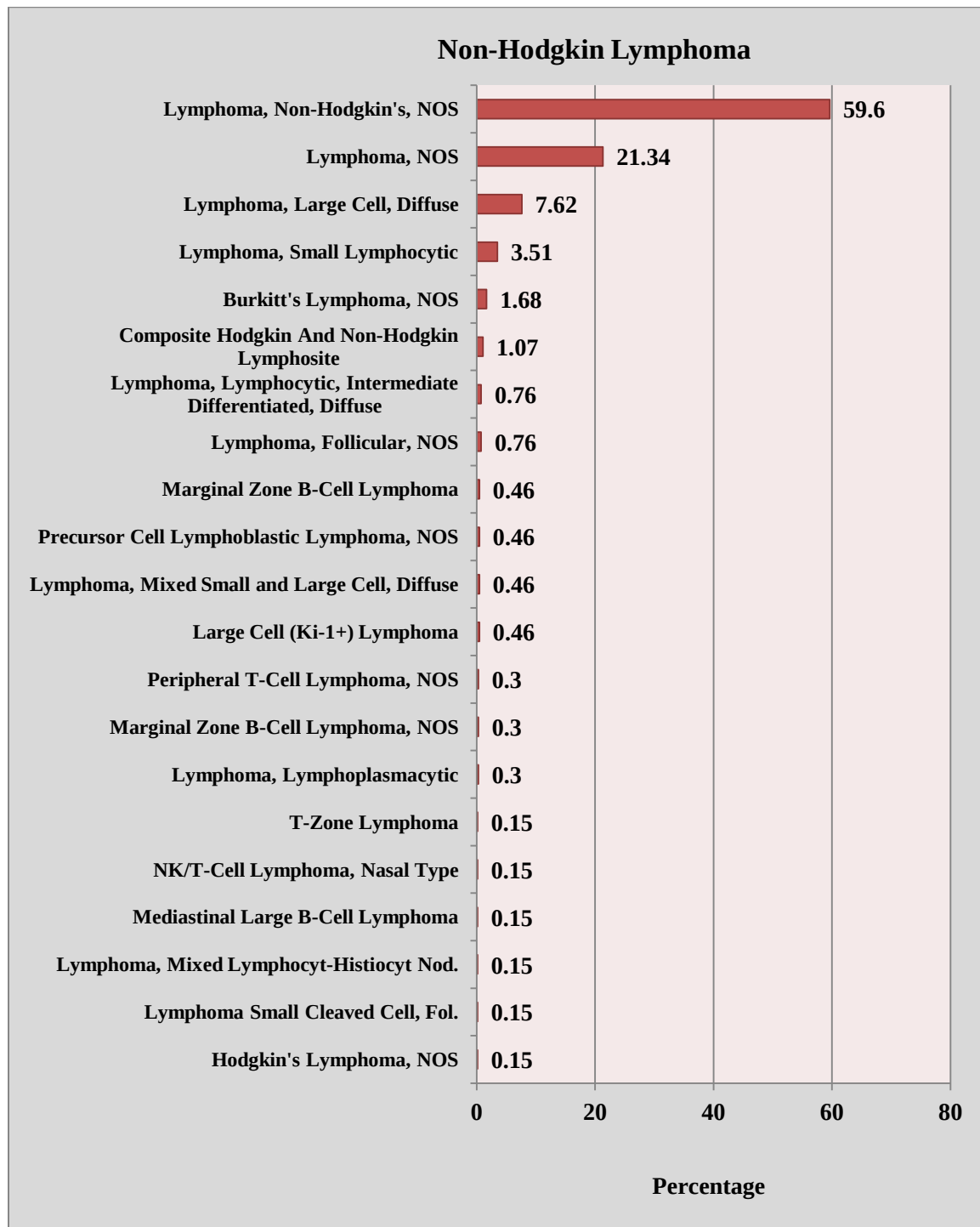


Figure No.; (75) Skin cancer in males by the type of morphology, Iraq, 2018

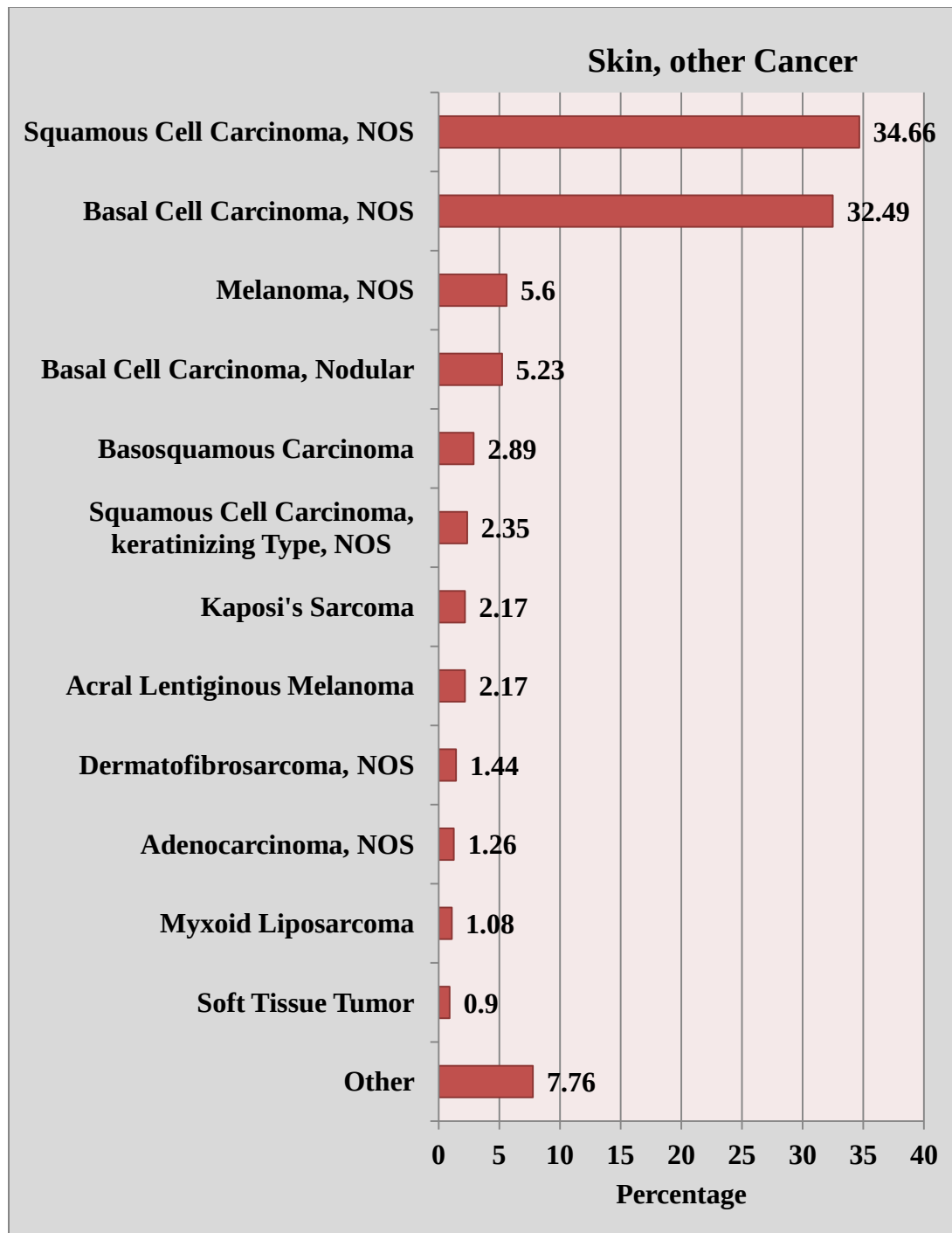


Figure No.; (76) Stomach cancer in males by the type of morphology, Iraq, 2018

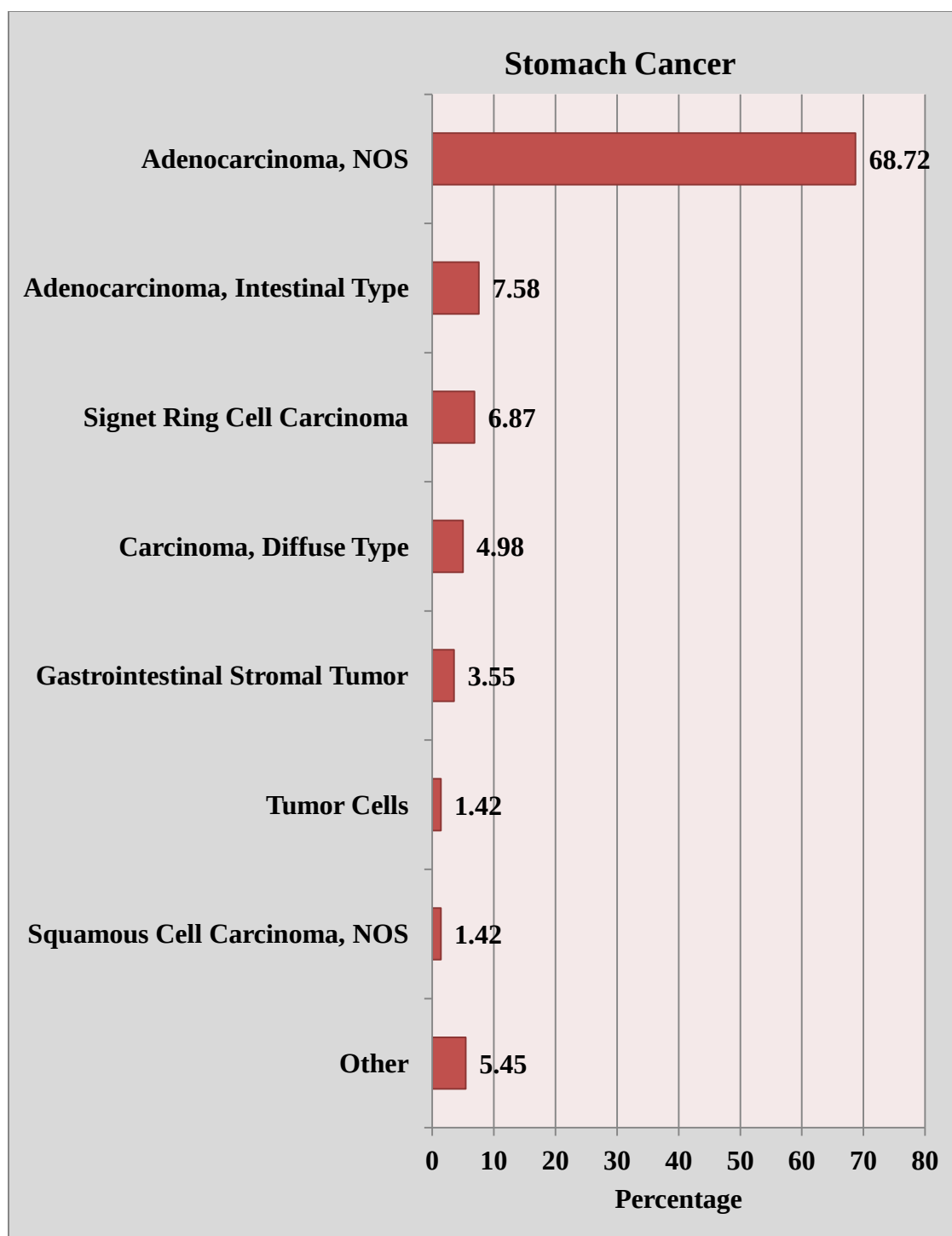
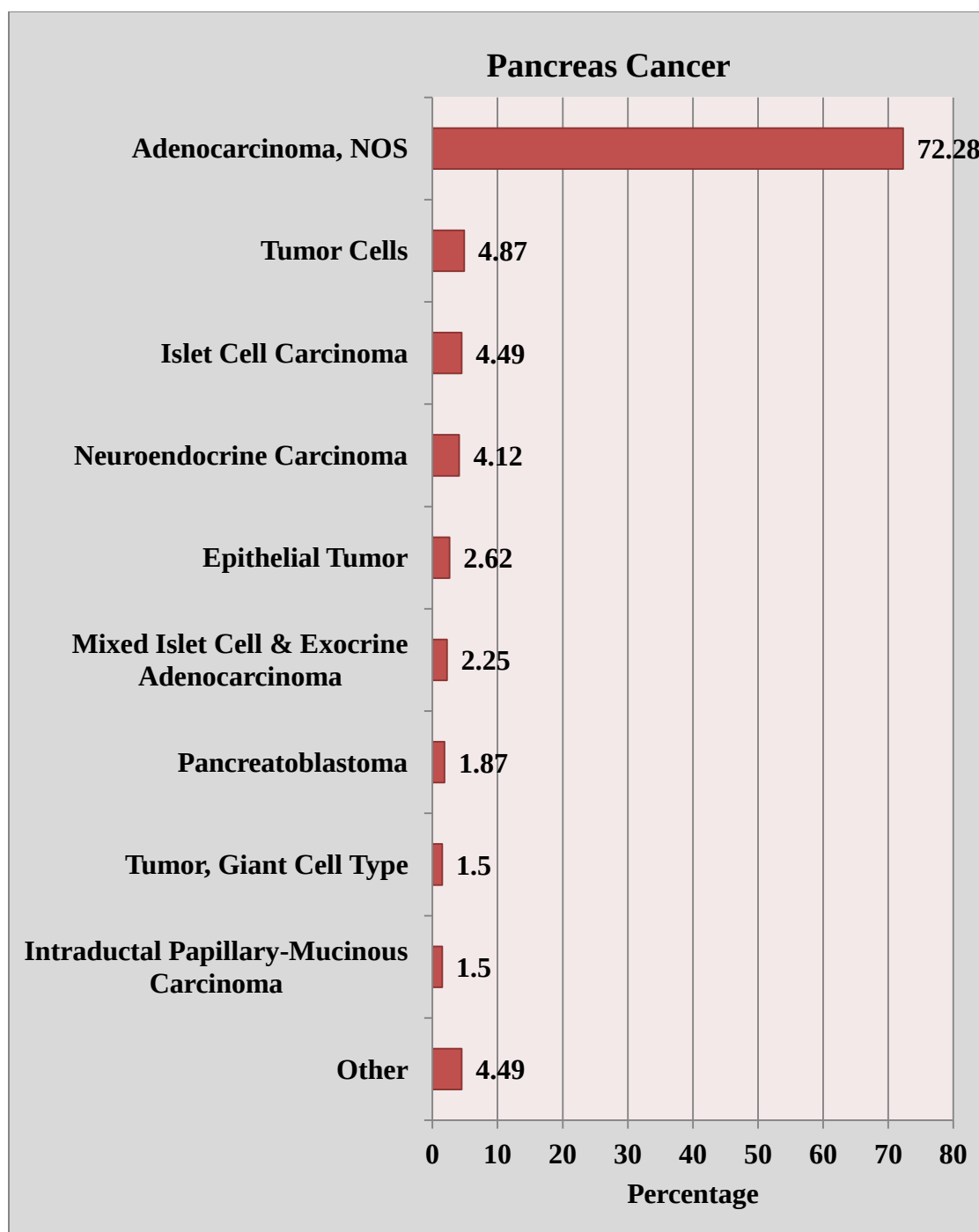


Figure No.; (77) Pancreas cancer in males by the type of morphology, Iraq, 2018



3.5.2. Morphology of the top ten cancers in females, Iraq, 2018.

Figure No.; (78-87) shows the morphology of the top ten cancers in females in Iraq during the year 2018

Figure No.; (78) Breast cancer in females by the type of morphology, Iraq, 2018

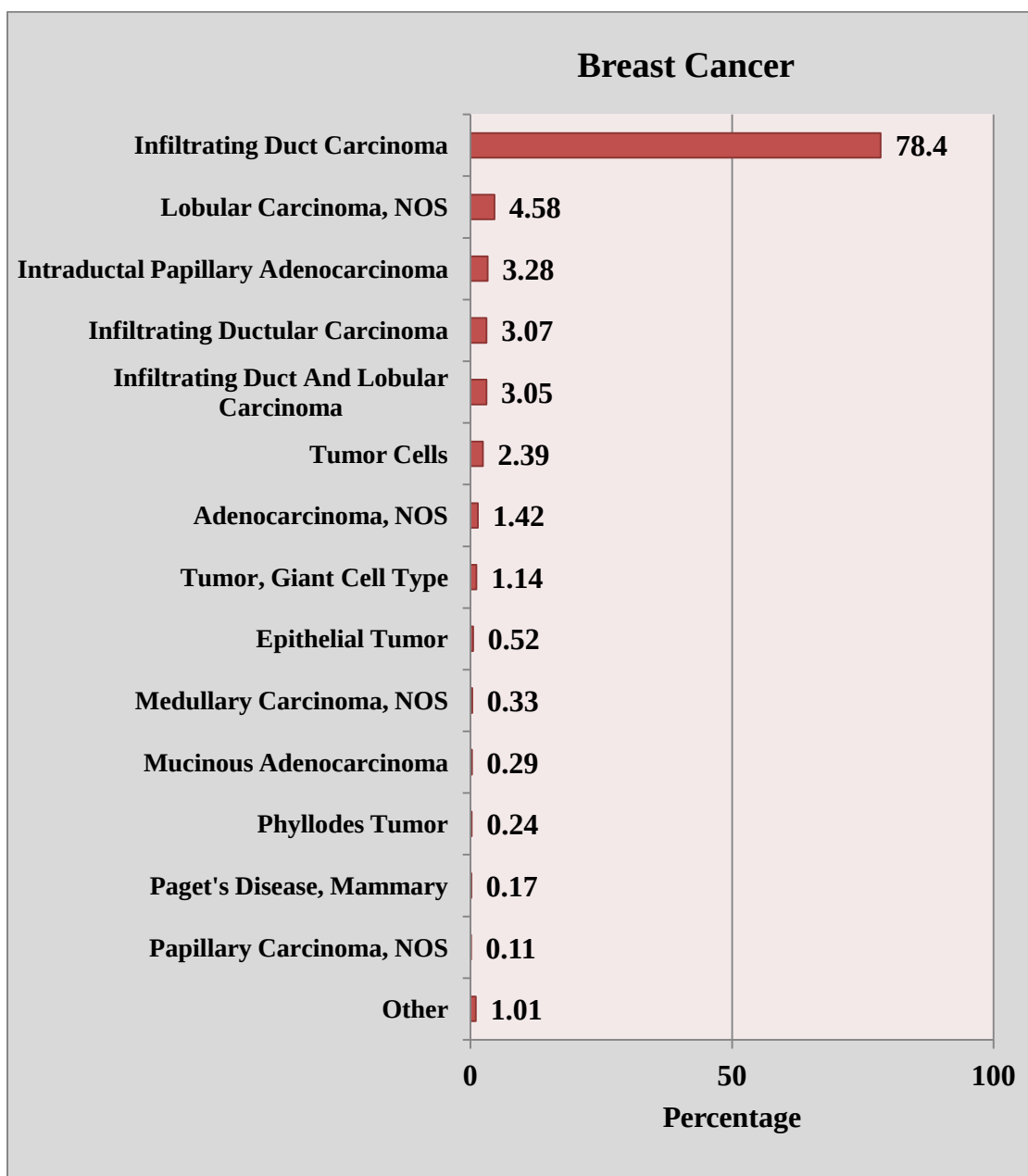
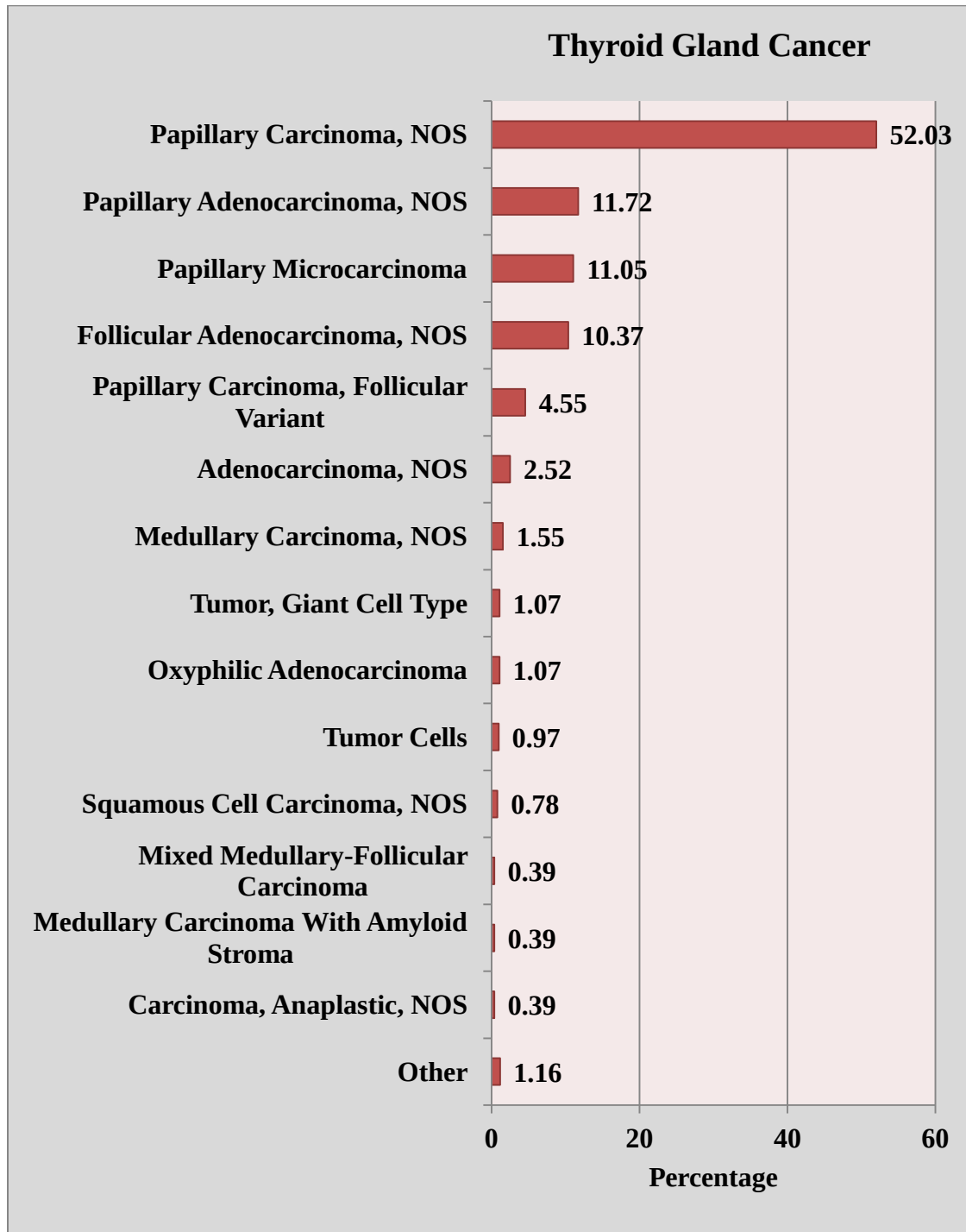


Figure No.; (79) Thyroid Gland cancer in females by the type of morphology, Iraq, 2018



**Figure No.; (80) Colorectal cancer in females by the type of morphology,
Iraq, 2018**

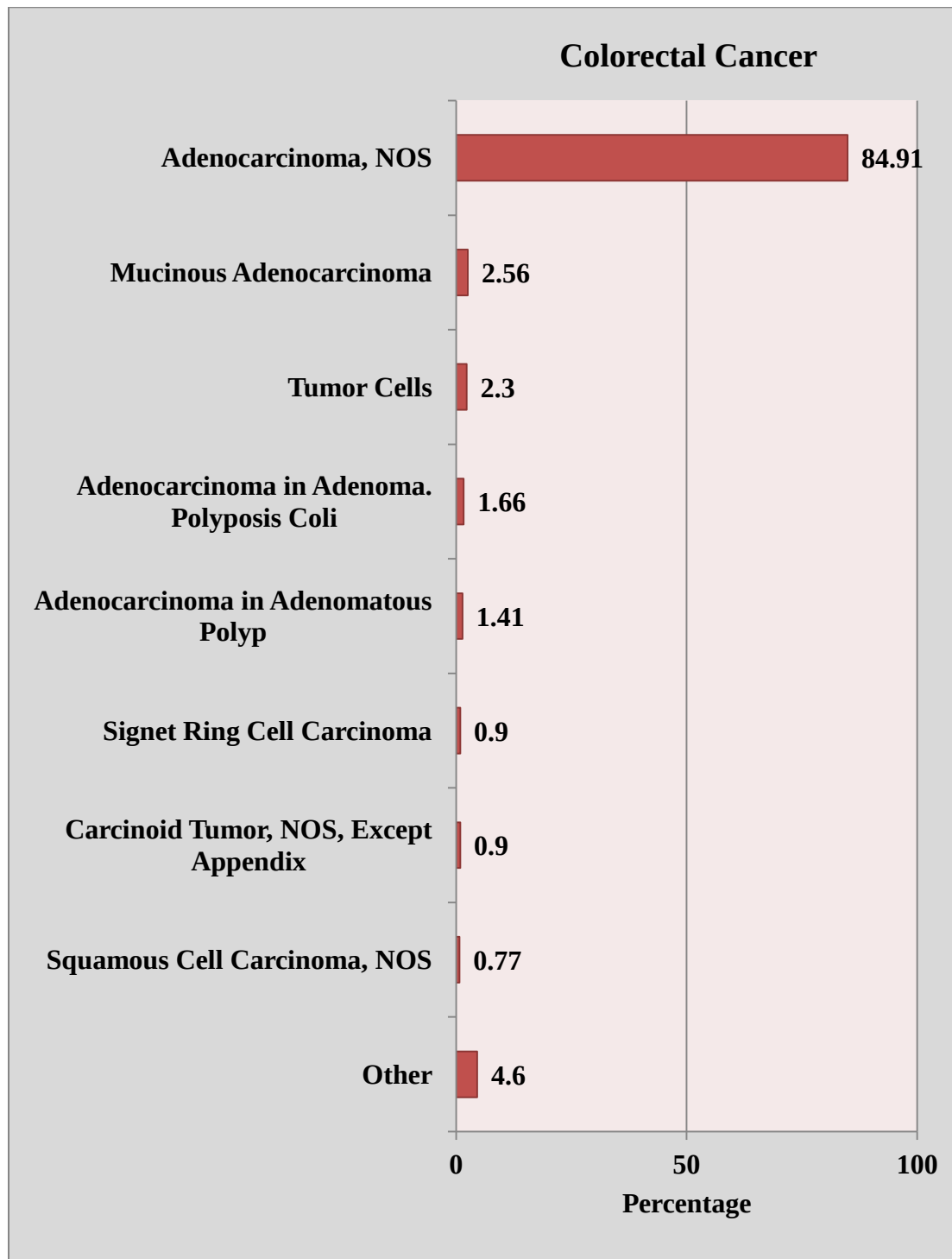
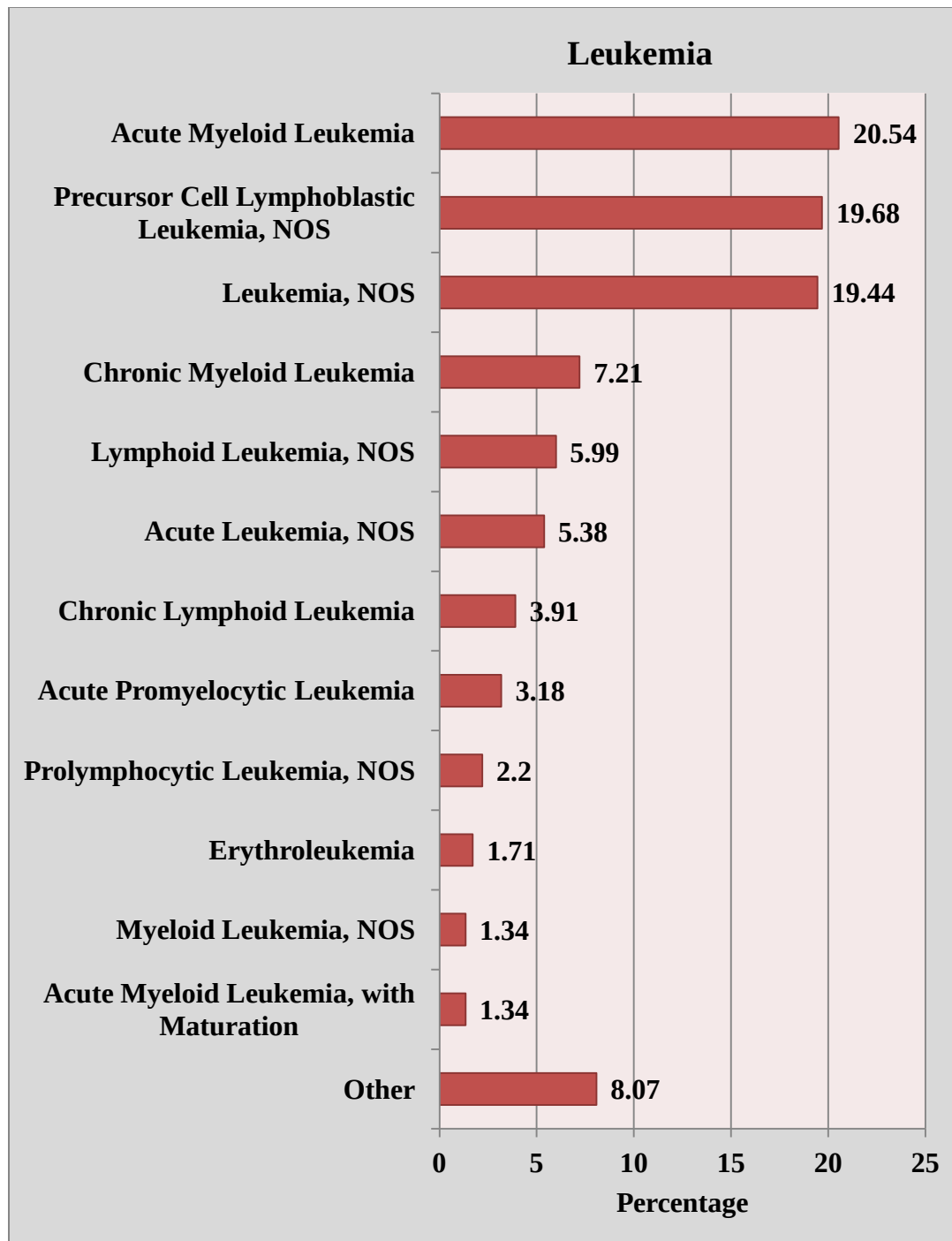
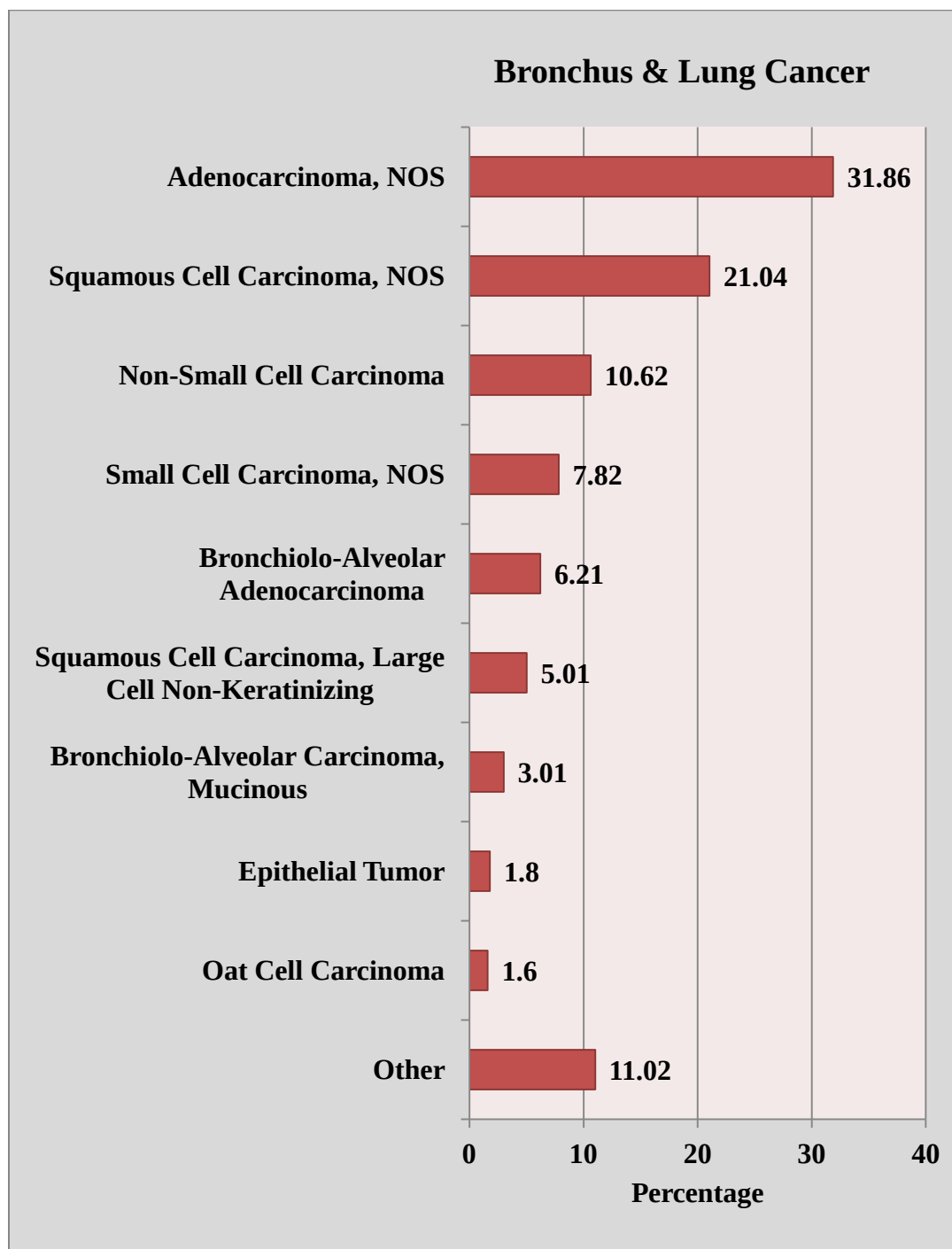


Figure No.; (81) Leukemia in females by the type of morphology, Iraq, 2018



**Figure No.; (82) Bronchus & Lung cancer in female by the type of morphology,
Iraq, 2018**



**Figure No.; (83) Ovary cancer in females by the type of morphology,
Iraq, 2018**

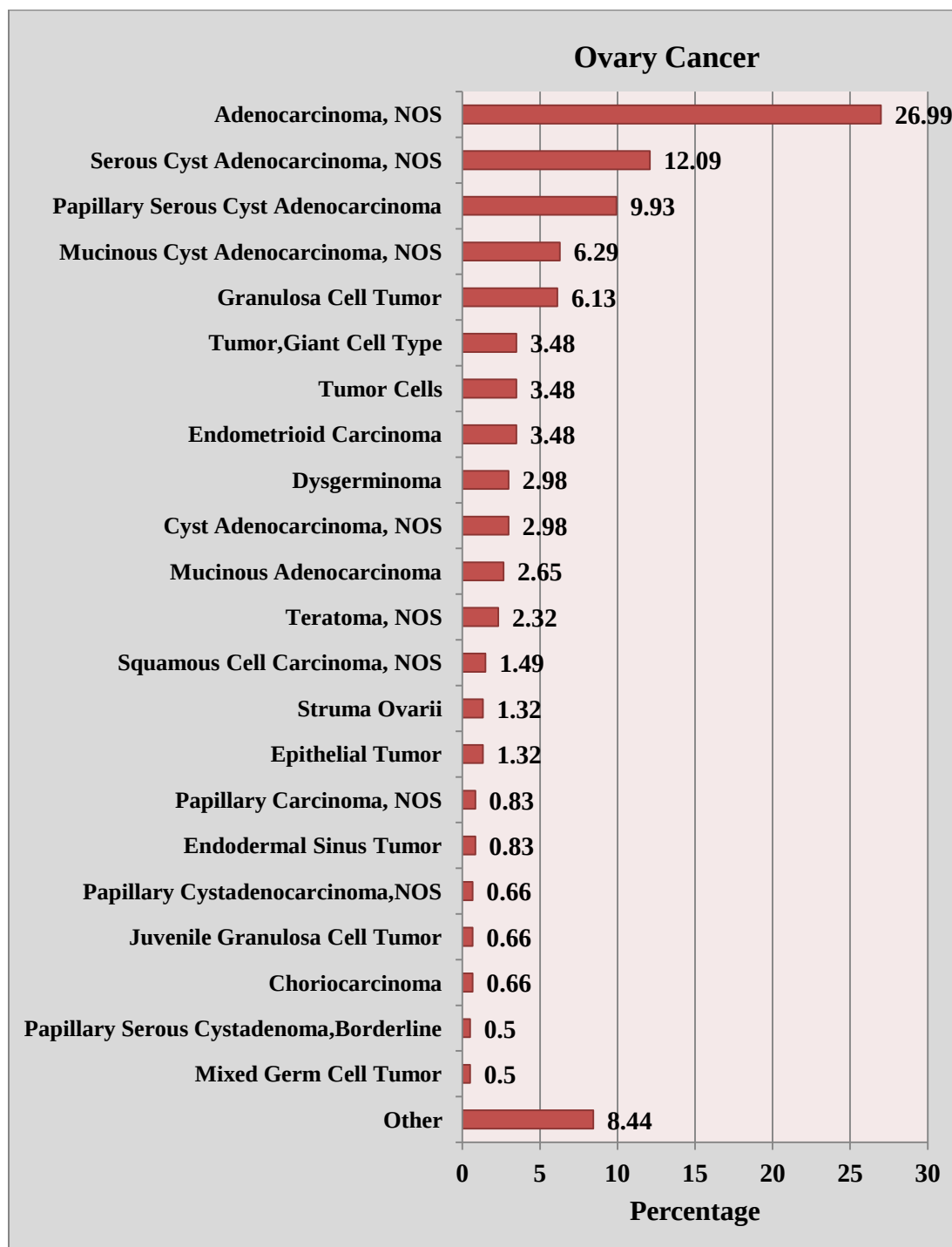
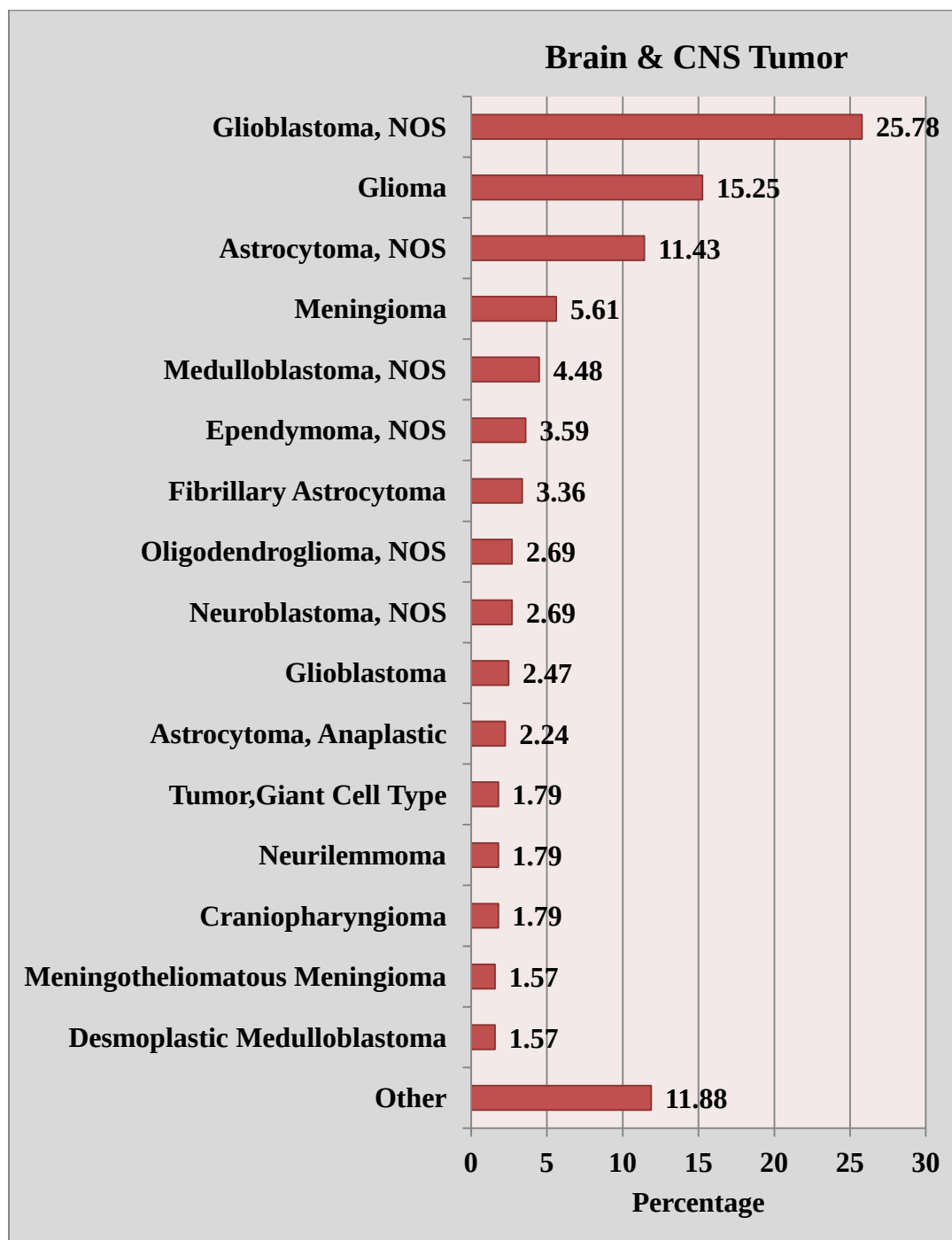
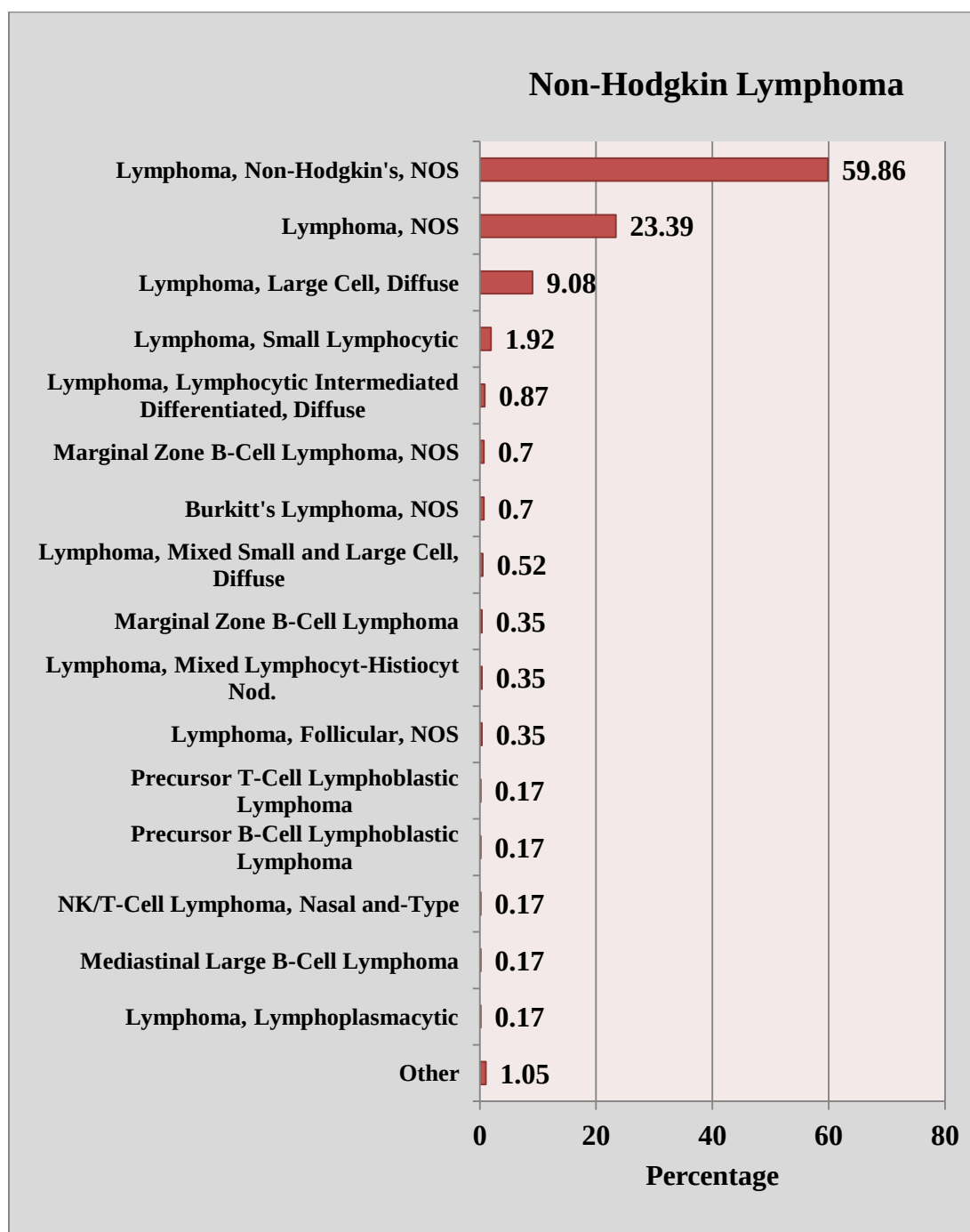


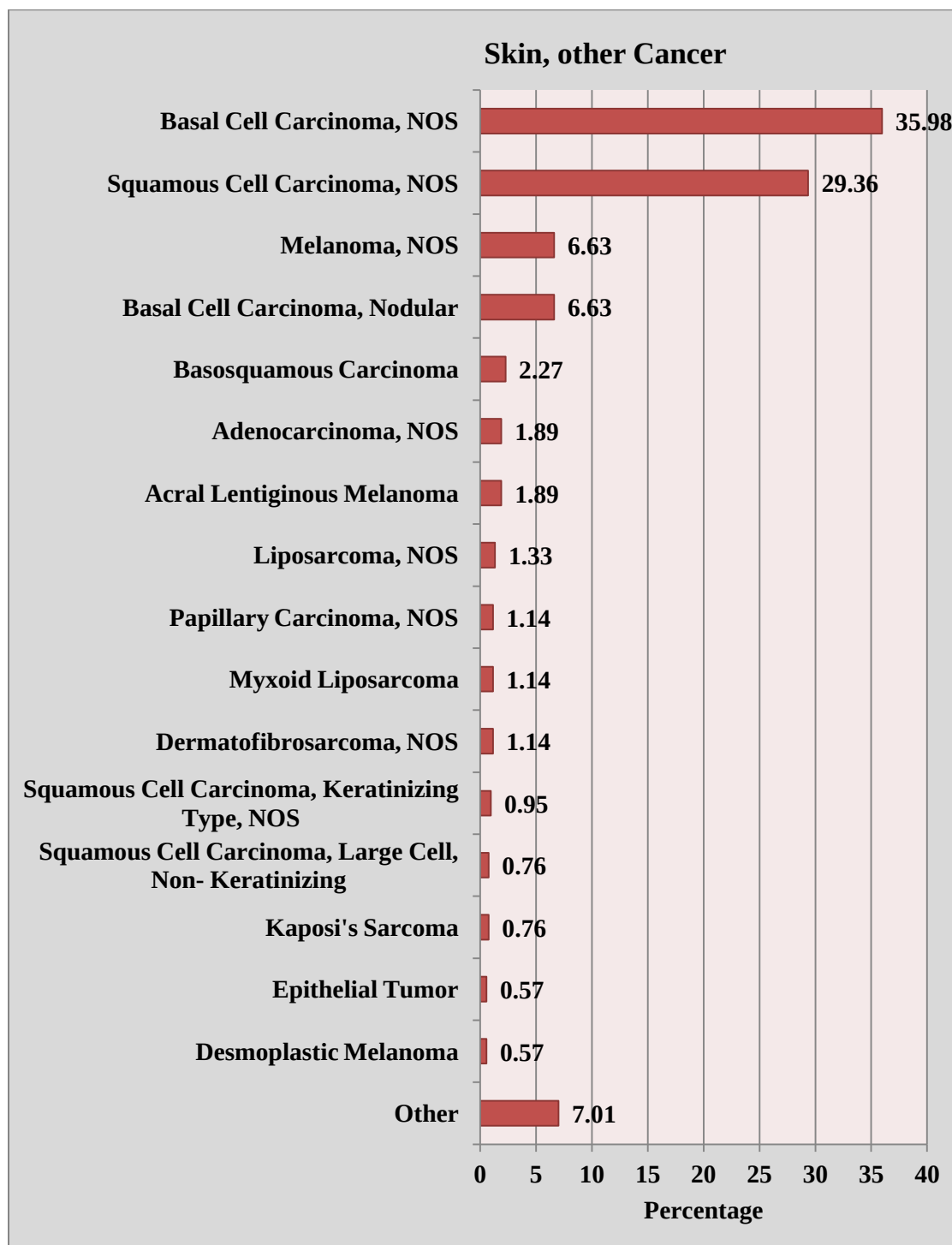
Figure No.; (84) Brain & other CNS Tumor in females by the type of morphology, Iraq, 2018



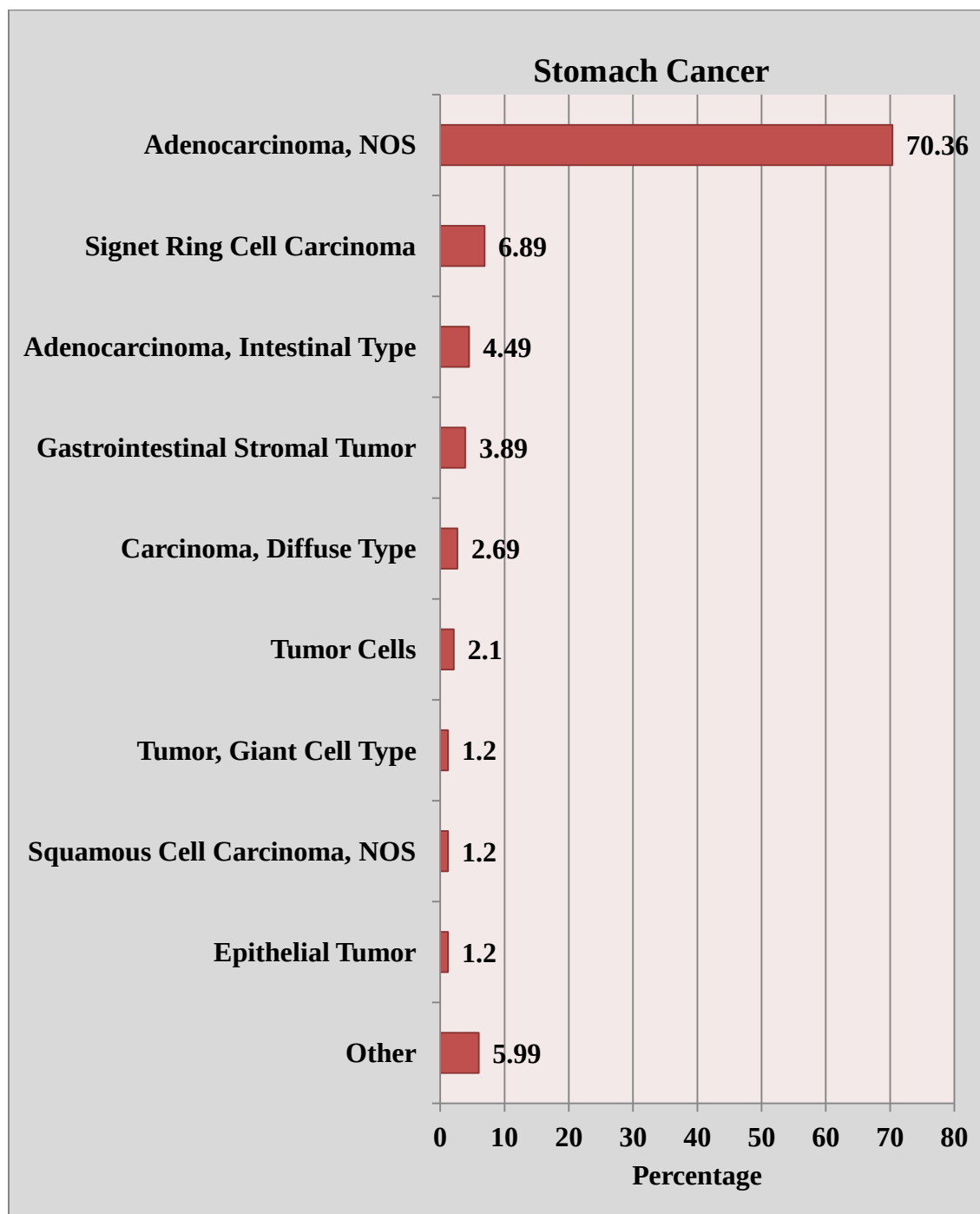
**Figure No.; (85) Non-Hodgkin Lymphoma in females by the type of morphology,
Iraq, 2018**



**Figure No.; (86) Skin, other cancer in females by the type of morphology,
Iraq, 2018**



**Figure No.; (87) Stomach cancer in females by the type of morphology,
Iraq, 2018**



Results

Child Cancer 0-14 Years *in Iraq 2018*

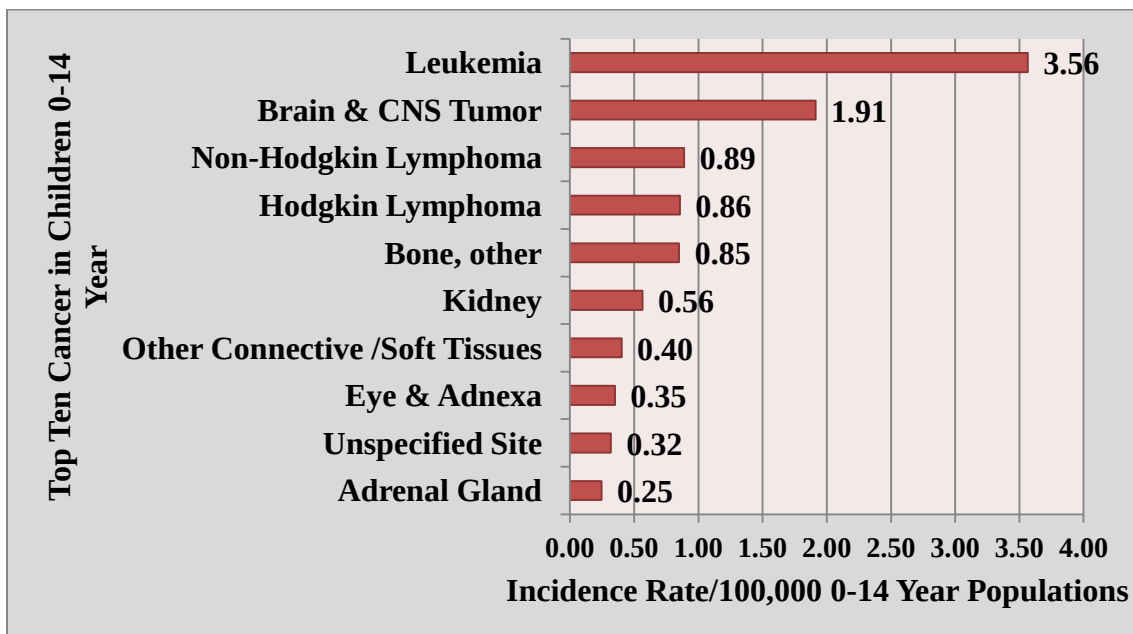
3.6. Child cancer 0-14 years in Iraq in 2018:

3.6.1. Distribution and the incidence rate of top ten cancers in children 0-14 year, Iraq, 2018:

Table No.; (90) Distribution of top ten cancers in children 0-14 year, Iraq, 2018

Top Ten		No.	%
1	Leukemia	550	32.07
2	Brain & CNS Tumor	295	17.20
3	Non-Hodgkin Lymphoma	137	7.99
4	Hodgkin Lymphoma	132	7.70
5	Bone, other	131	7.64
6	Kidney	87	5.07
7	Other Connective /Soft Tissues	62	3.62
8	Eye & Adnexa	54	3.15
9	Unspecified Site	49	2.86
10	Adrenal Gland	38	2.22
Total Top Ten		1535	89.50
Total other Site		180	10.50
Total		1,715	100.00%

Figure No.; (88) Incidence rate of top ten cancers in children 0-14 year /100, 000 children 0-14 year populations, Iraq, 2018

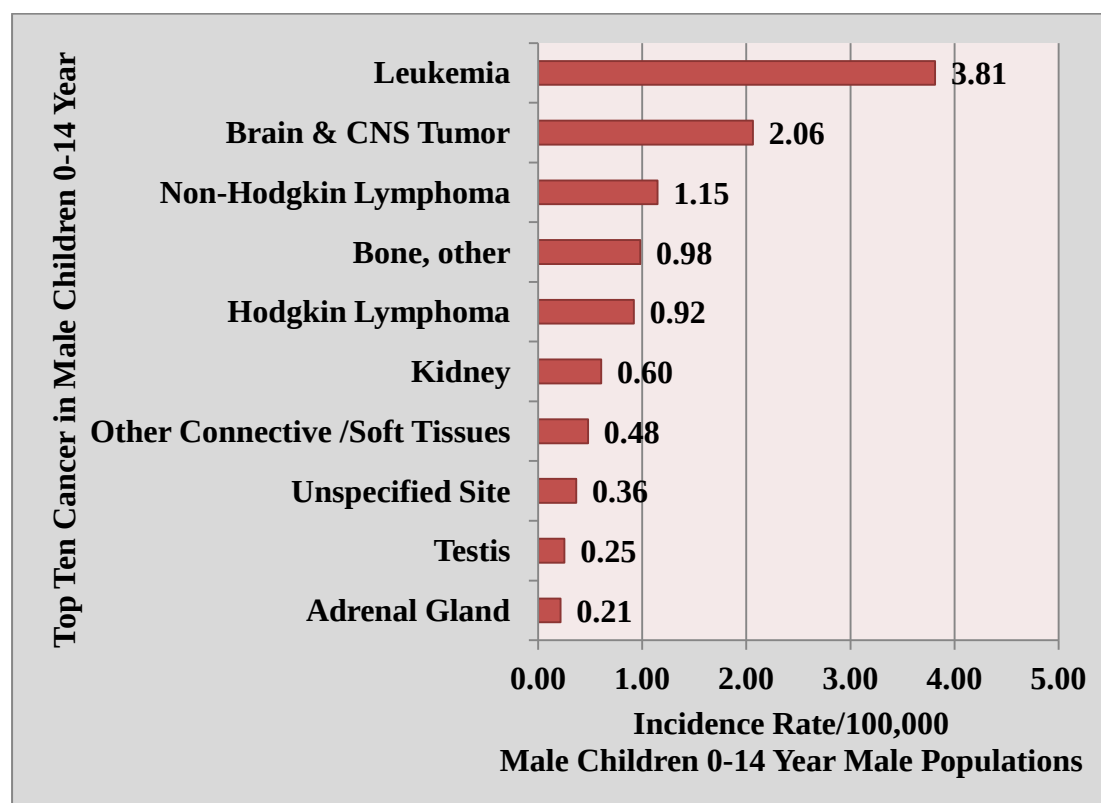


3.6.2. Distribution and the incidence rate of top ten cancers in male children 0-14 year, Iraq, 2018:

Table No.; (91) Distribution of top ten cancers in male children 0-14 year, Iraq, 2018

Top Ten	No.	%
1 Leukemia	303	32.03
2 Brain & CNS Tumor	164	17.34
3 Non-Hodgkin Lymphoma	91	9.62
4 Bone, other	78	8.25
5 Hodgkin Lymphoma	73	7.72
6 Kidney	48	5.07
7 Other Connective /Soft Tissues	38	4.02
8 Unspecified Site	29	3.07
9 Testis	20	2.11
10 Adrenal Gland	17	1.80
Total Top Ten	861	91.01
Total other Site	85	8.99
Total	946	100.00%

Figure No.; (89) Incidence rate of top ten cancers in male children 0-14 year /100, 000 male children 0-14 year populations, Iraq, 2018

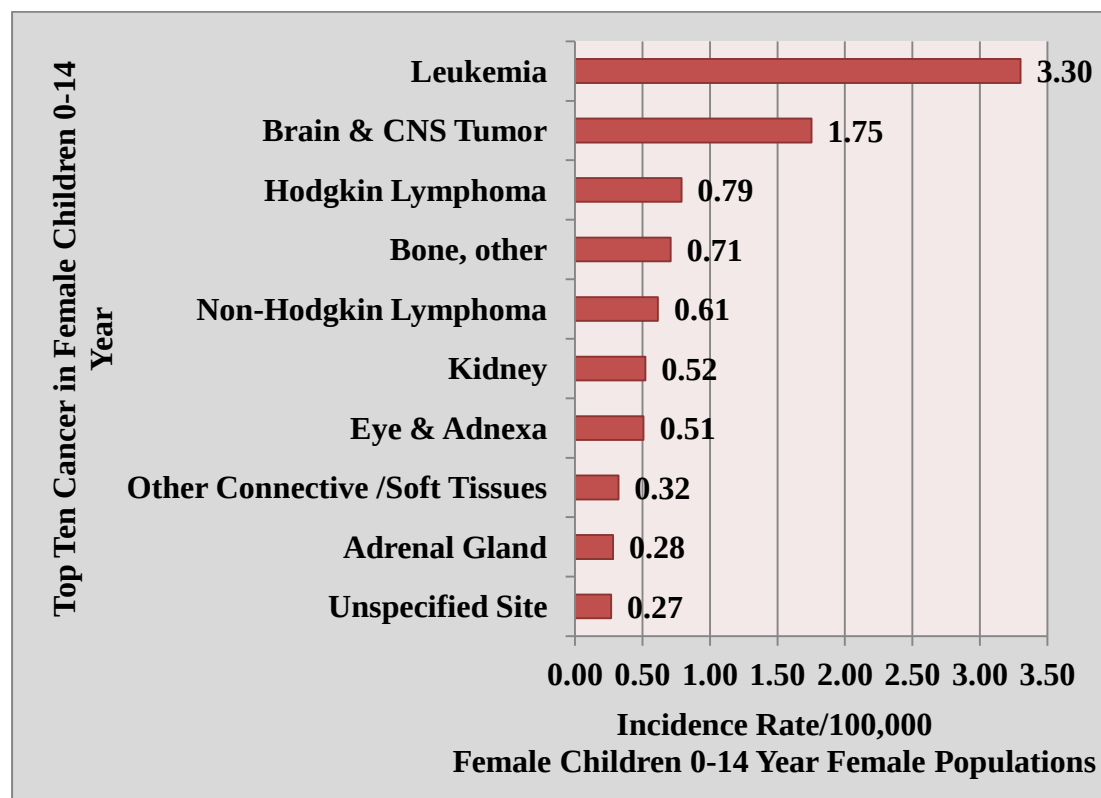


3.6.3. Distribution and the incidence rate of top ten cancers in female children 0-14 year, Iraq, 2018:

Table No.; (92) Distribution of top ten cancers in female children 0-14 year, Iraq, 2018

Top Ten		No.	%
1	Leukemia	247	32.12
2	Brain & CNS Tumor	131	17.04
3	Hodgkin Lymphoma	59	7.67
4	Bone - Other	53	6.89
5	Non-Hodgkin Lymphoma	46	5.98
6	Kidney	39	5.07
7	Eye & Adnexa	38	4.94
8	Other Connective /Soft Tissues	24	3.12
9	Adrenal Gland	21	2.73
10	Unspecified Site	20	2.60
Total Top Ten		678	88.17
Total other Site		91	11.83
Total		769	100.00%

Figure No.; (90) Incidence rate of top ten cancers in female children 0-14 year /100, 000 female children 0-14 year populations, Iraq, 2018



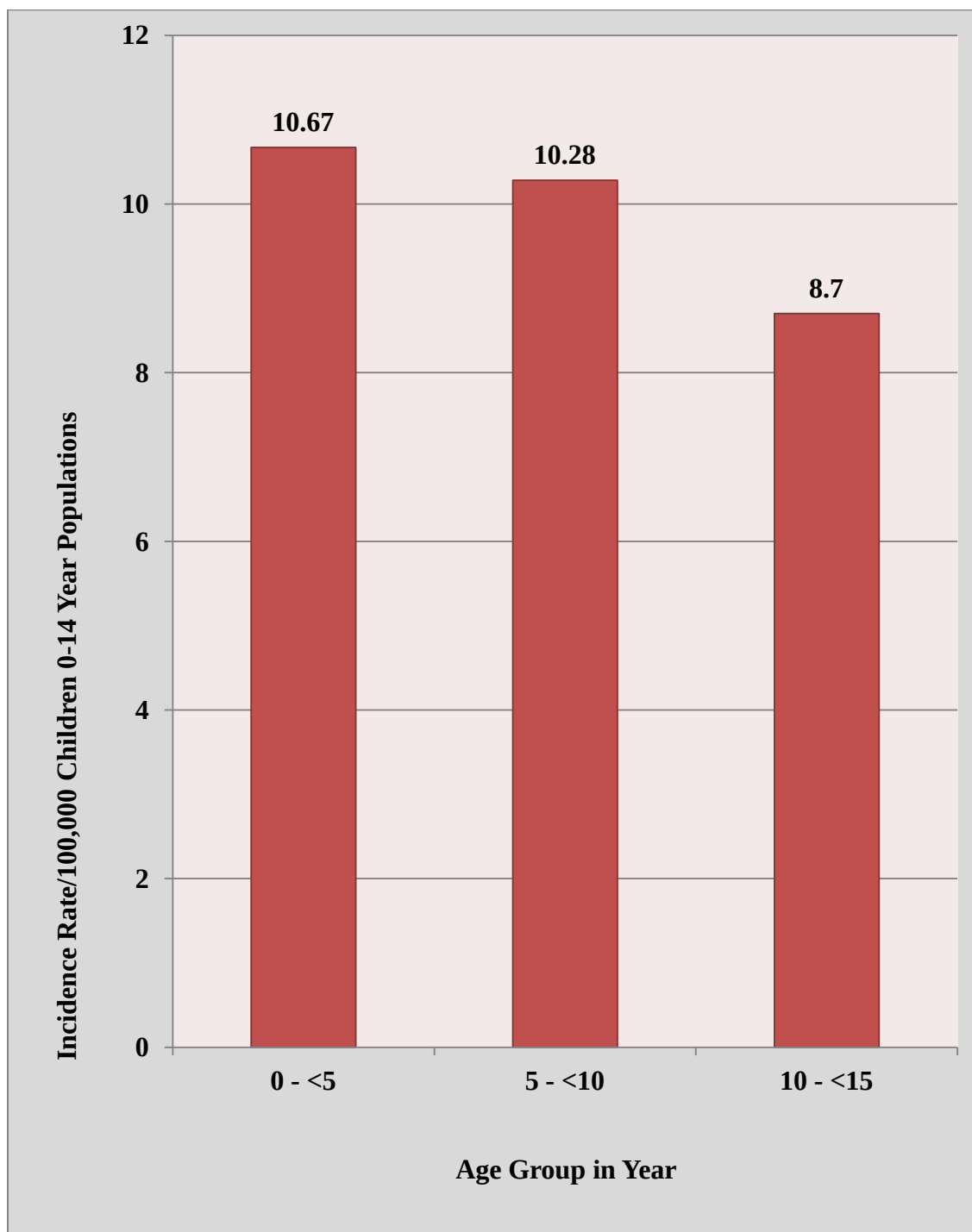
3.6.4. Distribution and the incidence rate of top ten cancers in children 0-14year by site and age group, Iraq, 2018

. Table No.; (93), Figure No.; (91) shows the distribution and the incidence rate of top ten cancers in Iraq in children by site and age group.

Table No.; (93) Distribution of top ten cancers in children 0-14 year by site and age group, Iraq, 2018

Top Ten	0 - <5		5 - <10	10 - <15	Total
	0 - <1	1 - <5			
Leukemia	6	206	197	141	550
Brain & CNS Tumor	3	106	109	77	295
Non-Hodgkin Lymphoma	2	56	47	32	137
Hodgkin Lymphoma	0	23	63	46	132
Bone, other	2	15	44	70	131
Kidney	7	56	23	1	87
Other Connective /Soft Tissues	0	21	20	21	62
Eye & Adnexa	2	43	7	2	54
Unspecified Site	5	18	14	12	49
Adrenal Gland	1	25	11	1	38
Total Top Ten	28	569	535	403	1,535
Total other Site	5	77	42	56	180
Total	33	646	577	459	1,715
Percentage	1.92	37.67	33.64	26.76	100.00%

Figure No.; (91) Incidence rate of top ten cancers in children 0-14 year /100,000 children 0-14 year populations by age group, Iraq, 2018



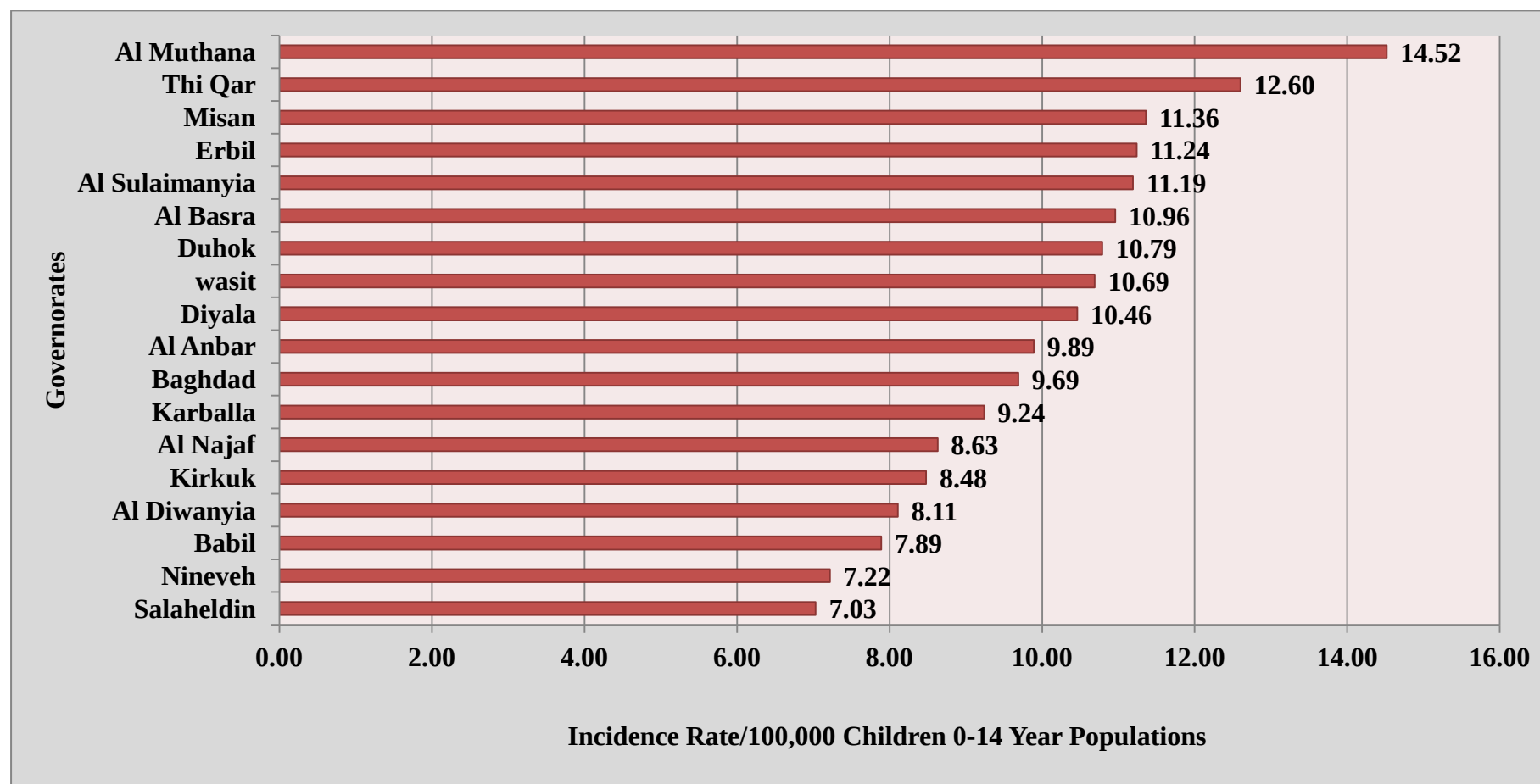
3.6.5. Distribution of top ten cancers in children 0-14year by site and governorates, Iraq, 2018:

Table No.; (), Figure No.; () shows the distribution and the incidence rate of top ten cancers in Iraq in children by site and governorates.

Table No.; (94) Distribution of top ten cancers in children 0-14year by site and governorates, Iraq, 2018

Top Ten	Al Anbar	Al Basra	Al Diwanyia	Al Muthana	Al Najaf	Al Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah eldin	Thi Qar	wasit	Un.	Total
Leukemia	23	61	17	9	13	16	23	108	23	16	33	13	19	20	46	17	52	30	11	550
Brain & CNS Tumor	7	33	5	13	13	32	9	58	10	15	12	13	6	11	15	9	17	11	6	295
Non-Hodgkin Lymphoma	18	10	7	3	7	0	4	19	9	3	2	5	7	8	15	6	5	5	4	137
Hodgkin Lymphoma	9	5	6	6	3	13	2	20	6	8	5	3	6	4	13	3	11	5	4	132
Bone, other	2	10	6	8	5	7	10	22	2	4	7	6	4	4	14	3	11	4	2	131
Kidney	3	2	0	1	4	6	8	17	6	4	11	1	3	1	5	4	5	3	3	87
Other Connective /Soft Tissues	6	2	1	1	2	6	5	12	3	3	5	2	4	1	4	1	1	2	1	62
Eye & Adnexa	4	7	1	0	3	1	6	7	4	2	2	1	2	2	3	2	6	1	0	54
Unspecified Site	2	1	2	5	2	0	1	22	2	1	1	1	1	2	0	2	2	1	1	49
Adrenal Gland	0	7	0	5	1	0	0	6	3	1	1	1	1	3	4	1	4	0	0	38
Total	74	138	45	51	53	81	68	291	68	57	79	46	53	56	119	48	114	62	32	1535
Percentage	4.82	8.99	2.93	3.32	3.45	5.28	4.43	18.96	4.43	3.71	5.15	3.00	3.45	3.65	7.75	3.13	7.43	4.04	2.08	100.00

Figure No.; (92) Incidence rate of top ten cancers in children 0-14 year /100,000 children 0-14 year populations by governorates, Iraq, 2018



3.6.5. Distribution and incidence rate of cancer in children 0-14 year by site, ICD-O and gender, Iraq, 2010:

Table No.; (95) Distribution and incidence rate of cancers in children 0-14 year / 100, 000 children 0-14 year populations by site, gender and ICD-O, Iraq, 2018

ICD-O / Site		Male			Female			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip		2	0.12	0.03	3	0.17	0.04	5	0.29	0.03
C02 / Tongue, other		1	0.06	0.01	0	0.00	0.00	1	0.06	0.01
C06 / Mouth - other		1	0.06	0.01	4	0.23	0.05	5	0.29	0.03
C07 / Parotid Gland		1	0.06	0.01	1	0.06	0.01	2	0.12	0.01
C11 / Nasopharynx		4	0.23	0.05	2	0.12	0.03	6	0.35	0.04
C16 / Stomach		1	0.06	0.01	1	0.06	0.01	2	0.12	0.01
C18 / Colon		0	0.00	0.00	2	0.12	0.03	2	0.12	0.01
C22 / Liver & Bile Ducts		9	0.52	0.11	16	0.93	0.21	25	1.46	0.16
C25 / Pancreas		0	0.00	0.00	1	0.06	0.01	1	0.06	0.01
C30 / Nasal Cavity		0	0.00	0.00	1	0.06	0.01	1	0.06	0.01
C31 / Accessory Sinus		0	0.00	0.00	1	0.06	0.01	1	0.06	0.01
C34 / Bronchus & Lung		1	0.06	0.01	0	0.00	0.00	1	0.06	0.01
C37 / Thymus		1	0.06	0.01	2	0.12	0.03	3	0.17	0.02
C38 / Heart, Mediastinum, Pleura		5	0.29	0.06	4	0.23	0.05	9	0.52	0.06
C40 / Bone & Cartilage, Limbs		32	1.87	0.40	21	1.22	0.28	53	3.09	0.34
C41 / Bones & Cartilage, other		46	2.68	0.58	32	1.87	0.43	78	4.55	0.51
C42 / Reticulo-endothelial & Hematopoietic System	Chronic Myeloproliferative Disorders	1	0.06	0.01	0	0.00	0.00	1	0.06	0.01
	Leukemia	303	17.67	3.81	247	14.40	3.30	550	32.07	3.56
	Myelodys Plastic Syndromes	1	0.06	0.01	3	0.17	0.04	4	0.23	0.03
	Plasma Cell Tumor	2	0.12	0.03	1	0.06	0.01	3	0.17	0.02
C44 / Skin, other		7	0.41	0.09	7	0.41	0.09	14	0.82	0.09
C47 / Nervous, Peripheral & A.N.S.		3	0.17	0.04	1	0.06	0.01	4	0.23	0.03
C48 / Retro peritoneum & Peritoneum		2	0.12	0.03	1	0.06	0.01	3	0.17	0.02
C49 / Other connective/Soft Tissues		38	2.22	0.48	24	1.40	0.32	62	3.62	0.40
C50 / Breast		0	0.00	0.00	1	0.06	0.01	1	0.06	0.01
C52 / Vagina		0	0.00	0.00	2	0.12	0.03	2	0.12	0.03
C56 / Ovary		0	0.00	0.00	14	0.82	0.19	14	0.82	0.19
C58 / Placenta		0	0.00	0.00	1	0.06	0.01	1	0.06	0.01
C62 / Testis		20	1.17	0.25	0	0.00	0.00	20	1.17	0.25
C64 / Kidney		48	2.80	0.60	39	2.27	0.52	87	5.07	0.56
C67 / Urinary Bladder		8	0.47	0.10	1	0.06	0.01	9	0.52	0.06
C69 / Eye & Adnexa		16	0.93	0.20	38	2.22	0.51	54	3.15	0.35
C70 / Meninges		3	0.17	0.04	0	0.00	0.00	3	0.17	0.02
C71 / Brain		150	8.75	1.89	115	6.71	1.54	265	15.45	1.72
C72 / Nervous System, other		8	0.47	0.10	11	0.64	0.15	19	1.11	0.12
C73 / Thyroid Gland		5	0.29	0.06	12	0.70	0.16	17	0.99	0.11
C74 / Adrenal Gland		17	0.99	0.21	21	1.22	0.28	38	2.22	0.25
C75 / Endocrine Gland, other		4	0.23	0.05	5	0.29	0.07	9	0.52	0.06
C76 / Unspecified Site		29	1.69	0.36	20	1.17	0.27	49	2.86	0.32
C77 / Lymphoma Nodes	Hodgkin Lymphoma	73	4.26	0.92	59	3.44	0.79	132	7.70	0.86
	Non-Hodgkin Lymphoma	91	5.31	1.15	46	2.68	0.61	137	7.99	0.89
C80 / Unknown Primary Site		13	0.76	0.16	9	0.52	0.12	22	1.28	0.14
Total		946	55.16	11.90	769	44.84	10.28	1715	100.00	11.12

Results

Cancer Mortality in Iraq *2018*

3.7. Cancer mortality in Iraq in 2018:

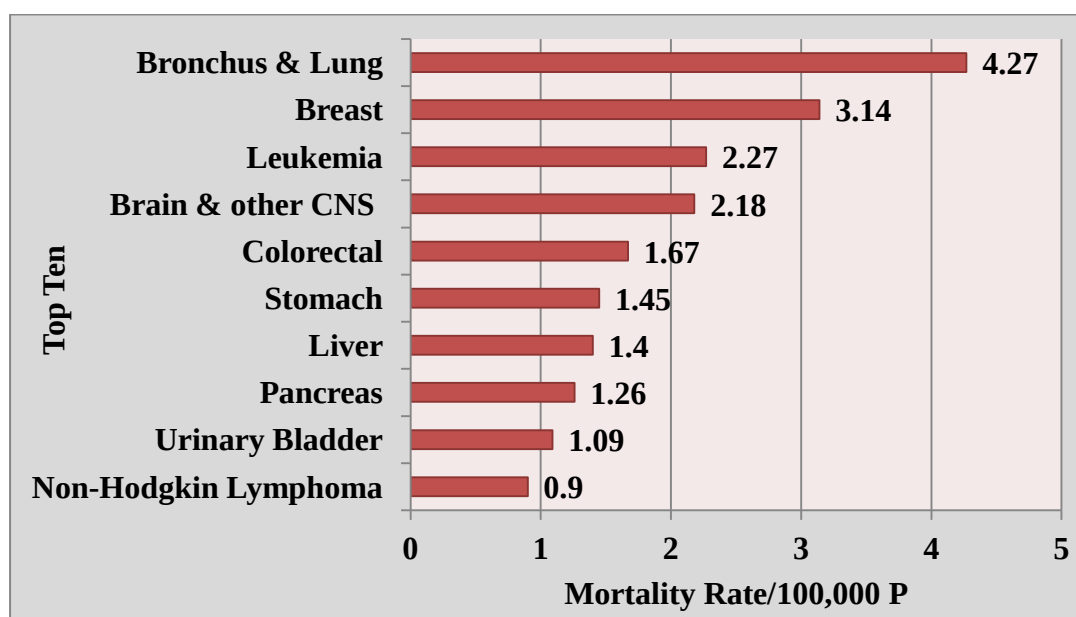
3.7.1. Distribution and mortality rate of the top ten cancers, Iraq, 2018:

Table No.; (96), Figure No.; (93) shows the distribution of top ten cancers in Iraq, it shows that the highest percentage and mortality rate was bronchus & lung cancer, while the lowest was Non-Hodgkin Lymphoma.

Table No.; (96) Distribution of top ten cancers mortality, Iraq, 2018

Top Ten		No.	%
1	Bronchus & Lung	1,628	15.82
2	Breast	1,198	11.64
3	Leukemia	865	8.40
4	Brain & CNS	830	8.06
5	Colorectal	637	6.19
6	Stomach	554	5.38
7	Liver	535	5.20
8	Pancreas	479	4.65
9	Urinary Bladder	417	4.05
10	Non-Hodgkin Lymphoma	343	3.33
Total Top Ten		7,486	72.73
Total other Site		2,807	27.27
Total		10,293	100.00%

Figure No.; (93) Mortality rate of top ten cancers in Iraq/ 100,000 populations, 2018



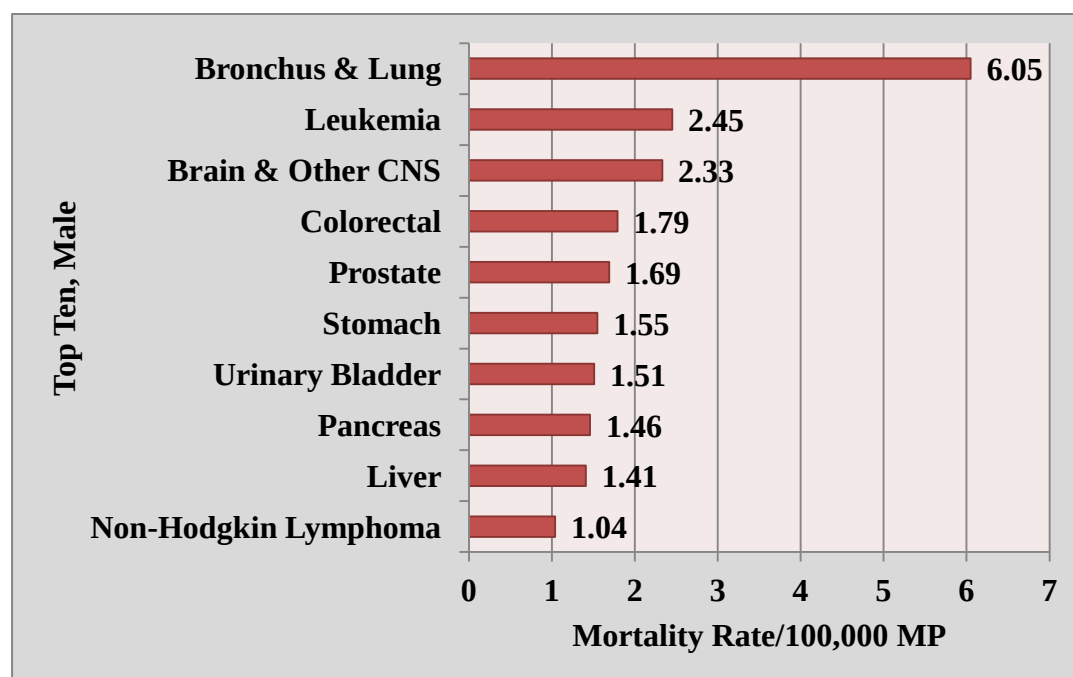
3.7.2. Distribution and mortality rate of the top ten cancers in male, Iraq, 2018:

Table No.; (97), Figure No.; (94) shows the distribution of top ten cancers in male, it shows that the highest percentage and mortality rate was bronchus & lung cancer, while the lowest was Non-Hodgkin Lymphoma.

Table No.; (97) Distribution of top ten cancers mortality in males, Iraq, 2018

Top Ten		No.	%
1	Bronchus & Lung	1,166	22.30
2	Leukemia	472	9.03
3	Brain & Other CNS	448	8.57
4	Colorectal	345	6.60
5	Prostate	326	6.24
6	Stomach	299	5.72
7	Urinary Bladder	291	5.57
8	Pancreas	281	5.37
9	Liver	271	5.18
10	Non-Hodgkin Lymphoma	201	3.84
Total Top Ten		4,100	78.42
Total other Site		1,128	21.58
Total		5,228	100.00%

Figure No.; (94) Mortality rate of top ten cancers in male/ 100,000 male populations, Iraq, 2018



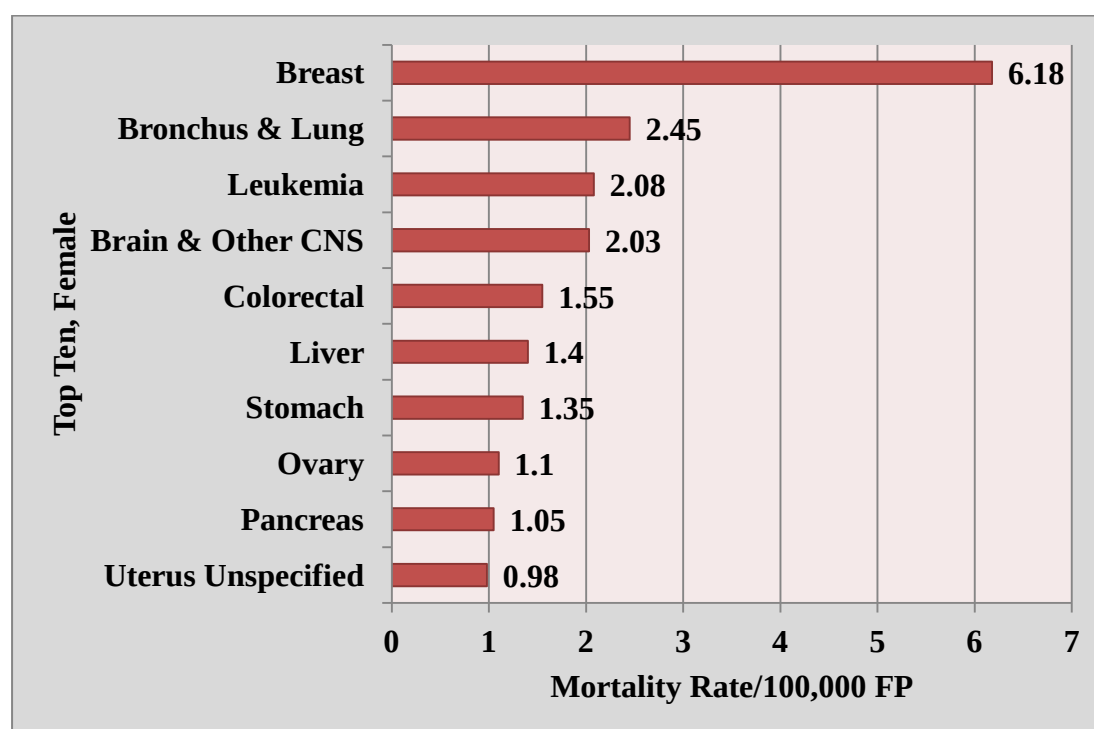
3.7.3. Distribution and mortality rate of the top ten cancers in female, Iraq, 2018:

Table No.; (98), Figure No.; (95) shows the distribution of top ten cancers in female, it shows that the highest percentage and mortality rate was breast cancer, while the lowest was uterus unspecified cancer.

Table No. (98) Distribution of top ten cancers mortality in female, Iraq, 2018

Top Ten		No.	%
1	Breast	1166	23.02
2	Bronchus & Lung	462	9.12
3	Leukemia	393	7.76
4	Brain & Other CNS	382	7.54
5	Colorectal	292	5.77
6	Liver	264	5.21
7	Stomach	255	5.03
8	Ovary	208	4.11
9	Pancreas	198	3.91
10	Uterus Unspecified	184	3.63
Total Top Ten		3,804	75.10
Total other Site		1,261	24.90
Total		5,065	100.00%

Figure No.; (95) Mortality rate of top ten cancers in female/ 100,000 female populations, Iraq, 2018



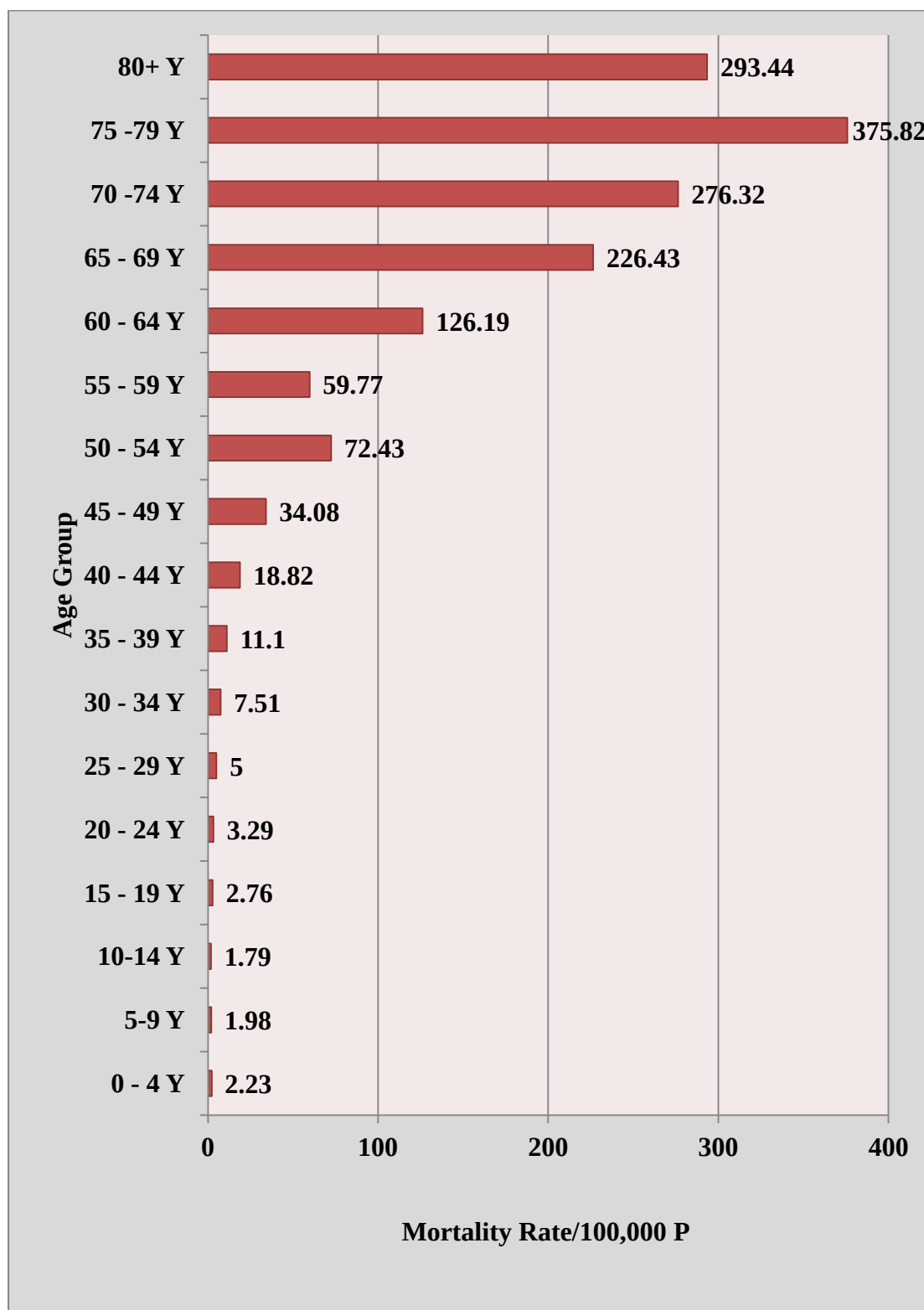
3.7.4. Distribution and mortality rate of the top ten cancers by site and age group, Iraq, 2018:

Table No.; (99), Figure No.; (96) shows the distribution and mortality rate of top ten cancers in Iraq by site and age group.

Table No.; (99) Distribution of top ten cancers mortality in Iraq by site and age group, 2018

Top Ten	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+	Total
Bronchus & Lung	0	0	2	0	9	15	12	19	34	61	117	123	242	321	275	206	192	1628
Breast	0	0	0	0	7	10	53	64	127	140	197	121	148	119	86	55	71	1198
Leukemia	60	50	40	64	33	37	28	31	45	54	60	44	79	74	57	55	54	865
Brain & Other CNS	38	40	31	21	25	26	41	50	43	67	68	52	91	95	55	35	52	830
Colorectal	1	0	0	2	15	19	16	22	38	51	70	77	67	86	63	57	53	637
Stomach	0	0	0	6	7	12	18	28	37	57	65	40	65	65	47	53	54	554
Liver	6	1	1	4	4	6	5	7	21	37	43	46	66	91	65	53	79	535
Pancreas	0	1	0	0	3	2	3	6	19	23	36	65	74	82	59	50	56	479
Urinary Bladder	0	2	2	0	2	1	3	3	4	9	27	21	46	81	86	62	68	417
Non-Hodgkin Lymphoma	20	9	7	16	11	14	13	15	16	19	35	25	35	38	30	22	18	343
Total	125	103	83	113	116	142	192	245	384	518	718	614	913	1052	823	648	697	7486
Percentage	1.67	1.38	1.11	1.51	1.55	1.90	2.56	3.27	5.13	6.92	9.59	8.20	12.20	14.05	10.99	8.66	9.31	100.00

Figure No.; (96) Mortality rate of top ten cancers in Iraq/100,000 populations by age group, 2018



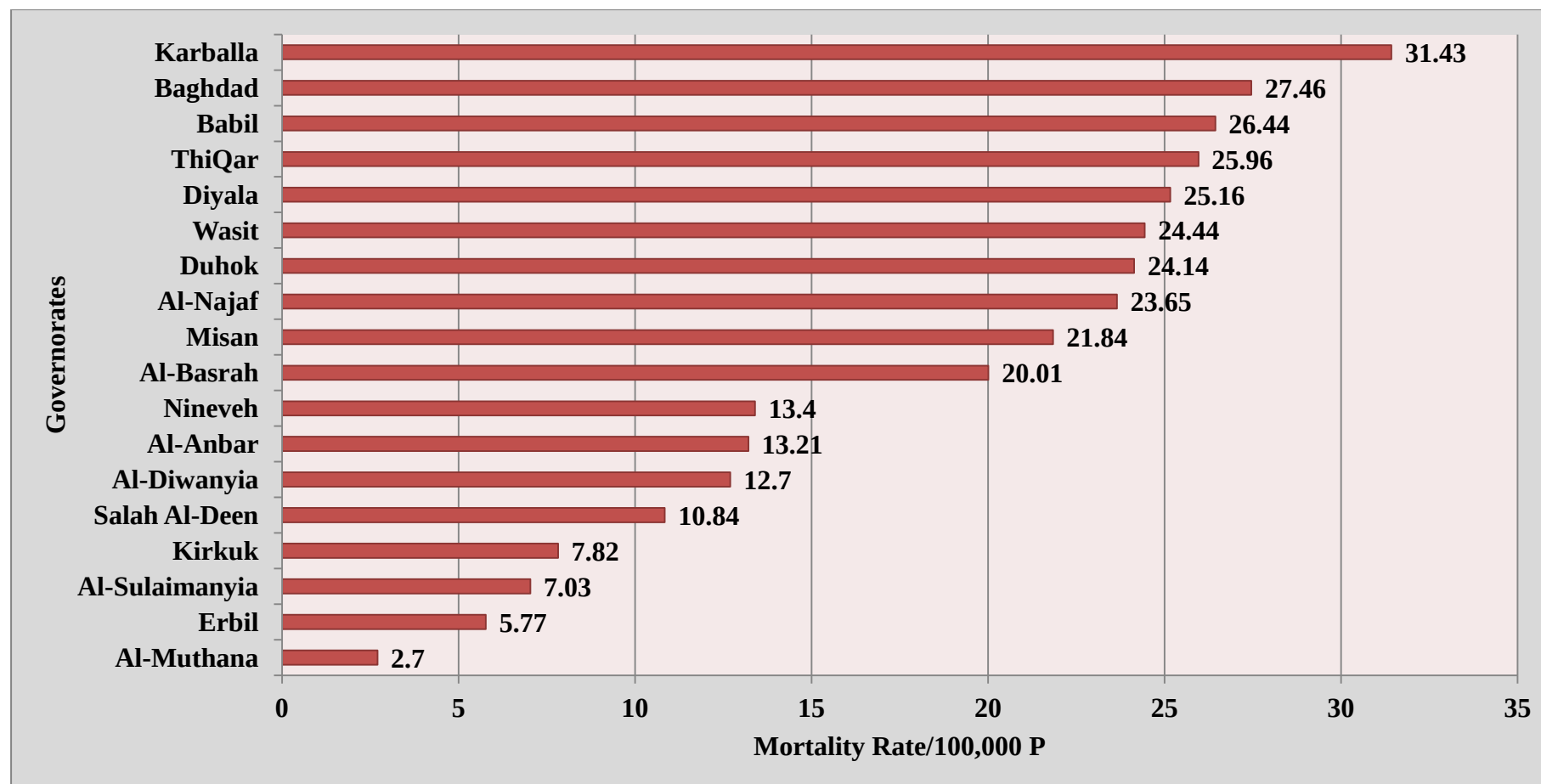
3.7.5. Distribution and mortality rate of the top ten cancers by site and governorates, Iraq, 2018:

Table No.; (100), Figure No.; (97) shows the distribution and the mortality rate of top ten cancers in Iraq by site and governorates.

Table No.; (100) Distribution of top ten cancers mortality in Iraq by site and governorates, Iraq, 2018

Top Ten	Al-Anbar	Al-Basrah	Al-Diwanyia	Al-Muthana	Al-Najaf	Al-Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah Al-Deen	ThiQar	Wasit	Un.	Total
Bronchus & Lung	30	119	58	0	77	39	127	424	76	87	20	99	38	57	101	25	163	76	12	1628
Breast	19	102	22	1	58	29	73	425	70	34	5	52	23	34	73	34	64	60	20	1198
Leukemia	21	95	18	13	38	19	59	232	30	29	30	49	17	31	58	23	52	44	7	865
Brain & Other CNS	13	59	19	1	39	9	66	240	66	46	6	54	6	34	60	14	65	30	3	830
Colorectal	42	39	11	2	19	16	60	178	42	33	10	28	10	14	53	11	42	21	6	637
Stomach	37	40	6	1	27	17	34	152	44	27	8	22	6	14	49	23	25	16	6	554
Liver	16	14	8	0	25	3	31	172	39	24	2	27	9	16	50	13	48	38	0	535
Pancreas	15	42	1	0	30	9	48	148	22	14	5	22	13	11	25	14	34	18	8	479
Urinary Bladder	4	34	13	1	20	8	37	110	11	10	4	27	1	21	23	10	49	30	4	417
Non-Hodgkin Lymphoma	37	38	8	3	15	3	11	151	12	8	17	3	2	11	8	6	2	4	4	343
Total	234	582	164	22	348	152	546	2232	412	312	107	383	125	243	500	173	544	337	70	7486
Percentage	3.13	7.77	2.19	0.29	4.65	2.03	7.29	29.82	5.50	4.17	1.43	5.12	1.67	3.25	6.68	2.31	7.27	4.50	0.94	100.00

Figure No.; (97) Mortality rate of top ten cancers in Iraq/100,000 populations by governorates, 2018



Results

Cancer among Non Iraqis **in Iraq 2018**

3.8. Cancer among Non Iraqis in Iraq in 2018:

3.8.1. Distribution of cancers among Non Iraqis by site, ICD-O, and gender:

Table No.; (101) Distribution of cancers among Non Iraqis in Iraq by ICD-O, site and gender, Iraq, 2018

ICD-O / Site		ICD-O	Male		Female		Total	
			No.	%	No.	%	No.	%
Breast		C50	1	0.76	38	29.01	39	29.77
Bronchus & Lung		C34	12	9.16	6	4.58	18	13.74
Reticuloendothelial & Hematopoietic System	Leukemia	4	3.05	5	3.82	3.05	9	6.87
	Myelodys Plastic Syndromes	1	0.76	0	0.00	0.76	1	0.76
	Plasma Cell Tumor	1	0.76	0	0.00	0.76	1	0.76
Lymph Node	Hodgkin Lymphoma	3	2.29	3	2.29	2.29	6	4.58
	Non-Hodgkin Lymphoma	2	1.53	0	0.00	1.53	2	1.53
Pancreas		C25	2	1.53	3	2.29	5	3.82
Liver & Bile Ducts		C22	4	3.05	0	0.00	4	3.05
Uterus Unspecified		C55	0	0.00	4	3.05	4	3.05
Ovary		C56	0	0.00	4	3.05	4	3.05
Urinary Bladder		C67	4	3.05	0	0.00	4	3.05
Stomach		C16	2	1.53	1	0.76	3	2.29
Skin, Other		C44	2	1.53	1	0.76	3	2.29
Prostate		C61	3	2.29	0	0.00	3	2.29
Brain		C71	1	0.76	2	1.53	3	2.29
Unknown Primary Site		C80	1	0.76	2	1.53	3	2.29
Cervix Uteri		C53	0	0.00	2	1.53	2	1.53
Testis		C62	2	1.53	0	0.00	2	1.53
Kidney		C64	1	0.76	1	0.76	2	1.53
Thyroid Gland		C73	0	0.00	2	1.53	2	1.53
Mouth - Palate		C05	0	0.00	1	0.76	1	0.76
Oesophagus		C15	0	0.00	1	0.76	1	0.76
Other Digestive Organs		C26	0	0.00	1	0.76	1	0.76
Other connective/Soft Tissues		C49	0	0.00	1	0.76	1	0.76
Corpus Uteri		C54	0	0.00	1	0.76	1	0.76
Nervous System, Other		C72	0	0.00	1	0.76	1	0.76
Adrenal gland		C74	0	0.00	1	0.76	1	0.76
Total		---	49	37.40	82	62.60	131	100.00

3.8.2. Distribution of cancers among Non Iraqis by ICD-O, site and age group:

Table No.; (102) shows the distribution of cancers among Non Iraqis by ICD-O, site and age group:

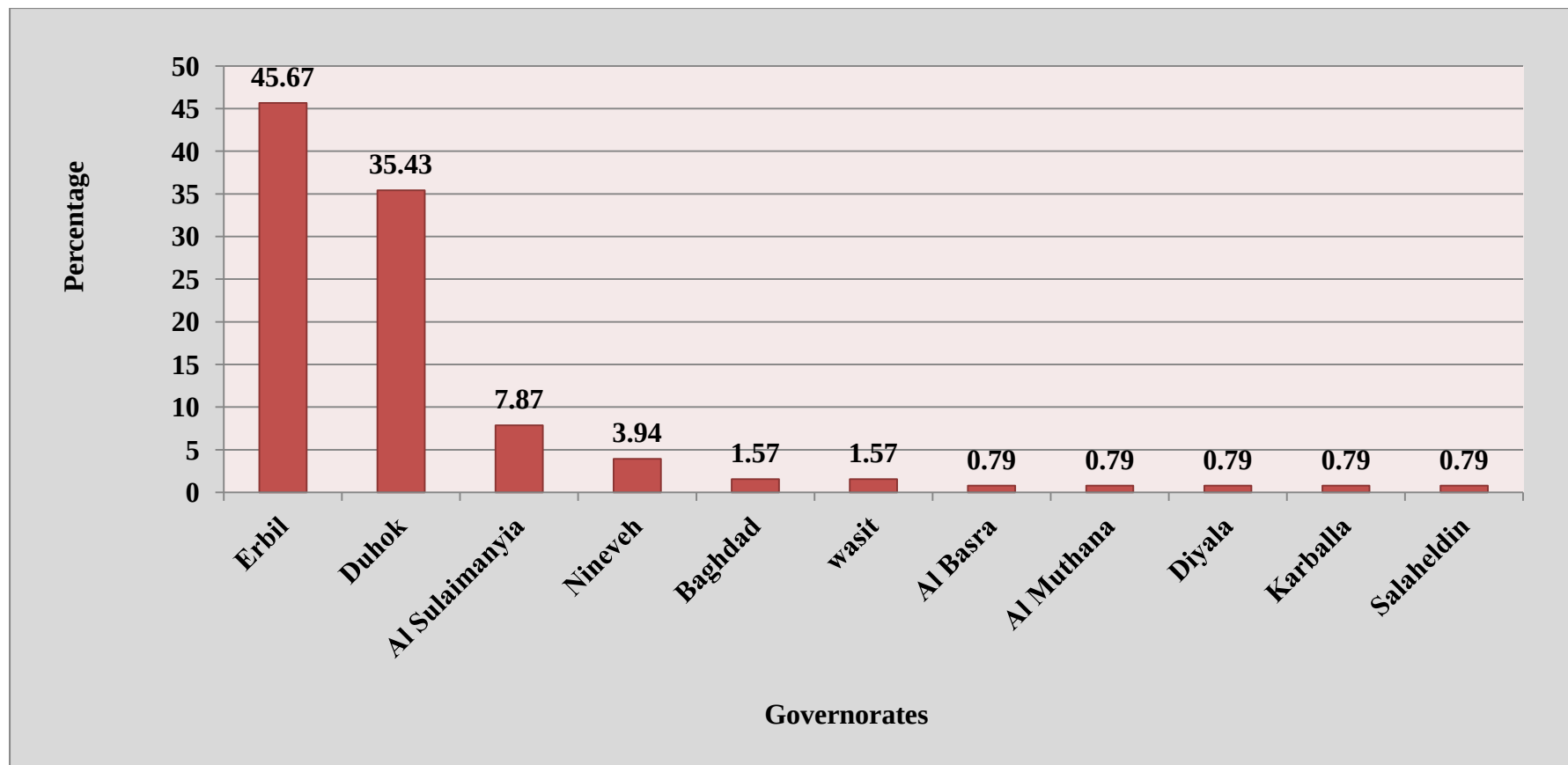
Table No.; (102) Distribution of cancers among Non Iraqis in Iraq by ICDD-O, site and age group, Iraq, 2018

ICD-O / Site	0 - <5	5 - <10	10 - <15	15 - <20	20 - <25	25 - <30	30 - <35	35 - <40	40 - <45	45 - <50	50 - <55	55 - <60	60 - <65	65 - <70	70 - <75	75 - <80	Total
C05 / Mouth - Palate	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
C15 / Oesophagus	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
C16 / Stomach	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	3
C18 / Colon	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2
C20 / Rectum	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
C22 / Liver & Bile Ducts	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	4
C25 / Pancreas	0	0	0	0	0	0	0	1	1	0	0	1	2	0	0	0	5
C26 / Other Digestive Organs	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
C34 / Bronchus & Lung	0	0	0	0	0	0	0	1	0	2	2	1	4	3	3	2	18
C42 / Leukemia	0	2	0	1	0	1	1	1	0	0	0	2	1	0	0	0	9
Reticuloendothelial & Hematopoietic System	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Myelodys Plastic Syndromes																	
Plasma Cell Tumor	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
C44 / Skin, Other	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	3
C49 / Other connective/Soft Tissues	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
C50 / Breast	0	0	0	0	1	0	3	7	6	9	5	4	2	0	1	1	39
C53 / Cervix Uteri	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	2
C54 / Corpus Uteri	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
C55 / Uterus Unspecified	0	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0	4
C56 / Ovary	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	4
C61 / Prostate	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	3
C62 / Testis	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2

ICD-O / Site	0 - <5	5 - <10	10 - <15	15 - <20	20 - <25	25 - <30	30 - <35	35 - <40	40 - <45	45 - <50	50 - <55	55 - <60	60 - <65	65 - <70	70 - <75	75 - <80	Total
C64 / Kidney	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
C67 / Urinary Bladder	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	4
C71 / Brain	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	3
C72 / Nervous System, Other	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
C73 / Thyroid Gland	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2
C74 / Adrenal gland	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
C77 / Lymph Nodes	0	0	0	1	1	2	0	1	0	0	1	0	0	0	0	0	6
Hodgkin Lymphoma	0	0	0	1	1	2	0	1	0	0	1	0	0	0	0	0	6
Non-Hodgkin Lymphoma	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2
C80 / Unknown Primary Site	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	3
Total	2	2	1	3	2	6	5	16	12	17	14	12	18	10	7	4	131
Percentage	1.53	1.53	0.76	2.29	1.53	4.58	3.82	12.21	9.16	12.98	10.69	9.16	13.74	7.63	5.34	3.05	100.00

3.8.3. Distribution of cancers among Non Iraqis by site and governorates

Figure No.; (98) Percentage of cancers among Non Iraqis in Iraq by governorates, Iraq, 2018



Annex

Annex:

Ministry Of Health Iraqi Cancer Registry			
Can Reg		☐ - ☐ ☐ ☐ ☐ ☐ ☐	
I. Patient information			
١. الاسم الاول : First Name		٢. اسم الأب : Fathers Name	
٣. اسم العائلة : Family Name		٤. اسم الأم : Mothers Name	
Sex ☐ (1.Male 2.Female 3.Unknown)	Birth Date		
Age			
Nationality ☐ (1.Iraqi 2.Arab 3.Unknown)			
Address	Telephone		
٥. العنوان : (المحافظة: المدينة: المحلة: الزقاق: دار:) Address Detail			
٦. المهنة : (١. ربة بيت ٢. عامل ٣. مزارع ٤. تقني ٥. موظف ٦. معلم ٧. مهني ٨. كاسب ٩. اخرى ١٠. غير موظف) Occupation ☐ (0.House wife 1.Manual 2.Agriculture 3.Technical 4.Office Gang 5.Teaching 6.Professional 7.Business 8.Other 9.Unknown)			
Tumour			
Diagnosis			
Basis of diagnosis ☐ (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		Morphology	
Behaviour ☐ (0.Bengin 1.Uncertain behaviour 2.In situ 3.Malignant)			
Grad ☐ (1.Grad 2.Grade II 3.Garde III 4.Garde IV 5.T-Cell 6.B-Cell 7.Null Cell 8.Killer Cell 9.Unknown)			
Extent ☐ (1.In situ 2.Localised 3.Regional:Direct Extension 4.Regioal:Lymph nodes 5.Direct L. N. ext. 7.Distant metastasis 8.Not applicable 9.Unknown)			
T ☐ (Advanced / Localizec)			
N ☐ (+/0)		Multiple Primary	
M ☐ (+/0)		ICD - 10	
Hospital		Treatment	
Hospital	Date	No Patient	Surgery ☐ (1.Yes 2.No 9.Unknown)
اسم المستشفى	اسم المستشفى	اسم المستشفى	Radiotherapy ☐ (1.Yes 2.No 9.Unknown)
اسم المستشفى	اسم المستشفى	اسم المستشفى	Chemotherapy ☐ (1.Yes 2.No 9.Unknown)
Path Lab.	Date	Path Lab. No.	Hormonal therapy ☐ (1.Yes 2.No 9.Unknown)
اسم المستشفى	اسم المستشفى	اسم المستشفى	Immunotherapy ☐ (1.Yes 2.No 9.Unknown)
Follow up			
Date of last Contact or Death			
Status ☐ (1.Dead 2.Alive)			
Cause of Death ☐ (1.Cancer 2.Other 9.Unknown)			
ملاحظة : يرجى املاء الحقول رقم (٨.٧.٦.٥.٤.٣.٢.١) باللغة العربية وترك مايقابلها لمركز التسجيل السرطاني. اسم منظم الاستمارة وتوقيعه الطبيب :			
التاريخ : ٢٠١ / /			
وزارة الصحة / مطابع دائرة العيادات الطبية الشعبية			

References

References:

[1] 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)

[4] Global Health Estimates 2015

[5] Planning and Resources Enhancement Office/Health Statistical Section/Ministry of Health/ Annual Statistical Report 2017

[6] Ministry of planning / Central Statistic Organization, 2018

أكثر عشرة انواع للسرطان شيوعا عند النساء تتمثل بسرطان الثدي (٣٤,٠٦ %) (٣٢,٣١ لكل مئة ألف من السكان من فئة النساء) وسرطان الغدة الدرقية (٦,١٣ %) (٥,٨٢ لكل مئة ألف من السكان من فئة النساء) وسرطان القولون والمستقيم (٥,١٣ %) (٤,٨٧ لكل مئة ألف من السكان من فئة النساء) وسرطان الدم (اللوكيميا) (٤,٦٨ %) (٤,٤٤ لكل مئة ألف من السكان من فئة النساء) وسرطان القصبات والرئة (٤,١٩ %) (٣,٩٨ لكل مئة ألف من السكان من فئة النساء) وسرطان المبيض (٤,٠٣ %) (٣,٨٢ لكل مئة ألف من السكان من فئة النساء) وأورام الدماغ والجهاز العصبي المركزي (٤,٠٢ %) (٣,٨١ لكل مئة ألف من السكان من فئة النساء) وسرطان الغدة المفاوية اللاهودجيني (٣,٢٩ %) (٣,١٢ لكل مئة ألف من السكان من فئة النساء) وسرطان الجلد (٣,١٢ %) (٢,٩٦ لكل مئة ألف من السكان من فئة النساء) وسرطان المعدة (٢,٥٤ %) (٢,٤١ لكل مئة ألف من السكان من فئة النساء).

و كان العدد الكلي للحالات السرطانية الجديدة المسجلة بين الأطفال (دون سن الخامسة عشر) هو ١,٧١٥ من مجموع ٣١,٥٠٢ (العدد الكلي للإصابات السرطانية ولكافة الفئات العمرية)، أكثر الفئات العمرية تعرضا للإصابة ضمن الأكثر عشرة انواع للسرطان شيوعا عند الاطفال كان ضمن الفئة العمرية اقل من خمس سنوات. وأن أعلى تقدير سنوي للإصابات بين الأطفال هو بسبب سرطان الدم (اللوكيميا) (٣,٥٦ لكل مئة ألف من السكان/ فئة الأعمار دون سن الخامسة عشر). أما فيما يتعلق بنسبة الإصابة في المحافظات فقد لوحظ ان أعلى تقدير سنوي للإصابات ضمن الأكثر عشرة انواع للسرطان شيوعا عند الاطفال كان في محافظة المثنى (١٤,٥٢ لكل مئة ألف من السكان/ فئة الأعمار دون سن الخامسة عشر)، وان أدنى تقدير سنوي للإصابات كان في محافظة محافظة صلاح الدين (٧,٠٣ لكل مئة ألف من السكان/ فئة الأعمار دون سن الخامسة عشر).

وكان العدد الكلي للوفيات بسبب السرطان خلال عام ٢٠١٨ هو ١٠,٢٩٣ وقد لوحظ أن أعلى تقدير سنوي للوفاة هو بسبب سرطان القصبات والرئة (١٥,٨٢ %) (٤,٢٧ لكل مئة ألف من السكان) كما ان أعلى تقدير سنوي للوفاة عند الرجال هو ايضا بسبب سرطان القصبات والرئة (٢٢,٣٠ %) (٦,٠٥ لكل مئة ألف من السكان من فئة الرجال) وان أعلى تقدير سنوي للوفاة عند النساء هو بسبب سرطان الثدي (٢٣,٠٢ %) (٦,١٨ لكل مئة ألف من السكان من فئة النساء). وأن أعلى الفئات العمرية تعرضا للوفاة ضمن الأكثر عشرة انواع شيوعا للسرطان هو ٧٠ سنة فأكثر. كما أن أعلى تقدير سنوي للوفاة ضمن الأكثر عشرة انواع شيوعا للسرطان سجل في محافظة كربلاء (٥,١٢ %) (٣١,٤٣ لكل مئة ألف من السكان).

و ظهر أن العدد الكلي للحالات السرطانية لغير العراقيين المسجلة لعام ٢٠١٨ في العراق يساوي ١٣١ حالة. كما أن أكثر الأعمار تأثرا للإصابة بمرض السرطان هو ٦٠-٦٤ سنة وبنسبة ١٣,٧٤ %. وقد لوحظ ان أعلى نسب للإصابات السرطانية كانت بسبب سرطان سرطان الثدي (٢٩,٧٧ %) يليه سرطان القصبات والرئة (١٣,٧٤ %) ثم سرطان الدم (اللوكيميا) (٦,٨٧ %). وقد لوحظ ان اعلى نسبة للحالات السرطانية لغير العراقيين سُجلت في محافظة اربيل (٥,٦٧ %) و ادنى نسبة للحالات السرطانية سُجلت في محافظة صلاح الدين (٠,٧٩ %).

ملخص التقرير السنوي:

يعطي التقرير السنوي للتسجيل السرطاني في العراق 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 CanReg 4.

العدد الكلي للحالات السرطانية الجديدة المسجلة خلال عام ٢٠١٨ يساوي ٣١,٥٠٢ وقد لوحظ أن أعلى الفئات العمرية تأثرا للإصابة بمرض السرطان هو ٧٠ سنة فأكثر. وان التقدير السنوي للإصابة يزداد بازدياد العمر. وفيما يتعلق بالمحافظات، لوحظ أن أعلى تقدير سنوي للإصابة في العراق كان في محافظة أربيل (١٠٤,٩٢ لكل مئة ألف من السكان). بالنسبة لفئة الرجال فإن أعلى تقدير سنوي للإصابة فقد كان أيضا في محافظة أربيل (٩٦,٩٧ لكل مئة ألف من فئة الرجال)، اما بالنسبة لفئة النساء فإن أعلى تقدير سنوي للإصابة كان في محافظة السليمانية (١١٥,٢١ لكل مئة ألف من فئة النساء) وأن أقل تقدير سنوي للإصابة في العراق فقد كان في محافظة صلاح الدين (٥٢,٨٤ لكل مئة ألف من السكان) اما بالنسبة للرجال فإن أقل تقدير سنوي كان أيضا في محافظة صلاح الدين (٤٢,٨١ لكل مئة ألف من السكان من فئة الرجال و) وبالنسبة للنساء كان في محافظة كركوك (٦٢,٨٨ لكل مئة ألف من السكان من فئة النساء).

وقد ازدادت نسبة الاصابات الجديدة بالمرض في التقدير السنوي لمرض السرطان في العراق من عام ١٩٩٤ (٣٨,٩١ لكل مئة ألف من السكان) الى عام ٢٠١٨ (٨٢,٦٢ لكل مئة ألف من السكان).

و قد ظهر أن أكثر عشرة انواع شيوعا لمرض السرطان لكلا الجنسين كانت سرطان الثدي (١٩,٧٠%) (١٦,٢٨ لكل مئة ألف من السكان) وسرطان القصبات والرئة (٨,١٩%) (٦,٧٧ لكل مئة ألف من السكان) وسرطان القولون والمستقيم (٦,١٥%) (٥,٠٨ لكل مئة ألف من السكان) وسرطان الدم (اللوكيميا) (٦,٠٣%) (٤,٩٨ لكل مئة ألف من السكان) وسرطان المثانة (٤,٨٩%) (٤,٠٤ لكل مئة ألف من السكان)، وأورام الدماغ والجهاز العصبي المركزي (٤,٨٩%) (٤,٠٤ لكل مئة ألف من السكان) وسرطان الغدة الدرقية (٤,٤٩%) (٣,٧١ لكل مئة ألف من السكان) وسرطان الغدد اللمفاوية اللا هودجكيني (٤,٠٣%) (٣,٣٣ لكل مئة ألف من السكان) وسرطان الجلد (٣,٦٣%) (٣ لكل مئة ألف من السكان) وسرطان البروستات (٣,٢٥%) (٥,٣١ لكل مئة ألف من السكان من فئة الرجال).

و كانت أكثر عشرة انواع شيوعا للسرطان عند الرجال تتمثل بسرطان القصبات والرئة (١٣,٤٤%) (٩,٥٠ لكل مئة ألف من السكان من فئة الرجال) وسرطان المثانة (٨,٦٢%) (٦,٠٩ لكل مئة ألف من السكان من فئة الرجال) وسرطان الدم (اللوكيميا) (٧,٧٩%) (٥,٥١ لكل مئة ألف من السكان من فئة الرجال) وسرطان القولون والمستقيم (٧,٥٢%) (٥,٢٩ لكل مئة ألف من السكان من فئة الرجال) وسرطان البروستات (٧,٤٨%) (٥,٣١ لكل مئة ألف من السكان من فئة الرجال) وأورام الدماغ والجهاز العصبي المركزي (٦,٠٢%) (٤,٢٦ لكل مئة ألف من السكان من فئة الرجال) وسرطان الغدد اللمفاوية اللا هودجكيني (٥%) (٣,٣٥ لكل مئة ألف من السكان من فئة الرجال) وسرطان الجلد (٤,٢٩%) (٣,٠٣ لكل مئة ألف من السكان من فئة الرجال) وسرطان المعدة (٣,٨٥%) (٢,٧٢ لكل مئة ألف من السكان من فئة الرجال) وسرطان البنكرياس (٣,٠٣%) (٢,١٤ لكل مئة ألف من السكان من فئة الرجال).



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