



Republic of Iraq
Ministry of Health and Environment
Iraqi Cancer Board



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Ministry of Health and Environment

Iraqi Cancer Board

Annual Report

Iraqi Cancer Registry

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WHO Office in Iraq
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List of Abbreviations

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

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 the CanReg4 program.

The total number of new cases of cancer during the year 2019 was 35,864 with an incidence of 91.66/100,000 P. The highest incidence was among the age group 70-80 year. Related to the governorates the highest incidence rate in Iraq was recorded in Erbil (107.28/100,000 P). In males, the highest incidence rate was recorded in Erbil also (155.10/100,000 MP), while in females the highest incidence rate was recorded in Baghdad (136.50/100,000 FP). The lowest incidence rate in Iraq was recorded in Salaheldin (63.03/100,000 P [in males (50.66/100,000 MP), while in females (75.66/100,000 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 2019 (91.66/100,000 P).

The top ten cancers in both genders were breast (19.82%, 18.17/100,000 P), bronchus & lung (7.90%, 7.24/100,000 P), colorectal (6.49%, 5.95/100,000 P), brain & other central nervous system tumor (CNS) (6.37%, 5.83/100,000 P), leukemia (5.51%, 5.05/100,000 P), thyroid gland (5.05%, 4.61/100,000 P), urinary bladder (4.77%, 4.37/100,000 P), Non-Hodgkin lymphomas (4.12%, 3.77/100,000 P), skin (3.66%, 3.35/100,000 P) and prostate (3.41%, 6.19/100,000 P).

The top ten cancers in males were bronchus & lung (12.39 %, 10.10/100,000 MP), urinary bladder (8.46%, 6.61/100,000 MP), colorectal (8.02%, 6.27/100,000 MP), prostate (7.92%, 6.19/100,000 MP), leukemia (7.03%, 5.49/100,000 MP), brain & other central nervous system tumor (CNS) (6.93%, 5.42/100,000 MP), Non-Hodgkin lymphomas (5.24%, 4.09/100,000 MP), skin (4.57%, 3.57/100,000 MP), kidney (3.94%, 2.97/100,000 MP), and stomach (3.81%, 2.97/100,000 MP) .

The top ten cancers in females were breast (34.08%, 35.95/100,000 FP), thyroid gland (6.96%, 7.34/100,000 FP), brain & other central nervous system tumor (CNS) (5.94%, 6.26/100,000 FP), colorectal (5.33%, 5.63/100,000 FP), leukemia (4.36%, 4.60/100,000 FP), bronchus & lung (4.09%, 4.31/100,000 FP), ovary (4%, 4.22/100,000 FP), Non-Hodgkin lymphomas (3.27%, 3.45/100,000 FP), skin (2.96%, 3.13/100,000 FP), and corpus uteri (2.75%, 2.90/100,000 FP).

The total number of cancer in children (0-14 years) was 1,945 out of the 35,864 represent 5.42% of total cases of cancer of all age groups, with IR 12.28/100,000 children 0-14 year P. Related to the age group the highest incidence of top ten cancers was 0 - <5 years (11.84/100,000 children 0-14 year P). The highest incidence rate of cancer in children was leukemia (3.71/100,000 children 0-14 years P). Related to the governorates the highest incidence of top ten cancers in children (0-14 years) was recorded in Karbala (14.28/100,000 children 0-14 year Populations) and the lowest was in Diyala (7.34/100,000 children 0-14 year P).

The total number of cancer mortality during the year 2019 was 10,957 with a mortality rate of 28/100,000 P. The highest mortality rate of cancers, in general was bronchus & lung cancer (15.99%, 4.48/100,000 P), also the highest mortality rate of cancer in males was bronchus & lung cancer (21.71%, 6.18/100,000 MP), while in females the highest mortality rate of cancer was breast cancer (22.58%, 6.22/100,000 FP). Related to the age group the highest mortality rate of the top ten cancers was among the age group 70 years and more. As to the governorates, the highest mortality rate of the top ten cancers was recorded in Thiqr governorate (7.89%, 29.67/100,000 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 the management of patients who develop cancer. Many cancers have a high chance of cure if diagnosed early and treated adequately ^[1].

In the 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 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 the 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 in 2018, Table No.; (2).

Table No.; (2) Top 10 leading cause of death in Iraq, 2018 ^[5]

Rank	2018
1	Ischemic heart disease
2	Cerebrovascular diseases
3	Malignant neoplasm
4	Heart failure
5	Hypertensive disease
6	Renal failure
7	Road Traffic Accident
8	Diabetes mellitus
9	Respiratory and cardiovascular disorders specific to the pre-natal period
10	The disease of the respiratory system

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 the 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 the 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 2018.

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 radiotherapy and pathology departments by CanReg 4(annex). Registration is also obtained from private laboratories on cases of cancer that 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 the "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 of 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 proportion of the length of Iraq's borders with neighboring countries is with Iran about (37.6%) followed by Saudi Arabia (23.5%).

Iraq has occupied an area of 435,052 square kilometers, the province of Anbar the highest area, reaching 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 consists of deserts which is about 38,7%, then the plains including (marshes and lakes) include about 30,5% of the area, mountains which are 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 2019 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, 2019

Age group	Male		Female		Total	
	No.	%	No.	%	No.	%
0 - 4	2,947,214	7.53	2,793,755	7.14	5,740,969	14.67
5 - 9	2,750,510	7.03	2,589,237	6.62	5,339,747	13.65
10-14	2,458,155	6.28	2,294,786	5.86	4,752,941	12.15
15-19	2,156,791	5.51	2,037,814	5.21	4,194,605	10.72
20-24	1,883,982	4.81	1,738,706	4.44	3,622,688	9.26
25-29	1,477,655	3.78	1,436,732	3.67	2,914,387	7.45
30-34	1,293,900	3.31	1,331,510	3.40	2,625,410	6.71
35-39	1,102,866	2.82	1,162,754	2.97	2,265,620	5.79
40-44	1,039,989	2.66	1,053,879	2.69	2,093,868	5.35
45-49	768,587	1.96	791,404	2.02	1,559,991	3.99
50-45	453,172	1.16	564,330	1.44	1,017,502	2.60
55-59	515,182	1.32	539,124	1.38	1,054,306	2.69
60-64	354,795	0.91	387,782	0.99	742,577	1.90
65-69	233,545	0.60	243,306	0.62	476,851	1.22
70-74	152,371	0.39	153,330	0.39	305,701	0.78
75-79	80,256	0.21	96,704	0.25	176,960	0.45
80+	99,354	0.25	144,412	0.37	243,766	0.62
Total	19,768,324	50.52%	19,359,565	49.48%	39,127,889	100.00%

Figure No.; (1) pyramid of the estimated percentage of Iraq population by gender and age group, 2019

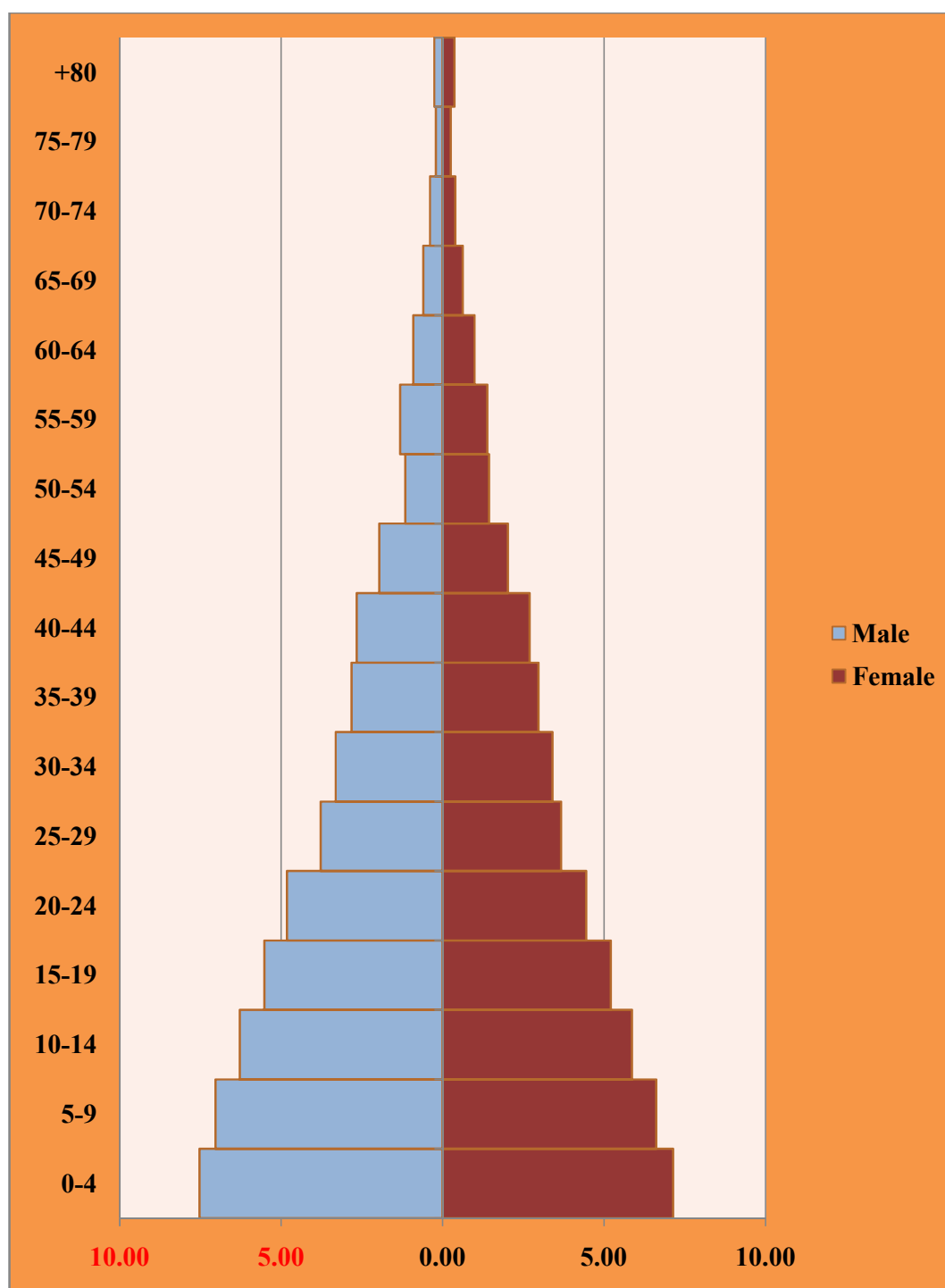


Table No.; (4) Estimated number of Iraq population by governorates and gender, 2019

Governorates	Male		Female		Total	
	No.	%	No.	%	No.	%
Baghdad	4,232,196	10.82	4,108,515	10.50	8,340,711	21.32
Nineveh	1,955,559	5.00	1,872,638	4.79	3,828,197	9.78
Al-Basra	1,499,597	3.83	1,485,476	3.80	2,985,073	7.63
Al-Sulaimaniya	1,110,145	2.84	1,109,049	2.83	2,219,194	5.67
ThiQar	1,079,322	2.76	1,071,016	2.74	2,150,338	5.50
Babil	1,070,897	2.74	1,048,506	2.68	2,119,403	5.42
Erbil	961,035	2.46	942,573	2.41	1,903,608	4.87
Al-Anbar	934,144	2.39	884,174	2.26	1,818,318	4.65
Diyala	848,820	2.17	831,508	2.13	1,680,328	4.29
Kirkuk	825,549	2.11	814,404	2.08	1,639,953	4.19
Salah Al-Deen	827,025	2.11	810,207	2.07	1,637,232	4.18
Al-Najaf	757,247	1.94	753,091	1.92	1,510,338	3.86
Wasit	714,358	1.83	700,676	1.79	1,415,034	3.62
Duhok	664,725	1.70	661,837	1.69	1,326,562	3.39
Al-Diwanyia	667,835	1.71	657,196	1.68	1,325,031	3.39
Karbala	630,975	1.61	619,831	1.58	1,250,806	3.20
Misan	568,903	1.45	573,063	1.46	1,141,966	2.92
Al-Muthana	419,992	1.07	415,805	1.06	835,797	2.14
Total	19,768,324	50.52	19,359,565	49.48	39,127,889	100.00%

Results

History of Cancer in Iraq

3. Results:

3.1. History of Cancer in Iraq:

3.1.1. Distribution and the incidence rate of new cases of cancer, Iraq, 1994 - 2019:

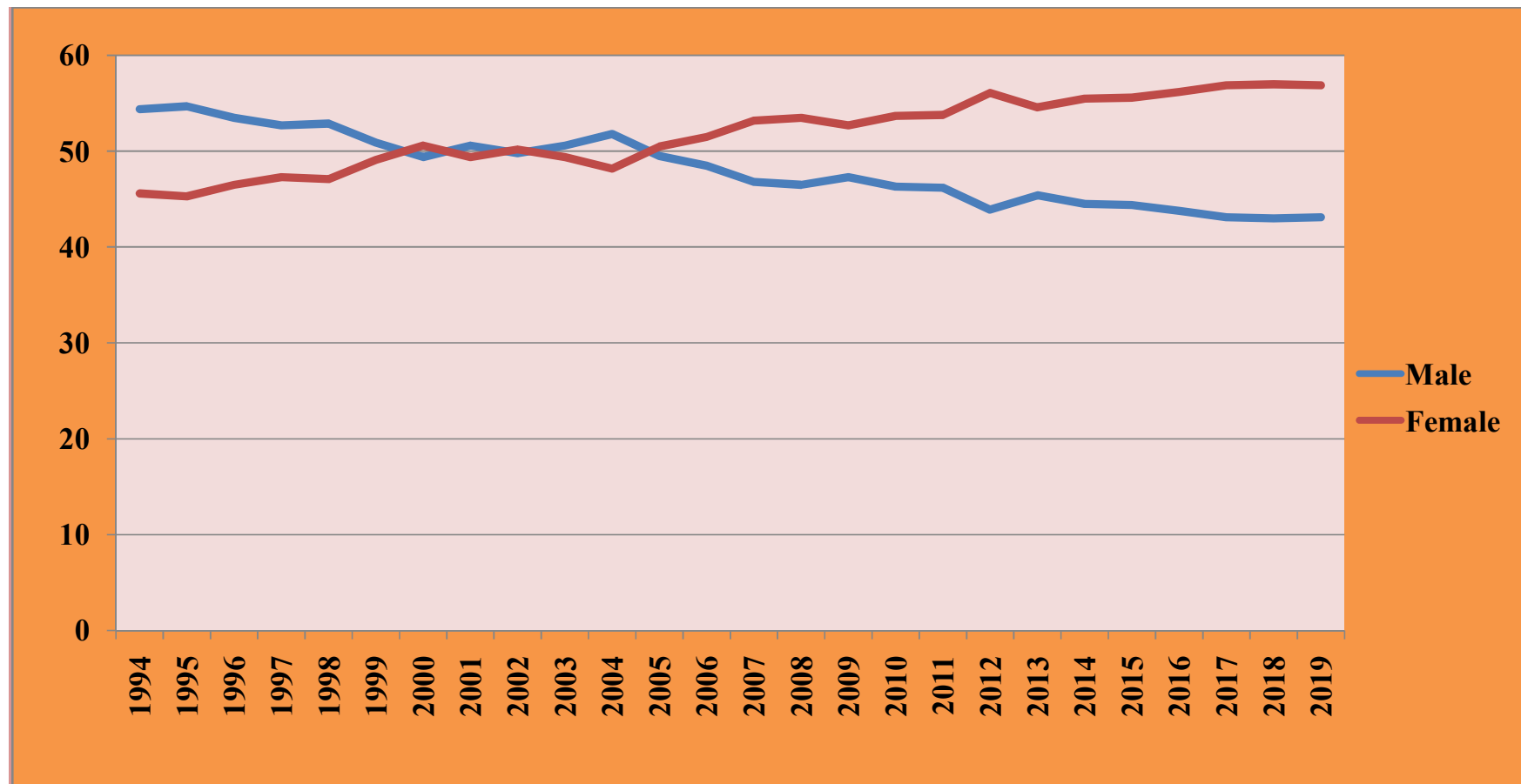
Table No.; (5) Figure No.; (2 & 3) shows the distribution of new cases of cancer in Iraq for the period from 1994 to 2019, which shows that the number of new cases of cancer was increased with time.

Table No.; (5) Distribution and the incidence rate /100,000 populations of new cases of cancer by gender, Iraq, 1994-2019

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
2019	15447	43.1	20417	56.9	35,864	100.00	91.66

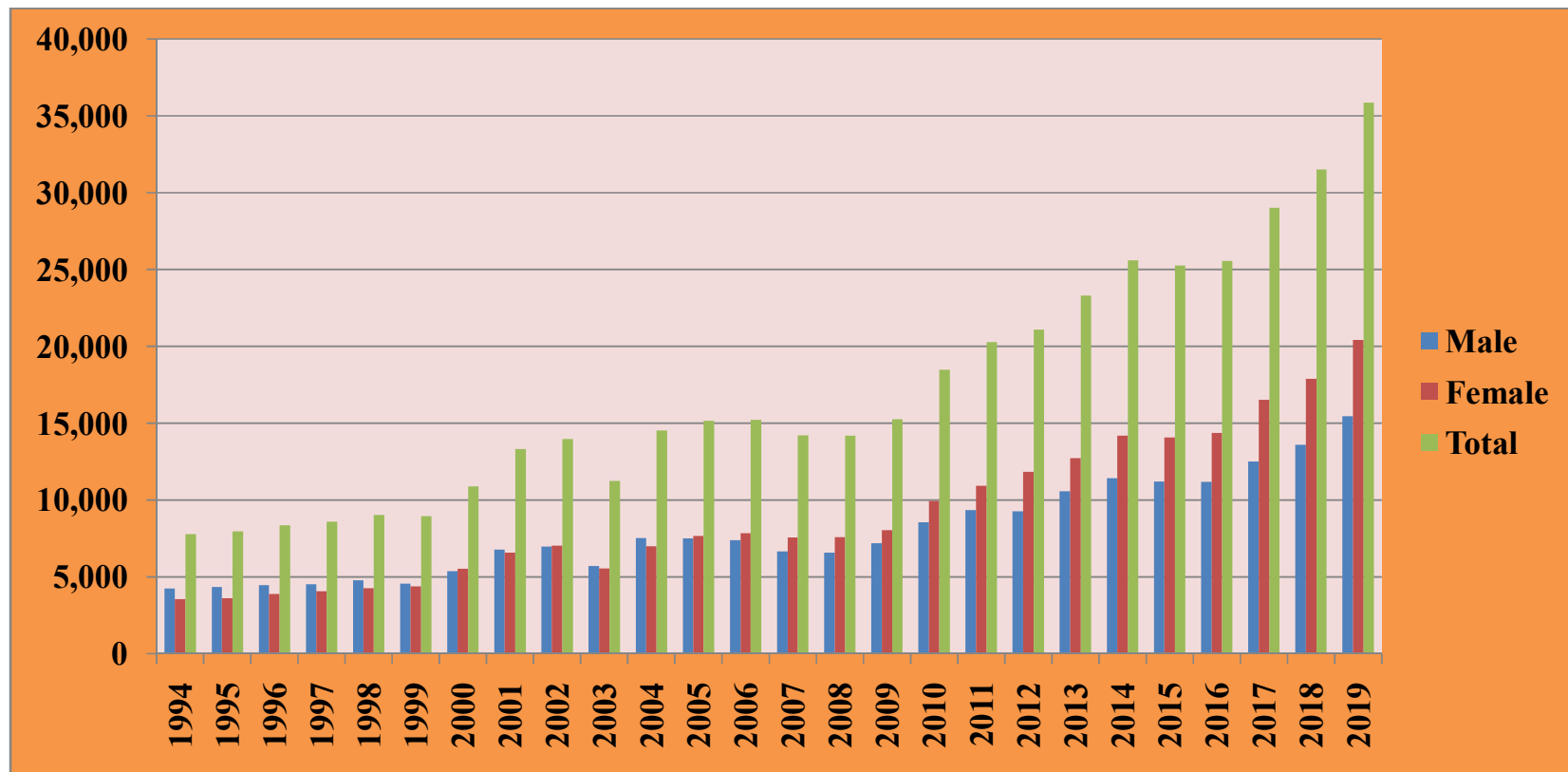
From 1995 till 2004 without Kurdistan Region (Erbil, Duhok, and Al Sulaimaniya governorates

Figure No.; (2) Percentage of new cases of cancer by gender, Iraq, 1994-2019



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, 1994-2019

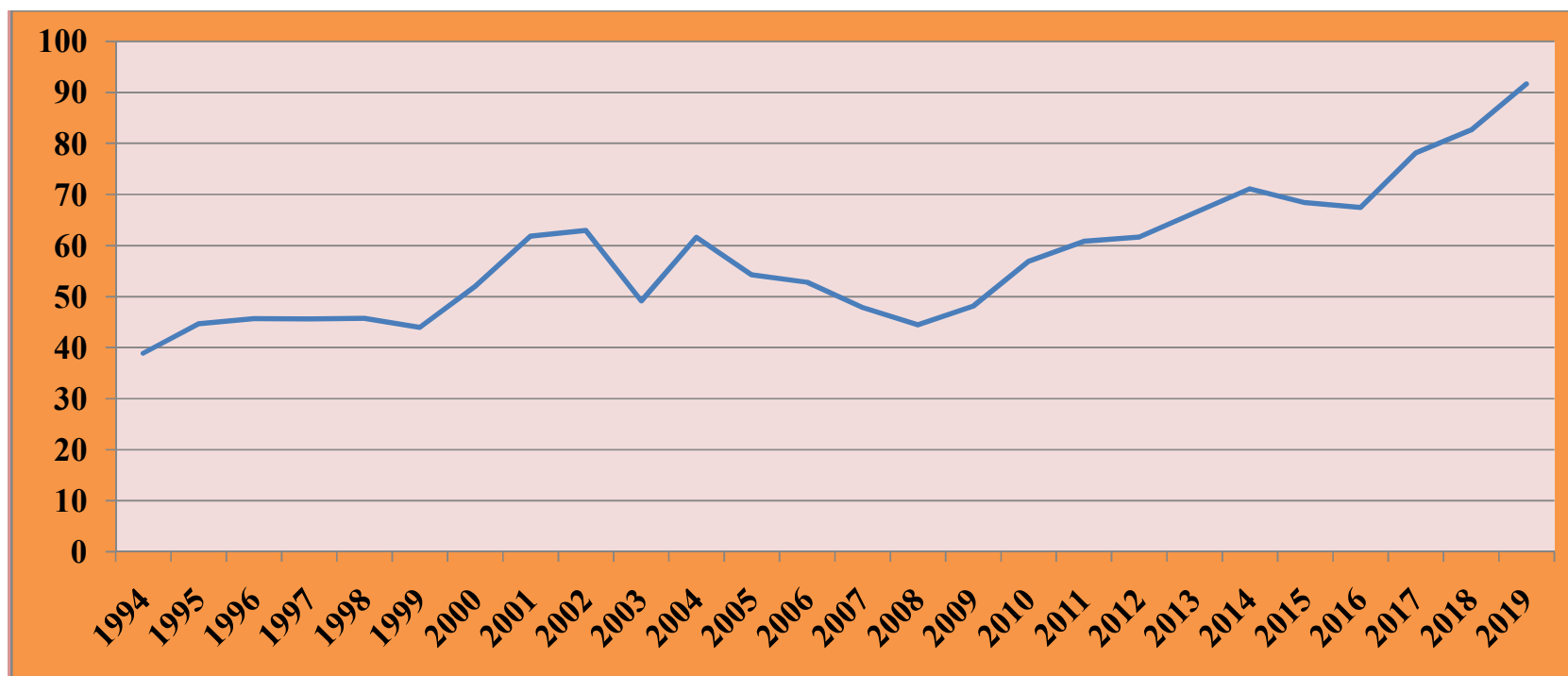


Note: From 1995 till 2004 without Kurdistan Region (Erbil, Duhok, and Sulaimaniya governorates).

3.1.2. The trend of the incidence rate of new cases of cancer, Iraq, 1994-2019:

Figure No.; (4) shows the trend of the incidence rate of new cases of cancer in Iraq for the last 26 years, which shows that the trend increased with time.

Figure No.; (4) Trend of the incidence rate of new cases of cancer in Iraq/100,000 populations, 1994 – 2019



Results

New Cases of Cancer in Iraq *2019*

3.2. New Cases of Cancer in Iraq, 2019:

3.2.1. Distribution and the incidence rate of cancer, Iraq, 2019:

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).

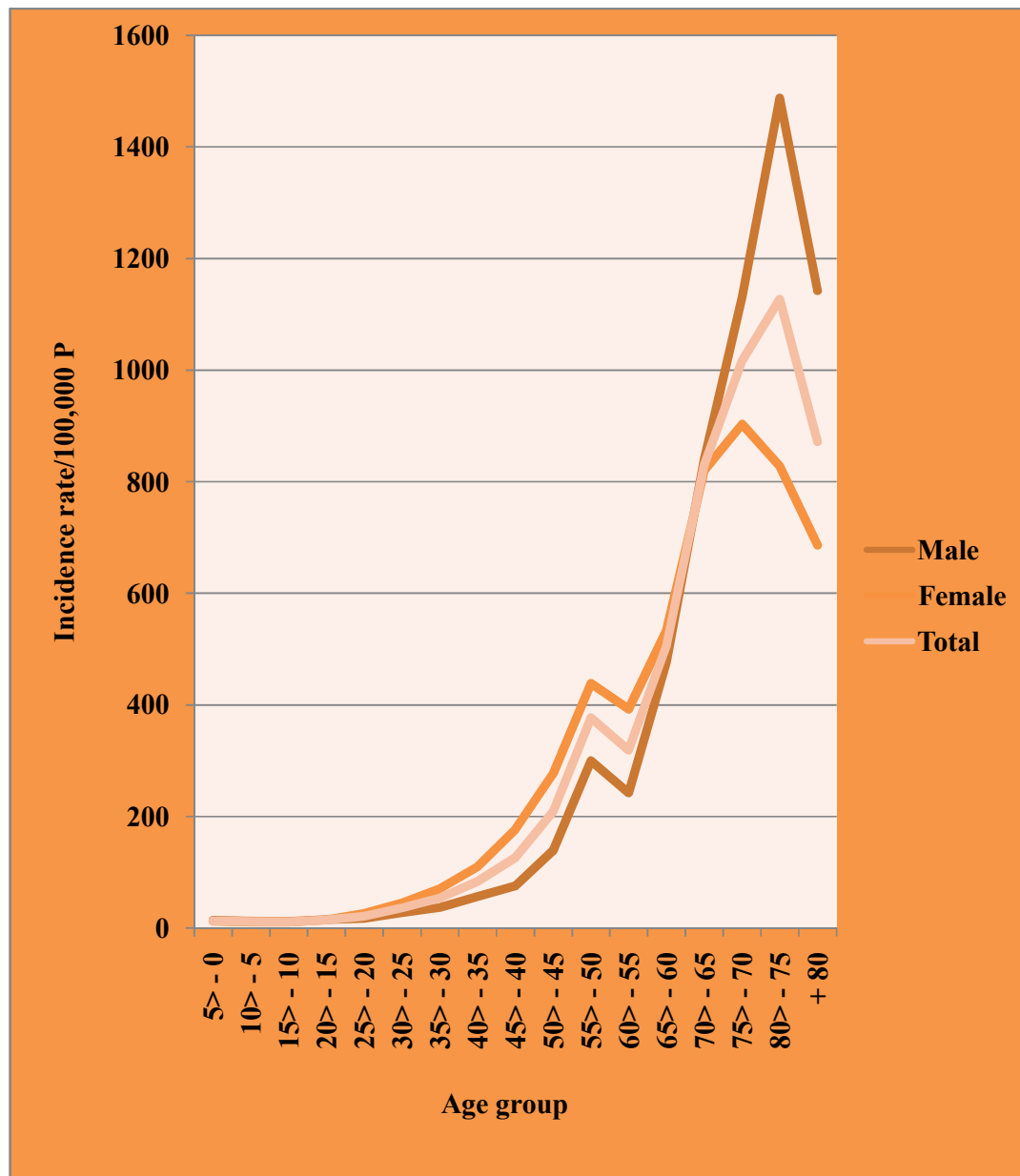
Table No.; (6) Distribution and the incidence rate/100,000 populations of cancer by age group and gender, Iraq, 2019

Age Group	Male			Female			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
0 - <5	424	1.18	14.39	353	0.98	12.64	777	2.17	13.53
5 - <10	352	0.98	12.80	275	0.77	10.62	627	1.75	11.74
10 - <15	293	0.82	11.92	248	0.69	10.81	541	1.51	11.38
15 - <20	330	0.92	15.30	303	0.84	14.87	633	1.77	15.09
20 - <25	334	0.93	17.73	454	1.27	26.11	788	2.20	21.75
25 - <30	414	1.15	28.02	644	1.80	44.82	1,058	2.95	36.30
30 - <35	479	1.34	37.02	936	2.61	70.30	1,415	3.95	53.90
35 - <40	622	1.73	56.40	1,278	3.56	109.91	1,900	5.30	83.86
40 - <45	787	2.19	75.67	1862	5.19	176.68	2,649	7.39	126.51
45 - <50	1,069	2.98	139.09	2,192	6.11	276.98	3,261	9.09	209.04
50 - <55	1,361	3.79	300.33	2,477	6.91	438.93	3,838	10.70	377.20
55 - <60	1,249	3.48	242.44	2,115	5.90	392.30	3,364	9.38	319.07
60 - <65	1,694	4.72	477.46	2,066	5.76	532.77	3,760	10.48	506.34
65 - <70	1,960	5.47	839.24	1,997	5.57	820.78	3,957	11.03	829.82
70 - <75	1,724	4.81	1131.45	1,385	3.86	903.28	3,109	8.67	1017.01
75 - <80	1,194	3.33	1487.74	801	2.23	828.30	1,995	5.56	1127.37
80 +	1,135	3.16	1142.38	991	2.76	686.23	2,126	5.93	872.15
Unknown	26	0.07	---	40	0.11	---	66	0.18	---
Total	15,447	43.07%	78.14	20,417	56.93%	105.46	35,864	100.00%	91.66

3.2.2 The Pattern of the incidence rate of cancer by age group and gender, Iraq, 2019:

Figure No.; (5) shows the pattern of the incidence rate of cancer in Iraq by age group, which shows that the Peak incidence rate at the age of 70-80 years in both genders.

Figure No.; (5) Trend of the incidence rate of cancer in Iraq /100,000 populations by age group and gender, 2019



3.2.3. Distribution and the incidence rate of cancer by governorates stratified by gender, Iraq, 2019:

Table No.; (7) shows that the highest percentage of cancer in Iraq in both genders was in Baghdad [(female No. 5608 – 15.64%) (male No. 3723 – 10.38%)] and the lowest was in Al-Muthana [(female No. 328 – 0.91%) (male No. 289 – 0.81%)].

Table No.; (7) Distribution and the incidence rate of cancer by governorates, Iraq, 2019

Governorates	Male			Female			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
Al-Anbar	628	1.75	67.23	803	2.24	90.82	1,431	3.99	78.70
Al-Basra	1,067	2.98	71.15	1361	3.79	91.62	2,428	6.77	81.34
Al-Diwanyia	541	1.51	81.01	641	1.79	97.54	1,182	3.30	89.21
Al-Muthana	289	0.81	68.81	328	0.91	78.88	617	1.72	73.82
Al-Najaf	701	1.95	92.57	936	2.61	124.29	1,637	4.56	108.39
Al-Sulaimaniya	1,147	3.20	103.32	1,361	3.79	122.72	2,508	6.99	113.01
Babil	667	1.86	62.28	930	2.59	88.70	1,597	4.45	75.35
Baghdad	3,723	10.38	87.97	5,608	15.64	136.50	9,331	26.02	111.87
Diyala	624	1.74	73.51	825	2.30	99.22	1,449	4.04	86.23
Duhok	588	1.64	88.46	617	1.72	93.23	1,205	3.36	90.84
Erbil	1,031	2.87	107.28	1,182	3.30	125.40	2,213	6.17	116.25
Karbala	543	1.51	86.06	748	2.09	120.68	1,291	3.60	103.21
Kirkuk	483	1.35	58.51	712	1.99	87.43	1,195	3.33	72.87
Misan	441	1.23	77.52	458	1.28	79.92	899	2.51	78.72
Nineveh	1,056	2.94	54.00	1,420	3.96	75.83	2,476	6.90	64.68
Salah Al-Deen	419	1.17	50.66	613	1.71	75.66	1,032	2.88	63.03
ThiQar	733	2.04	67.91	869	2.42	81.14	1,602	4.47	74.50
Wasit	512	1.43	71.67	643	1.79	91.77	1,155	3.22	81.62
Unknown	254	0.71	---	362	1.01	---	616	1.72	---
Total	15,447	43.07%	78.14	20,417	56.93%	105.46	35,864	100.00%	91.66

Figure No.; (6) shows that the highest incidence rate in Iraq was in Erbil [(female 125.40/100,000 FP) (male 107.28/100,000 MP) (Total 116.25/100,000 TP)], and the lowest incidence rate was in Salah Al-Deen [(female 75.66/100,000 FP) (male 50.66/100,000 MP) (total 63.03/100,000 TP)].

Figure No.; (6) Incidence rate of cancer /100,000 populations by governorates, Iraq, 2019

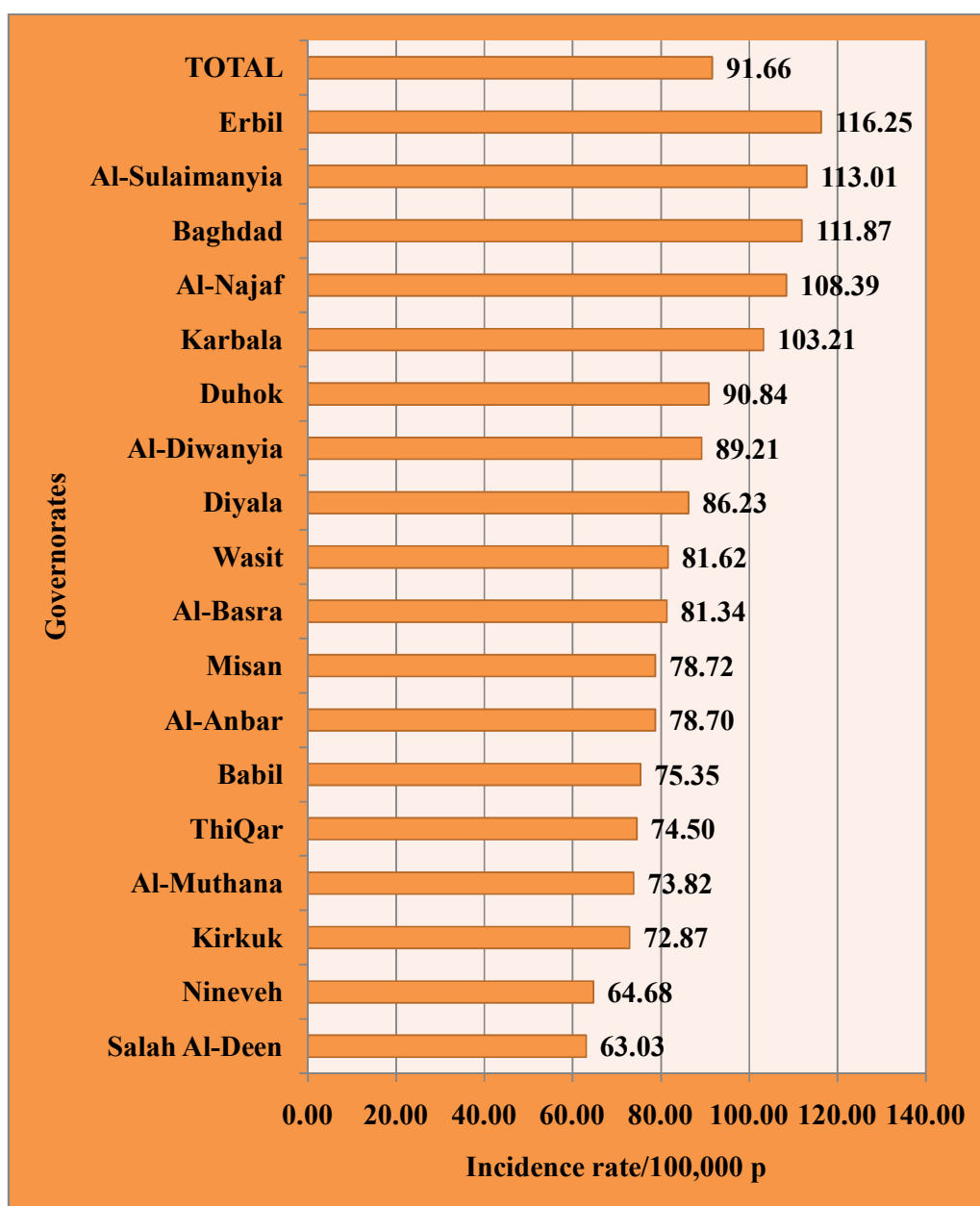


Figure No.; (7) shows that the highest incidence rate in males was in Erbil, and the lowest incidence rate was in Salah Al-Deen.

Figure No.; (7) Incidence rate of cancer in males/100,000 male populations by governorates, Iraq, 2019

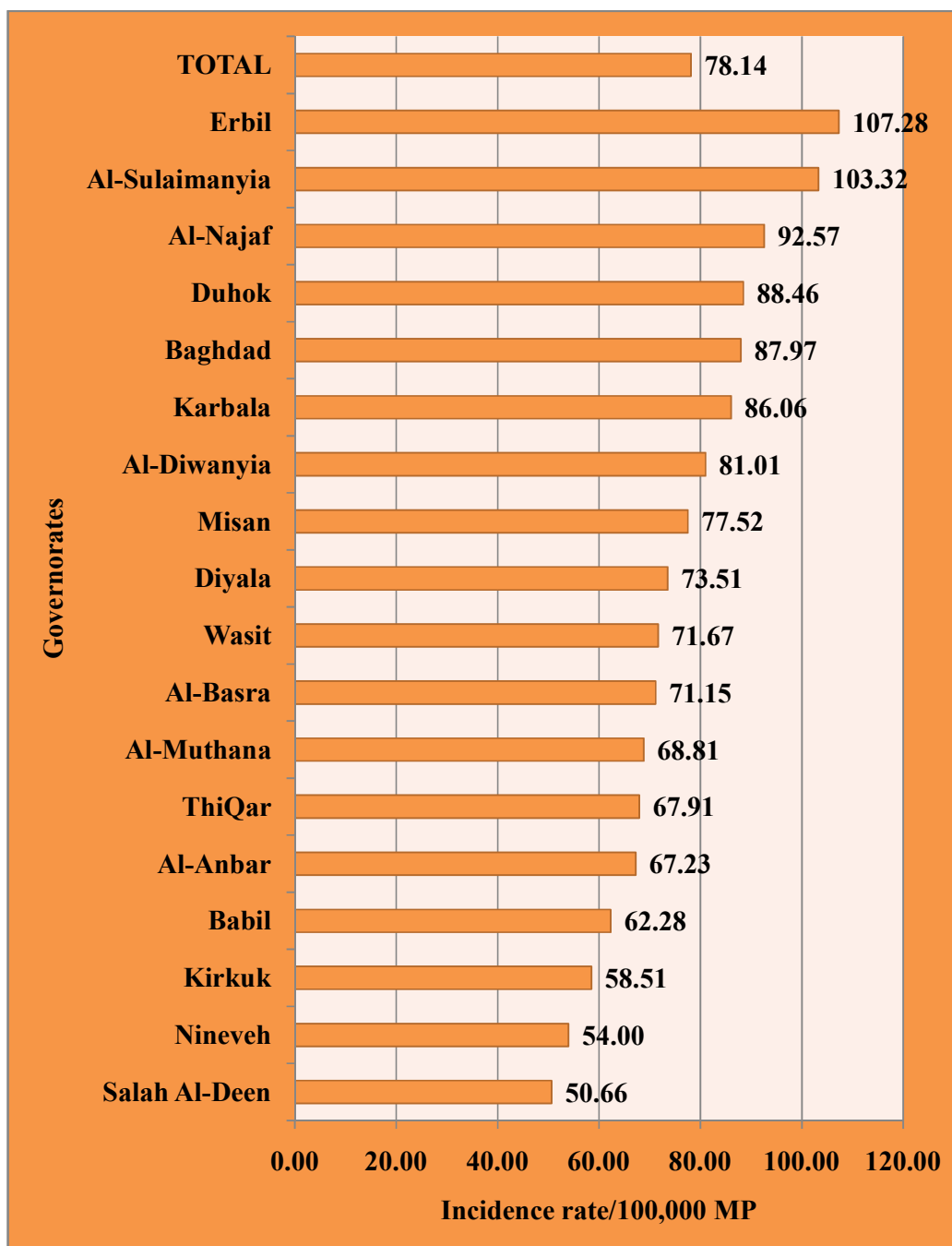
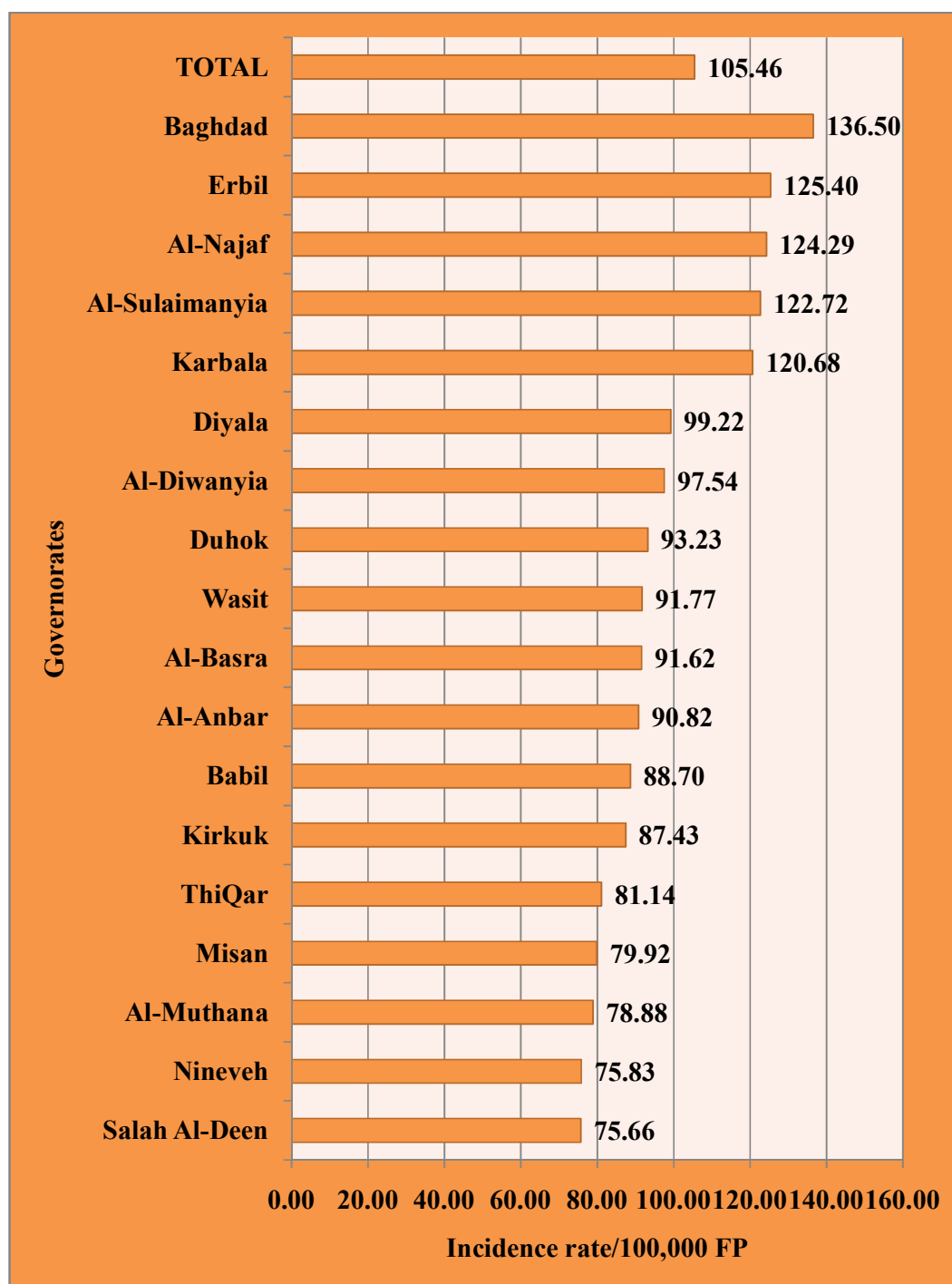


Figure No.; (8) shows that the highest incidence rate in female was in Baghdad, and the lowest incidence rate was in Salah Al- Deen.

Figure No.; (8) Incidence rate of cancer in females/100,000 female populations by governorates, Iraq, 2019



3.2.4. Distribution and the incidence rate of cancer by site, ICD-O, and gender, Iraq, 2019:

Table No.; (8) Distribution and the incidence rate of cancer /100,000 populations by ICD-O, site, and gender, Iraq, 2019

ICD-O code / Site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip	10	0.03	0.05	17	0.05	0.09	27	0.08	0.07
C01 / Tongue, Base	11	0.03	0.06	12	0.03	0.06	23	0.06	0.06
C02 / Tongue, other	64	0.18	0.33	67	0.19	0.34	131	0.37	0.33
C03 / Gum	4	0.01	0.02	6	0.02	0.03	10	0.03	0.03
C04 / Mouth - Floor	3	0.01	0.02	7	0.02	0.04	10	0.03	0.03
C05 / Mouth - Palate	11	0.03	0.06	9	0.03	0.05	20	0.06	0.05
C06 / Mouth - other	19	0.05	0.10	19	0.05	0.10	38	0.11	0.10
C07 / Parotid Gland	45	0.13	0.23	28	0.08	0.14	73	0.20	0.19
C08 / Mouth Glands	27	0.08	0.14	17	0.05	0.09	44	0.12	0.11
C09 / Tonsil	3	0.01	0.02	9	0.03	0.05	12	0.03	0.03
C10 / Oropharynx	13	0.04	0.07	9	0.03	0.05	22	0.06	0.06
C11 / Nasopharynx	57	0.16	0.29	131	0.37	0.66	188	0.52	0.48
C12 / Pyriform	1	0.00	0.01	4	0.01	0.02	5	0.01	0.01
C13 / Hypopharynx	16	0.04	0.08	13	0.04	0.07	29	0.08	0.07
C14 / Pharynx	10	0.03	0.05	21	0.06	0.11	31	0.09	0.08
C15 / Esophagus	104	0.29	0.54	141	0.39	0.71	245	0.68	0.63
C16 / Stomach	525	1.46	2.71	588	1.64	2.97	1113	3.10	2.84
C17 / Small intestine	60	0.17	0.31	72	0.20	0.36	132	0.37	0.34
C18 / Colon	753	2.10	3.89	776	2.16	3.93	1529	4.26	3.91
C19 / Recto-sigmoid Junction	29	0.08	0.15	40	0.11	0.20	69	0.19	0.18
C20 / Rectum	307	0.86	1.59	423	1.18	2.14	730	2.04	1.87
C21 / Anus & Anal Canal	19	0.05	0.10	30	0.08	0.15	49	0.14	0.13
C22 / Liver & Bile Ducts	292	0.81	1.51	411	1.15	2.08	703	1.96	1.80
C23 / Gallbladder	112	0.31	0.58	79	0.22	0.40	191	0.53	0.49
C24 / Biliary Tract , other	68	0.19	0.35	77	0.21	0.39	145	0.40	0.37
C25 / Pancreas	392	1.09	2.02	485	1.35	2.45	877	2.45	2.24
C26 / Other Digestive organs	22	0.06	0.11	19	0.05	0.10	41	0.11	0.10
C30 / Nasal Cavity	10	0.03	0.05	20	0.06	0.10	30	0.08	0.08
C31 / Accessory Sinus	7	0.02	0.04	20	0.06	0.10	27	0.08	0.07
C32 / Larynx	93	0.26	0.48	354	0.99	1.79	447	1.25	1.14
C33 / Trachea	2	0.01	0.01	6	0.02	0.03	8	0.02	0.02
C34 / Bronchus & Lung	835	2.33	4.31	1,997	5.57	10.10	2,832	7.90	7.24
C37 / Thymus	18	0.05	0.09	18	0.05	0.09	36	0.10	0.09

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No	%	IR	No.	%	IR
C38 / Heart, Mediastinum, Pleura		36	0.10	0.19	43	0.12	0.22	79	0.22	0.20
C39 / Other Respiratory & Thoracic		3	0.01	0.02	1	0.00	0.01	4	0.01	0.01
C40 / Bone & Cartilage, Limbs		90	0.25	0.46	104	0.29	0.53	194	0.54	0.50
C41 / Bones & Cartilage, Other		135	0.38	0.70	146	0.41	0.74	281	0.78	0.72
C42/ Reticulo endothelial & Hemato poietic System	Chronic Myelo proliferative Disorders	117	0.33	0.60	221	0.62	1.12	338	0.94	0.86
	Immuno proliferative Diseases	5	0.01	0.03	3	0.01	0.02	8	0.02	0.02
	Leukemia	891	2.48	4.60	1,086	3.03	5.49	1,977	5.51	5.05
	Myelo Dysplastic Syndromes	41	0.11	0.21	48	0.13	0.24	89	0.25	0.23
	Plasma Cell Tumor	173	0.48	0.89	204	0.57	1.03	377	1.05	0.96
	Blood	1	0.00	0.01	0	0.00	0.00	1	0.00	0.00
C44 / Skin, other		605	1.69	3.13	706	1.97	3.57	1,311	3.66	3.35
C47 /Nerves System		22	0.06	0.11	15	0.04	0.08	37	0.10	0.09
C48 / Peritoneum		22	0.06	0.11	24	0.07	0.12	46	0.13	0.12
C49 / soft tissues		193	0.54	1.00	239	0.67	1.21	432	1.20	1.10
C50 / Breast		6,959	19.40	35.95	150	0.42	0.76	7,109	19.82	18.17
C51 / Vulva		42	0.12	0.22	0	0.00	0.00	42	0.12	0.22
C52 / Vagina		25	0.07	0.13	0	0.00	0.00	25	0.07	0.13
C53 / Cervix Uteri		265	0.74	1.37	0	0.00	0.00	265	0.74	1.37
C54 / Corpus Uteri		562	1.57	2.90	0	0.00	0.00	562	1.57	2.90
C55 / Uterus Unspecified		434	1.21	2.24	0	0.00	0.00	434	1.21	2.24
C56 / Ovary		817	2.28	4.22	0	0.00	0.00	817	2.28	4.22
C57 / Female genital, other		12	0.03	0.06	0	0.00	0.00	12	0.03	0.06
C59 / Placenta		92	0.26	0.48	0	0.00	0.00	92	0.26	0.48
C60 / Penis		0	0.00	0.00	4	0.01	0.02	4	0.01	0.02
C61 / Prostate		0	0.00	0.00	1,224	3.41	6.19	1,224	3.41	6.19
C62 / Testis		0	0.00	0.00	219	0.61	1.11	219	0.61	1.11
C63 / Male genital, other		0	0.00	0.00	8	0.02	0.04	8	0.02	0.04
C64 / Kidney		372	1.04	1.92	608	1.70	3.08	980	2.73	2.50
C65 / Pelvis		11	0.03	0.06	13	0.04	0.07	24	0.07	0.06
C66 / Ureter		1	0.00	0.01	5	0.01	0.03	6	0.02	0.02
C67 / Urinary Bladder		403	1.12	2.08	1,307	3.64	6.61	1,710	4.77	4.37

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C68 / Urinary Organs, other		5	0.01	0.03	10	0.03	0.05	15	0.04	0.04
C69 / Eye & Adnexa		44	0.12	0.23	59	0.16	0.30	103	0.29	0.26
C70 / Meninges		251	0.70	1.30	80	0.22	0.40	331	0.92	0.85
C71 / Brain		855	2.38	4.42	886	2.47	4.48	1741	4.85	4.45
C72 / Nervous System, Other		34	0.09	0.18	38	0.11	0.19	72	0.20	0.18
C73 / Thyroid Gland		1,421	3.96	7.34	381	1.06	1.93	1,802	5.02	4.61
C74 / Adrenal gland		44	0.12	0.23	51	0.14	0.26	95	0.26	0.24
C75 / Endocrine Gland, Other		75	0.21	0.39	72	0.20	0.36	147	0.41	0.38
C76 / Unspecified Site		72	0.20	0.37	54	0.15	0.27	126	0.35	0.32
C77/ Lymph nodes	Hodgkin Lymphoma	285	0.79	1.47	367	1.02	1.86	652	1.82	1.67
	Non-Hodgkin Lymphoma	668	1.86	3.45	809	2.26	4.09	1,477	4.12	3.77
	Lymphoma	1	0.00	0.01	0	0.00	0.00	1	0.00	0.00
C80 / Unknown Primary Site		391	1.09	2.02	337	0.94	1.70	728	2.03	1.86
Total		20,417	56.93	105.46	15,447	43.07	78.14	35,864	100%	91.66

Note:

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

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

3.2.5. Distribution of cancers by the site of the tumor, age group and gender, Iraq, 2019:

Table No.; (9 & 10) shows the distribution of cancers in Iraq by the site of the tumor, 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 the site of the tumor and age group, Iraq, 2019

Site of tumor	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+	Un.	Total
Accessory sinus	0	0	0	0	0	0	1	0	3	3	0	5	1	3	2	2	0	0	20
Adrenal Gland	21	9	1	0	2	0	0	1	1	2	2	2	2	2	3	1	2	0	51
Anus & Anal Canal	0	0	0	0	1	0	1	1	2	5	6	4	0	5	3	2	0	0	30
Biliary Tract, Other	0	0	0	0	1	0	2	3	5	7	6	9	10	15	10	5	3	1	77
Bone & cartilage, limbs	2	4	16	25	7	8	1	3	6	3	7	9	2	3	3	3	2	0	104
Bones & Cartilage, Other	2	6	18	32	9	11	5	9	8	5	6	5	8	4	1	7	10	0	146
Brain	49	66	53	34	32	33	43	62	68	81	81	50	75	67	41	28	23	0	886
Breast	0	0	0	0	1	3	8	10	18	15	18	10	19	17	9	5	14	3	150
Bronchus & Lung	0	0	1	2	8	6	10	25	49	110	171	194	273	421	330	208	184	5	1,997
Chronic Myeloproliferative Disorders	0	0	1	6	15	19	19	20	26	25	24	13	14	18	14	2	5	0	221
Colon	0	0	1	2	10	21	25	34	47	69	85	83	90	108	100	53	47	1	776
Endocrine Gland, Other	1	6	6	5	2	6	5	6	13	7	3	5	4	2	1	0	0	0	72
Eye & Adnexa	39	8	0	0	1	1	1	0	0	3	1	1	2	0	1	0	1	0	59
Gallbladder	0	0	0	0	1	1	0	1	5	9	4	5	9	14	16	6	8	0	79
Gum	0	0	0	0	0	0	0	1	0	1	2	0	0	0	1	0	1	0	6

Site of tumor	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+	Un.	Total
Heart, Mediastinum, Pleura	1	3	0	1	2	3	2	4	1	1	6	1	3	5	5	3	2	0	43
Hodgkin Lymphoma	14	41	35	28	37	39	26	12	21	27	23	12	14	12	10	6	10	0	367
Hypopharynx	0	0	0	0	0	2	0	0	1	1	1	0	1	2	3	0	2	0	13
Immunoproliferative Diseases	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	3
Kidney	44	24	6	3	3	8	14	39	52	70	79	47	66	67	39	26	19	2	608
Larynx	2	1	0	0	2	1	2	3	13	30	37	51	59	68	40	21	23	1	354
Leukemia	134	102	89	69	56	52	41	36	39	59	62	59	74	68	50	47	49	0	1,086
Lip	0	0	0	0	0	0	1	1	1	1	1	1	3	3	3	0	1	1	17
Liver & Bile Ducts	10	0	3	1	2	3	8	8	8	23	30	34	51	77	63	52	38	0	411
Male genital, other	1	1	0	0	0	2	0	0	0	0	3	0	0	1	0	0	0	0	8
Meninges	2	0	3	4	3	2	4	13	5	8	7	7	7	9	6	0	0	0	80
Mouth - Floor	0	0	0	0	1	0	0	0	1	0	1	1	1	0	1	1	0	0	7
Mouth - Other	0	0	0	0	0	0	2	0	1	1	3	1	2	5	2	0	2	0	19
Mouth - Palate	0	0	0	0	0	0	1	2	1	2	1	0	1	0	0	0	1	0	9
Mouth Glands	0	0	0	0	0	1	0	2	1	3	4	4	2	0	0	0	0	0	17
Myelo Dysplastic Syndromes	0	0	2	5	2	3	3	0	1	1	3	2	5	7	4	5	5	0	48
Nasal Cavity	1	0	0	0	0	0	0	1	3	3	2	2	1	5	0	1	1	0	20
Nasopharynx	0	1	5	11	9	2	7	9	12	16	16	12	7	11	7	1	5	0	131
Nerves System	6	4	0	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	15
Nervous system, Other	4	2	1	2	3	1	4	3	3	2	4	1	1	4	1	1	1	0	38
Non-Hodgkin Lymphoma	37	44	26	45	34	42	39	34	53	58	70	62	75	76	45	47	22	0	809
Esophagus	0	0	0	0	2	1	1	6	3	15	15	12	17	17	16	16	20	0	141
Oropharynx	1	0	0	0	0	0	0	0	3	0	0	1	2	1	1	0	0	0	9

Site of tumor	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+	Un.	Total
Other Digestive Organs	0	0	1	1	0	1	0	1	1	1	2	1	1	2	6	0	1	0	19
Other Respiratory & Thoracic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Pancreas	0	0	1	1	0	1	5	12	28	31	59	51	79	77	61	41	38	0	485
Parotid Gland	1	1	1	1	3	1	0	0	2	2	1	4	4	4	0	2	1	0	28
Pelvis	0	0	0	0	0	1	0	0	2	0	3	0	1	2	3	1	0	0	13
Penis	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	0	0	0	4
Peritoneum	2	0	2	0	1	1	0	3	0	3	3	1	4	0	2	2	0	0	24
Pharynx	1	0	0	2	0	2	1	0	1	0	1	3	1	1	2	5	1	0	21
Plasma Cell Tumor	0	0	1	2	1	0	2	5	6	13	28	21	24	36	24	21	20	0	204
Prostate	0	0	0	1	1	1	1	2	3	10	47	68	179	204	250	227	229	1	1,224
Pyriform	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1	0	0	0	4
Recto sigmoid Junction	0	0	0	0	0	2	2	1	1	2	7	5	9	3	6	1	1	0	40
Rectum	0	0	0	0	4	7	20	32	32	43	54	45	57	42	35	31	21	0	423
Skin, other	1	2	2	4	6	13	22	30	35	61	74	61	81	73	105	59	73	4	706
Small Intestine	0	0	0	0	1	1	3	2	5	3	9	9	9	11	14	2	3	0	72
soft tissues	15	16	9	11	20	16	12	20	19	14	16	13	17	15	13	8	5	0	239
Stomach	0	1	1	2	5	12	21	23	35	53	58	69	70	80	60	54	44	0	588
Testis	9	0	2	14	18	35	33	37	23	15	10	7	7	3	0	1	5	0	219
Thymus	0	0	0	0	0	0	3	5	3	0	1	0	2	2	1	0	1	0	18
Thyroid Gland	0	0	2	6	10	31	45	61	48	44	39	24	29	16	5	11	9	1	381
Tongue, Base	0	0	0	0	0	0	0	0	0	1	2	1	1	1	3	2	1	0	12
Tongue, Other	1	0	0	0	0	1	2	2	3	7	8	5	14	9	6	8	1	0	67
Tonsil	0	1	0	0	0	0	0	0	0	2	3	1	0	0	0	1	1	0	9
Trachea	0	0	0	0	0	0	0	0	0	1	1	1	2	0	0	1	0	0	6
Unknown Primary Site	8	3	0	4	10	5	8	11	14	20	37	32	40	47	40	23	34	1	337

Site of tumor	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+	Un.	Total
Unspecified Site	7	5	2	2	2	3	3	2	4	2	1	1	4	7	4	4	1	0	54
Ureter	0	0	0	0	0	0	0	0	0	0	2	1	2	0	0	0	0	0	5
Urinary Bladder	8	1	2	2	5	9	20	24	47	73	109	118	155	202	246	138	143	5	1,307
Urinary Organs, Other	0	0	0	0	0	0	0	0	1	0	0	2	0	4	1	1	1	0	10
Total	424	352	293	330	334	414	479	622	787	1,069	1,361	1,249	1,694	1,960	1,724	1,194	1,135	26	15,447
Percentage	2.74	2.28	1.90	2.14	2.16	2.68	3.10	4.03	5.09	6.92	8.81	8.09	10.97	12.69	11.16	7.73	7.35	0.17	100.00
IR	14.39	12.80	11.92	15.30	17.73	28.02	37.02	56.40	75.67	139.09	300.33	242.44	477.46	839.24	1131.45	1487.74	1142.38	---	78.14

Table No.; (10) Distribution of cancer in females by the site of the tumor and age group, Iraq, 2019

Site of tumor	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+	Un.	Total
Accessory sinus	0	0	0	1	0	0	0	0	0	0	1	1	1	3	0	0	0	0	7
Adrenal Gland	16	5	1	1	4	2	0	3	5	1	2	0	2	1	0	0	1	0	44
Anus & Anal Canal	0	0	0	0	0	0	0	0	1	2	2	4	2	2	3	1	2	0	19
Biliary Tract, Other	0	0	0	0	1	2	0	0	2	4	9	6	12	12	5	10	5	0	68
Blood	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Bone & cartilage, limbs	4	6	17	15	12	3	2	4	5	1	3	5	4	5	1	2	1	0	90
Bones & Cartilage, Other	2	7	11	22	10	9	8	5	10	4	10	3	10	4	5	10	5	0	135
Brain	52	75	63	33	31	49	37	39	74	57	70	61	46	81	42	20	24	1	855
Breast	0	0	0	2	28	129	306	558	953	1,094	1095	894	690	555	329	172	144	10	6,959
Bronchus & Lung	0	0	0	1	6	8	2	14	22	51	69	80	114	144	146	78	99	1	835
Cervix Uteri	0	0	0	0	3	1	10	17	16	39	41	33	32	25	22	9	17	0	265
Chronic Myeloproliferative Disorders	0	0	1	1	5	8	8	8	9	16	12	5	6	8	5	9	16	0	117
Colon	0	0	0	5	11	17	25	24	62	65	92	81	90	109	72	46	52	2	753
Corpus Uteri	0	0	0	0	3	3	7	12	42	48	70	90	120	97	45	12	11	2	562
Endocrine Gland, Other	0	1	3	4	6	5	6	7	14	5	11	1	5	2	3	0	2	0	75
Eye & Adnexa	26	4	2	1	1	0	1	1	1	1	0	0	3	2	1	0	0	0	44
Female genital- other	1	1	0	0	1	0	0	1	1	0	5	0	2	0	0	0	0	0	12
Gallbladder	0	0	0	0	0	0	1	3	6	7	6	13	18	22	15	13	8	0	112
Gum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
Heart, Mediastinum, Pleura	3	1	2	1	1	1	0	4	0	4	2	6	3	1	2	2	3	0	36
Hodgkin Lymphomas	6	14	22	30	38	30	31	23	15	11	18	11	8	10	5	3	10	0	285
Hypopharynx	0	0	0	1	1	0	1	1	0	3	3	1	1	2	1	0	1	0	16

Site of tumor	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+	Un.	Total
Immuno Proliferative Diseases	0	0	0	0	0	0	0	0	0	1	2	0	1	0	0	1	0	0	5
Kidney	38	15	3	2	8	11	18	27	19	33	44	31	28	31	29	21	14	0	372
Larynx	0	1	1	0	0	3	2	3	2	3	8	14	10	12	16	8	10	0	93
Leukemia	115	95	52	45	47	28	37	35	36	54	64	59	48	59	41	43	32	1	891
Lip	0	0	0	0	0	0	0	1	1	1	2	2	0	0	1	0	2	0	10
Liver & Bile Ducts	9	1	0	3	1	2	4	5	16	19	24	22	37	38	36	25	49	1	292
Lymph node, NOS	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Meninges	0	2	2	3	4	6	8	18	27	46	34	35	29	17	9	6	5	0	251
Mouth - Floor	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	3
Mouth - Other	0	0	0	0	0	0	0	1	1	0	6	2	3	2	3	0	1	0	19
Mouth - Palate	0	0	0	0	0	0	0	0	1	1	2	2	2	0	0	2	1	0	11
Mouth Glands	0	0	2	0	1	0	4	1	1	2	3	4	4	1	1	1	2	0	27
Myelo Dysplastic Syndromes	0	0	2	3	3	2	2	2	2	2	3	2	3	3	6	2	4	0	41
Nasal Cavity	0	1	0	0	0	0	0	0	0	0	1	0	1	1	3	0	3	0	10
Nasopharynx	0	0	2	7	2	1	3	2	5	3	5	8	7	2	4	1	5	0	57
Nerves System	10	3	1	1	1	1	1	0	1	1	1	1	0	0	0	0	0	0	22
Nervous system, Other	5	4	2	1	2	1	3	2	2	2	2	2	2	2	2	0	0	0	34
Non-Hodgkin Lymphoma	21	10	17	17	30	29	30	31	39	52	74	64	74	71	48	30	30	1	668
Esophagus	0	0	0	0	1	1	0	3	4	8	19	11	7	17	14	7	12	0	104
Oropharynx	0	0	2	0	0	0	0	1	0	1	2	0	0	5	0	0	2	0	13
Other Digestive Organs	0	1	0	0	0	0	0	1	3	0	4	0	4	3	1	3	2	0	22
Other Respiratory & Thoracic	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3
Ovary	4	6	8	23	30	35	43	51	59	93	109	99	77	88	35	24	32	1	817
Pancreas	0	0	0	1	11	2	5	7	8	25	38	50	56	66	53	33	37	0	392

Site of tumor	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+	Un.	Total
Parotid Gland	0	1	2	2	2	3	3	2	6	4	6	4	4	2	0	0	4	0	45
Pelvis	0	0	0	0	0	0	0	1	2	2	1	0	0	0	3	0	2	0	11
Peritoneum	7	0	0	0	0	0	1	0	1	1	3	3	3	2	1	0	0	0	22
Pharynx	0	0	0	1	0	0	1	0	0	0	3	0	2	0	1	2	0	0	10
Placenta	0	0	0	16	20	18	16	8	9	4	1	0	0	0	0	0	0	0	92
Plasma Cell Tumor	0	0	0	0	1	1	3	2	5	13	16	32	29	27	18	14	12	0	173
Pyriform	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Recto sigmoid Junction	0	0	0	0	1	1	3	5	0	3	4	2	5	1	1	2	1	0	29
Rectum	0	0	1	0	8	6	15	13	32	45	32	29	32	36	26	12	20	0	307
Skin, other	3	2	3	6	4	5	17	26	23	31	60	44	92	71	70	38	102	8	605
Small Intestine	0	0	0	0	2	1	0	1	6	3	4	6	8	14	7	4	4	0	60
soft tissues	12	5	7	10	10	8	18	18	13	13	22	14	15	9	12	3	4	0	193
Stomach	0	2	0	0	7	15	15	31	41	52	61	47	62	60	56	26	50	0	525
Thymus	0	0	0	0	1	1	3	1	0	5	3	1	0	1	0	2	0	0	18
Thyroid Gland	0	6	8	39	84	182	201	200	172	160	123	73	54	48	31	16	19	5	1,421
Tongue, Base	0	0	0	0	0	0	0	1	2	3	3	0	0	0	1	0	1	0	11
Tongue, Other	1	0	0	0	1	1	1	0	2	8	9	5	5	13	7	3	7	1	64
Tonsil	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	3
Trachea	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
Unknown Primary Site	3	2	4	3	3	2	15	18	32	28	48	40	46	55	47	18	25	2	391
Unspecified Site	12	4	4	0	2	1	4	4	8	4	5	4	7	6	3	1	3	0	72
Ureter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Urinary Bladder	1	0	2	1	0	2	3	11	10	12	30	31	53	70	58	43	74	2	403
Urinary Organs, Other	0	0	0	0	0	0	0	0	0	1	2	0	2	0	0	0	0	0	5
Uterus Unspecified	0	0	0	1	2	6	7	18	30	38	66	68	77	62	29	14	14	2	434
Vagina	1	0	1	0	0	0	1	2	0	1	2	3	4	1	5	2	2	0	25
Vulva	0	0	0	0	1	2	3	1	3	1	5	5	4	11	1	4	1	0	42
Total	353	275	248	303	454	644	936	1,278	1,862	2,192	2,477	2,115	2,066	1,997	1,385	801	991	40	20,417

Site of tumor	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+	Un.	Total
Percentage	1.73	1.35	1.21	1.48	2.22	3.15	4.58	6.26	9.12	10.74	12.13	10.36	10.12	9.78	6.78	3.92	4.85	0.20	100.00
IR	12.64	10.62	10.81	14.87	26.11	44.82	70.30	109.91	176.68	276.98	438.93	392.30	532.77	820.78	903.28	828.30	686.23	---	105.46

3.2.6. Distribution of cancer by the site of the tumor, governorates and gender, Iraq, 2019:

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

Table No.; (11) Distribution of cancer in male by the site of the tumor and governorates, Iraq, 2019

Site of tumor	Al-Anbar	Al-Basra	Al-Diwanlyia	Al-Muthana	Al-Najaf	Al-Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah Al-Deen	ThiQar	Wasit	Un.	TOTAL
Accessory sinus	0	5	0	1	0	0	0	9	2	0	1	0	0	0	1	0	0	1	0	20
Adrenal Gland	0	7	0	0	1	0	1	7	4	2	6	3	3	3	5	4	2	2	1	51
Anus & Anal Canal	1	2	2	1	1	0	2	13	0	0	4	1	0	0	1	0	0	2	0	30
Biliary Tract, Other	2	4	10	0	1	5	1	27	2	2	7	0	0	1	5	2	4	4	0	77
Bone & cartilage, limbs	8	3	1	3	2	2	2	24	12	0	9	3	4	1	4	9	12	0	5	104
Bones & Cartilage, Other	3	7	6	2	6	16	8	27	3	12	2	2	5	11	19	2	9	5	1	146
Brain	37	53	31	28	29	52	36	243	40	26	29	29	33	25	54	24	53	37	27	886
Breast	4	12	8	2	5	6	7	45	15	4	8	5	3	1	10	4	2	3	6	150
Bronchus & Lung	58	119	87	42	109	111	118	413	67	108	124	68	53	67	168	54	147	67	17	1,997
Chronic Myeloproliferative Disorders	0	22	0	0	0	167	0	8	4	4	10	1	3	0	1	1	0	0	0	221
Colon	35	41	23	10	25	54	30	220	31	36	45	36	25	27	73	18	20	16	11	776
Endocrine Gland, Other	2	4	2	1	3	1	5	23	4	0	0	3	6	0	2	1	3	3	9	72
Eye & Adnexa	2	3	2	1	2	2	4	21	1	2	1	2	2	1	4	2	6	1	0	59
Gallbladder	6	5	1	0	1	6	5	15	7	2	4	11	1	1	5	3	2	2	2	79
Gum	0	1	0	1	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	6

Site of tumor	Al-Anbar	Al-Basra	Al-Diwanyia	Al-Muthana	Al-Najaf	Al-Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah Al-Deen	ThiQar	Wasit	Un.	TOTAL
Heart, Mediastinum, Pleura	0	3	4	2	2	1	2	13	1	2	3	2	1	2	1	2	1	1	0	43
Hodgkin Lymphoma	26	26	6	9	18	29	12	72	13	17	28	21	8	15	29	10	19	6	3	367
Hypopharynx	0	2	1	3	0	1	0	2	0	0	1	0	1	0	0	1	1	0	0	13
Immunoproliferativ Diseases	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3
Kidney	23	47	18	11	21	35	22	149	26	13	54	16	24	22	49	18	25	27	8	608
Larynx	5	30	9	6	20	18	14	85	14	14	37	9	16	16	25	11	15	8	2	354
Leukemia	43	90	40	19	43	73	59	232	44	50	50	48	47	36	79	30	59	44	0	1,086
Lip	0	0	0	0	0	2	0	6	0	0	2	2	2	0	3	0	0	0	0	17
Liver & Bile Ducts	18	17	20	6	27	16	20	125	16	14	14	14	7	17	26	10	20	18	6	411
Male genital, other	0	0	0	0	0	2	0	2	0	0	1	0	0	1	0	0	2	0	0	8
Meninges	3	1	3	1	1	0	5	29	5	0	1	2	2	2	2	0	4	2	17	80
Mouth - Floor	0	1	1	0	0	2	0	1	1	0	0	0	1	0	0	0	0	0	0	7
Mouth - Other	2	1	0	0	1	1	0	8	1	0	1	1	0	0	1	0	1	1	0	19
Mouth - Palate	0	1	0	0	0	0	1	4	0	0	0	1	0	0	1	0	1	0	0	9
Mouth Glands	0	2	0	0	3	0	0	7	1	1	0	0	0	0	0	0	1	2	0	17
Myelo Dysplastic Syndromes	1	20	0	0	2	8	0	7	1	1	2	1	1	1	0	1	0	2	0	48
Nasal Cavity	0	2	1	0	2	1	4	5	0	3	0	0	0	0	1	0	1	0	0	20
Nasopharynx	10	12	4	1	7	7	4	30	12	0	4	6	2	3	7	9	9	4	0	131
Nerves System	1	0	0	1	0	0	3	6	1	0	1	0	0	1	0	0	0	1	0	15
Nervous system, Other	0	5	2	1	2	4	0	10	0	0	0	1	0	0	4	3	5	1	0	38
Non-Hodgkin Lymphoma	59	76	36	15	50	26	34	182	19	29	40	36	30	16	39	32	53	29	8	809
Esophagus	6	10	3	1	3	22	6	22	3	11	16	5	6	2	12	3	3	5	2	141
Oropharynx	0	1	0	0	0	0	0	1	0	0	1	0	0	3	3	0	0	0	0	9

Site of tumor	Al-Anbar	Al-Basra	Al-Diwanyia	Al-Muthana	Al-Najaf	Al-Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah Al-Deen	ThiQar	Wasit	Un.	TOTAL
Other Digestive Organs	3	0	0	1	2	0	0	6	4	0	1	0	0	0	0	0	2	0	0	19
Other Respiratory & Thoracic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Pancreas	15	32	8	11	26	34	21	120	18	21	19	26	18	24	35	13	28	14	2	485
Parotid Gland	5	3	1	0	1	0	0	8	2	0	0	1	3	0	1	1	1	0	1	28
Pelvis	0	0	0	0	1	0	1	2	2	1	2	0	0	0	0	1	2	1	0	13
Penis	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
Peritoneum	3	2	2	1	1	1	1	4	0	0	0	1	1	0	1	4	2	0	0	24
Pharynx	0	1	0	2	0	0	4	4	2	0	0	0	2	1	1	2	2	0	0	21
Plasma Cell Tumor	6	16	13	1	9	20	5	40	5	13	20	8	7	4	11	3	18	5	0	204
Prostate	60	67	37	20	70	119	55	305	29	29	127	32	46	25	94	26	36	35	12	1,224
Pyriform	0	0	0	0	1	0	0	1	2	0	0	0	0	0	0	0	0	0	0	4
Recto sigmoid Junction	1	4	0	2	1	0	0	17	1	0	5	0	1	0	4	2	2	0	0	40
Rectum	21	29	8	2	20	42	13	104	20	28	42	14	15	11	25	7	8	11	3	423
Skin, other	21	37	16	7	34	42	24	169	38	52	99	18	21	11	36	21	9	29	22	706
Small Intestine	2	4	4	4	1	2	1	17	1	0	9	6	5	4	3	0	5	4	0	72
soft tissues	8	21	9	5	18	17	9	62	11	3	12	8	6	1	18	11	5	7	8	239
Stomach	41	45	19	6	22	51	20	145	50	16	37	14	11	12	49	15	16	12	7	588
Testis	10	16	5	4	9	14	10	50	9	15	19	5	7	6	11	7	9	10	3	219
Thymus	0	1	0	1	1	1	0	11	0	0	0	0	0	0	1	0	1	1	0	18
Thyroid Gland	23	17	27	8	21	22	13	106	15	11	21	15	6	6	19	17	14	12	8	381
Tongue, Base	1	0	0	0	0	0	0	7	1	0	1	0	0	0	0	0	1	1	0	12
Tongue, Other	1	5	5	0	2	1	1	16	2	0	5	4	4	2	3	1	10	4	1	67
Tonsil	3	0	0	1	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	9
Trachea	1	0	0	0	0	1	1	3	0	0	0	0	0	0	0	0	0	0	0	6
Unknown Primary Site	3	29	2	2	2	39	7	103	19	12	33	3	7	2	31	6	7	5	25	337

Site of tumor	Al-Anbar	Al-Basra	Al-Diwanyia	Al-Muthana	Al-Najaf	Al-Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah Al-Deen	ThiQar	Wasit	Un.	TOTAL
Unspecified Site	1	1	7	2	0	6	2	18	3	0	4	1	2	0	4	0	1	2	0	54
Ureter	0	0	1	0	0	0	0	2	0	0	1	0	0	0	1	0	0	0	0	5
Urinary Bladder	43	99	56	41	70	64	74	302	38	34	68	57	35	55	72	27	70	65	37	1,307
Urinary Organs, Other	0	0	0	0	2	1	0	1	1	0	0	1	0	0	0	0	4	0	0	10
Total	628	1,067	541	289	701	1147	667	3,723	624	588	1,031	543	483	441	1,056	419	733	512	254	15,447
Percentage	4.07	6.91	3.50	1.87	4.54	7.43	4.32	24.10	4.04	3.81	6.67	3.52	3.13	2.85	6.84	2.71	4.75	3.31	1.64	100.00
IR	67.23	71.15	81.01	68.81	92.57	103.32	62.28	87.97	73.51	88.46	107.28	86.06	58.51	77.52	54.00	50.66	67.91	71.67	---	78.14

Table No.; (12) Distribution of cancer in female by the site of the tumor and governorates, Iraq, 2019

Site of tumor	Al-Anbar	Al-Basra	Al-Diwanlyia	Al-Muthana	Al-Najaf	Al-Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah Al-Deen	ThiQar	Wasit	Un.	Total
Accessory sinus	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	2	0	0	0	7
Adrenal Gland	1	3	2	1	0	3	3	11	3	1	3	1	1	1	3	2	4	1	0	44
Anus & Anal Canal	0	0	0	1	1	0	0	11	1	0	1	0	1	0	3	0	0	0	0	19
Biliary Tract, Other	1	5	6	3	0	2	2	20	2	0	5	1	1	1	4	3	8	3	1	68
Blood	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Bone & cartilage, limbs	9	4	4	4	6	4	2	23	10	0	5	2	3	0	3	3	3	4	1	90
Bones & Cartilage, Other	2	7	3	4	7	16	8	29	3	8	6	3	1	8	16	3	6	4	1	135
Brain	36	67	31	18	34	41	45	226	30	29	21	38	15	24	65	22	66	25	22	855
Breast	223	455	170	93	296	437	279	2,160	343	178	415	243	282	145	503	209	216	197	115	6,959
Bronchus & Lung	27	41	51	20	61	35	59	169	31	17	36	47	28	23	60	27	63	37	3	835
Cervix Uteri	8	37	6	0	30	11	10	61	5	9	12	11	8	2	19	8	13	12	3	265
Chronic Myeloproliferative Disorders	1	16	1	0	1	76	0	7	0	0	8	0	4	1	0	1	1	0	0	117
Colon	32	48	18	11	28	67	40	183	30	35	69	30	17	21	48	13	29	25	9	753
Corpus Uteri	25	21	5	7	38	67	13	233	15	1	35	3	10	0	30	21	10	10	18	562
Endocrine Gland, Other	4	5	3	3	2	0	3	26	2	0	3	4	3	2	2	0	1	4	8	75
Eye & Adnexa	3	4	1	4	1	1	1	10	1	1	3	1	2	2	2	2	3	2	0	44
Female genital, Other	1	0	0	0	1	2	0	4	0	0	1	1	0	0	1	0	0	0	1	12
Gallbladder	3	7	2	0	2	10	11	25	5	3	8	6	9	4	7	1	6	2	1	112

Site of tumor	Al-Anbar	Al-Basra	Al-Diwanyia	Al-Muthana	Al-Najaf	Al-Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah Al-Deen	ThiQar	Wasit	Un.	Total
Gum	0	0	0	0	0	0	0	2	0	0	1	0	0	0	1	0	0	0	0	4
Heart, Mediastinum, Pleura	2	2	4	1	2	1	3	8	1	4	2	0	1	1	1	0	1	2	0	36
Hodgkin Lymphomas	28	27	1	1	7	16	13	71	8	14	11	15	7	8	26	12	6	10	4	285
Hypopharynx	1	2	0	0	1	0	0	4	0	0	0	0	2	0	2	0	1	3	0	16
Immunoprolifrativ Diseases	0	0	0	0	0	0	0	0	0	0	1	0	0	4	0	0	0	0	0	5
Kidney	9	30	8	4	17	29	17	100	12	14	21	13	13	7	40	11	13	10	4	372
Larynx	2	2	4	3	4	2	4	15	8	2	8	8	2	3	13	5	2	6	0	93
Leukemia	32	60	32	20	34	50	51	212	31	46	42	42	38	26	73	23	47	32	0	891
Lip	1	0	0	0	0	0	1	4	0	0	2	0	0	0	0	0	1	1	0	10
Liver & Bile Ducts	8	11	17	3	23	14	14	61	6	16	4	17	11	14	28	8	24	12	1	292
Lymph node, NOS	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Meninges	5	2	13	1	9	1	6	103	12	2	3	8	6	1	5	2	10	8	54	251
Mouth - Floor	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	3
Mouth - Other	0	2	2	0	1	1	0	2	1	1	1	1	0	2	3	0	2	0	0	19
Mouth - Palate	1	2	0	0	0	0	0	2	0	0	1	1	3	0	0	1	0	0	0	11
Mouth Glands	3	3	2	1	1	0	5	4	2	0	2	0	0	0	3	0	0	0	1	27
Myelo Dysplastic Syndromes	2	7	0	0	0	14	0	5	0	0	2	0	1	3	0	2	2	3	0	41
Nasal Cavity	1	0	0	0	1	0	1	1	1	2	0	0	1	0	0	2	0	0	0	10
Nasopharynx	3	6	4	1	3	2	3	14	3	2	1	1	2	0	2	2	6	1	1	57
Nerves System	2	0	1	0	2	0	3	6	1	0	2	0	0	0	2	1	0	2	0	22
Nervous system, Other	0	4	2	3	3	0	3	5	1	0	0	3	1	1	2	0	4	2	0	34

Site of tumor	Al-Anbar	Al-Basra	Al-Diwanyia	Al-Muthana	Al-Najaf	Al-Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah Al-Deen	ThiQar	Wasit	Un.	Total
Non-Hodgkin Lymphoma	44	63	37	14	39	18	25	158	10	27	27	29	19	17	47	20	42	22	10	668
Esophagus	2	13	2	4	5	19	6	13	4	6	7	6	3	0	6	1	4	2	1	104
Oropharynx	2	0	0	0	0	0	3	3	4	0	1	0	0	0	0	0	0	0	0	13
Other Digestive Organs	1	0	2	2	3	1	0	8	1	1	1	0	0	1	0	0	0	1	0	22
Other Respiratory & Thoracic	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	3
Ovary	30	60	19	9	54	68	39	224	30	29	40	26	41	14	46	27	28	18	15	817
Pancreas	15	24	15	9	23	21	28	93	15	9	24	14	14	14	36	4	24	9	1	392
Parotid Gland	4	8	1	0	0	2	4	10	2	1	3	2	3	1	2	0	1	1	0	45
Pelvis	1	0	0	0	0	1	1	1	0	0	2	0	0	0	0	0	4	1	0	11
Peritoneum	1	4	1	0	0	2	0	8	0	0	0	2	1	0	0	0	3	0	0	22
Pharynx	3	0	0	0	0	0	2	4	0	0	0	1	0	0	0	0	0	0	0	10
Placenta	3	13	0	1	0	16	2	26	3	1	7	4	2	0	3	1	5	4	1	92
Plasma Cell Tumor	9	16	5	0	8	31	6	35	3	3	14	8	2	1	17	3	9	2	1	173
Pyriform	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Rectosigmoid Junction	8	1	2	0	1	1	0	8	3	0	1	0	2	0	0	1	1	0	0	29
Rectum	17	22	7	4	8	35	11	77	12	13	21	6	17	5	20	14	14	3	1	307
Skin, other	14	30	25	8	23	39	12	114	35	47	91	22	24	10	36	28	4	22	21	605
Small Intestine	3	1	1	0	4	5	3	11	2	0	5	5	3	2	2	3	7	3	0	60
soft tissues	7	17	3	2	10	14	11	61	5	3	8	6	11	5	11	9	2	7	1	193
Stomach	38	35	20	11	15	37	23	114	40	19	40	14	15	9	42	13	22	14	4	525
Thymus	1	2	1	0	0	0	3	5	0	0	1	0	3	0	1	1	0	0	0	18
Thyroid Gland	102	57	57	28	85	72	63	426	37	29	69	48	28	27	86	75	56	58	18	1,421
Tongue, Base	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	3	2	0	11

Site of tumor	Al-Anbar	Al-Basra	Al-Diwanyia	Al-Muthana	Al-Najaf	Al-Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah Al-Deen	ThiQar	Wasit	Un.	Total
Tongue, Other	1	3	0	1	0	6	7	16	1	0	5	2	2	4	4	1	11	0	0	64
Tonsil	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	3
Trachea	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2
Unknown Primary Site	8	36	3	2	8	46	3	120	10	15	45	6	5	6	30	5	8	9	26	391
Unspecified Site	0	1	7	1	3	6	2	27	7	0	4	0	0	2	3	2	2	4	1	72
Ureter	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Urinary Bladder	6	33	20	11	20	12	30	83	19	9	20	19	12	18	14	4	41	22	10	403
Urinary Organs, Other	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	1	1	0	0	5
Uterus Unspecified	4	39	20	11	7	3	39	112	8	19	7	23	31	13	44	11	23	19	1	434
Vagina	2	1	0	2	3	2	1	6	1	0	0	1	1	0	0	2	1	2	0	25
Vulva	1	1	0	0	1	0	5	16	1	1	3	3	0	4	1	0	3	0	2	42
Total	803	1,361	641	328	936	1,361	930	5,608	825	617	1,182	748	712	458	1,420	613	869	643	362	20,417
Percentage	3.93	6.67	3.14	1.61	4.58	6.67	4.56	27.47	4.04	3.02	5.79	3.66	3.49	2.24	6.95	3.00	4.26	3.15	1.77	100.00
IR	90.82	91.62	97.54	78.88	124.29	122.72	88.70	136.50	99.22	93.23	125.40	120.68	87.43	79.92	75.83	75.66	81.14	91.77	---	105.46

Top Ten Cancers in Iraq 2019

Iraq
Populations Number : 39127889
Cancer Cases Number :35864
Incidence Rate: 91.66/100,000 Iraq Populations



3.3. Top ten cancers in Iraq, 2019:

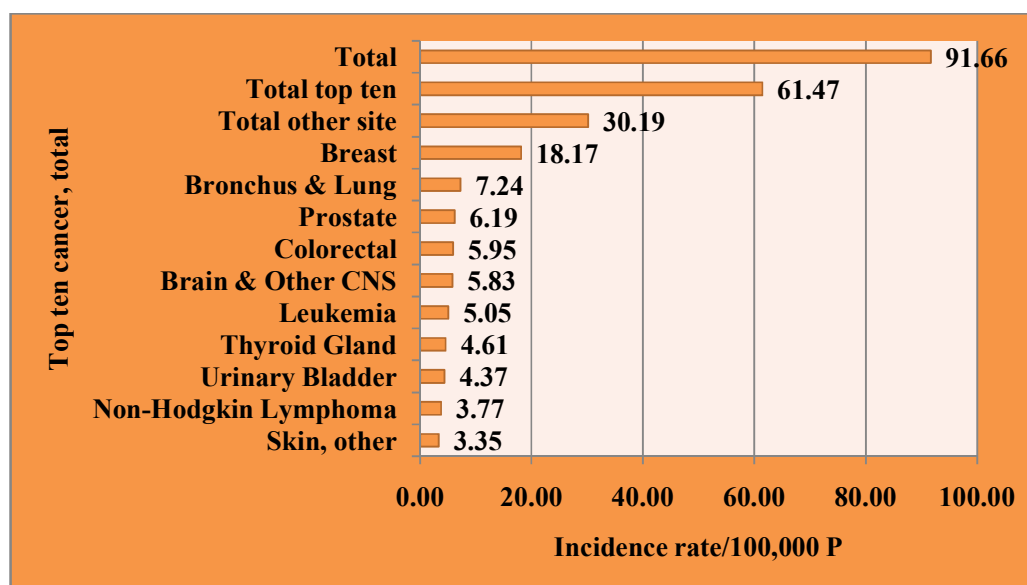
3.3.1. Distribution and the incidence rate of the top ten cancers, Iraq, 2019:

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

Table No.; (13) Distribution of the top ten cancers, Iraq, 2019

Top Ten Total		No.	%
1	Breast	7,109	19.82
2	Bronchus & Lung	2,832	7.90
3	Colorectal	2,328	6.49
4	Brain & Other CNS	2,283	6.37
5	Leukemia	1,977	5.51
6	Thyroid Gland	1,802	5.02
7	Urinary Bladder	1,710	4.77
8	Non-Hodgkin Lymphoma	1,477	4.12
9	Skin	1,311	3.66
10	Prostate	1,224	3.41
Total Top Ten		24,053	67.07
Total other Site		11,811	32.93
Total		35,864	100.00%

Figure No.; (9) Incidence rate of the top ten cancer /100,000 populations, Iraq, 2019



The prostate incidence rate is calculated from the male populations.

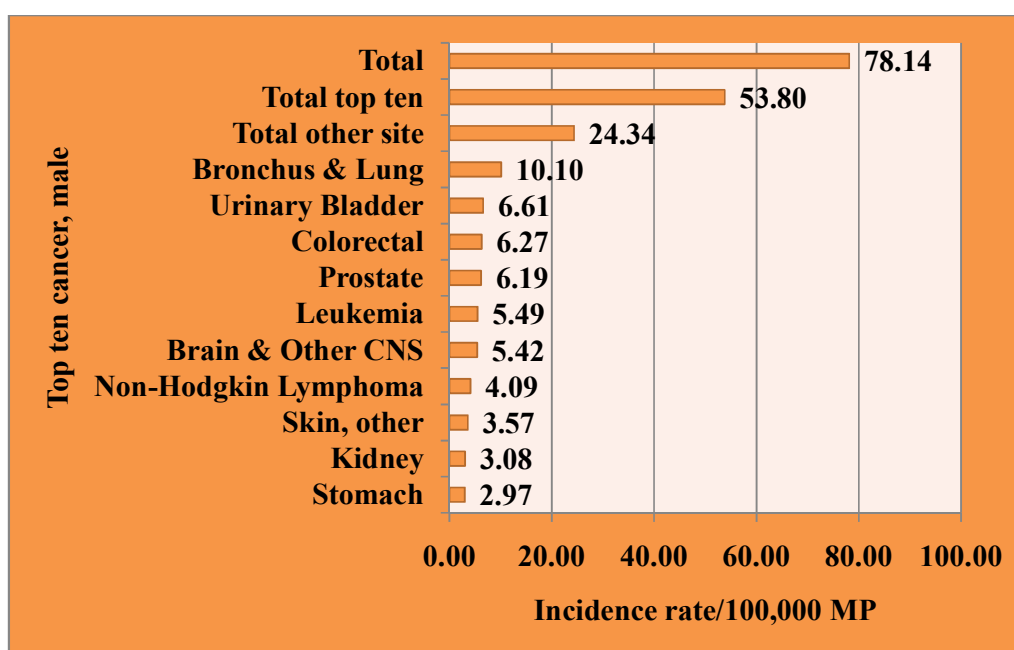
3.3.2. Distribution and the incidence rate of the top ten cancers in males, Iraq, 2019:

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

Table No.; (14) Distribution of the top ten cancers in males, Iraq, 2019

Top Ten Male		No.	%
1	Bronchus & Lung	1,997	12.93
2	Urinary Bladder	1,307	8.46
3	Colorectal	1,239	8.02
4	Prostate	1,224	7.92
5	Leukemia	1,086	7.03
6	Brain & Other CNS	1,071	6.93
7	Non-Hodgkin Lymphoma	809	5.24
8	Skin, other	706	4.57
9	Kidney	608	3.94
10	Stomach	588	3.81
Total Top Ten		10,635	68.85
Total other Site		4812	31.15
Total		15,447	100.00%

Figure No.; (10) Incidence rate of the top ten cancer in males /100,000 male populations, Iraq, 2019



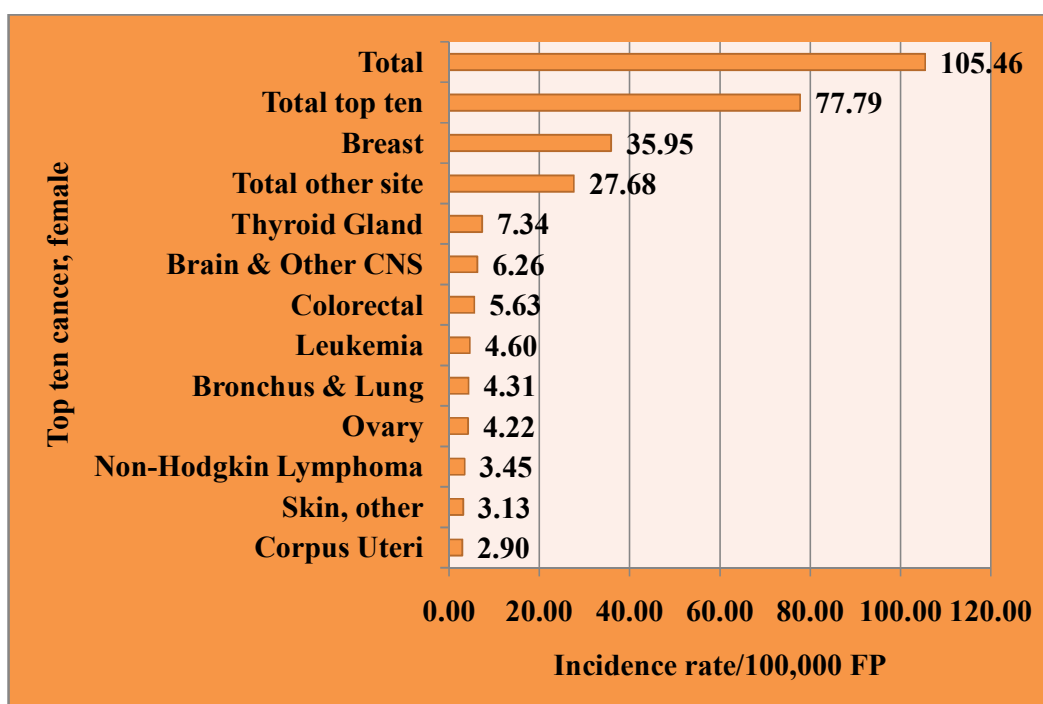
3.3.3. Distribution and the incidence rate of the top ten cancers in females, Iraq, 2019:

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

Table No.; (15) Distribution of the top ten cancers in females, Iraq, 2019

Top Ten Female		No.	%
1	Breast	6,959	34.08
2	Thyroid Gland	1,421	6.96
3	Brain & Other CNS	1,212	5.94
4	Colorectal	1,089	5.33
5	Leukemia	891	4.36
6	Bronchus & Lung	835	4.09
7	Ovary	817	4.00
8	Non-Hodgkin Lymphoma	668	3.27
9	Skin, other	605	2.96
10	Corpus Uteri	562	2.75
Total Top Ten		15,059	73.76
Total other Site		5,358	26.24
Total		20,417	100.00%

Figure No.; (11) Incidence rate of the top ten cancers in females /100,000 female populations, Iraq, 2019



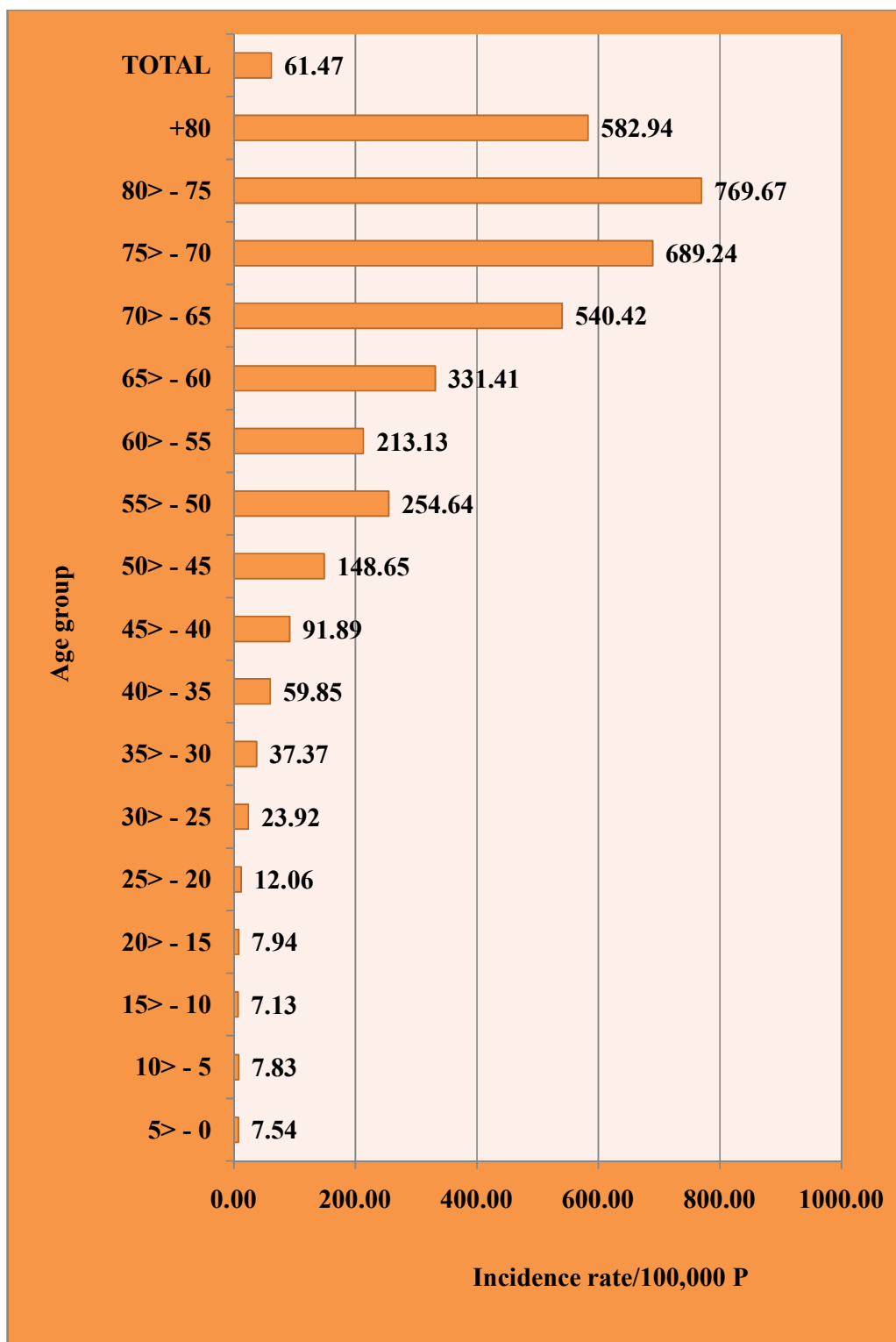
3.3.4. Distribution and the incidence rate of the top ten cancers by site and age group, Iraq, 2019:

Table No.; (16), Figure No.; (12) shows that the distribution and the incidence rate of the top ten cancers in Iraq by site and age group. It shows that the highest percentage was recorded among the age group 50 - < 55 years and the lowest among the age group 15 - < 20 years. While the highest incidence rate was recorded among the age group 75 - < 80 years and the lowest recorded among 10 - < 15 years.

Table No.; (16) Distribution of the top ten cancers by site and age group, Iraq, 2019

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+	Un.	Total
Breast	0	0	0	2	29	132	314	568	971	1,109	1113	904	709	572	338	177	158	13	7,109
Bronchus & Lung	0	0	1	3	14	14	12	39	71	161	240	274	387	565	476	286	283	6	2,832
Colorectal	0	0	2	7	34	54	90	109	174	227	274	245	283	299	240	145	142	3	2,328
Brain & Other CNS	113	156	133	86	83	103	109	150	203	208	212	161	168	183	104	55	55	1	2,283
Leukemia	249	197	141	114	103	80	78	71	75	113	126	118	122	127	91	90	81	1	1,977
Thyroid Gland	0	6	10	45	94	213	246	261	220	204	162	97	83	64	36	27	28	6	1,802
Urinary Bladder	9	1	4	3	5	11	23	35	57	85	139	149	208	272	304	181	217	7	1,710
Non-Hodgkin Lymphoma	58	54	43	62	64	71	69	65	92	110	144	126	149	147	93	77	52	1	1,477
Skin, other	4	4	5	10	10	18	39	56	58	92	134	105	173	144	175	97	176	11	1,311
Prostate	0	0	0	1	1	1	1	2	3	10	47	68	179	204	250	227	229	1	1,224
Total	433	418	339	333	437	697	981	1,356	1,924	2,319	2,591	2,247	2,461	2,577	2,107	1,362	1,421	50	24,053
Percentage	1.80	1.74	1.41	1.38	1.82	2.90	4.08	5.64	8.00	9.64	10.77	9.34	10.23	10.71	8.76	5.66	5.91	0.21	100.00

Figure No.; (12) Incidence rate of the top ten cancer /100, 000 populations by age group, Iraq, 2019



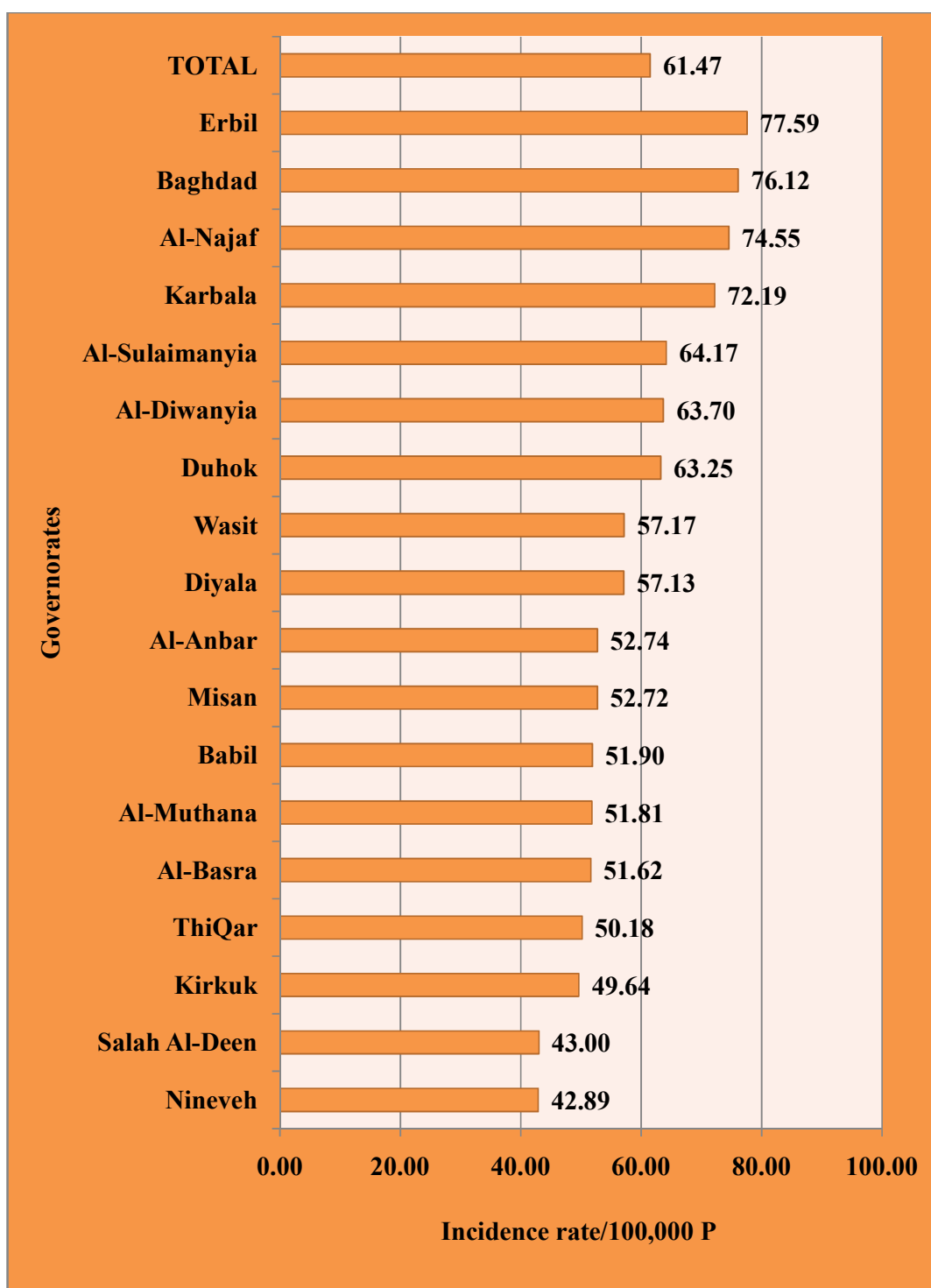
3.3.5. Distribution and the incidence rate of the top ten cancers by site and governorates, Iraq, 2019:

Table No.; (17), Figure No.; (13) shows the distribution and the incidence rate of the 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 Nineveh.

Table No.; (17) Distribution of the top ten cancers by site and governorates, Iraq, 2019

Top Ten	Al-Anbar	Al-Basra	Al-Diwan	Al-Muthana	Al-Najaf	Al-Sulaimaniya	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah Al-Deen	ThiQar	Wasit	Un.	Total
Breast	227	467	178	95	301	443	286	2,205	358	182	423	248	285	146	513	213	218	200	121	7,109
Bronchus & Lung	85	160	138	62	170	146	177	582	98	125	160	115	81	90	228	81	210	104	20	2,832
Colorectal	114	145	58	29	83	199	94	609	97	112	183	86	77	64	170	55	74	55	24	2,328
Brain & Other CNS	86	140	87	56	83	99	103	664	92	57	57	88	65	55	136	52	146	80	137	2,283
Leukemia	75	150	72	39	77	123	110	444	75	96	92	90	85	62	152	53	106	76	0	1,977
Thyroid Gland	125	74	84	36	106	94	76	532	52	40	90	63	34	33	105	92	70	70	26	1,802
Urinary Bladder	49	132	76	52	90	76	104	385	57	43	88	76	47	73	86	31	111	87	47	1,710
Non-Hodgkin Lymphoma	103	139	73	29	89	44	59	340	29	56	67	65	49	33	86	52	95	51	18	1,477
Skin, other	35	67	41	15	57	81	36	283	73	99	190	40	45	21	72	49	13	51	43	1,311
Prostate	60	67	37	20	70	119	55	305	29	29	127	32	46	25	94	26	36	35	12	1,224
Total	959	1,541	844	433	1,126	1,424	1,100	6349	960	839	1,477	903	814	602	1642	704	1,079	809	448	24,053
Percentage	3.99	6.41	3.51	1.80	4.68	5.92	4.57	26.40	3.99	3.49	6.14	3.75	3.38	2.50	6.83	2.93	4.49	3.36	1.86	100.00

Figure No.; (13) Incidence rate of the top ten cancer /100, 000 populations by governorates, Iraq, 2019



Results

Distribution & Incidence Rate of Top Ten Cancers by Governorates

Erbil
Populations Number : 1903608
Cancer Cases Number :2213
Incidence Rate: 116.25/100,000 Erbil Populations

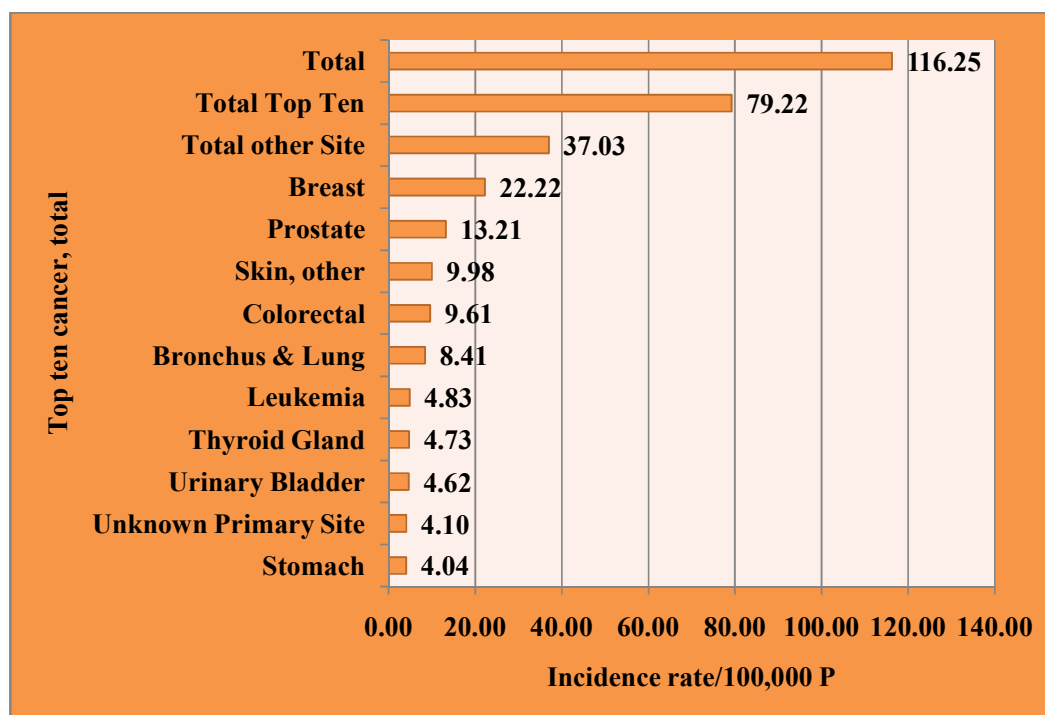


3.4.1. Erbil governorate

Table No.; (18) Distribution of the top ten cancers in Erbil, Iraq, 2019

Top Ten Total		No.	%
1	Breast	423	19.11
2	Skin, other	190	8.59
3	Colorectal	183	8.27
4	Bronchus & Lung	160	7.23
5	Prostate	127	5.74
6	Leukemia	92	4.16
7	Thyroid Gland	90	4.07
8	Urinary Bladder	88	3.98
9	Unknown Primary Site	78	3.52
10	Stomach	77	3.48
Total Top Ten		1,508	68.14
Total other Site		705	31.86
Total		2,213	100.00%

Figure No.; (14) Incidence rate of the top ten cancers in Erbil /100,000 Erbil populations, Iraq, 2019



The prostate incidence rate is calculated from the male populations.

Table No.; (19) Distribution of the top ten cancers in males, Erbil, Iraq, 2019

Top Ten Male		No.	%
1	Prostate	127	12.32
2	Bronchus & Lung	124	12.03
3	Skin, other	99	9.60
4	Colorectal	92	8.92
5	Urinary Bladder	68	6.60
6	Kidney	54	5.24
7	Leukemia	50	4.85
8	Non-Hodgkin Lymphoma	40	3.88
9	Larynx	37	3.59
10	Stomach	37	3.59
Total Top Ten		728	70.61
Total other Site		303	29.39
Total		1,031	100.00%

Figure No.; (15) Incidence rate of the top ten cancers in males /100,000 male populations, Erbil, Iraq, 2019

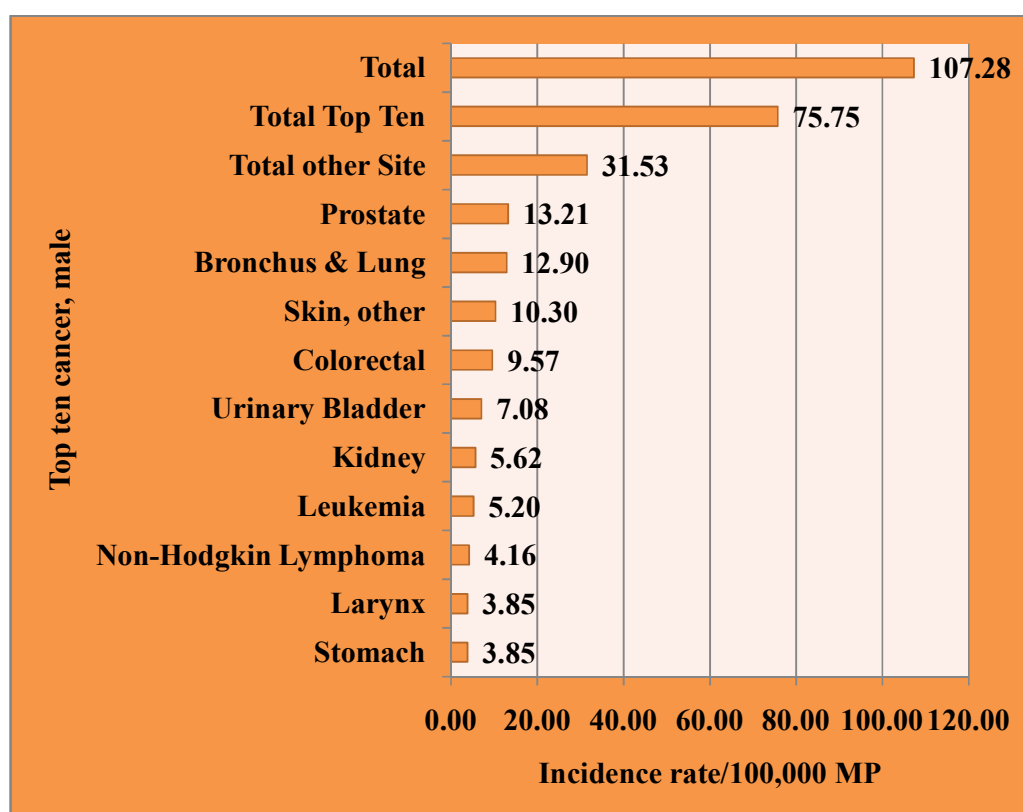
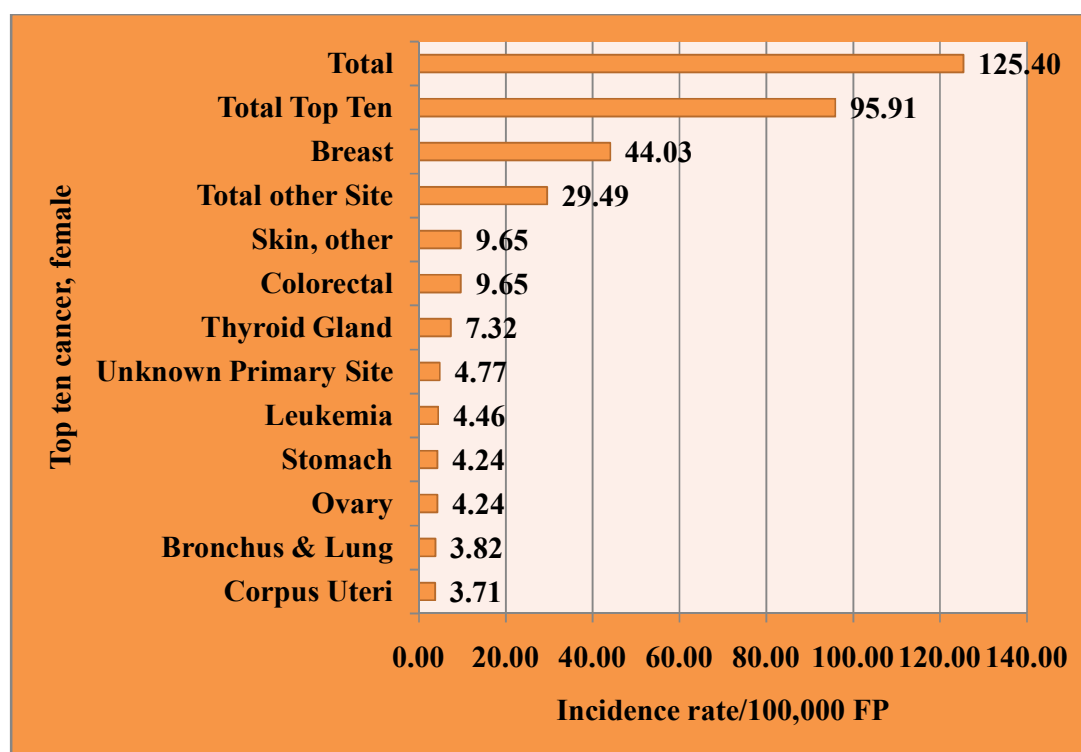


Table No.; (20) Distribution of the top ten cancers in females, Erbil, Iraq, 2019

Top Ten Female		No.	%
1	Breast	415	35.11
2	Colorectal	91	7.70
3	Skin, other	91	7.70
4	Thyroid Gland	69	5.84
5	Unknown Primary Site	45	3.81
6	Leukemia	42	3.55
7	Ovary	40	3.38
8	Stomach	40	3.38
9	Bronchus & Lung	36	3.05
10	Corpus Uteri	35	2.96
Total Top Ten		904	76.48
Total other Site		278	23.52
Total		1,182	100.00%

Figure No.; (16) Incidence rate of the top ten cancers in females /100,000 female populations, Erbil, Iraq, 2019

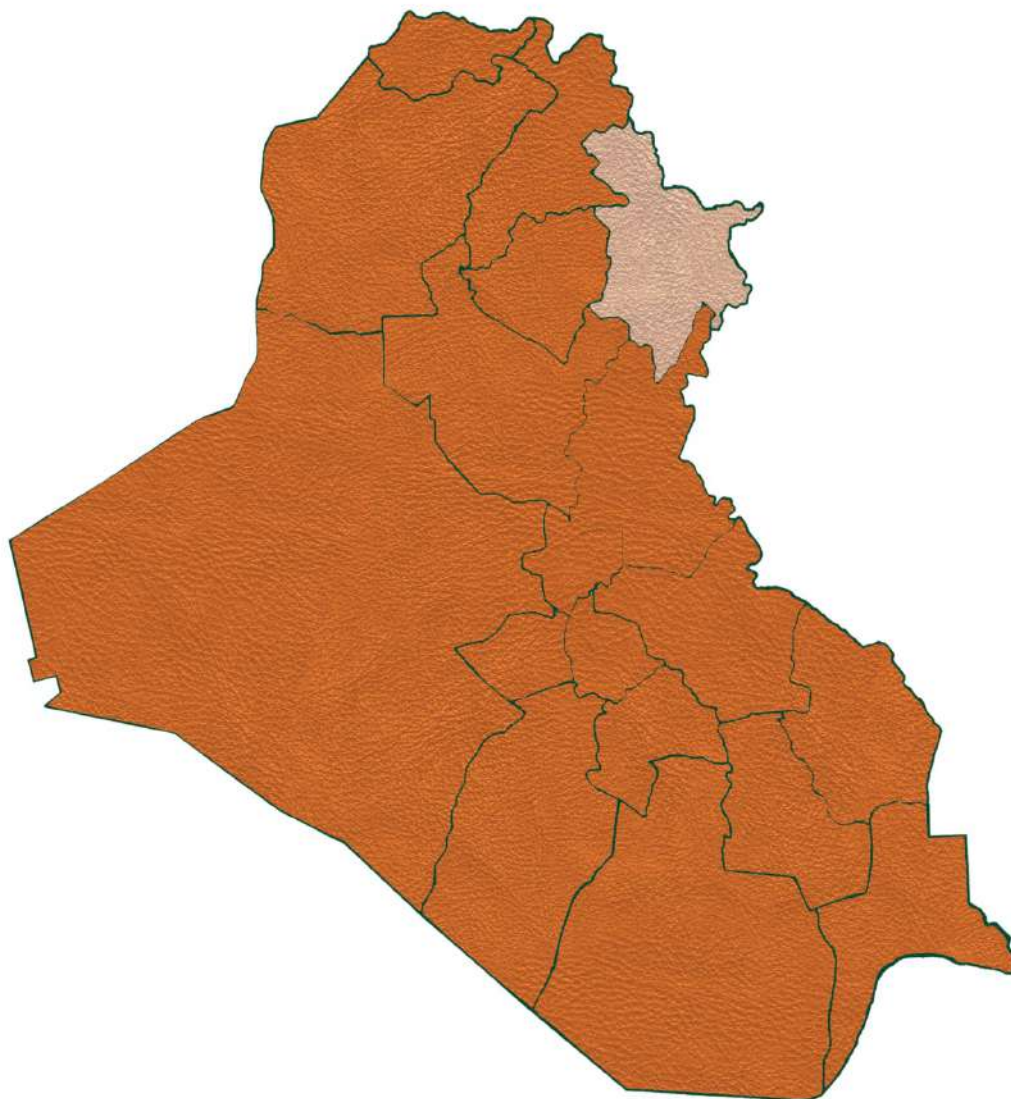


**Table No.; (21) Distribution and the incidence rate of cancer/100,000 populations
by ICD-O, site, and gender in Erbil, Iraq, 2019**

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip		2	0.09	0.21	2	0.09	0.21	4	0.18	0.21
C01 / Tongue, Base		0	0.00	0.00	1	0.05	0.10	1	0.05	0.05
C02 / Tongue, Other		5	0.23	0.53	5	0.23	0.52	10	0.45	0.53
C03 / Gum		1	0.05	0.11	0	0.00	0.00	1	0.05	0.05
C05 / Mouth - Palate		1	0.05	0.11	0	0.00	0.00	1	0.05	0.05
C06 / Mouth - Other		1	0.05	0.11	1	0.05	0.10	2	0.09	0.11
C07 / Parotid Gland		3	0.14	0.32	0	0.00	0.00	3	0.14	0.16
C08 / Mouth Glands		2	0.09	0.21	0	0.00	0.00	2	0.09	0.11
C09 / Tonsil		1	0.05	0.11	0	0.00	0.00	1	0.05	0.05
C10 / Oropharynx		1	0.05	0.11	1	0.05	0.10	2	0.09	0.11
C11 / Nasopharynx		1	0.05	0.11	4	0.18	0.42	5	0.23	0.26
C13 / Hypopharynx		0	0.00	0.00	1	0.05	0.10	1	0.05	0.05
C15 / Oesophagus		7	0.32	0.74	16	0.72	1.66	23	1.04	1.21
C16 / Stomach		40	1.81	4.24	37	1.67	3.85	77	3.48	4.04
C17 / Small intestine		5	0.23	0.53	9	0.41	0.94	14	0.63	0.74
C18 / Colon		69	3.12	7.32	45	2.03	4.68	114	5.15	5.99
C19 / Recto sigmoid Junction		1	0.05	0.11	5	0.23	0.52	6	0.27	0.32
C20 / Rectum		21	0.95	2.23	42	1.90	4.37	63	2.85	3.31
C21 / Anus & Anal Canal		1	0.05	0.11	4	0.18	0.42	5	0.23	0.26
C22 / Liver & Bile Ducts		4	0.18	0.42	14	0.63	1.46	18	0.81	0.95
C23 / Gallbladder		8	0.36	0.85	4	0.18	0.42	12	0.54	0.63
C24 / Biliary Tract , Other		5	0.23	0.53	7	0.32	0.73	12	0.54	0.63
C25 / Pancreas		24	1.08	2.55	19	0.86	1.98	43	1.94	2.26
C26 / Other Digestive Organs		1	0.05	0.11	1	0.05	0.10	2	0.09	0.11
C31 / Accessory Sinus		0	0.00	0.00	1	0.05	0.10	1	0.05	0.05
C32 / Larynx		8	0.36	0.85	37	1.67	3.85	45	2.03	2.36
C34 / Bronchus & Lung		36	1.63	3.82	124	5.60	12.90	160	7.23	8.41
C37 / Thymus		1	0.05	0.11	0	0.00	0.00	1	0.05	0.05
C38 / Heart, Mediastinum, Pleura		2	0.09	0.21	3	0.14	0.31	5	0.23	0.26
C40 / Bone & Cartilage, Limbs		5	0.23	0.53	9	0.41	0.94	14	0.63	0.74
C41 / Bones & Cartilage, Other		6	0.27	0.64	2	0.09	0.21	8	0.36	0.42
C42/ Reticulo endothelial & Hemato poietic System	Chronic Myeloproliferative Disorders	8	0.36	0.85	10	0.45	1.04	18	0.81	0.95
	Immunoprolifrativ Diseases	1	0.05	0.11	0	0.00	0.00	1	0.05	0.05
	Leukemia	42	1.90	4.46	50	2.26	5.20	92	4.16	4.83
	Myelo Dysplastic Syndromes	2	0.09	0.21	2	0.09	0.21	4	0.18	0.21
	Plasma Cell Tumor	14	0.63	1.49	20	0.90	2.08	34	1.54	1.79
C44 / Skin, other		91	4.11	9.65	99	4.47	10.30	190	8.59	9.98

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C47 / Nerves System		2	0.09	0.21	1	0.05	0.10	3	0.14	0.16
C49 / Soft tissues		8	0.36	0.85	12	0.54	1.25	20	0.90	1.05
C50 / Breast		415	18.75	44.03	8	0.36	0.83	423	19.11	22.22
C51 / Vulva		3	0.14	0.32	0	0.00	0.00	3	0.14	0.32
C53 / Cervix Uteri		12	0.54	1.27	0	0.00	0.00	12	0.54	1.27
C54 / Corpus Uteri		35	1.58	3.71	0	0.00	0.00	35	1.58	3.71
C55 / Uterus Unspecified		7	0.32	0.74	0	0.00	0.00	7	0.32	0.74
C56 / Ovary		40	1.81	4.24	0	0.00	0.00	40	1.81	4.24
C57 / Female genital, other		1	0.05	0.11	0	0.00	0.00	1	0.05	0.11
C59 / Placenta		7	0.32	0.74	0	0.00	0.00	7	0.32	0.74
C61 / Prostate		0	0.00	0.00	127	5.74	13.21	127	5.74	13.21
C62 / Testis		0	0.00	0.00	19	0.86	1.98	19	0.86	1.98
C63 / Male genital, other		0	0.00	0.00	1	0.05	0.10	1	0.05	0.10
C64 / Kidney		21	0.95	2.23	54	2.44	5.62	75	3.39	3.94
C65 / Pelvis		2	0.09	0.21	2	0.09	0.21	4	0.18	0.21
C66 / Ureter		0	0.00	0.00	1	0.05	0.10	1	0.05	0.05
C67 / Urinary Bladder		20	0.90	2.12	68	3.07	7.08	88	3.98	4.62
C69 / Eye & Adnexa		3	0.14	0.32	1	0.05	0.10	4	0.18	0.21
C70 / Meninges		3	0.14	0.32	1	0.05	0.10	4	0.18	0.21
C71 / Brain		21	0.95	2.23	29	1.31	3.02	50	2.26	2.63
C73 / Thyroid Gland		69	3.12	7.32	21	0.95	2.19	90	4.07	4.73
C74 / Adrenal gland		3	0.14	0.32	6	0.27	0.62	9	0.41	0.47
C75 / Endocrine Gland, Other		3	0.14	0.32	0	0.00	0.00	3	0.14	0.16
C76 / Unspecified Site		4	0.18	0.42	4	0.18	0.42	8	0.36	0.42
C77/ Lymph nodes	Hodgkin Lymphoma	11	0.50	1.17	28	1.27	2.91	39	1.76	2.05
	Non-Hodgkin Lymphoma	27	1.22	2.86	40	1.81	4.16	67	3.03	3.52
C80 / Unknown Primary Site		45	2.03	4.77	33	1.49	3.43	78	3.52	4.10
Total		1,182	53.41	125.40	1,031	46.59	107.28	2,213	100.00	116.25

Al-Sulaimanyia
Populations Number : 2219194
Cancer Cases Number :2508
Incidence Rate:113.01/100,000 Al-Sulaimanyia Populations

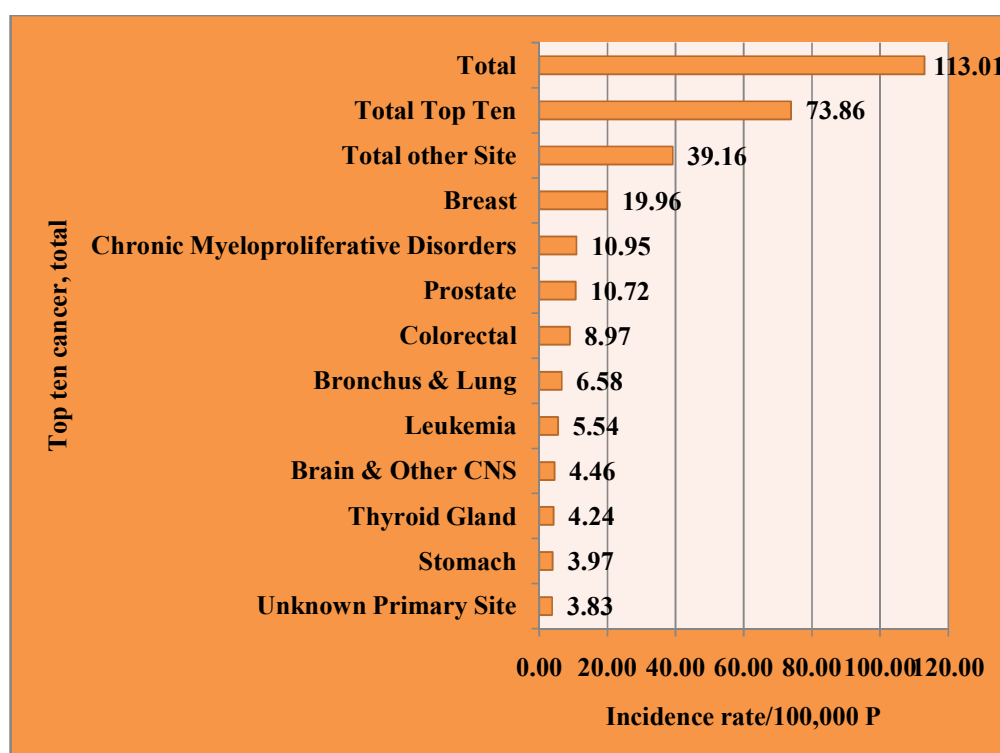


3.4.2. Al Sulaimaniya governorate

Table No.; (22) Distribution of the top ten cancers in Al Sulaimaniya, Iraq, 2019

Top Ten Total		No.	%
1	Breast	443	17.66
2	Chronic Myeloproliferative Disorders	243	9.69
3	Colorectal	199	7.93
4	Bronchus & Lung	146	5.82
5	Leukemia	123	4.90
6	Prostate	119	4.74
7	Brain & Other CNS	99	3.95
8	Thyroid Gland	94	3.75
9	Stomach	88	3.51
10	Unknown Primary Site	85	3.39
Total Top Ten		1,639	65.35
Total other Site		869	34.65
Total		2,508	100.00%

Figure No.; (17) Incidence rate of the top ten cancers in Al Sulaimaniya /100,000 Al Sulaimaniya Populations, Iraq, 2019



The prostate incidence rate is calculated from the male populations.

Table No.; (23) Distribution of the top ten cancers in males, Al Sulaimaniya, Iraq, 2019

Top Ten Male		No.	%
1	Chronic Myeloproliferative Disorders	167	14.56
2	Prostate	119	10.37
3	Bronchus & Lung	111	9.68
4	Colorectal	96	8.37
5	Leukemia	73	6.36
6	Urinary Bladder	64	5.58
7	Brain & Other CNS	57	4.97
8	Stomach	51	4.45
9	Skin, other	42	3.66
10	Unknown Primary Site	39	3.40
Total Top Ten		819	71.40
Total other Site		328	28.60
Total		1,147	100.00%

Figure No.; (18) Incidence rate of the top ten cancers in males / 100,000 male populations, Al Sulaimaniya, Iraq, 2019

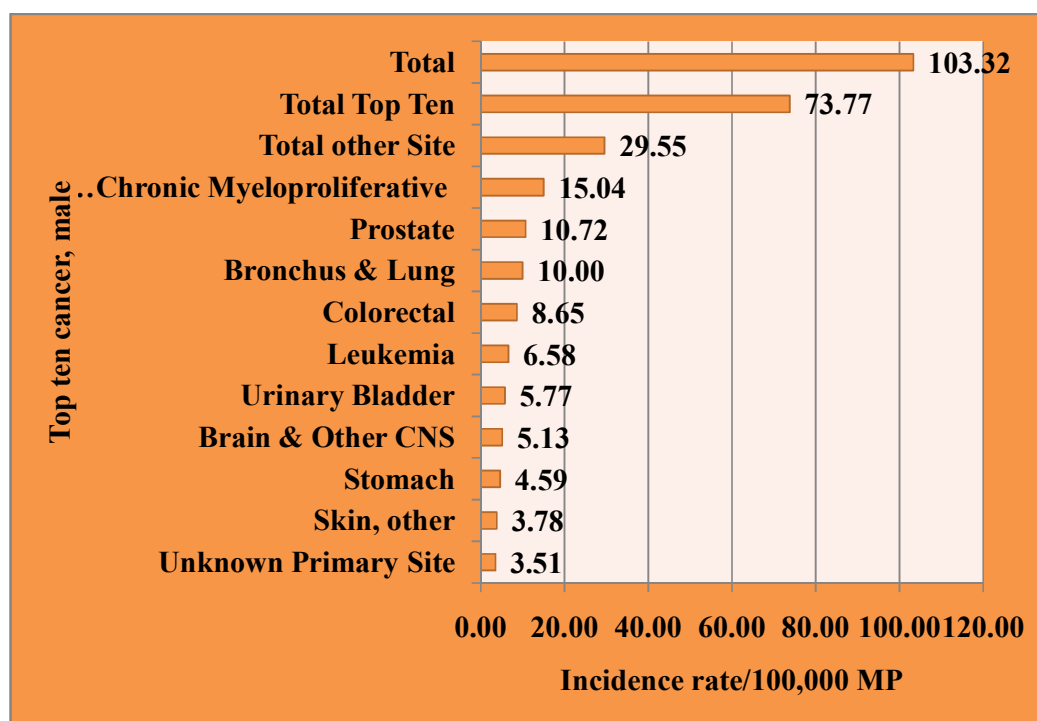


Table No.; (24) Distribution of the top ten cancers in females, Al Sulaimaniya, Iraq, 2019

Top Ten Female		No.	%
1	Breast	437	32.11
2	Colorectal	103	7.57
3	Chronic Myeloproliferative Disorders	76	5.58
4	Thyroid Gland	72	5.29
5	Ovary	68	5.00
6	Corpus Uteri	67	4.92
7	Leukemia	50	3.67
8	Unknown Primary Site	46	3.38
9	Brain & Other CNS	42	3.09
10	Skin, other	39	2.87
Total Top Ten		1,000	73.48
Total other Site		361	26.52
Total		1,361	100.00%

Figure No.; (19) Incidence rate of the top ten cancers in females /100,000 female populations, Al Sulaimaniya, Iraq, 2019

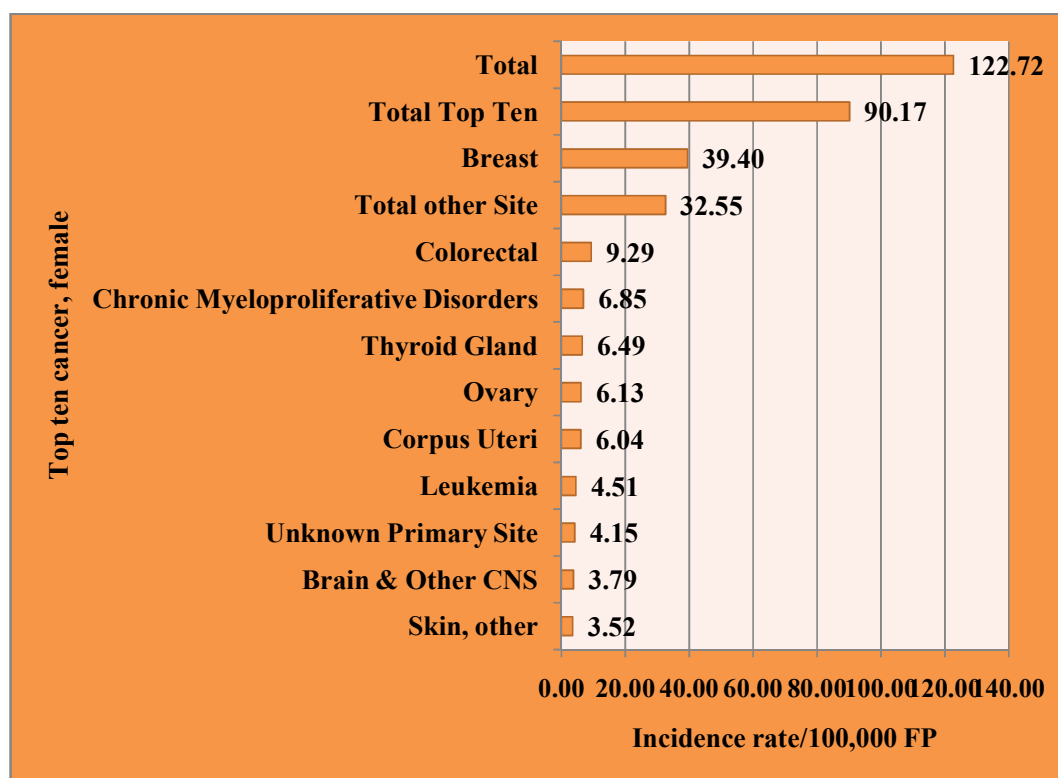
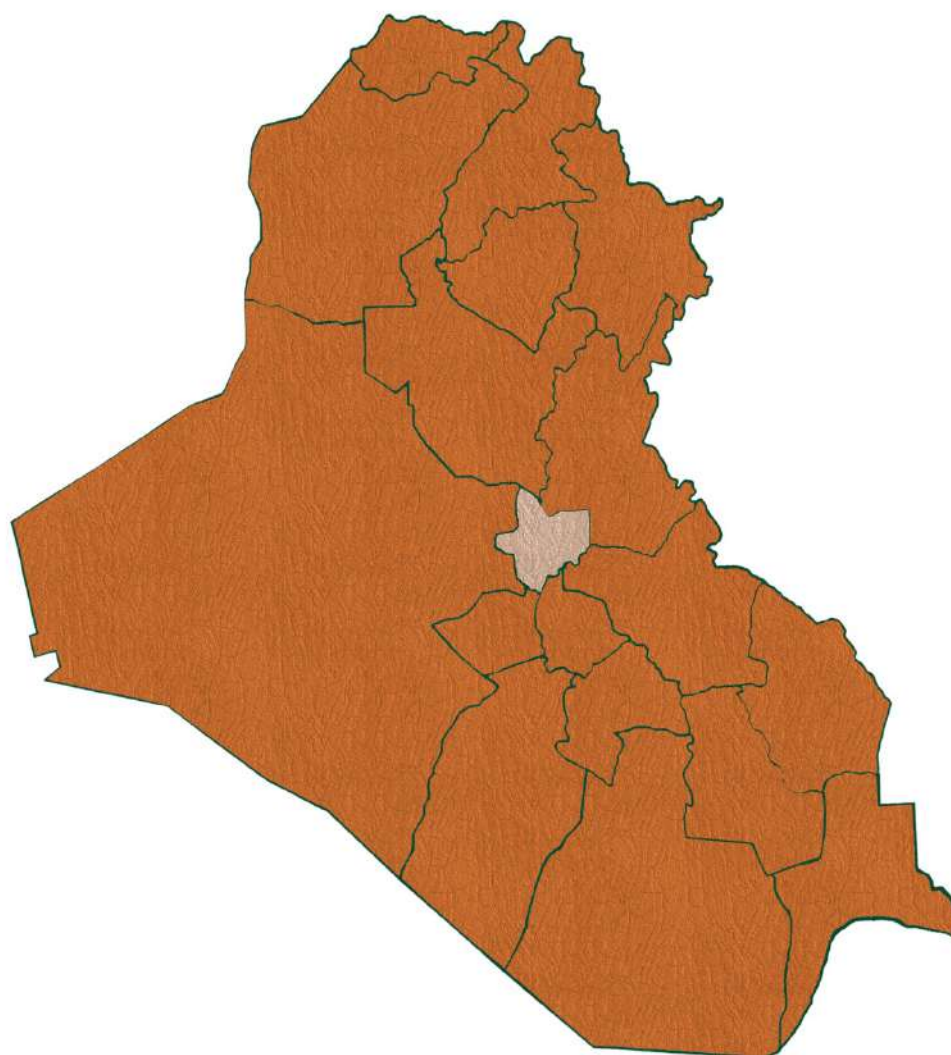


Table No.; (25) Distribution and the incidence rate of cancer /100,000 populations by ICD-O, site, and gender in Al Sulaimaniya, Iraq, 2019

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip		0	0.00	0.00	2	0.08	0.18	2	0.08	0.09
C02 / Tongue, Other		6	0.24	0.54	1	0.04	0.09	7	0.28	0.32
C04 / Mouth - Floor		0	0.00	0.00	2	0.08	0.18	2	0.08	0.09
C06 / Mouth - Other		1	0.04	0.09	1	0.04	0.09	2	0.08	0.09
C07 / Parotid Gland		2	0.08	0.18	0	0.00	0.00	2	0.08	0.09
C11 / Nasopharynx		2	0.08	0.18	7	0.28	0.63	9	0.36	0.41
C13 / Hypopharynx		0	0.00	0.00	1	0.04	0.09	1	0.04	0.05
C15 / Esophagus		19	0.76	1.71	22	0.88	1.98	41	1.63	1.85
C16 / Stomach		37	1.48	3.34	51	2.03	4.59	88	3.51	3.97
C17 / Small intestine		5	0.20	0.45	2	0.08	0.18	7	0.28	0.32
C18 / Colon		67	2.67	6.04	54	2.15	4.86	121	4.82	5.45
C19 / Recto sigmoid Junction		1	0.04	0.09	0	0.00	0.00	1	0.04	0.05
C20 / Rectum		35	1.40	3.16	42	1.67	3.78	77	3.07	3.47
C22 / Liver & Bile Ducts		14	0.56	1.26	16	0.64	1.44	30	1.20	1.35
C23 / Gallbladder		10	0.40	0.90	6	0.24	0.54	16	0.64	0.72
C24 / Biliary Tract , Other		2	0.08	0.18	5	0.20	0.45	7	0.28	0.32
C25 / Pancreas		21	0.84	1.89	34	1.36	3.06	55	2.19	2.48
C26 / Other Digestive Organs		1	0.04	0.09	0	0.00	0.00	1	0.04	0.05
C30 / Nasal Cavity		0	0.00	0.00	1	0.04	0.09	1	0.04	0.05
C32 / Larynx		2	0.08	0.18	18	0.72	1.62	20	0.80	0.90
C33 / Trachea		0	0.00	0.00	1	0.04	0.09	1	0.04	0.05
C34 / Bronchus & Lung		35	1.40	3.16	111	4.43	10.00	146	5.82	6.58
C37 / Thymus		0	0.00	0.00	1	0.04	0.09	1	0.04	0.05
C38 / Heart, Mediastinum, Pleura		1	0.04	0.09	1	0.04	0.09	2	0.08	0.09
C40 / Bone & Cartilage, Limbs		4	0.16	0.36	2	0.08	0.18	6	0.24	0.27
C41 / Bones & Cartilage, Other		16	0.64	1.44	16	0.64	1.44	32	1.28	1.44
C42/ Reticulo endothelial & Hemato poietic System	Chronic Myelo Proliferative Disorders	76	3.03	6.85	167	6.66	15.04	243	9.69	10.95
	Leukemia	50	1.99	4.51	73	2.91	6.58	123	4.90	5.54
	Myelo Dysplastic Syndromes	14	0.56	1.26	8	0.32	0.72	22	0.88	0.99
	Plasma Cell Tumor	31	1.24	2.80	20	0.80	1.80	51	2.03	2.30
C44 / Skin, other		39	1.56	3.52	42	1.67	3.78	81	3.23	3.65

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C48 / Peritoneum		2	0.08	0.18	1	0.04	0.09	3	0.12	0.14
C49 / Soft tissues		14	0.56	1.26	17	0.68	1.53	31	1.24	1.40
C50 / Breast		437	17.42	39.40	6	0.24	0.54	443	17.66	19.96
C52 / Vagina		2	0.08	0.18	0	0.00	0.00	2	0.08	0.18
C53 / Cervix Uteri		11	0.44	0.99	0	0.00	0.00	11	0.44	0.99
C54 / Corpus Uteri		67	2.67	6.04	0	0.00	0.00	67	2.67	6.04
C55 / Uterus Unspecified		3	0.12	0.27	0	0.00	0.00	3	0.12	0.27
C56 / Ovary		68	2.71	6.13	0	0.00	0.00	68	2.71	6.13
C57 / Female genital, other		2	0.08	0.18	0	0.00	0.00	2	0.08	0.18
C59 / Placenta		16	0.64	1.44	0	0.00	0.00	16	0.64	1.44
C61 / Prostate		0	0.00	0.00	119	4.74	10.72	119	4.74	10.72
C62 / Testis		0	0.00	0.00	14	0.56	1.26	14	0.56	1.26
C63 / Male genital, other		0	0.00	0.00	2	0.08	0.18	2	0.08	0.18
C64 / Kidney		29	1.16	2.61	35	1.40	3.15	64	2.55	2.88
C65 / Pelvis		1	0.04	0.09	0	0.00	0.00	1	0.04	0.05
C67 / Urinary Bladder		12	0.48	1.08	64	2.55	5.77	76	3.03	3.42
C68 / Urinary Organs, Other		2	0.08	0.18	1	0.04	0.09	3	0.12	0.14
C69 / Eye & Adnexa		1	0.04	0.09	2	0.08	0.18	3	0.12	0.14
C70 / Meninges		1	0.04	0.09	0	0.00	0.00	1	0.04	0.05
C71 / Brain		41	1.63	3.70	52	2.07	4.68	93	3.71	4.19
C72 / Nervous System, Other		0	0.00	0.00	4	0.16	0.36	4	0.16	0.18
C73 / Thyroid Gland		72	2.87	6.49	22	0.88	1.98	94	3.75	4.24
C74 / Adrenal gland		3	0.12	0.27	0	0.00	0.00	3	0.12	0.14
C75 / Endocrine Gland, Other		0	0.00	0.00	1	0.04	0.09	1	0.04	0.05
C76 / Unspecified Site		6	0.24	0.54	6	0.24	0.54	12	0.48	0.54
C80 / Unknown Primary Site		46	1.83	4.15	39	1.56	3.51	85	3.39	3.83
C77/ Lymph nodes	Hodgkin Lymphoma	16	0.64	1.44	29	1.16	2.61	45	1.79	2.03
	Non-Hodgkin Lymphoma	18	0.72	1.62	26	1.04	2.34	44	1.75	1.98
Total		1,361	54.27	122.72	1,147	45.73	103.32	2,508	100.00	113.01

Baghdad
Populations Number : 8340711
Cancer Cases Number :9331
Incidence Rate: 111.87/100,000 Baghdad Populations



3.4.3. Baghdad governorate

Table No.; (26) Distribution of the top ten cancers in Baghdad, Iraq, 2019

Top Ten Total		No.	%
1	Breast	2,205	23.63
2	Brain & Other CNS	664	7.12
3	Colorectal	609	6.53
4	Bronchus & Lung	582	6.24
5	Thyroid Gland	532	5.70
6	Leukemia	444	4.76
7	Urinary Bladder	385	4.13
8	Non-Hodgkin Lymphoma	340	3.64
9	Prostate	305	3.27
10	Skin, other	283	3.03
Total Top Ten		6,349	68.04
Total other Site		2,982	31.96
Total		9,331	100.00%

Figure No.; (20) Incidence rate of the top ten cancers in Baghdad /100,000 Baghdad populations, Iraq, 2019

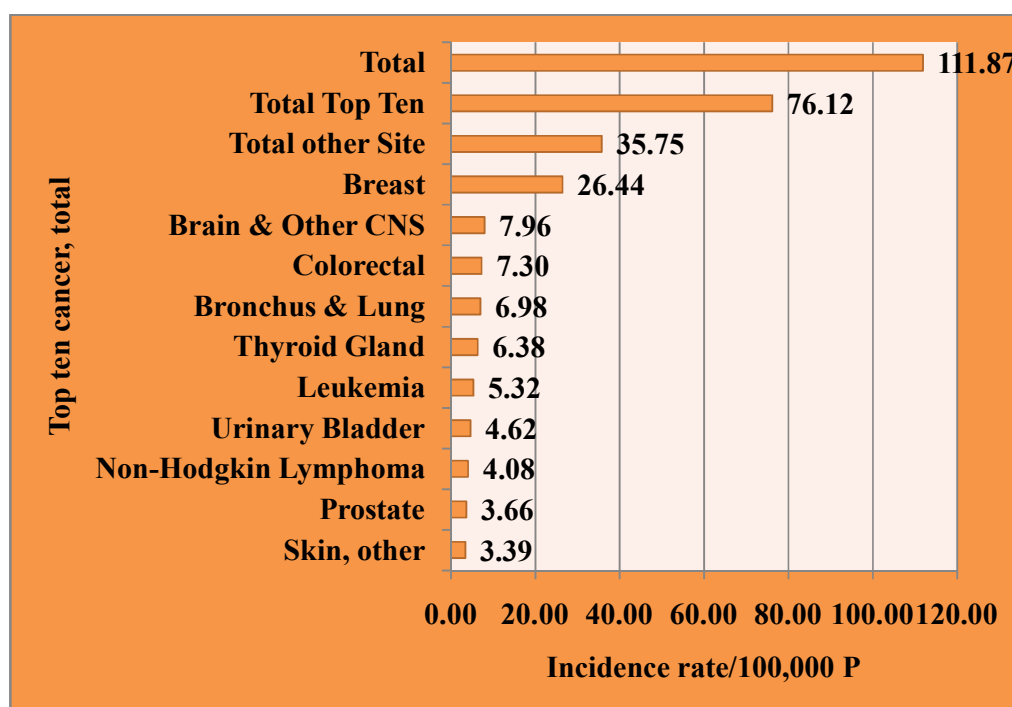


Table No.; (27) Distribution of the top ten cancers in males, Baghdad, Iraq, 2019

Top Ten Male		No.	%
1	Bronchus & Lung	413	11.09
2	Colorectal	341	9.16
3	Brain & Other CNS	305	8.19
4	Prostate	305	8.19
5	Urinary Bladder	302	8.11
6	Leukemia	232	6.23
7	Non-Hodgkin Lymphoma	182	4.89
8	Skin, other	169	4.54
9	Kidney	149	4.00
10	Stomach	145	3.89
Total Top Ten		2,543	68.31
Total other Site		1,180	31.69
Total		3,723	100.00%

Figure No.; (21) Incidence rate of the top ten cancers in males /100,000 Male Populations, Baghdad, Iraq, 2019

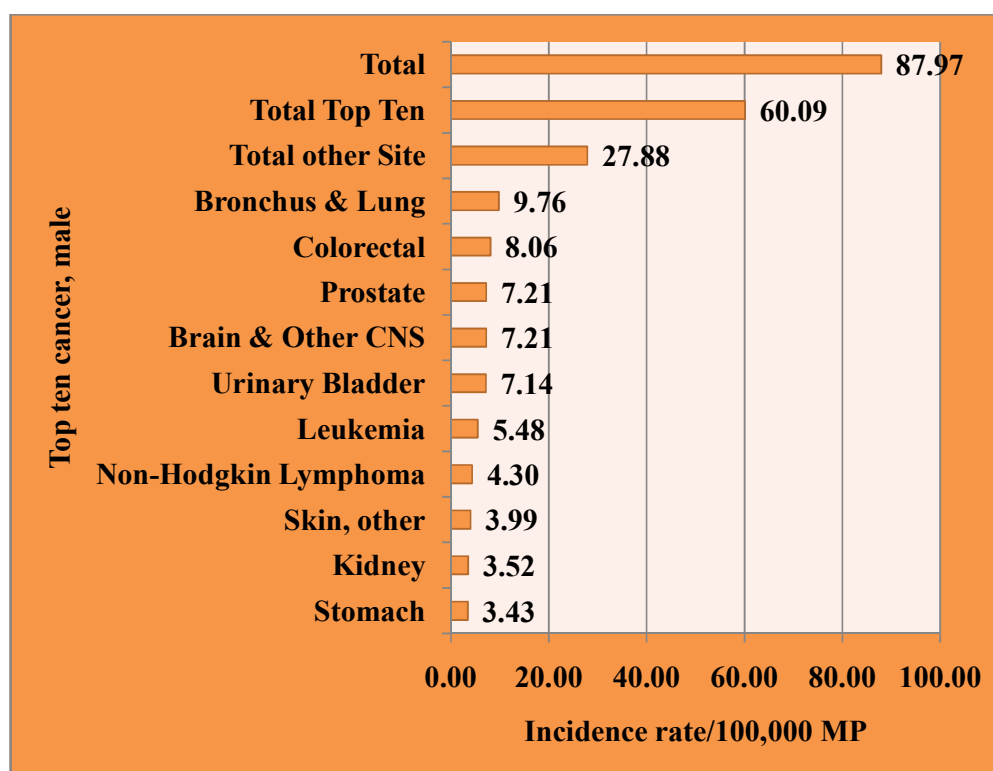
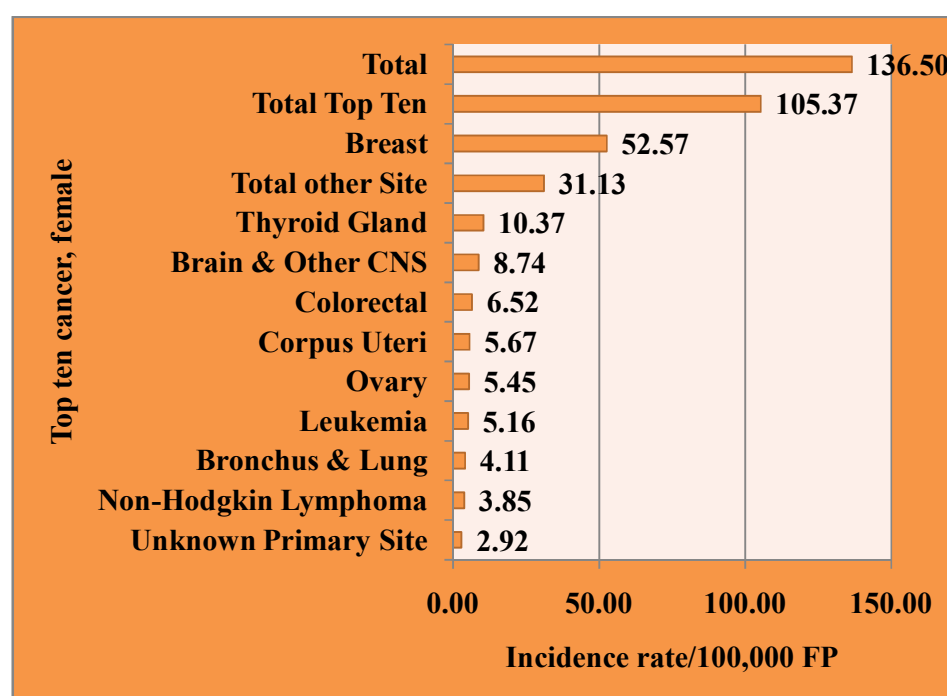


Table No.; (28) Distribution of the top ten cancers in females, Baghdad, Iraq, 2019

Top Ten Female		No.	%
1	Breast	2,160	38.52
2	Thyroid Gland	426	7.60
3	Brain & Other CNS	359	6.40
4	Colorectal	268	4.78
5	Corpus Uteri	233	4.15
6	Ovary	224	3.99
7	Leukemia	212	3.78
8	Bronchus & Lung	169	3.01
9	Non-Hodgkin Lymphoma	158	2.82
10	Unknown Primary Site	120	2.14
Total Top Ten		4,329	77.19
Total other Site		1,279	22.81
Total		5,608	100.00%

Figure No.; (22) Incidence rate of the top ten cancers in females / 100,000 female populations, Baghdad, Iraq, 2019



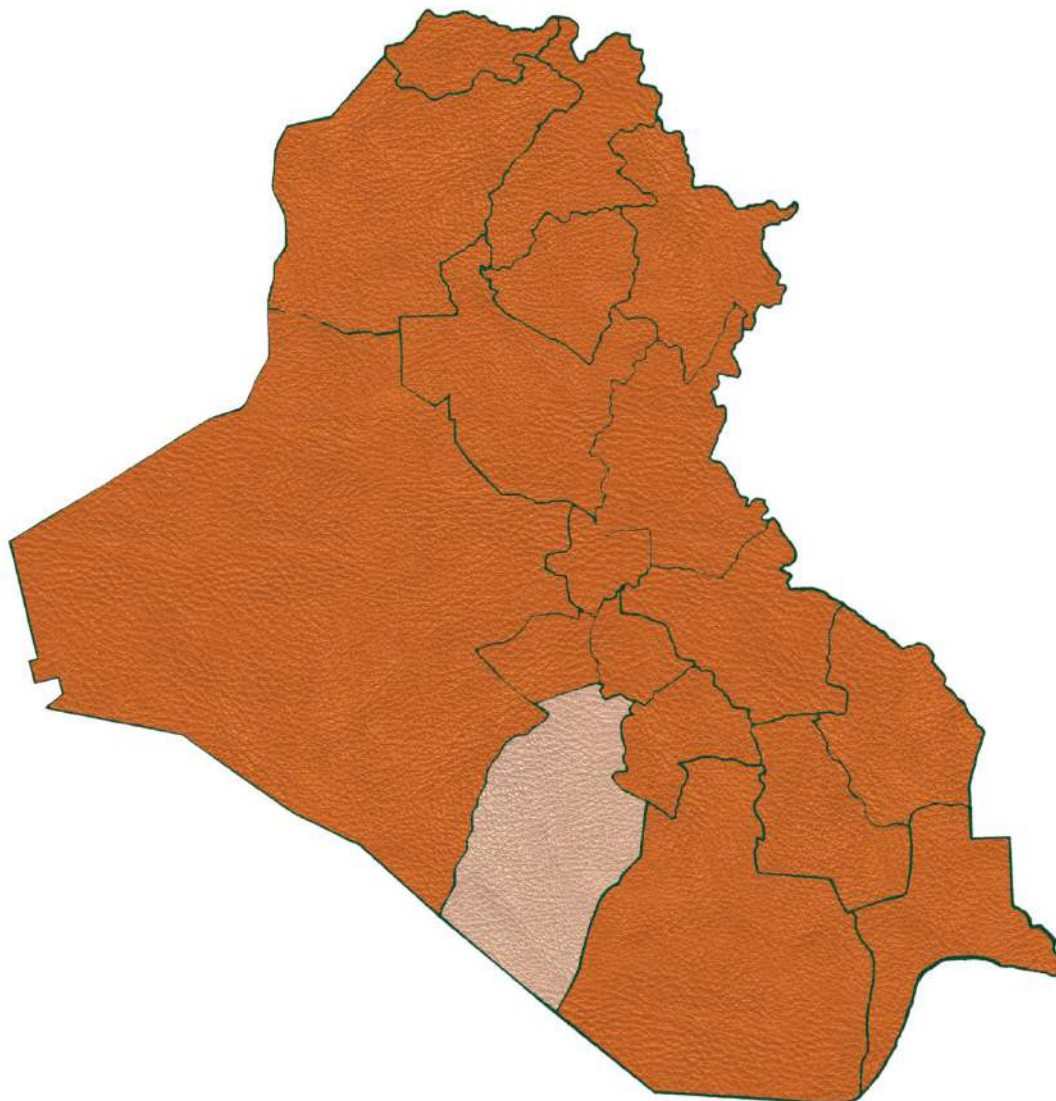
**Table No.; (29) Distribution and the incidence rate of cancer /100,000 populations
by ICD-O, site, and gender in Baghdad, Iraq, 2019**

ICD-O code / Site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip	4	0.04	0.10	6	0.06	0.14	10	0.11	0.12
C01 / Tongue, Base	6	0.06	0.15	7	0.08	0.17	13	0.14	0.16
C02 / Tongue, Other	16	0.17	0.39	16	0.17	0.38	32	0.34	0.38
C03 / Gum	2	0.02	0.05	2	0.02	0.05	4	0.04	0.05
C04 / Mouth - Floor	1	0.01	0.02	1	0.01	0.02	2	0.02	0.02
C05 / Mouth - Palate	2	0.02	0.05	4	0.04	0.09	6	0.06	0.07
C06 / Mouth - other	2	0.02	0.05	8	0.09	0.19	10	0.11	0.12
C07 / Parotid Gland	10	0.11	0.24	8	0.09	0.19	18	0.19	0.22
C08 / Mouth Glands	4	0.04	0.10	7	0.08	0.17	11	0.12	0.13
C09 / Tonsil	0	0.00	0.00	4	0.04	0.09	4	0.04	0.05
C10 / Oropharynx	3	0.03	0.07	1	0.01	0.02	4	0.04	0.05
C11 / Nasopharynx	14	0.15	0.34	30	0.32	0.71	44	0.47	0.53
C12 / Pyriform	1	0.01	0.02	1	0.01	0.02	2	0.02	0.02
C13 / Hypopharynx	4	0.04	0.10	2	0.02	0.05	6	0.06	0.07
C14 / Pharynx	4	0.04	0.10	4	0.04	0.09	8	0.09	0.10
C15 / Oesophagus	13	0.14	0.32	22	0.24	0.52	35	0.38	0.42
C16 / Stomach	114	1.22	2.77	145	1.55	3.43	259	2.78	3.11
C17 / Small intestine	11	0.12	0.27	17	0.18	0.40	28	0.30	0.34
C18 / Colon	183	1.96	4.45	220	2.36	5.20	403	4.32	4.83
C19 / Recto sigmoid Junction	8	0.09	0.19	17	0.18	0.40	25	0.27	0.30
C20 / Rectum	77	0.83	1.87	104	1.11	2.46	181	1.94	2.17
C21 / Anus & Anal Canal	11	0.12	0.27	13	0.14	0.31	24	0.26	0.29
C22 / Liver & Bile Ducts	61	0.65	1.48	125	1.34	2.95	186	1.99	2.23
C23 / Gallbladder	25	0.27	0.61	15	0.16	0.35	40	0.43	0.48
C24 / Biliary Tract , other	20	0.21	0.49	27	0.29	0.64	47	0.50	0.56
C25 / Pancreas	93	1.00	2.26	120	1.29	2.84	213	2.28	2.55
C26 / Other Digestive Organs	8	0.09	0.19	6	0.06	0.14	14	0.15	0.17
C30 / Nasal Cavity	1	0.01	0.02	5	0.05	0.12	6	0.06	0.07
C31 / Accessory Sinus	2	0.02	0.05	9	0.10	0.21	11	0.12	0.13
C32 / Larynx	15	0.16	0.37	85	0.91	2.01	100	1.07	1.20
C33 / Trachea	1	0.01	0.02	3	0.03	0.07	4	0.04	0.05
C34 / Bronchus & Lung	169	1.81	4.11	413	4.43	9.76	582	6.24	6.98
C37 / Thymus	5	0.05	0.12	11	0.12	0.26	16	0.17	0.19
C38 / Heart, Mediastinum, Pleura	8	0.09	0.19	13	0.14	0.31	21	0.23	0.25

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C40 / Bone & Cartilage, Limbs		23	0.25	0.56	24	0.26	0.57	47	0.50	0.56
C41 / Bones & Cartilage, other		29	0.31	0.71	27	0.29	0.64	56	0.60	0.67
C42/ Reticulo Endothelial & Hematopoietic System	Chronic Myelo proliferative Disorders	7	0.08	0.17	8	0.09	0.19	15	0.16	0.18
	Immuno proliferative Diseases	0	0.00	0.00	1	0.01	0.02	1	0.01	0.01
	Leukemia	212	2.27	5.16	232	2.49	5.48	444	4.76	5.32
	Myelo Dysplastic Syndromes	5	0.05	0.12	7	0.08	0.17	12	0.13	0.14
	Plasma Cell Tumor	35	0.38	0.85	40	0.43	0.95	75	0.80	0.90
Blood		1	0.01	0.02	0	0.00	0.00	1	0.01	0.01
C44 / Skin, other		114	1.22	2.77	169	1.81	3.99	283	3.03	3.39
C47 /Nerves System		6	0.06	0.15	6	0.06	0.14	12	0.13	0.14
C48 / Peritoneum		8	0.09	0.19	4	0.04	0.09	12	0.13	0.14
C49 / soft tissues		61	0.65	1.48	62	0.66	1.46	123	1.32	1.47
C50 / Breast		2,160	23.15	52.57	45	0.48	1.06	2,205	23.63	26.44
C51 / Vulva		16	0.17	0.39	0	0.00	0.00	16	0.17	0.39
C52 / Vagina		6	0.06	0.15	0	0.00	0.00	6	0.06	0.15
C53 / Cervix Uteri		61	0.65	1.48	0	0.00	0.00	61	0.65	1.48
C54 / Corpus Uteri		233	2.50	5.67	0	0.00	0.00	233	2.50	5.67
C55 / Uterus Unspecified		112	1.20	2.73	0	0.00	0.00	112	1.20	2.73
C56 / Ovary		224	2.40	5.45	0	0.00	0.00	224	2.40	5.45
C57 / Female genital, other		4	0.04	0.10	0	0.00	0.00	4	0.04	0.10
C59 / Placenta		26	0.28	0.63	0	0.00	0.00	26	0.28	0.63
C61 / Prostate		0	0.00	0.00	305	3.27	7.21	305	3.27	7.21
C62 / Testis		0	0.00	0.00	50	0.54	1.18	50	0.54	1.18
C63 / Male genital, other		0	0.00	0.00	2	0.02	0.05	2	0.02	0.05
C64 / Kidney		100	1.07	2.43	149	1.60	3.52	249	2.67	2.99
C65 / Pelvis		1	0.01	0.02	2	0.02	0.05	3	0.03	0.04
C66 / Ureter		0	0.00	0.00	2	0.02	0.05	2	0.02	0.02
C67 / Urinary Bladder		83	0.89	2.02	302	3.24	7.14	385	4.13	4.62
C68 / Urinary Organs, other		0	0.00	0.00	1	0.01	0.02	1	0.01	0.01
C69 / Eye & Adnexa		10	0.11	0.24	21	0.23	0.50	31	0.33	0.37

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C70 / Meninges		103	1.10	2.51	29	0.31	0.69	132	1.41	1.58
C71 / Brain		226	2.42	5.50	243	2.60	5.74	469	5.03	5.62
C72 / Nervous System, other		5	0.05	0.12	10	0.11	0.24	15	0.16	0.18
C73 / Thyroid Gland		426	4.57	10.37	106	1.14	2.50	532	5.70	6.38
C74 / Adrenal gland		11	0.12	0.27	7	0.08	0.17	18	0.19	0.22
C75 / Endocrine Gland, Other		26	0.28	0.63	23	0.25	0.54	49	0.53	0.59
C76 / Unspecified Site		27	0.29	0.66	18	0.19	0.43	45	0.48	0.54
C77 / Lymph nodes	Hodgkin Lymphoma	71	0.76	1.73	72	0.77	1.70	143	1.53	1.71
	Non-Hodgkin Lymphoma	158	1.69	3.85	182	1.95	4.30	340	3.64	4.08
C80 / Unknown Primary Site		120	1.29	2.92	103	1.10	2.43	223	2.39	2.67
Total		5,608	60.10	136.50	3,723	39.90	87.97	9,331	100.00	111.87

Al-Najaf
Populations Number : 1510338
Cancer Cases Number : 1637
Incidence Rate: 108.39/100,000 Al-Najaf Populations

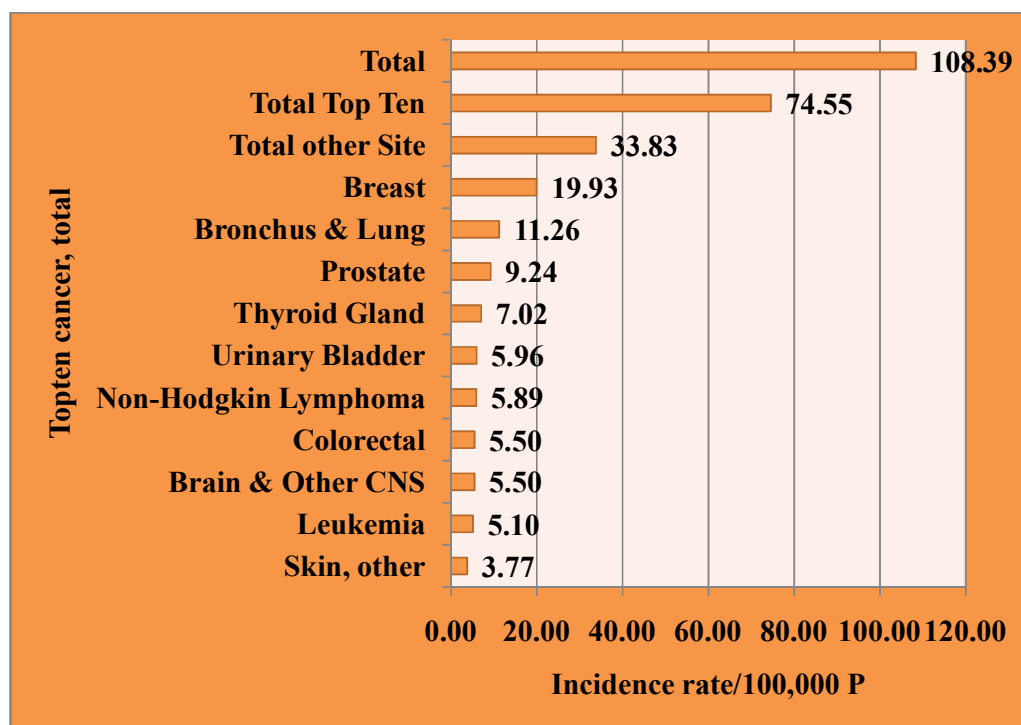


3.4.4. Al-Najaf governorate

Table No.; (30) Distribution of the top ten cancers in Al-Najaf, Iraq, 2019

Top Ten Total	N0.	%
1 Breast	301	18.39
2 Bronchus & Lung	170	10.38
3 Thyroid Gland	106	6.48
4 Urinary Bladder	90	5.50
5 Non-Hodgkin Lymphoma	89	5.44
6 Brain & Other CNS	83	5.07
7 Colorectal	83	5.07
8 Leukemia	77	4.70
9 Prostate	70	4.28
10 Skin, other	57	3.48
Total Top Ten	1,126	68.78
Total other Site	511	31.22
Total	1,637	100.00%

Figure No.; (23) Incidence rate of the top ten cancers in Al-Najaf /100,000 Al-Najaf populations, Iraq, 2019



The prostate incidence rate is calculated from the male populations.

Table No.; (31) Distribution of the top ten cancers in males, Al-Najaf, Iraq, 2019

Top Ten Male		No.	%
1	Bronchus & Lung	109	15.55
2	Prostate	70	9.99
3	Urinary Bladder	70	9.99
4	Non-Hodgkin Lymphoma	50	7.13
5	Colorectal	46	6.56
6	Leukemia	43	6.13
7	Brain & Other CNS	35	4.99
8	Skin, other	34	4.85
9	Liver	27	3.85
10	Pancreas	26	3.71
Total Top Ten		510	72.75
Total other Site		191	27.25
Total		701	100.00%

Figure No.; (24) Incidence rate of the top ten cancers in males / 100,000 male populations, Al-Najaf, Iraq, 2019

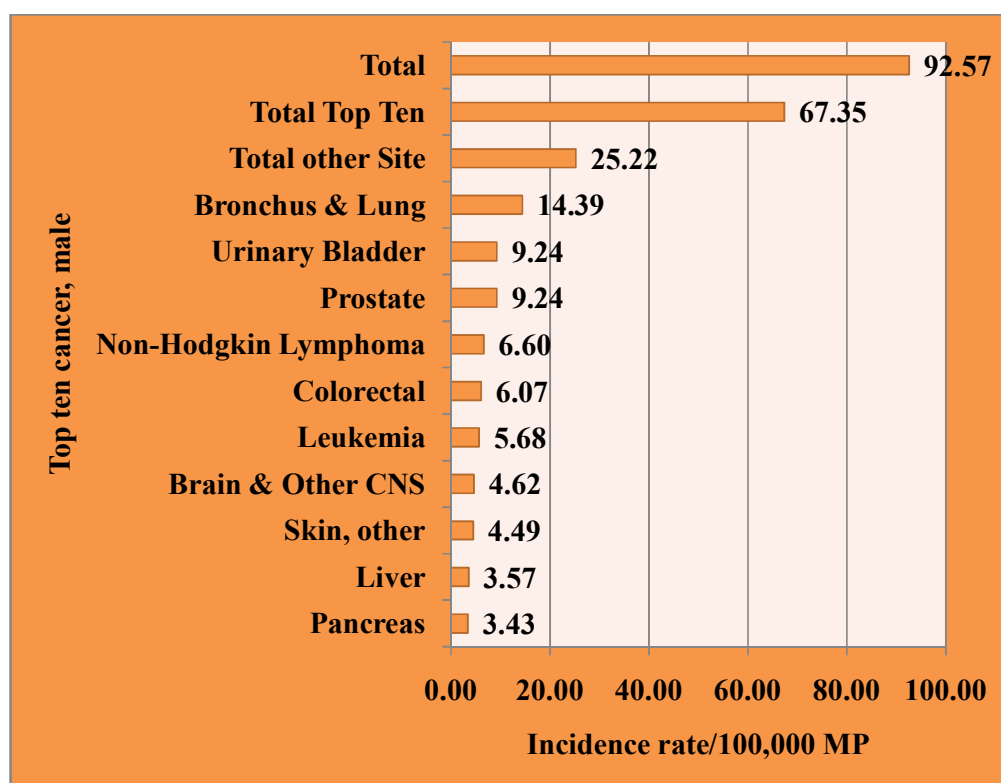
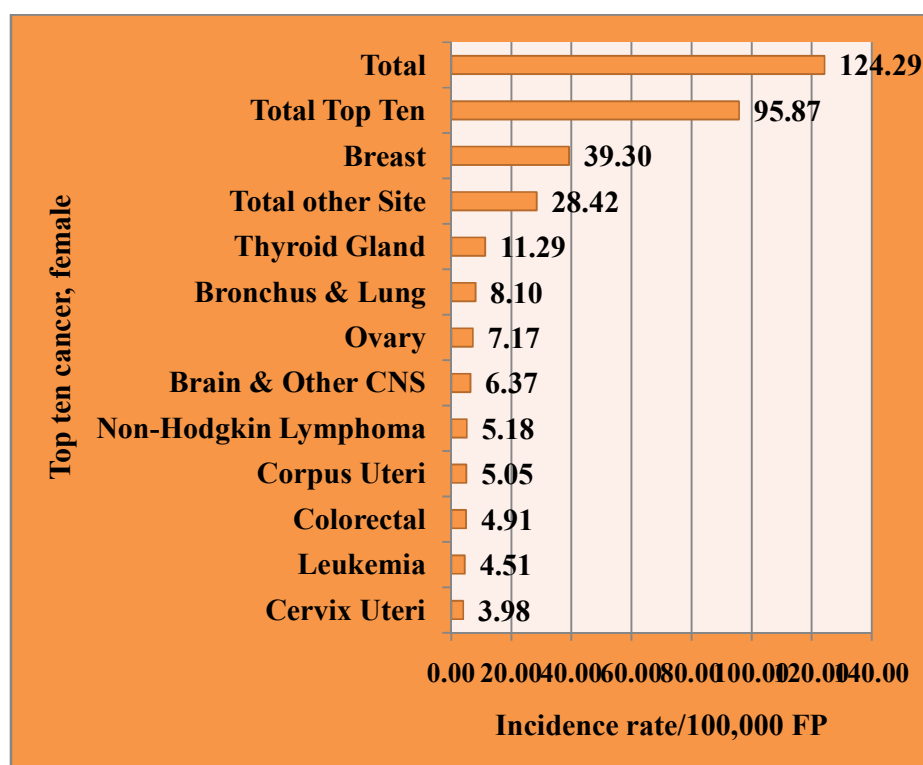


Table No.; (32) Distribution of the top ten cancers in females, Al-Najaf, Iraq, 2019

Top Ten Female		No.	%
1	Breast	296	31.62
2	Thyroid Gland	85	9.08
3	Bronchus & Lung	61	6.52
4	Ovary	54	5.77
5	Brain & Other CNS	48	5.13
6	Non-Hodgkin Lymphoma	39	4.17
7	Corpus Uteri	38	4.06
8	Colorectal	37	3.95
9	Leukemia	34	3.63
10	Cervix Uteri	30	3.21
Total Top Ten		722	77.14
Total other Site		214	22.86
Total		936	100.00%

Figure No.; (25) Incidence rate of the top ten cancers in females / 100,000 female populations, Al-Najaf, Iraq, 2019

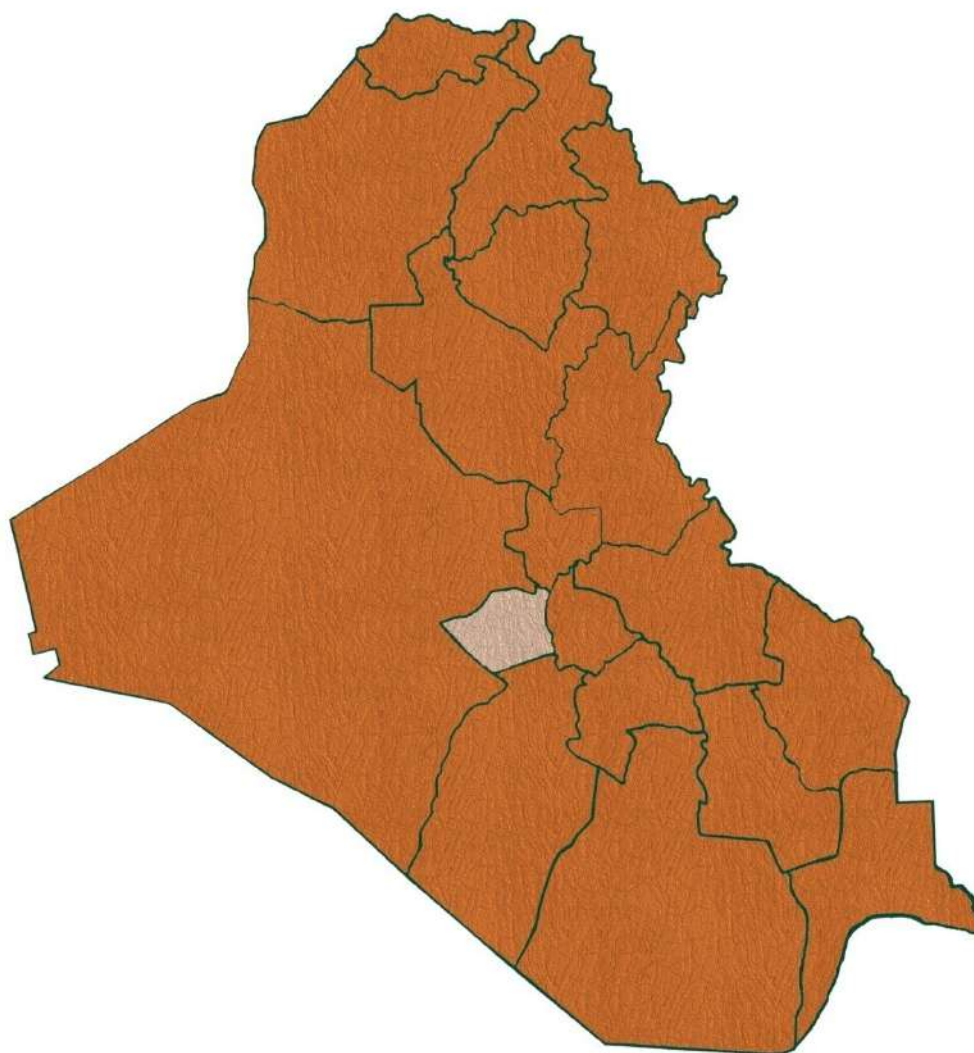


**Table No.; (33) Distribution and the incidence rate of cancer /100,000 populations
by ICD-O, site, and gender in Al-Najaf, Iraq, 2019**

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C02 / Tongue, other		0	0.00	0.00	2	0.12	0.26	2	0.12	0.13
C06 / Mouth - other		1	0.06	0.13	1	0.06	0.13	2	0.12	0.13
C07 / Parotid Gland		0	0.00	0.00	1	0.06	0.13	1	0.06	0.07
C08 / Mouth Glands		1	0.06	0.13	3	0.18	0.40	4	0.24	0.26
C11 / Nasopharynx		3	0.18	0.40	7	0.43	0.92	10	0.61	0.66
C12 / Pyriform		0	0.00	0.00	1	0.06	0.13	1	0.06	0.07
C13 / Hypopharynx		1	0.06	0.13	0	0.00	0.00	1	0.06	0.07
C15 / Esophagus		5	0.31	0.66	3	0.18	0.40	8	0.49	0.53
C16 / Stomach		15	0.92	1.99	22	1.34	2.91	37	2.26	2.45
C17 / Small intestine		4	0.24	0.53	1	0.06	0.13	5	0.31	0.33
C18 / Colon		28	1.71	3.72	25	1.53	3.30	53	3.24	3.51
C19 / Recto sigmoid Junction		1	0.06	0.13	1	0.06	0.13	2	0.12	0.13
C20 / Rectum		8	0.49	1.06	20	1.22	2.64	28	1.71	1.85
C21 / Anus & Anal Canal		1	0.06	0.13	1	0.06	0.13	2	0.12	0.13
C22 / Liver & Bile Ducts		23	1.41	3.05	27	1.65	3.57	50	3.05	3.31
C23 / Gallbladder		2	0.12	0.27	1	0.06	0.13	3	0.18	0.20
C24 / Biliary Tract , other		0	0.00	0.00	1	0.06	0.13	1	0.06	0.07
C25 / Pancreas		23	1.41	3.05	26	1.59	3.43	49	2.99	3.24
C26 / Other Digestive organs		3	0.18	0.40	2	0.12	0.26	5	0.31	0.33
C30 / Nasal Cavity		1	0.06	0.13	2	0.12	0.26	3	0.18	0.20
C32 / Larynx		4	0.24	0.53	20	1.22	2.64	24	1.47	1.59
C34 / Bronchus & Lung		61	3.73	8.10	109	6.66	14.39	170	10.38	11.26
C37 / Thymus		0	0.00	0.00	1	0.06	0.13	1	0.06	0.07
C38 / Heart, Mediastinum, Pleura		2	0.12	0.27	2	0.12	0.26	4	0.24	0.26
C40 / Bone & Cartilage, Limbs		6	0.37	0.80	2	0.12	0.26	8	0.49	0.53
C41 / Bones & Cartilage, Other		7	0.43	0.93	6	0.37	0.79	13	0.79	0.86
C42/ Reticulo Endothelial & Hemato poietic System	Chronic Myelo proliferative Disorders	1	0.06	0.13	0	0.00	0.00	1	0.06	0.07
	Leukemia	34	2.08	4.51	43	2.63	5.68	77	4.70	5.10
	Myelo Dysplastic Syndromes	0	0.00	0.00	2	0.12	0.26	2	0.12	0.13
	Plasma Cell Tumor	8	0.49	1.06	9	0.55	1.19	17	1.04	1.13
C44 / Skin, other		23	1.41	3.05	34	2.08	4.49	57	3.48	3.77

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C47 / Nerves System		2	0.12	0.27	0	0.00	0.00	2	0.12	0.13
C48 / Peritoneum		0	0.00	0.00	1	0.06	0.13	1	0.06	0.07
C49 / Soft tissues		10	0.61	1.33	18	1.10	2.38	28	1.71	1.85
C50 / Breast		296	18.08	39.30	5	0.31	0.66	301	18.39	19.93
C51 / Vulva		1	0.06	0.13	0	0.00	0.00	1	0.06	0.13
C52 / Vagina		3	0.18	0.40	0	0.00	0.00	3	0.18	0.40
C53 / Cervix Uteri		30	1.83	3.98	0	0.00	0.00	30	1.83	3.98
C54 / Corpus Uteri		38	2.32	5.05	0	0.00	0.00	38	2.32	5.05
C55 / Uterus Unspecified		7	0.43	0.93	0	0.00	0.00	7	0.43	0.93
C56 / Ovary		54	3.30	7.17	0	0.00	0.00	54	3.30	7.17
C57 / Female genital, other		1	0.06	0.13	0	0.00	0.00	1	0.06	0.13
C61 / Prostate		0	0.00	0.00	70	4.28	9.24	70	4.28	9.24
C62 / Testis		0	0.00	0.00	9	0.55	1.19	9	0.55	1.19
C64 / Kidney		17	1.04	2.26	21	1.28	2.77	38	2.32	2.52
C65 / Pelvis		0	0.00	0.00	1	0.06	0.13	1	0.06	0.07
C67 / Urinary Bladder		20	1.22	2.66	70	4.28	9.24	90	5.50	5.96
C68 / Urinary organs, other		0	0.00	0.00	2	0.12	0.26	2	0.12	0.13
C69 / Eye & Adnexa		1	0.06	0.13	2	0.12	0.26	3	0.18	0.20
C70 / Meninges		9	0.55	1.20	1	0.06	0.13	10	0.61	0.66
C71 / Brain		34	2.08	4.51	29	1.77	3.83	63	3.85	4.17
C72 / Nervous System, other		3	0.18	0.40	2	0.12	0.26	5	0.31	0.33
C73 / Thyroid Gland		85	5.19	11.29	21	1.28	2.77	106	6.48	7.02
C74 / Adrenal gland		0	0.00	0.00	1	0.06	0.13	1	0.06	0.07
C75 / Endocrine Gland, other		2	0.12	0.27	3	0.18	0.40	5	0.31	0.33
C76 / Unspecified Site		3	0.18	0.40	0	0.00	0.00	3	0.18	0.20
C77 / Lymph nodes	Hodgkin Lymphoma	7	0.43	0.93	18	1.10	2.38	25	1.53	1.66
	Non-Hodgkin Lymphoma	39	2.38	5.18	50	3.05	6.60	89	5.44	5.89
C80 / Unknown Primary Site		8	0.49	1.06	2	0.12	0.26	10	0.61	0.66
Total		936	57.18	124.29	701	42.82	92.57	1,637	100.00	108.39

Karbala
Populations Number : 1250806
Cancer Cases Number :1291
Incidence Rate: 103.21/100,000 KarbalaPopulations



3.4.5. Karbala governorate

Table No.; (34) Distribution of the top ten cancers in Karbala, Iraq, 2019

Top Ten Total		No.	%
1	Breast	248	19.21
2	Bronchus & Lung	115	8.91
3	Leukemia	90	6.97
4	Brain & Other CNS	88	6.82
5	Colorectal	86	6.66
6	Urinary Bladder	76	5.89
7	Non-Hodgkin Lymphoma	65	5.03
8	Thyroid Gland	63	4.88
9	Pancreas	40	3.10
10	Skin, other	40	3.10
Total Top Ten		911	70.57
Total other Site		380	29.43
Total		1,291	100.00%

Figure No.; (26) Incidence rate of the top ten cancers in Karbala /100,000 Karbala populations, Iraq, 2019

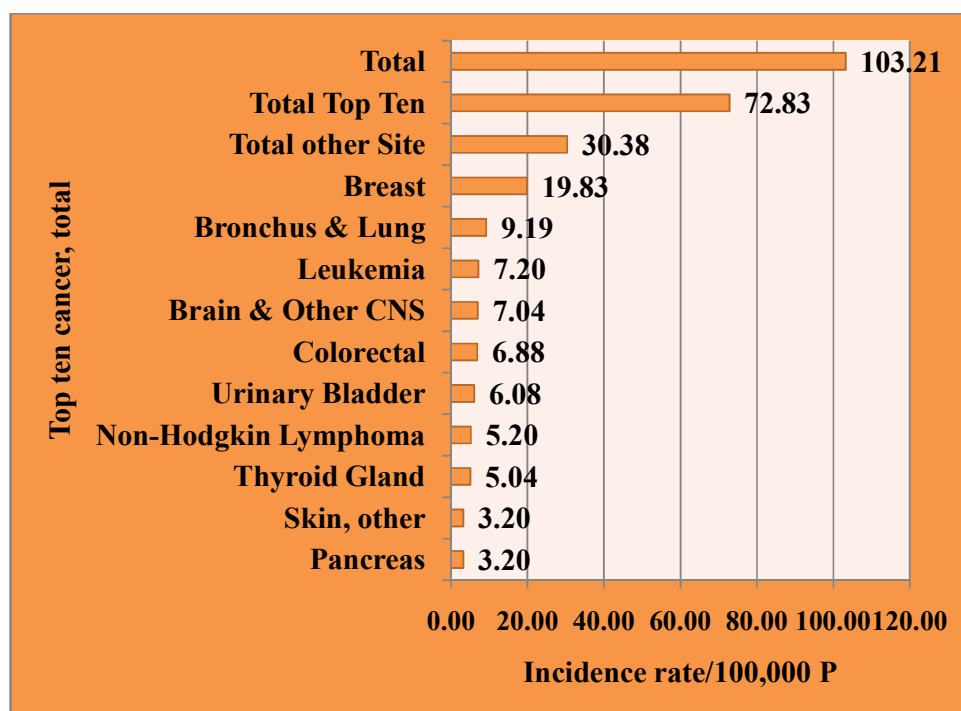


Table No.; (35) Distribution of the top ten cancers in males, Karbala, Iraq, 2019

Top Ten Male		No.	%
1	Bronchus & Lung	68	12.52
2	Urinary Bladder	57	10.50
3	Colorectal	50	9.21
4	Leukemia	48	8.84
5	Non-Hodgkin Lymphoma	36	6.63
6	Brain & Other CNS	35	6.45
7	Prostate	32	5.89
8	Pancreas	26	4.79
9	Hodgkin Lymphomas	21	3.87
10	Skin, other	18	3.31
Total Top Ten		391	72.01
Total other Site		152	27.99
Total		543	100.00%

Figure No.; (27) incidence rate of the top ten cancers in males / 100,000 male populations, Karbala, Iraq, 2019

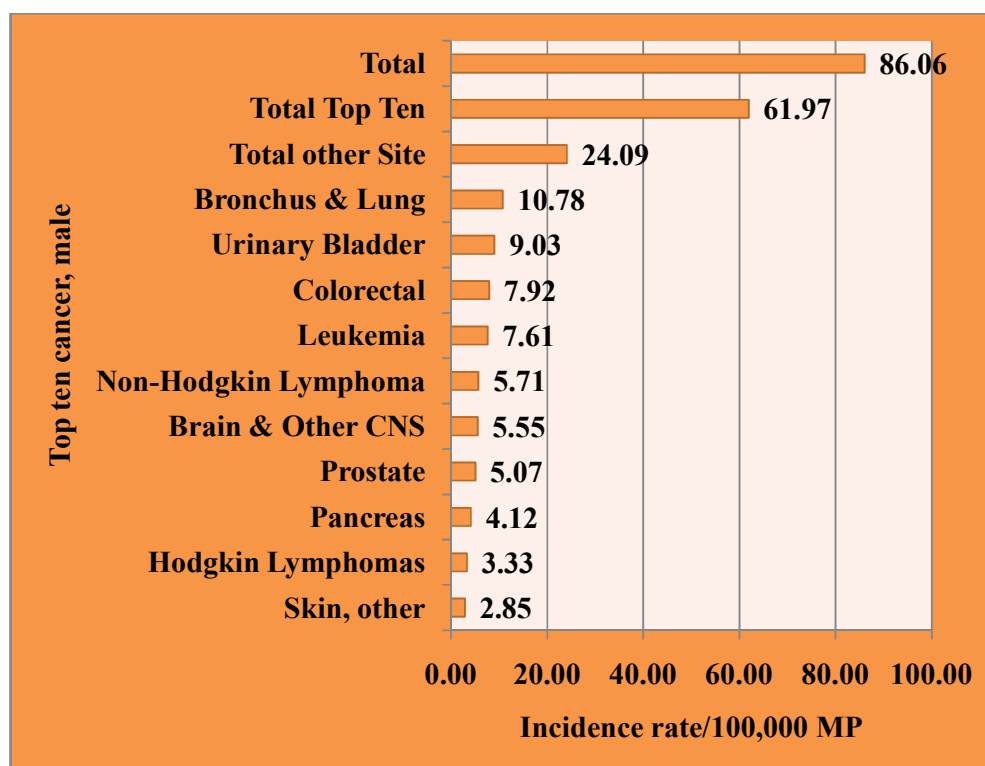
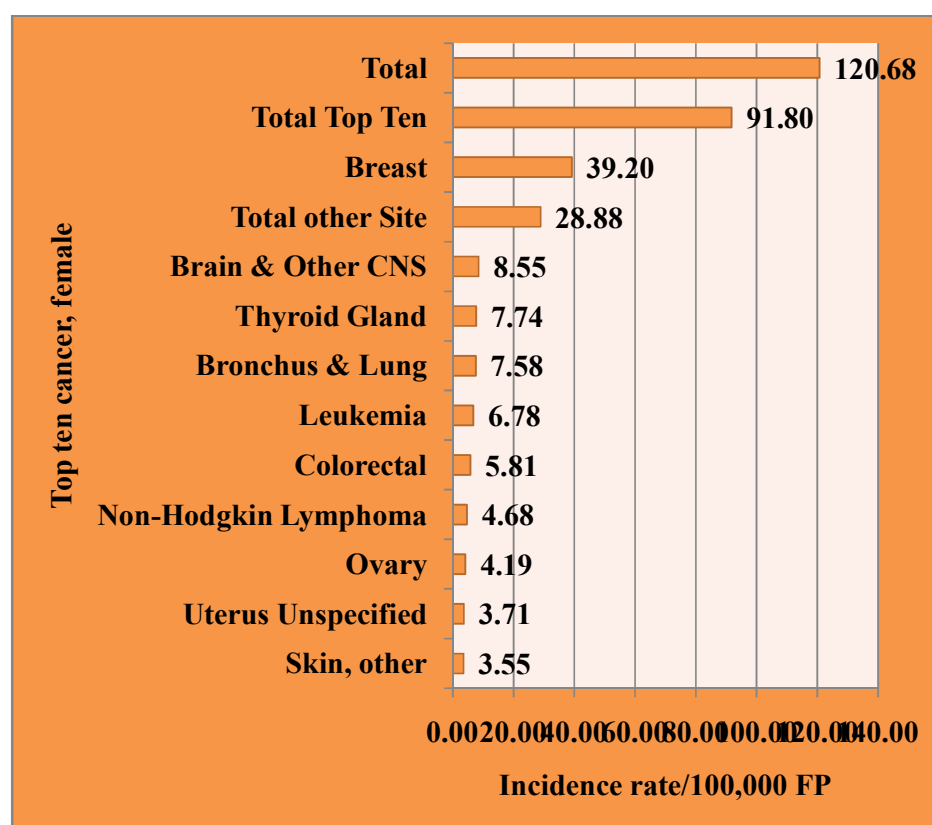


Table No.; (36) Distribution of the top ten cancers in females, Karbala, Iraq, 2019

Top Ten		No.	%
1	Breast	243	32.49
2	Brain & Other CNS	53	7.09
3	Thyroid Gland	48	6.42
4	Bronchus & Lung	47	6.28
5	Leukemia	42	5.61
6	Colorectal	36	4.81
7	Non-Hodgkin Lymphoma	29	3.88
8	Ovary	26	3.48
9	Uterus Unspecified	23	3.07
10	Skin, other	22	2.94
Total Top Ten		569	76.07
Total other Site		179	23.93
Total		748	100.00%

Figure No.; (28) Incidence rate of the top ten cancers in females / 100,000 female populations, Karbala, Iraq, 2019

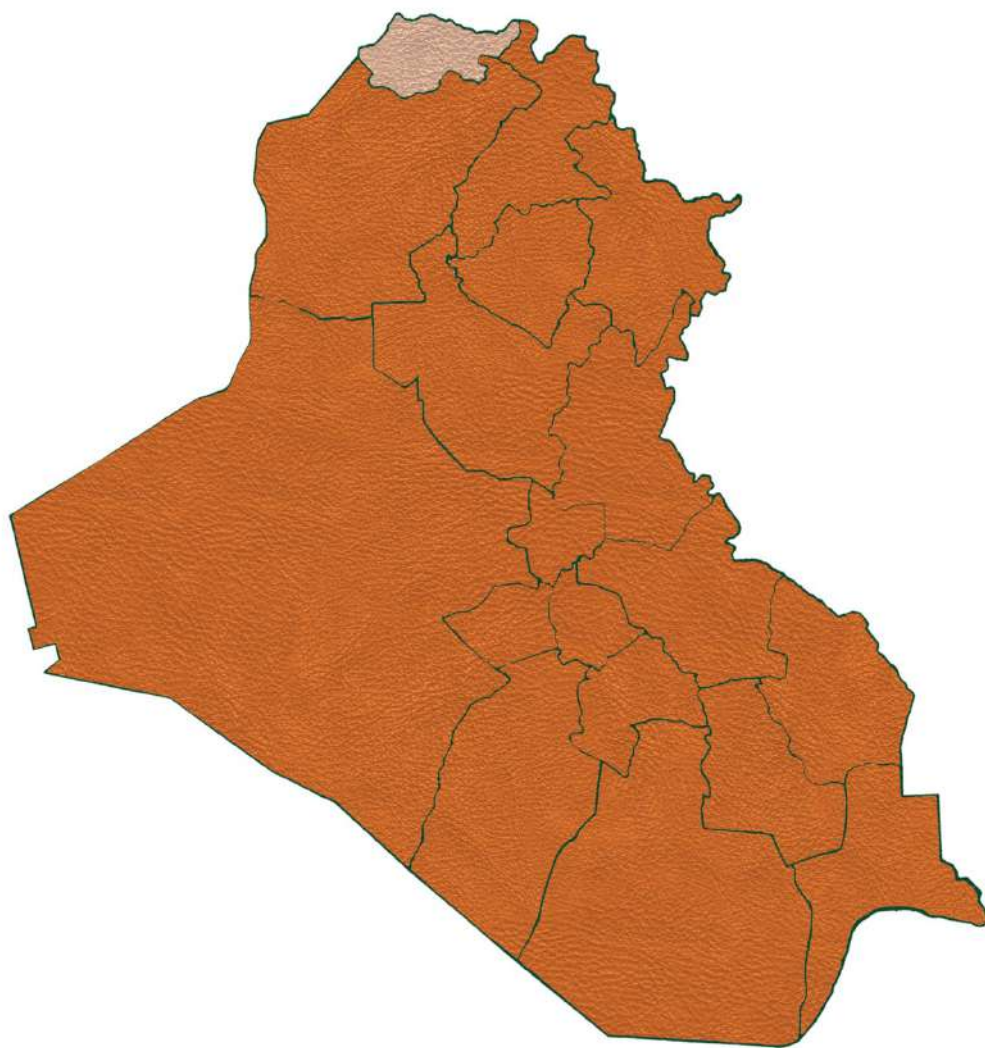


**Table No.; (37) Distribution and the incidence rate of cancer /100,000 populations
by ICD-O, site, and gender in Karbala, Iraq, 2019**

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip		0	0.00	0.00	2	0.15	0.32	2	0.15	0.16
C02 / Tongue, Other		2	0.15	0.32	4	0.31	0.63	6	0.46	0.48
C05 / Mouth - Palate		1	0.08	0.16	1	0.08	0.16	2	0.15	0.16
C06 / Mouth - Other		1	0.08	0.16	1	0.08	0.16	2	0.15	0.16
C07 / Parotid Gland		2	0.15	0.32	1	0.08	0.16	3	0.23	0.24
C11 / Nasopharynx		1	0.08	0.16	6	0.46	0.95	7	0.54	0.56
C14 / Pharynx		1	0.08	0.16	0	0.00	0.00	1	0.08	0.08
C15 / Esophagus		6	0.46	0.97	5	0.39	0.79	11	0.85	0.88
C16 / Stomach		14	1.08	2.26	14	1.08	2.22	28	2.17	2.24
C17 / Small intestine		5	0.39	0.81	6	0.46	0.95	11	0.85	0.88
C18 / Colon		30	2.32	4.84	36	2.79	5.71	66	5.11	5.28
C20 / Rectum		6	0.46	0.97	14	1.08	2.22	20	1.55	1.60
C21 / Anus & Anal Canal		0	0.00	0.00	1	0.08	0.16	1	0.08	0.08
C22 / Liver & Bile Ducts		17	1.32	2.74	14	1.08	2.22	31	2.40	2.48
C23 / Gallbladder		6	0.46	0.97	11	0.85	1.74	17	1.32	1.36
C24 / Biliary Tract , other		1	0.08	0.16	0	0.00	0.00	1	0.08	0.08
C25 / Pancreas		14	1.08	2.26	26	2.01	4.12	40	3.10	3.20
C32 / Larynx		8	0.62	1.29	9	0.70	1.43	17	1.32	1.36
C34 / Bronchus & Lung		47	3.64	7.58	68	5.27	10.78	115	8.91	9.19
C38 / Heart, Mediastinum, Pleura		0	0.00	0.00	2	0.15	0.32	2	0.15	0.16
C40 / Bone & Cartilage, Limbs		2	0.15	0.32	3	0.23	0.48	5	0.39	0.40
C41 / Bones & Cartilage, Other		3	0.23	0.48	2	0.15	0.32	5	0.39	0.40
C42/ Reticulo Endothelial & Hematopoietic System	Chronic Myelo proliferative Disorders	0	0.00	0.00	1	0.08	0.16	1	0.08	0.08
	Leukemia	42	3.25	6.78	48	3.72	7.61	90	6.97	7.20
	Myelo Dysplastic Syndromes	0	0.00	0.00	1	0.08	0.16	1	0.08	0.08
	Plasma Cell Tumor	8	0.62	1.29	8	0.62	1.27	16	1.24	1.28
C44 / Skin, other		22	1.70	3.55	18	1.39	2.85	40	3.10	3.20
C48 / Peritoneum		2	0.15	0.32	1	0.08	0.16	3	0.23	0.24
C49 / Soft tissues		6	0.46	0.97	8	0.62	1.27	14	1.08	1.12
C50 / Breast		243	18.82	39.20	5	0.39	0.79	248	19.21	19.83

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C51 / Vulva		3	0.23	0.48	0	0.00	0.00	3	0.23	0.48
C52 / Vagina		1	0.08	0.16	0	0.00	0.00	1	0.08	0.16
C53 / Cervix Uteri		11	0.85	1.77	0	0.00	0.00	11	0.85	1.77
C54 / Corpus Uteri		3	0.23	0.48	0	0.00	0.00	3	0.23	0.48
C55 / Uterus Unspecified		23	1.78	3.71	0	0.00	0.00	23	1.78	3.71
C56 / Ovary		26	2.01	4.19	0	0.00	0.00	26	2.01	4.19
C57 / Female genital, other		1	0.08	0.16	0	0.00	0.00	1	0.08	0.16
C59 / Placenta		4	0.31	0.65	0	0.00	0.00	4	0.31	0.65
C61 / Prostate		0	0.00	0.00	32	2.48	5.07	32	2.48	5.07
C62 / Testis		0	0.00	0.00	5	0.39	0.79	5	0.39	0.79
C64 / Kidney		13	1.01	2.10	16	1.24	2.54	29	2.25	2.32
C67 / Urinary Bladder		19	1.47	3.07	57	4.42	9.03	76	5.89	6.08
C68 / Urinary organs, other		1	0.08	0.16	1	0.08	0.16	2	0.15	0.16
C69 / Eye & Adnexa		1	0.08	0.16	2	0.15	0.32	3	0.23	0.24
C70 / Meninges		8	0.62	1.29	2	0.15	0.32	10	0.77	0.80
C71 / Brain		38	2.94	6.13	29	2.25	4.60	67	5.19	5.36
C72 / Nervous System, other		3	0.23	0.48	1	0.08	0.16	4	0.31	0.32
C73 / Thyroid Gland		48	3.72	7.74	15	1.16	2.38	63	4.88	5.04
C74 / Adrenal gland		1	0.08	0.16	3	0.23	0.48	4	0.31	0.32
C75 / Endocrine Gland, Other		4	0.31	0.65	3	0.23	0.48	7	0.54	0.56
C76 / Unspecified Site		0	0.00	0.00	1	0.08	0.16	1	0.08	0.08
C77 / Lymph nodes	Hodgkin Lymphoma	15	1.16	2.42	21	1.63	3.33	36	2.79	2.88
	Non-Hodgkin Lymphoma	29	2.25	4.68	36	2.79	5.71	65	5.03	5.20
C80 / Unknown Primary Site		6	0.46	0.97	3	0.23	0.48	9	0.70	0.72
Total		748	57.94	120.68	543	42.06	86.06	1,291	100.00	103.21

Duhok
Populations Number : 1326562
Cancer Cases Number :1205
Incidence Rate: 90.84/100,000 Duhok Populations



3.4.6. Duhok governorate

Table No.; (38) Distribution of the top ten cancers in Duhok, Iraq, 2019

Top Ten Total		No.	%
1	Breast	182	15.10
2	Bronchus & Lung	125	10.37
3	Colorectal	112	9.29
4	Skin, other	99	8.22
5	Leukemia	96	7.97
6	Brain & Other CNS	57	4.73
7	Non-Hodgkin Lymphoma	56	4.65
8	Urinary Bladder	43	3.57
9	Thyroid Gland	40	3.32
10	Stomach	35	2.90
Total Top Ten		845	70.12
Total other Site		360	29.88
Total		1,205	100.00%

Figure No.; (29) Incidence rate of the top ten cancers in Duhok /100,000 Duhok populations, Iraq, 2019

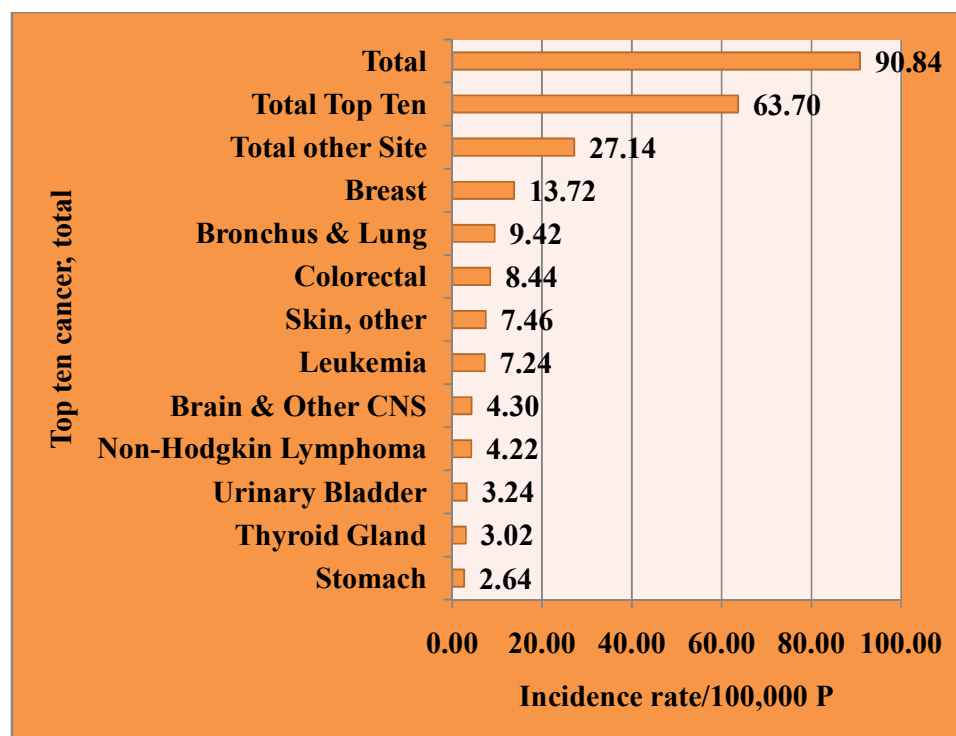


Table No.; (39) Distribution of the top ten cancers in males, Duhok, Iraq, 2019

Top Ten Male		No.	%
1	Bronchus & Lung	108	18.37
2	Colorectal	64	10.88
3	Skin, other	52	8.84
4	Leukemia	50	8.50
5	Urinary Bladder	34	5.78
6	Non-Hodgkin Lymphoma	29	4.93
7	Prostate	29	4.93
8	Brain & Other CNS	26	4.42
9	Pancreas	21	3.57
10	Hodgkin Lymphomas	17	2.89
Total Top Ten		430	73.13
Total other Site		158	26.87
Total		588	100.00%

Figure No.; (30) Incidence rate of the top ten cancers in males / 100,000 male population, Duhok, Iraq, 2019

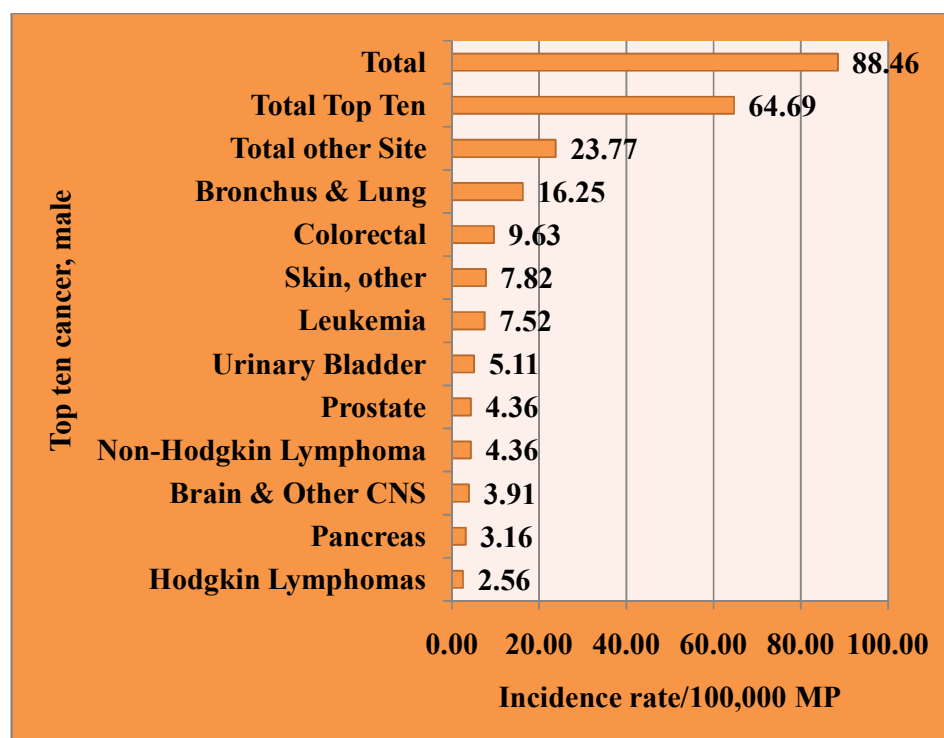
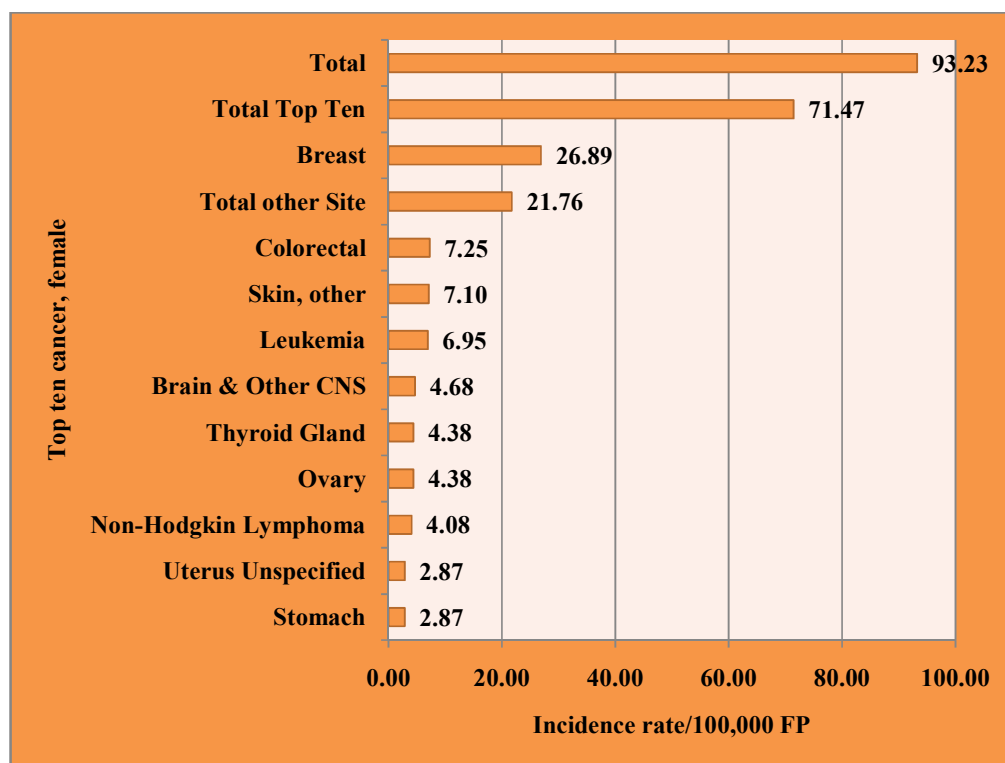


Table No.; (40) Distribution of the top ten cancers in females, Duhok, Iraq, 2019

Top Ten Female		No.	%
1	Breast	178	28.85
2	Colorectal	48	7.78
3	Skin, other	47	7.62
4	Leukemia	46	7.46
5	Brain & Other CNS	31	5.02
6	Ovary	29	4.70
7	Thyroid Gland	29	4.70
8	Non-Hodgkin Lymphoma	27	4.38
9	Stomach	19	3.08
10	Uterus Unspecified	19	3.08
Total Top Ten		473	76.66
Total other Site		144	23.34
Total		617	100.00%

Figure No.; (31) Incidence rate of the top ten cancer in females / 100,000 female populations, Duhok, Iraq, 2019

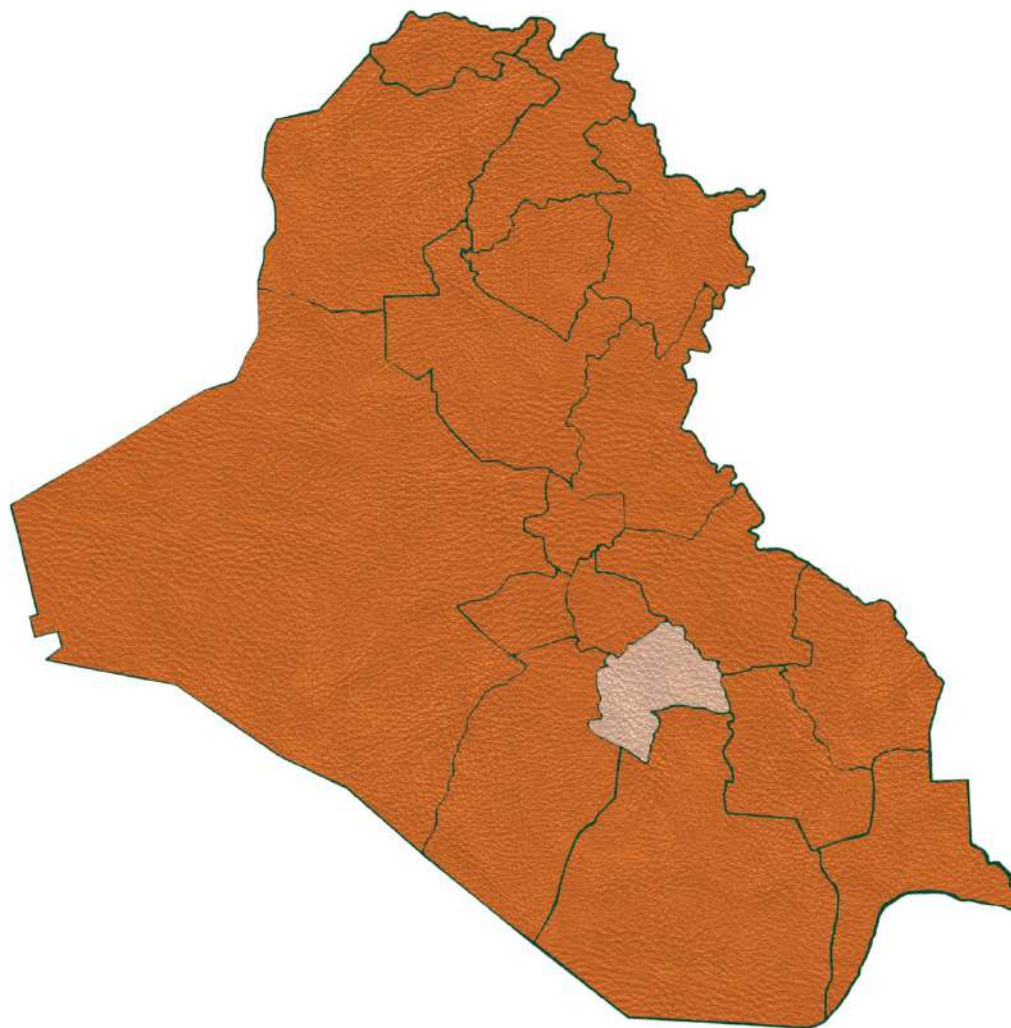


**Table No.; (41) Distribution and the incidence rate of cancer /100,000 populations
by ICD-O, site, and gender in Duhok, Iraq, 2019**

ICD-O code / Site of tumor	Female			Male			Total			
	No.	%	IR	No.	%	IR	No.	%	IR	
C06 / Mouth - other	1	0.08	0.15	0	0.00	0.00	1	0.08	0.08	
C07 / Parotid Gland	1	0.08	0.15	0	0.00	0.00	1	0.08	0.08	
C08 / Mouth Glands	0	0.00	0.00	1	0.08	0.15	1	0.08	0.08	
C11 / Nasopharynx	2	0.17	0.30	0	0.00	0.00	2	0.17	0.15	
C15 / Esophagus	6	0.50	0.91	11	0.91	1.65	17	1.41	1.28	
C16 / Stomach	19	1.58	2.87	16	1.33	2.41	35	2.90	2.64	
C18 / Colon	35	2.90	5.29	36	2.99	5.42	71	5.89	5.35	
C20 / Rectum	13	1.08	1.96	28	2.32	4.21	41	3.40	3.09	
C22 / Liver & Bile Ducts	16	1.33	2.42	14	1.16	2.11	30	2.49	2.26	
C23 / Gallbladder	3	0.25	0.45	2	0.17	0.30	5	0.41	0.38	
C24 / Biliary Tract , other	0	0.00	0.00	2	0.17	0.30	2	0.17	0.15	
C25 / Pancreas	9	0.75	1.36	21	1.74	3.16	30	2.49	2.26	
C26 / Other Digestive organs	1	0.08	0.15	0	0.00	0.00	1	0.08	0.08	
C30 / Nasal Cavity	2	0.17	0.30	3	0.25	0.45	5	0.41	0.38	
C32 / Larynx	2	0.17	0.30	14	1.16	2.11	16	1.33	1.21	
C34 / Bronchus & Lung	17	1.41	2.57	108	8.96	16.25	125	10.37	9.42	
C38 / Heart, Mediastinum, Pleura	4	0.33	0.60	2	0.17	0.30	6	0.50	0.45	
C41 / Bones & Cartilage, other	8	0.66	1.21	12	1.00	1.81	20	1.66	1.51	
C42/ Reticulo Endothelial & Hematopoietic System	Chronic Myelo proliferative Disorders	0	0.00	0.00	4	0.33	0.60	4	0.33	0.30
	Leukemia	46	3.82	6.95	50	4.15	7.52	96	7.97	7.24
	Myelo Dysplastic Syndromes	0	0.00	0.00	1	0.08	0.15	1	0.08	0.08
	Plasma Cell Tumor	3	0.25	0.45	13	1.08	1.96	16	1.33	1.21
C44 / Skin, other	47	3.90	7.10	52	4.32	7.82	99	8.22	7.46	
C49 / Soft tissues	3	0.25	0.45	3	0.25	0.45	6	0.50	0.45	
C50 / Breast	178	14.77	26.89	4	0.33	0.60	182	15.10	13.72	
C51 / Vulva	1	0.08	0.15	0	0.00	0.00	1	0.08	0.15	
C53 / Cervix Uteri	9	0.75	1.36	0	0.00	0.00	9	0.75	1.36	
C54 / Corpus Uteri	1	0.08	0.15	0	0.00	0.00	1	0.08	0.15	
C55 / Uterus Unspecified	19	1.58	2.87	0	0.00	0.00	19	1.58	2.87	
C56 / Ovary	29	2.41	4.38	0	0.00	0.00	29	2.41	4.38	
C59 / Placenta	1	0.08	0.15	0	0.00	0.00	1	0.08	0.15	
C61 / Prostate	0	0.00	0.00	29	2.41	4.36	29	2.41	4.36	
C62 / Testis	0	0.00	0.00	15	1.24	2.26	15	1.24	2.26	
C64 / Kidney	14	1.16	2.12	13	1.08	1.96	27	2.24	2.04	
C65 / Pelvis	0	0.00	0.00	1	0.08	0.15	1	0.08	0.08	
C67 / Urinary Bladder	9	0.75	1.36	34	2.82	5.11	43	3.57	3.24	

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C69 / Eye & Adnexa		1	0.08	0.15	2	0.17	0.30	3	0.25	0.23
C70 / Meninges		2	0.17	0.30	0	0.00	0.00	2	0.17	0.15
C71 / Brain		29	2.41	4.38	26	2.16	3.91	55	4.56	4.15
C73 / Thyroid Gland		29	2.41	4.38	11	0.91	1.65	40	3.32	3.02
C74 / Adrenal gland		1	0.08	0.15	2	0.17	0.30	3	0.25	0.23
C77 / Lymph nodes	Hodgkin Lymphoma	14	1.16	2.12	17	1.41	2.56	31	2.57	2.34
	Non-Hodgkin Lymphoma	27	2.24	4.08	29	2.41	4.36	56	4.65	4.22
C80 / Unknown Primary Site		15	1.24	2.27	12	1.00	1.81	27	2.24	2.04
Total		617	51.20	93.23	588	48.80	88.46	1205	100.00	90.84

Al-Diwanyia
Populations Number : 1325031
Cancer Cases Number :1182
Incidence Rate:89.21/100,000 Al-Diwanyia Populations



3.4.7. Diwanyia governorate

Table No.; (42) Distribution of the top ten cancers in Diwanyia, Iraq, 2019

Top Ten Total		No.	%
1	Breast	178	15.06
2	Bronchus & Lung	138	11.68
3	Brain & Other CNS	87	7.36
4	Thyroid Gland	84	7.11
5	Urinary Bladder	76	6.43
6	Non-Hodgkin Lymphoma	73	6.18
7	Leukemia	72	6.09
8	Colorectal	58	4.91
9	Skin, other	41	3.47
10	Stomach	39	3.30
Total Top Ten		846	71.57
Total other Site		336	28.43
Total		1,182	100.00%

Figure No.; (32) Incidence rate of the top ten cancers in Diwanyia /100,000
Diwanyia populations, Iraq, 2019

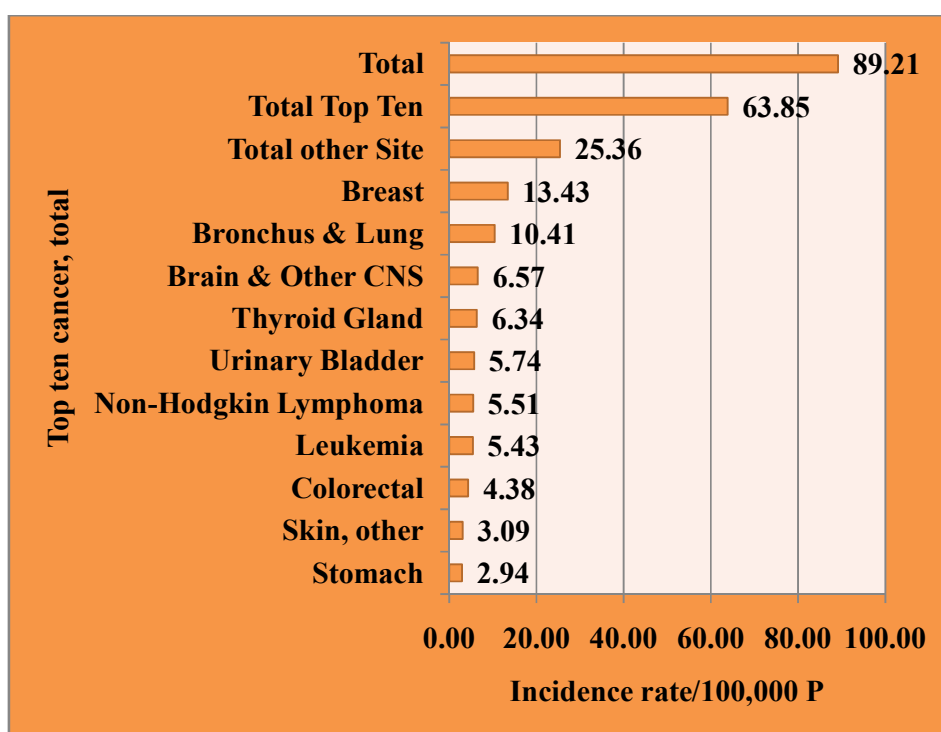


Table No.; (43) Distribution of the top ten cancers in males, Diwanyaia, Iraq, 2019

Top Ten Male		No.	%
1	Bronchus & Lung	87	16.08
2	Urinary Bladder	56	10.35
3	Leukemia	40	7.39
4	Brain & Other CNS	38	7.02
5	Prostate	37	6.84
6	Non-Hodgkin Lymphoma	36	6.65
7	Colorectal	31	5.73
8	Thyroid Gland	27	4.99
9	Liver	20	3.70
10	Stomach	19	3.51
Total Top Ten		391	72.27
Total other Site		150	27.73
Total		541	100.00%

Figure No.; (33) Incidence rate of the top ten cancers in males / 100,000 male populations, Diwanyaia, Iraq, 2019

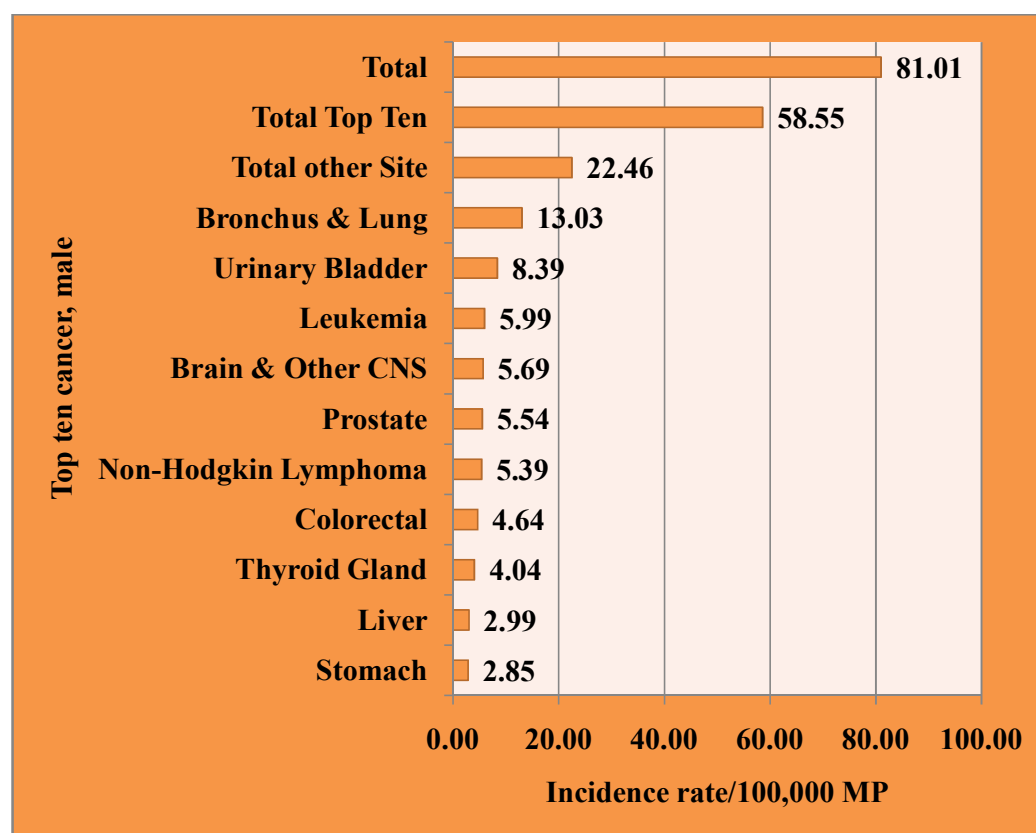
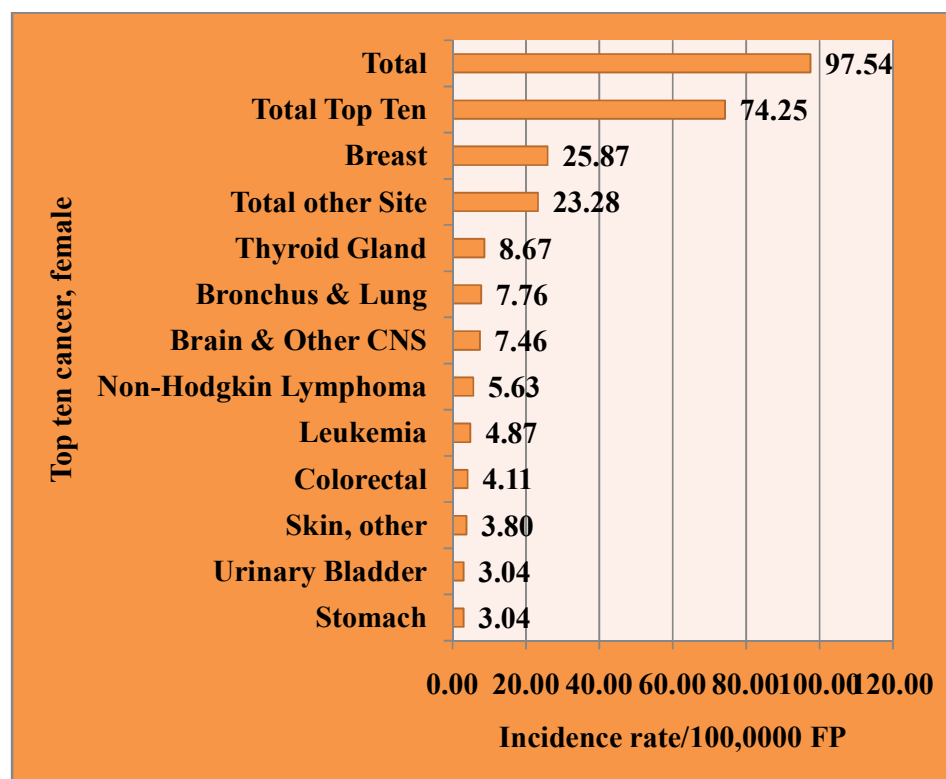


Table No.; (44) Distribution of the top ten cancers in females, Diwanyia, Iraq, 2019

Top Ten Female		No.	%
1	Breast	170	26.52
2	Thyroid Gland	57	8.89
3	Bronchus & Lung	51	7.96
4	Brain & Other CNS	49	7.64
5	Non-Hodgkin Lymphoma	37	5.77
6	Leukemia	32	4.99
7	Colorectal	27	4.21
8	Skin, other	25	3.90
9	Stomach	20	3.12
10	Urinary Bladder	20	3.12
Total Top Ten		488	76.13
Total other Site		153	23.87
Total		641	100.00%

Figure No.; (34) Incidence rate of the top ten cancers in females / 100,000 female populations, Diwanyia, Iraq, 2019

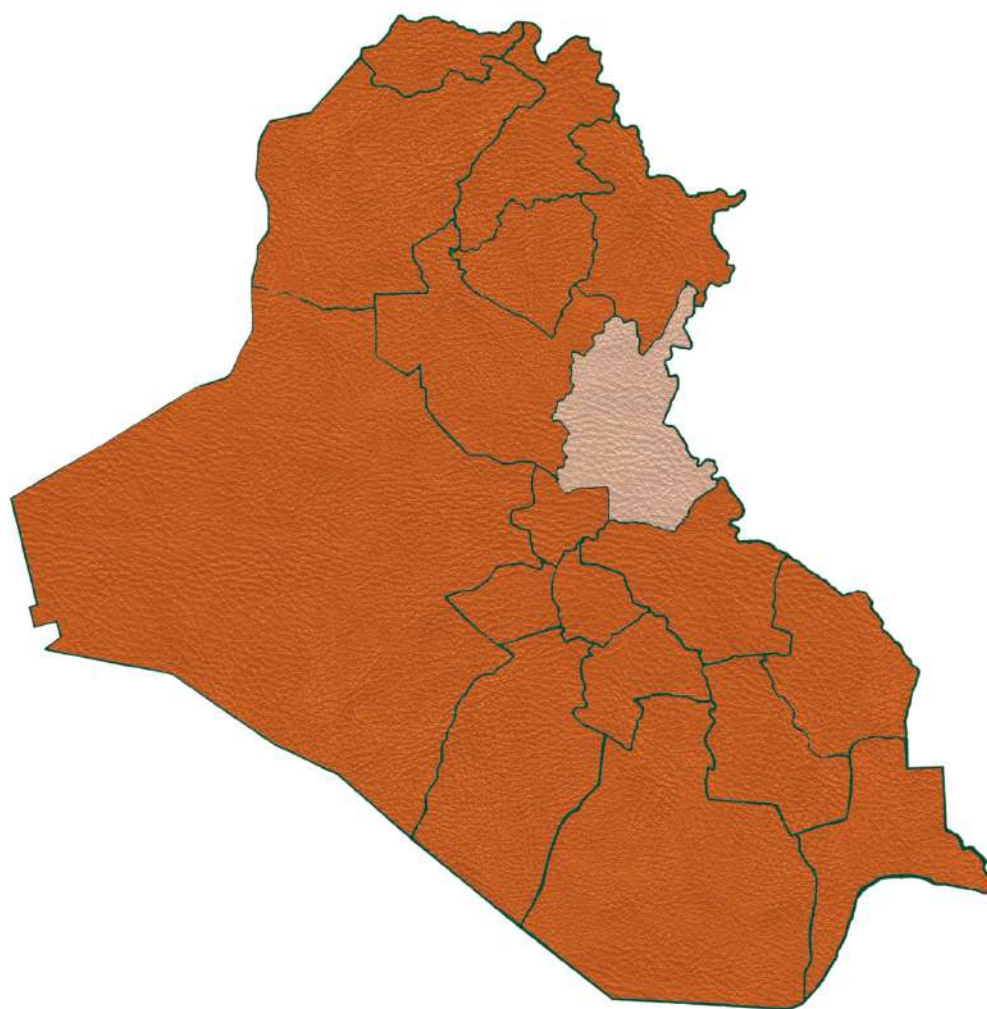


**Table No.; (45) Distribution and the incidence rate of cancer /100,000 populations
by ICD-O, site, and gender in Diwanya, Iraq, 2019**

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C02 / Tongue, other		0	0.00	0.00	5	0.42	0.75	5	0.42	0.38
C04 / Mouth - Floor		0	0.00	0.00	1	0.08	0.15	1	0.08	0.08
C06 / Mouth - other		2	0.17	0.30	0	0.00	0.00	2	0.17	0.15
C07 / Parotid Gland		1	0.08	0.15	1	0.08	0.15	2	0.17	0.15
C08 / Mouth Glands		2	0.17	0.30	0	0.00	0.00	2	0.17	0.15
C11 / Nasopharynx		4	0.34	0.61	4	0.34	0.60	8	0.68	0.60
C13 / Hypopharynx		0	0.00	0.00	1	0.08	0.15	1	0.08	0.08
C15 / Esophagus		2	0.17	0.30	3	0.25	0.45	5	0.42	0.38
C16 / Stomach		20	1.69	3.04	19	1.61	2.85	39	3.30	2.94
C17 / Small intestine		1	0.08	0.15	4	0.34	0.60	5	0.42	0.38
C18 / Colon		18	1.52	2.74	23	1.95	3.44	41	3.47	3.09
C19 / Recto sigmoid Junction		2	0.17	0.30	0	0.00	0.00	2	0.17	0.15
C20 / Rectum		7	0.59	1.07	8	0.68	1.20	15	1.27	1.13
C21 / Anus & Anal Canal		0	0.00	0.00	2	0.17	0.30	2	0.17	0.15
C22 / Liver & Bile Ducts		17	1.44	2.59	20	1.69	2.99	37	3.13	2.79
C23 / Gallbladder		2	0.17	0.30	1	0.08	0.15	3	0.25	0.23
C24 / Biliary Tract , Other		6	0.51	0.91	10	0.85	1.50	16	1.35	1.21
C25 / Pancreas		15	1.27	2.28	8	0.68	1.20	23	1.95	1.74
C26 / Other Digestive Organs		2	0.17	0.30	0	0.00	0.00	2	0.17	0.15
C30 / Nasal Cavity		0	0.00	0.00	1	0.08	0.15	1	0.08	0.08
C32 / Larynx		4	0.34	0.61	9	0.76	1.35	13	1.10	0.98
C34 / Bronchus & Lung		51	4.31	7.76	87	7.36	13.03	138	11.68	10.41
C37 / Thymus		1	0.08	0.15	0	0.00	0.00	1	0.08	0.08
C38 / Heart, Mediastinum, Pleura		4	0.34	0.61	4	0.34	0.60	8	0.68	0.60
C40 / Bone & Cartilage, Limbs		4	0.34	0.61	1	0.08	0.15	5	0.42	0.38
C41 / Bones & Cartilage, other		3	0.25	0.46	6	0.51	0.90	9	0.76	0.68
C42/ Reticulo Endothelia l & Hemato poietic System	Chronic Myelo proliferative Disorders	1	0.08	0.15	0	0.00	0.00	1	0.08	0.08
	Leukemia	32	2.71	4.87	40	3.38	5.99	72	6.09	5.43
	Plasma Cell Tumor	5	0.42	0.76	13	1.10	1.95	18	1.52	1.36
C44 / Skin, other		25	2.12	3.80	16	1.35	2.40	41	3.47	3.09
C47 /Nerves System		1	0.08	0.15	0	0.00	0.00	1	0.08	0.08

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C48 / Peritoneum		1	0.08	0.15	2	0.17	0.30	3	0.25	0.23
C49 / Soft tissues		3	0.25	0.46	9	0.76	1.35	12	1.02	0.91
C50 / Breast		170	14.38	25.87	8	0.68	1.20	178	15.06	13.43
C53 / Cervix Uteri		6	0.51	0.91	0	0.00	0.00	6	0.51	0.91
C54 / Corpus Uteri		5	0.42	0.76	0	0.00	0.00	5	0.42	0.76
C55 / Uterus Unspecified		20	1.69	3.04	0	0.00	0.00	20	1.69	3.04
C56 / Ovary		19	1.61	2.89	0	0.00	0.00	19	1.61	2.89
C61 / Prostate		0	0.00	0.00	37	3.13	5.54	37	3.13	5.54
C62 / Testis		0	0.00	0.00	5	0.42	0.75	5	0.42	0.75
C64 / Kidney		8	0.68	1.22	18	1.52	2.70	26	2.20	1.96
C66 / Ureter		0	0.00	0.00	1	0.08	0.15	1	0.08	0.08
C67 / Urinary Bladder		20	1.69	3.04	56	4.74	8.39	76	6.43	5.74
C69 / Eye & Adnexa		1	0.08	0.15	2	0.17	0.30	3	0.25	0.23
C70 / Meninges		13	1.10	1.98	3	0.25	0.45	16	1.35	1.21
C71 / Brain		31	2.62	4.72	31	2.62	4.64	62	5.25	4.68
C72 / Nervous System, Other		2	0.17	0.30	2	0.17	0.30	4	0.34	0.30
C73 / Thyroid Gland		57	4.82	8.67	27	2.28	4.04	84	7.11	6.34
C74 / Adrenal gland		2	0.17	0.30	0	0.00	0.00	2	0.17	0.15
C75 / Endocrine Gland, Other		3	0.25	0.46	2	0.17	0.30	5	0.42	0.38
C76 / Unspecified Site		7	0.59	1.07	7	0.59	1.05	14	1.18	1.06
C77 / Lymph nodes	Hodgkin Lymphoma	1	0.08	0.15	6	0.51	0.90	7	0.59	0.53
	Non-Hodgkin Lymphoma	37	3.13	5.63	36	3.05	5.39	73	6.18	5.51
C80 / Unknown Primary Site		3	0.25	0.46	2	0.17	0.30	5	0.42	0.38
Total		641	54.23	97.54	541	45.77	81.01	1,182	100.00	89.21

Diyala
Populations Number : 1680328
Cancer Cases Number :1449
Incidence Rate: 86.23/100,000 Diyala Populations



3.4.8. Diyala governorate

Table No.; (46) Distribution of the top ten cancers in Diyala, Iraq, 2019

Top Ten Total		No.	%
1	Breast	358	24.71
2	Bronchus & Lung	98	6.76
3	Colorectal	97	6.69
4	Brain & Other CNS	92	6.35
5	Stomach	90	6.21
6	Leukemia	75	5.18
7	Skin, other	73	5.04
8	Urinary Bladder	57	3.93
9	Thyroid Gland	52	3.59
10	Kidney	38	2.62
Total Top Ten		1,030	71.08
Total other Site		419	28.92
Total		1,449	100.00%

Figure No.; (35) Incidence rate of the top ten cancers in Diyala /100,000 Diyala populations, Iraq, 2019

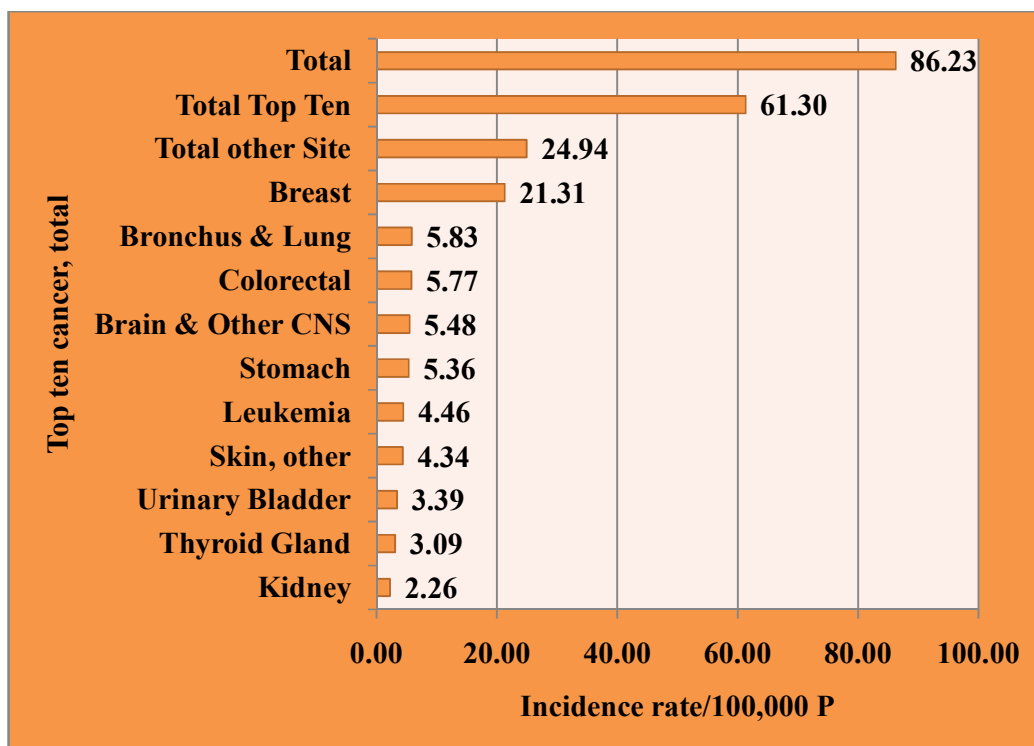


Table No.; (47) Distribution of the top ten cancers in males, Diyala, Iraq, 2019

Top Ten Male		No.	%
1	Bronchus & Lung	67	10.74
2	Colorectal	52	8.33
3	Stomach	50	8.01
4	Brain & Other CNS	47	7.53
5	Leukemia	44	7.05
6	Skin, other	38	6.09
7	Urinary Bladder	38	6.09
8	Prostate	29	4.65
9	Kidney	26	4.17
10	Non-Hodgkin Lymphoma	19	3.04
Total Top Ten		410	65.71
Total other Site		214	34.29
Total		624	100.00%

Figure No.; (36) Incidence rate of the top ten cancers in males / 100,000 male populations, Diyala, Iraq, 2019

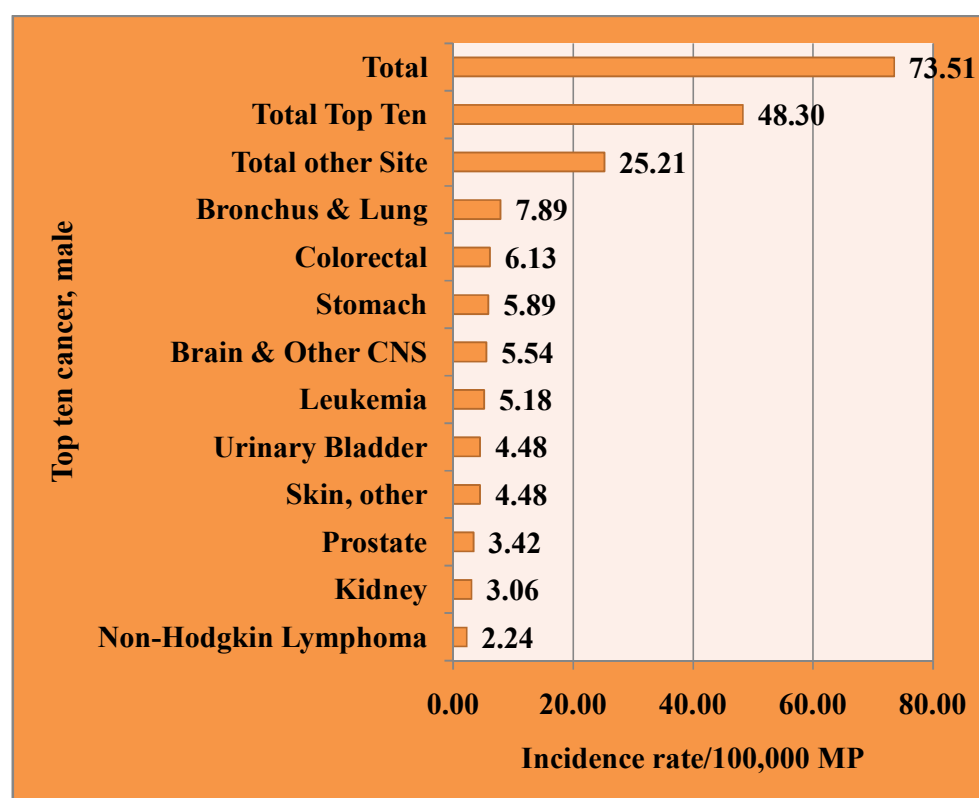
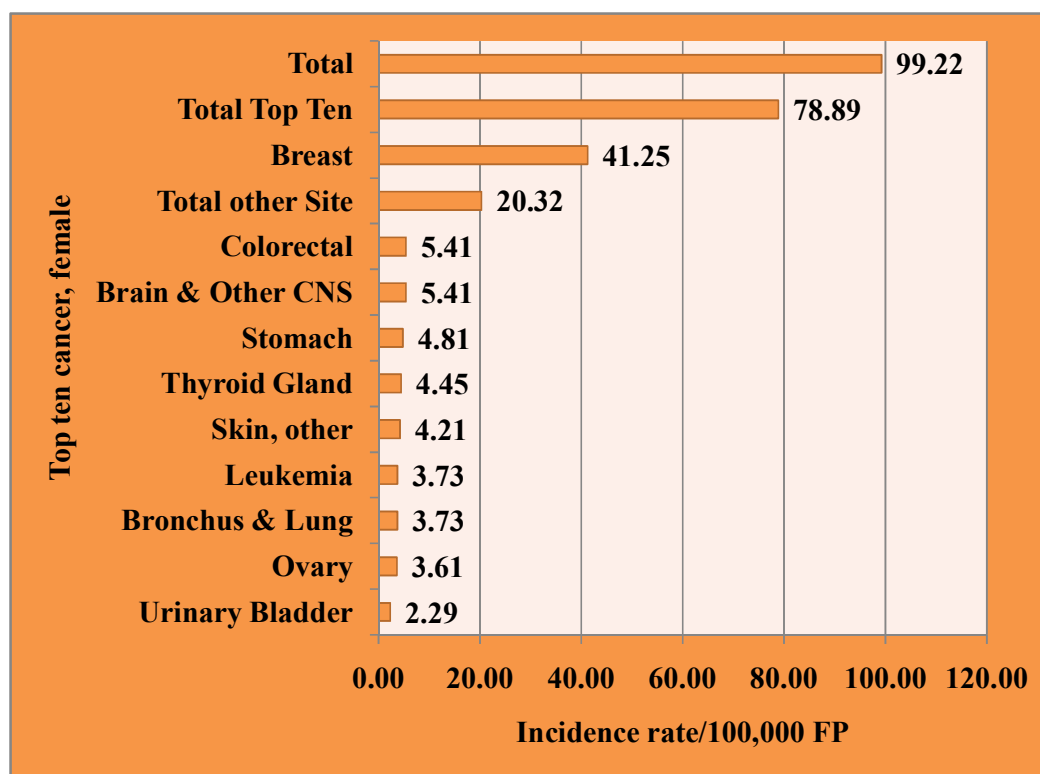


Table No.; (48) Distribution of the top ten cancers in females, Diyala, Iraq, 2019

Top Ten Female		No.	%
1	Breast	343	41.58
2	Brain & Other CNS	45	5.45
3	Colorectal	45	5.45
4	Stomach	40	4.85
5	Thyroid Gland	37	4.48
6	Skin, other	35	4.24
7	Bronchus & Lung	31	3.76
8	Leukemia	31	3.76
9	Ovary	30	3.64
10	Urinary Bladder	19	2.30
Total Top Ten		656	79.52
Total other Site		169	20.48
Total		825	100.00%

Figure No.; (37) Incidence rate of the top ten cancers in females / 100,000 female populations, Diyala, Iraq, 2019



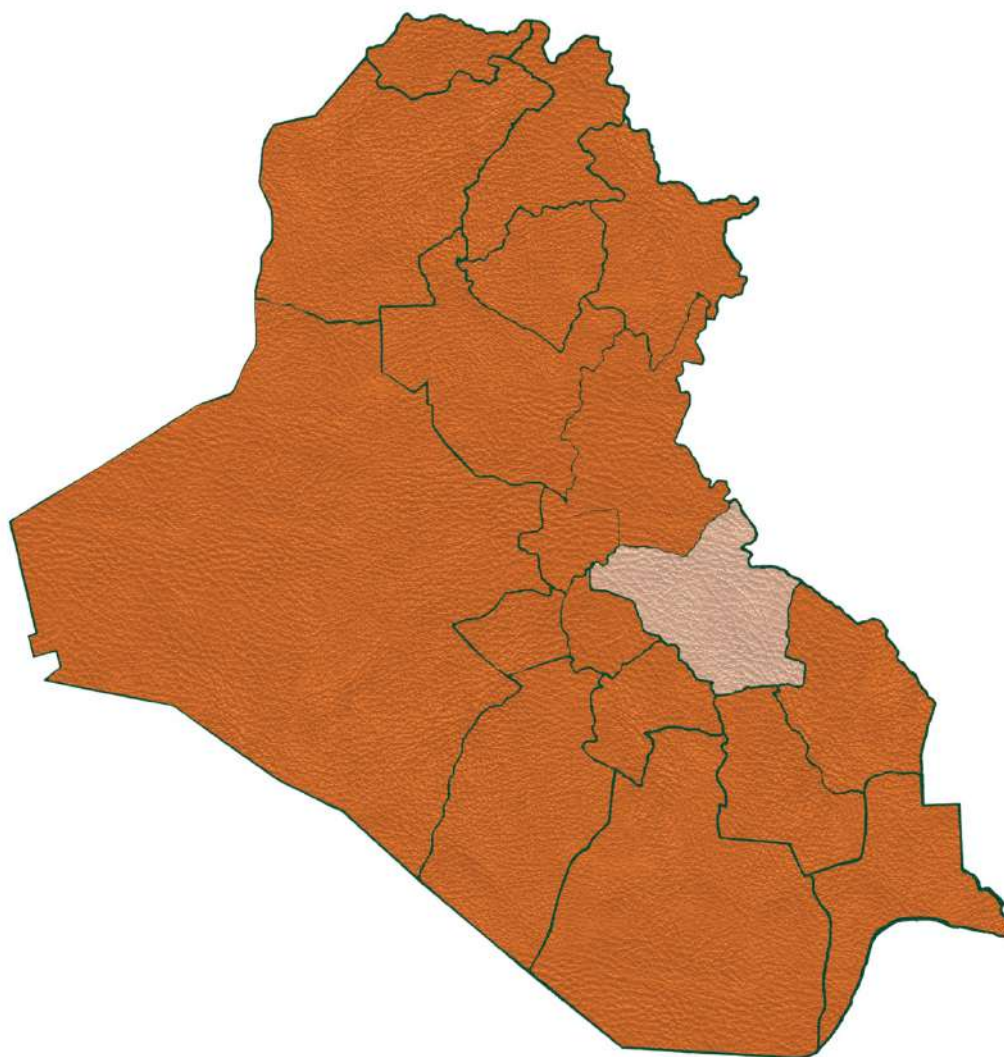
**Table No.; (49) Distribution and the incidence rate of cancer /100,000 populations
by ICD-O, site, and gender in Diyala, Iraq, 2019**

ICD-O code / Site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C01 / Tongue, Base	0	0.00	0.00	1	0.07	0.12	1	0.07	0.06
C02 / Tongue, other	1	0.07	0.12	2	0.14	0.24	3	0.21	0.18
C04 / Mouth - Floor	0	0.00	0.00	1	0.07	0.12	1	0.07	0.06
C06 / Mouth - other	1	0.07	0.12	1	0.07	0.12	2	0.14	0.12
C07 / Parotid Gland	2	0.14	0.24	2	0.14	0.24	4	0.28	0.24
C08 / Mouth Glands	2	0.14	0.24	1	0.07	0.12	3	0.21	0.18
C09 / Tonsil	2	0.14	0.24	1	0.07	0.12	3	0.21	0.18
C10 / Oropharynx	4	0.28	0.48	0	0.00	0.00	4	0.28	0.24
C11 / Nasopharynx	3	0.21	0.36	12	0.83	1.41	15	1.04	0.89
C12 / Pyriform	0	0.00	0.00	2	0.14	0.24	2	0.14	0.12
C14 / Pharynx	0	0.00	0.00	2	0.14	0.24	2	0.14	0.12
C15 / Esophagus	4	0.28	0.48	3	0.21	0.35	7	0.48	0.42
C16 / Stomach	40	2.76	4.81	50	3.45	5.89	90	6.21	5.36
C17 / Small intestine	2	0.14	0.24	1	0.07	0.12	3	0.21	0.18
C18 / Colon	30	2.07	3.61	31	2.14	3.65	61	4.21	3.63
C19 / Recto sigmoid Junction	3	0.21	0.36	1	0.07	0.12	4	0.28	0.24
C20 / Rectum	12	0.83	1.44	20	1.38	2.36	32	2.21	1.90
C21 / Anus & Anal Canal	1	0.07	0.12	0	0.00	0.00	1	0.07	0.06
C22 / Liver & Bile Ducts	6	0.41	0.72	16	1.10	1.88	22	1.52	1.31
C23 / Gallbladder	5	0.35	0.60	7	0.48	0.82	12	0.83	0.71
C24 / Biliary Tract, Other	2	0.14	0.24	2	0.14	0.24	4	0.28	0.24
C25 / Pancreas	15	1.04	1.80	18	1.24	2.12	33	2.28	1.96
C26 / Other Digestive Organs	1	0.07	0.12	4	0.28	0.47	5	0.35	0.30
C30 / Nasal Cavity	1	0.07	0.12	0	0.00	0.00	1	0.07	0.06
C31 / Accessory Sinus	0	0.00	0.00	2	0.14	0.24	2	0.14	0.12
C32 / Larynx	8	0.55	0.96	14	0.97	1.65	22	1.52	1.31
C34 / Bronchus & Lung	31	2.14	3.73	67	4.62	7.89	98	6.76	5.83
C38 / Heart, Mediastinum, Pleura	1	0.07	0.12	1	0.07	0.12	2	0.14	0.12
C39 / Other Respiratory & Thoracic	1	0.07	0.12	0	0.00	0.00	1	0.07	0.06
C40 / Bone & Cartilage, Limbs	10	0.69	1.20	12	0.83	1.41	22	1.52	1.31
C41 / Bones & Cartilage, other	3	0.21	0.36	3	0.21	0.35	6	0.41	0.36

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C42 / Reticulo Endothelial & Hematopoietic System	Chronic Myelo proliferative Disorders	0	0.00	0.00	4	0.28	0.47	4	0.28	0.24
	Leukemia	31	2.14	3.73	44	3.04	5.18	75	5.18	4.46
	Myelo Dysplastic Syndromes	0	0.00	0.00	1	0.07	0.12	1	0.07	0.06
	Plasma Cell Tumor	3	0.21	0.36	5	0.35	0.59	8	0.55	0.48
C44 / Skin, other		35	2.42	4.21	38	2.62	4.48	73	5.04	4.34
C47 /Nerves System		1	0.07	0.12	1	0.07	0.12	2	0.14	0.12
C49 / soft tissues		5	0.35	0.60	11	0.76	1.30	16	1.10	0.95
C50 / Breast		343	23.67	41.25	15	1.04	1.77	358	24.71	21.31
C51 / Vulva		1	0.07	0.12	0	0.00	0.00	1	0.07	0.12
C52 / Vagina		1	0.07	0.12	0	0.00	0.00	1	0.07	0.12
C53 / Cervix Uteri		5	0.35	0.60	0	0.00	0.00	5	0.35	0.60
C54 / Corpus Uteri		15	1.04	1.80	0	0.00	0.00	15	1.04	1.80
C55 / Uterus Unspecified		8	0.55	0.96	0	0.00	0.00	8	0.55	0.96
C56 / Ovary		30	2.07	3.61	0	0.00	0.00	30	2.07	3.61
C59 / Placenta		3	0.21	0.36	0	0.00	0.00	3	0.21	0.36
C61 / Prostate		0	0.00	0.00	29	2.00	3.42	29	2.00	3.42
C62 / Testis		0	0.00	0.00	9	0.62	1.06	9	0.62	1.06
C64 / Kidney		12	0.83	1.44	26	1.79	3.06	38	2.62	2.26
C65 / Pelvis		0	0.00	0.00	2	0.14	0.24	2	0.14	0.12
C67 / Urinary Bladder		19	1.31	2.29	38	2.62	4.48	57	3.93	3.39
C68 / Urinary organs, other		0	0.00	0.00	1	0.07	0.12	1	0.07	0.06
C69 / Eye & Adnexa		1	0.07	0.12	1	0.07	0.12	2	0.14	0.12
C70 / Meninges		12	0.83	1.44	5	0.35	0.59	17	1.17	1.01
C71 / Brain		30	2.07	3.61	40	2.76	4.71	70	4.83	4.17
C72 / Nervous System, Other		1	0.07	0.12	0	0.00	0.00	1	0.07	0.06
C73 / Thyroid Gland		37	2.55	4.45	15	1.04	1.77	52	3.59	3.09
C74 / Adrenal gland		3	0.21	0.36	4	0.28	0.47	7	0.48	0.42
C75 / Endocrine Gland, Other		2	0.14	0.24	4	0.28	0.47	6	0.41	0.36
C76 / Unspecified Site		7	0.48	0.84	3	0.21	0.35	10	0.69	0.60
C77 / Lymph nodes	Lymph node, NOS	1	0.07	0.12	0	0.00	0.00	1	0.07	0.06
	Hodgkin Lymphoma	8	0.55	0.96	13	0.90	1.53	21	1.45	1.25
	Non-Hodgkin Lymphoma	10	0.69	1.20	19	1.31	2.24	29	2.00	1.73

ICD-O code / Site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C80 / Unknown Primary Site	10	0.69	1.20	19	1.31	2.24	29	2.00	1.73
Total	825	56.94	99.22	624	43.06	73.51	1,449	100.00	86.23

Wasit
Populations Number : 1415034
Cancer Cases Number :1155
Incidence Rate: 81.62/100,000 Wasit Populations



3.4.9. Wasit governorate

Table No.; (50) Distribution of the top ten cancers in Wasit, Iraq, 2019

Top Ten Total		No.	%
1	Breast	200	17.32
2	Bronchus & Lung	104	9.00
3	Urinary Bladder	87	7.53
4	Brain & Other CNS	80	6.93
5	Leukemia	76	6.58
6	Thyroid Gland	70	6.06
7	Colorectal	55	4.76
8	Non-Hodgkin Lymphoma	51	4.42
9	Skin, other	51	4.42
10	Kidney	37	3.20
Total Top Ten		811	70.22
Total other Site		344	29.78
Total		1,155	100.00%

Figure No.; (38) Incidence rate of the top ten cancers in Wasit /100,000 Wasit populations, Wasit, Iraq, 2019

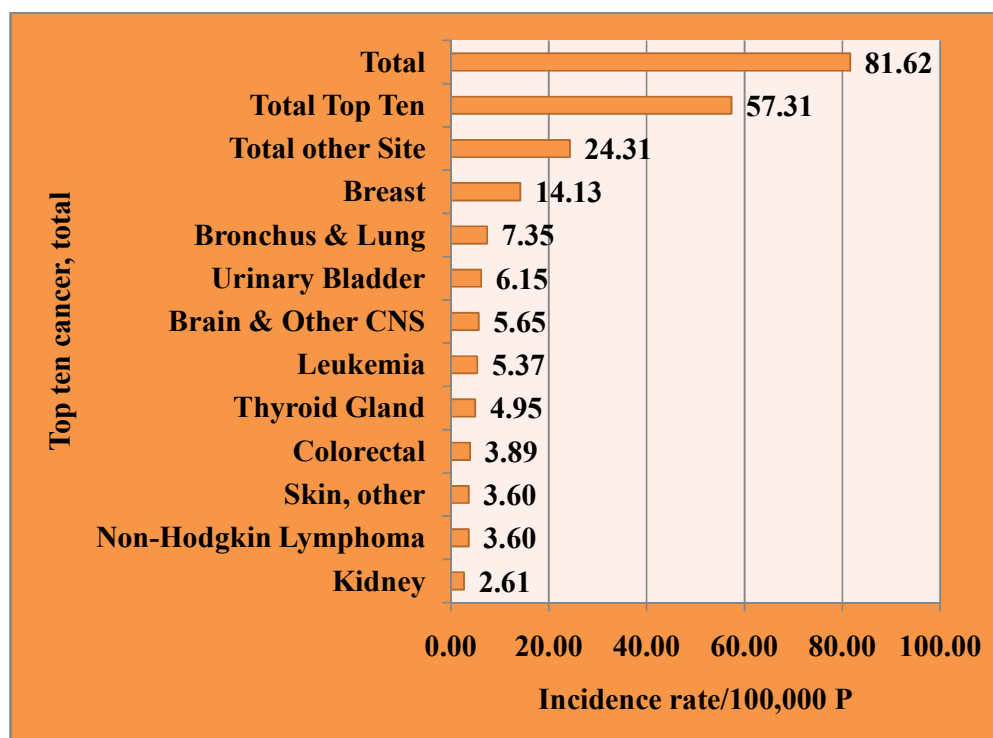


Table No.; (51) Distribution of the top ten cancers in males, Wasit, Iraq, 2019

Top Ten Male		No.	%
1	Bronchus & Lung	67	13.09
2	Urinary Bladder	65	12.70
3	Leukemia	44	8.59
4	Brain & Other CNS	41	8.01
5	Prostate	35	6.84
6	Non-Hodgkin Lymphoma	29	5.66
7	Skin, other	29	5.66
8	Colorectal	27	5.27
9	Kidney	27	5.27
10	Liver	18	3.52
Total Top Ten		382	74.61
Total other Site		130	25.39
Total		512	100.00%

Figure No.; (39) Incidence rate of the top ten cancers in males / 100,000 male populations, Wasit, Iraq, 2019

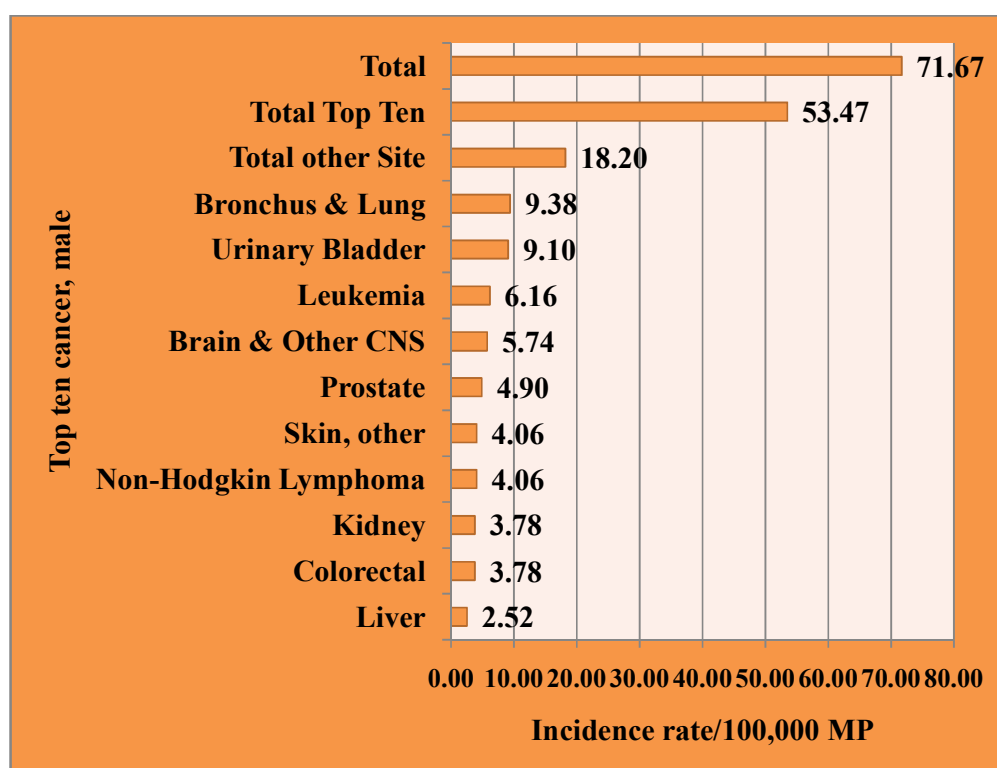
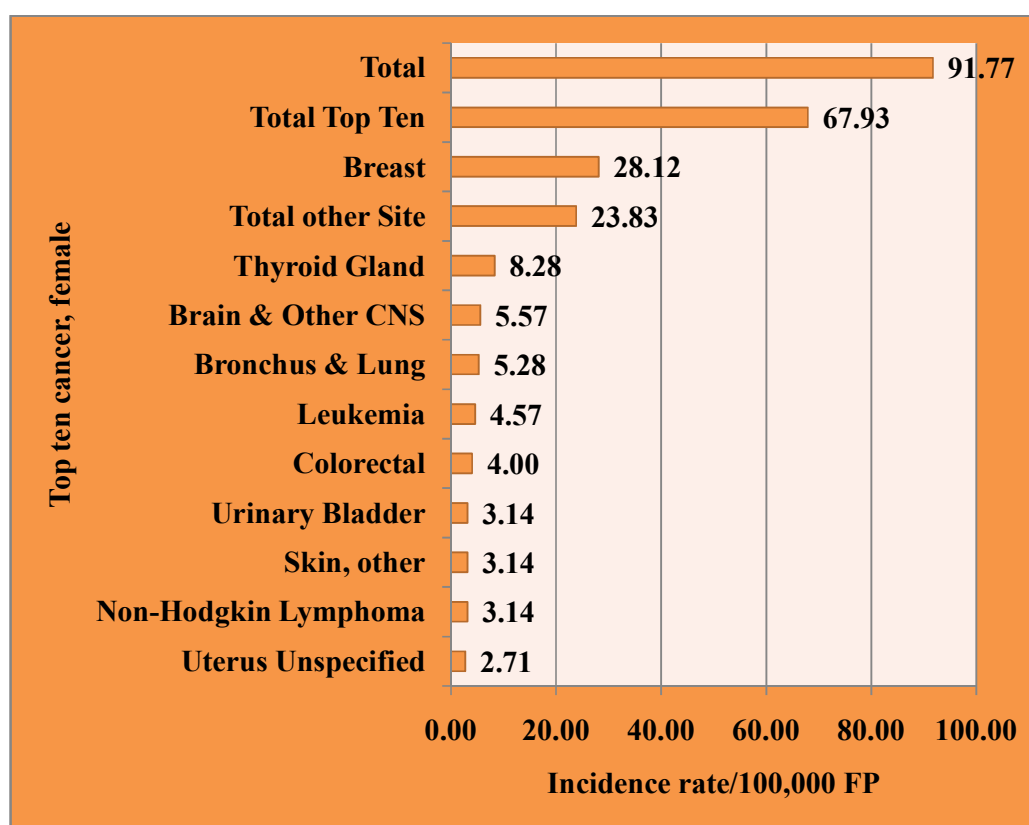


Table No.; (52) Distribution of the top ten cancers in females, Wasit, Iraq, 2019

Top Ten Female		No.	%
1	Breast	197	30.64
2	Thyroid Gland	58	9.02
3	Brain & Other CNS	39	6.07
4	Bronchus & Lung	37	5.75
5	Leukemia	32	4.98
6	Colorectal	28	4.35
7	Non-Hodgkin Lymphoma	22	3.42
8	Skin, other	22	3.42
9	Urinary Bladder	22	3.42
10	Uterus Unspecified	19	2.95
Total Top Ten		476	74.03
Total other Site		167	25.97
Total		643	100.00%

Figure No.; (40) Incidence rate of the top ten cancers in females / 100,000 female populations, Wasit, Iraq, 2019



**Table No.; (53) Distribution and the incidence rate of cancer /100,000
populations by ICD-O, site, and gender in Wasit, Iraq, 2019**

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip		1	0.09	0.14	0	0.00	0.00	1	0.09	0.07
C01 / Tongue, Base		2	0.17	0.29	1	0.09	0.14	3	0.26	0.21
C02 / Tongue, Other		0	0.00	0.00	4	0.35	0.56	4	0.35	0.28
C06 / Mouth - Other		0	0.00	0.00	1	0.09	0.14	1	0.09	0.07
C07 / Parotid Gland		1	0.09	0.14	0	0.00	0.00	1	0.09	0.07
C08 / Mouth Glands		0	0.00	0.00	2	0.17	0.28	2	0.17	0.14
C11 / Nasopharynx		1	0.09	0.14	4	0.35	0.56	5	0.43	0.35
C13 / Hypopharynx		3	0.26	0.43	0	0.00	0.00	3	0.26	0.21
C15 / Esophagus		2	0.17	0.29	5	0.43	0.70	7	0.61	0.49
C16 / Stomach		14	1.21	2.00	12	1.04	1.68	26	2.25	1.84
C17 / Small intestine		3	0.26	0.43	4	0.35	0.56	7	0.61	0.49
C18 / Colon		25	2.16	3.57	16	1.39	2.24	41	3.55	2.90
C20 / Rectum		3	0.26	0.43	11	0.95	1.54	14	1.21	0.99
C21 / Anus & Anal Canal		0	0.00	0.00	2	0.17	0.28	2	0.17	0.14
C22 / Liver & Bile Ducts		12	1.04	1.71	18	1.56	2.52	30	2.60	2.12
C23 / Gallbladder		2	0.17	0.29	2	0.17	0.28	4	0.35	0.28
C24 / Biliary Tract , other		3	0.26	0.43	4	0.35	0.56	7	0.61	0.49
C25 / Pancreas		9	0.78	1.28	14	1.21	1.96	23	1.99	1.63
C26 / Other Digestive organs		1	0.09	0.14	0	0.00	0.00	1	0.09	0.07
C31 / Accessory Sinus		0	0.00	0.00	1	0.09	0.14	1	0.09	0.07
C32 / Larynx		6	0.52	0.86	8	0.69	1.12	14	1.21	0.99
C34 / Bronchus & Lung		37	3.20	5.28	67	5.80	9.38	104	9.00	7.35
C37 / Thymus		0	0.00	0.00	1	0.09	0.14	1	0.09	0.07
C38 / Heart, Mediastinum, Pleura		2	0.17	0.29	1	0.09	0.14	3	0.26	0.21
C40 / Bone & Cartilage, Limbs		4	0.35	0.57	0	0.00	0.00	4	0.35	0.28
C41 / Bones & Cartilage, Other		4	0.35	0.57	5	0.43	0.70	9	0.78	0.64
C42 / Reticulo Endothelial & Hematopoietic System	Leukemia	32	2.77	4.57	44	3.81	6.16	76	6.58	5.37
	Myelo Dysplastic Syndromes	3	0.26	0.43	2	0.17	0.28	5	0.43	0.35
	Plasma Cell Tumor	2	0.17	0.29	5	0.43	0.70	7	0.61	0.49
C44 / Skin, other		22	1.90	3.14	29	2.51	4.06	51	4.42	3.60
C47 /Nerves System		2	0.17	0.29	1	0.09	0.14	3	0.26	0.21
C49 / soft tissues		7	0.61	1.00	7	0.61	0.98	14	1.21	0.99
C50 / Breast		197	17.06	28.12	3	0.26	0.42	200	17.32	14.13

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C52 / Vagina		2	0.17	0.29	0	0.00	0.00	2	0.17	0.29
C53 / Cervix Uteri		12	1.04	1.71	0	0.00	0.00	12	1.04	1.71
C54 / Corpus Uteri		10	0.87	1.43	0	0.00	0.00	10	0.87	1.43
C55 / Uterus Unspecified		19	1.65	2.71	0	0.00	0.00	19	1.65	2.71
C56 / Ovary		18	1.56	2.57	0	0.00	0.00	18	1.56	2.57
C59 / Placenta		4	0.35	0.57	0	0.00	0.00	4	0.35	0.57
C61 / Prostate		0	0.00	0.00	35	3.03	4.90	35	3.03	4.90
C62 / Testis		0	0.00	0.00	10	0.87	1.40	10	0.87	1.40
C64 / Kidney		10	0.87	1.43	27	2.34	3.78	37	3.20	2.61
C65 / Pelvis		1	0.09	0.14	1	0.09	0.14	2	0.17	0.14
C67 / Urinary Bladder		22	1.90	3.14	65	5.63	9.10	87	7.53	6.15
C69 / Eye & Adnexa		2	0.17	0.29	1	0.09	0.14	3	0.26	0.21
C70 / Meninges		8	0.69	1.14	2	0.17	0.28	10	0.87	0.71
C71 / Brain		25	2.16	3.57	37	3.20	5.18	62	5.37	4.38
C72 / Nervous System, other		2	0.17	0.29	1	0.09	0.14	3	0.26	0.21
C73 / Thyroid Gland		58	5.02	8.28	12	1.04	1.68	70	6.06	4.95
C74 / Adrenal gland		1	0.09	0.14	2	0.17	0.28	3	0.26	0.21
C75 / Endocrine Gland, other		4	0.35	0.57	3	0.26	0.42	7	0.61	0.49
C76 / Unspecified Site		4	0.35	0.57	2	0.17	0.28	6	0.52	0.42
C77/ Lymph nodes	Hodgkin Lymphoma	10	0.87	1.43	6	0.52	0.84	16	1.39	1.13
	Non-Hodgkin Lymphoma	22	1.90	3.14	29	2.51	4.06	51	4.42	3.60
C80 / Unknown Primary Site		9	0.78	1.28	5	0.43	0.70	14	1.21	0.99
Total		643	55.67	91.77	512	44.33	71.67	1,155	100.00	81.62

Basra
Populations Number : 2985073
Cancer Cases Number : 2428
Incidence Rate: 81.34/100,000 Basra Populations



3.4.10. Al-Basra governorate

Table No.; (54) Distribution of the top ten cancers in Al-Basra, Iraq, 2019

Top Ten Total		No.	%
1	Breast	467	19.23
2	Bronchus & Lung	160	6.59
3	Leukemia	150	6.18
4	Colorectal	145	5.97
5	Brain & Other CNS	140	5.77
6	Non-Hodgkin Lymphoma	139	5.72
7	Urinary Bladder	132	5.44
8	Stomach	80	3.29
9	Kidney	77	3.17
10	Thyroid Gland	74	3.05
Total Top Ten		1,564	64.42
Total other Site		864	35.58
Total		2,428	100.00%

Figure No.; (41) Incidence rate of the top ten cancers in Al-Basra /100,000 Al-Basra populations, Iraq, 2019

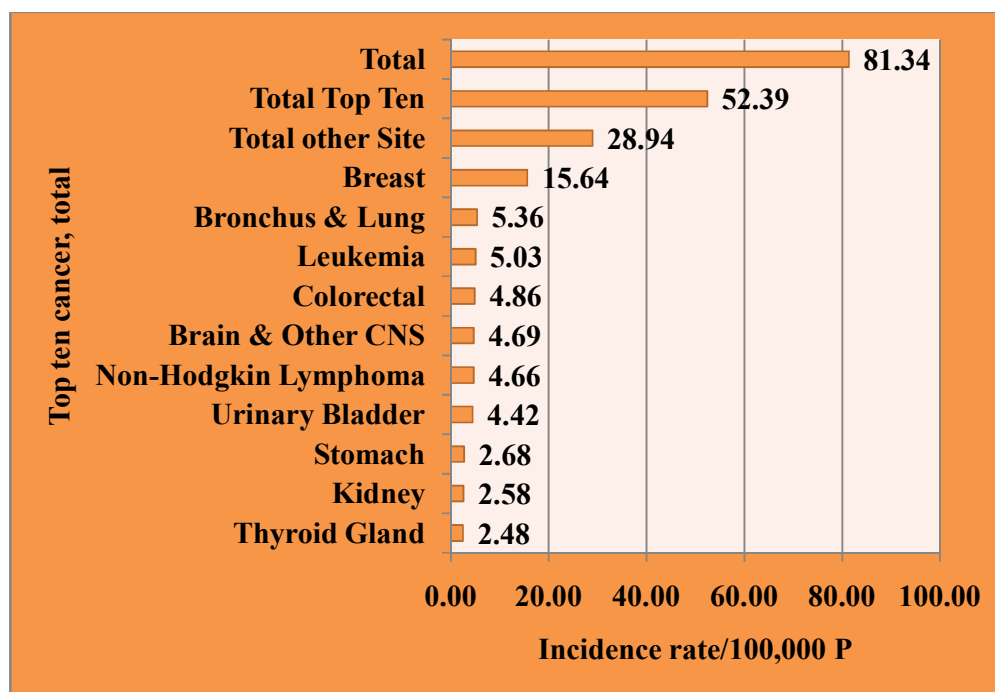


Table No.; (55) Distribution of the top ten cancers in males, Al-Basra, Iraq, 2019

Top Ten Male		No.	%
1	Bronchus & Lung	119	11.15
2	Urinary Bladder	99	9.28
3	Leukemia	90	8.43
4	Non-Hodgkin Lymphoma	76	7.12
5	Colorectal	74	6.94
6	Prostate	67	6.28
7	Brain & Other CNS	62	5.81
8	Kidney	47	4.40
9	Stomach	45	4.22
10	Skin, other	37	3.47
Total Top Ten		716	67.10
Total other Site		351	32.90
Total		1,067	100.00%

Figure No.; (42) Incidence rate of the top ten cancers in males / 100,000 male populations, Al-Basra, Iraq, 2019

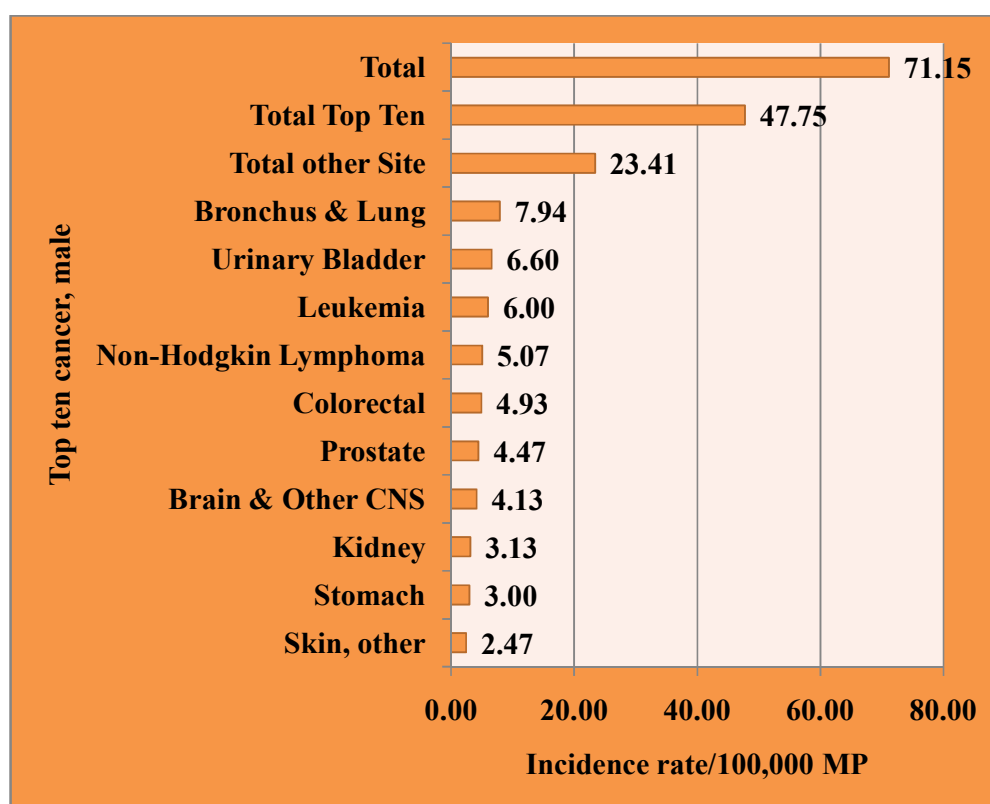
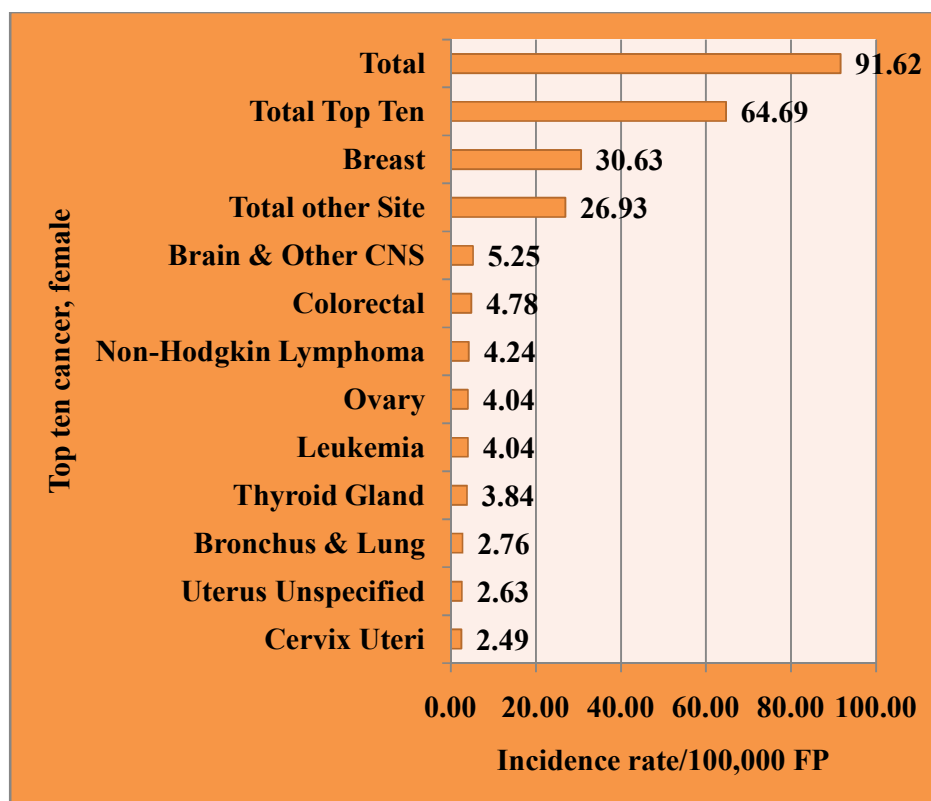


Table No.; (56) Distribution of the top ten cancers in females, Al-Basra, Iraq, 2019

Top Ten Female		No.	%
1	Breast	455	33.43
2	Brain & Other CNS	78	5.73
3	Colorectal	71	5.22
4	Non-Hodgkin Lymphoma	63	4.63
5	Leukemia	60	4.41
6	Ovary	60	4.41
7	Thyroid Gland	57	4.19
8	Bronchus & Lung	41	3.01
9	Uterus Unspecified	39	2.87
10	Cervix Uteri	37	2.72
Total Top Ten		961	70.61
Total other Site		400	29.39
Total		1,361	100.00%

Figure No.; (43) Incidence rate of the top ten cancers in females / 100,000 female populations, Al-Basra, Iraq, 2019

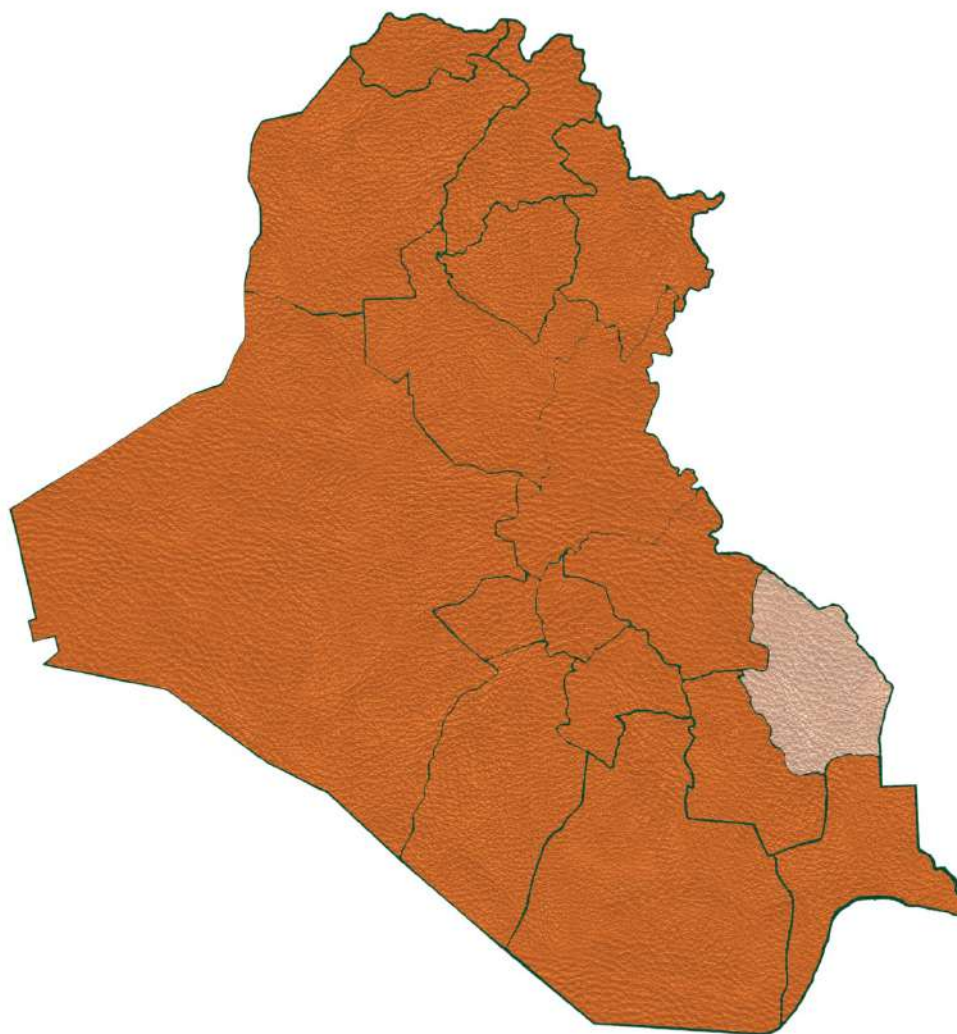


**Table No.; (57) Distribution and the incidence rate of cancer /100,000
populations by ICD-O, site, and gender in Al-Basra, Iraq, 2019**

ICD-O code / Site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C02 / Tongue, other	3	0.12	0.20	5	0.21	0.33	8	0.33	0.27
C03 / Gum	0	0.00	0.00	1	0.04	0.07	1	0.04	0.03
C04 / Mouth - Floor	0	0.00	0.00	1	0.04	0.07	1	0.04	0.03
C05 / Mouth - Palate	2	0.08	0.13	1	0.04	0.07	3	0.12	0.10
C06 / Mouth - other	2	0.08	0.13	1	0.04	0.07	3	0.12	0.10
C07 / Parotid Gland	8	0.33	0.54	3	0.12	0.20	11	0.45	0.37
C08 / Mouth Glands	3	0.12	0.20	2	0.08	0.13	5	0.21	0.17
C10 / Oropharynx	0	0.00	0.00	1	0.04	0.07	1	0.04	0.03
C11 / Nasopharynx	6	0.25	0.40	12	0.49	0.80	18	0.74	0.60
C13 / Hypopharynx	2	0.08	0.13	2	0.08	0.13	4	0.16	0.13
C14 / Pharynx	0	0.00	0.00	1	0.04	0.07	1	0.04	0.03
C15 / Esophagus	13	0.54	0.88	10	0.41	0.67	23	0.95	0.77
C16 / Stomach	35	1.44	2.36	45	1.85	3.00	80	3.29	2.68
C17 / Small intestine	1	0.04	0.07	4	0.16	0.27	5	0.21	0.17
C18 / Colon	48	1.98	3.23	41	1.69	2.73	89	3.67	2.98
C19 / Recto sigmoid Junction	1	0.04	0.07	4	0.16	0.27	5	0.21	0.17
C20 / Rectum	22	0.91	1.48	29	1.19	1.93	51	2.10	1.71
C21 / Anus & Anal Canal	0	0.00	0.00	2	0.08	0.13	2	0.08	0.07
C22 / Liver & Bile Ducts	11	0.45	0.74	17	0.70	1.13	28	1.15	0.94
C23 / Gallbladder	7	0.29	0.47	5	0.21	0.33	12	0.49	0.40
C24 / Biliary Tract , other	5	0.21	0.34	4	0.16	0.27	9	0.37	0.30
C25 / Pancreas	24	0.99	1.62	32	1.32	2.13	56	2.31	1.88
C30 / Nasal Cavity	0	0.00	0.00	2	0.08	0.13	2	0.08	0.07
C31 / Accessory Sinus	1	0.04	0.07	5	0.21	0.33	6	0.25	0.20
C32 / Larynx	2	0.08	0.13	30	1.24	2.00	32	1.32	1.07
C34 / Bronchus & Lung	41	1.69	2.76	119	4.90	7.94	160	6.59	5.36
C37 / Thymus	2	0.08	0.13	1	0.04	0.07	3	0.12	0.10
C38 / Heart, Mediastinum, Pleura	2	0.08	0.13	3	0.12	0.20	5	0.21	0.17
C40 / Bone & Cartilage, Limbs	4	0.16	0.27	3	0.12	0.20	7	0.29	0.23
C41 / Bones & Cartilage, other	7	0.29	0.47	7	0.29	0.47	14	0.58	0.47
C42 / Reticulo Endothelial & Hematopoietic System	Chronic Myelo proliferative Disorders								
	16	0.66	1.08	22	0.91	1.47	38	1.57	1.27
	Leukemia								
	60	2.47	4.04	90	3.71	6.00	150	6.18	5.03

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C42 / Reticulo Endothelial & Hematopoietic System	Myelo Dysplastic Syndromes	7	0.29	0.47	20	0.82	1.33	27	1.11	0.90
	Plasma Cell Tumor	16	0.66	1.08	16	0.66	1.07	32	1.32	1.07
C44 / Skin, other		30	1.24	2.02	37	1.52	2.47	67	2.76	2.24
C48 / Peritoneum		4	0.16	0.27	2	0.08	0.13	6	0.25	0.20
C49 / soft tissues		17	0.70	1.14	21	0.86	1.40	38	1.57	1.27
C50 / Breast		455	18.74	30.63	12	0.49	0.80	467	19.23	15.64
C51 / Vulva		1	0.04	0.07	0	0.00	0.00	1	0.04	0.07
C52 / Vagina		1	0.04	0.07	0	0.00	0.00	1	0.04	0.07
C53 / Cervix Uteri		37	1.52	2.49	0	0.00	0.00	37	1.52	2.49
C54 / Corpus Uteri		21	0.86	1.41	0	0.00	0.00	21	0.86	1.41
C55 / Uterus Unspecified		39	1.61	2.63	0	0.00	0.00	39	1.61	2.63
C56 / Ovary		60	2.47	4.04	0	0.00	0.00	60	2.47	4.04
C59 / Placenta		13	0.54	0.88	0	0.00	0.00	13	0.54	0.88
C60 / Penis		0	0.00	0.00	3	0.12	0.20	3	0.12	0.20
C61 / Prostate		0	0.00	0.00	67	2.76	4.47	67	2.76	4.47
C62 / Testis		0	0.00	0.00	16	0.66	1.07	16	0.66	1.07
C64 / Kidney		30	1.24	2.02	47	1.94	3.13	77	3.17	2.58
C67 / Urinary Bladder		33	1.36	2.22	99	4.08	6.60	132	5.44	4.42
C69 / Eye & Adnexa		4	0.16	0.27	3	0.12	0.20	7	0.29	0.23
C70 / Meninges		2	0.08	0.13	1	0.04	0.07	3	0.12	0.10
C71 / Brain		67	2.76	4.51	53	2.18	3.53	120	4.94	4.02
C72 / Nervous System, Other		4	0.16	0.27	5	0.21	0.33	9	0.37	0.30
C73 / Thyroid Gland		57	2.35	3.84	17	0.70	1.13	74	3.05	2.48
C74 / Adrenal gland		3	0.12	0.20	7	0.29	0.47	10	0.41	0.34
C75 / Endocrine Gland, Other		5	0.21	0.34	4	0.16	0.27	9	0.37	0.30
C76 / Unspecified Site		1	0.04	0.07	1	0.04	0.07	2	0.08	0.07
C77 / Lymph nodes	Hodgkin Lymphoma	27	1.11	1.82	26	1.07	1.73	53	2.18	1.78
	Non-Hodgkin Lymphoma	63	2.59	4.24	76	3.13	5.07	139	5.72	4.66
C80 / Unknown Primary Site		36	1.48	2.42	29	1.19	1.93	65	2.68	2.18
Total		1,361	56.05	91.62	1,067	43.95	71.15	2,428	100.00	81.34

Misan
Populations Number : 1141966
Cancer Cases Number : 899
Incidence Rate: 78.72 /100,000 Misan Populations



3.4.11. Misan governorate

Table No.; (58) Distribution of the top ten cancers in Misan, Iraq, 2019

Top Ten All		No.	%
1	Breast	146	16.24
2	Bronchus & Lung	90	10.01
3	Urinary Bladder	73	8.12
4	Colorectal	64	7.12
5	Leukemia	62	6.90
6	Brain & Other CNS	55	6.12
7	Pancreas	38	4.23
8	Non-Hodgkin Lymphoma	33	3.67
9	Thyroid Gland	33	3.67
10	Liver	31	3.45
Total Top Ten		625	69.52
Total other Site		274	30.48
Total		899	100.00

Figure No.; (44) Incidence rate of the top ten cancers in Misan /100,000 Misan populations, Iraq, 2019

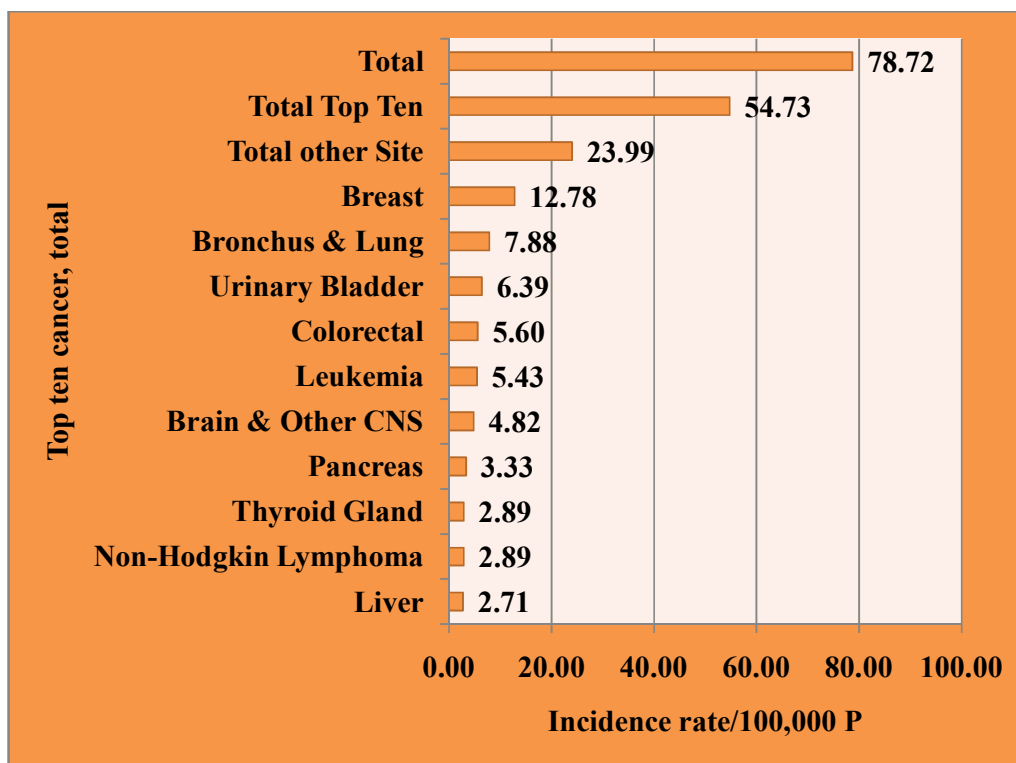


Table No.; (59) Distribution of the top ten cancers in males, Misan, Iraq, 2019

Top Ten Male		No.	%
1	Bronchus & Lung	67	15.19
2	Urinary Bladder	55	12.47
3	Colorectal	38	8.62
4	Leukemia	36	8.16
5	Brain & Other CNS	27	6.12
6	Prostate	25	5.67
7	Pancreas	24	5.44
8	Kidney	22	4.99
9	Liver	17	3.85
10	Larynx, Non-Hodgkin Lymphoma	16	3.63
Total Top Ten		327	74.15
Total other Site		114	25.85
Total		441	100.00%

Figure No.; (45) Incidence rate of the top ten cancers in males / 100,000 male populations, Misan, Iraq, 2019

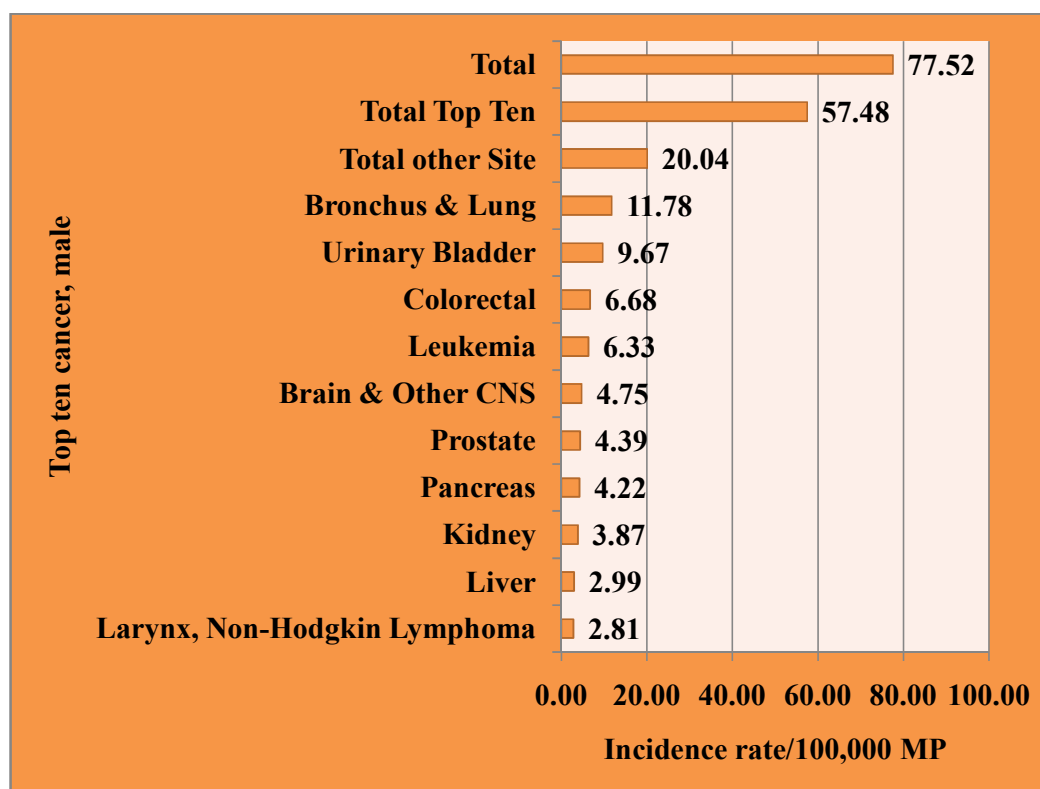
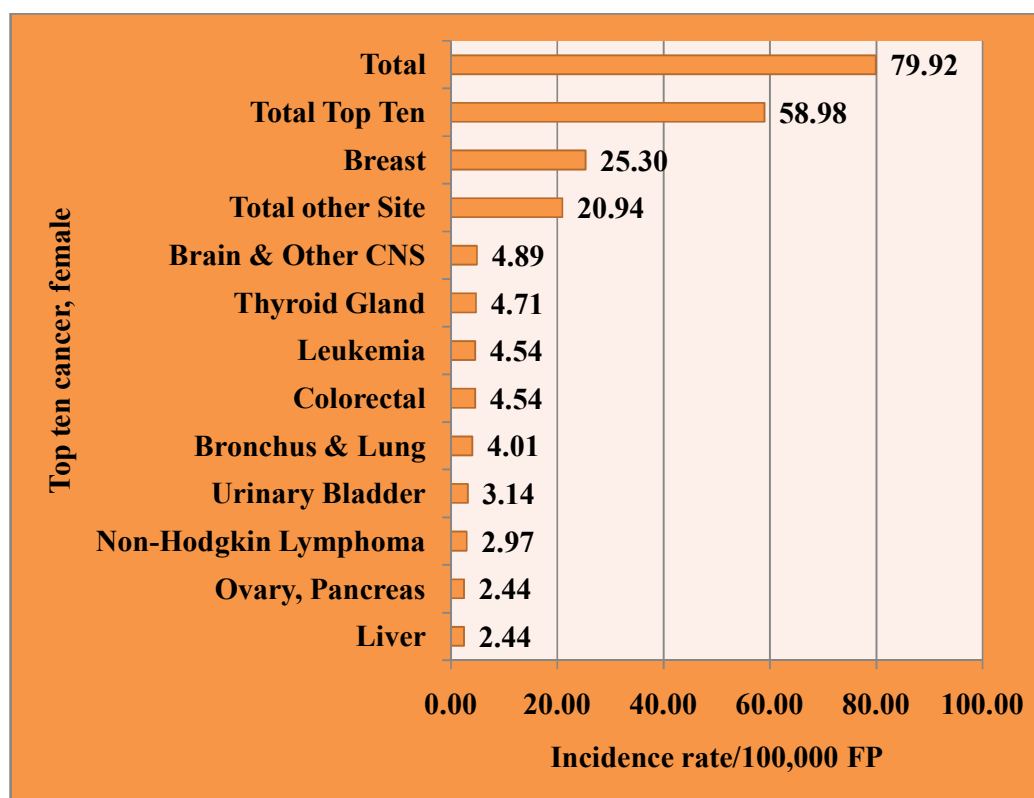


Table No.; (60) Distribution of the top ten cancers in females, Misan, Iraq, 2019

Top Ten Female		No.	%
1	Breast	145	31.66
2	Brain & Other CNS	28	6.11
3	Thyroid Gland	27	5.90
4	Colorectal	26	5.68
5	Leukemia	26	5.68
6	Bronchus & Lung	23	5.02
7	Urinary Bladder	18	3.93
8	Non-Hodgkin Lymphoma	17	3.71
9	Liver	14	3.06
10	Ovary, Pancreas	14	3.06
Total Top Ten		338	73.80
Total other Site		120	26.20
Total		458	100.00%

Figure No.; (46) Incidence rate of the top ten cancers in females / 100,000 female populations, Misan, Iraq, 2019



**Table No.; (61) Distribution and the incidence rate of cancer /100,000
populations by ICD-O, site, and gender in Misan, Iraq, 2019**

ICD-O code / Site of tumor	Female			Male			Total			
	No.	%	IR	No.	%	IR	No.	%	IR	
C02 / Tongue, other	4	0.44	0.70	2	0.22	0.35	6	0.67	0.53	
C03 / Gum	0	0.00	0.00	1	0.11	0.18	1	0.11	0.09	
C06 / Mouth - other	2	0.22	0.35	0	0.00	0.00	2	0.22	0.18	
C07 / Parotid Gland	1	0.11	0.17	0	0.00	0.00	1	0.11	0.09	
C10 / Oropharynx	0	0.00	0.00	3	0.33	0.53	3	0.33	0.26	
C11 / Nasopharynx	0	0.00	0.00	3	0.33	0.53	3	0.33	0.26	
C14 / Pharynx	0	0.00	0.00	1	0.11	0.18	1	0.11	0.09	
C15 / Oesophagus	0	0.00	0.00	2	0.22	0.35	2	0.22	0.18	
C16 / Stomach	9	1.00	1.57	12	1.33	2.11	21	2.34	1.84	
C17 / Small intestine	2	0.22	0.35	4	0.44	0.70	6	0.67	0.53	
C18 / Colon	21	2.34	3.66	27	3.00	4.75	48	5.34	4.20	
C20 / Rectum	5	0.56	0.87	11	1.22	1.93	16	1.78	1.40	
C22 / Liver & Bile Ducts	14	1.56	2.44	17	1.89	2.99	31	3.45	2.71	
C23 / Gallbladder	4	0.44	0.70	1	0.11	0.18	5	0.56	0.44	
C24 / Biliary Tract , other	1	0.11	0.17	1	0.11	0.18	2	0.22	0.18	
C25 / Pancreas	14	1.56	2.44	24	2.67	4.22	38	4.23	3.33	
C26 / Other Digestive organs	1	0.11	0.17	0	0.00	0.00	1	0.11	0.09	
C31 / Accessory Sinus	1	0.11	0.17	0	0.00	0.00	1	0.11	0.09	
C32 / Larynx	3	0.33	0.52	16	1.78	2.81	19	2.11	1.66	
C34 / Bronchus & Lung	23	2.56	4.01	67	7.45	11.78	90	10.01	7.88	
C38 / Heart, Mediastinum, Pleura	1	0.11	0.17	2	0.22	0.35	3	0.33	0.26	
C40 / Bone & Cartilage, Limbs	0	0.00	0.00	1	0.11	0.18	1	0.11	0.09	
C41 / Bones & Cartilage, other	8	0.89	1.40	11	1.22	1.93	19	2.11	1.66	
C42 / Reticulo Endothelial & Hematopoietic System	Chronic Myelo proliferative Disorders	1	0.11	0.17	0	0.00	0.00	1	0.11	0.09
	Immuno proliferative Diseases	4	0.44	0.70	1	0.11	0.18	5	0.56	0.44
	Leukemia	26	2.89	4.54	36	4.00	6.33	62	6.90	5.43
	Myelo Dysplastic Syndromes	3	0.33	0.52	1	0.11	0.18	4	0.44	0.35
	Plasma Cell Tumor	1	0.11	0.17	4	0.44	0.70	5	0.56	0.44
C44 / Skin, other	10	1.11	1.75	11	1.22	1.93	21	2.34	1.84	
C47 /Nerves System	0	0.00	0.00	1	0.11	0.18	1	0.11	0.09	
C49 / Soft tissues	5	0.56	0.87	1	0.11	0.18	6	0.67	0.53	
C50 / Breast	145	16.13	25.30	1	0.11	0.18	146	16.24	12.78	
C51 / Vulva	4	0.44	0.70	0	0.00	0.00	4	0.44	0.35	
C53 / Cervix Uteri	2	0.22	0.35	0	0.00	0.00	2	0.22	0.18	

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C55 / Uterus Unspecified		13	1.45	2.27	0	0.00	0.00	13	1.45	1.14
C56 / Ovary		14	1.56	2.44	0	0.00	0.00	14	1.56	1.23
C61 / Prostate		0	0.00	0.00	25	2.78	4.39	25	2.78	2.19
C62 / Testis		0	0.00	0.00	6	0.67	1.05	6	0.67	0.53
C63 / Male genital, other		0	0.00	0.00	1	0.11	0.18	1	0.11	0.09
C64 / Kidney		7	0.78	1.22	22	2.45	3.87	29	3.23	2.54
C67 / Urinary Bladder		18	2.00	3.14	55	6.12	9.67	73	8.12	6.39
C69 / Eye & Adnexa		2	0.22	0.35	1	0.11	0.18	3	0.33	0.26
C70 / Meninges		1	0.11	0.17	2	0.22	0.35	3	0.33	0.26
C71 / Brain		24	2.67	4.19	25	2.78	4.39	49	5.45	4.29
C72 / Nervous System, other		1	0.11	0.17	0	0.00	0.00	1	0.11	0.09
C73 / Thyroid Gland		27	3.00	4.71	6	0.67	1.05	33	3.67	2.89
C74 / Adrenal gland		1	0.11	0.17	3	0.33	0.53	4	0.44	0.35
C75 / Endocrine Gland, other		2	0.22	0.35	0	0.00	0.00	2	0.22	0.18
C76 / Unspecified Site		2	0.22	0.35	0	0.00	0.00	2	0.22	0.18
C77/ Lymph nodes	Hodgkin Lymphoma	8	0.89	1.40	15	1.67	2.64	23	2.56	2.01
	Non-Hodgkin Lymphoma	17	1.89	2.97	16	1.78	2.81	33	3.67	2.89
C80 / Unknown Primary Site		6	0.67	1.05	2	0.22	0.35	8	0.89	0.70
Total		458	50.95	79.92	441	49.05	77.52	899	100.00	78.72

Al-Anbar
Populations Number : 1818318
Cancer Cases Number :1431
Incidence Rate: 78.70/100,000 Al-Anbar Populations

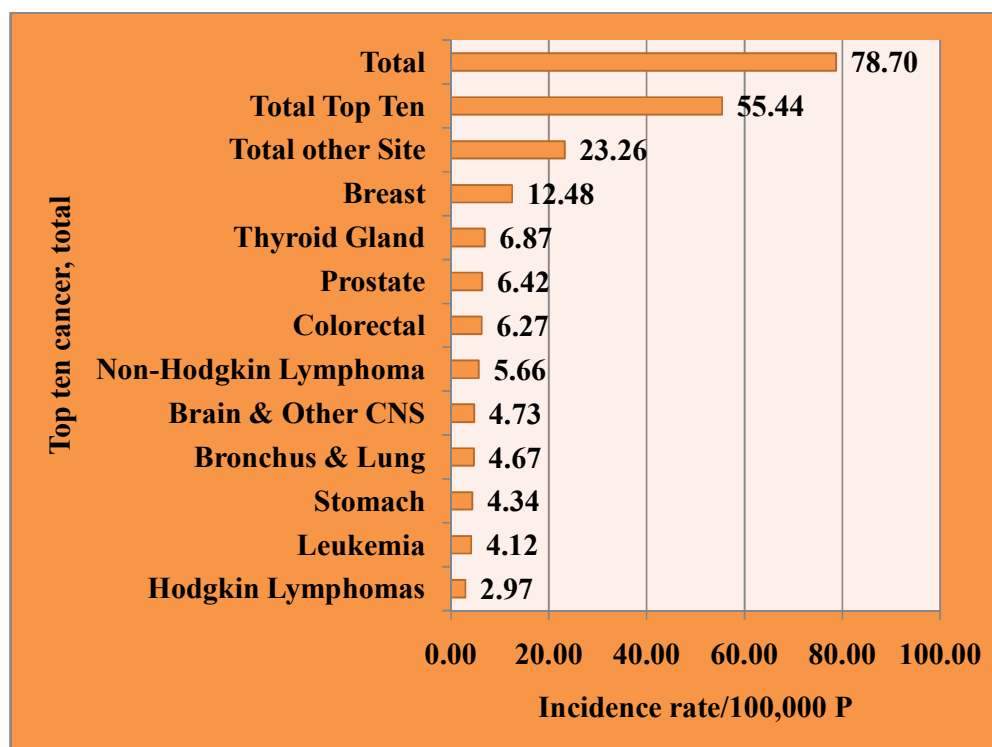


3.4.12. Al-Anbar governorate

Table No.; (62) Distribution of the top ten cancers in Al-Anbar, Iraq, 2019

Top Ten Total		No.	%
1	Breast	227	15.86
2	Thyroid Gland	125	8.74
3	Colorectal	114	7.97
4	Non-Hodgkin Lymphoma	103	7.20
5	Brain & Other CNS	86	6.01
6	Bronchus & Lung	85	5.94
7	Stomach	79	5.52
8	Leukemia	75	5.24
9	Prostate	60	4.19
10	Hodgkin Lymphomas	54	3.77
Total Top Ten		1,008	70.44
Total other Site		423	29.56
Total		1,431	100.00%

Figure No.; (47) Incidence rate of the top ten cancer in Al-Anbar /100,000 Al-Anbar populations, Iraq, 2019



The prostate incidence rate is calculated from the male population.

Table No.; (63) Distribution of the top ten cancers in males, Al-Anbar, Iraq, 2019

Top Ten Male		No.	No.
1	Prostate	60	9.55
2	Non-Hodgkin Lymphoma	59	9.39
3	Bronchus & Lung	58	9.24
4	Colorectal	57	9.08
5	Leukemia	43	6.85
6	Urinary Bladder	43	6.85
7	Brain & Other CNS	42	6.69
8	Stomach	41	6.53
9	Hodgkin Lymphomas	26	4.14
10	Kidney, Thyroid Gland	23	3.66
Total Top Ten		452	71.97
Total other Site		176	28.03
Total		628	100.00%

Figure No.; (48) Incidence rate of the top ten cancers in males / 100,000 male populations, Al-Anbar, Iraq, 2019

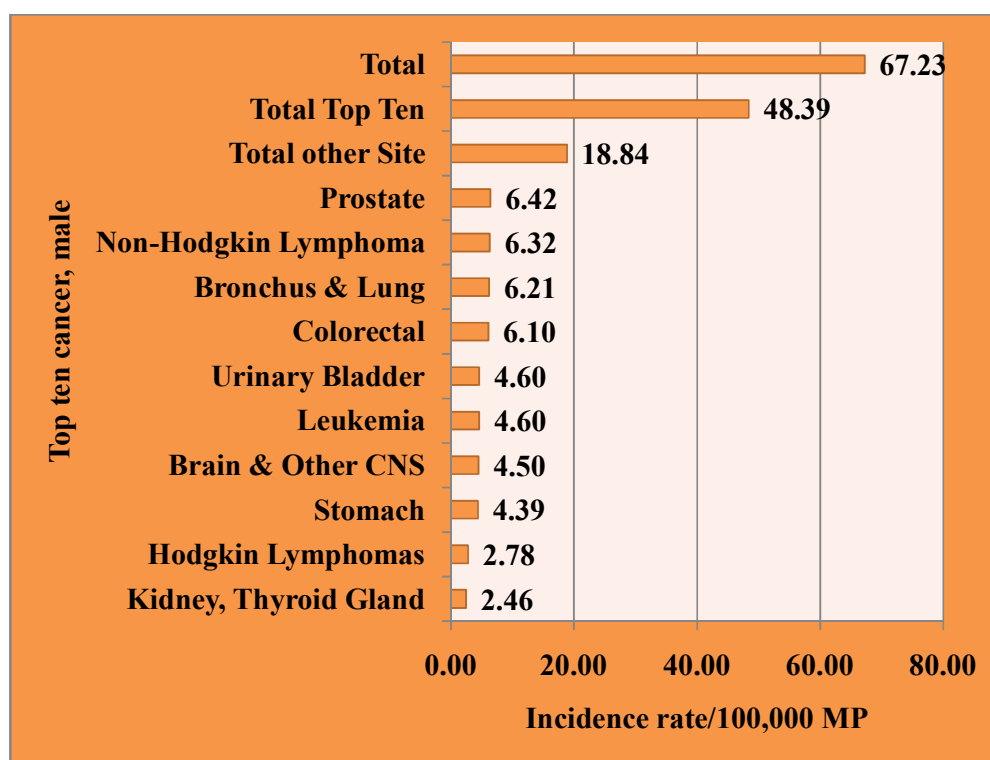
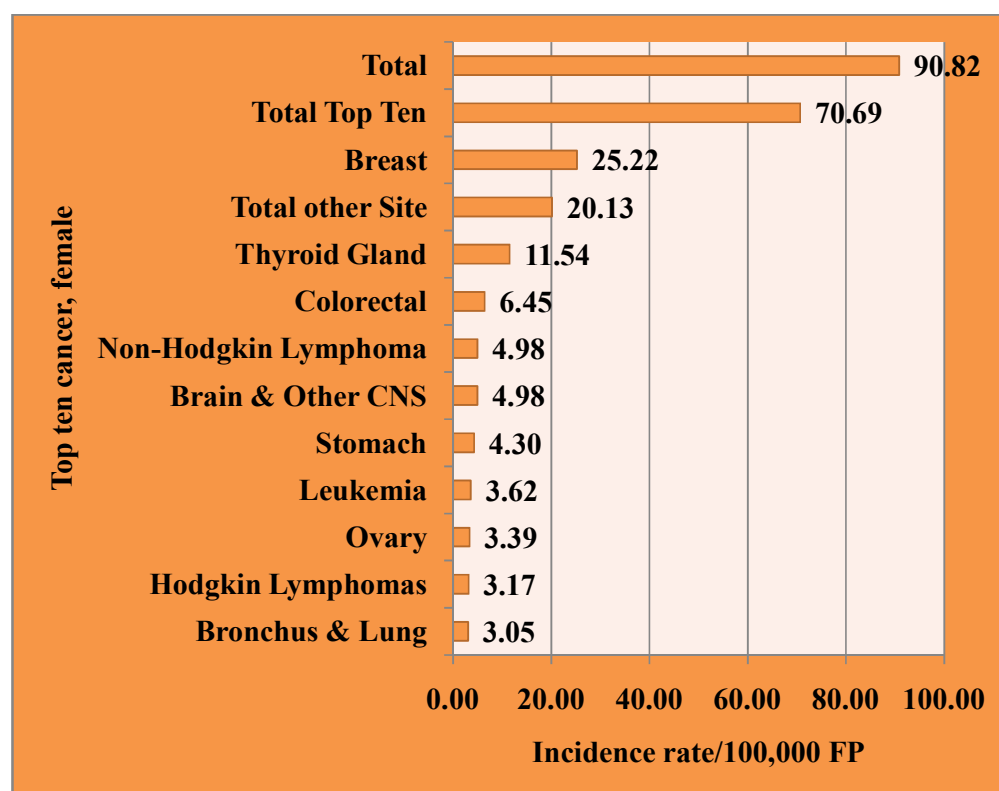


Table No.; (64) Distribution of the top ten cancers in females, Al-Anbar, Iraq, 2019

Top Ten Female		No.	No.
1	Breast	223	27.77
2	Thyroid Gland	102	12.70
3	Colorectal	57	7.10
4	Brain & Other CNS	44	5.48
5	Non-Hodgkin Lymphoma	44	5.48
6	Stomach	38	4.73
7	Leukemia	32	3.99
8	Ovary	30	3.74
9	Hodgkin Lymphomas	28	3.49
10	Bronchus & Lung	27	3.36
Total Top Ten		625	77.83
Total other Site		178	22.17
Total		803	100.00%

Figure No.; (49) Incidence rate of the top ten cancers in females / 100,000 female populations, Al-Anbar, Iraq, 2019

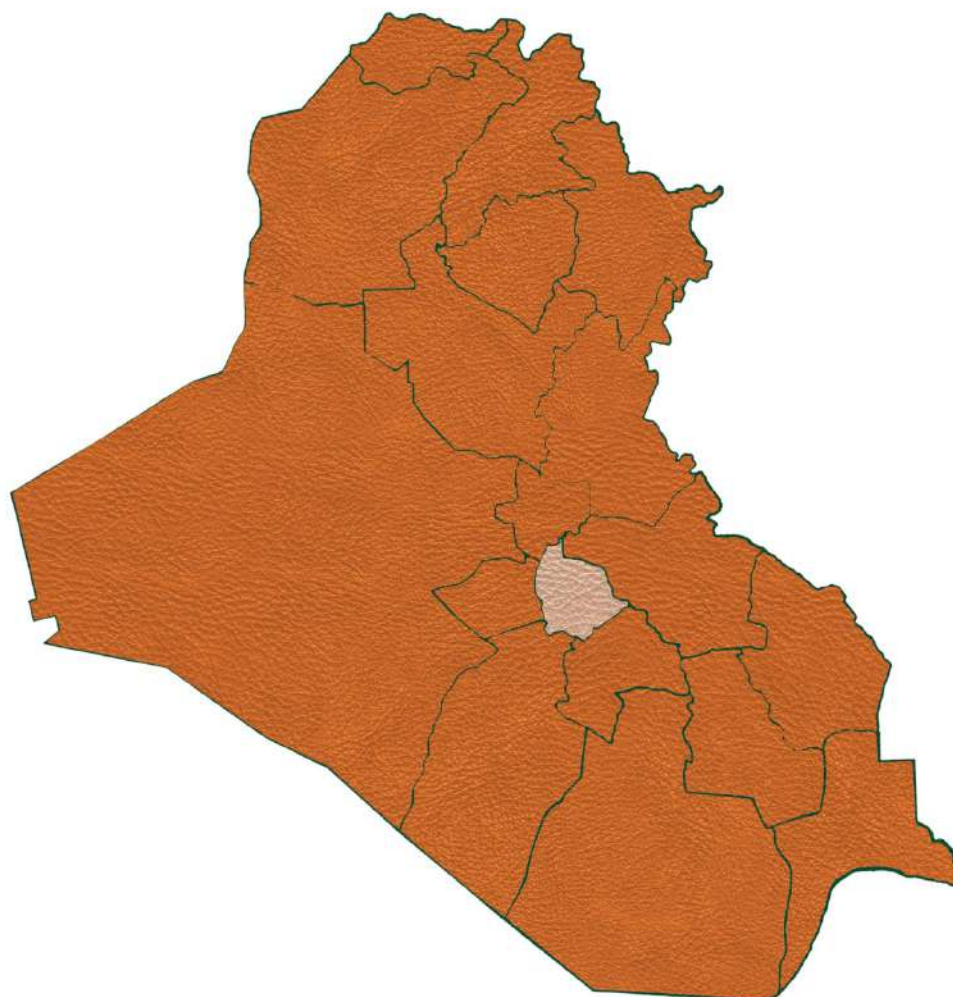


**Table No.; (65) Distribution and the incidence rate of cancer /100,000
populations by ICD-O, site, and gender in Al-Anbar, Iraq, 2019**

ICD-O code / Site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip	1	0.07	0.11	0	0.00	0.00	1	0.07	0.05
C01 / Tongue, Base	0	0.00	0.00	1	0.07	0.11	1	0.07	0.05
C02 / Tongue, other	1	0.07	0.11	1	0.07	0.11	2	0.14	0.11
C05 / Mouth - Palate	1	0.07	0.11	0	0.00	0.00	1	0.07	0.05
C06 / Mouth - other	0	0.00	0.00	2	0.14	0.21	2	0.14	0.11
C07 / Parotid Gland	4	0.28	0.45	5	0.35	0.54	9	0.63	0.49
C08 / Mouth Glands	3	0.21	0.34	0	0.00	0.00	3	0.21	0.16
C09 / Tonsil	0	0.00	0.00	3	0.21	0.32	3	0.21	0.16
C10 / Oropharynx	2	0.14	0.23	0	0.00	0.00	2	0.14	0.11
C11 / Nasopharynx	3	0.21	0.34	10	0.70	1.07	13	0.91	0.71
C13 / Hypopharynx	1	0.07	0.11	0	0.00	0.00	1	0.07	0.05
C14 / Pharynx	3	0.21	0.34	0	0.00	0.00	3	0.21	0.16
C15 / Esophagus	2	0.14	0.23	6	0.42	0.64	8	0.56	0.44
C16 / Stomach	38	2.66	4.30	41	2.87	4.39	79	5.52	4.34
C17 / Small intestine	3	0.21	0.34	2	0.14	0.21	5	0.35	0.27
C18 / Colon	32	2.24	3.62	35	2.45	3.75	67	4.68	3.68
C19 / Recto sigmoid Junction	8	0.56	0.90	1	0.07	0.11	9	0.63	0.49
C20 / Rectum	17	1.19	1.92	21	1.47	2.25	38	2.66	2.09
C21 / Anus & Anal Canal	0	0.00	0.00	1	0.07	0.11	1	0.07	0.05
C22 / Liver & Bile Ducts	8	0.56	0.90	18	1.26	1.93	26	1.82	1.43
C23 / Gallbladder	3	0.21	0.34	6	0.42	0.64	9	0.63	0.49
C24 / Biliary Tract , other	1	0.07	0.11	2	0.14	0.21	3	0.21	0.16
C25 / Pancreas	15	1.05	1.70	15	1.05	1.61	30	2.10	1.65
C26 / Other Digestive organs	1	0.07	0.11	3	0.21	0.32	4	0.28	0.22
C30 / Nasal Cavity	1	0.07	0.11	0	0.00	0.00	1	0.07	0.05
C32 / Larynx	2	0.14	0.23	5	0.35	0.54	7	0.49	0.38
C33 / Trachea	0	0.00	0.00	1	0.07	0.11	1	0.07	0.05
C34 / Bronchus & Lung	27	1.89	3.05	58	4.05	6.21	85	5.94	4.67
C37 / Thymus	1	0.07	0.11	0	0.00	0.00	1	0.07	0.05
C38 / Heart, Mediastinum, Pleura	2	0.14	0.23	0	0.00	0.00	2	0.14	0.11
C40 / Bone & Cartilage, Limbs	9	0.63	1.02	8	0.56	0.86	17	1.19	0.93
C41 / Bones & Cartilage, other	2	0.14	0.23	3	0.21	0.32	5	0.35	0.27
C42 / Reticulo Endothelial & Hemato poietic System									
Chronic Myelo proliferative Disorders	1	0.07	0.11	0	0.00	0.00	1	0.07	0.05

Code / Tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C42 / Reticulo Endothelial & Hematopoietic System	Immuno proliferative Diseases	0	0.00	0.00	1	0.07	0.11	1	0.07	0.05
	Leukemia	32	2.24	3.62	43	3.00	4.60	75	5.24	4.12
	Myelo Dysplastic Syndromes	2	0.14	0.23	1	0.07	0.11	3	0.21	0.16
	Plasma Cell Tumor	9	0.63	1.02	6	0.42	0.64	15	1.05	0.82
C44 / Skin, other		14	0.98	1.58	21	1.47	2.25	35	2.45	1.92
C47 / Nerves System		2	0.14	0.23	1	0.07	0.11	3	0.21	0.16
C48 / Peritoneum		1	0.07	0.11	3	0.21	0.32	4	0.28	0.22
C49 / Soft tissues		7	0.49	0.79	8	0.56	0.86	15	1.05	0.82
C50 / Breast		223	15.58	25.22	4	0.28	0.43	227	15.86	12.48
C51 / Vulva		1	0.07	0.11	0	0.00	0.00	1	0.07	0.05
C52 / Vagina		2	0.14	0.23	0	0.00	0.00	2	0.14	0.23
C53 / Cervix Uteri		8	0.56	0.90	0	0.00	0.00	8	0.56	0.90
C54 / Corpus Uteri		25	1.75	2.83	0	0.00	0.00	25	1.75	2.83
C55 / Uterus Unspecified		4	0.28	0.45	0	0.00	0.00	4	0.28	0.45
C56 / Ovary		30	2.10	3.39	0	0.00	0.00	30	2.10	3.39
C57 / Female genital, other		1	0.07	0.11	0	0.00	0.00	1	0.07	0.11
C59 / Placenta		3	0.21	0.34	0	0.00	0.00	3	0.21	0.34
C61 / Prostate		0	0.00	0.00	60	4.19	6.42	60	4.19	6.42
C62 / Testis		0	0.00	0.00	10	0.70	1.07	10	0.70	1.07
C64 / Kidney		9	0.63	1.02	23	1.61	2.46	32	2.24	1.76
C65 / Pelvis		1	0.07	0.11	0	0.00	0.00	1	0.07	0.05
C67 / Urinary Bladder		6	0.42	0.68	43	3.00	4.60	49	3.42	2.69
C69 / Eye & Adnexa		3	0.21	0.34	2	0.14	0.21	5	0.35	0.27
C70 / Meninges		5	0.35	0.57	3	0.21	0.32	8	0.56	0.44
C71 / Brain		36	2.52	4.07	37	2.59	3.96	73	5.10	4.01
C73 / Thyroid Gland		102	7.13	11.54	23	1.61	2.46	125	8.74	6.87
C74 / Adrenal gland		1	0.07	0.11	0	0.00	0.00	1	0.07	0.05
C75 / Endocrine Gland, other		4	0.28	0.45	2	0.14	0.21	6	0.42	0.33
C76 / Unspecified Site		0	0.00	0.00	1	0.07	0.11	1	0.07	0.05
C77 / Lymph nodes	Hodgkin Lymphoma	28	1.96	3.17	26	1.82	2.78	54	3.77	2.97
	Non-Hodgkin Lymphoma	44	3.07	4.98	59	4.12	6.32	103	7.20	5.66
C80 / Unknown Primary Site		8	0.56	0.90	3	0.21	0.32	11	0.77	0.60
Total		803	56.11	90.82	628	43.89	67.23	1,431	100.00	78.70

Babil
Populations Number : 2119403
Cancer Cases Number :1597
Incidence Rate: 75.35/100,000 Babil Populations

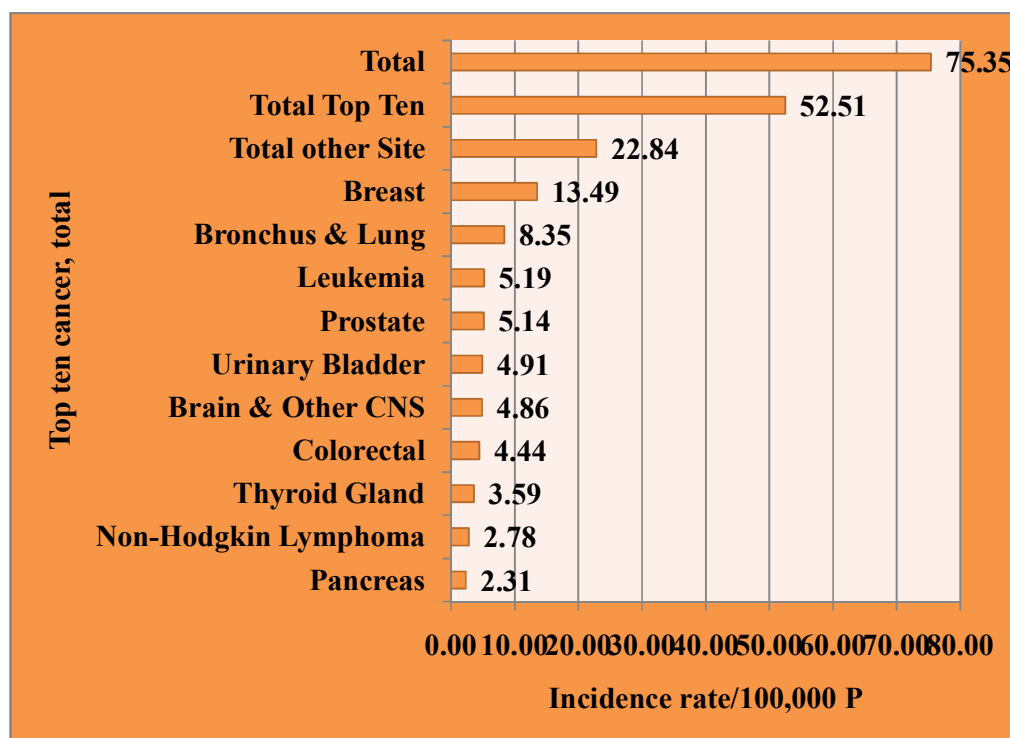


3.4.13. Babil governorate

Table No.; (66) Distribution of the top ten cancers in Babil, Iraq, 2019

Top Ten	Total	No.	%
1	Breast	286	17.91
2	Bronchus & Lung	177	11.08
3	Leukemia	110	6.89
4	Urinary Bladder	104	6.51
5	Brain & Other CNS	103	6.45
6	Colorectal	94	5.89
7	Thyroid Gland	76	4.76
8	Non-Hodgkin Lymphoma	59	3.69
9	Prostate	55	3.44
10	Pancreas	49	3.07
Total Top Ten		1,113	69.69
Total other Site		484	30.31
Total		1,597	100.00%

Figure No.; (50) Incidence rate of the top ten cancers in Babil /100,000 Babil populations, Iraq, 2019



The prostate incidence rate is calculated from the male population.

Table No.; (67) Distribution of the top ten cancers in Males, Babil, Iraq, 2019

Top Ten Male		No.	%
1	Bronchus & Lung	118	17.69
2	Urinary Bladder	74	11.09
3	Leukemia	59	8.85
4	Prostate	55	8.25
5	Brain & Other CNS	46	6.90
6	Colorectal	43	6.45
7	Non-Hodgkin Lymphoma	34	5.10
8	Skin, other	24	3.60
9	Kidney	22	3.30
10	Pancreas	21	3.15
Total Top Ten		496	74.36
Total other Site		171	25.64
Total		667	100.00%

Figure No.; (51) Incidence rate of the top ten cancers in males / 100,000 male populations, Babil, Iraq, 2019

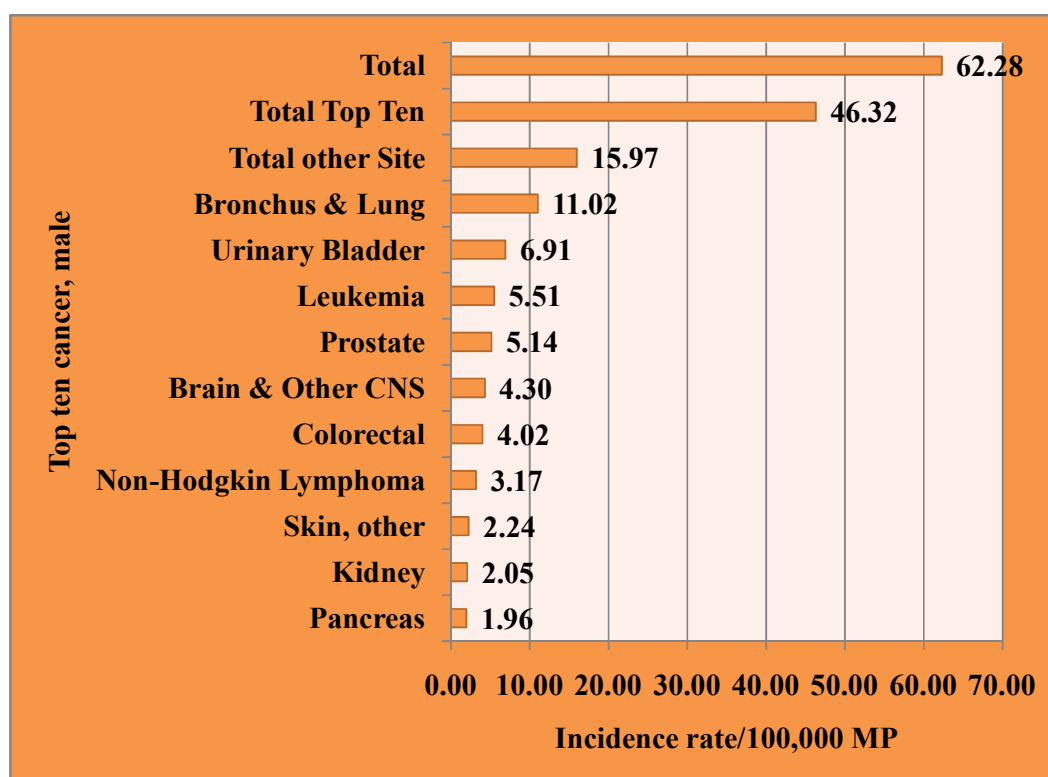
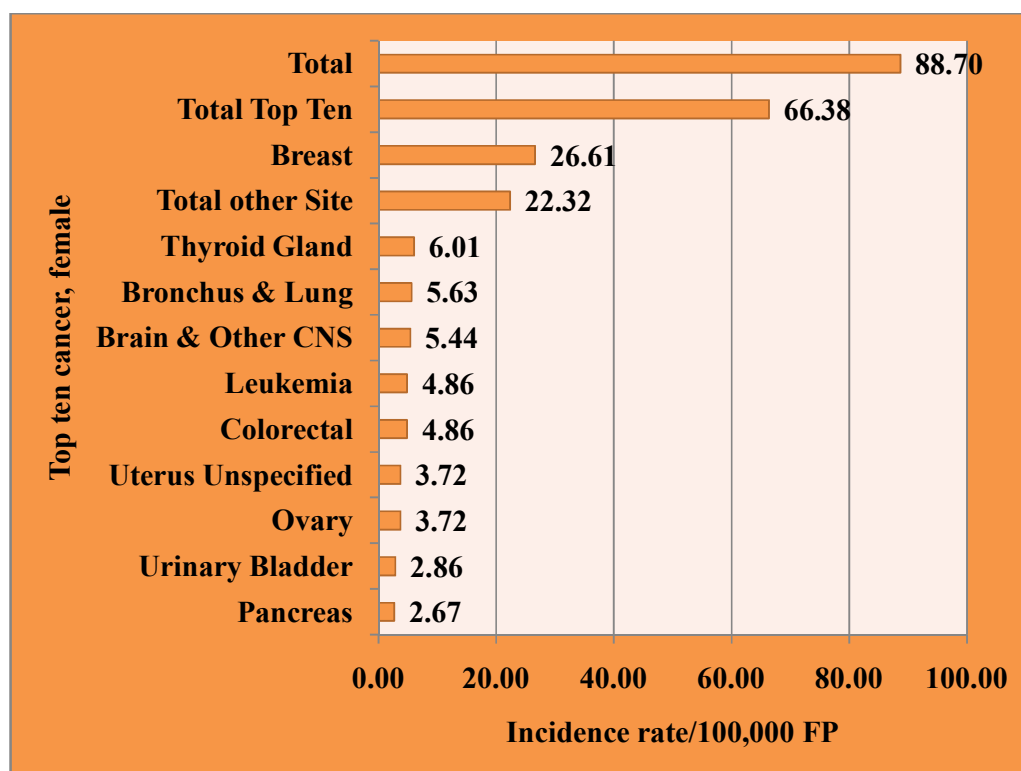


Table No.; (68) Distribution of the top ten cancers in females, Babil, Iraq, 2019

Top Ten Female		No.	%
1	Breast	279	30.00
2	Thyroid Gland	63	6.77
3	Bronchus & Lung	59	6.34
4	Brain & Other CNS	57	6.13
5	Colorectal	51	5.48
6	Leukemia	51	5.48
7	Ovary	39	4.19
8	Uterus Unspecified	39	4.19
9	Urinary Bladder	30	3.23
10	Pancreas	28	3.01
Total Top Ten		696	74.84
Total other Site		234	25.16
Total		930	100.00%

Figure No.; (52) Incidence rate of the top ten cancers in females / 100,000 female populations, Babil, Iraq, 2019

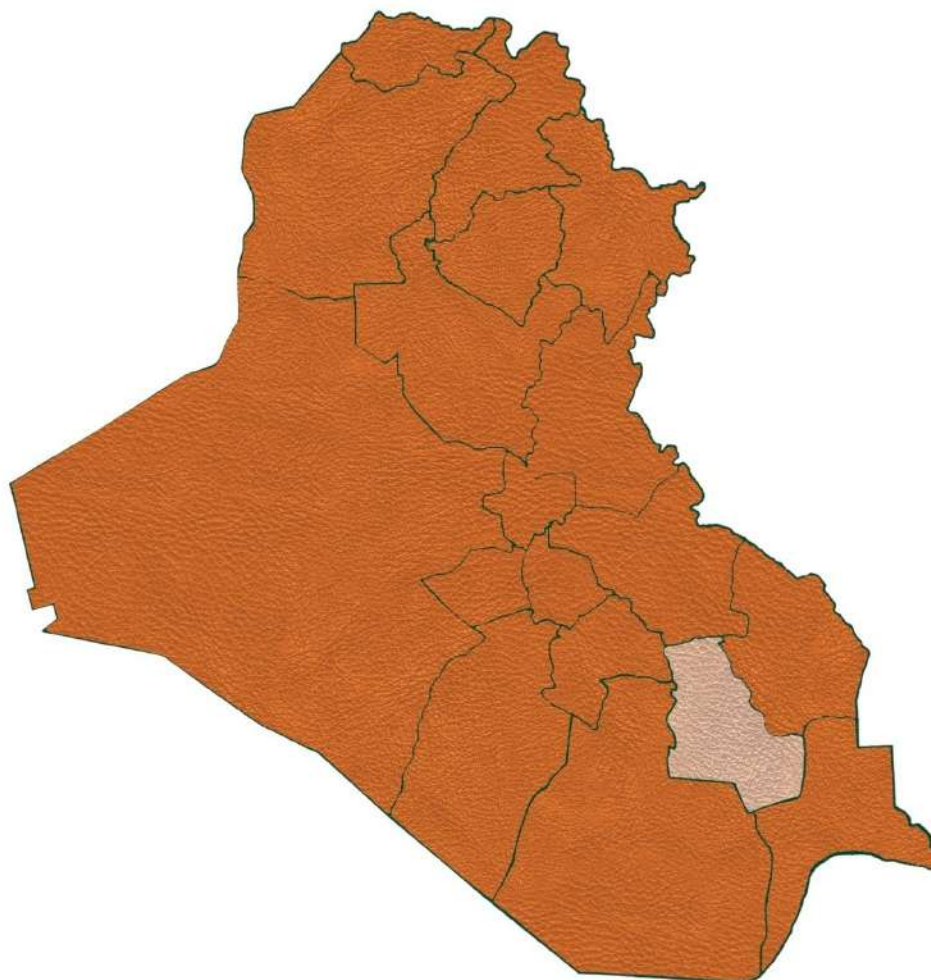


**Table No.; (69) Distribution and the incidence rate of cancer /100,000
populations by ICD-O, site, and gender in Babil, Iraq, 2019**

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip		1	0.06	0.10	0	0.00	0.00	1	0.06	0.05
C02 / Tongue, other		7	0.44	0.67	1	0.06	0.09	8	0.50	0.38
C05 / Mouth - Palate		0	0.00	0.00	1	0.06	0.09	1	0.06	0.05
C07 / Parotid Gland		4	0.25	0.38	0	0.00	0.00	4	0.25	0.19
C08 / Mouth Glands		5	0.31	0.48	0	0.00	0.00	5	0.31	0.24
C10 / Oropharynx		3	0.19	0.29	0	0.00	0.00	3	0.19	0.14
C11 / Nasopharynx		3	0.19	0.29	4	0.25	0.37	7	0.44	0.33
C14 / Pharynx		2	0.13	0.19	4	0.25	0.37	6	0.38	0.28
C15 / Esophagus		6	0.38	0.57	6	0.38	0.56	12	0.75	0.57
C16 / Stomach		23	1.44	2.19	20	1.25	1.87	43	2.69	2.03
C17 / Small intestine		3	0.19	0.29	1	0.06	0.09	4	0.25	0.19
C18 / Colon		40	2.50	3.81	30	1.88	2.80	70	4.38	3.30
C20 / Rectum		11	0.69	1.05	13	0.81	1.21	24	1.50	1.13
C21 / Anus & Anal Canal		0	0.00	0.00	2	0.13	0.19	2	0.13	0.09
C22 / Liver & Bile Ducts		14	0.88	1.34	20	1.25	1.87	34	2.13	1.60
C23 / Gallbladder		11	0.69	1.05	5	0.31	0.47	16	1.00	0.75
C24 / Biliary Tract , other		2	0.13	0.19	1	0.06	0.09	3	0.19	0.14
C25 / Pancreas		28	1.75	2.67	21	1.31	1.96	49	3.07	2.31
C30 / Nasal Cavity		1	0.06	0.10	4	0.25	0.37	5	0.31	0.24
C32 / Larynx		4	0.25	0.38	14	0.88	1.31	18	1.13	0.85
C33 / Trachea		0	0.00	0.00	1	0.06	0.09	1	0.06	0.05
C34 / Bronchus & Lung		59	3.69	5.63	118	7.39	11.02	177	11.08	8.35
C37 / Thymus		3	0.19	0.29	0	0.00	0.00	3	0.19	0.14
C38 / Heart, Mediastinum, Pleura		3	0.19	0.29	2	0.13	0.19	5	0.31	0.24
C40 / Bone & Cartilage, Limbs		2	0.13	0.19	2	0.13	0.19	4	0.25	0.19
C41 / Bones & Cartilage, other		8	0.50	0.76	8	0.50	0.75	16	1.00	0.75
C42 / Reticulo Endothelial & Hematopoietic System	Leukemia	51	3.19	4.86	59	3.69	5.51	110	6.89	5.19
	Plasma Cell Tumor	6	0.38	0.57	5	0.31	0.47	11	0.69	0.52
C44 / Skin, other		12	0.75	1.14	24	1.50	2.24	36	2.25	1.70
C47 /Nerves System		3	0.19	0.29	3	0.19	0.28	6	0.38	0.28
C48 / Peritoneum		0	0.00	0.00	1	0.06	0.09	1	0.06	0.05
C49 / Soft tissues		11	0.69	1.05	9	0.56	0.84	20	1.25	0.94

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C50 / Breast		279	17.47	26.61	7	0.44	0.65	286	17.91	13.49
C51 / Vulva		5	0.31	0.48	0	0.00	0.00	5	0.31	0.48
C52 / Vagina		1	0.06	0.10	0	0.00	0.00	1	0.06	0.10
C53 / Cervix Uteri		10	0.63	0.95	0	0.00	0.00	10	0.63	0.95
C54 / Corpus Uteri		13	0.81	1.24	0	0.00	0.00	13	0.81	1.24
C55 / Uterus Unspecified		39	2.44	3.72	0	0.00	0.00	39	2.44	3.72
C56 / Ovary		39	2.44	3.72	0	0.00	0.00	39	2.44	3.72
C59 / Placenta		2	0.13	0.19	0	0.00	0.00	2	0.13	0.19
C61 / Prostate		0	0.00	0.00	55	3.44	5.14	55	3.44	5.14
C62 / Testis		0	0.00	0.00	10	0.63	0.93	10	0.63	0.93
C64 / Kidney		17	1.06	1.62	22	1.38	2.05	39	2.44	1.84
C65 / Pelvis		1	0.06	0.10	1	0.06	0.09	2	0.13	0.09
C66 / Ureter		1	0.06	0.10	0	0.00	0.00	1	0.06	0.05
C67 / Urinary Bladder		30	1.88	2.86	74	4.63	6.91	104	6.51	4.91
C69 / Eye & Adnexa		1	0.06	0.10	4	0.25	0.37	5	0.31	0.24
C70 / Meninges		6	0.38	0.57	5	0.31	0.47	11	0.69	0.52
C71 / Brain		45	2.82	4.29	36	2.25	3.36	81	5.07	3.82
C72 / Nervous System, Other		3	0.19	0.29	0	0.00	0.00	3	0.19	0.14
C73 / Thyroid Gland		63	3.94	6.01	13	0.81	1.21	76	4.76	3.59
C74 / Adrenal gland		3	0.19	0.29	1	0.06	0.09	4	0.25	0.19
C75 / Endocrine Gland, other		3	0.19	0.29	5	0.31	0.47	8	0.50	0.38
C76 / Unspecified Site		2	0.13	0.19	2	0.13	0.19	4	0.25	0.19
C77 / Lymph nodes	Hodgkin Lymphoma	13	0.81	1.24	12	0.75	1.12	25	1.57	1.18
	Non-Hodgkin Lymphoma	25	1.57	2.38	34	2.13	3.17	59	3.69	2.78
C80 / Unknown Primary Site		3	0.19	0.29	7	0.44	0.65	10	0.63	0.47
Total		930	58.23	88.70	667	41.77	62.28	1,597	100.00	75.35

ThiQar
Populations Number : 2150338
Cancer Cases Number : 1602
Incidence Rate:74.50/100,000 ThiQarPopulations



3.4.14. ThiQar governorate

Table No.; (70) Distribution of the top ten cancers, ThiQar, Iraq, 2019

Top Ten Total		No.	%
1	Breast	218	13.61
2	Bronchus & Lung	210	13.11
3	Brain & Other CNS	146	9.11
4	Urinary Bladder	111	6.93
5	Leukemia	106	6.62
6	Non-Hodgkin Lymphoma	95	5.93
7	Colorectal	74	4.62
8	Thyroid Gland	70	4.37
9	Pancreas	52	3.25
10	Liver	44	2.75
Total Top Ten		1,126	70.29
Total other Site		476	29.71
Total		1,602	100.00%

Figure No.; (53) Incidence rate of the top ten cancers in ThiQar /100,000 ThiQar populations, Iraq, 2019

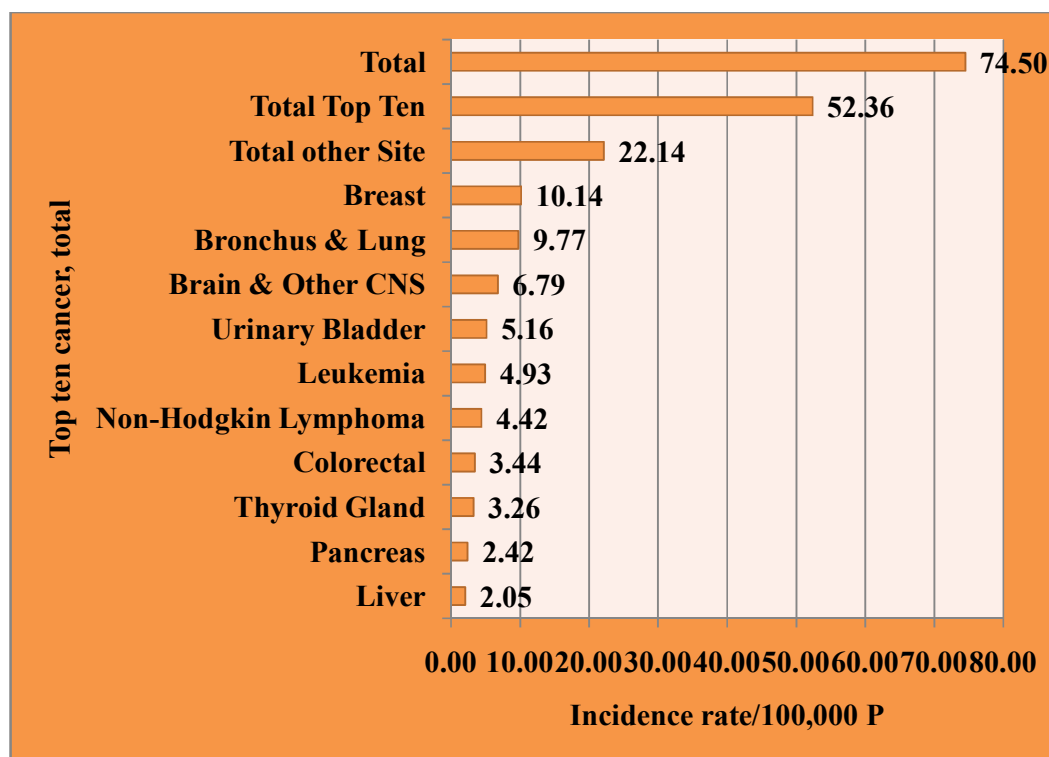


Table No.; (71) Distribution of the top ten cancers in males, ThiQar, Iraq, 2019

Top Ten Male		No.	%
1	Bronchus & Lung	147	20.05
2	Urinary Bladder	70	9.55
3	Brain & Other CNS	65	8.87
4	Leukemia	59	8.05
5	Non-Hodgkin Lymphoma	53	7.23
6	Prostate	36	4.91
7	Colorectal	30	4.09
8	Pancreas	28	3.82
9	Kidney	25	3.41
10	Liver	20	2.73
Total Top Ten		533	72.71
Total other Site		200	27.29
Total		733	100.00%

Figure No.; (54) Incidence rate of the top ten cancers in males / 100,000 male populations, ThiQar, Iraq, 2019

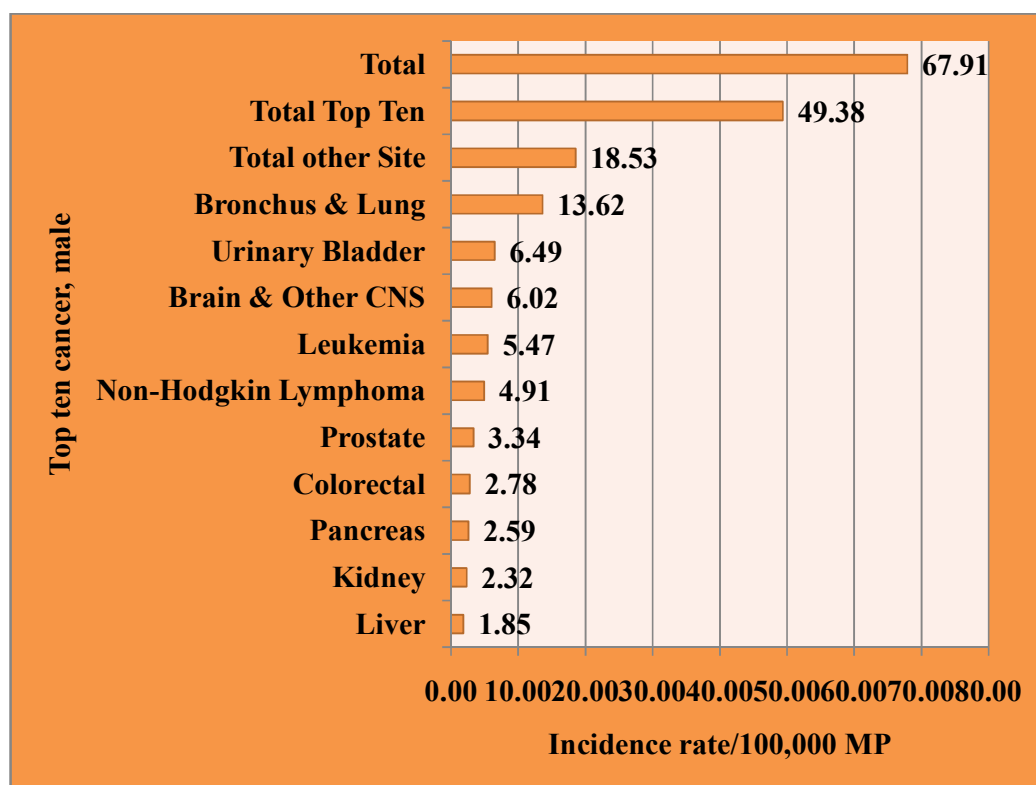
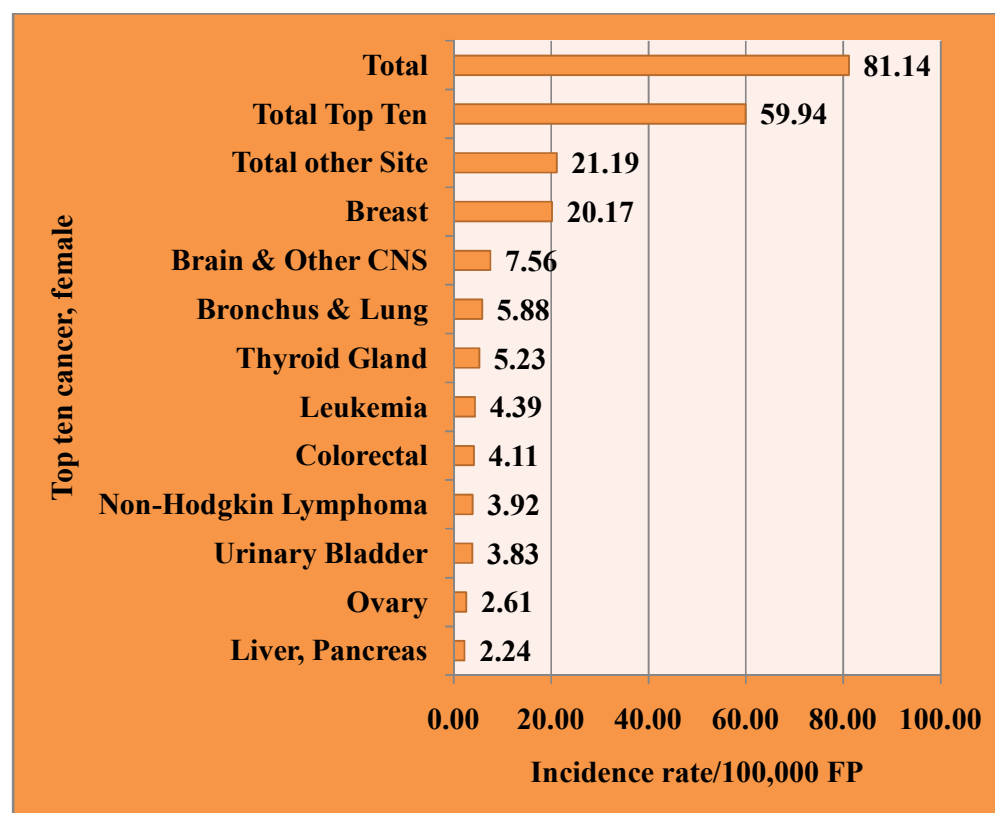


Table No.; (72) Distribution of the top ten cancers in females, ThiQar, Iraq, 2019

Top Ten Female		No.	%
1	Breast	216	24.86
2	Brain & Other CNS	81	9.32
3	Bronchus & Lung	63	7.25
4	Thyroid Gland	56	6.44
5	Leukemia	47	5.41
6	Colorectal	44	5.06
7	Non-Hodgkin Lymphoma	42	4.83
8	Urinary Bladder	41	4.72
9	Ovary	28	3.22
10	Liver, Pancreas	24	2.76
Total Top Ten		642	73.88
Total other Site		227	26.12
Total		869	100.00%

Figure No.; (55) Incidence rate of the top ten cancers in females / 100,000 female populations, ThiQar, Iraq, 2019

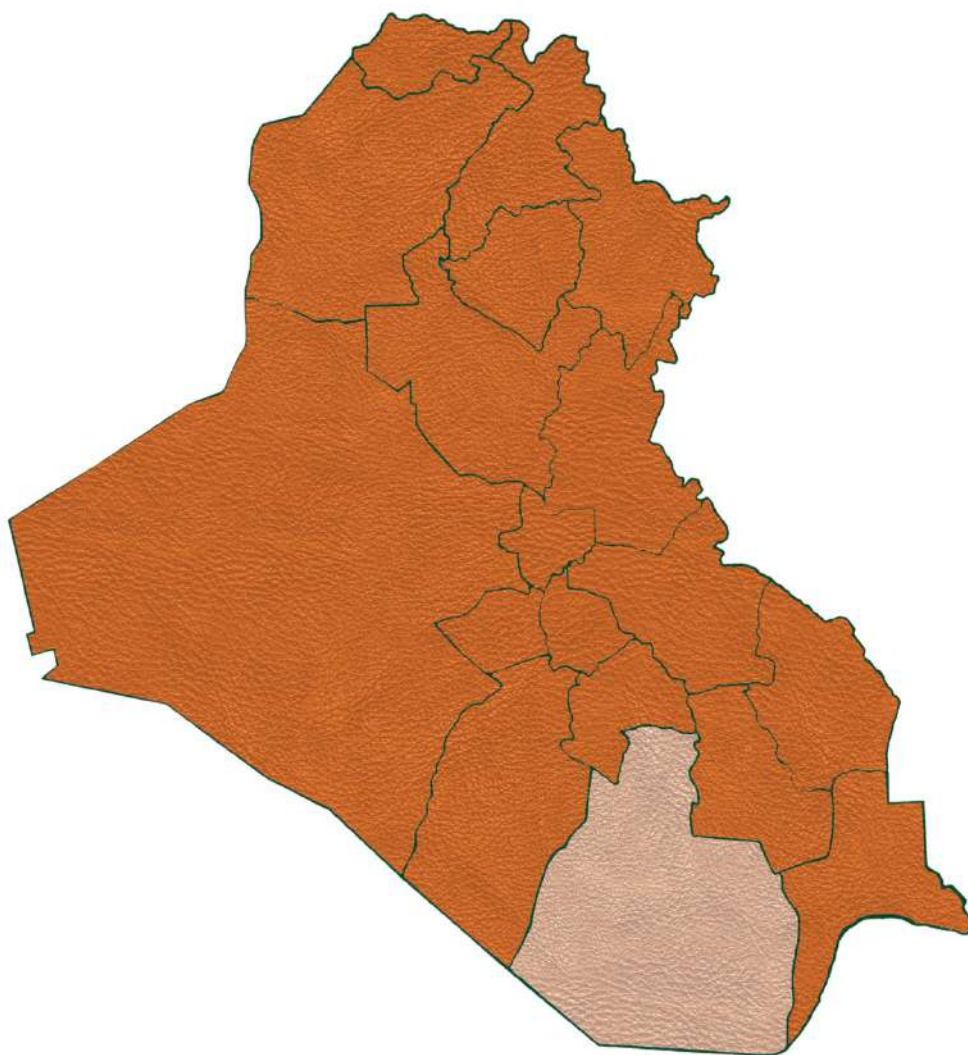


**Table No.; (73) Distribution and the incidence rate of cancer /100,000
populations by ICD-O, site, and gender in ThiQar, Iraq, 2019**

ICD-O code / Site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip	1	0.06	0.09	0	0.00	0.00	1	0.06	0.05
C01 / Tongue, Base	3	0.19	0.28	1	0.06	0.09	4	0.25	0.19
C02 / Tongue, other	11	0.69	1.03	10	0.62	0.93	21	1.31	0.98
C04 / Mouth - Floor	1	0.06	0.09	0	0.00	0.00	1	0.06	0.05
C05 / Mouth - Palate	0	0.00	0.00	1	0.06	0.09	1	0.06	0.05
C06 / Mouth - other	2	0.12	0.19	1	0.06	0.09	3	0.19	0.14
C07 / Parotid Gland	1	0.06	0.09	1	0.06	0.09	2	0.12	0.09
C08 / Mouth Glands	0	0.00	0.00	1	0.06	0.09	1	0.06	0.05
C11 / Nasopharynx	6	0.37	0.56	9	0.56	0.83	15	0.94	0.70
C13 / Hypopharynx	1	0.06	0.09	1	0.06	0.09	2	0.12	0.09
C14 / Pharynx	0	0.00	0.00	2	0.12	0.19	2	0.12	0.09
C15 / Esophagus	4	0.25	0.37	3	0.19	0.28	7	0.44	0.33
C16 / Stomach	22	1.37	2.05	16	1.00	1.48	38	2.37	1.77
C17 / Small intestine	7	0.44	0.65	5	0.31	0.46	12	0.75	0.56
C18 / Colon	29	1.81	2.71	20	1.25	1.85	49	3.06	2.28
C19 / Recto sigmoid Junction	1	0.06	0.09	2	0.12	0.19	3	0.19	0.14
C20 / Rectum	14	0.87	1.31	8	0.50	0.74	22	1.37	1.02
C22 / Liver & Bile Ducts	24	1.50	2.24	20	1.25	1.85	44	2.75	2.05
C23 / Gallbladder	6	0.37	0.56	2	0.12	0.19	8	0.50	0.37
C24 / Biliary Tract , other	8	0.50	0.75	4	0.25	0.37	12	0.75	0.56
C25 / Pancreas	24	1.50	2.24	28	1.75	2.59	52	3.25	2.42
C26 / Other Digestive organs	0	0.00	0.00	2	0.12	0.19	2	0.12	0.09
C30 / Nasal Cavity	0	0.00	0.00	1	0.06	0.09	1	0.06	0.05
C32 / Larynx	2	0.12	0.19	15	0.94	1.39	17	1.06	0.79
C34 / Bronchus & Lung	63	3.93	5.88	147	9.18	13.62	210	13.11	9.77
C37 / Thymus	0	0.00	0.00	1	0.06	0.09	1	0.06	0.05
C38 / Heart, Mediastinum, Pleura	1	0.06	0.09	1	0.06	0.09	2	0.12	0.09
C39 / Other Respiratory & Thoracic	1	0.06	0.09	0	0.00	0.00	1	0.06	0.05
C40 / Bone & Cartilage, Limbs	3	0.19	0.28	12	0.75	1.11	15	0.94	0.70
C41 / Bones & Cartilage, other	6	0.37	0.56	9	0.56	0.83	15	0.94	0.70
C42 / Reticulo Endothelial & Hematopoietic System									
Chronic Myelo proliferative Disorders	1	0.06	0.09	0	0.00	0.00	1	0.06	0.05
Leukemia	47	2.93	4.39	59	3.68	5.47	106	6.62	4.93

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C42 / Reticulo Endothelial & Hematopoietic System	Myelo Dysplastic Syndromes	2	0.12	0.19	0	0.00	0.00	2	0.12	0.09
	Plasma Cell Tumor	9	0.56	0.84	18	1.12	1.67	27	1.69	1.26
C44 / Skin, other		4	0.25	0.37	9	0.56	0.83	13	0.81	0.60
C48 / Peritoneum		3	0.19	0.28	2	0.12	0.19	5	0.31	0.23
C49 / soft tissues		2	0.12	0.19	5	0.31	0.46	7	0.44	0.33
C50 / Breast		216	13.48	20.17	2	0.12	0.19	218	13.61	10.14
C51 / Vulva		3	0.19	0.28	0	0.00	0.00	3	0.19	0.28
C52 / Vagina		1	0.06	0.09	0	0.00	0.00	1	0.06	0.09
C53 / Cervix Uteri		13	0.81	1.21	0	0.00	0.00	13	0.81	1.21
C54 / Corpus Uteri		10	0.62	0.93	0	0.00	0.00	10	0.62	0.93
C55 / Uterus Unspecified		23	1.44	2.15	0	0.00	0.00	23	1.44	2.15
C56 / Ovary		28	1.75	2.61	0	0.00	0.00	28	1.75	2.61
C59 / Placenta		5	0.31	0.47	0	0.00	0.00	5	0.31	0.47
C61 / Prostate		0	0.00	0.00	36	2.25	3.34	36	2.25	3.34
C62 / Testis		0	0.00	0.00	9	0.56	0.83	9	0.56	0.83
C63 / Male genital, other		0	0.00	0.00	2	0.12	0.19	2	0.12	0.09
C64 / Kidney		13	0.81	1.21	25	1.56	2.32	38	2.37	1.77
C65 / Pelvis		4	0.25	0.37	2	0.12	0.19	6	0.37	0.28
C67 / Urinary Bladder		41	2.56	3.83	70	4.37	6.49	111	6.93	5.16
C68 / Urinary organs, other		1	0.06	0.09	4	0.25	0.37	5	0.31	0.23
C69 / Eye & Adnexa		3	0.19	0.28	6	0.37	0.56	9	0.56	0.42
C70 / Meninges		10	0.62	0.93	4	0.25	0.37	14	0.87	0.65
C71 / Brain		66	4.12	6.16	53	3.31	4.91	119	7.43	5.53
C72 / Nervous System, other		4	0.25	0.37	5	0.31	0.46	9	0.56	0.42
C73 / Thyroid Gland		56	3.50	5.23	14	0.87	1.30	70	4.37	3.26
C74 / Adrenal gland		4	0.25	0.37	2	0.12	0.19	6	0.37	0.28
C75 / Endocrine Gland, other		1	0.06	0.09	3	0.19	0.28	4	0.25	0.19
C76 / Unspecified Site		2	0.12	0.19	1	0.06	0.09	3	0.19	0.14
C77 / Lymph nodes	Hodgkin Lymphoma	6	0.37	0.56	19	1.19	1.76	25	1.56	1.16
	Non-Hodgkin Lymphoma	42	2.62	3.92	53	3.31	4.91	95	5.93	4.42
C80 / Unknown Primary Site		8	0.50	0.75	7	0.44	0.65	15	0.94	0.70
Total		869	54.24	81.14	733	45.76	67.91	1,602	100.00	74.50

Al-Muthana
Populations Number : 835797
Cancer Cases Number :617
Incidence Rate: 73.82/100,000 Al-Muthana Populations

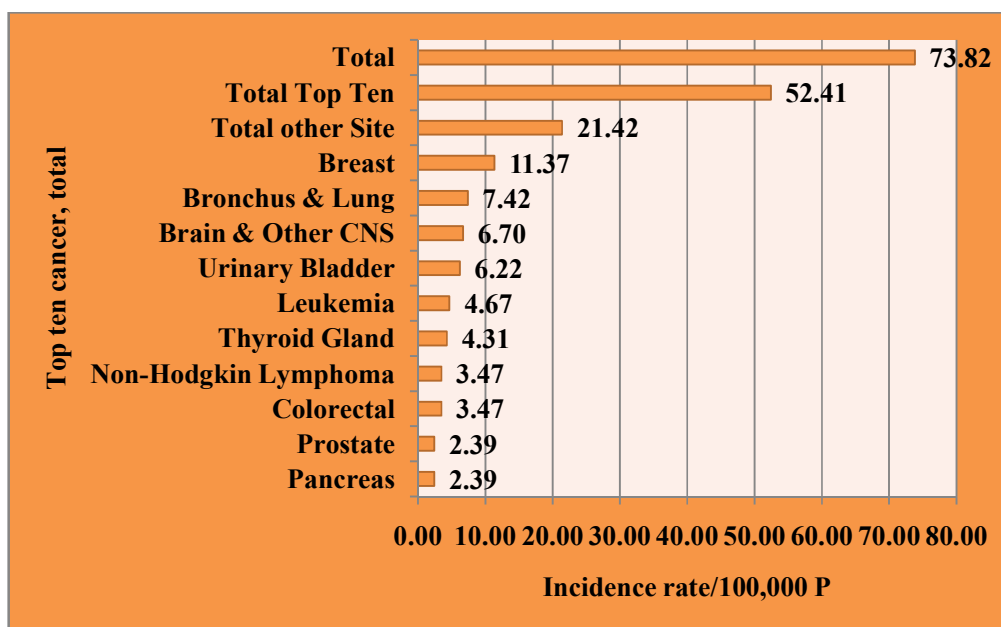


3.4.15. Al-Muthana governorate

Table No.; (74) Distribution of the top ten cancers in Al-Muthana, Iraq, 2019

Top Ten Total		No.	%
1	Breast	95	15.40
2	Bronchus & Lung	62	10.05
3	Brain & Other CNS	56	9.08
4	Urinary Bladder	52	8.43
5	Leukemia	39	6.32
6	Thyroid Gland	36	5.83
7	Colorectal	29	4.70
8	Non-Hodgkin Lymphoma	29	4.70
9	Pancreas	20	3.24
10	Prostate	20	3.24
Total Top Ten		438	70.99
Total other Site		179	29.01
Total		617	100.00%

Figure No.; (56) Incidence rate of the top ten cancers in Al-Muthana /100,000 Al-Muthana populations, Iraq, 2019



The prostate incidence rate is calculated from the male populations.

Table No.; (75) Distribution of the top ten cancers in males, Al-Muthana, Iraq, 2019

Top Ten Male		No.	%
1	Bronchus & Lung	42	14.53
2	Urinary Bladder	41	14.19
3	Brain & Other CNS	31	10.73
4	Prostate	20	6.92
5	Leukemia	19	6.57
6	Non-Hodgkin Lymphoma	15	5.19
7	Colorectal	14	4.84
8	Kidney	11	3.81
9	Pancreas	11	3.81
10	Hodgkin Lymphomas	9	3.11
Total Top Ten		213	73.70
Total other Site		76	26.30
Total		289	100.00%

Figure No.; (57) Incidence rate of the top ten cancers in males / 100,000 male populations, Al-Muthana, Iraq, 2019

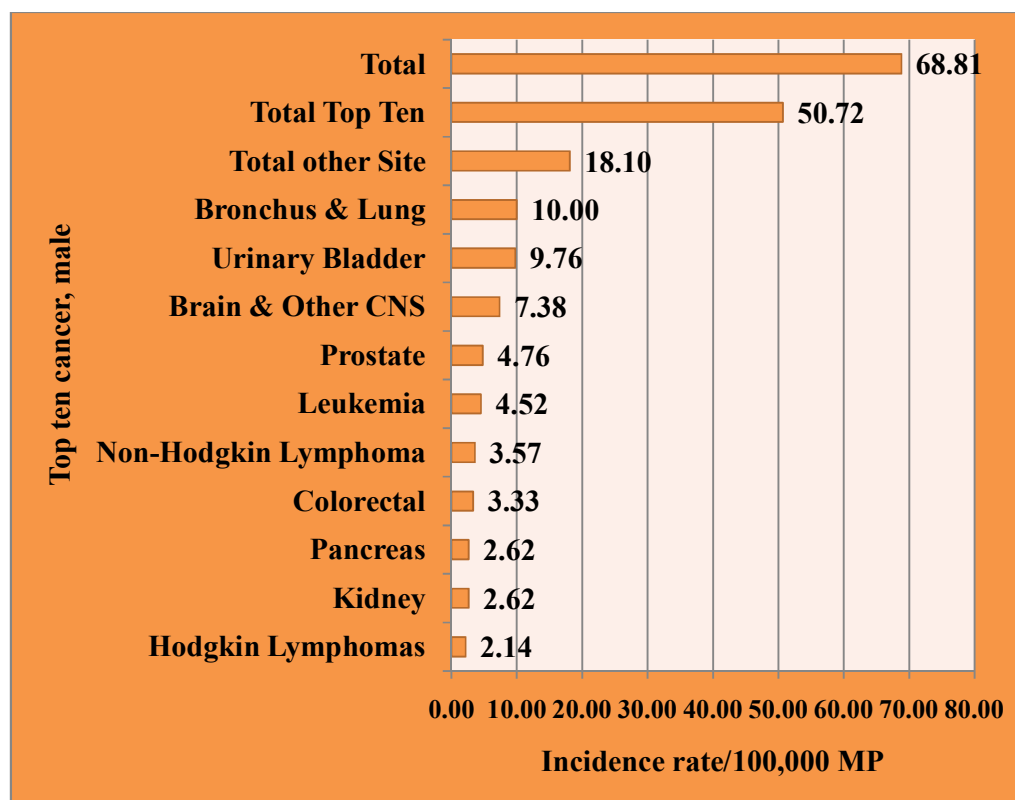
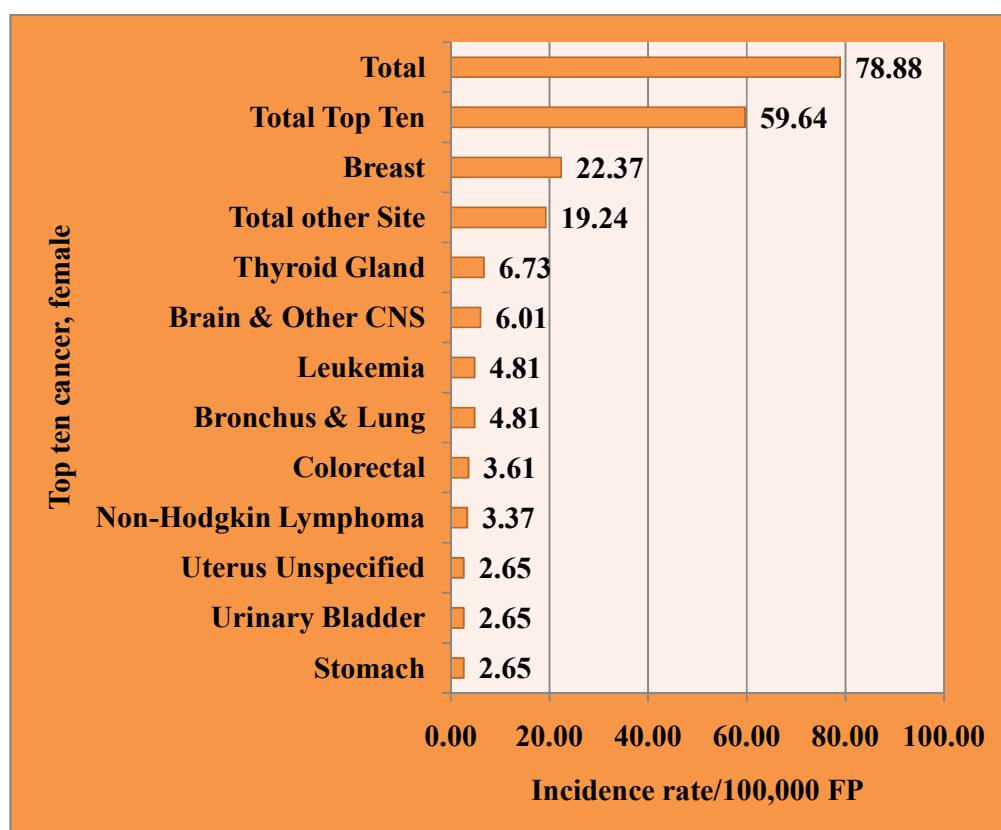


Table No.; (76) Distribution of the top ten cancers in females, Al-Muthana, Iraq, 2019

Top Ten Female		No.	%
1	Breast	93	28.35
2	Thyroid Gland	28	8.54
3	Brain & Other CNS	25	7.62
4	Bronchus & Lung	20	6.10
5	Leukemia	20	6.10
6	Colorectal	15	4.57
7	Non-Hodgkin Lymphoma	14	4.27
8	Stomach	11	3.35
9	Urinary Bladder	11	3.35
10	Uterus Unspecified	11	3.35
Total Top Ten		248	75.61
Total other Site		80	24.39
Total		328	100.00%

Figure No.; (58) Incidence rate of the top ten cancers in females / 100,000 female populations, Al-Muthana, Iraq, 2019



**Table No.; (77) Distribution and the incidence rate of cancer /100,000
populations by ICD-O, site, and gender in Al-Muthana, Iraq, 2019**

ICD-O code / Site of tumor	Female			Male			Total			
	No.	%	IR	No.	%	IR	No.	%	IR	
C02 / Tongue, other	1	0.16	0.24	0	0.00	0.00	1	0.16	0.12	
C03 / Gum	0	0.00	0.00	1	0.16	0.24	1	0.16	0.12	
C04 / Mouth - Floor	1	0.16	0.24	0	0.00	0.00	1	0.16	0.12	
C08 / Mouth Glands	1	0.16	0.24	0	0.00	0.00	1	0.16	0.12	
C09 / Tonsil	0	0.00	0.00	1	0.16	0.24	1	0.16	0.12	
C11 / Nasopharynx	1	0.16	0.24	1	0.16	0.24	2	0.32	0.24	
C13 / Hypopharynx	0	0.00	0.00	3	0.49	0.71	3	0.49	0.36	
C14 / Pharynx	0	0.00	0.00	2	0.32	0.48	2	0.32	0.24	
C15 / Esophagus	4	0.65	0.96	1	0.16	0.24	5	0.81	0.60	
C16 / Stomach	11	1.78	2.65	6	0.97	1.43	17	2.76	2.03	
C17 / Small intestine	0	0.00	0.00	4	0.65	0.95	4	0.65	0.48	
C18 / Colon	11	1.78	2.65	10	1.62	2.38	21	3.40	2.51	
C19 / Recto sigmoid Junction	0	0.00	0.00	2	0.32	0.48	2	0.32	0.24	
C20 / Rectum	4	0.65	0.96	2	0.32	0.48	6	0.97	0.72	
C21 / Anus & Anal Canal	1	0.16	0.24	1	0.16	0.24	2	0.32	0.24	
C22 / Liver & Bile Ducts	3	0.49	0.72	6	0.97	1.43	9	1.46	1.08	
C24 / Biliary Tract , other	3	0.49	0.72	0	0.00	0.00	3	0.49	0.36	
C25 / Pancreas	9	1.46	2.16	11	1.78	2.62	20	3.24	2.39	
C26 / Other Digestive organs	2	0.32	0.48	1	0.16	0.24	3	0.49	0.36	
C31 / Accessory Sinus	0	0.00	0.00	1	0.16	0.24	1	0.16	0.12	
C32 / Larynx	3	0.49	0.72	6	0.97	1.43	9	1.46	1.08	
C34 / Bronchus & Lung	20	3.24	4.81	42	6.81	10.00	62	10.05	7.42	
C37 / Thymus	0	0.00	0.00	1	0.16	0.24	1	0.16	0.12	
C38 / Heart, Mediastinum, Pleura	1	0.16	0.24	2	0.32	0.48	3	0.49	0.36	
C40 / Bone & Cartilage, Limbs	4	0.65	0.96	3	0.49	0.71	7	1.13	0.84	
C41 / Bones & Cartilage, other	4	0.65	0.96	2	0.32	0.48	6	0.97	0.72	
C42 / Leukemia	20	3.24	4.81	19	3.08	4.52	39	6.32	4.67	
C42 / Reticulo Endothelial & Hemato poietic System	Plasma Cell Tumor	0	0.00	0.00	1	0.16	0.24	1	0.16	0.12
C44 / Skin, other	8	1.30	1.92	7	1.13	1.67	15	2.43	1.79	
C47 /Nerves System	0	0.00	0.00	1	0.16	0.24	1	0.16	0.12	
C48 / Peritoneum	0	0.00	0.00	1	0.16	0.24	1	0.16	0.12	
C49 / Soft tissues	2	0.32	0.48	5	0.81	1.19	7	1.13	0.84	
C50 / Breast	93	15.07	22.37	2	0.32	0.48	95	15.40	11.37	
C52 / Vagina	2	0.32	0.48	0	0.00	0.00	2	0.32	0.48	
C54 / Corpus Uteri	7	1.13	1.68	0	0.00	0.00	7	1.13	1.68	
C55 / Uterus Unspecified	11	1.78	2.65	0	0.00	0.00	11	1.78	2.65	

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C56 / Ovary		9	1.46	2.16	0	0.00	0.00	9	1.46	2.16
C59 / Placenta		1	0.16	0.24	0	0.00	0.00	1	0.16	0.24
C61 / Prostate		0	0.00	0.00	20	3.24	4.76	20	3.24	4.76
C62 / Testis		0	0.00	0.00	4	0.65	0.95	4	0.65	0.95
C64 / Kidney		4	0.65	0.96	11	1.78	2.62	15	2.43	1.79
C67 / Urinary Bladder		11	1.78	2.65	41	6.65	9.76	52	8.43	6.22
C69 / Eye & Adnexa		4	0.65	0.96	1	0.16	0.24	5	0.81	0.60
C70 / Meninges		1	0.16	0.24	1	0.16	0.24	2	0.32	0.24
C71 / Brain		18	2.92	4.33	28	4.54	6.67	46	7.46	5.50
C72 / Nervous System, other		3	0.49	0.72	1	0.16	0.24	4	0.65	0.48
C73 / Thyroid Gland		28	4.54	6.73	8	1.30	1.90	36	5.83	4.31
C74 / Adrenal gland		1	0.16	0.24	0	0.00	0.00	1	0.16	0.12
C75 / Endocrine Gland, other		3	0.49	0.72	1	0.16	0.24	4	0.65	0.48
C76 / Unspecified Site		1	0.16	0.24	2	0.32	0.48	3	0.49	0.36
C77 / Lymph nodes	Hodgkin Lymphoma	1	0.16	0.24	9	1.46	2.14	10	1.62	1.20
	Non-Hodgkin Lymphoma	14	2.27	3.37	15	2.43	3.57	29	4.70	3.47
C80 / Unknown Primary Site		2	0.32	0.48	2	0.32	0.48	4	0.65	0.48
Total		328	53.16	78.88	289	46.84	68.81	617	100.00	73.82

Kirkuk
Populations Number : 1639953
Cancer Cases Number : 1195
Incidence Rate:72.87/100,000 Kirkuk Populations

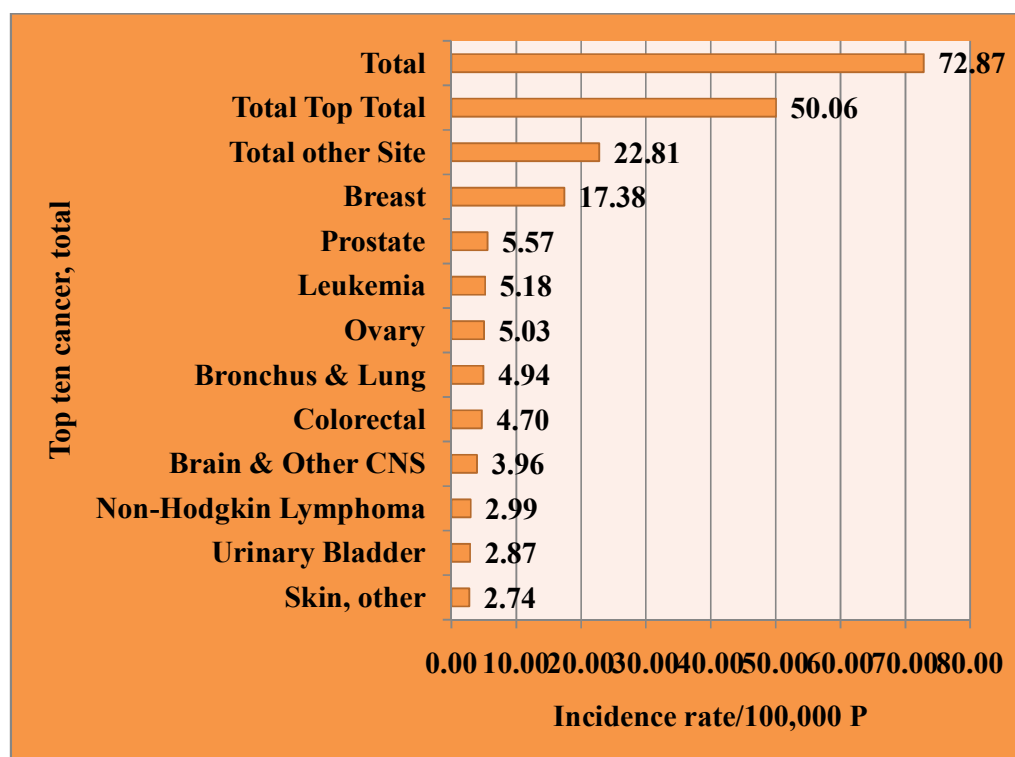


3.4.16. Kirkuk governorate

Table No.; (78) Distribution of the top ten cancers in Kirkuk, Iraq, 2019

Top Ten Total		No.	%
1	Breast	285	23.85
2	Leukemia	85	7.11
3	Bronchus & Lung	81	6.78
4	Colorectal	77	6.44
5	Brain & Other CNS	65	5.44
6	Non-Hodgkin Lymphoma	49	4.10
7	Urinary Bladder	47	3.93
8	Prostate	46	3.85
9	Skin, other	45	3.77
10	Ovary	41	3.43
Total Top Ten		821	68.70
Total other Site		374	31.30
Total		1,195	100.00%

Figure No.; (59) Incidence rate of the top ten cancers in Kirkuk /100,000
Kirkuk populations, Iraq, 2019



The prostate incidence rate is calculated from the male population.

Table No.; (79) Distribution of the top ten cancers in males, Kirkuk, Iraq, 2019

Top Ten Male		No.	%
1	Bronchus & Lung	53	10.97
2	Leukemia	47	9.73
3	Prostate	46	9.52
4	Brain & Other CNS	41	8.49
5	Colorectal	41	8.49
6	Urinary Bladder	35	7.25
7	Non-Hodgkin Lymphoma	30	6.21
8	Kidney	24	4.97
9	Skin, other	21	4.35
10	Pancreas	18	3.73
Total Top Ten		356	73.71
Total other Site		127	26.29
Total		483	100.00%

Figure No.; (60) Incidence rate of the top ten cancers in males / 100,000 male populations, Kirkuk, Iraq, 2019

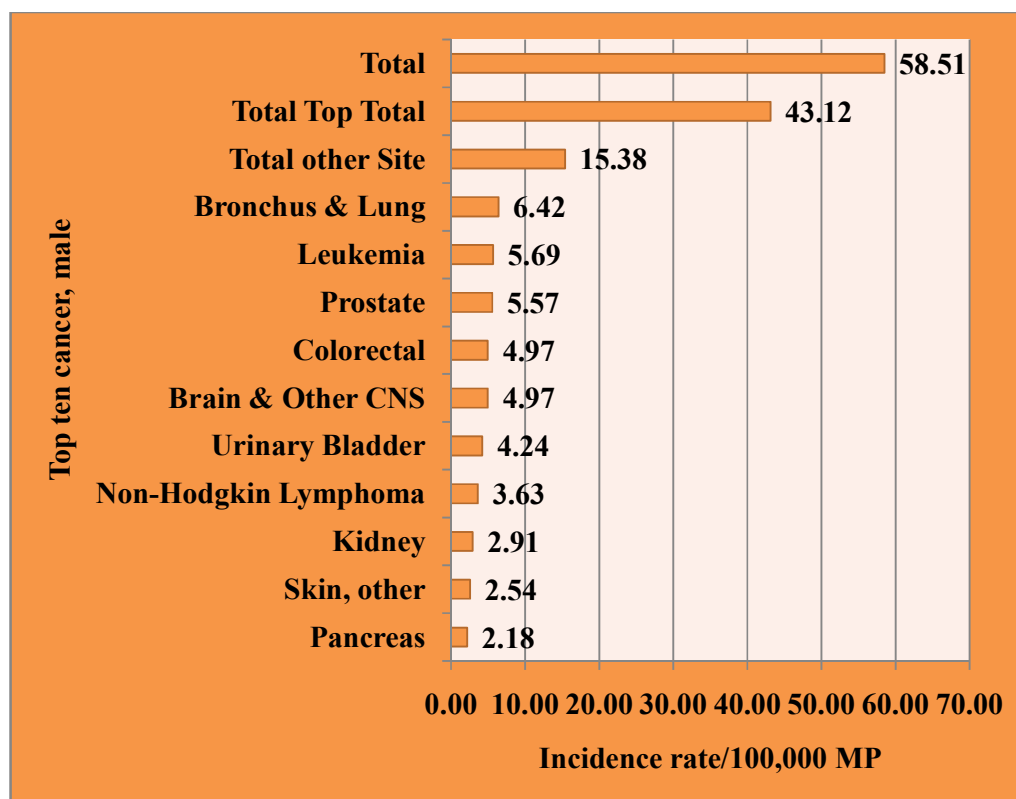
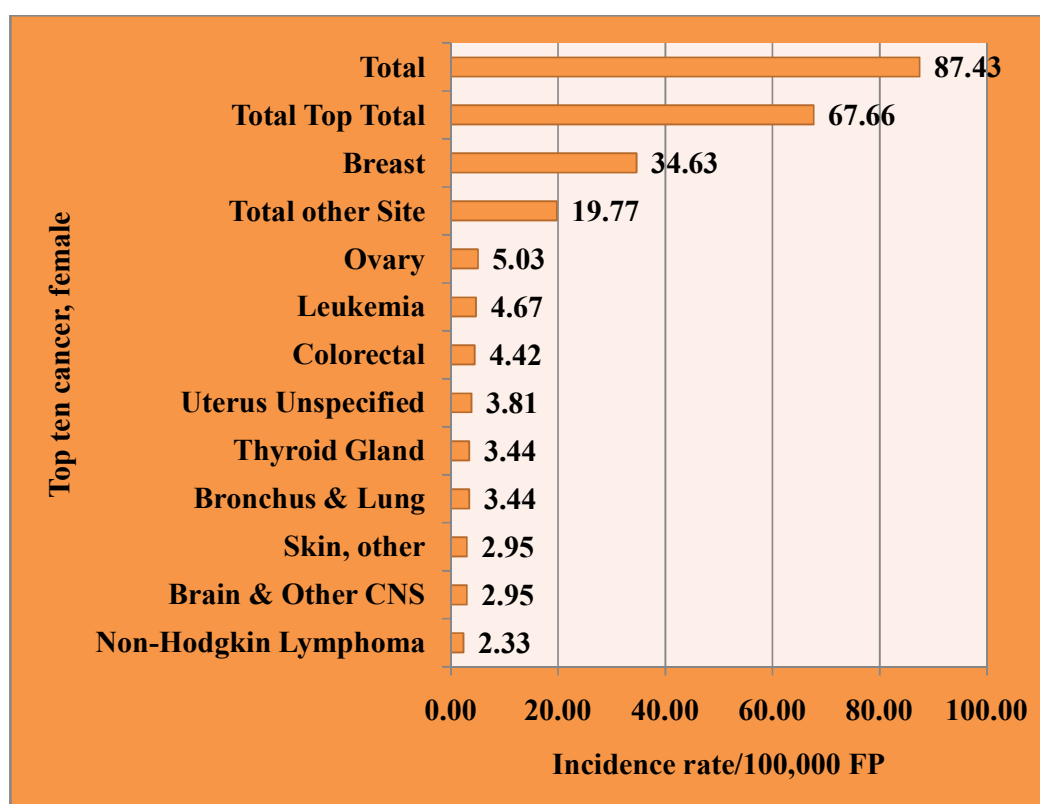


Table No.; (80) Distribution of the top ten cancers in females, Kirkuk, Iraq, 2019

Top Ten Female		No.	%
1	Breast	282	39.61
2	Ovary	41	5.76
3	Leukemia	38	5.34
4	Colorectal	36	5.06
5	Uterus Unspecified	31	4.35
6	Bronchus & Lung	28	3.93
7	Thyroid Gland	28	3.93
8	Brain & Other CNS	24	3.37
9	Skin, other	24	3.37
10	Non-Hodgkin Lymphoma	19	2.67
Total Top Ten		551	77.39
Total other Site		161	22.61
Total		712	100.00%

Figure No.; (61) Incidence rate of the top ten cancers in females / 100,000 female populations, Kirkuk, Iraq, 2019

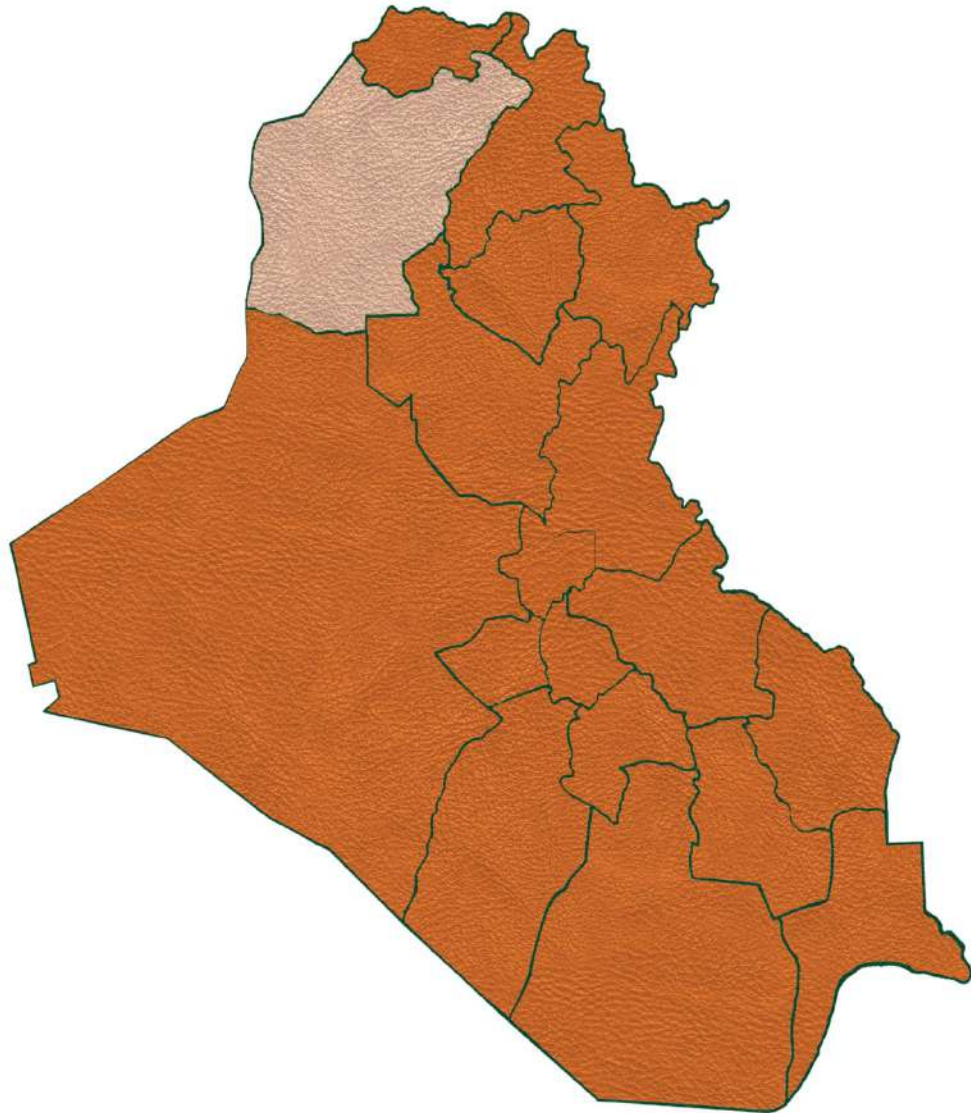


**Table No.; (81) Distribution and the incidence rate of cancer /100,000
populations by ICD-O, site, and gender in Kirkuk, Iraq, 2019**

ICD-O code / Site of tumor	Female			Male			Total			
	No.	%	IR	No.	%	IR	No.	%	IR	
C00 / Lip	0	0.00	0.00	2	0.17	0.24	2	0.17	0.12	
C02 / Tongue, other	2	0.17	0.25	4	0.33	0.48	6	0.50	0.37	
C04 / Mouth - Floor	0	0.00	0.00	1	0.08	0.12	1	0.08	0.06	
C05 / Mouth - Palate	3	0.25	0.37	0	0.00	0.00	3	0.25	0.18	
C07 / Parotid Gland	3	0.25	0.37	3	0.25	0.36	6	0.50	0.37	
C11 / Nasopharynx	2	0.17	0.25	2	0.17	0.24	4	0.33	0.24	
C13 / Hypopharynx	2	0.17	0.25	1	0.08	0.12	3	0.25	0.18	
C14 / Pharynx	0	0.00	0.00	2	0.17	0.24	2	0.17	0.12	
C15 / Esophagus	3	0.25	0.37	6	0.50	0.73	9	0.75	0.55	
C16 / Stomach	15	1.26	1.84	11	0.92	1.33	26	2.18	1.59	
C17 / Small intestine	3	0.25	0.37	5	0.42	0.61	8	0.67	0.49	
C18 / Colon	17	1.42	2.09	25	2.09	3.03	42	3.51	2.56	
C19 / Recto sigmoid Junction	2	0.17	0.25	1	0.08	0.12	3	0.25	0.18	
C20 / Rectum	17	1.42	2.09	15	1.26	1.82	32	2.68	1.95	
C21 / Anus & Anal Canal	1	0.08	0.12	0	0.00	0.00	1	0.08	0.06	
C22 / Liver & Bile Ducts	11	0.92	1.35	7	0.59	0.85	18	1.51	1.10	
C23 / Gallbladder	9	0.75	1.11	1	0.08	0.12	10	0.84	0.61	
C24 / Biliary Tract , other	1	0.08	0.12	0	0.00	0.00	1	0.08	0.06	
C25 / Pancreas	14	1.17	1.72	18	1.51	2.18	32	2.68	1.95	
C30 / Nasal Cavity	1	0.08	0.12	0	0.00	0.00	1	0.08	0.06	
C32 / Larynx	2	0.17	0.25	16	1.34	1.94	18	1.51	1.10	
C34 / Bronchus & Lung	28	2.34	3.44	53	4.44	6.42	81	6.78	4.94	
C37 / Thymus	3	0.25	0.37	0	0.00	0.00	3	0.25	0.18	
C38 / Heart, Mediastinum, Pleura	1	0.08	0.12	1	0.08	0.12	2	0.17	0.12	
C40 / Bone & Cartilage, Limbs	3	0.25	0.37	4	0.33	0.48	7	0.59	0.43	
C41 / Bones & Cartilage, other	1	0.08	0.12	5	0.42	0.61	6	0.50	0.37	
C42 / Reticulo Endothelial & Hemato poietic System	Chronic Myelo proliferative Disorders	4	0.33	0.49	3	0.25	0.36	7	0.59	0.43
	Leukemia	38	3.18	4.67	47	3.93	5.69	85	7.11	5.18
	Myelo Dysplastic Syndromes	1	0.08	0.12	1	0.08	0.12	2	0.17	0.12
	Plasma Cell Tumor	2	0.17	0.25	7	0.59	0.85	9	0.75	0.55
C44 / Skin, other	24	2.01	2.95	21	1.76	2.54	45	3.77	2.74	
C48 / Peritoneum	1	0.08	0.12	1	0.08	0.12	2	0.17	0.12	

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C49 / Soft tissues		11	0.92	1.35	6	0.50	0.73	17	1.42	1.04
C50 / Breast		282	23.60	34.63	3	0.25	0.36	285	23.85	17.38
C52 / Vagina		1	0.08	0.12	0	0.00	0.00	1	0.08	0.12
C53 / Cervix Uteri		8	0.67	0.98	0	0.00	0.00	8	0.67	0.98
C54 / Corpus Uteri		10	0.84	1.23	0	0.00	0.00	10	0.84	1.23
C55 / Uterus Unspecified		31	2.59	3.81	0	0.00	0.00	31	2.59	3.81
C56 / Ovary		41	3.43	5.03	0	0.00	0.00	41	3.43	5.03
C59 / Placenta		2	0.17	0.25	0	0.00	0.00	2	0.17	0.25
C61 / Prostate		0	0.00	0.00	46	3.85	5.57	46	3.85	5.57
C62 / Testis		0	0.00	0.00	7	0.59	0.85	7	0.59	0.85
C64 / Kidney		13	1.09	1.60	24	2.01	2.91	37	3.10	2.26
C67 / Urinary Bladder		12	1.00	1.47	35	2.93	4.24	47	3.93	2.87
C69 / Eye & Adnexa		2	0.17	0.25	2	0.17	0.24	4	0.33	0.24
C70 / Meninges		6	0.50	0.74	2	0.17	0.24	8	0.67	0.49
C71 / Brain		15	1.26	1.84	33	2.76	4.00	48	4.02	2.93
C72 / Nervous System, other		1	0.08	0.12	0	0.00	0.00	1	0.08	0.06
C73 / Thyroid Gland		28	2.34	3.44	6	0.50	0.73	34	2.85	2.07
C74 / Adrenal gland		1	0.08	0.12	3	0.25	0.36	4	0.33	0.24
C75 / Endocrine Gland, other		3	0.25	0.37	6	0.50	0.73	9	0.75	0.55
C76 / Unspecified Site		0	0.00	0.00	2	0.17	0.24	2	0.17	0.12
C77 / Lymph nodes	Hodgkin Lymphoma	7	0.59	0.86	8	0.67	0.97	15	1.26	0.91
	Non-Hodgkin Lymphoma	19	1.59	2.33	30	2.51	3.63	49	4.10	2.99
C80 / Unknown Primary Site		5	0.42	0.61	7	0.59	0.85	12	1.00	0.73
Total		712	59.58	87.43	483	40.42	58.51	1,195	100.00	72.87

Nineveh
Populations Number : 3828197
Cancer Cases Number :2476
Incidence Rate:64.68 /100,000 NinevehPopulations

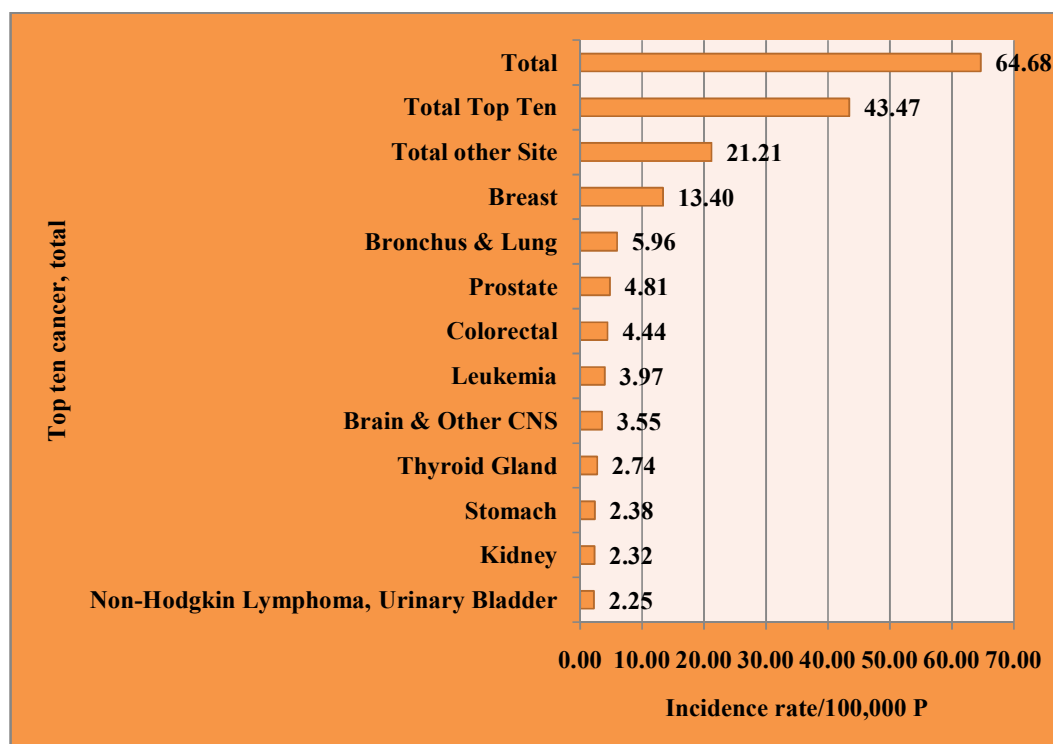


3.4.17. Nineveh governorate

Table No.; (82) Distribution of the top ten cancers in Nineveh, Iraq, 2019

Top Ten Total		No.	%
1	Breast	513	20.72
2	Bronchus & Lung	228	9.21
3	Colorectal	170	6.87
4	Leukemia	152	6.14
5	Brain & Other CNS	136	5.49
6	Thyroid Gland	105	4.24
7	Prostate	94	3.80
8	Stomach	91	3.68
9	Kidney	89	3.59
10	Non-Hodgkin Lymphoma, Urinary Bladder	86	3.47
Total Top Ten		1,664	67.21
Total other Site		812	32.79
Total		2,476	100.00%

Figure No.; (62) Incidence rate of the top ten cancers in Nineveh /100,000 Nineveh populations, Iraq, 2019



The prostate incidence rate is calculated from the male population.

Table No.; (83) Distribution of the top ten cancers in males, Nineveh, Iraq, 2019

Top Ten Male		No.	%
1	Bronchus & Lung	168	15.91
2	Colorectal	102	9.66
3	Prostate	94	8.90
4	Leukemia	79	7.48
5	Urinary Bladder	72	6.82
6	Brain & Other CNS	62	5.87
7	Kidney	49	4.64
8	Stomach	49	4.64
9	Non-Hodgkin Lymphoma	39	3.69
10	Skin, other	36	3.41
Total Top Ten		750	71.02
Total other Site		306	28.98
Total		1,056	100.00%

Figure No.; (63) Incidence rate of the top ten cancers in males / 100,000 male populations, Nineveh, Iraq, 2019

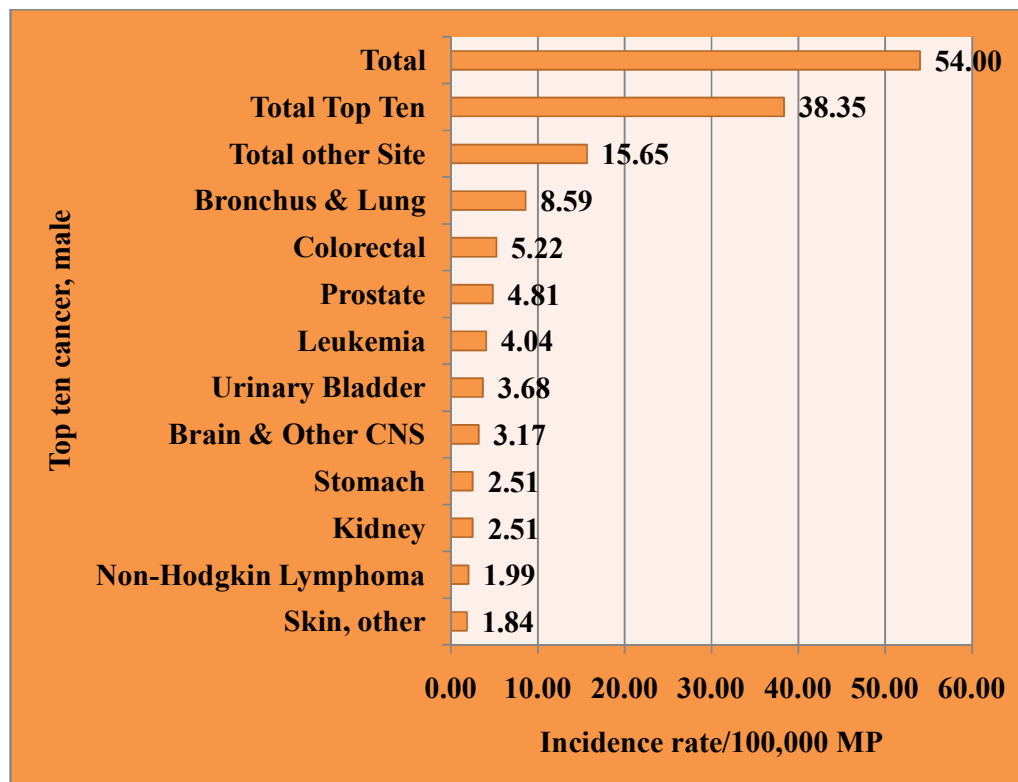
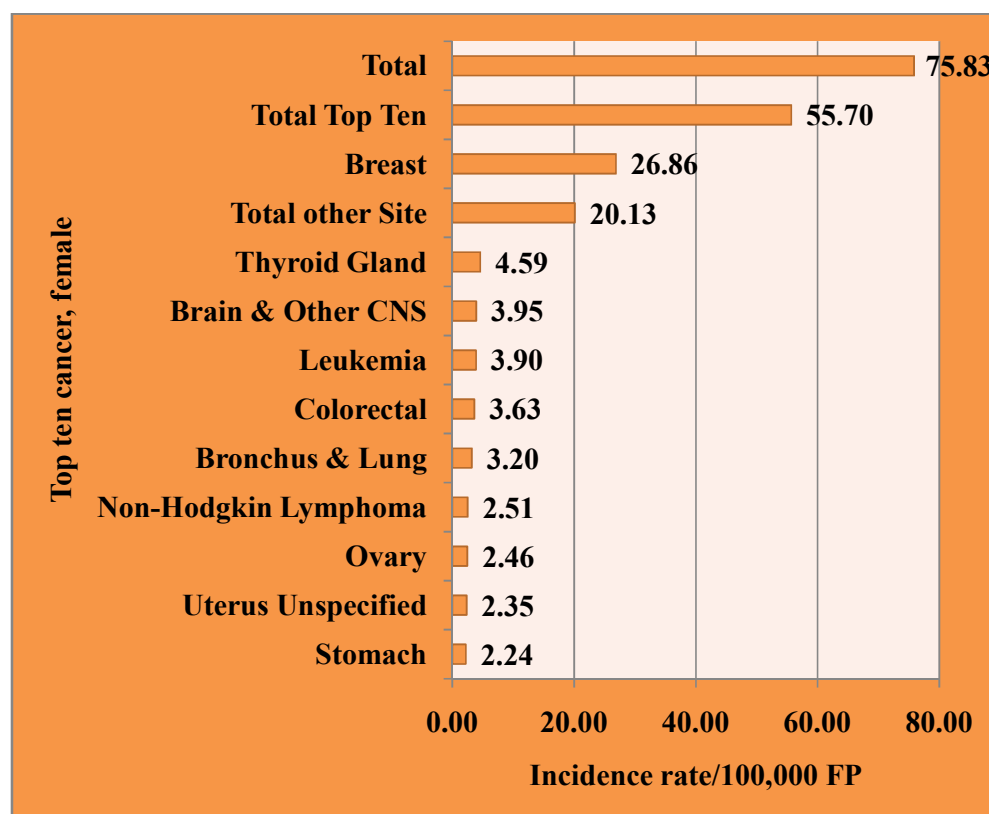


Table No.; (84) Distribution of the top ten cancers in females, Nineveh, Iraq, 2019

Top Ten Female		No.	%
1	Breast	503	35.42
2	Thyroid Gland	86	6.06
3	Brain & Other CNS	74	5.21
4	Leukemia	73	5.14
5	Colorectal	68	4.79
6	Bronchus & Lung	60	4.23
7	Non-Hodgkin Lymphoma	47	3.31
8	Ovary	46	3.24
9	Uterus Unspecified	44	3.10
10	Stomach	42	2.96
Total Top Ten		1,043	73.45
Total other Site		377	26.55
Total		1,420	100.00%

Figure No.; (64) Incidence rate of the top ten cancers in females / 100,000 female populations, Nineveh, Iraq, 2019

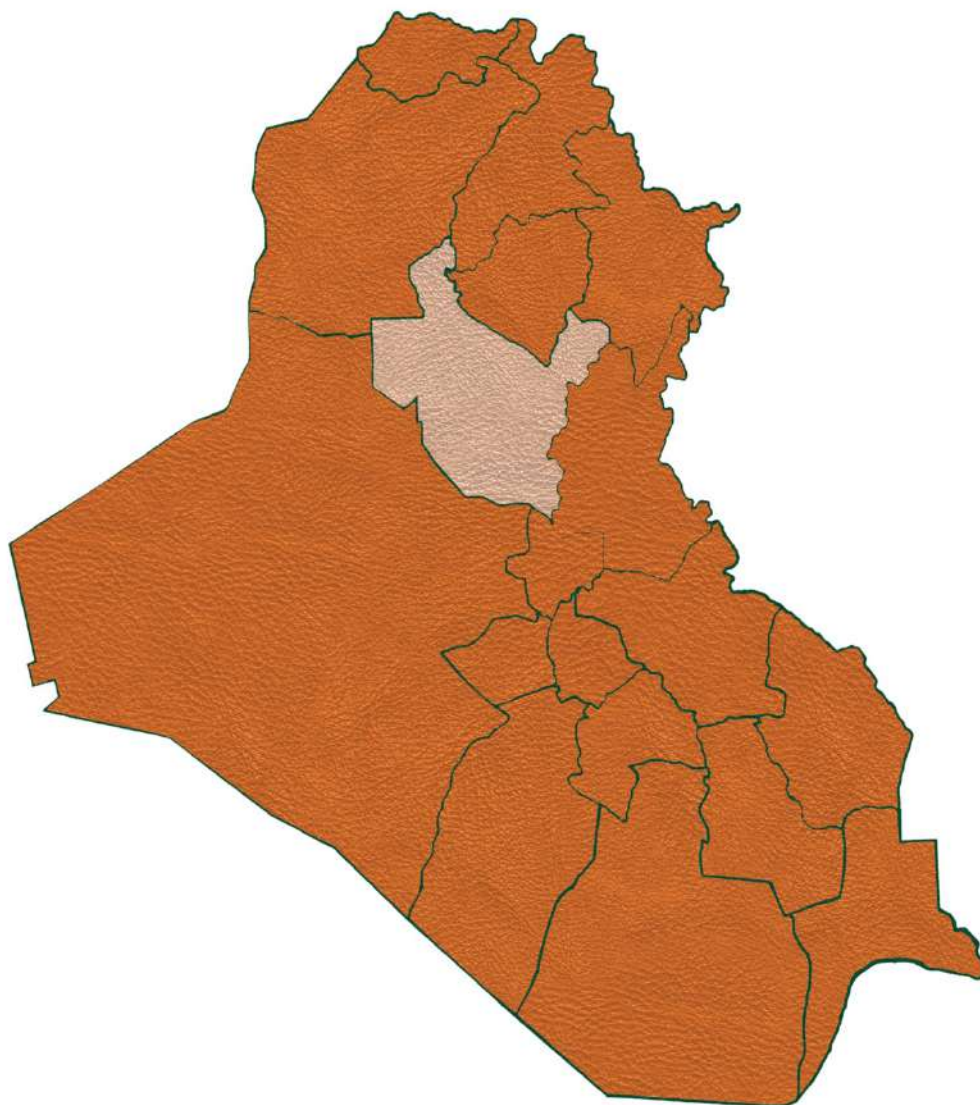


**Table No.; (85) Distribution and the incidence rate of cancer /100,000
populations by ICD-O, site, and gender in Nineveh, Iraq, 2019**

ICD-O code / Site of tumor	Female			Male			Total			
	No.	%	IR	No.	%	IR	No.	%	IR	
C00 / Lip	0	0.00	0.00	3	0.12	0.15	3	0.12	0.08	
C02 / Tongue, other	4	0.16	0.21	3	0.12	0.15	7	0.28	0.18	
C03 / Gum	1	0.04	0.05	1	0.04	0.05	2	0.08	0.05	
C05 / Mouth - Palate	0	0.00	0.00	1	0.04	0.05	1	0.04	0.03	
C06 / Mouth - other	3	0.12	0.16	1	0.04	0.05	4	0.16	0.10	
C07 / Parotid Gland	2	0.08	0.11	1	0.04	0.05	3	0.12	0.08	
C08 / Mouth Glands	3	0.12	0.16	0	0.00	0.00	3	0.12	0.08	
C10 / Oropharynx	0	0.00	0.00	3	0.12	0.15	3	0.12	0.08	
C11 / Nasopharynx	2	0.08	0.11	7	0.28	0.36	9	0.36	0.24	
C13 / Hypopharynx	2	0.08	0.11	0	0.00	0.00	2	0.08	0.05	
C14 / Pharynx	0	0.00	0.00	1	0.04	0.05	1	0.04	0.03	
C15 / Esophagus	6	0.24	0.32	12	0.48	0.61	18	0.73	0.47	
C16 / Stomach	42	1.70	2.24	49	1.98	2.51	91	3.68	2.38	
C17 / Small intestine	2	0.08	0.11	3	0.12	0.15	5	0.20	0.13	
C18 / Colon	48	1.94	2.56	73	2.95	3.73	121	4.89	3.16	
C19 / Recto sigmoid Junction	0	0.00	0.00	4	0.16	0.20	4	0.16	0.10	
C20 / Rectum	20	0.81	1.07	25	1.01	1.28	45	1.82	1.18	
C21 / Anus & Anal Canal	3	0.12	0.16	1	0.04	0.05	4	0.16	0.10	
C22 / Liver & Bile Ducts	28	1.13	1.50	26	1.05	1.33	54	2.18	1.41	
C23 / Gallbladder	7	0.28	0.37	5	0.20	0.26	12	0.48	0.31	
C24 / Biliary Tract , other	4	0.16	0.21	5	0.20	0.26	9	0.36	0.24	
C25 / Pancreas	36	1.45	1.92	35	1.41	1.79	71	2.87	1.85	
C30 / Nasal Cavity	0	0.00	0.00	1	0.04	0.05	1	0.04	0.03	
C31 / Accessory Sinus	1	0.04	0.05	1	0.04	0.05	2	0.08	0.05	
C32 / Larynx	13	0.53	0.69	25	1.01	1.28	38	1.53	0.99	
C33 / Trachea	1	0.04	0.05	0	0.00	0.00	1	0.04	0.03	
C34 / Bronchus & Lung	60	2.42	3.20	168	6.79	8.59	228	9.21	5.96	
C37 / Thymus	1	0.04	0.05	1	0.04	0.05	2	0.08	0.05	
C38 / Heart, Mediastinum, Pleura	1	0.04	0.05	1	0.04	0.05	2	0.08	0.05	
C40 / Bone & Cartilage, Limbs	3	0.12	0.16	4	0.16	0.20	7	0.28	0.18	
C41 / Bones & Cartilage, other	16	0.65	0.85	19	0.77	0.97	35	1.41	0.91	
C42 / Reticulo Endothelial & Hemato poietic System	Chronic Myelo proliferative Disorders	0	0.00	0.00	1	0.04	0.05	1	0.04	0.03
	Leukemia	73	2.95	3.90	79	3.19	4.04	152	6.14	3.97
	Plasma Cell Tumor	17	0.69	0.91	11	0.44	0.56	28	1.13	0.73
C44 / Skin, other	36	1.45	1.92	36	1.45	1.84	72	2.91	1.88	
C47 /Nerves System	2	0.08	0.11	0	0.00	0.00	2	0.08	0.05	

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	NO.	%	IR	No.	%	IR
C48 / Peritoneum		0	0.00	0.00	1	0.04	0.05	1	0.04	0.03
C49 / soft tissues		11	0.44	0.59	18	0.73	0.92	29	1.17	0.76
C50 / Breast		503	20.32	26.86	10	0.40	0.51	513	20.72	13.40
C51 / Vulva		1	0.04	0.05	0	0.00	0.00	1	0.04	0.05
C53 / Cervix Uteri		19	0.77	1.01	0	0.00	0.00	19	0.77	1.01
C54 / Corpus Uteri		30	1.21	1.60	0	0.00	0.00	30	1.21	1.60
C55 / Uterus Unspecified		44	1.78	2.35	0	0.00	0.00	44	1.78	2.35
C56 / Ovary		46	1.86	2.46	0	0.00	0.00	46	1.86	2.46
C57 / Female genital, other		1	0.04	0.05	0	0.00	0.00	1	0.04	0.05
C59 / Placenta		3	0.12	0.16	0	0.00	0.00	3	0.12	0.16
C60 / Penis		0	0.00	0.00	1	0.04	0.05	1	0.04	0.05
C61 / Prostate		0	0.00	0.00	94	3.80	4.81	94	3.80	4.81
C62 / Testis		0	0.00	0.00	11	0.44	0.56	11	0.44	0.56
C64 / Kidney		40	1.62	2.14	49	1.98	2.51	89	3.59	2.32
C66 / Ureter		0	0.00	0.00	1	0.04	0.05	1	0.04	0.03
C67 / Urinary Bladder		14	0.57	0.75	72	2.91	3.68	86	3.47	2.25
C69 / Eye & Adnexa		2	0.08	0.11	4	0.16	0.20	6	0.24	0.16
C70 / Meninges		5	0.20	0.27	2	0.08	0.10	7	0.28	0.18
C71 / Brain		65	2.63	3.47	54	2.18	2.76	119	4.81	3.11
C72 / Nervous System, other		2	0.08	0.11	4	0.16	0.20	6	0.24	0.16
C73 / Thyroid Gland		86	3.47	4.59	19	0.77	0.97	105	4.24	2.74
C74 / Adrenal gland		3	0.12	0.16	5	0.20	0.26	8	0.32	0.21
C75 / Endocrine Gland, other		2	0.08	0.11	2	0.08	0.10	4	0.16	0.10
C76 / Unspecified Site		3	0.12	0.16	4	0.16	0.20	7	0.28	0.18
C77 / Lymph nodes	Hodgkin Lymphoma	26	1.05	1.39	29	1.17	1.48	55	2.22	1.44
	Non-Hodgkin Lymphoma	47	1.90	2.51	39	1.58	1.99	86	3.47	2.25
C80 / Unknown Primary Site		30	1.21	1.60	31	1.25	1.59	61	2.46	1.59
Total		1,420	57.35	75.83	1,056	42.65	54.00	2,476	100.00	64.68

Salah AL-Deen
Populations Number : 1637232
Cancer Cases Number :1032
Incidence Rate: 63.03/100,000 Salah AL-Deen Populations



3.4.18. Salah Al-Deen governorate

Table No.; (86) Distribution of the top ten cancers in Salah Al-Deen, Iraq, 2019

Top Ten Total		No.	%
1	Breast	213	20.64
2	Thyroid Gland	92	8.91
3	Bronchus & Lung	81	7.85
4	Colorectal	55	5.33
5	Leukemia	53	5.14
6	Brain & Other CNS	52	5.04
7	Non-Hodgkin Lymphoma	52	5.04
8	Skin, other	49	4.75
9	Urinary Bladder	31	3.00
10	Kidney	29	2.81
Total Top Ten		707	68.51
Total other Site		325	31.49
Total		1,032	100.00%

Figure No.; (65) Incidence rate of the top ten cancers in Salah Al-Deen /100,000 Salah Al-Deen populations, Iraq, 2019

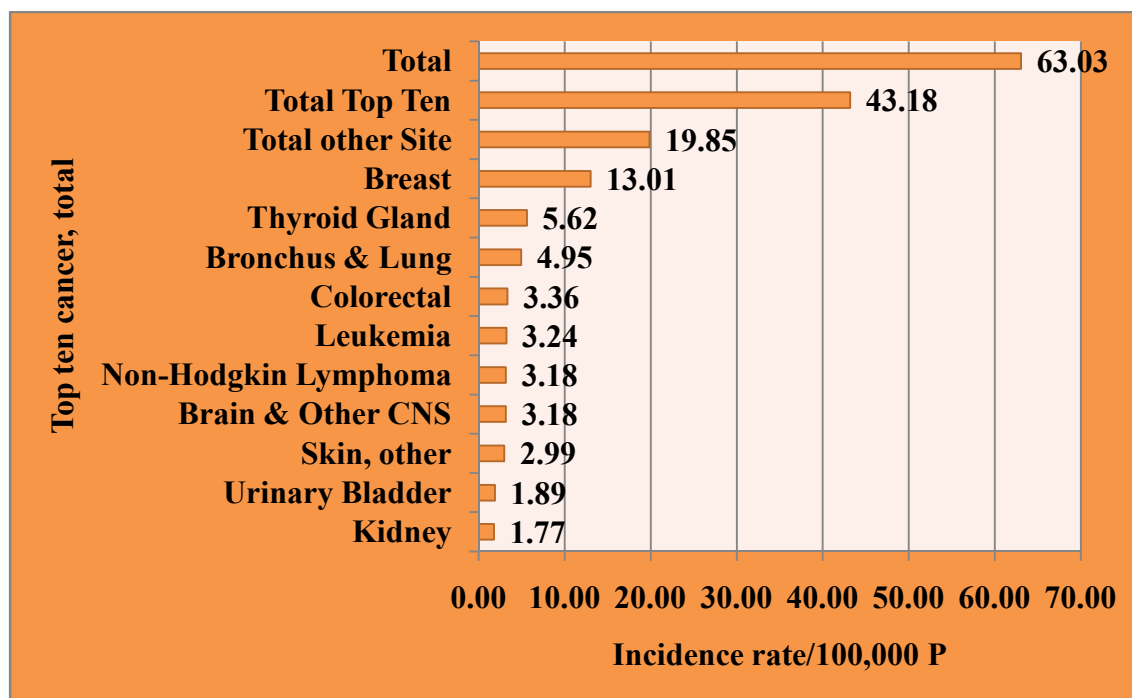


Table No.; (87) Distribution of the top ten cancers in males, Salah Al-Deen, Iraq, 2019

Top Ten Male		No.	%
1	Bronchus & Lung	54	12.89
2	Non-Hodgkin Lymphoma	32	7.64
3	Leukemia	30	7.16
4	Brain & Other CNS	28	6.68
5	Colorectal	27	6.44
6	Urinary Bladder	27	6.44
7	Prostate	26	6.21
8	Skin, other	21	5.01
9	Kidney	18	4.30
10	Thyroid Gland	17	4.06
Total Top Ten		280	66.83
Total other Site		139	33.17
Total		419	100.00%

Figure No.; (66) Incidence rate of the top ten cancers in males / 100,000 male populations, Salah Al-Deen, Iraq, 2019

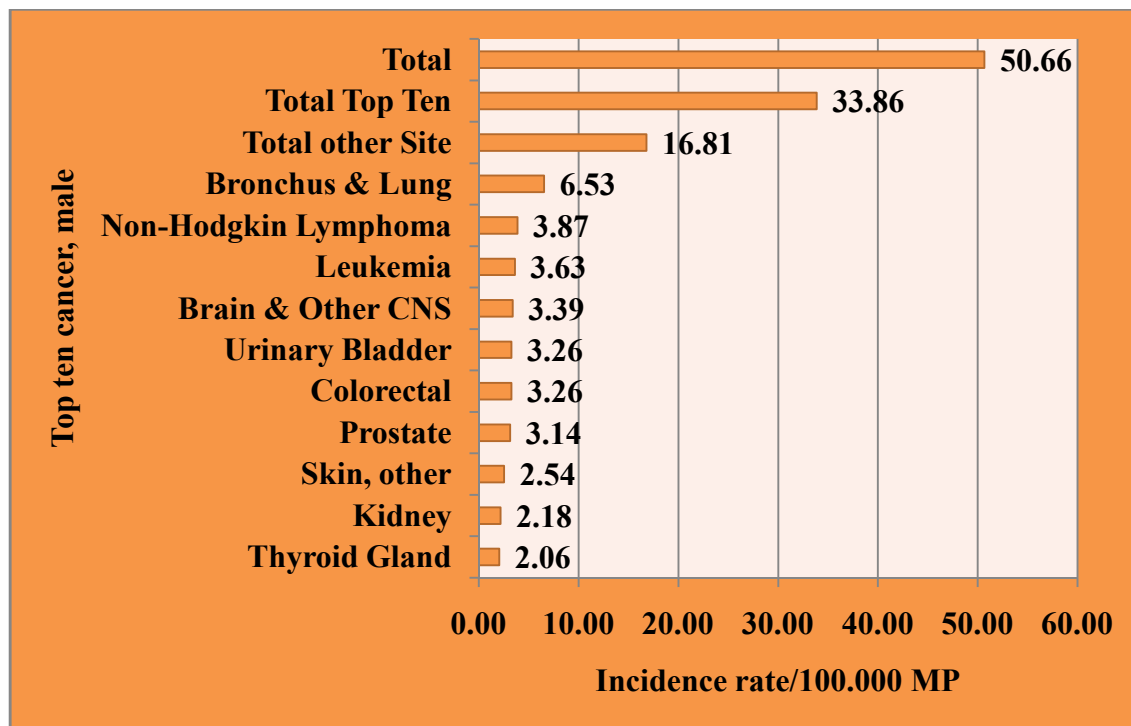
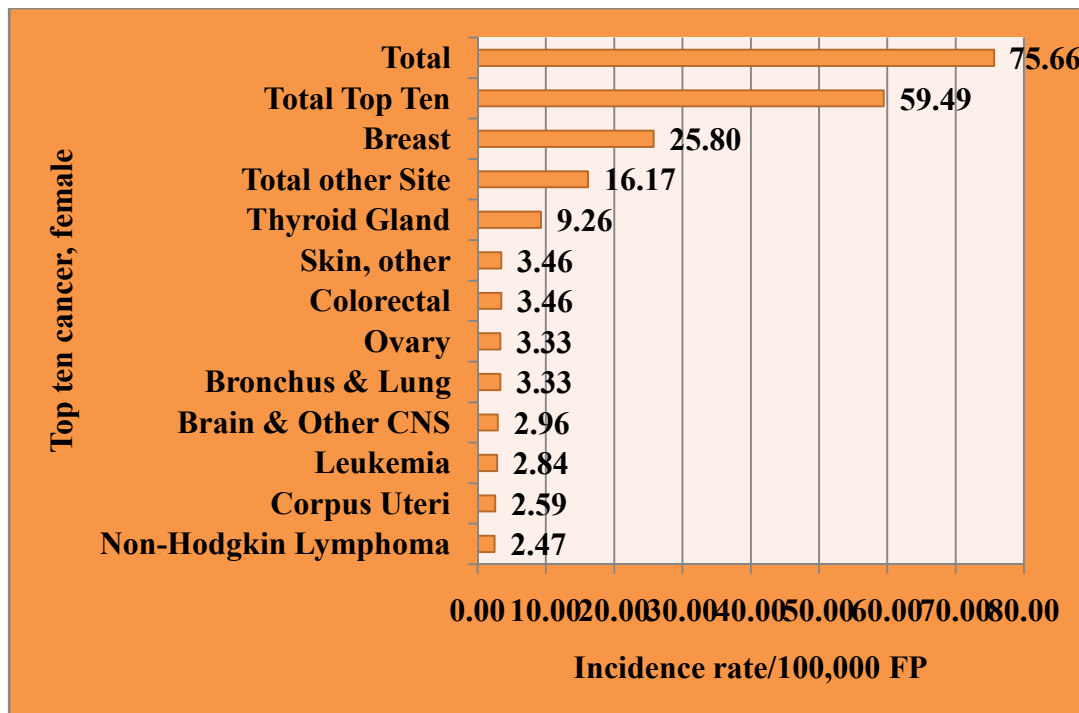


Table No.; (88) Distribution of the top ten cancers in females, Salah Al-Deen, Iraq, 2019

Top Ten Female		No.	%
1	Breast	209	34.09
2	Thyroid Gland	75	12.23
3	Colorectal	28	4.57
4	Skin, other	28	4.57
5	Bronchus & Lung	27	4.40
6	Ovary	27	4.40
7	Brain & Other CNS	24	3.92
8	Leukemia	23	3.75
9	Corpus Uteri	21	3.43
10	Non-Hodgkin Lymphoma	20	3.26
Total Top Ten		482	78.63
Total other Site		131	21.37
Total		613	100.00%

Figure No.; (67) Incidence rate of the top ten cancers in Females / 100,000 Female populations, Salah Al-Deen, Iraq, 2019



**Table No.; (89) Distribution and the incidence rate of cancer /100,000 populations
by ICD-O, site, and gender in Salah Al-Deen, Iraq, 2019**

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C02 / Tongue, other		1	0.10	0.12	1	0.10	0.12	2	0.19	0.12
C05 / Mouth - Palate		1	0.10	0.12	0	0.00	0.00	1	0.10	0.06
C07 / Parotid Gland		0	0.00	0.00	1	0.10	0.12	1	0.10	0.06
C11 / Nasopharynx		2	0.19	0.25	9	0.87	1.09	11	1.07	0.67
C13 / Hypopharynx		0	0.00	0.00	1	0.10	0.12	1	0.10	0.06
C14 / Pharynx		0	0.00	0.00	2	0.19	0.24	2	0.19	0.12
C15 / Esophagus		1	0.10	0.12	3	0.29	0.36	4	0.39	0.24
C16 / Stomach		13	1.26	1.60	15	1.45	1.81	28	2.71	1.71
C17 / Small intestine		3	0.29	0.37	0	0.00	0.00	3	0.29	0.18
C18 / Colon		13	1.26	1.60	18	1.74	2.18	31	3.00	1.89
C19 / Recto sigmoid Junction		1	0.10	0.12	2	0.19	0.24	3	0.29	0.18
C20 / Rectum		14	1.36	1.73	7	0.68	0.85	21	2.03	1.28
C22 / Liver & Bile Ducts		8	0.78	0.99	10	0.97	1.21	18	1.74	1.10
C23 / Gallbladder		1	0.10	0.12	3	0.29	0.36	4	0.39	0.24
C24 / Biliary Tract , other		3	0.29	0.37	2	0.19	0.24	5	0.48	0.31
C25 / Pancreas		4	0.39	0.49	13	1.26	1.57	17	1.65	1.04
C30 / Nasal Cavity		2	0.19	0.25	0	0.00	0.00	2	0.19	0.12
C31 / Accessory Sinus		2	0.19	0.25	0	0.00	0.00	2	0.19	0.12
C32 / Larynx		5	0.48	0.62	11	1.07	1.33	16	1.55	0.98
C34 / Bronchus & Lung		27	2.62	3.33	54	5.23	6.53	81	7.85	4.95
C37 / Thymus		1	0.10	0.12	0	0.00	0.00	1	0.10	0.06
C38 / Heart, Mediastinum, Pleura		0	0.00	0.00	2	0.19	0.24	2	0.19	0.12
C39 / Other Respiratory & Thoracic		1	0.10	0.12	1	0.10	0.12	2	0.19	0.12
C40 / Bone & Cartilage, Limbs		3	0.29	0.37	9	0.87	1.09	12	1.16	0.73
C41 / Bones & Cartilage, Other		3	0.29	0.37	2	0.19	0.24	5	0.48	0.31
C42 / Reticulo Endothelial & Hemato poietic System	Chronic Myelo proliferative Disorders	1	0.10	0.12	1	0.10	0.12	2	0.19	0.12
	Leukemia	23	2.23	2.84	30	2.91	3.63	53	5.14	3.24
	Myelo Dysplastic Syndromes	2	0.19	0.25	1	0.10	0.12	3	0.29	0.18
	Plasma Cell Tumor	3	0.29	0.37	3	0.29	0.36	6	0.58	0.37
C44 / Skin, other		28	2.71	3.46	21	2.03	2.54	49	4.75	2.99
C47 /Nerves System		1	0.10	0.12	0	0.00	0.00	1	0.10	0.06

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C48 / Peritoneum		0	0.00	0.00	4	0.39	0.48	4	0.39	0.24
C49 / Soft tissues		9	0.87	1.11	11	1.07	1.33	20	1.94	1.22
C50 / Breast		209	20.25	25.80	4	0.39	0.48	213	20.64	13.01
C52 / Vagina		2	0.19	0.25	0	0.00	0.00	2	0.19	0.25
C53 / Cervix Uteri		8	0.78	0.99	0	0.00	0.00	8	0.78	0.99
C54 / Corpus Uteri		21	2.03	2.59	0	0.00	0.00	21	2.03	2.59
C55 / Uterus Unspecified		11	1.07	1.36	0	0.00	0.00	11	1.07	1.36
C56 / Ovary		27	2.62	3.33	0	0.00	0.00	27	2.62	3.33
C59 / Placenta		1	0.10	0.12	0	0.00	0.00	1	0.10	0.12
C61 / Prostate		0	0.00	0.00	26	2.52	3.14	0	0.00	0.00
C62 / Testis		0	0.00	0.00	7	0.68	0.85	7	0.68	0.85
C64 / Kidney		11	1.07	1.36	18	1.74	2.18	29	2.81	1.77
C65 / Pelvis		0	0.00	0.00	1	0.10	0.12	1	0.10	0.06
C67 / Urinary Bladder		4	0.39	0.49	27	2.62	3.26	31	3.00	1.89
C68 / Urinary organs, other		1	0.10	0.12	0	0.00	0.00	1	0.10	0.06
C69 / Eye & Adnexa		2	0.19	0.25	2	0.19	0.24	4	0.39	0.24
C70 / Meninges		2	0.19	0.25	0	0.00	0.00	2	0.19	0.12
C71 / Brain		22	2.13	2.72	24	2.33	2.90	46	4.46	2.81
C72 / Nervous System, other		0	0.00	0.00	3	0.29	0.36	3	0.29	0.18
C73 / Thyroid Gland		75	7.27	9.26	17	1.65	2.06	92	8.91	5.62
C74 / Adrenal gland		2	0.19	0.25	4	0.39	0.48	6	0.58	0.37
C75 / Endocrine Gland, other		0	0.00	0.00	1	0.10	0.12	1	0.10	0.06
C76 / Unspecified Site		2	0.19	0.25	0	0.00	0.00	2	0.19	0.12
C77 / Lymph nodes	Hodgkin Lymphoma	12	1.16	1.48	10	0.97	1.21	22	2.13	1.34
	Non-Hodgkin Lymphoma	20	1.94	2.47	32	3.10	3.87	52	5.04	3.18
C80 / Unknown Primary Site		5	0.48	0.62	6	0.58	0.73	11	1.07	0.67
Total		613	59.40	75.66	419	40.60	50.66	1,032	100.00	63.03

Results

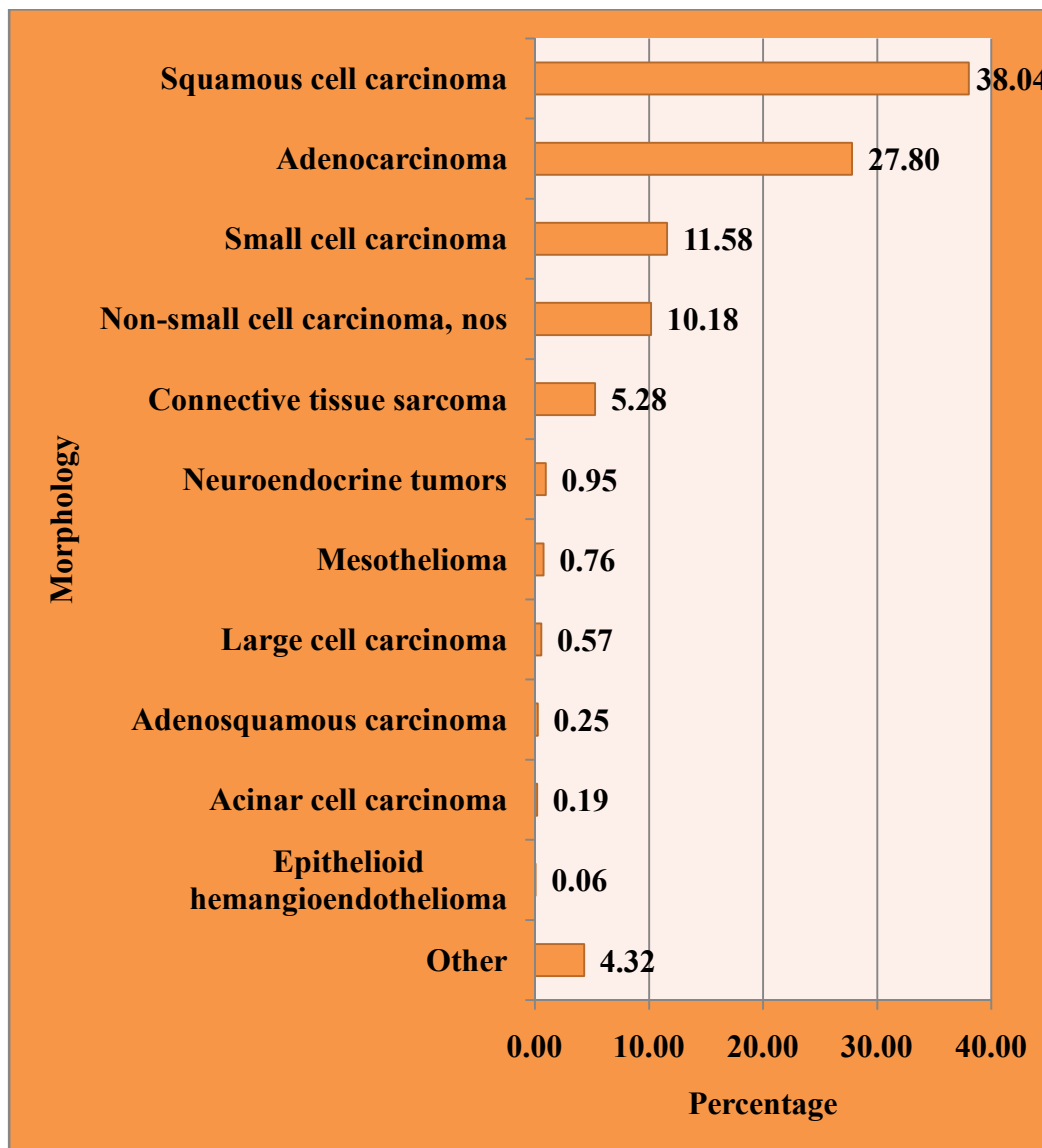
Morphology of Top Ten Cancers in Iraq 2019

3.5. Morphology of the top ten cancers in Iraq in 2019:

3.5.1 Morphology of the top ten cancers in the males, Iraq, 2019

Figure No.; (68-77) shows the morphology of the top ten cancers in the males in Iraq during the year 2019.

Figure No.; (68) Bronchus & Lung cancer in the males by the type of morphology, Iraq, 2019



**Figure No.; (69) Urinary Bladder cancer in the males by the type of morphology,
Iraq, 2019**

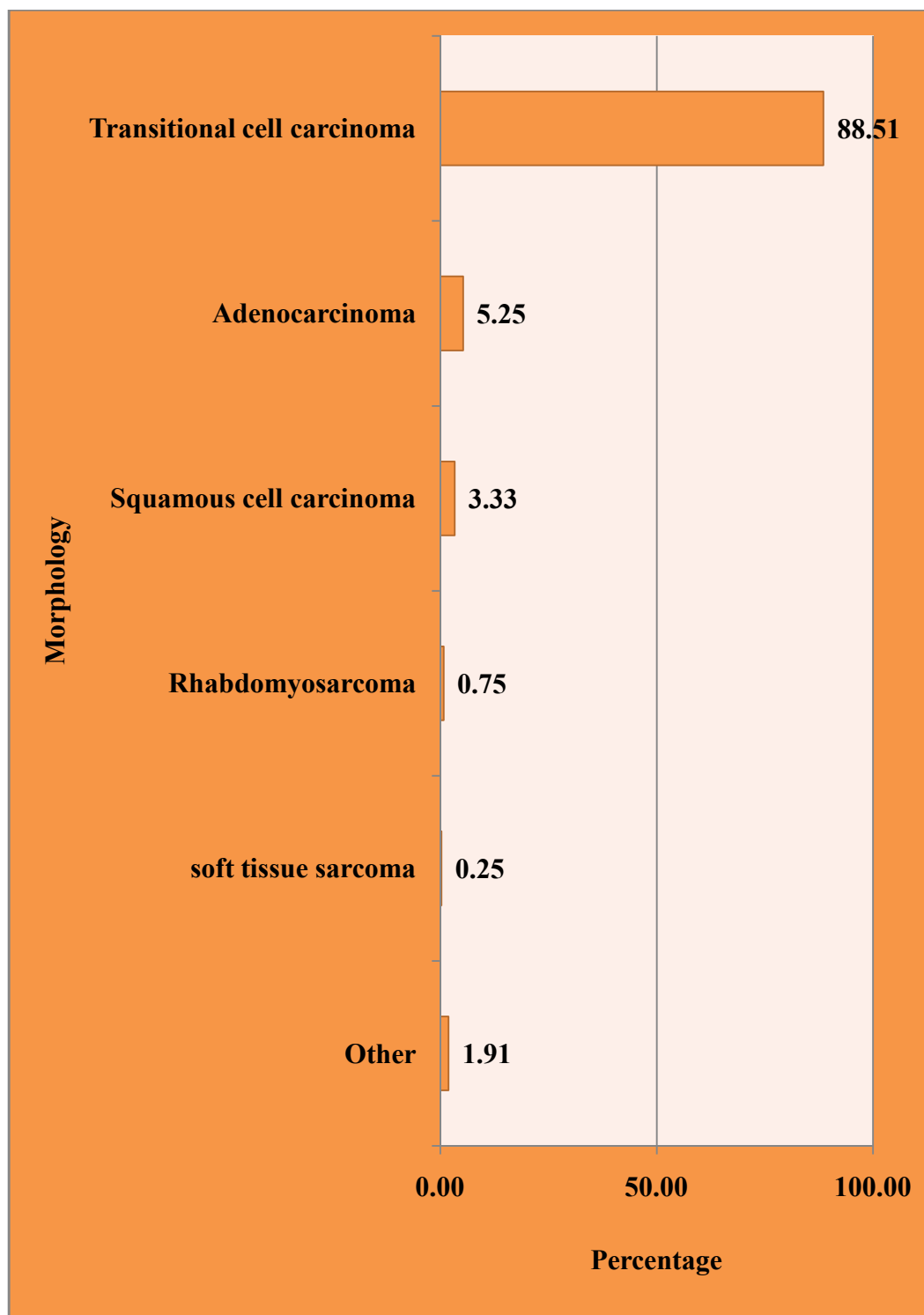


Figure No.; (70) Colorectal cancer in the males by the type of morphology, Iraq, 2019

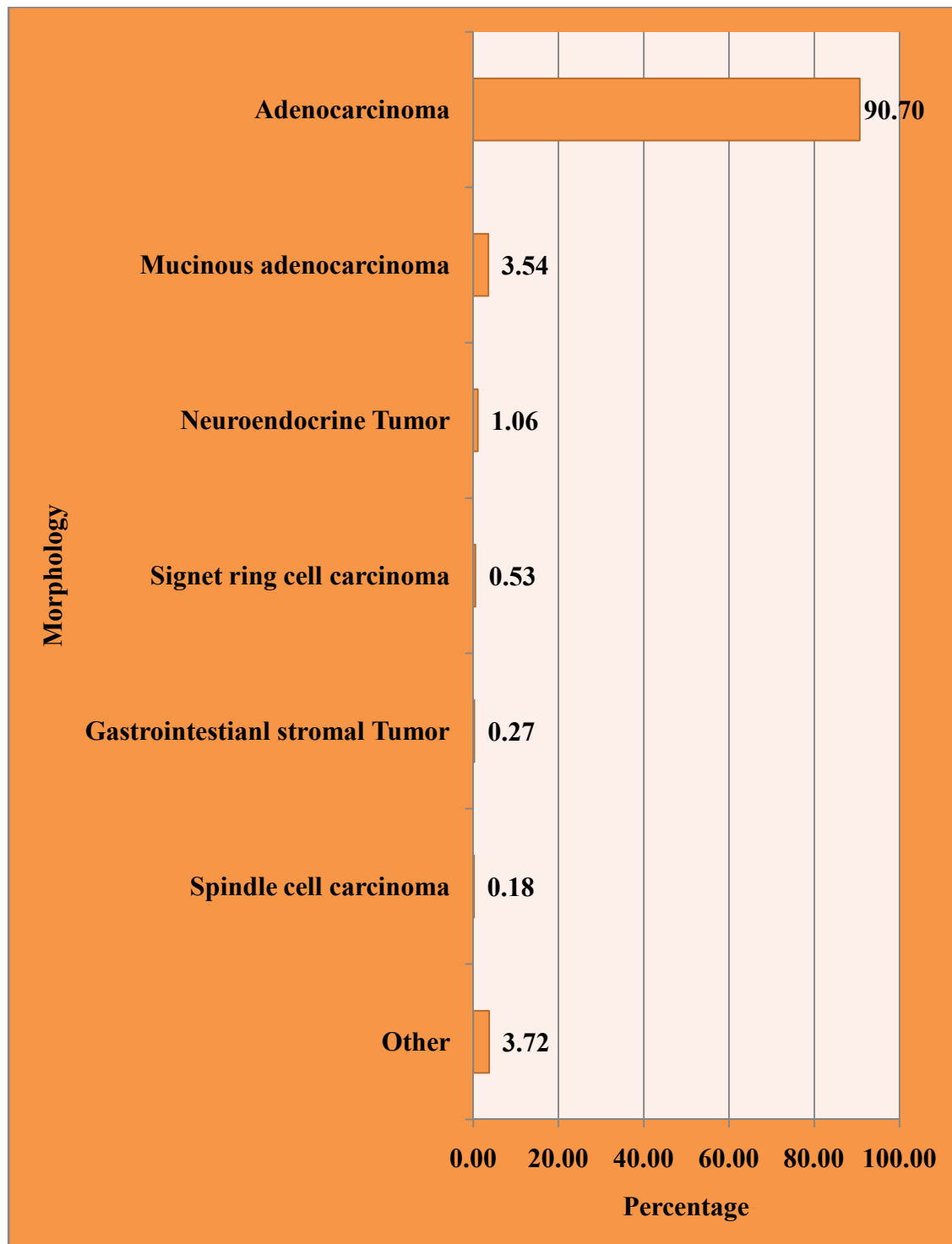


Figure No.; (71) Prostate cancer in the males by the type of morphology, Iraq, 2019

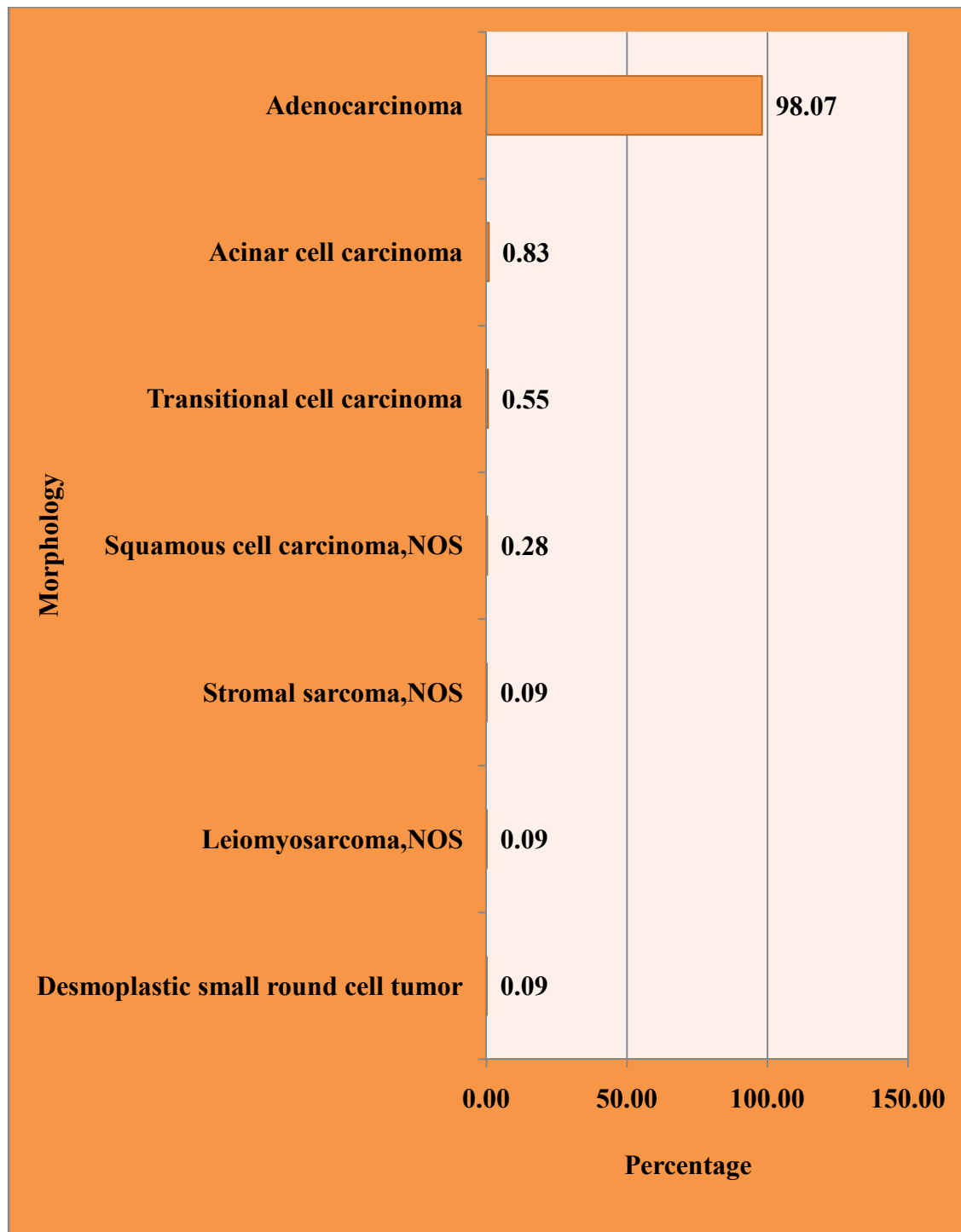


Figure No.; (72) Leukemia in the male by the type of morphology, Iraq, 2019

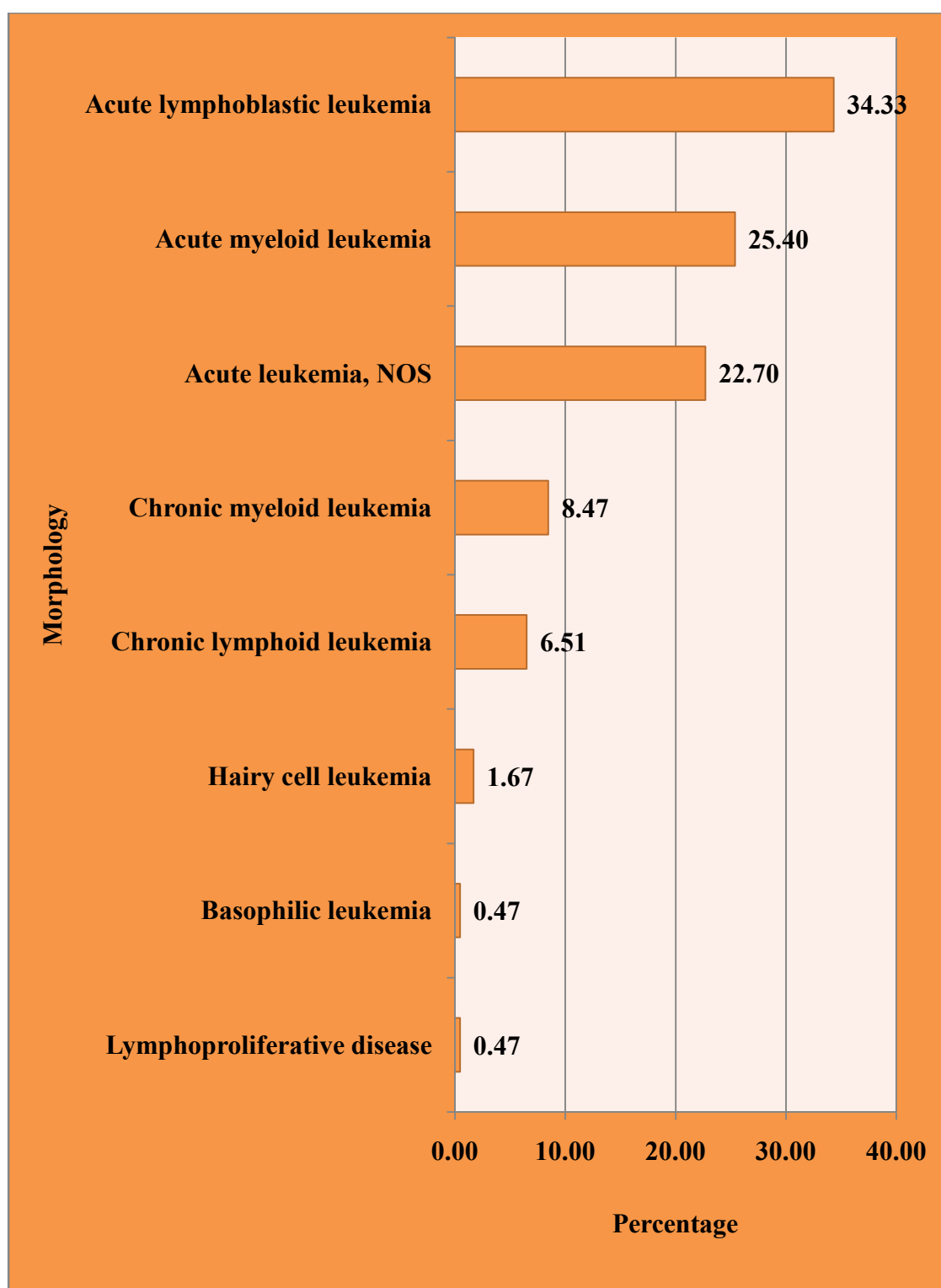


Figure No.; (73) Brain & other CNS tumor in the males by the type of morphology, Iraq, 2019

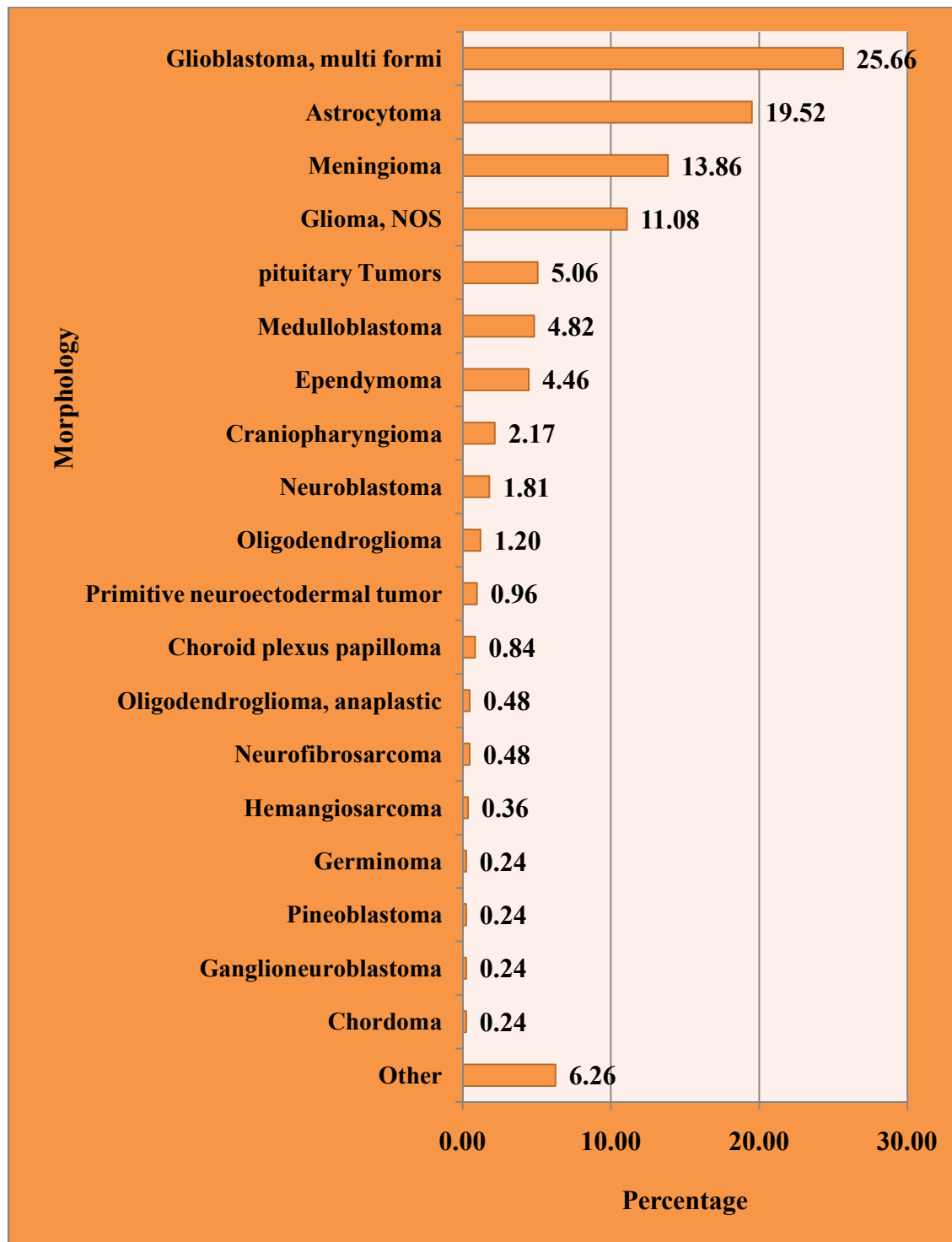


Figure No.; (74) Non-Hodgkin lymphomas in the males by the type of morphology, Iraq, 2019



Figure No.; (75) Skin cancer in the males by the type of morphology, Iraq, 2019

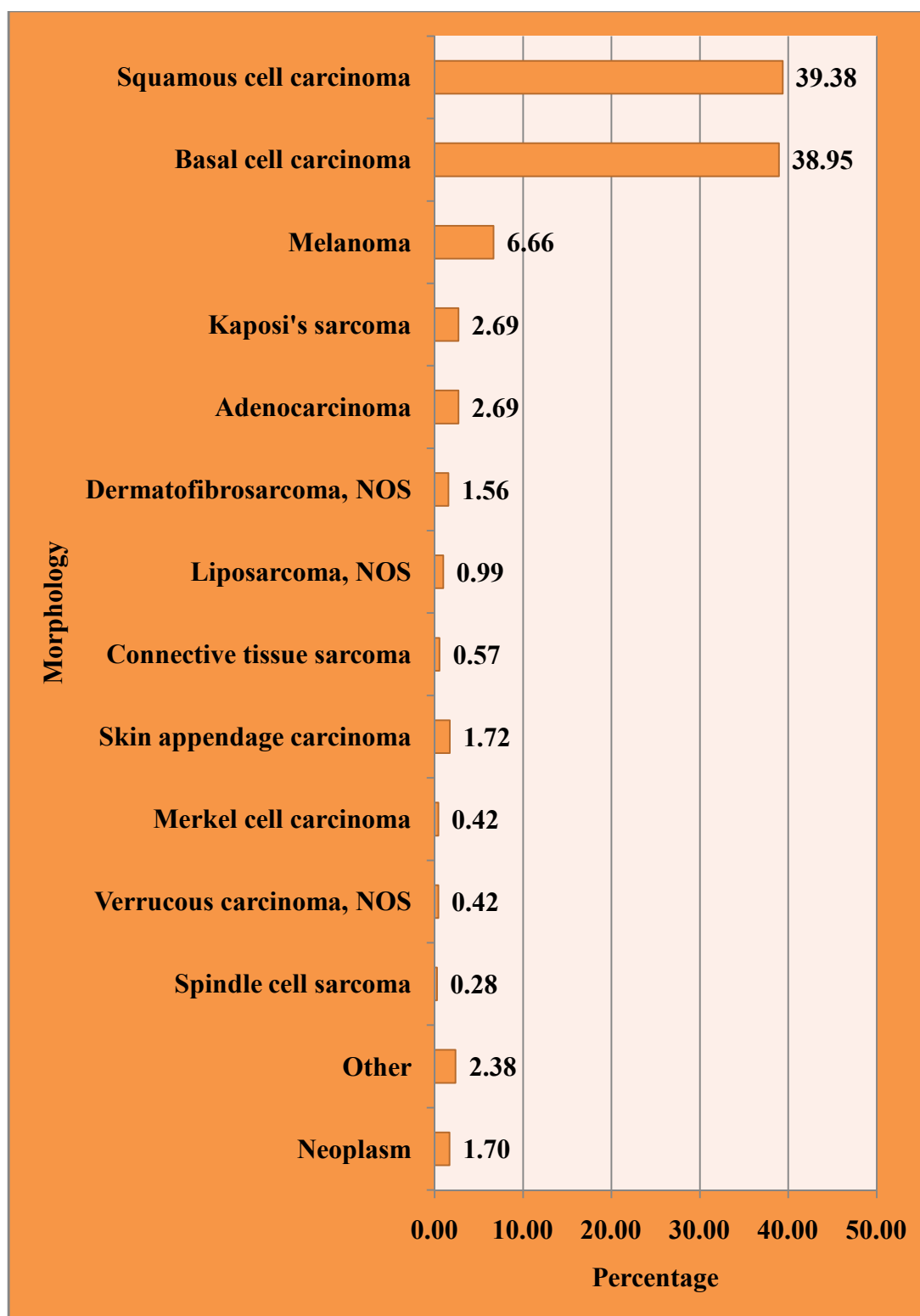


Figure No.; (76) Kidney cancer in the males by the type of morphology, Iraq, 2019

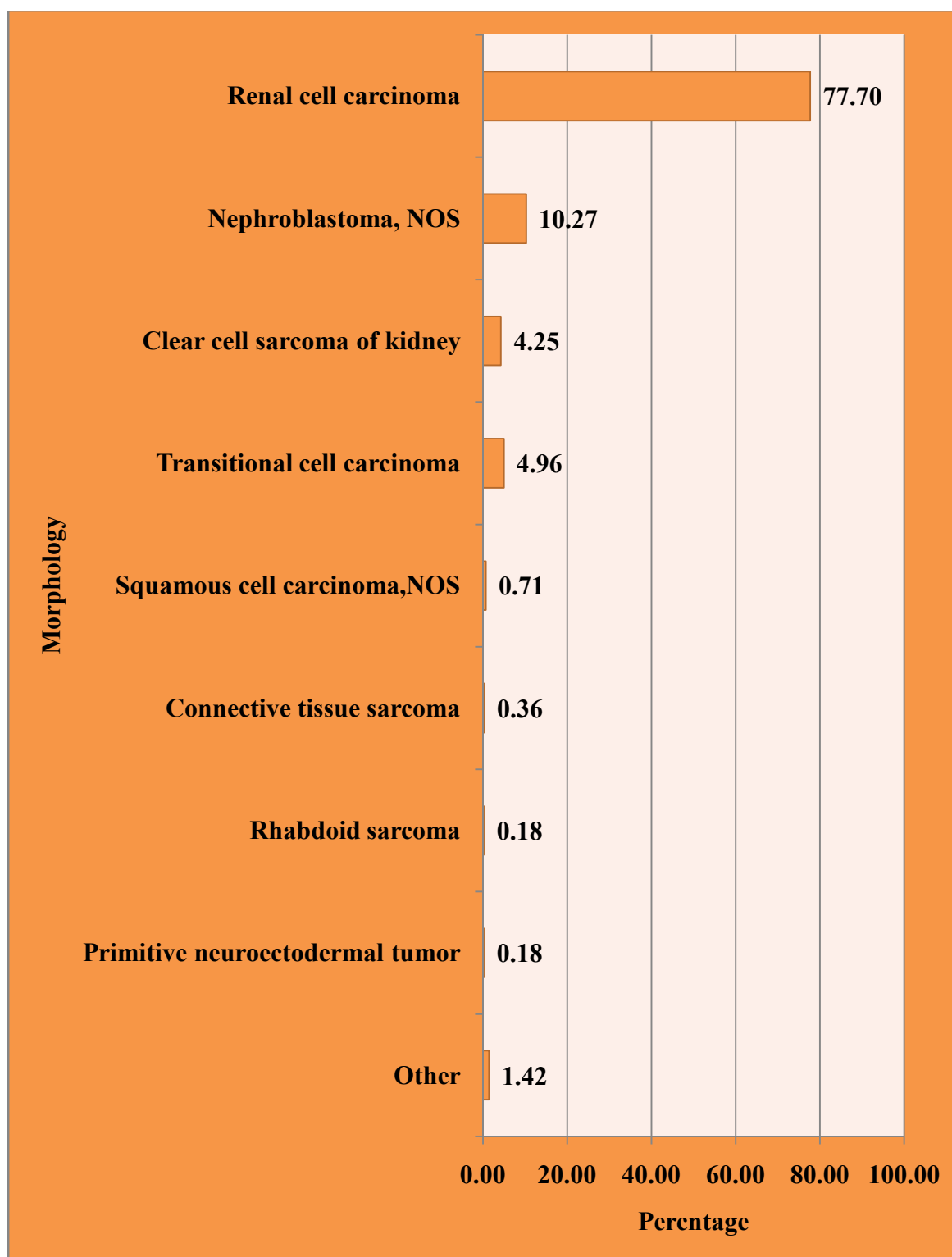
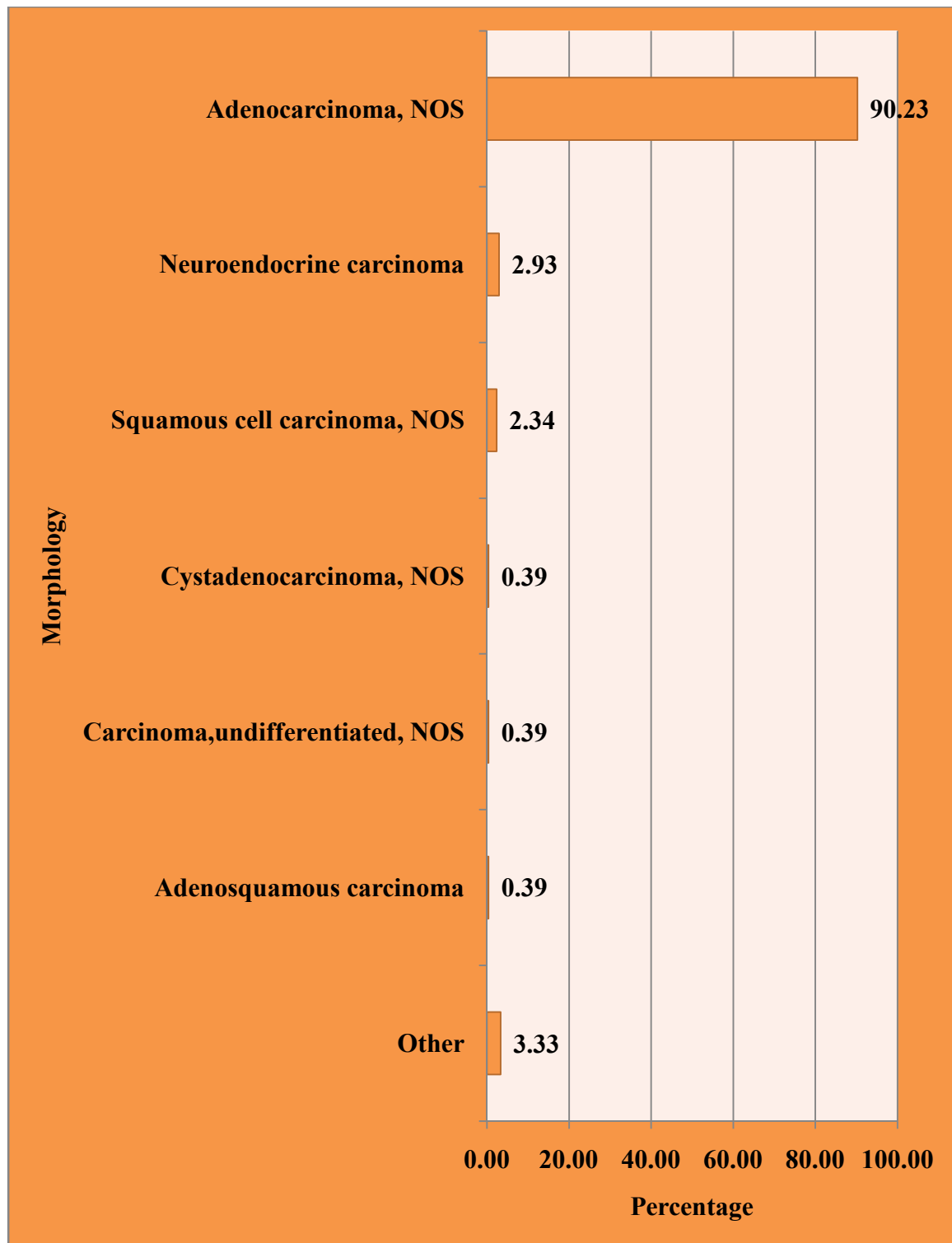


Figure No.; (77) Stomach cancer in the males by the type of morphology, Iraq, 2019



3.5.2. Morphology of the top ten cancers in the females, Iraq, 2019.

Figure No.; (78-87) shows the morphology of the top ten cancers in the females in Iraq during the year 2019

Figure No.; (78) Breast cancer in the females by the type of morphology, Iraq, 2019

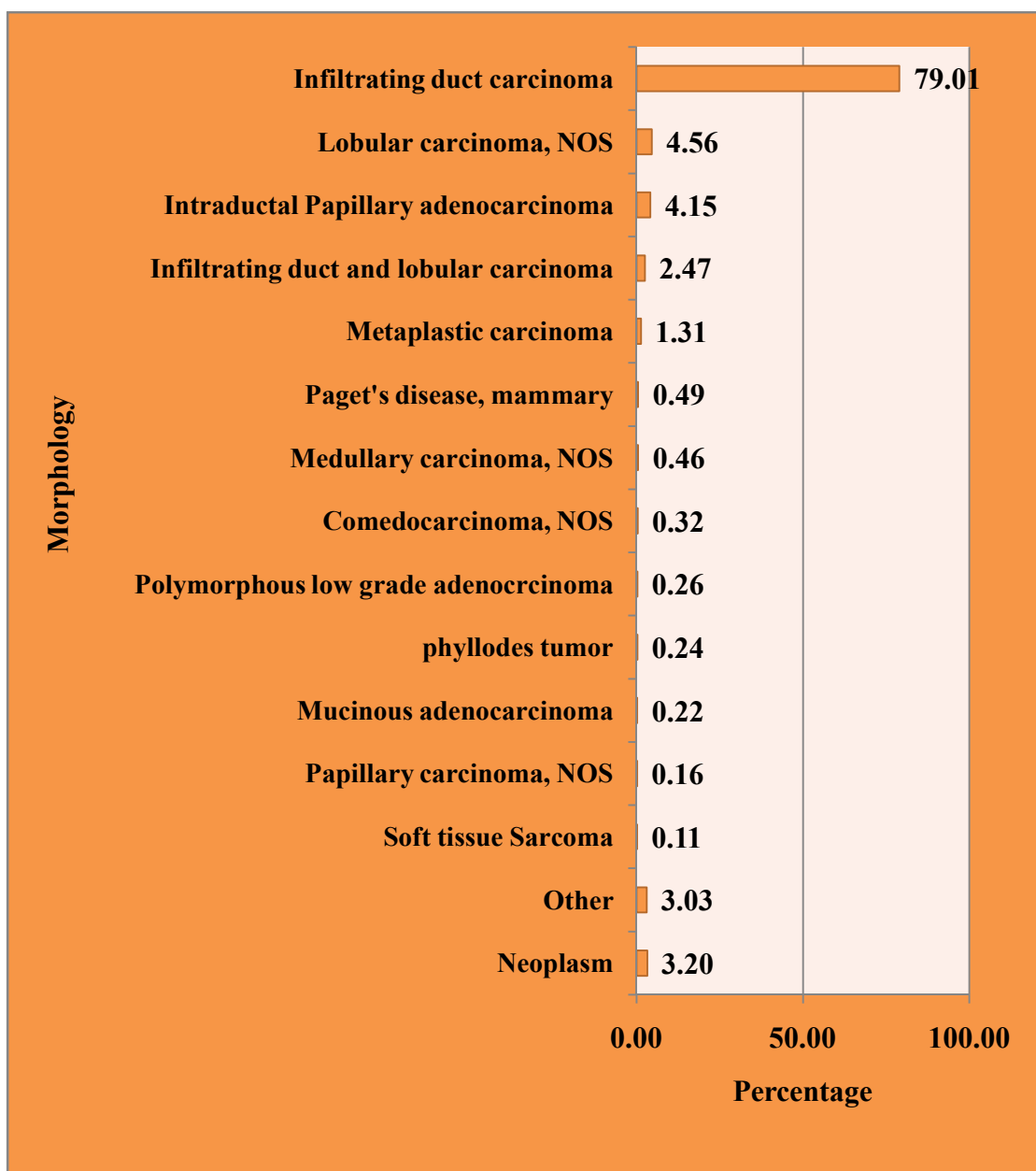


Figure No.; (79) Thyroid Gland cancer in the females by the type of morphology, Iraq, 2019

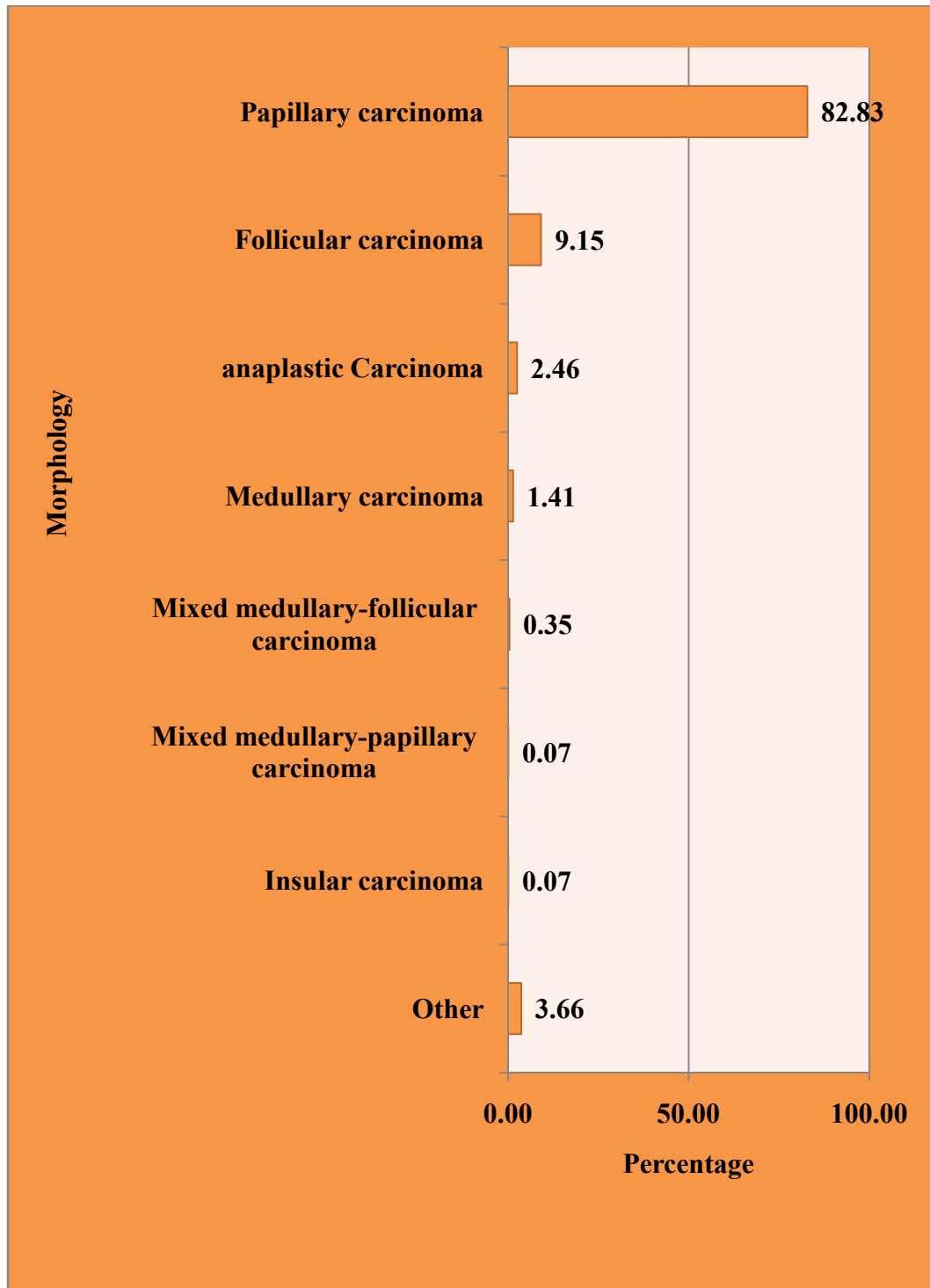


Figure No.; (80) Brain & other CNS tumor in the females by the type of morphology, Iraq, 2019

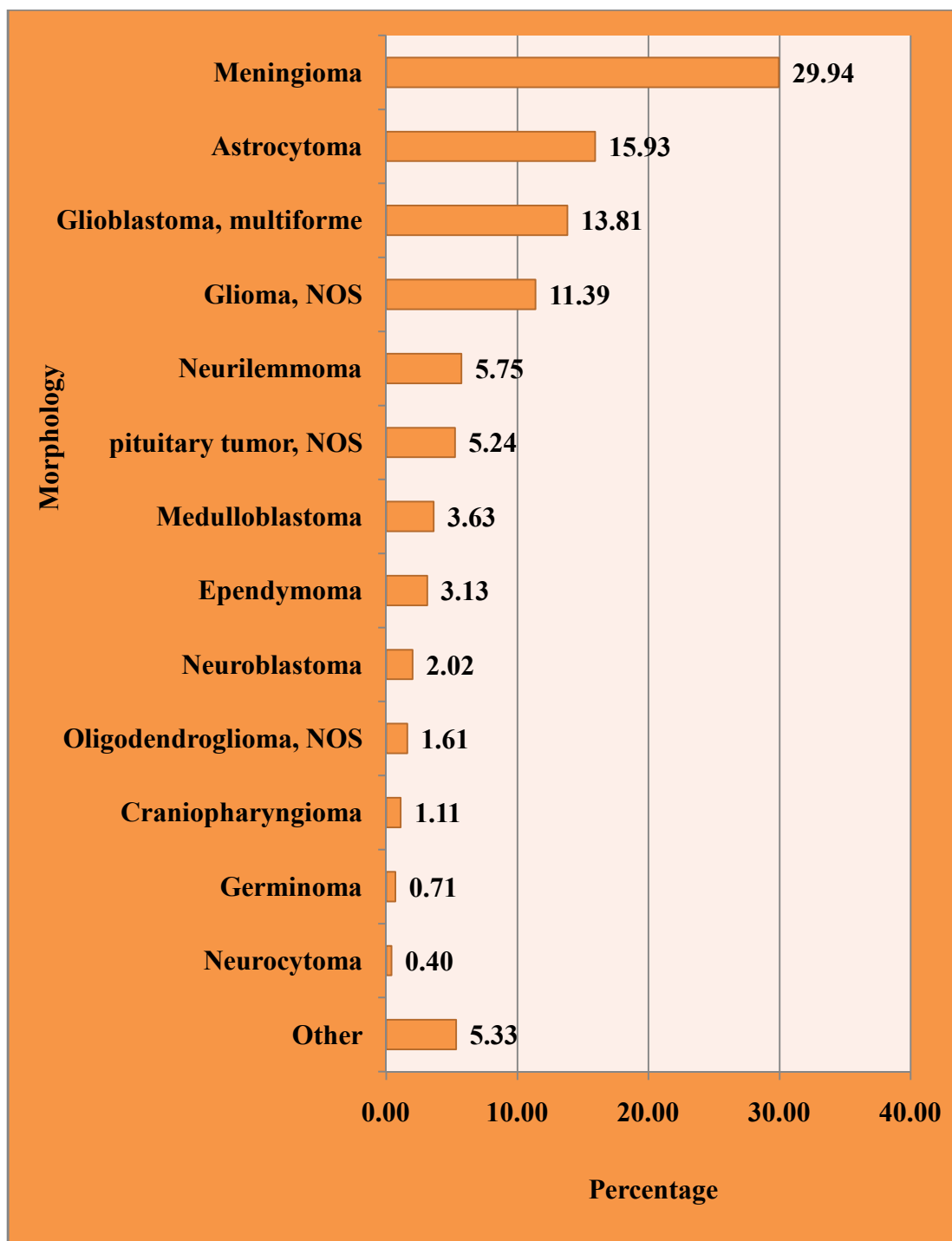


Figure No.; (81) Colorectal cancer in the females by the type of morphology, Iraq, 2019

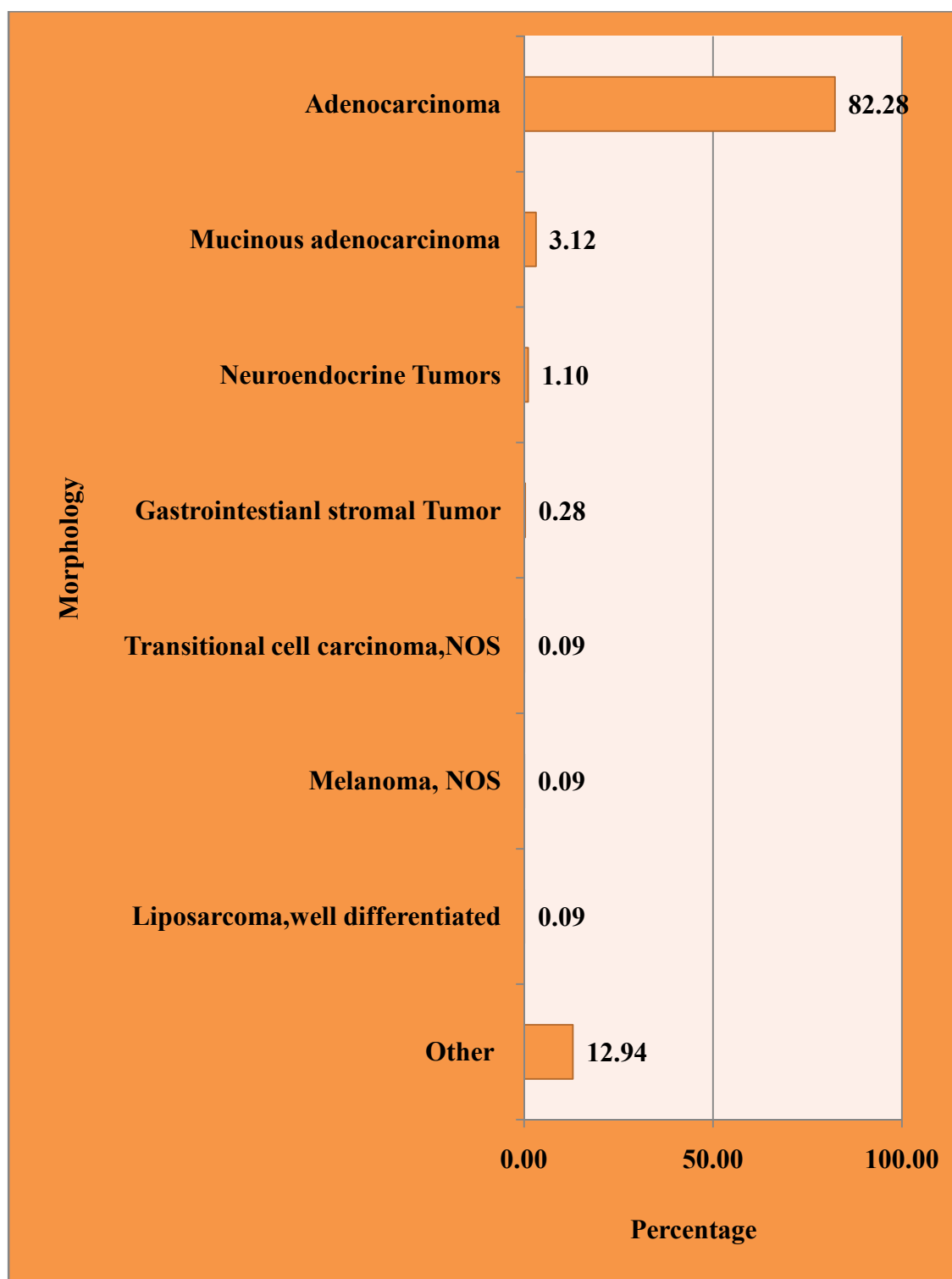


Figure No.; (82) Leukemia in the female by the type of morphology, Iraq, 2019

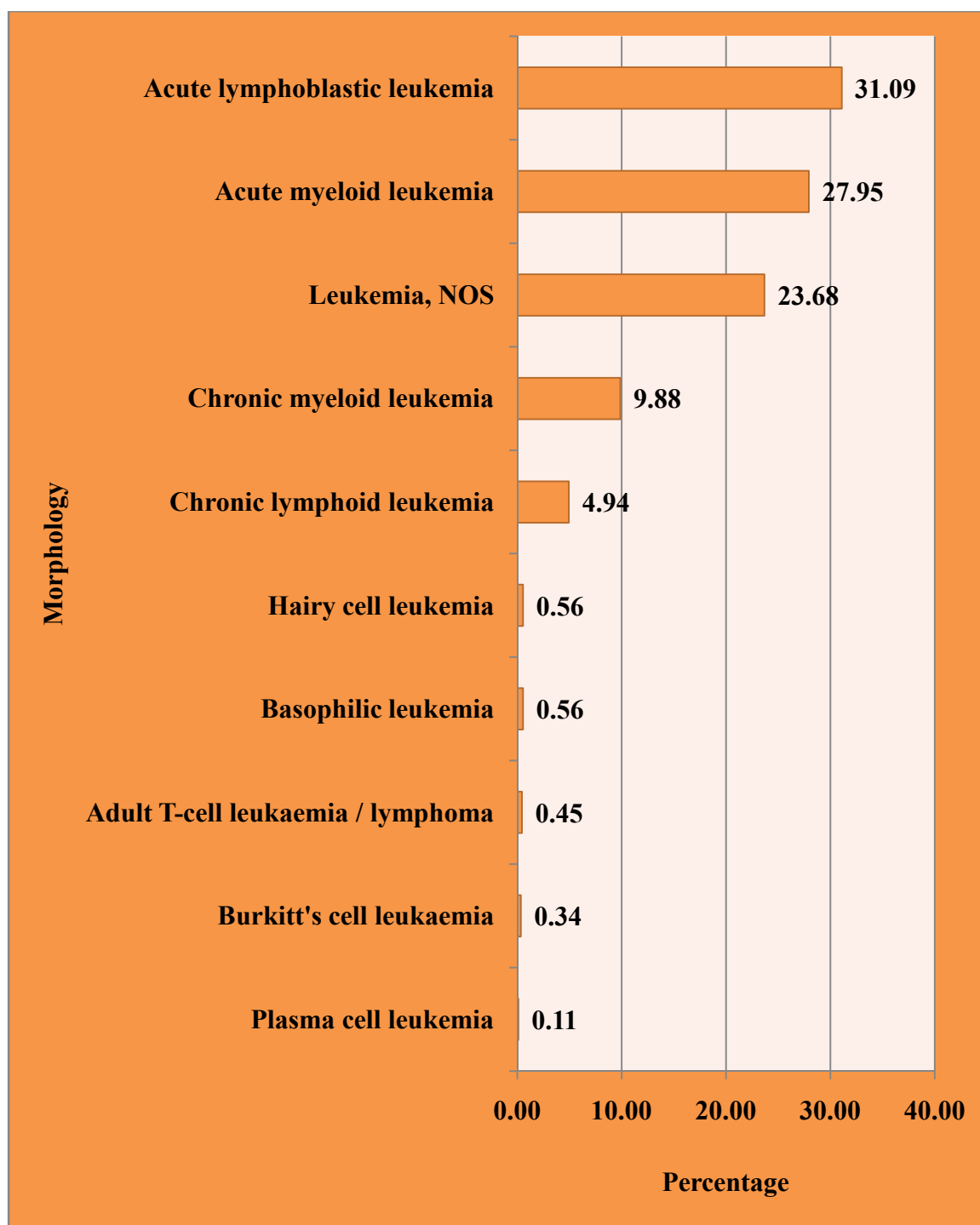


Figure No.; (83) Bronchus & Lung cancer in the females by the type of morphology, Iraq, 2019

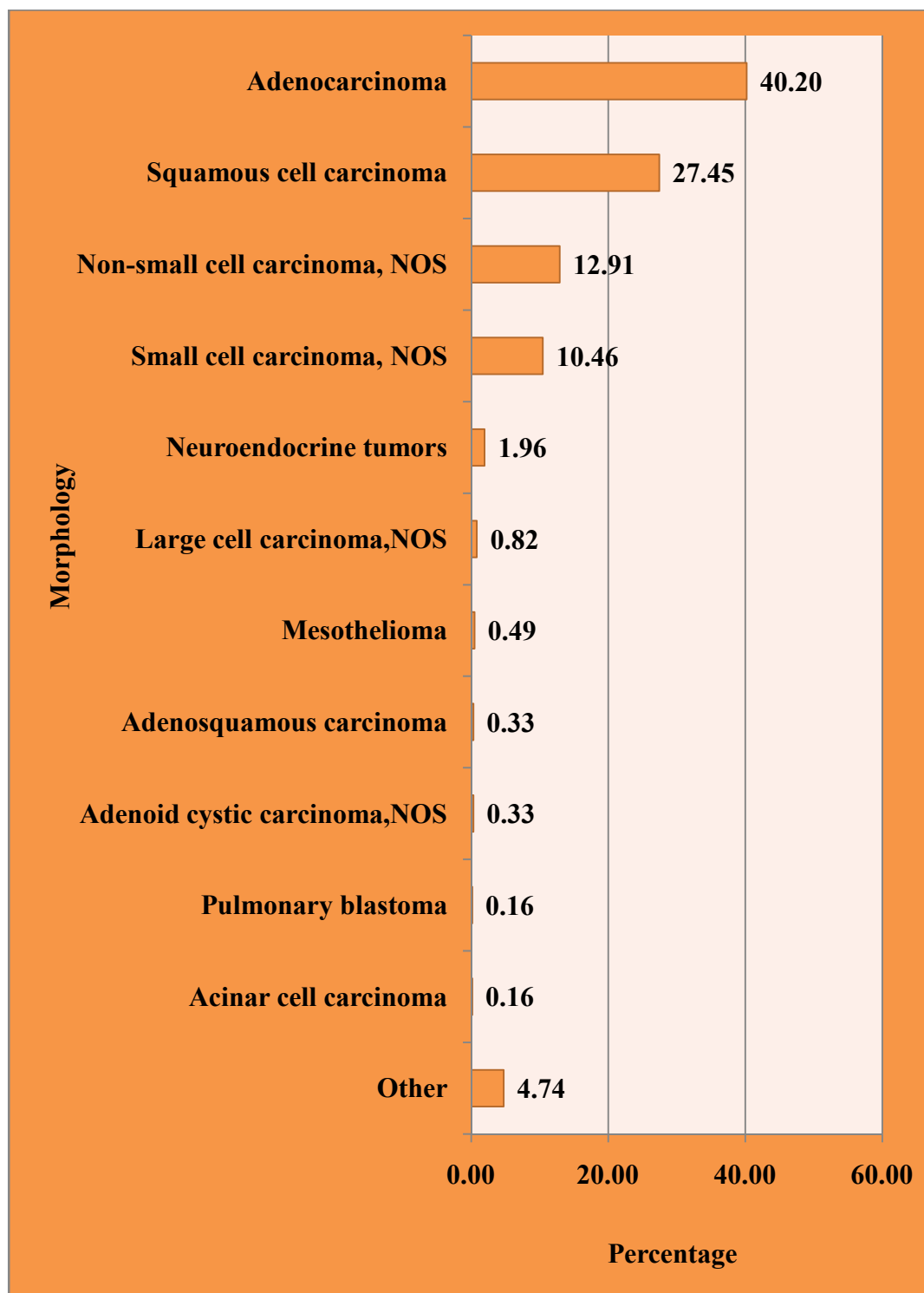


Figure No.; (84) Ovary cancer in the females by the type of morphology, Iraq, 2019

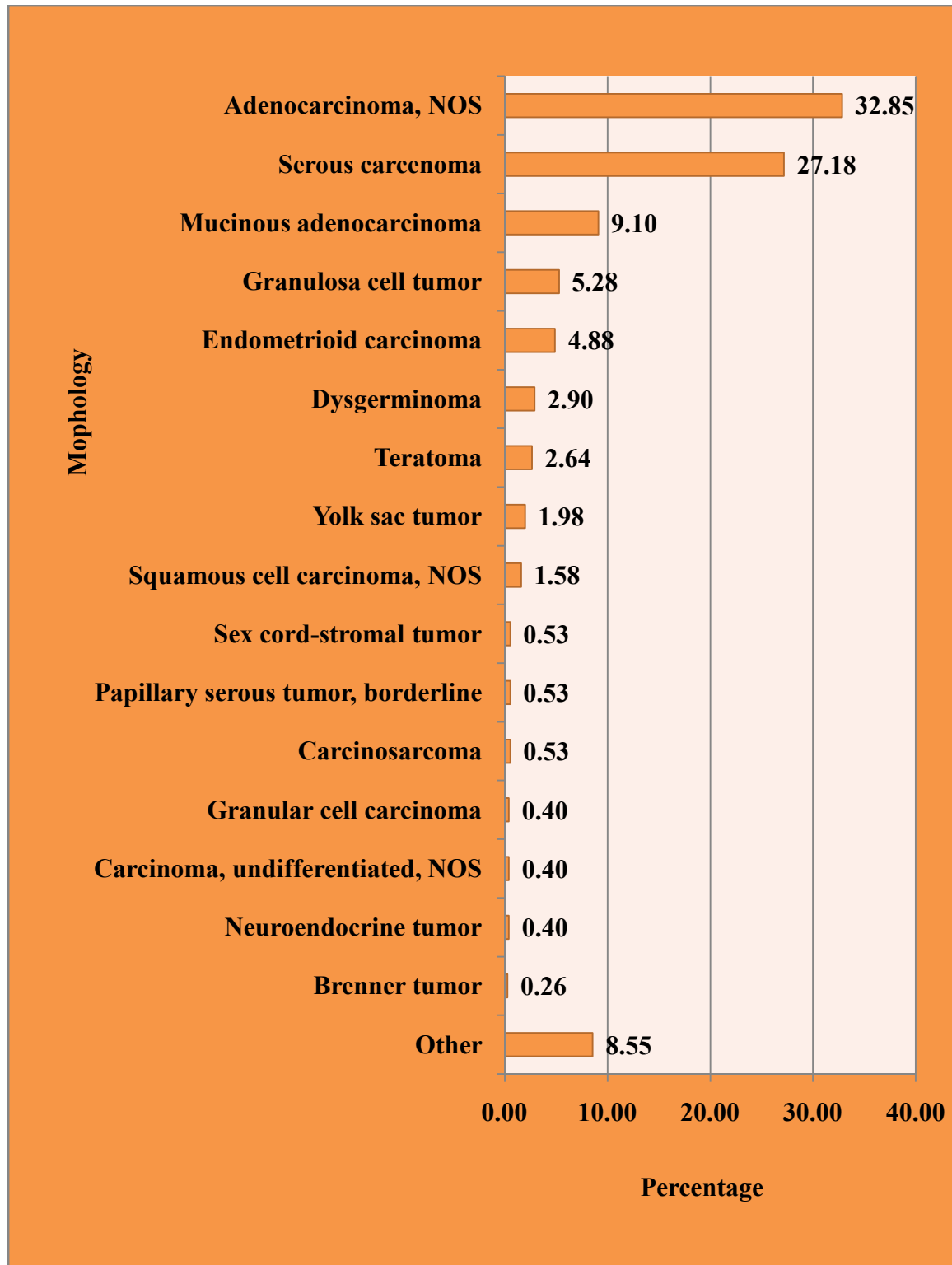
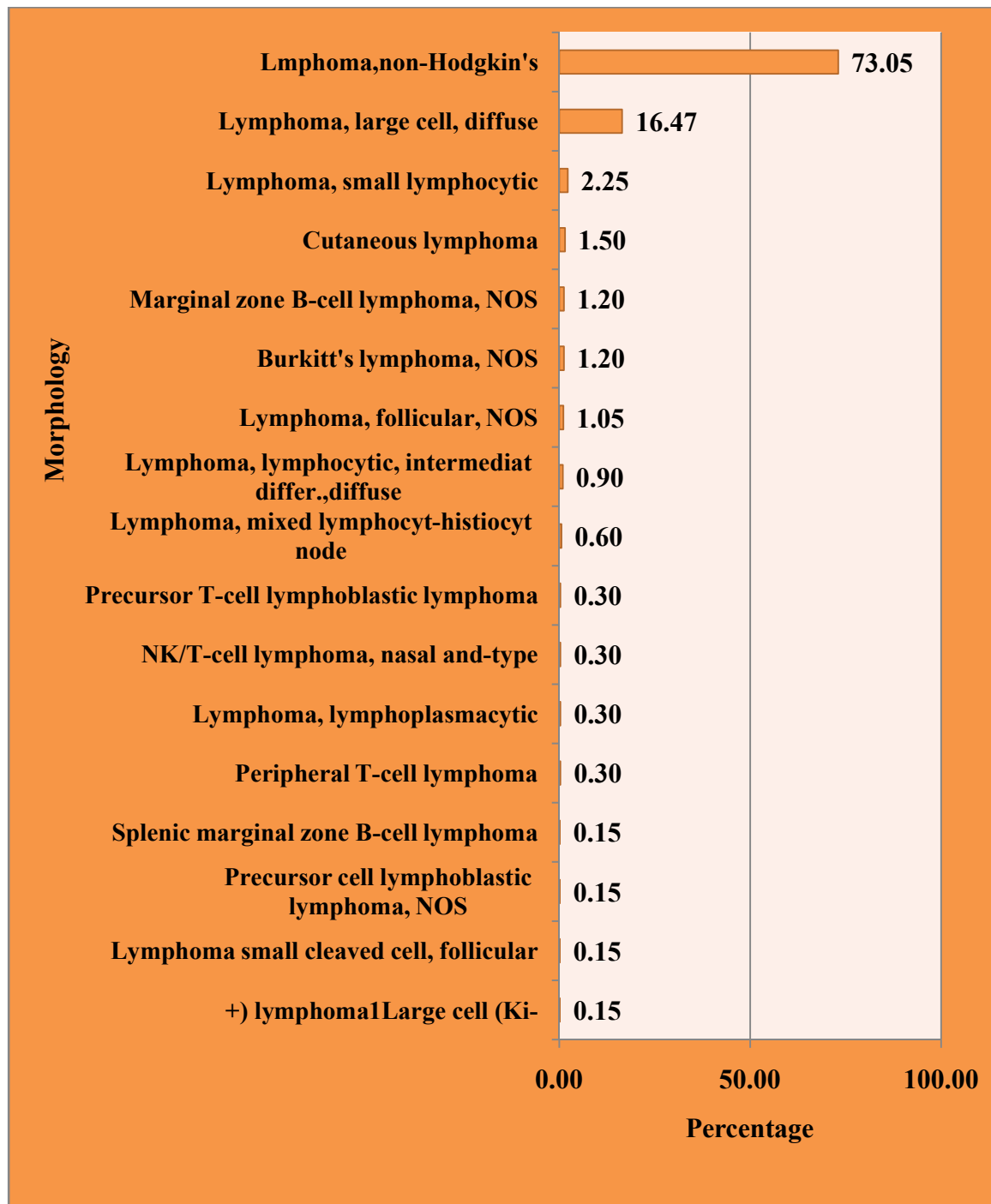
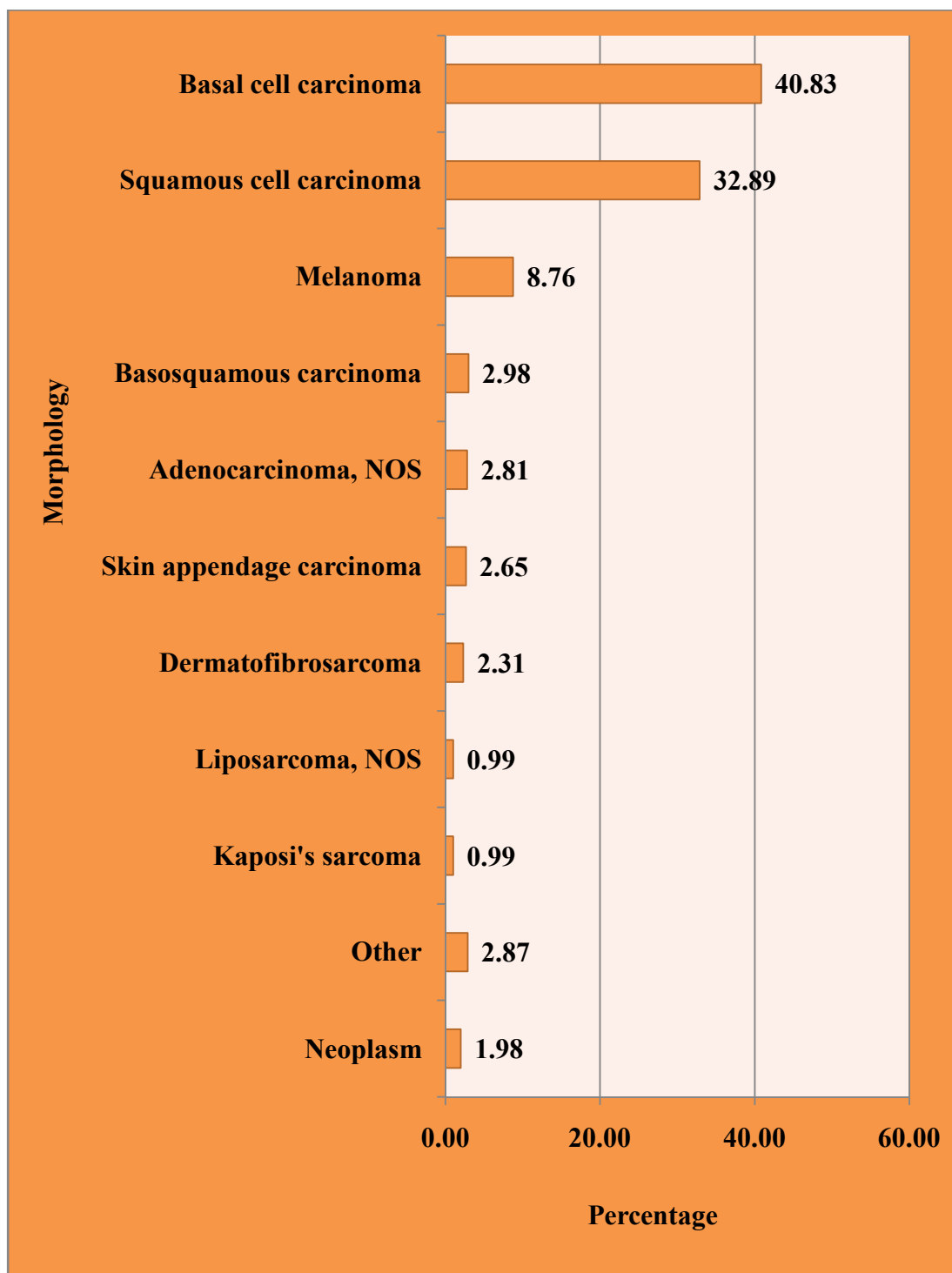


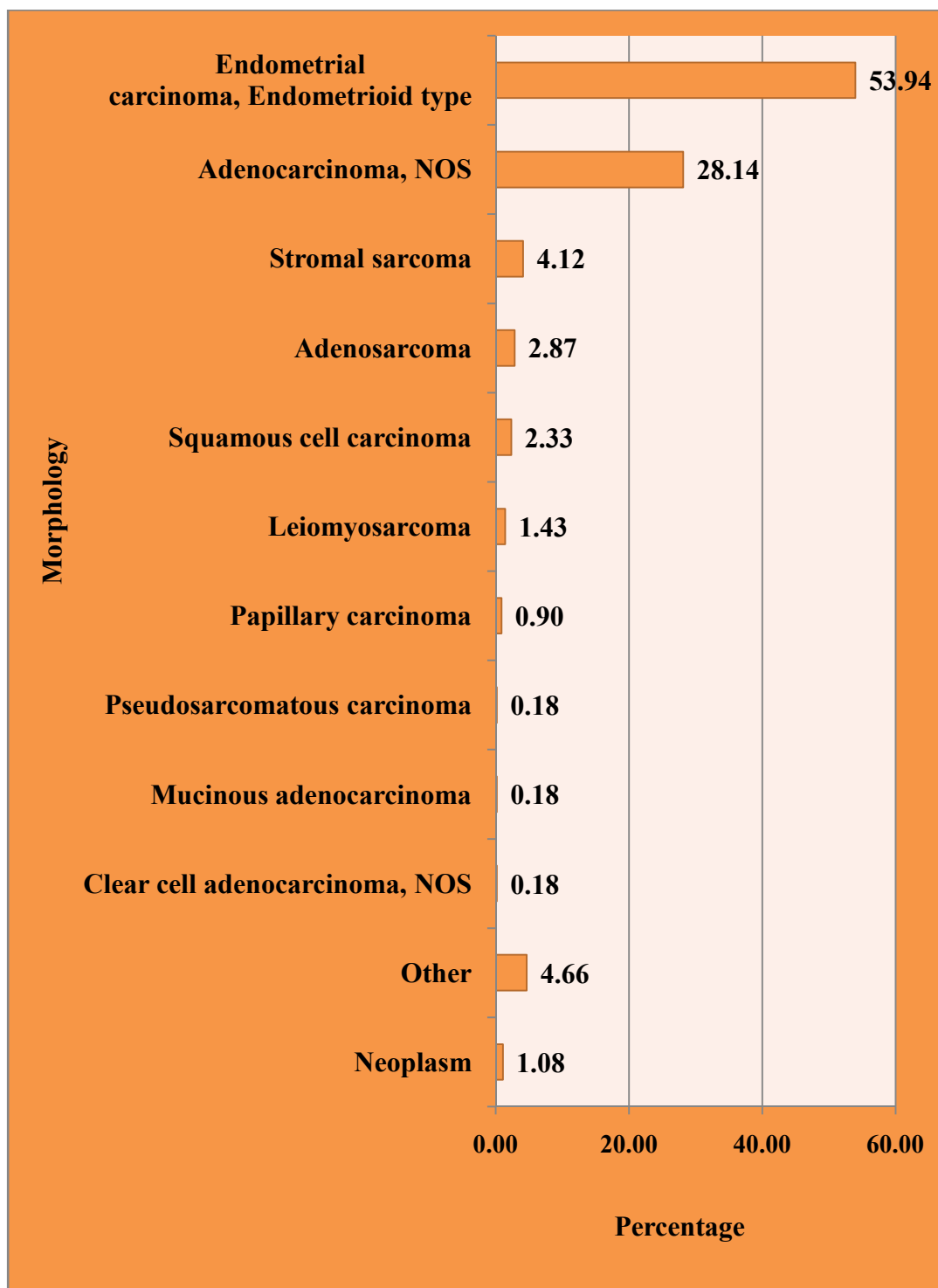
Figure No.; (85) Non-Hodgkin Lymphoma in the females by the type of morphology, Iraq, 2019



**Figure No.; (86) Skin, other cancer in the females by the type of morphology,
Iraq, 2019**



**Figure No.; (87) Corpus Uteri cancer in the females by the type of morphology,
Iraq, 2019**



Results

Child Cancer 0-14 Years

in Iraq 2019

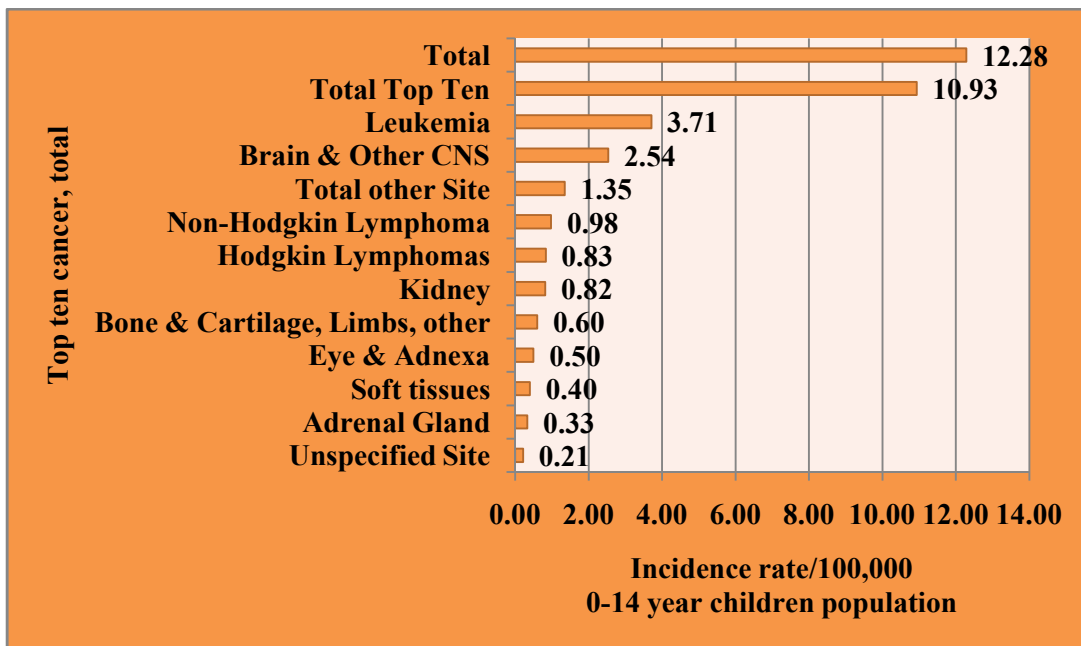
3.6. Child cancer 0-14 years in Iraq in 2019:

3.6.1. Distribution and the incidence rate of the top ten cancers in children 0-14 year, Iraq, 2019:

Table No.; (90) Distribution of top ten cancers in children 0-14 year, Iraq, 2019

Top Ten Total		No.	%
1	Leukemia	587	30.18
2	Brain & Other CNS	402	20.67
3	Non-Hodgkin Lymphoma	155	7.97
4	Hodgkin Lymphomas	132	6.79
5	Kidney	130	6.68
6	Bone & Cartilage, Limbs, other	95	4.88
7	Eye & Adnexa	79	4.06
8	Soft tissues	64	3.29
9	Adrenal Gland	53	2.72
10	Unspecified Site	34	1.75
Total Top Ten		1,731	89.00
Total other Site		214	11.00
Total		1,945	100.00%

Figure No.; (88) Incidence rate of the top ten cancers in children 0-14 year /100, 000 children 0-14 year populations, Iraq, 2019

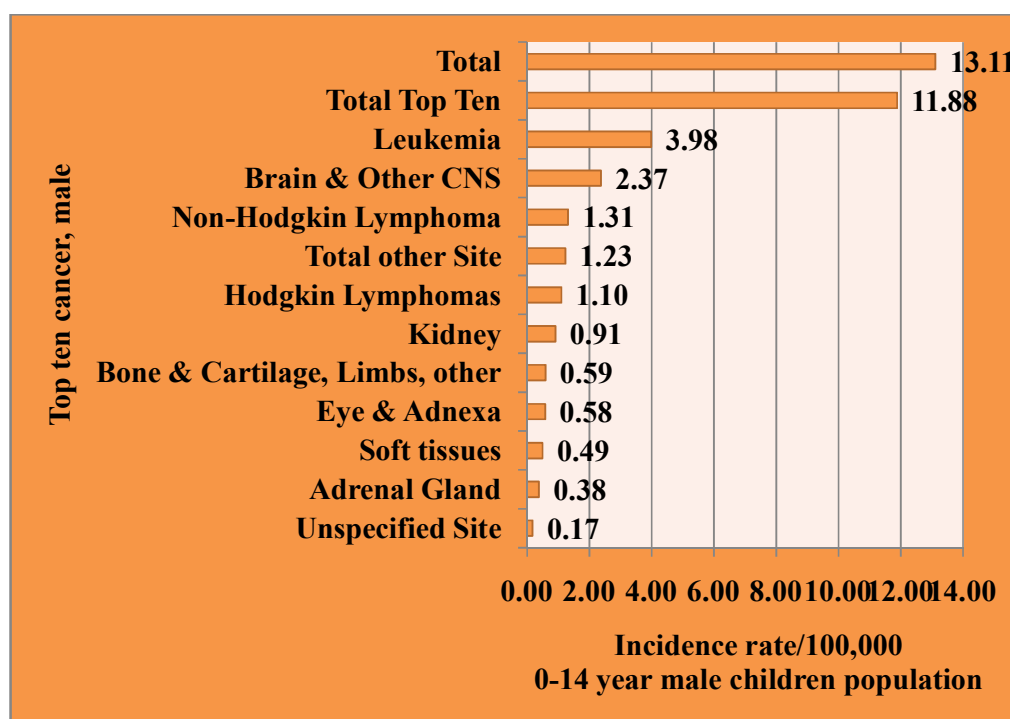


3.6.2. Distribution and the incidence rate of the top ten cancers in male children 0-14 year, Iraq, 2019:

Table No.; (91) Distribution of the top ten cancers in male children 0-14 year, Iraq, 2019

Top Ten Male	No.	%
1 Leukemia	325	30.40
2 Brain & Other CNS	193	18.05
3 Non-Hodgkin Lymphoma	107	10.01
4 Hodgkin Lymphomas	90	8.42
5 Kidney	74	6.92
6 Bone & Cartilage, Limbs, other	48	4.49
7 Eye & Adnexa	47	4.40
8 Soft tissues	40	3.74
9 Adrenal Gland	31	2.90
10 Unspecified Site	14	1.31
Total Top Ten	969	90.65
Total other Site	100	9.35
Total	1,069	100.00%

Figure No.; (89) Incidence rate of the top ten cancers in male children 0-14 year /100, 000 male children 0-14 year populations, Iraq, 2019

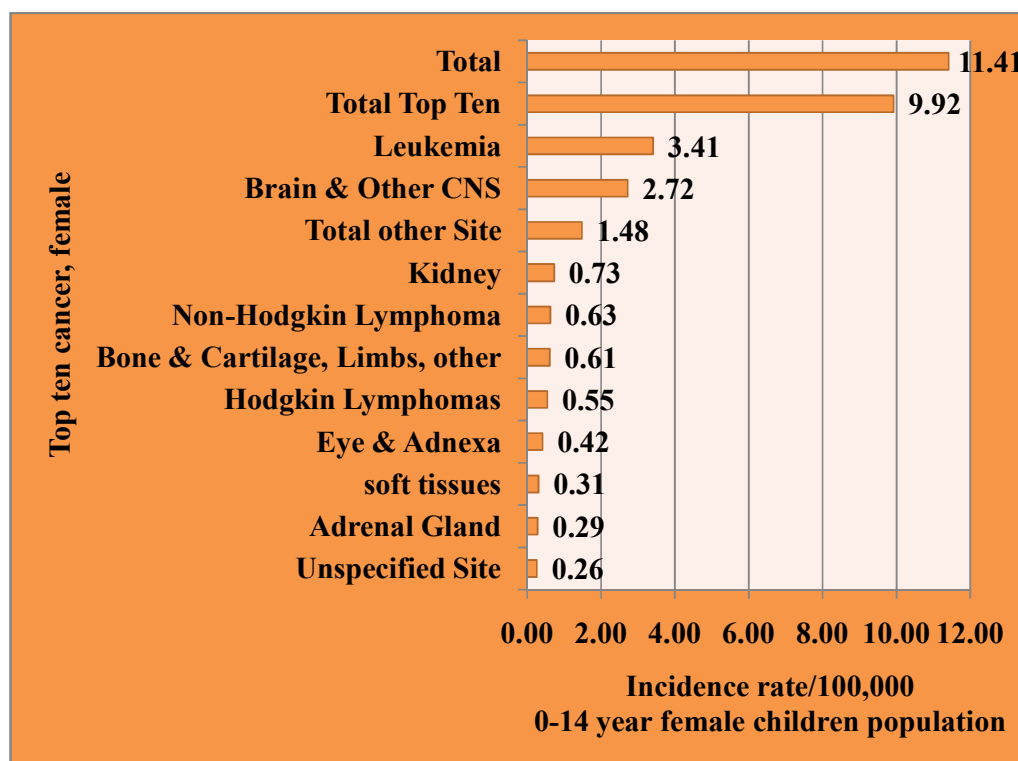


3.6.3. Distribution and the incidence rate of the top ten cancers in female children 0-14 year, Iraq, 2019:

Table No.; (92) Distribution of the top ten cancers in female children 0-14 year, Iraq, 2019

Top Ten Female		No.	%
1	Leukemia	262	29.91
2	Brain & Other CNS	209	23.86
3	Kidney	56	6.39
4	Non-Hodgkin Lymphoma	48	5.48
5	Bone & Cartilage, Limbs, other	47	5.37
6	Hodgkin Lymphomas	42	4.79
7	Eye & Adnexa	32	3.65
8	soft tissues	24	2.74
9	Adrenal Gland	22	2.51
10	Unspecified Site	20	2.28
Total Top Ten		762	86.99
Total other Site		114	13.01
Total		876	100.00%

Figure No.; (90) Incidence rate of the top ten cancers in female children 0-14 year /100, 000 female children 0-14 year populations, Iraq, 2019



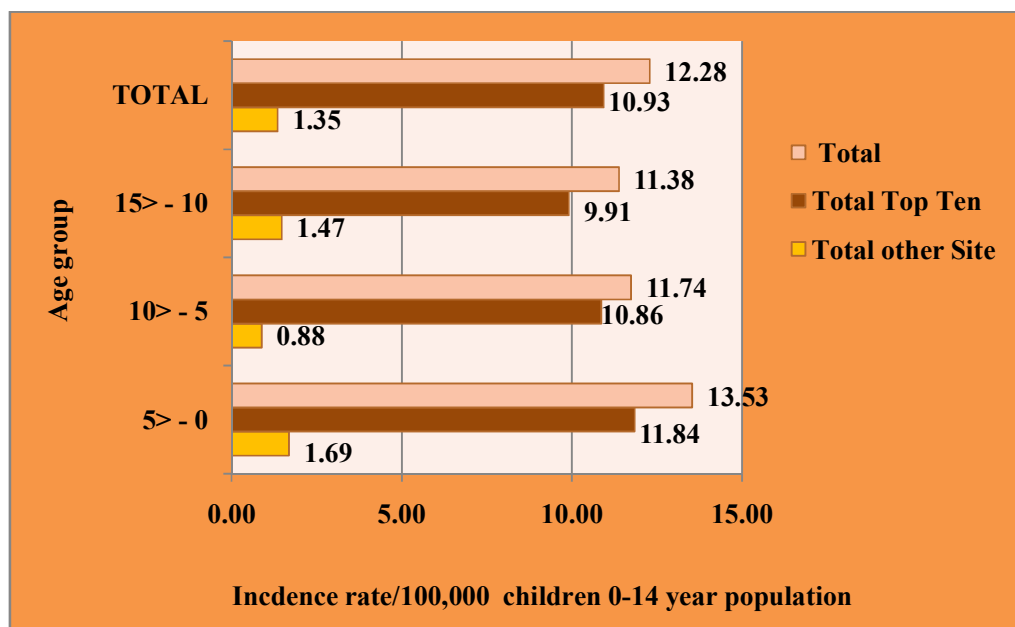
3.6.4. Distribution and the incidence rate of the top ten cancers in children 0-14year by site and age group, Iraq, 2019

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

Table No.; (93) Distribution of the top ten cancers in children 0-14 year by site and age group, Iraq, 2019

Top Ten, Total	0 - <5		5 - <10	10 - <15	Total
	0 - <1	1 - <5			
Leukemia	9	240	197	141	587
Brain & Other CNS	4	109	156	133	402
Non-Hodgkin Lymphoma	0	58	54	43	155
Hodgkin Lymphomas	0	20	55	57	132
Kidney	6	76	39	9	130
Bone & Cartilage, Limbs, other	2	8	23	62	95
Eye & Adnexa	5	60	12	2	79
soft tissues	3	24	21	16	64
Adrenal Gland	8	29	14	2	53
Unspecified Site	3	16	9	6	34
Total Top Ten	40	640	580	471	1,731
Total other Site	5	92	47	70	214
Total	45	732	627	541	1,945
Percentage	2.31	37.63	32.24	27.81	100.00

Figure No.; (91) Incidence rate of the top ten cancers in children 0-14 year /100,000 children 0-14 year populations by age group, Iraq, 2019



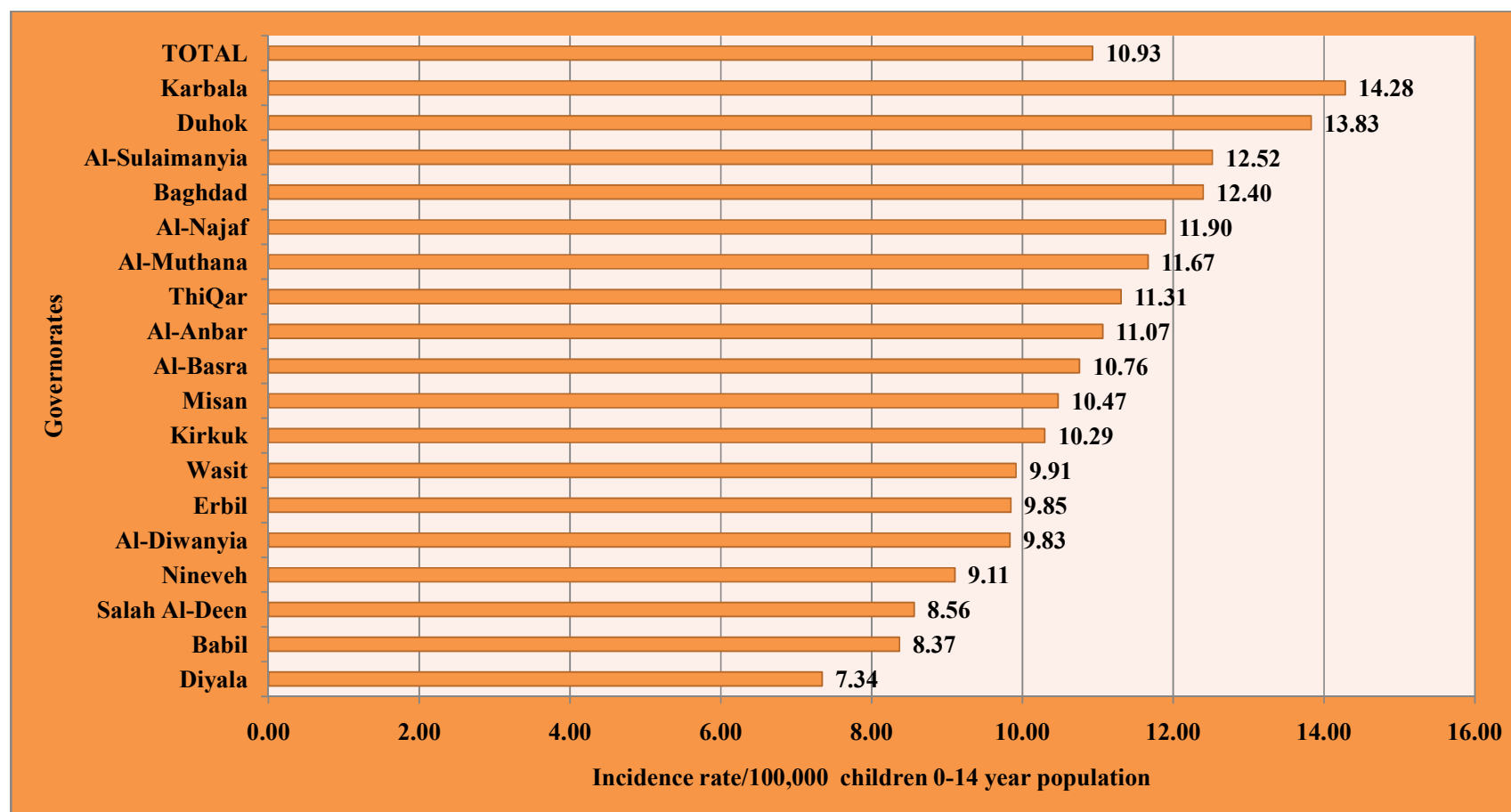
3.6.5. Distribution of the top ten cancers in children 0-14year by site and governorates, Iraq, 2019:

Table No.; (94), Figure No.; (92) shows the distribution and the incidence rate of the top ten cancers in Iraq in children by site and governorates.

Table No.; (94) Distribution of the top ten cancers in children 0-14year by site and governorates, Iraq, 2019

Top Ten, Total	Al-Anbar	Al-Basra	Al-Diwanyia	Al-Muthana	Al-Najaf	Al-Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah Al-Deen	ThiQar	Wasit	Un.	Total
Leukemia	21	44	20	12	22	33	36	127	14	29	26	32	26	24	49	15	31	26	0	587
Brain & Other CNS	18	27	10	13	24	30	11	97	17	16	8	17	10	5	26	9	34	11	19	402
Non-Hodgkin Lymphoma	13	16	9	4	11	3	7	22	4	5	5	4	8	4	17	11	7	5	0	155
Hodgkin Lymphomas	15	6	5	3	2	1	5	32	2	8	7	7	5	3	16	8	6	1	0	132
Kidney	4	14	2	2	4	6	3	26	6	6	7	3	2	7	18	4	7	8	1	130
Bone & Cartilage, Limbs, other	6	9	3	3	4	10	3	18	3	5	7	3	5	2	5	4	4	1	0	95
Eye & Adnexa	3	6	2	1	3	2	4	27	2	2	2	2	2	3	5	3	8	2	0	79
soft tissues	4	9	1	2	2	4	2	13	0	3	1	4	5	1	9	2	2	0	0	64
Adrenal Gland	0	7	0	1	1	3	1	8	0	1	6	1	3	3	8	3	4	3	0	53
Unspecified Site	1	1	4	1	2	1	2	12	1	0	2	0	0	1	1	1	2	2	0	34
Total	85	139	56	42	75	93	74	382	49	75	71	73	66	53	154	60	105	59	20	1,731
Percentage	4.91	8.03	3.24	2.43	4.33	5.37	4.27	22.07	2.83	4.33	4.10	4.22	3.81	3.06	8.90	3.47	6.07	3.41	1.16	100.00

Figure No.; (92) Incidence rate of the top ten cancers in children 0-14 year /100,000 children 0-14 year populations by governorates, Iraq, 2019



3.6.6. Distribution and incidence rate of cancer in children 0-14 year by site, ICD-O and gender, Iraq, 2019:

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, 2019

ICD-O code / Site of tumor	Female			Male			Total			
	No.	%	IR	No.	%	IR	No.	%	IR	
C02 / Tongue, other	1	0.05	0.01	1	0.05	0.01	2	0.10	0.01	
C07 / Parotid Gland	3	0.15	0.04	3	0.15	0.04	6	0.31	0.04	
C08 / Mouth Glands	2	0.10	0.03	0	0.00	0.00	2	0.10	0.01	
C09 / Tonsil	0	0.00	0.00	1	0.05	0.01	1	0.05	0.01	
C10 / Oropharynx	2	0.10	0.03	1	0.05	0.01	3	0.15	0.02	
C11 / Nasopharynx	2	0.10	0.03	6	0.31	0.07	8	0.41	0.05	
C14 / Pharynx	0	0.00	0.00	1	0.05	0.01	1	0.05	0.01	
C16 / Stomach	2	0.10	0.03	2	0.10	0.02	4	0.21	0.03	
C18 / Colon	0	0.00	0.00	1	0.05	0.01	1	0.05	0.01	
C20 / Rectum	1	0.05	0.01	0	0.00	0.00	1	0.05	0.01	
C22 / Liver & Bile Ducts	10	0.51	0.13	13	0.67	0.16	23	1.18	0.15	
C25 / Pancreas	0	0.00	0.00	1	0.05	0.01	1	0.05	0.01	
C26 / Other Digestive organs	1	0.05	0.01	1	0.05	0.01	2	0.10	0.01	
C30 / Nasal Cavity	1	0.05	0.01	1	0.05	0.01	2	0.10	0.01	
C32 / Larynx	2	0.10	0.03	3	0.15	0.04	5	0.26	0.03	
C34 / Bronchus & Lung	0	0.00	0.00	1	0.05	0.01	1	0.05	0.01	
C38 / Heart, Mediastinum, Pleura	6	0.31	0.08	4	0.21	0.05	10	0.51	0.06	
C39 / Other Respiratory & Thoracic	1	0.05	0.01	0	0.00	0.00	1	0.05	0.01	
C40 / Bone & Cartilage, Limbs	27	1.39	0.35	22	1.13	0.27	49	2.52	0.31	
C41 / Bones & Cartilage, other	20	1.03	0.26	26	1.34	0.32	46	2.37	0.29	
C42 / Reticulo Endothelial & Hemato poietic System	Chronic Myelo proliferative Disorders	1	0.05	0.01	1	0.05	0.01	2	0.10	0.01
	Leukemia	262	13.47	3.41	325	16.71	3.98	587	30.18	3.71
	Myelodys Plastic Syndromes	2	0.10	0.03	2	0.10	0.02	4	0.21	0.03
	Plasma Cell Tumor	0	0.00	0.00	1	0.05	0.01	1	0.05	0.01
C44 / Skin, other	8	0.41	0.10	5	0.26	0.06	13	0.67	0.08	
C47 /Nerves System	14	0.72	0.18	10	0.51	0.12	24	1.23	0.15	
C48 / Peritoneum	7	0.36	0.09	4	0.21	0.05	11	0.57	0.07	
C49 / soft tissues	24	1.23	0.31	40	2.06	0.49	64	3.29	0.40	
C52 / Vagina	2	0.10	0.03	0	0.00	0.00	2	0.10	0.03	
C56 / Ovary	18	0.93	0.23	0	0.00	0.00	18	0.93	0.23	
C57 / Female genital, other	2	0.10	0.03	0	0.00	0.00	2	0.10	0.03	

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C62 / Testis		0	0.00	0.00	11	0.57	0.13	11	0.57	0.13
C63 / Male genital, other		0	0.00	0.00	2	0.10	0.02	2	0.10	0.02
C64 / Kidney		56	2.88	0.73	74	3.80	0.91	130	6.68	0.82
C67 / Urinary Bladder		3	0.15	0.04	11	0.57	0.13	14	0.72	0.09
C69 / Eye & Adnexa		32	1.65	0.42	47	2.42	0.58	79	4.06	0.50
C70 / Meninges		4	0.21	0.05	5	0.26	0.06	9	0.46	0.06
C71 / Brain		190	9.77	2.47	168	8.64	2.06	358	18.41	2.26
C72 / Nervous System, other		11	0.57	0.14	7	0.36	0.09	18	0.93	0.11
C73 / Thyroid Gland		14	0.72	0.18	2	0.10	0.02	16	0.82	0.10
C74 / Adrenal gland		22	1.13	0.29	31	1.59	0.38	53	2.72	0.33
C75 / Endocrine Gland, other		4	0.21	0.05	13	0.67	0.16	17	0.87	0.11
C76 / Unspecified Site		20	1.03	0.26	14	0.72	0.17	34	1.75	0.21
C77 / Lymph nodes	Hodgkin Lymphoma	42	2.16	0.55	90	4.63	1.10	132	6.79	0.83
	Non-Hodgkin Lymphoma	48	2.47	0.63	107	5.50	1.31	155	7.97	0.98
C80 / Unknown Primary Site		9	0.46	0.12	11	0.57	0.13	20	1.03	0.13
Total		876	45.04	11.41	1,069	54.96	13.11	1,945	100.00	12.28

Results

Cancer Mortality in Iraq *2019*

3.7. Cancer mortality in Iraq in 2019:

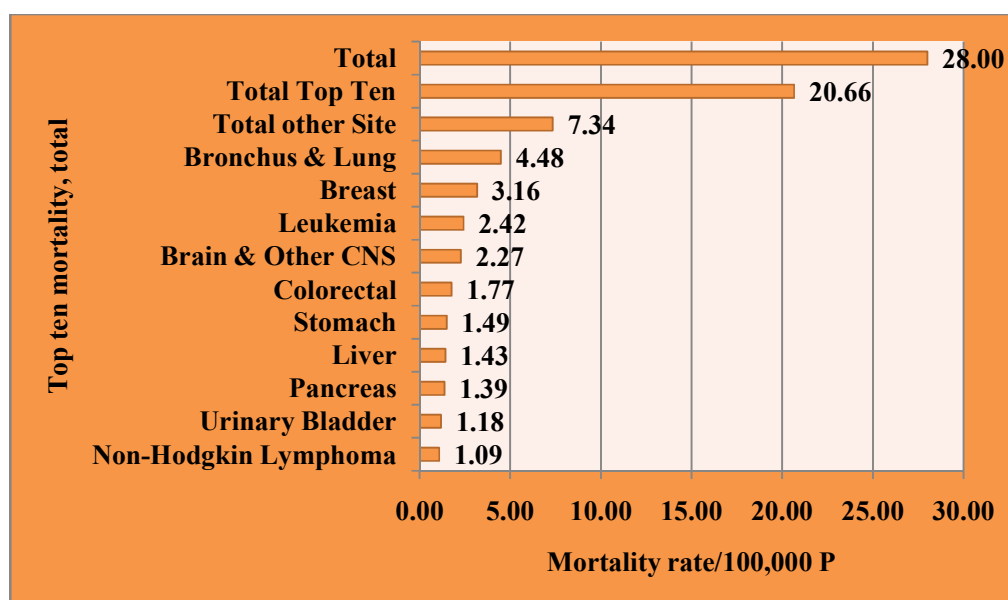
3.7.1. Distribution and the mortality rate of the top ten cancers, Iraq, 2019:

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

Table No.; (96) Distribution of the top ten cancers mortality, Iraq, 2019

Top Ten Total		No.	%
1	Bronchus & Lung	1,752	15.99
2	Breast	1,237	11.29
3	Leukemia	946	8.63
4	Brain & Other CNS	889	8.11
5	Colorectal	691	6.31
6	Stomach	583	5.32
7	Liver	558	5.09
8	Pancreas	542	4.95
9	Urinary Bladder	462	4.22
10	Non-Hodgkin Lymphoma	425	3.88
Total Top Ten		8,085	73.79
Total other Site		2872	26.21
Total		10,957	100.00%

Figure No.; (93) Mortality rate of the top ten cancers in Iraq/ 100,000 populations, 2019



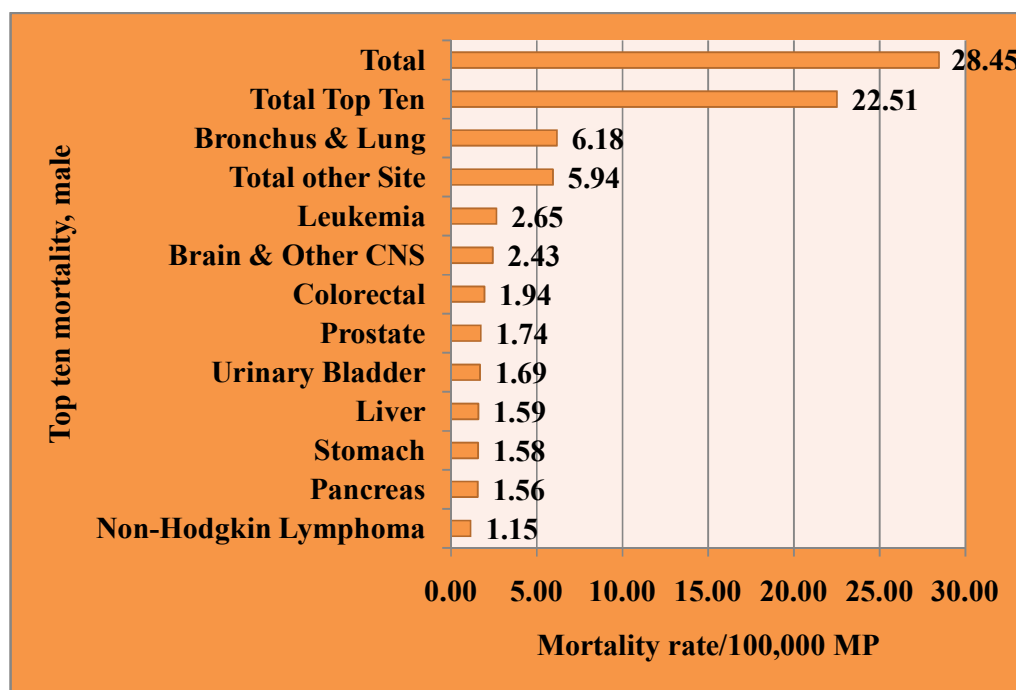
3.7.2. Distribution and the mortality rate of the top ten cancers in male, Iraq, 2019:

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

Table No.; (97) Distribution of the top ten cancers mortality in males, Iraq, 2019

Top Ten Male	No.	%
1 Bronchus & Lung	1,221	21.71
2 Leukemia	523	9.30
3 Brain & Other CNS	481	8.55
4 Colorectal	384	6.83
5 Prostate	343	6.10
6 Urinary Bladder	334	5.94
7 Liver	314	5.58
8 Stomach	313	5.57
9 Pancreas	309	5.49
10 Non-Hodgkin Lymphoma	227	4.04
Total Top Ten	4,449	79.11
Total other Site	1,175	20.89
Total	5,624	100.00%

Figure No.; (94) Mortality rate of the top ten cancers in male/ 100,000 male populations, Iraq, 2019



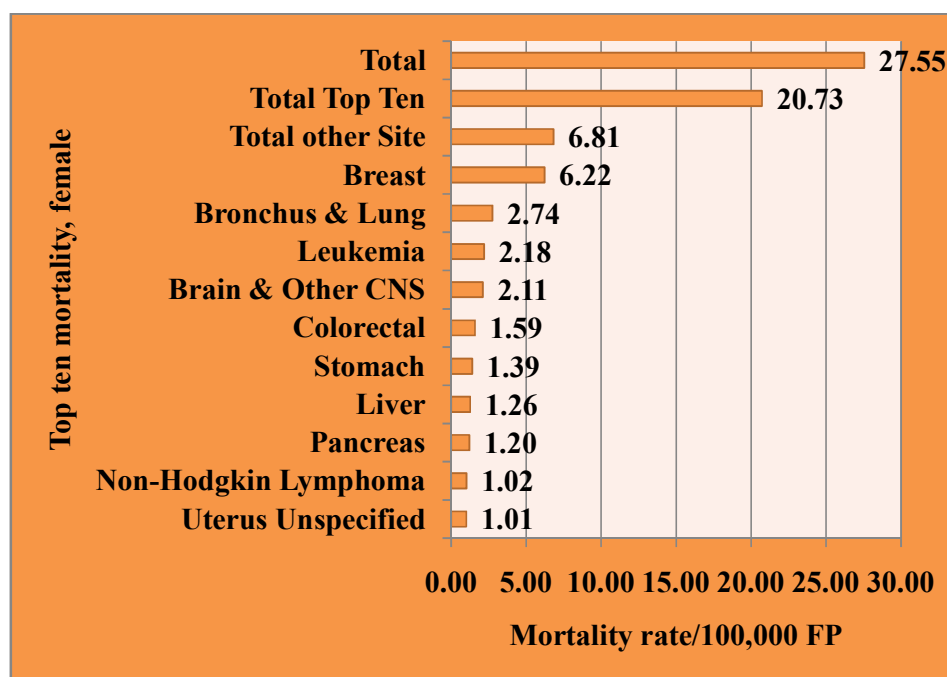
3.7.3. Distribution and the mortality rate of the top ten cancers in female, Iraq, 2019:

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

Table No. (98) Distribution of the top ten cancers mortality in female, Iraq, 2019

Top Ten Female	No.	%
1 Breast	1,204	22.58
2 Bronchus & Lung	531	9.96
3 Leukemia	423	7.93
4 Brain & Other CNS	408	7.65
5 Colorectal	307	5.76
6 Stomach	270	5.06
7 Liver	244	4.58
8 Pancreas	233	4.37
9 Non-Hodgkin Lymphoma	198	3.71
10 Uterus Unspecified	196	3.68
Total Top Ten	4,014	75.27
Total other Site	1,319	24.73
Total	5,333	100.00%

Figure No.; (95) Mortality rate of the top ten cancers in female/ 100,000 female populations, Iraq, 2019



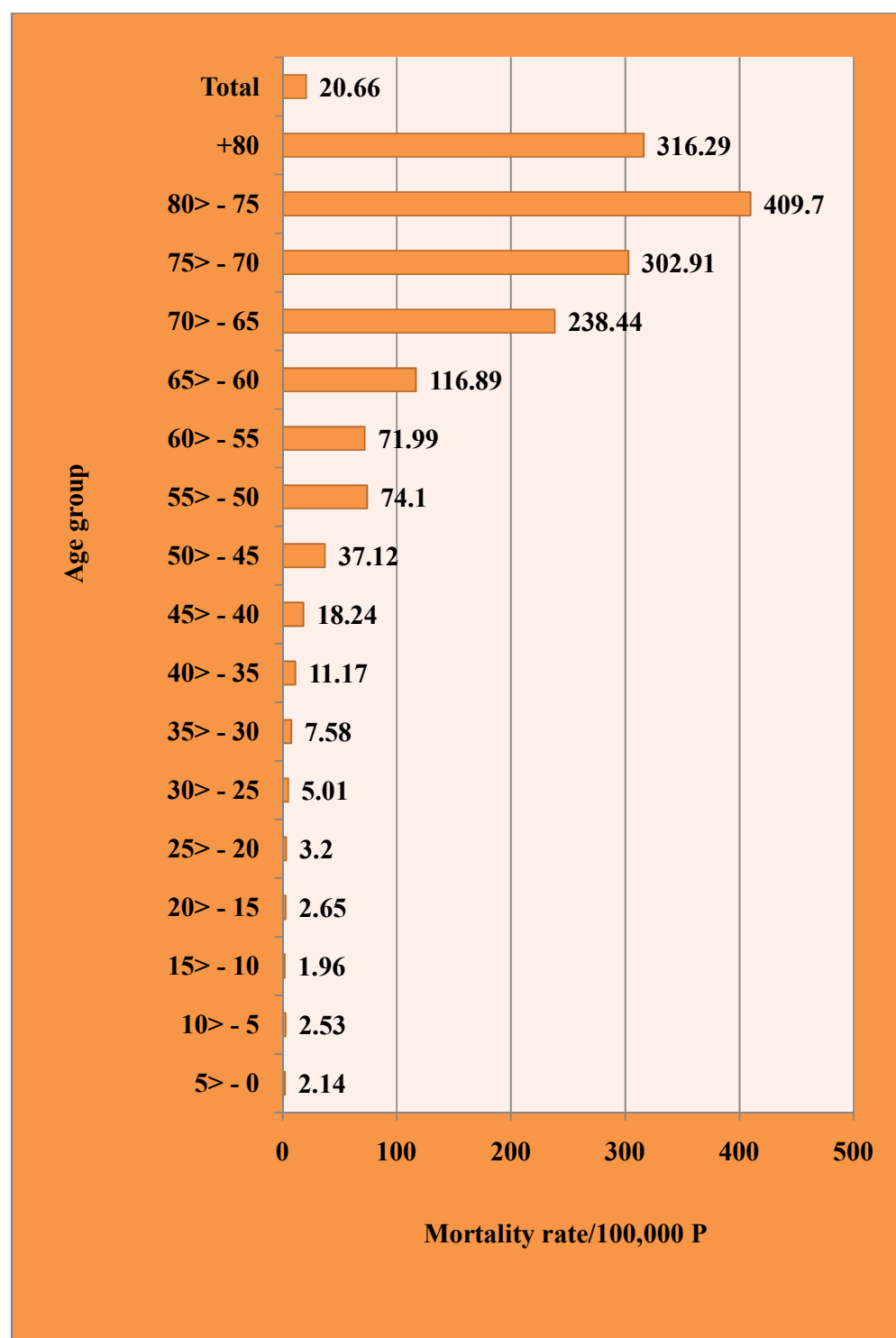
3.7.4. Distribution and the mortality rate of the top ten cancers by site and age group, Iraq, 2019:

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

Table No.; (99) Distribution of the top ten cancers mortality in Iraq by site and age group, 2019

Top Ten, Total	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+	Un.	Total
Bronchus & Lung	0	1	1	4	13	8	7	18	44	86	146	174	193	342	288	209	214	4	1,752
Breast	0	0	0	0	4	16	36	73	129	157	173	153	132	140	92	59	72	1	1,237
Leukemia	58	66	51	65	48	37	46	31	38	53	52	63	70	72	72	67	57	0	946
Brain & other CNS	45	48	31	21	14	26	38	41	43	75	87	69	81	115	67	46	41	1	889
Colorectal	0	0	1	1	12	24	28	27	35	39	76	78	71	83	82	66	68	0	691
Stomach	0	3	1	1	6	11	12	28	41	52	68	45	74	70	57	60	54	0	583
Liver	5	3	2	5	3	9	7	10	17	29	46	50	68	91	68	61	82	2	558
Pancreas	0	0	0	0	1	3	7	9	14	37	51	58	84	103	79	42	54	0	542
Urinary Bladder	3	3	0	0	3	0	0	6	3	14	20	26	43	63	83	83	112	0	462
Non-Hodgkin Lymphoma	12	11	6	14	12	12	18	10	18	37	35	43	52	58	38	32	17	0	425
Total	123	135	93	111	116	146	199	253	382	579	754	759	868	1137	926	725	771	8	8,085
Percentage	1.52	1.67	1.15	1.37	1.43	1.81	2.46	3.13	4.72	7.16	9.33	9.39	10.74	14.06	11.45	8.97	9.54	0.1	100 %

**Figure No.; (96) Mortality rate of the top ten cancers in Iraq/100,000 populations
by age group, 2019**



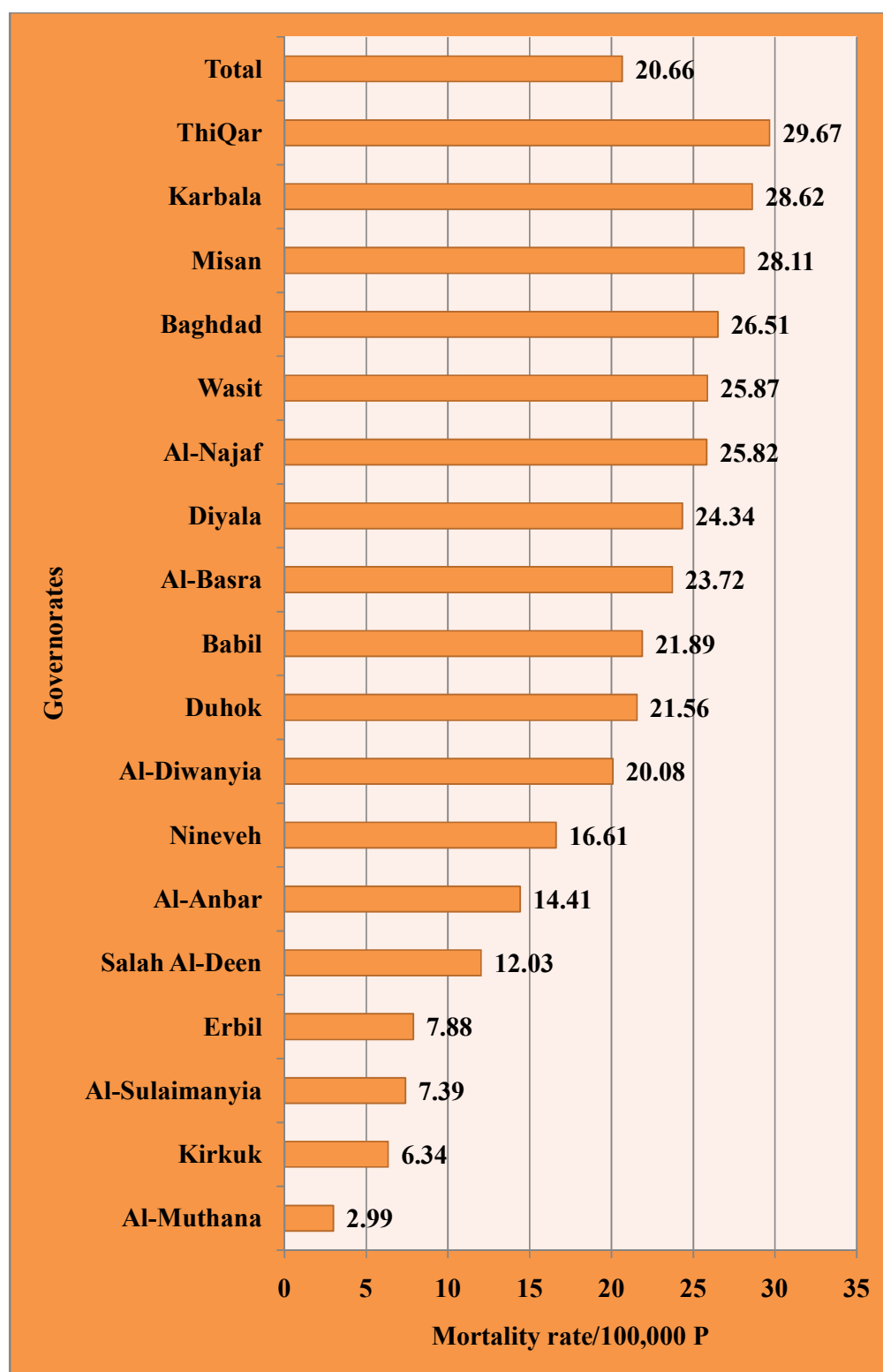
3.7.5. Distribution and the mortality rate of the top ten cancers by site and governorates, Iraq, 2019:

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

Table No.; (100) Distribution of the top ten cancers mortality in Iraq by site and governorates, Iraq, 2019

Top Ten, Total	Al-Anbar	Al-Basra	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	38	134	71	5	97	38	115	391	65	100	49	92	23	80	141	45	162	77	29	1,752
Breast	32	130	30	4	52	25	61	418	80	23	15	47	24	32	95	14	70	41	44	1,237
Leukemia	23	96	38	6	30	23	69	275	39	34	11	33	14	44	67	27	59	58	0	946
Brain & Other CNS	17	82	39	1	43	9	31	255	62	30	8	52	6	27	69	24	96	37	1	889
Colorectal	36	64	18	1	25	17	29	194	29	33	21	25	4	28	61	20	34	36	16	691
Stomach	44	56	19	3	25	17	22	117	62	23	14	24	8	13	64	17	23	13	19	583
Liver	17	14	20	0	41	3	28	171	23	14	8	20	6	28	56	21	57	29	2	558
Pancreas	18	44	4	1	26	18	40	160	25	16	8	31	8	26	39	11	35	20	12	542
Urinary Bladder	9	42	11	2	22	8	37	107	18	4	10	31	4	29	15	5	74	32	2	462
Non-Hodgkin Lymphoma	28	46	16	2	29	6	32	123	6	9	6	3	7	14	29	13	28	23	5	425
Total	262	708	266	25	390	164	464	2,211	409	286	150	358	104	321	636	197	638	366	130	8,085
Percentage	3.24	8.76	3.29	0.31	4.82	2.03	5.74	27.35	5.06	3.54	1.86	4.43	1.29	3.97	7.87	2.44	7.89	4.53	1.61	100.00

Figure No.; (97) Mortality rate of the top ten cancers in Iraq/100,000 populations by governorates, 2019



3.7.6. Distribution and the incidence rate of crude cancer mortality by site, ICD-O, and gender, Iraq, 2019:

Table No.; (101) Distribution and the mortality rate /100,000 populations of crude cancers mortality by gender, Iraq, 2019

ICD-O code / Site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip	1	0.01	0.01	3	0.03	0.02	4	0.04	0.01
C01 / Tongue, Base	2	0.02	0.01	3	0.03	0.02	5	0.05	0.01
C02 / Tongue, other	24	0.22	0.12	28	0.26	0.14	52	0.47	0.13
C03 / Gum	2	0.02	0.01	1	0.01	0.01	3	0.03	0.01
C04 / Mouth - Floor	1	0.01	0.01	0	0.00	0.00	1	0.01	0.00
C05 / Mouth - Palate	1	0.01	0.01	0	0.00	0.00	1	0.01	0.00
C06 / Mouth - other	2	0.02	0.01	1	0.01	0.01	3	0.03	0.01
C07 / Parotid Gland	6	0.05	0.03	4	0.04	0.02	10	0.09	0.03
C08 / Mouth Glands	8	0.07	0.04	3	0.03	0.02	11	0.10	0.03
C09 / Tonsil	3	0.03	0.02	6	0.05	0.03	9	0.08	0.02
C10 / Oropharynx	7	0.06	0.04	4	0.04	0.02	11	0.10	0.03
C11 / Nasopharynx	9	0.08	0.05	14	0.13	0.07	23	0.21	0.06
C12 / Pyriform	0	0.00	0.00	4	0.04	0.02	4	0.04	0.01
C13 / Hypopharynx	4	0.04	0.02	5	0.05	0.03	9	0.08	0.02
C14 / Pharynx	9	0.08	0.05	21	0.19	0.11	30	0.27	0.08
C15 / Esophagus	42	0.38	0.22	63	0.57	0.32	105	0.96	0.27
C16 / Stomach	270	2.46	1.39	313	2.86	1.58	583	5.32	1.49
C17 / Small intestine	48	0.44	0.25	47	0.43	0.24	95	0.87	0.24
C18 / Colon	258	2.35	1.33	319	2.91	1.61	577	5.27	1.47
C19 / Recto sigmoid Junction	9	0.08	0.05	1	0.01	0.01	10	0.09	0.03
C20 / Rectum	40	0.37	0.21	64	0.58	0.32	104	0.95	0.27
C21 / Anus & Anal Canal	8	0.07	0.04	8	0.07	0.04	16	0.15	0.04
C22 / Liver & Bile Ducts	244	2.23	1.26	314	2.87	1.59	558	5.09	1.43
C23 / Gallbladder	59	0.54	0.30	45	0.41	0.23	104	0.95	0.27
C24 / Biliary Tract , other	34	0.31	0.18	50	0.46	0.25	84	0.77	0.21
C25 / Pancreas	233	2.13	1.20	309	2.82	1.56	542	4.95	1.39
C26 / Other Digestive organs	12	0.11	0.06	12	0.11	0.06	24	0.22	0.06
C30 / Nasal Cavity	2	0.02	0.01	1	0.01	0.01	3	0.03	0.01
C31 / Accessory Sinus	1	0.01	0.01	12	0.11	0.06	13	0.12	0.03
C32 / Larynx	52	0.47	0.27	134	1.22	0.68	186	1.70	0.48
C33 / Trachea	1	0.01	0.01	2	0.02	0.01	3	0.03	0.01
C34 / Bronchus & Lung	531	4.85	2.74	1221	11.14	6.18	1752	15.99	4.48
C37 / Thymus	3	0.03	0.02	4	0.04	0.02	7	0.06	0.02
C38 / Heart, Mediastinum, Pleura	10	0.09	0.05	7	0.06	0.04	17	0.16	0.04

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C39 / Other Respiratory & Thoracic		2	0.02	0.01	2	0.02	0.01	4	0.04	0.01
C40 / Bone & Cartilage, Limbs		24	0.22	0.12	39	0.36	0.20	63	0.57	0.16
C41 / Bones & Cartilage, Other		75	0.68	0.39	93	0.85	0.47	168	1.53	0.43
C42 / Reticulo Endothelial & Hematopoietic System	Chronic Myelo proliferative Disorders	9	0.08	0.05	8	0.07	0.04	17	0.16	0.04
	Leukemia	423	3.86	2.18	523	4.77	2.65	946	8.63	2.42
	Mast Cell Tumor	2	0.02	0.01	1	0.01	0.01	3	0.03	0.01
	Myelodys Plastic Syndromes	6	0.05	0.03	9	0.08	0.05	15	0.14	0.04
	Plasma Cell Tumor	29	0.26	0.15	38	0.35	0.19	67	0.61	0.17
C44 / Skin, other		43	0.39	0.22	48	0.44	0.24	91	0.83	0.23
C47 / Nerves System		3	0.03	0.02	4	0.04	0.02	7	0.06	0.02
C48 / Peritoneum		3	0.03	0.02	2	0.02	0.01	5	0.05	0.01
C49 / soft tissues		30	0.27	0.15	30	0.27	0.15	60	0.55	0.15
C50 / Breast		1204	10.99	6.22	33	0.30	0.17	1237	11.29	3.16
C51 / Vulva		2	0.02	0.01	0	0.00	0.00	2	0.02	0.01
C52 / Vagina		4	0.04	0.02	0	0.00	0.00	4	0.04	0.02
C53 / Cervix Uteri		59	0.54	0.30	0	0.00	0.00	59	0.54	0.30
C54 / Corpus Uteri		26	0.24	0.13	0	0.00	0.00	26	0.24	0.13
C55 / Uterus Unspecified		196	1.79	1.01	0	0.00	0.00	196	1.79	1.01
C56 / Ovary		195	1.78	1.01	0	0.00	0.00	195	1.78	1.01
C61 / Prostate		0	0.00	0.00	343	3.13	1.74	343	3.13	1.74
C62 / Testis		0	0.00	0.00	15	0.14	0.08	15	0.14	0.08
C64 / Kidney		95	0.87	0.49	130	1.19	0.66	225	2.05	0.58
C65 / Pelvis		5	0.05	0.03	5	0.05	0.03	10	0.09	0.03
C66 / Ureter		0	0.00	0.00	1	0.01	0.01	1	0.01	0.00
C67 / Urinary Bladder		128	1.17	0.66	334	3.05	1.69	462	4.22	1.18
C68 / Urinary organs, other		0	0.00	0.00	1	0.01	0.01	1	0.01	0.00
C69 / Eye & Adnexa		8	0.07	0.04	8	0.07	0.04	16	0.15	0.04
C70 / Meninges		6	0.05	0.03	2	0.02	0.01	8	0.07	0.02
C71 / Brain		387	3.53	2.00	464	4.23	2.35	851	7.77	2.17
C72 / Nervous System, other		12	0.11	0.06	12	0.11	0.06	24	0.22	0.06
C73 / Thyroid Gland		70	0.64	0.36	55	0.50	0.28	125	1.14	0.32
C74 / Adrenal gland		10	0.09	0.05	18	0.16	0.09	28	0.26	0.07
C75 / Endocrine Gland, other		4	0.04	0.02	4	0.04	0.02	8	0.07	0.02
C76 / Unspecified Site		16	0.15	0.08	15	0.14	0.08	31	0.28	0.08

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C77 / Lymph nodes	Hodgkin Lymphoma	49	0.45	0.25	55	0.50	0.28	104	0.95	0.27
	Non-Hodgkin Lymphoma	198	1.81	1.02	227	2.07	1.15	425	3.88	1.09
C80 / Unknown Primary Site		74	0.68	0.38	82	0.75	0.41	156	1.42	0.40
Total		5,333	48.67	27.55	5,624	51.33	28.45	10,957	100.00	28.00

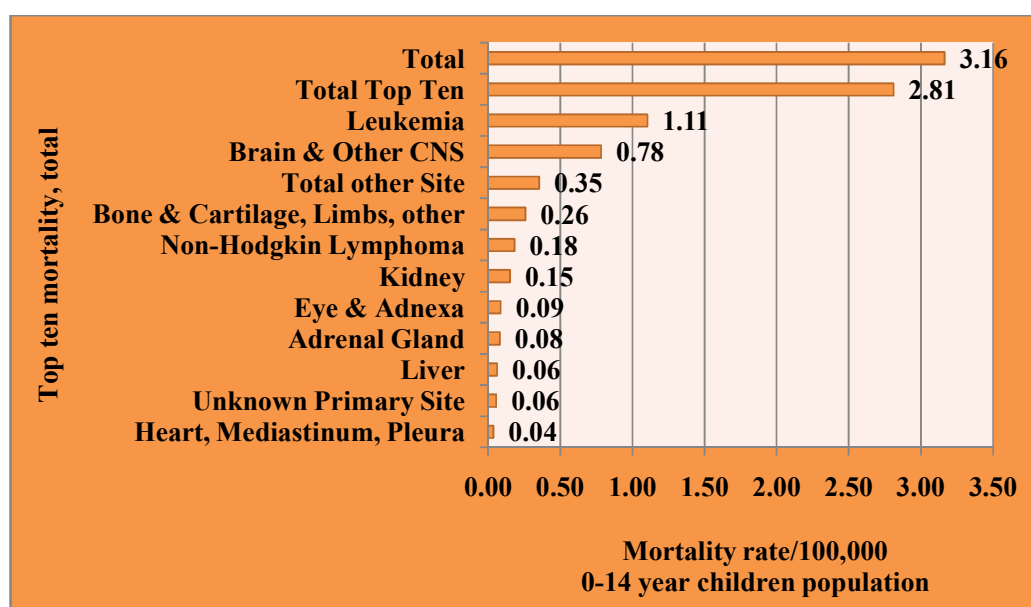
3.7.7. Distribution and the mortality rate of the top ten cancers in children 0-14 year, Iraq, 2019:

Table No.; (102), Figure No.; (98) shows the Distribution and the mortality rate of the top ten cancers in children 0-14 years, Iraq, it shows that the highest percentage and mortality rate was Leukemia, while the lowest was Heart, Mediastinum, Pleura.

Table No.; (102) Distribution of the top ten cancers mortality in children 0-14 year, Iraq, 2019

Top Ten Total		No.	%
1	Leukemia	175	34.93
2	Brain & Other CNS	124	24.75
3	Bone & Cartilage, Limbs, other	41	8.18
4	Non-Hodgkin Lymphoma	29	5.79
5	Kidney	24	4.79
6	Eye & Adnexa	14	2.79
7	Adrenal Gland	13	2.59
8	Liver	10	2.00
9	Unknown Primary Site	9	1.80
10	Heart, Mediastinum, Pleura	6	1.20
Total Top Ten		445	88.82
Total other Site		56	11.18
Total		501	100.00%

Figure No.; (98) Mortality rate of the top ten cancers mortality in children 0-14 year /100, 000 children 0-14 year populations, Iraq, 2019

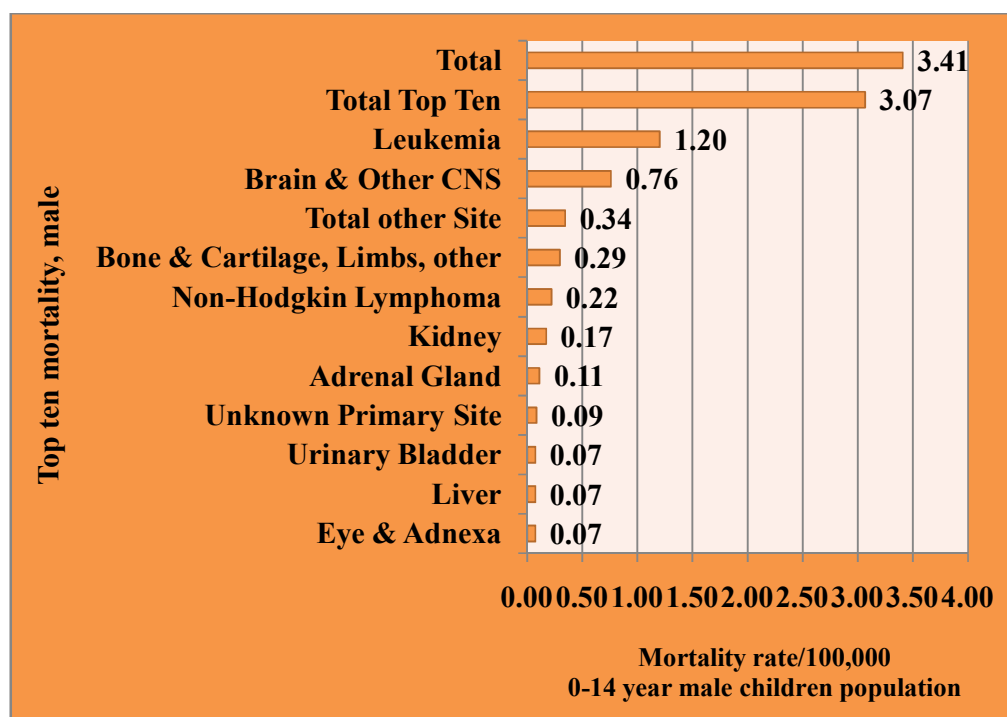


3.7.8. Distribution and the mortality rate of the top ten cancers mortality in male children 0-14 year, Iraq, 2019:

Table No.; (103) Distribution of the top ten cancers mortality in male children 0-14 year, Iraq, 2019

Top Ten Male		No.	%
1	Leukemia	98	35.25
2	Brain & Other CNS	62	22.30
3	Bone & Cartilage, Limbs, other	24	8.63
4	Non-Hodgkin Lymphoma	18	6.47
5	Kidney	14	5.04
6	Adrenal Gland	9	3.24
7	Unknown Primary Site	7	2.52
8	Eye & Adnexa	6	2.16
9	Liver	6	2.16
10	Urinary Bladder	6	2.16
Total Top Ten		250	89.93
Total other Site		28	10.07
Total		278	100.00%

Figure No.; (99) Mortality rate of the top ten cancers mortality in male children 0-14 year /100, 000 male children 0-14 year populations, Iraq, 2019

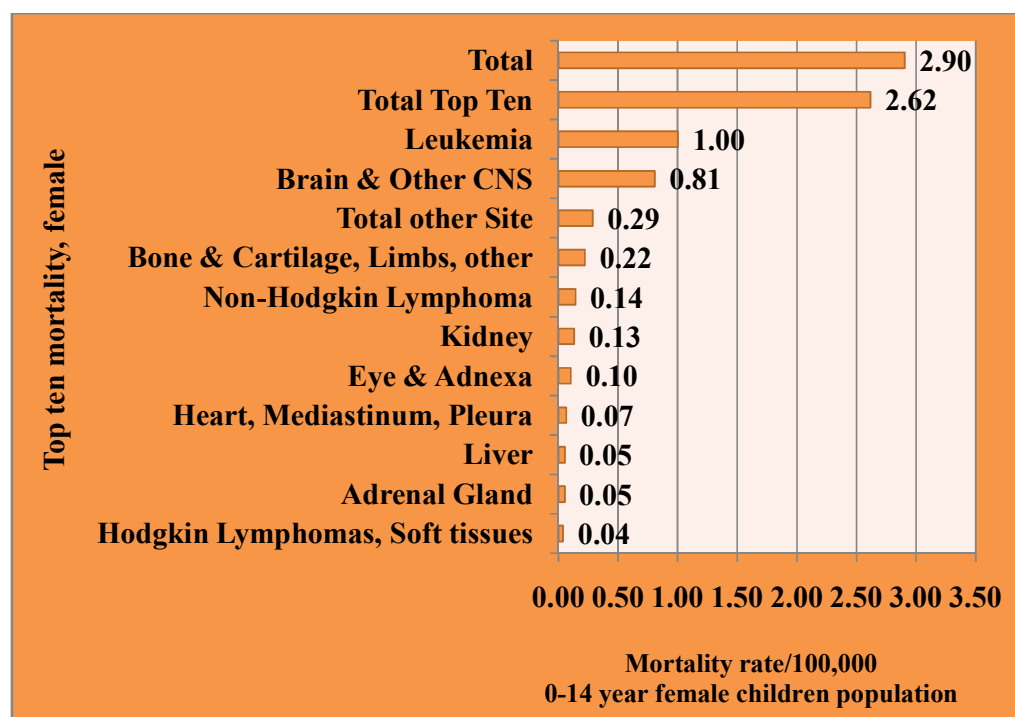


3.7.9. Distribution and the mortality rate of the top ten cancers mortality in female children 0-14 year, Iraq, 2019:

Table No.; (104) Distribution of the top ten cancers mortality in female children 0-14 year, Iraq, 2019

Top Ten Female		No.	%
1	Leukemia	77	34.53
2	Brain & Other CNS	62	27.80
3	Bone & Cartilage, Limbs, other	17	7.62
4	Non-Hodgkin Lymphoma	11	4.93
5	Kidney	10	4.48
6	Eye & Adnexa	8	3.59
7	Heart, Mediastinum, Pleura	5	2.24
8	Adrenal Gland	4	1.79
9	Liver	4	1.79
10	Hodgkin Lymphomas, Soft tissues	3	1.35
Total Top Ten		201	90.13
Total other Site		22	9.87
Total		223	100.00%

Figure No.; (100) Mortality rate of the top ten cancers mortality in female children 0-14 year /100, 000 female children 0-14 year populations, Iraq, 2019



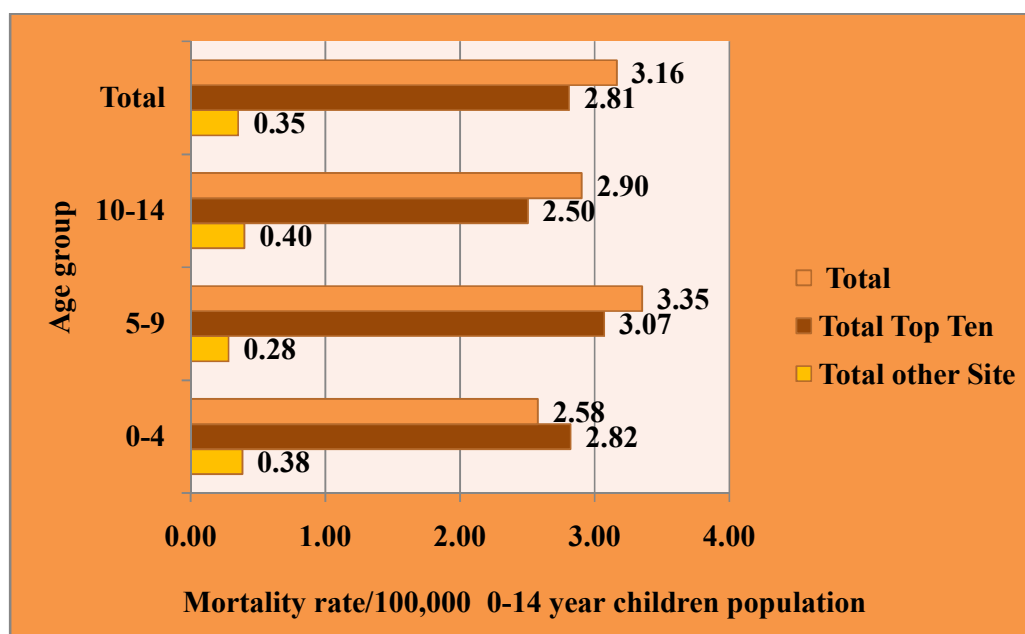
3.7.10. Distribution and the mortality rate of the top ten cancers mortality in children 0-14year by site and age group, Iraq, 2019

Table No.; (105), Figure No.; (101) shows the distribution and the mortality rate of the top ten cancers in Iraq in children 0-14 years by site and age group.

Table No.; (105) Distribution of the top ten cancers mortality in children 0-14 year by site and age group, Iraq, 2019

Top Ten, Total	0 - <5		5 - <10	10 - <15	Total
	0 - <1	1 - <5			
Leukemia	6	52	66	51	175
Brain & Other CNS	4	41	48	31	124
Bone & Cartilage, Limbs, other	1	3	14	23	41
Non-Hodgkin Lymphoma	0	12	11	6	29
Kidney	2	9	12	1	24
Eye & Adnexa	0	11	2	1	14
Adrenal Gland	0	9	3	1	13
Liver	0	5	3	2	10
Unknown Primary Site	0	5	3	1	9
Heart, Mediastinum, Pleura	0	2	2	2	6
Total Top Ten	13	149	164	119	445
Total other Site	1	21	15	19	56
Total	14	170	179	138	501
Percentage	2.79	33.93	35.73	27.54	100.00

Figure No.; (101) Mortality rate of the top ten cancers mortality in children 0-14 year /100,000 children 0-14 year populations by age group, Iraq, 2019



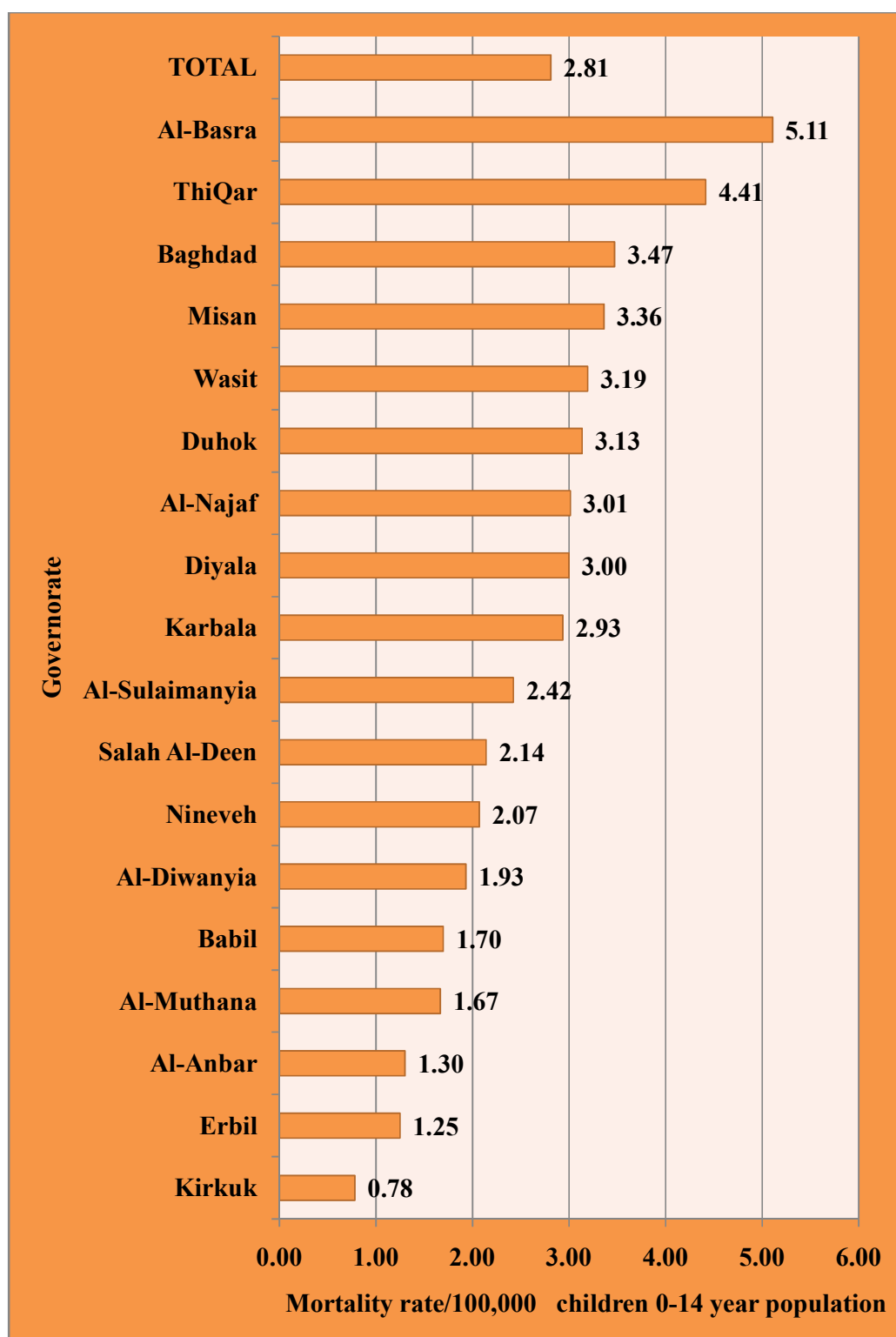
3.7.11. Distribution of the top ten cancers mortality in children 0-14year by site and governorates, Iraq, 2019:

Table No.; (106), Figure No.; (102) shows the distribution and the mortality rate of the top ten cancers mortality in Iraq in children 0-14 year by site and governorates.

Table No.; (106) Distribution of the top ten cancers mortality in children 0-14year by site and governorates, Iraq, 2019

Top Ten, Total	Al-Anbar	Al-Basra	Al-Diwanyia	Al-Muthana	Al-Najaf	Al-Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah Al-Deen	ThiQar	Wasit	TOTAL
Leukemia	3	25	5	3	5	8	7	49	5	5	2	4	3	7	11	6	16	11	175
Brain & Other CNS	4	22	2	0	9	1	4	26	7	8	1	9	0	4	7	2	16	2	124
Bone & Cartilage, Limbs, other	0	7	1	1	2	0	1	8	3	3	2	2	1	3	4	2	1	0	41
Non-Hodgkin Lymphoma	2	4	0	1	2	0	2	3	0	1	0	0	0	1	5	4	1	3	29
Kidney	1	2	2	0	0	3	0	6	1	0	1	0	0	0	6	0	1	1	24
Eye & Adnexa	0	3	1	0	0	0	0	7	0	0	1	0	0	0	1	0	1	0	14
Adrenal Gland	0	2	0	1	0	0	1	5	0	0	1	0	0	2	0	1	0	0	13
Liver	0	0	0	0	0	0	0	2	3	0	0	0	0	0	1	0	3	1	10
Unknown Primary Site	0	0	0	0	0	5	0	0	1	0	1	0	1	0	0	0	1	0	9
Heart, Mediastinum, Pleura	0	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	1	1	6
Total	10	66	11	6	19	18	15	107	20	17	9	15	5	17	35	15	41	19	445
Percentage	2.25	14.83	2.47	1.35	4.27	4.04	3.37	24.04	4.49	3.82	2.02	3.37	1.12	3.82	7.87	3.37	9.21	4.27	100.00

Figure No.; (102) Mortality rate of the top ten cancers mortality in children 0-14 year /100,000 children 0-14 year populations by governorates, Iraq, 2019



3.7.12. Distribution and the mortality rate of cancer mortality in children 0-14 year by site, ICD-O, and gender, Iraq, 2019:

Table No.; (107) Distribution and the mortality rate of cancers mortality in children 0-14 year / 100, 000 children 0-14 year populations by site, gender, and ICD-O, Iraq, 2019

ICD-O code / Site of tumor	Female			Male			Total			
	No.	%	IR	No.	%	IR	No.	%	IR	
C02 / Tongue, other	1	0.20	0.01	2	0.40	0.02	3	0.60	0.02	
C08 / Mouth Glands	1	0.20	0.01	1	0.20	0.01	2	0.40	0.01	
C09 / Tonsil	0	0.00	0.00	1	0.20	0.01	1	0.20	0.01	
C10 / Oropharynx	1	0.20	0.01	1	0.20	0.01	2	0.40	0.01	
C11 / Nasopharynx	0	0.00	0.00	1	0.20	0.01	1	0.20	0.01	
C16 / Stomach	2	0.40	0.03	2	0.40	0.02	4	0.80	0.03	
C20 / Rectum	1	0.20	0.01	0	0.00	0.00	1	0.20	0.01	
C22 / Liver & Bile Ducts	4	0.80	0.05	6	1.20	0.07	10	2.00	0.06	
C30 / Nasal Cavity	1	0.20	0.01	0	0.00	0.00	1	0.20	0.01	
C32 / Larynx	0	0.00	0.00	2	0.40	0.02	2	0.40	0.01	
C34 / Bronchus & Lung	0	0.00	0.00	2	0.40	0.02	2	0.40	0.01	
C38 / Heart, Mediastinum, Pleura	5	1.00	0.07	1	0.20	0.01	6	1.20	0.04	
C39 / Other Respiratory & Thoracic	1	0.20	0.01	0	0.00	0.00	1	0.20	0.01	
C40 / Bone & Cartilage, Limbs	6	1.20	0.08	8	1.60	0.10	14	2.79	0.09	
C41 / Bones & Cartilage, other	11	2.20	0.14	16	3.19	0.20	27	5.39	0.17	
C42 / Reticulo Endothelial & Hemato poietic System	Chronic Myelo proliferative Disorders	1	0.20	0.01	0	0.00	0.00	1	0.20	0.01
	Leukemia	77	15.37	1.00	98	19.56	1.20	175	34.93	1.11
	Mast Cell Tumor	2	0.40	0.03	1	0.20	0.01	3	0.60	0.02
C44 / Skin, other	1	0.20	0.01	0	0.00	0.00	1	0.20	0.01	
C47 /Nerves System	2	0.40	0.03	3	0.60	0.04	5	1.00	0.03	
C49 / soft tissues	3	0.60	0.04	3	0.60	0.04	6	1.20	0.04	
C56 / Ovary	1	0.20	0.01	0	0.00	0.00	1	0.20	0.01	
C64 / Kidney	10	2.00	0.13	14	2.79	0.17	24	4.79	0.15	
C65 / Pelvis	0	0.00	0.00	1	0.20	0.01	1	0.20	0.01	
C67 / Urinary Bladder	0	0.00	0.00	6	1.20	0.07	6	1.20	0.04	
C69 / Eye & Adnexa	8	1.60	0.10	6	1.20	0.07	14	2.79	0.09	
C71 / Brain	57	11.38	0.74	58	11.58	0.71	115	22.95	0.73	
C72 / Nervous System, other	5	1.00	0.07	2	0.40	0.02	7	1.40	0.04	
C73 / Thyroid Gland	0	0.00	0.00	1	0.20	0.01	1	0.20	0.01	
C74 / Adrenal gland	4	0.80	0.05	9	1.80	0.11	13	2.59	0.08	
C75 / Endocrine Gland, other	0	0.00	0.00	2	0.40	0.02	2	0.40	0.01	
C76 / Unspecified Site	2	0.40	0.03	3	0.60	0.04	5	1.00	0.03	

ICD-O code / Site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C77 / Lymph nodes	Hodgkin Lymphoma	3	0.60	0.04	3	0.60	0.04	6	1.20	0.04
	Non-Hodgkin Lymphoma	11	2.20	0.14	18	3.59	0.22	29	5.79	0.18
C80 / Unknown Primary Site		2	0.40	0.03	7	1.40	0.09	9	1.80	0.06
Total		223	44.51	2.90	278	55.49	3.41	501	100.00	3.16

Annex

Annex:

Ministry Of Health Iraqi Cancer Registry			
Can Reg		☐ — ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	
I. Patient information			
١. الاسم الاول : First Name		٢. اسم الاب : Fathers Name	
٣. اسم العائلة : Family Name		٤. اسم الام : Mothers Name	
Sex	Birth Date		
Age			
Nationality			
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 ٩. 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. Benign 1. Uncertain behaviour 2. In situ 3. Malignant)		
Grad	(1. Grad 2. Grade II 3. Grade III 4. Grade IV 5. T-Cell 6. B-Cell 7. Null Cell 8. Killer Cell 9. Unknown)		
Extent	(1. In situ 2. Localised 3. Regional: Direct Extension 4. Regional: Lymph nodes 5. Direct L. N. ext. 7. Distant metastasis 8. Not applicable 9. Unknown)		
T	(Advanced / Localized)		
N	(+/0) Multiple Primary		
M	(+/0) ICD - 10		
Hospital		Treatment	
Hospital	Date	No Patient	
اسم المستشفى			Surgery ☐ (1. Yes 2. No 9. Unknown)
اسم المستشفى			Radiotherapy ☐ (1. Yes 2. No 9. Unknown)
اسم المستشفى			Chemotherapy ☐ (1. Yes 2. No 9. Unknown)
Path Lab.	Date	Path Lab. No.	
اسم المستشفى			Hormonal therapy ☐ (1. Yes 2. No 9. Unknown)
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 املء الحقول رقم (٨١٧٠٦٠٥٠٤١٣٠١) باللغة العربية وترك مايقابلها لمركز التسجيل السرطاني. اسم منظم الاستمارة وتوقيعه الطبيب : التاريخ : ٢٠١ / / الاحصائي :			
وزارة الصحة / مطابع دائرة العيادات الطبية الشعبية			

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Referenesc:

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(5,94%) (6.26 لكل مئة ألف من السكان من فئة النساء) وسرطان القولون والمستقيم (5,33%) (5.63 لكل مئة ألف من السكان من فئة النساء) وسرطان الدم (اللوكيميا) (4,36%) (4.60 لكل مئة ألف من السكان من فئة النساء) وسرطان القصبات والرئة (4,09%) (4.31 لكل مئة ألف من السكان من فئة النساء) وسرطان المبيض (4%) (4.22 لكل مئة ألف من السكان من فئة النساء) وسرطان الغدد اللمفاوية اللاهودجكيني (3,27%) (3.45 لكل مئة ألف من السكان من فئة النساء) وسرطان الجلد (2,96%) (3.13 لكل مئة ألف من السكان من فئة النساء) والورم الخبيث بجسم الرحم (2,75%) (2.90 لكل مئة ألف من السكان من فئة النساء).

و كان العدد الكلي للحالات السرطانية الجديدة المسجلة بين الأطفال (0-14 سنة) هو 1,945 من مجموع 35,864 (العدد الكلي للإصابات السرطانية ولكافة الفئات العمرية) وتمثل 5.42% من العدد الكلي للإصابات ولكافة الفئات العمرية، وان التقدير السنوي للإصابة هو 12,28 لكل مئة ألف من السكان/ فئة الأعمار 0-14 سنة كما ان أكثر الفئات العمرية تعرضا للإصابة ضمن الأكثر عشرة أنواع للسرطان شيوعا عند الاطفال كان ضمن الفئة العمرية اقل من خمس سنوات ويمثل 11.84 لكل مئة ألف من السكان/ فئة الأعمار 0-14. وأن أعلى تقدير سنوي للإصابات بين الأطفال هو بسبب سرطان الدم (اللوكيميا) (3.71 لكل مئة ألف من السكان/ فئة الأعمار 0-14 سنة. أما فيما يتعلق بالتقدير السنوي للإصابة في المحافظات فقد لوحظ ان أعلى تقدير سنوي للإصابات ضمن الأكثر عشرة أنواع للسرطان شيوعا عند الاطفال كان في محافظة كربلاء (14.28 لكل مئة ألف من السكان/ فئة الأعمار دون 0-14 سنة)، وان أدنى تقدير سنوي للإصابات كان في محافظة محافظة ديالى (7.34 لكل مئة ألف من السكان/ فئة الأعمار 0-14 سنة).

وكان العدد الكلي للوفيات بسبب السرطان خلال عام 2019 هو 10,957 وقد لوحظ أن أعلى تقدير سنوي للوفاة هو بسبب سرطان القصبات والرئة (15,99%) (4.48 لكل مئة ألف من السكان) كما ان أعلى تقدير سنوي للوفاة عند الرجال هو ايضا بسبب سرطان القصبات والرئة (21,71%) (6.18 لكل مئة ألف من السكان من فئة الرجال) وان أعلى تقدير سنوي للوفاة عند النساء هو بسبب سرطان الثدي (22,58%) (6.22 لكل مئة ألف من السكان من فئة النساء). وأن أعلى الفئات العمرية تعرضا للوفاة ضمن الأكثر عشرة أنواع للسرطان شيوعا هو 70 سنة فأكثر. كما أن أعلى تقدير سنوي للوفاة ضمن الأكثر عشرة أنواع للسرطان شيوعا للسرطان سجل في محافظة ذي قار (7,89%) (29.67 لكل مئة ألف من السكان).

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 2019 هو 35,864 وقد لوحظ أن أعلى الفئات العمرية تأثراً للأصابة بمرض السرطان هو 70-80 سنة. وفيما يتعلق بالمحافظات, لوحظ أن أعلى تقدير سنوي للإصابة في العراق كان في محافظة أربيل (107,28 لكل مئة ألف من السكان). بالنسبة لفئة الرجال فإن أعلى تقدير سنوي للإصابة فقد كان ايضاً في محافظة أربيل (155.10 لكل مئة ألف من السكان فئة الرجال), أما بالنسبة لفئة النساء فإن أعلى تقدير سنوي للإصابة كان في محافظة بغداد (136.50 لكل مئة ألف من السكان فئة النساء) وأن أقل تقدير سنوي للإصابة في العراق فقد كان في محافظة صلاح الدين [63.03 لكل مئة ألف من السكان (الرجال) 50.66 لكل مئة ألف من السكان من فئة الرجال والنساء 75.66 لكل مئة ألف من السكان من فئة النساء].

وقد ازدادت نسبة الاصابات الجديدة بالمرض في التقدير السنوي لمرض السرطان في العراق من عام 1994 (38,91 لكل مئة ألف من السكان) الى عام 2019 (91.66 لكل مئة ألف من السكان).

و قد ظهر أن أكثر عشرة انواع شيوعاً لمرض السرطان لكلا الجنسين كانت سرطان الثدي (19,82%) (18.17 لكل مئة ألف من السكان) وسرطان القصبات والرئة (7,90%) (7.24 لكل مئة ألف من السكان) وسرطان القولون والمستقيم (6,49%) (5.95 لكل مئة ألف من السكان) وأورام الدماغ والجهاز العصبي المركزي (6,37%) (5.83 لكل مئة ألف من السكان) وسرطان الدم (اللوكيميا) (5,51%) (5.05 لكل مئة ألف من السكان) وسرطان الغدة الدرقية (5,05%) (4.61 لكل مئة ألف من السكان) وسرطان المثانة (4,77%) (4.37 لكل مئة ألف من السكان) وسرطان الغدة اللمفاوية اللا هودجكيني (4,12%) (3.77 لكل مئة ألف من السكان) وسرطان الجلد (3,66%) (3.35 لكل مئة ألف من السكان) وسرطان البروستات (3,41%) (6.19 لكل مئة ألف من السكان من فئة الرجال).

و كانت أكثر عشرة انواع شيوعاً للسرطان عند الرجال تتمثل بسرطان القصبات والرئة (12,39%) (10.10 لكل مئة ألف من السكان من فئة الرجال) وسرطان المثانة (8,46%) (6.61 لكل مئة ألف من السكان من فئة الرجال) وسرطان القولون والمستقيم (7,52%) (5,29 لكل مئة ألف من السكان من فئة الرجال) وسرطان البروستات (7,92%) (6.19 لكل مئة ألف من السكان من فئة الرجال) وسرطان الدم (اللوكيميا) (7,03%) (5.49 لكل مئة ألف من السكان من فئة الرجال) وأورام الدماغ والجهاز العصبي المركزي (6,93%) (5.42 لكل مئة ألف من السكان من فئة الرجال) وسرطان الغدة اللمفاوية اللا هودجكيني (5,24%) (4.09 لكل مئة ألف من السكان من فئة الرجال) وسرطان الجلد (4,57%) (3.57 لكل مئة ألف من السكان من فئة الرجال) وسرطان الكلى (3,94%) (2.97 لكل مئة ألف من السكان من فئة الرجال) وسرطان المعدة (3,81%) (2.97 لكل مئة ألف من السكان من فئة الرجال).

أكثر عشرة انواع للسرطان شيوعاً عند النساء تتمثل بسرطان الثدي (34,08%) (35.95 لكل مئة ألف من السكان من فئة النساء) وسرطان الغدة الدرقية (6,96%) (7.34 لكل مئة ألف من السكان من فئة النساء) وأورام الدماغ والجهاز العصبي المركزي

جمهورية العراق
وزارة الصحة والبيئة
مجلس السرطان في العراق

التقرير السنوي
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