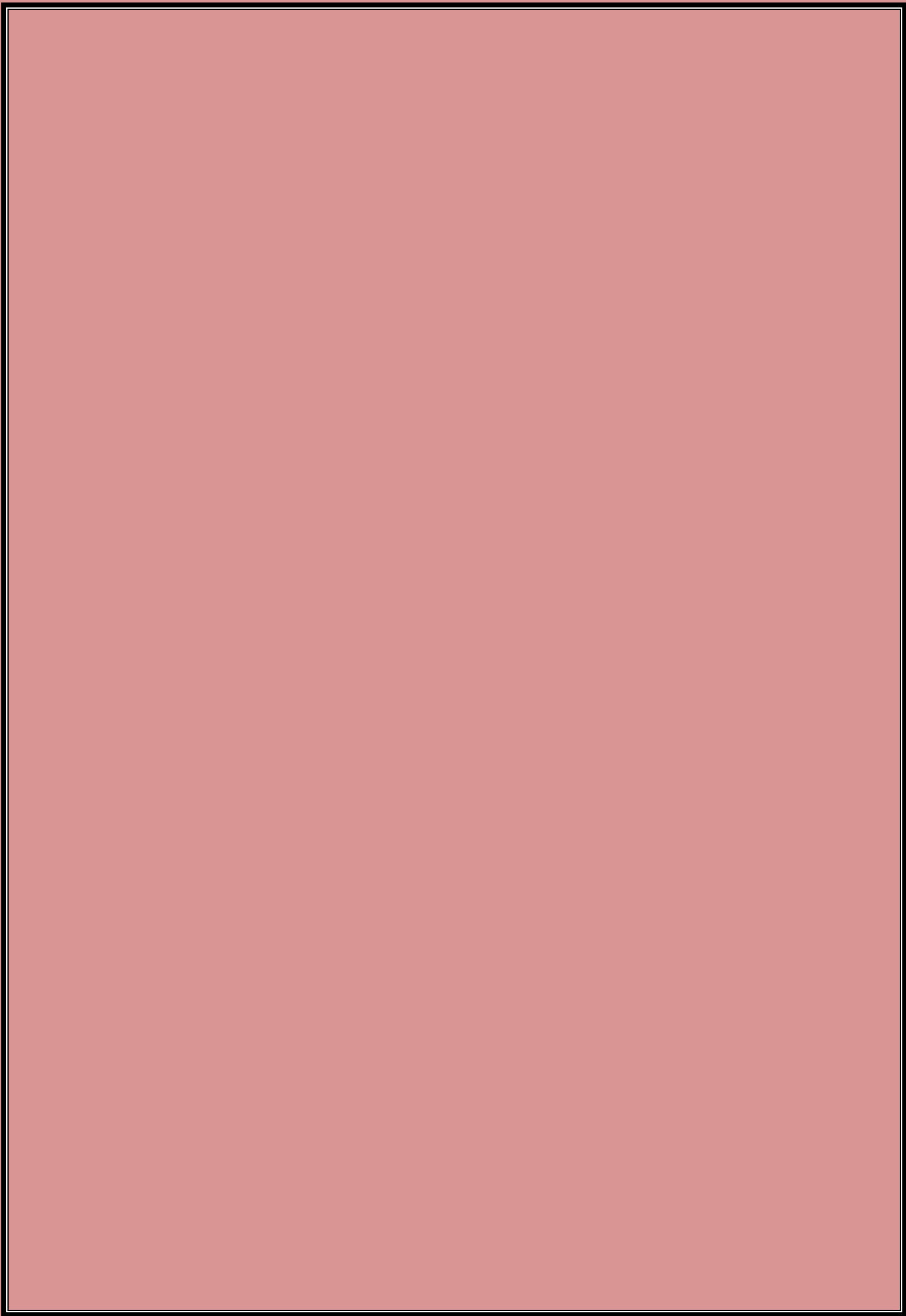




Republic of Iraq
Ministry of Health and Environment
Iraqi Cancer Board





Republic of Iraq

Ministry of Health and Environment

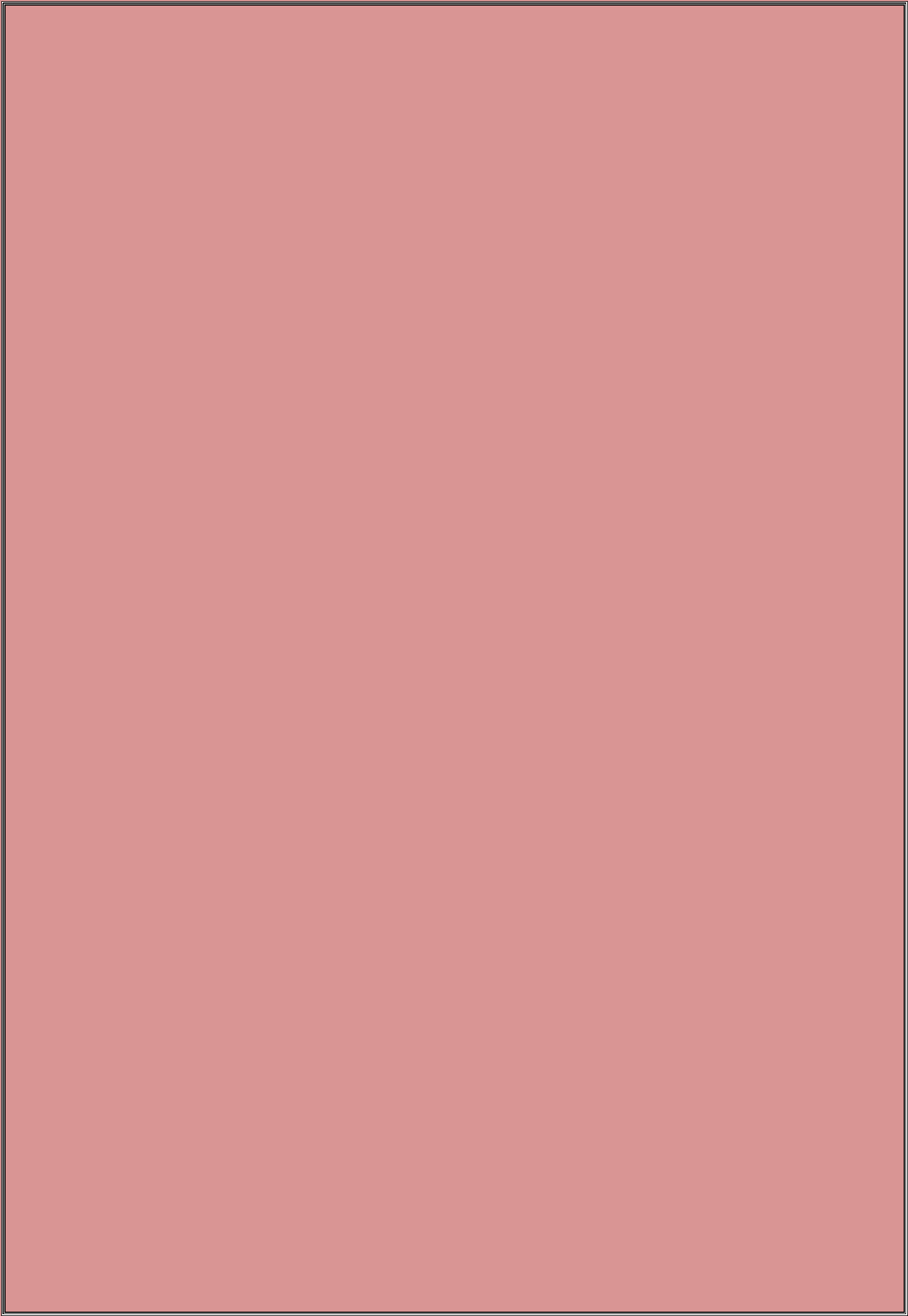
Iraqi Cancer Board

Annual Report

Iraqi Cancer Registry

2021

Email: iqcaboard@moh.gov.iq



Acknowledgments

We would like to express our deepest thanks to the staff of hospitals, pathology laboratories, clinics, and Cancer Registry Units in each health directorates for their efforts on collecting and entering data.

Iraqi Cancer Registry Team

Dr. Khudhair Jasim Alrawag	MBChB, DMRT, Ass. Prof. Clinical Oncology /Secretary General of Iraqi Cancer Board
Dr. Khitam M. Ali	Epidemiologist, Iraqi Cancer Registry Section
Athraa H. Hasan	Statistician
Lamia M. Nasser	Statistician
Khitam J. Selman	Statistician
Menal H. Mola Mohamed	Statistician
Joolan S. Mehidy	Manager
Ahmed F. Juad	Statistician
Kalid H. Hadi	Assistant Laboratory
Rania A. Hasoun	Medical Assistant
Rend M. Hamed	Medical Assistant
Redhab M. Sahib	Programmer
Malath K. Jabber	Manager
Nadia A. Abo-Khdeef	Observer
Ali H. Kamil	Researcher
Moshtaq T. Abdullah	Accountant

Checking and Review Team

Dr.Riyadh A. Alhilfi	PhD Community Medicine, Director General Public Health Directorate, MOH	Chief
Dr.Mohammed A. Saleam	MBChB., CABM., FICMS, adult clinical hematology. Medical city-Hematology center	Member
Dr.Ahmed Zuhair Alsammarrai	MBChB, FICMS, Fellow of Iraqi Council of Medical Specialties in Medical Oncology Oncology Teaching Hospital, Baghdad Medical City	Member
Dr.Ameer Dhahir Hameedi	MBChB, FICMS Pathology College of Medicine, University of Baghdad	Member
Dr.Zainab Faisal Mohammed H.	MBChB, FICMS, Fellow of Iraqi Council of Medical Specialties in Medical Oncology Oncology Teaching Hospital, Baghdad Medical City	Member
Dr.Awf A. Sulaiman	MBChB FJMC, Board Certified Radiation Oncologist Baghdad Center for Radiotherapy & Nuclear Medicine Baghdad Medical City.	Member
Dr.Saba M. Jasim	Medical oncologist / FICMS Medical City/ oncology teaching hospital	Member

List of Contents

Contents	Page No.
Acknowledgments	I
Iraqi Cancer Registry Team, Checking and Review Team	III
List of Tables	IX
List of Figures	XIV
List of Abbreviations	XVIII
Summary	1
Introduction	3
1. Iraqi Cancer Registry (ICR)	
1.1. Background of ICR	9
1.2. History of ICR	9
1.3. Publication of ICR	9
1.4. Source of information	9
1.5. Data recorded	9
1.6. Data collection and techniques	9
1.7. Objectives	10
1.8. Vision	10
1.9. Mission	10
2. Demography of Iraq	
2.1. Geography	13
2.2. Population	13
3. Results	
3.1. History of Cancer in Iraq	
3.1.1. Number, percentage and the crude incidence rate of new cases of cancer by gender, Iraq, 1994 - 2021	19
3.1.2. Trend of the crude incidence rate of new cases of cancer, Iraq, 1994-2021	22
3.2. New Cases of Cancer in Iraq, 2021	
3.2.1. Number, percentage, crude incidence rate and the ASIR /100,000 population of cancer by age group and gender, Iraq, 2021	24
3.2.2. Age standardized incidence rate /100,000 populations of cancer, Iraq, 2021	26
3.2.3. Number, percentage and crude incidence rate of cancer by governorates and gender, Iraq, 2021	27
3.2.4. Number, percentage and the crude incidence rate/100,000 P of cancer by ICD-O code, site of tumor and gender, Iraq, 2021	31
3.2.5. Number, percentage of cancers by ICD-O code/site of tumor, age group and gender, Iraq, 2021	34
3.2.6. Number and percentage of cancer by the ICD-O code, site of tumor, governorates and gender, Iraq, 2021	42

Contents	Page No.
3.3. Top ten cancers in Iraq, 2021	
3.3.1. Number, percentage and the crude incidence rate/100,000 P of the top ten cancers, Iraq, 2021	55
3.3.2. Number, percentage and the crude incidence rate/100,000 MP of the top ten cancers in males, Iraq, 2021	56
3.3.3. Number, percentage and the crude incidence rate/100,000 FP of the top ten cancers in females, Iraq, 2021	57
3.3.4. Number, percentage and the crude incidence rate/100,000 P of the top ten cancers by age group, Iraq, 2021	58
3.3.5. Number, percentage and the crude incidence rate/100,000 P of the top ten cancers by governorates, Iraq, 2021	60
3.4. New cases of cancers by governorates in Iraq, 2021	
3.4.1. Al-Sulaimanyia governorate	67
3.4.2. Erbil governorate	75
3.4.3. Karballa governorate	83
3.4.4. Baghdad governorates	91
3.4.5. Al-Najaf governorate	99
3.4.6. Al-Basrah governorate	107
3.4.7. Duhok governorate	115
3.4.8. Wasit governorate	123
3.4.9. Al-Qadysea governorate	131
3.4.10. ThiQar governorate	139
3.4.11. Babil governorate	147
3.4.12. Diyala governorate	155
3.4.13. Misan governorate	163
3.4.14. Al-Muthana governorate	171
3.4.15. Al-Anbar governorate	179
3.4.16. Salah Al-Deen governorate	187
3.4.17. Nineveh governorate	195
3.4.18. Kirkuk governorate	203
3.5. Morphology of the top ten cancer in Iraq, 2021	
3.5.1. Morphology of the top ten cancers in the males, Iraq, 2021	211
3.5.2. Morphology of the top ten cancers in the females, Iraq, 2021	221
3.6. Child cancer 0-14 years in Iraq, 2021	
3.6.1. Number, percentage and the crude incidence rate/100,000 children 0-14 year population of the top ten cancer in Iraq, 2021	233
3.6.2. Number, percentage and the crude incidence rate/100,000 male children 0-14 year population of top ten cancers in male children, Iraq, 2021	234
3.6.3. Number, percentage and the crude incidence rate/100,000 female children 0-14 year population of top ten cancers in female children, Iraq, 2021	235
3.6.4. Number, percentage and the crude incidence rate/100,000 childrer 0-14 year population of the top ten cancers by age group, Iraq, 2021	236

Contents		Page No.
3.	3.6.5. Number, percentage and the crude incidence rate/100,000 children 0-14 year population of the top ten cancers in children 0-14year by governorates, Iraq, 2021	237
	3.6.6. Number, percentage and the crude incidence rate/100,000 children 0-14 year population of cancer in children 0-14 year by ICD-O code, site of tumor and gender, Iraq, 2021	239
3.7.	Cancer mortality in Iraq, 2021	
	3.7.1. Number, percentage and the crude mortality rate/100,000 population of the top ten cancers in Iraq, 2021	243
	3.7.2. Number, percentage and the crude mortality rate/100,000 male population of the top ten cancers in male, Iraq, 2021	244
	3.7.3. Number, percentage and the crude mortality rate/100,000 female population of the top ten cancers in female, Iraq, 2021	245
	3.7.4. Number, percentage, age standardized mortality rate / 100,000 population and crude mortality rate/100,000 population of top ten cancers mortality by age group, Iraq, 2021	246
	3.7.5. Number, percentage and the crude mortality rate/100,000 population of top ten cancers mortality by governorates, Iraq, 2021	248
	3.7.6. Number, percentage and the crude mortality rate/100,000 population of top ten cancer mortality by ICD-O code, site of tumor and gender, Iraq, 2021	250
	3.7.7. Number, percentage and the crude mortality rate/100,000 children 0-14 year population of the top ten cancers mortality in children 0-14 year, Iraq, 2021	253
	3.7.8. Number, percentage and the crude mortality rate/100,000 male children 0-14 year population of the top ten cancers mortality in male children 0-14 year, Iraq, 2021	254
	3.7.9. Number, percentage and the crude mortality rate/100,000 female children 0-14 year population of the top ten cancers mortality in female children 0-14 year, Iraq, 2021	255
	3.7.10. Number, percentage and the crude mortality rate/100,000 children 0-14year population of the top ten cancers mortality in children 0-14year by age group, Iraq, 2021	256
	3.7.11. Number, percentage and the crude mortality rate/100,000 children 0-14year population of the top ten cancers mortality in children 0-14year by governorates, Iraq, 2021	257
	3.7.12. Number, percentage and the crude mortality rate/100,000 children 0-14year population of top ten cancer mortality by ICD-O code, site of tumor and gender, Iraq, 2021	259
3.8.	Cancer among Non-Iraqis in Iraq, 2021	
	3.8.1. Number and percentage of cancer among non-Iraqis by ICD-O code, site of tumor and gender, Iraq, 2021	263
	3.8.2. Number and percentage of cancer among non-Iraqis by age group, gender and ICD-O code, site of tumor Iraq, 2021	264
	3.8.3. Number and percentage of cancer among non-Iraqis by governorates and gender, Iraq, 2021	267
	3.8.4. Number and percentage of cancer mortality among non-Iraqis by ICD-O code, site of tumor, age group, gender and governorates, Iraq, 2021	268

Contents	Page No.
Annex: CanReg5 form	
References	
Summary in Arabic	

List of Tables

Table No.	Table Title	Page No.
1	Top 20 leading cause of death in the Eastern Mediterranean Region, estimated number, 2015 - 2030	4
2	Top 10 leading cause of death in Iraq, 2021	5
3	Estimated number and percentage of Iraq population by gender and age group, 2021	14
4	Estimated number of Iraq population by governorates and gender, 2021	16
5	Number, percentage and the crude incidence rate /100,000 population of cancer by gender, Iraq, 1994-2021	19
6	Number and percentage of cancer by age group and gender, Iraq, 2021	24
7	Number and percentage of cancer by governorates and gender, Iraq, 2021	27
8	Number, percentage and the crude incidence rate/100,000 P of cancer by ICD-O code, site of tumor and gender, Iraq, 2021	31
9	Number and percentage of cancer in males by the ICD-O code/site of tumor and age group, Iraq, 2021	34
10	Number and percentage of cancer in females by the ICD-O code/site of tumor and age group, Iraq, 2021	38
11	Number and percentage of cancers in male by ICD-O code, site of tumor, governorates, Iraq, 2021	42
12	Number and percentage of cancers in female by ICD-O code, site of tumor, governorates, Iraq, 2021	46
13	Number and percentage of the top ten cancers, Iraq, 2021	55
14	Number and percentage of the top ten cancers in males, Iraq, 2021	56
15	Number and percentage of the top ten cancers in females, Iraq, 2021	57
16	Number and percentage of the top ten cancers by age group, Iraq, 2021	58
17	Number and percentage of the top ten cancers by governorates, Iraq, 2021	60
18	Number and percentage of the top ten cancers in Al-Sulaimanyia , Iraq, 2021	67
19	Number and percentage of the top ten cancers in males, Al-Sulaimanyia, Iraq, 2021	68
20	Number and percentage of the top ten cancers in females, Al-Sulaimanyia, Iraq, 2021	69
21	Number, percentage and the crude incidence rate/100,000 Al-Sulaimanyia population of cancer by ICD-O code, site of tumor and gender, in Al-Sulaimanyia, Iraq, 2021	70
22	Number and percentage of the top ten cancers in Erbil, Iraq, 2021	75
23	Number and percentage of the top ten cancers in males, Erbil, Iraq, 2021	76
24	Number and percentage of the top ten cancers in females, Erbil, Iraq, 2021	77
25	Number, percentage and the crude incidence rate/100,000 Erbil population of cancer by ICD-O code, site of tumor and gender, in Erbil, Iraq, 2021	78
26	Number and percentage of the top ten cancers in Karballa, Iraq, 2021	83
27	Number and percentage of the top ten cancers in males, Karballa, Iraq, 2021	84
28	Number and percentage of the top ten cancers in females, Karballa, Iraq, 2021	85

Table No.	Table Title	Page No.
29	Number, percentage and the crude incidence rate/100,000 Karbala population of cancer by ICD-O code, site of tumor and gender, in Karbala, Iraq, 2021	86
30	Number and percentage of the top ten cancers in Baghdad, Iraq, 2021	91
31	Number and percentage of the top ten cancers in males, Baghdad, Iraq, 2021	92
32	Number and percentage of the top ten cancers in females, Baghdad , Iraq, 2021	93
33	Number, percentage and the crude incidence rate/100,000 Baghdad population of cancer by ICD-O code, site of tumor and gender, in Baghdad, Iraq, 2021	94
34	Number and percentage of the top ten cancers in Al-Najaf, Iraq, 2021	99
35	Number and percentage of the top ten cancers in males, Al-Najaf, Iraq, 2021	100
36	Number and percentage of the top ten cancers in females, Al-Najaf, Iraq, 2021	101
37	Number, percentage and the crude incidence rate/100,000 Al-Najaf population of cancer by ICD-O code, site of tumor and gender, in Al-Najaf, Iraq, 2021	102
38	Number and percentage of the top ten cancers in Al-Basrah, Iraq, 2021	107
39	Number and percentage of the top ten cancers in males, Al-Basrah, Iraq, 2021	108
40	Number and percentage of the top ten cancers in females, Al-Basrah, Iraq, 2021	109
41	Number, percentage and the crude incidence rate/100,000 Al-Basrah population of cancer by ICD-O code, site of tumor and gender, in Al-Basrah, Iraq, 2021	110
42	Number and percentage of the top ten cancers in Duhok, Iraq, 2021	115
43	Number and percentage of the top ten cancers in males, Duhok, Iraq, 2021	116
44	Number and percentage of the top ten cancers in females, Duhok, Iraq, 2021	117
45	Number, percentage and the crude incidence rate/100,000 Duhok population of cancer by ICD-O code, site of tumor and gender, in Duhok, Iraq, 2021	118
46	Number and percentage of the top ten cancers in Wasit, Iraq, 2021	123
47	Number and percentage of the top ten cancers in males, Wasit, Iraq, 2021	124
48	Number and percentage of the top ten cancers in females, Wasit, Iraq, 2021	125
49	Number, percentage and the crude incidence rate/100,000 Wasit population of cancer by ICD-O code, site of tumor and gender, in Wasit, Iraq, 2021	126
50	Number and percentage of the top ten cancers in Al-Qadysea, Iraq, 2021	131
51	Number and percentage of the top ten cancers in males, Al-Qadysea, Iraq, 2021	132
52	Number and percentage of the top ten cancers in females, Al-Qadysea, Iraq, 2021	133
53	Number, percentage and the crude incidence rate/100,000 Al-Qadysea population of cancer by ICD-O code, site of tumor and gender, in Al-Qadysea, Iraq, 2021	134
54	Number and percentage of the top ten cancers in ThiQar, Iraq, 2021	139
55	Number and percentage of the top ten cancers in males, ThiQar, Iraq, 2021	140
56	Number and percentage of the top ten cancers in females, ThiQar, Iraq, 2021	141
57	Number, percentage and the crude incidence rate/100,000 ThiQar population of cancer by ICD-O code, site of tumor and gender, in ThiQar, Iraq, 2021	142

Table No.	Table Title	Page No.
58	Number and percentage of the top ten cancers in Babil, Iraq, 2021	147
59	Number and percentage of the top ten cancers in males, Babil, Iraq, 2021	148
60	Number and percentage of the top ten cancers in females, Babil, Iraq, 2021	149
61	Number, percentage and the crude incidence rate/100,000 Babil population of cancer by ICD-O code, site of tumor and gender, in Babil, Iraq, 2021	150
62	Number and percentage of the top ten cancers in Diyala, Iraq, 2021	155
63	Number and percentage of the top ten cancers in males, Diyala, Iraq, 2021	156
64	Number and percentage of the top ten cancers in females, Diyala, Iraq, 2021	157
65	Number, percentage and the crude incidence rate/100,000 Diyala population of cancer by ICD-O code, site of tumor and gender, in Diyala, Iraq, 2021	158
66	Number and percentage of the top ten cancers in Misan, Iraq, 2021	163
67	Number and percentage of the top ten cancers in males, Misan, Iraq, 2021	164
68	Number and percentage of the top ten cancers in females, Misan, Iraq, 2021	165
69	Number, percentage and the crude incidence rate/100,000 Misan population of cancer by ICD-O code, site of tumor and gender, in Misan, Iraq, 2021	166
70	Number and percentage of the top ten cancers, Al-Muthana, Iraq, 2021	171
71	Number and percentage of the top ten cancers in males, Al-Muthana, Iraq, 2021	172
72	Number and percentage of the top ten cancers in females, Al-Muthana, Iraq, 2021	173
73	Number, percentage and the crude incidence rate/100,000 Al-Muthana population of cancer by ICD-O code, site of tumor and gender, in Al-Muthana, Iraq, 2021	174
74	Number and percentage of the top ten cancers in Al-Anbar, Iraq, 2021	179
75	Number and percentage of the top ten cancers in males, Al-Anbar, Iraq, 2021	180
76	Number and percentage of the top ten cancers in females, Al-Anbar, Iraq, 2021	181
77	Number, percentage and the crude incidence rate/100,000 Al-Anbar population of cancer by ICD-O code, site of tumor and gender, in Al-Anbar, Iraq, 2021	182
78	Number and percentage of the top ten cancers in Salah Al-Deen, Iraq, 2021	187
79	Number and percentage of the top ten cancers in males, Salah Al-Deen, Iraq, 2021	188
80	Number and percentage of the top ten cancers in females, Salah Al-Deen, Iraq, 2021	189
81	Number, percentage and the crude incidence rate/100,000 Salah Al-Deen population of cancer by ICD-O code, site of tumor and gender, in Salah Al-Deen, Iraq, 2021	190
82	Number and percentage of the top ten cancers in Nineveh, Iraq, 2021	195
83	Number and percentage of the top ten cancers in males, Nineveh, Iraq, 2021	196
84	Number and percentage of the top ten cancers in females, Nineveh, Iraq, 2021	197
85	Number, percentage and the crude incidence rate/100,000 Nineveh population of cancer by ICD-O code, site of tumor and gender, in Nineveh, Iraq, 2021	198
86	Number and percentage of the top ten cancers in Kirkuk, Iraq, 2021	203
87	Number and percentage of the top ten cancers in males, Kirkuk, Iraq, 2021	204

Table No.	Table Title	Page No.
88	Number and percentage of the top ten cancers in females, Kirkuk, Iraq, 2021	205
89	Number, percentage and the crude incidence rate/100,000 Kirkuk population of cancer by ICD-O code, site of tumor and gender, in Kirkuk, Iraq, 2021	206
90	Number and percentage of the top ten cancers in children 0-14 year, Iraq, 2021	233
91	Number and percentage of the top ten cancers in male children 0-14 year, Iraq, 2021	234
92	Number and percentage of the top ten cancers in female children 0-14 year, Iraq, 2021	235
93	Number and percentage of the top ten cancers in children 0-14 year by age group, Iraq, 2021	236
94	Number and percentage of the top ten cancers in children 0-14year by governorates, Iraq, 2021	237
95	Number, percentage and the crude incidence rate/100,000 children 0-14 year population of cancer in children 0-14 year by ICD-O code, site of tumor and gender, Iraq, 2021	239
96	Number and percentage of the top ten cancers mortality, Iraq, 2021	243
97	Number and percentage of the top ten cancers mortality in male, Iraq, 2021	244
98	Number and percentage of the top ten cancers mortality in female, Iraq, 2021	245
99	Number, percentage and age standardized mortality rate/100,000 population of top ten cancers mortality by age group, Iraq, 2021	246
100	Number and percentage of the top ten cancers mortality by governorates, Iraq, 2021	248
101	Number, percentage and the crude mortality rate/100,000 population of top ten cancer mortality by ICD-O code, site of tumor and gender, Iraq, 2021	250
102	Number and percentage of the top ten cancers mortality in children 0-14 year, Iraq, 2021	253
103	Number and percentage of the top ten cancers mortality in male children 0-14 year, Iraq, 2021	254
104	Number and percentage of the top ten cancers mortality in female children 0-14 year, Iraq, 2021	255
105	Number and percentage of the top ten cancers mortality in children 0-14 year by age group, Iraq, 2021	256
106	Number and percentage of the top ten cancers mortality in children 0-14year by governorates, Iraq, 2021	257
107	Number, percentage and the crude mortality rate/100,000 children 0-14year population of top ten cancer mortality by ICD-O code, site of tumor and gender, Iraq, 2021	259
108	Number and percentage of cancer among non-Iraqis by ICD-O code, site of tumor and gender, Iraq, 2021	263
109	Number and percentage of cancer among Non-Iraqis by age group and gender, Iraq, 2021	264
110	Number and percentage of cancer among non-Iraqi by ICD-O code, site of tumor and age group, Iraq, 2021	265
111	Number and percentage of cancer among Non-Iraqi by governorates and gender, Iraq, 2021	267

Table No.	Table Title	Page No.
112	Number and percentage of cancer mortality among Non-Iraqi by ICD-O code, site of tumor and gender, Iraq, 2021	268
113	Number and percentage of cancer mortality among Non-Iraqi by ICD-O code, site of tumor and age group, Iraq, 2021	268
114	Number and percentage of cancer mortality among Non-Iraqi by ICD-O code, site of tumor and governorates, Iraq, 2021	269

List of Figures

Figure No.	Figure Title	Page No.
1	Pyramid of the estimated percentage of Iraq's population by gender and age group, 2021	15
2	Percentage of new cases of cancer by gender, Iraq, 1994-2021	20
3	Trend of the crude incidence rate of cancer in Iraq/100,000 population, 1994 – 2021	21
4	Crude incidence rate of new cases of cancer in Iraq /100,000 population by age group and gender, 2021	25
5	ASIR /100,000 population of new cases of cancer, Iraq, 2021	26
6	Crude incidence rate of cancer /100,000 populations by governorates, Iraq, 2021	28
7	Crude incidence rate of cancer in males /100,000 male population by governorates, Iraq, 2021	29
8	Crude incidence rate of cancer in females /100,000 female population by governorates, Iraq, 2021	30
9	Crude incidence rate of the top ten cancer /100,000 populations, Iraq, 2021	55
10	Crude incidence rate of the top ten cancer in males /100,000 male populations, Iraq, 2021	56
11	Crude incidence rate of the top ten cancer in females /100,000 male populations, Iraq, 2021	57
12	Crude incidence rate of the top ten cancer /100, 000 populations by age group, Iraq, 2021	59
13	Crude incidence rate of the top ten cancer /100, 000 populations by governorates, Iraq, 2021	61
14	Crude incidence rate of the top ten cancers in Al-Sulaimanyia /100,000 Al-Sulaimanyia populations, Iraq, 2021	67
15	Crude incidence rate of the top ten cancers in males /100,000 male populations, Al-Sulaimanyia , Iraq, 2021	68
16	Crude incidence rate of the top ten cancers in females /100,000 female populations, Al-Sulaimanyia , Iraq, 2021	69
17	Crude incidence rate of the top ten cancers in Erbil/100,000 Erbil populations, Iraq, 2021	75
18	Crude incidence rate of the top ten cancers in males / 100,000 male populations, Erbil, Iraq, 2021	76
19	Crude incidence rate of the top ten cancers in females /100,000 female populations, Erbil, Iraq, 2021	77
20	Crude incidence rate of the top ten cancers in Karbala/100,000 Karbala populations, Iraq, 2021	83
21	Crude incidence rate of the top ten cancers in males /100,000 male populations, Karbala, Iraq, 2021	84
22	Crude incidence rate of the top ten cancers in females / 100,000 female populations, Karbala, Iraq, 2021	85
23	Crude incidence rate of the top ten cancers in Baghdad /100,000 Baghdad populations, Iraq, 2021	91

Figure No.	Figure Title	Page No.
24	Crude incidence rate of the top ten cancers in males / 100,000 male populations, Baghdad, Iraq, 2021	92
25	Crude incidence rate of the top ten cancers in females / 100,000 female populations, Baghdad, Iraq, 2021	93
26	Crude incidence rate of the top ten cancers in Al-Najaf /100,000 Al-Najaf populations, Iraq, 2021	99
27	Crude incidence rate of the top ten cancers in males / 100,000 male populations, Al-Najaf, Iraq, 2021	100
28	Crude incidence rate of the top ten cancers in females / 100,000 female populations, Al-Najaf, Iraq, 2021	101
29	Crude incidence rate of the top ten cancers in Al-Basrah/100,000 Al-Basrah populations, Iraq, 2021	107
30	Crude incidence rate of the top ten cancers in males / 100,000 male populations, Al-Basrah, Iraq, 2021	108
31	Crude incidence rate of the top ten cancers in females / 100,000 female populations, Al-Basrah, Iraq, 2021	109
32	Crude incidence rate of the top ten cancers in Duhok /100,000 Duhok populations, Iraq, 2021	115
33	crude incidence rate of the top ten cancers in males / 100,000 male populations, Duhok, Iraq, 2021	116
34	Crude incidence rate of the top ten cancers in females/100,000 female populations, Duhok, Iraq, 2021	117
35	Crude incidence rate of the top ten cancers in Wasit /100,000 Wasit populations, Iraq, 2021	123
36	Crude incidence rate of the top ten cancers in males / 100,000 male populations, Wasit, Iraq, 2021	124
37	Crude incidence rate of the top ten cancers in females / 100,000 female populations, Wasit, Iraq, 2021	125
38	Crude incidence rate of the top ten cancers in Al-Qadysea /100,000 Al-Qadysea populations, Iraq, 2021	131
39	Crude incidence rate of the top ten cancers in males / 100,000 male populations, Al-Qadysea , Iraq, 2021	132
40	Crude incidence rate of the top ten cancers in females / 100,000 female populations, Al-Qadysea , Iraq, 2021	133
41	Crude incidence rate of the top ten cancers in ThiQar /100,000 ThiQar populations, Iraq, 2021	139
42	Crude incidence rate of the top ten cancers in males / 100,000 male populations, ThiQar , Iraq, 2021	140
43	Crude incidence rate of the top ten cancers in females / 100,000 female populations, ThiQar, Iraq, 2021	141
44	Crude incidence rate of the top ten cancers in Babil /100,000 Babil populations, Iraq, 2021	147
45	Crude incidence rate of the top ten cancers in males / 100,000 male populations, Babil, Iraq, 2021	148
46	Crude incidence rate of the top ten cancers in females / 100,000 female populations, Babil, Iraq, 2021	149
47	Crude incidence rate of the top ten cancers in Diyala /100,000 Diyala populations, Iraq, 2021	155

Figure No.	Figure Title	Page No.
48	Crude incidence rate of the top ten cancers in males / 100,000 male populations, Diyala, Iraq, 2021	156
49	Crude incidence rate of the top ten cancers in females / 100,000 female populations, Diyala, Iraq, 2021	157
50	Crude incidence rate of the top ten cancers in Misan/100,000 Misan populations, Iraq, 2021	163
51	Crude incidence rate of the top ten cancers in males / 100,000 male populations, Misan, Iraq, 2021	164
52	Crude incidence rate of the top ten cancers in females / 100,000 female populations, Misan, Iraq, 2021	165
53	Crude incidence rate of the top ten cancers in Al-Muthana /100,000 Al-Muthana populations, Iraq, 2021	171
54	Crude incidence rate of the top ten cancers in males / 100,000 male populations, Al-Muthana, Iraq, 2021	172
55	Crude incidence rate of the top ten cancers in females / 100,000 female populations, Al-Muthana, Iraq, 2021	173
56	Crude incidence rate of the top ten cancers in Al-Anbar /100,000 Al-Anbar populations, Iraq, 2021	179
57	Crude incidence rate of the top ten cancers in males / 100,000 male populations, Al-Anbar , Iraq, 2021	180
58	Crude incidence rate of the top ten cancers in females / 100,000 female populations, Al-Anbar , Iraq, 2021	181
59	Crude incidence rate of the top ten cancers in Salah Al-Deen /100,000 Salah Al-Deen populations, Iraq, 2021	187
60	Crude incidence rate of the top ten cancers in males / 100,000 male populations, Salah Al-Deen , Iraq, 2021	188
61	Crude incidence rate of the top ten cancers in females /100,000 female populations, Salah Al-Deen , Iraq, 2021	189
62	Crude incidence rate of the top ten cancers in Nineveh /100,000 Nineveh populations, Iraq, 2021	195
63	Crude incidence rate of the top ten cancers in males / 100,000 male populations, Nineveh, Iraq, 2021	196
64	Crude incidence rate of the top ten cancers in females / 100,000 female populations, Nineveh, Iraq, 2021	197
65	The incidence rate of the top ten cancers in Kirkuk /100,000 Kirkuk populations, Iraq, 2021	203
66	The incidence rate of the top ten cancers in males / 100,000 male populations, Kirkuk, Iraq, 2021	204
67	The incidence rate of the top ten cancers in females / 100,000 female populations, Kirkuk, Iraq, 2021	205
68	Bronchus & lung cancer in the males by the type of morphology, Iraq, 2021	211
69	Urinary bladder cancer in the males by the type of morphology, Iraq, 2021	212
70	Colorectal cancer in the males by the type of morphology, Iraq, 2021	213
71	Prostate cancer in the males by the type of morphology, Iraq, 2021	214

Figure No.	Figure Title	Page No.
72	Brain & other CNS tumor in the males by the type of morphology, Iraq, 2021	215
73	Leukemia in the males by the type of morphology, Iraq, 2021	216
74	Non-Hodgkin Lymphomas in the males by the type of morphology, Iraq, 2021	217
75	Skin cancer in the males by the type of morphology, Iraq, 2021	218
76	Stomach cancer in the males by the type of morphology, Iraq, 2021	219
77	Kidney cancer in the males by the type of morphology, Iraq, 2021	220
78	Breast cancer in the females by the type of morphology, Iraq, 2021	221
79	Thyroid gland cancer in the females by the type of morphology, Iraq, 2021	222
80	Colorectal cancer in the females by the type of morphology, Iraq, 2021	223
81	Brain & other CNS tumor cancer in the females by the type of morphology, Iraq, 2021	224
82	Bronchus & lung cancer in female by the type of morphology, Iraq, 2021	225
83	Ovary cancer in the females by the type of morphology, Iraq, 2021	226
84	Leukemia in the females by the type of morphology, Iraq, 2021	227
85	Uterus unspecified cancer in the females by the type of morphology, Iraq, 2021	228
86	Non-Hodgkin Lymphoma in the females by the type of morphology, Iraq, 2021	229
87	Stomach cancer in the females by the type of morphology, Iraq, 2021	230
88	Crude incidence rate of top ten cancers in children 0-14 year /100, 000 children 0-14 year populations, Iraq, 2021	233
89	Crude incidence rate of top ten cancers in male children 0-14 year /100, 000 male children 0-14 year populations, Iraq, 2021	234
90	Crude incidence rate of top ten cancers in female children 0-14 year /100, 000 female children 0-14 year populations, Iraq, 2021	235
91	Crude incidence rate of top ten cancers in children 0-14 year /100,000 children 0-14 year populations by age group, Iraq, 2021	236
92	Crude incidence rate of top ten cancers in children 0-14year / 100,000 children 0-14 year populations by governorates, Iraq, 2021	238
93	Crude mortality rate of the top ten cancers in Iraq/ 100,000 populations, 2021	243
94	Crude mortality rate of the top ten cancers in male/ 100,000 male populations, Iraq, 2021	244
95	Crude mortality rate of the top ten cancers in female/ 100,000 female populations, Iraq, 2021	245
96	Crude mortality rate/100,000 population of the top ten cancers by age group, 2021	247
97	Crude mortality rate of the top ten cancers in Iraq/100,000 populations by governorates, 2021	249

Figure No.	Figure Title	Page No.
98	Crude mortality rate of the top ten cancers mortality in children 0-14 year /100, 000 children 0-14 year populations, Iraq, 2021	253
99	Crude mortality rate of the top ten cancers mortality in male children 0-14 year /100, 000 male children 0-14 year populations, Iraq, 2021	254
100	Crude mortality rate of the top ten cancers mortality in female children 0-14 year /100, 000 female children 0-14 year populations, Iraq, 2021	255
101	Crude mortality rate of the top ten cancers mortality in children 0-14 year /100,000 children 0-14 year populations by age group, Iraq, 2021	256
102	Crude mortality rate of the top ten cancers mortality in children 0-14 year /100,000 children 0-14 year populations by governorates, Iraq, 2021	258

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
ASIR	Age standardized incidence rate
CNS	Central nervous system
ASMR	Age standardized mortality rate

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, centers and laboratories (public and private) in all directorates of health in Iraq by the CanReg5 program.

The total number of new cases of cancer during the year 2021 was 35,815. The age standardized incidence rate was 149.10/100,000. Related to the governorates the highest crude incidence rate in Iraq was recorded in Al-Sulaimanyia (118.87/100,000 P). In males, the highest crude incidence rate was recorded in Al-Sulaimanyia (113.55/100,000 MP), while in females the highest crude incidence rate was recorded in Karbala (125.06/100,000 FP). The lowest crude incidence rate in Iraq was recorded in Kirkuk (62.93/100,000 P), the lowest crude incidence rate in males and female was recorded in Kirkuk also (male: 51.20/100,000 MP, female: 71.62/100,000 FP).

The trend of the crude incidence rate of new cases of cancer increased from the year 1994 (38.91/100,000 P) to the year 2021 (86.94/100,000 P).

The top ten cancers in both genders were breast (20.23%, 17.59/100,000 P), bronchus & lung (7.82%, 6.80/100,000 P), colorectal (6.96%, 6.05/100,000 P), brain & other central nervous system tumor (CNS) (5.25%, 4.57/100,000 P), urinary bladder (4.94%, 4.29/100,000 P), thyroid gland (4.92%, 4.28/100,000 P), leukemia (4.84%, 4.20/100,000 P), Non-Hodgkin lymphomas (4%, 3.48/100,000 P), prostate (3.67%, 6.31/100,000 MP) and skin, other (3.41%, 2.96/100,000 P).

The top ten cancers in males were bronchus & lung (12.57 %, 9.38/100,000 MP), urinary bladder (8.76%, 6.54/100,000 MP), colorectal (8.547%, 6.37/100,000 MP), prostate (8.46%, 6.31/100,000 MP), brain & other central nervous system tumor (CNS) (6.43%, 4.80/100,000 MP), leukemia (6.27%, 4.68/100,000 MP), Non-Hodgkin lymphomas (5.15%, 3.84/100,000 MP), skin, other (4.31%, 3.21/100,000 MP), stomach (4.02%, 3/100,000 MP), and kidney (3.78%, 2.82/100,000 MP).

The top ten cancers in females were breast (35.02%, 34.87/100,000 FP), thyroid gland (6.94%, 6.91/100,000 FP), colorectal (5.75%, 5.73/100,000 FP), brain & other central nervous system tumor (CNS) (4.35%, 4.33/100,000 FP), bronchus & lung (4.19%, 4.17/100,000 FP), ovary (3.95%, 3.93/100,000 FP), leukemia (3.74%, 3.72/100,000 FP), uterus unspecified (3.19%, 3.18/100,000 FP), Non-Hodgkin lymphomas (3.12%, 3.11/100,000 FP), and stomach (2.75%, 2.74/100,000 FP).

The total number of cancer in children (0-14 years) was 1,802 out of the 35,815 represent 5.03% of total cases of cancer of all age groups, with crude incidence rate 10.81/100,000 children 0-14 year P. Related to the age group the highest crude incidence rate of top ten cancers was 0 - <5 years (12.08/100,000 children 0-14 year P). The highest crude incidence rate of cancer in children was leukemia (3.41/100,000 children 0-14 years P). Related to the governorates the highest crude incidence rate of top ten cancers in children (0-14 years) was recorded in Al-Najaf (11.60/100,000 children 0-14 year Populations) and the lowest was in Babil (6.34/100,000 children 0-14 year P).

The total number of cancer mortality during the year 2021 was 10,909. The age standardized mortality rate of top ten cancer was 36.61/100,000 P. The highest crude mortality rate of cancers, in general was bronchus & lung cancer (16.10%, 4.26/100,000 P), also the highest crude mortality rate of cancer in males was bronchus & lung cancer (21.70%, 5.63/100,000 MP), while in females the highest crude mortality rate of cancer was breast cancer (24.97%, 6.75/100,000 FP). Related to the age group the highest crude mortality rate of the top ten cancers was among the age group 75-80 years. As to the governorates, the highest crude mortality rate of the top ten cancers was recorded in Karballa governorate (4.91%, 30.45/100,000 P).

The total number of cases of cancer among Non-Iraqis during the year 2021 was 129, the most affected age group in male was 60-65years, while most affected age group in female were was 50-55year. Male to female ratio were 1:3. The highest percentage of cancer in male was leukemia (16.07%) followed by bronchus & lung cancer (14.29%), while in female was breast cancer (50.68%) followed by bronchus & lung cancer (6.85%). The highest percentage of cases in both genders was reported in Erbil province (48.06%). The total number of cancer mortality among Non-Iraqis was 9 (5 females and 4 males). The highest percentage of mortality was reported in Duhok governorate (66.67%).

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 seventh leading cause of death in 2021, Table No.; (2).

Table No.; (2) Top 10 leading cause of death in Iraq, 2021 ^[5]

Rank	2021
1	Covid - 19
2	Ischemic heart disease
3	Cerebrovascular diseases
4	Hypertensive disease
5	Other form of heart disease
6	Diabetes mellitus
7	Malignant neoplasm
8	Renal failure
9	Respiratory and cardiovascular disorders specific to the pre-natal period
10	Road Traffic Accident

Iraqi Cancer Registry

1. Iraqi Cancer Registry (ICR):

1.1. Background 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 2010.

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 and centers (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 5(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.

Demography *of Iraq*

2. Demography of Iraq:

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 2021 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, 2021**

Age Groups	Male		Female		Total	
	No.	%	No.	%	No.	%
0 - <5	3102589	7.53	2941036	7.14	6043625	14.67
5 - <10	2895522	7.03	2725741	6.62	5621263	13.65
10 - <15	2587746	6.28	2415762	5.86	5003508	12.15
15 - <20	2270496	5.51	2145237	5.21	4415733	10.72
20 - <25	1983301	4.81	1830376	4.44	3813677	9.26
25 - <30	1555562	3.78	1512480	3.67	3068042	7.45
30 - <35	1362110	3.31	1401709	3.40	2763819	6.71
35 - <40	1161001	2.82	1224044	2.97	2385045	5.79
40 - <45	1094813	2.66	1109441	2.69	2204254	5.35
45 - <50	809102	1.96	833121	2.02	1642223	3.99
50 - <55	477066	1.16	594087	1.44	1071153	2.60
55 - <60	542340	1.32	567550	1.38	1109890	2.69
60 - <65	373496	0.91	408222	0.99	781718	1.90
65 - <70	245863	0.60	256125	0.62	501988	1.22
70 - <75	160390	0.39	161417	0.39	321807	0.78
75 - <80	84488	0.21	101806	0.25	186294	0.45
80+	104594	0.25	152025	0.37	256619	0.62
Total	20810479	50.52	20380179	49.48	41190658	100.00

Figure No.; (1) pyramid of the estimated percentage of Iraq population by gender and age group, 2021

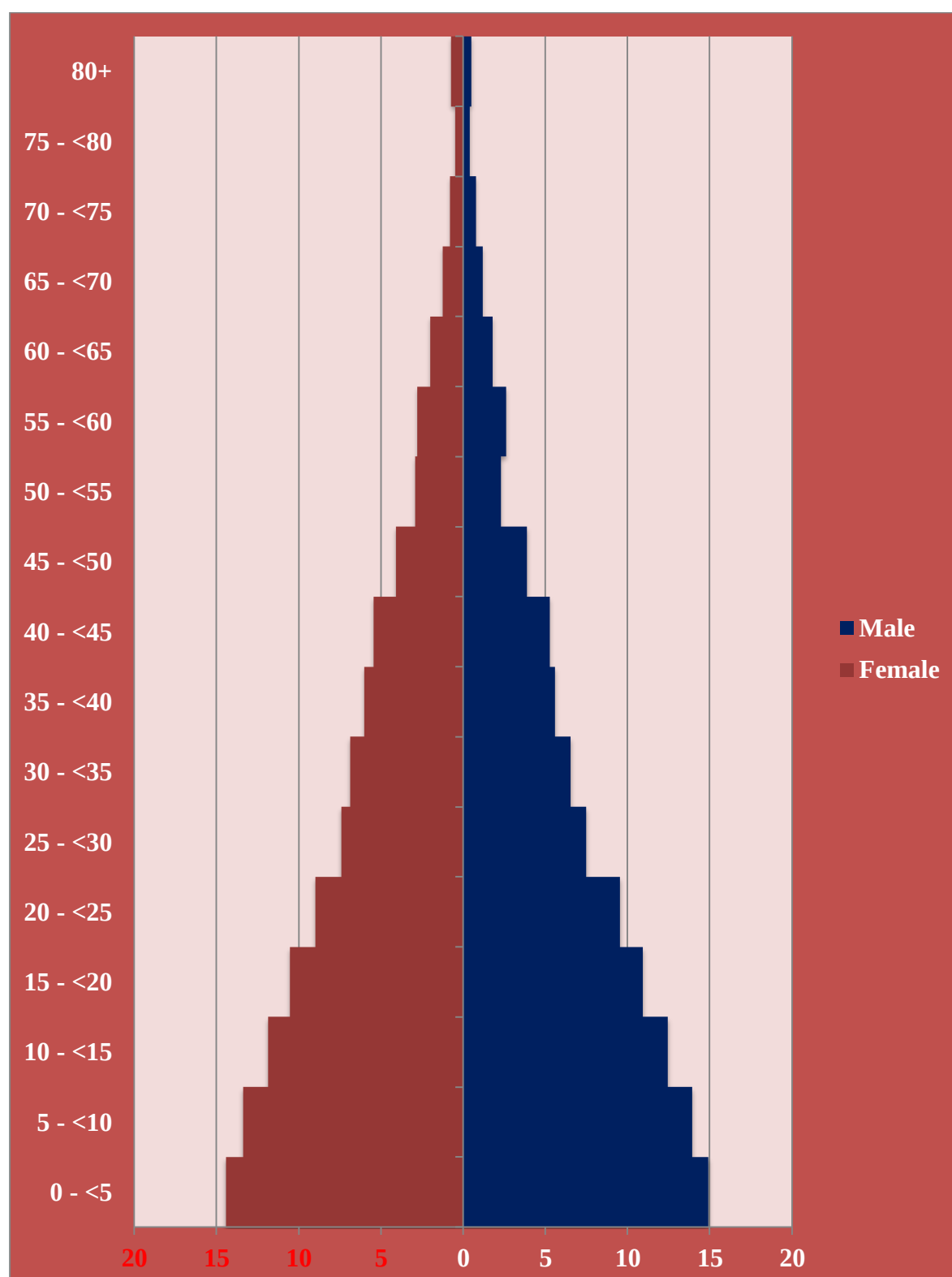


Table No.; (4) Estimated number of Iraq population by governorates and gender, 2021

Governorates	Male		Female		Total	
	No.	%	No.	%	No.	%
Baghdad	4455310	10.82	4325112	10.50	8780422	21.32
Nineveh	2058650	5.00	1971356	4.79	4030006	9.78
Al-Basra	1578658	3.83	1563791	3.80	3142449	7.63
Sulimanya	1168671	2.84	1167520	2.83	2336191	5.67
ThiQar	1136218	2.76	1127477	2.74	2263695	5.50
Babil	1127353	2.74	1103783	2.68	2231136	5.42
Erbil	1011698	2.46	992265	2.41	2003963	4.87
Al-Anbar	983386	2.39	930779	2.26	1914165	4.65
Diyala	893575	2.17	875345	2.13	1768920	4.29
Kirkuk	869063	2.11	857346	2.08	1726409	4.19
Salah Al-Deen	870617	2.11	852929	2.07	1723546	4.18
Al-Najaf	797173	1.94	792788	1.92	1589961	3.86
Wasit	752017	1.83	737614	1.79	1489631	3.62
Duhok	699760	1.70	696720	1.69	1396480	3.39
Al-Qadysea	703044	1.71	691841	1.68	1394885	3.39
Karbala	664246	1.61	652504	1.58	1316750	3.20
Misan	598896	1.45	603279	1.46	1202175	2.92
Al-Muthana	442144	1.07	437730	1.06	879874	2.14
Total	20810479	50.52%	20380179	49.48%	41190658	100.00%

Results

History of Cancer in Iraq

3. Results:

3.1. History of Cancer in Iraq:

3.1.1. Number, percentage and the crude incidence rate/100, 000 populations of new cases of cancer by gender, Iraq, 1994 - 2021:

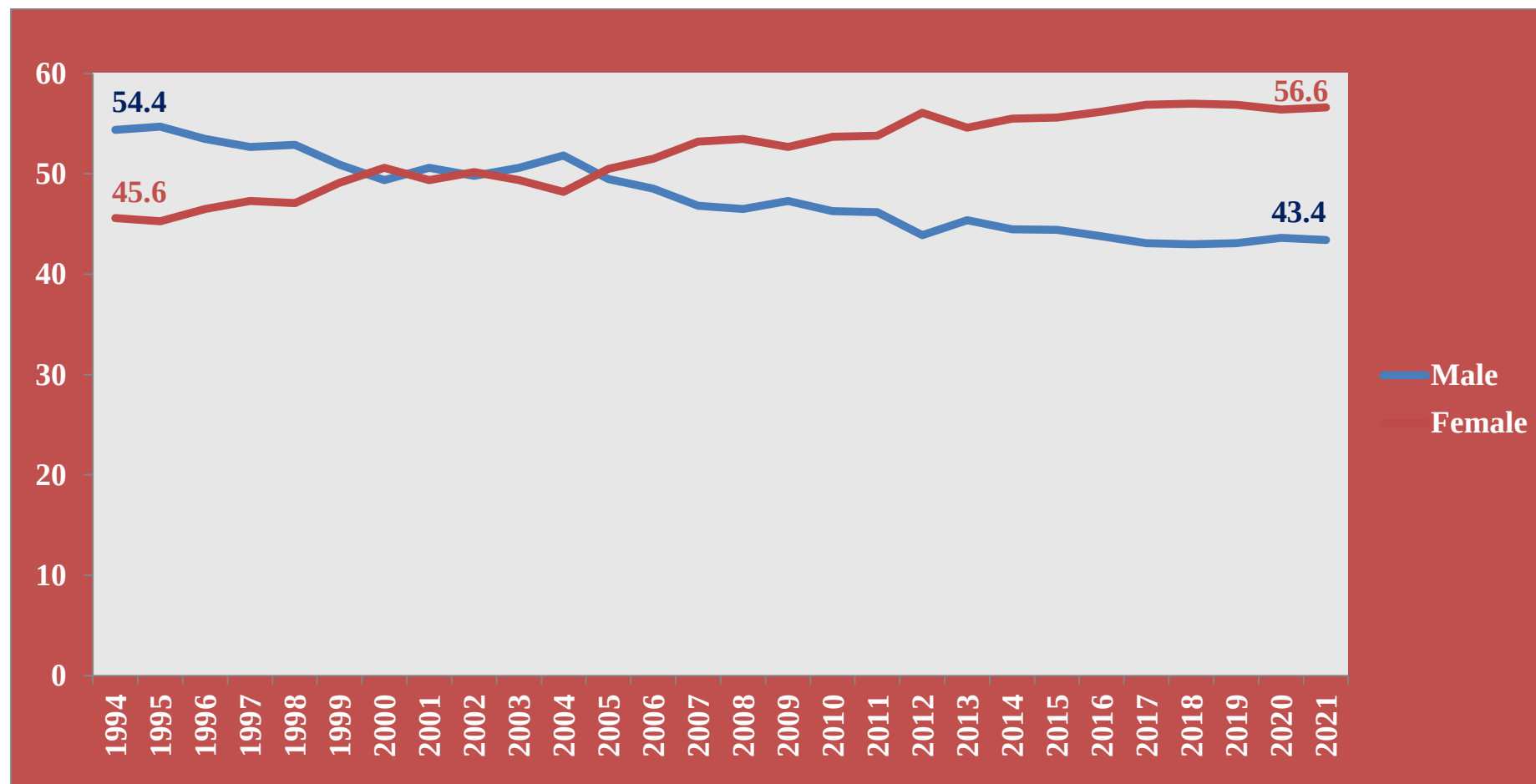
Table No.; (5) Figure No.; (2 & 3) shows the number, percentage and the crude incidence rate of new cases of cancer in Iraq for the period from 1994 to 2021, which shows that the number, percentage and the crude incidence rate/100, 000 populations of new cases of cancer was increased with time.

Table No.; (5) Number, percentage and the crude incidence rate /100,000 populations of new cases of cancer by gender, Iraq, 1994-2021

Year	Male		Female		Total		IR 100,000 P
	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
2020	13841	43.7	17851	56.3	31,692	100.00	78.93
2021	15525	43.35%	20290	56.65%	35815	100.00%	86.95

From 1994 till 2004 without Kurdistan Region (Erbil, Duhok, and Al-Sulaimaniya governorates)

Figure No.; (2) Percentage of new cases of cancer by gender, Iraq, 1994-2021

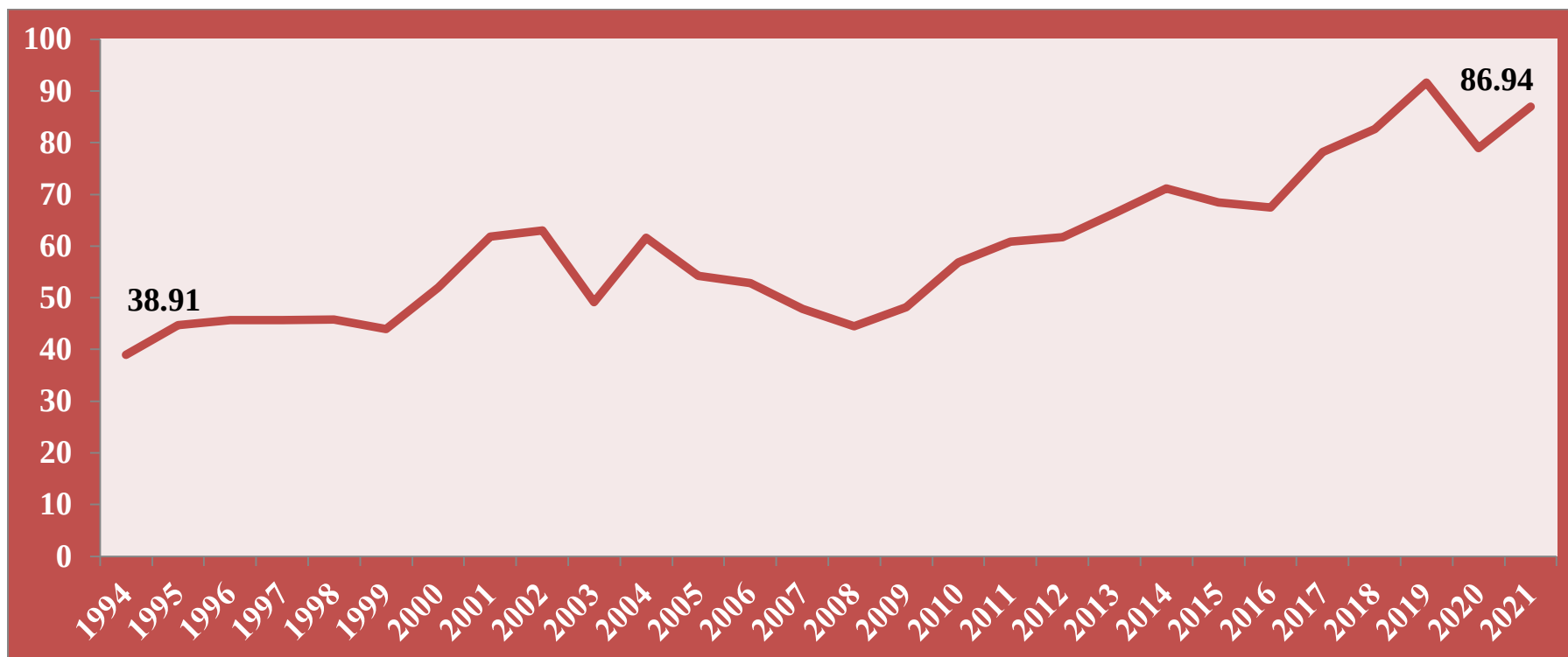


Note: From 1994 till 2004 without Kurdistan Region (Erbil, Duhok, and Al-Sulaimaniya governorates).

3.1.2. The trend of the crude incidence rate of new cases of cancer, Iraq, 1994-2021:

Figure No.; (4) shows that the trend of the crude incidence rate of new cases of cancer in Iraq for the last 28 years, which shows that the trend increased with time.

Figure No.; (3) Trend of the crude incidence rate of new cases of cancer in Iraq/100,000 populations, 1994 – 2021



Note: From 1994 till 2004 without Kurdistan Region (Erbil, Duhok, and Al-Sulaimaniya governorates)

Results

New Cases of Cancer in Iraq *2021*

3.2. New Cases of Cancer in Iraq, 2021:

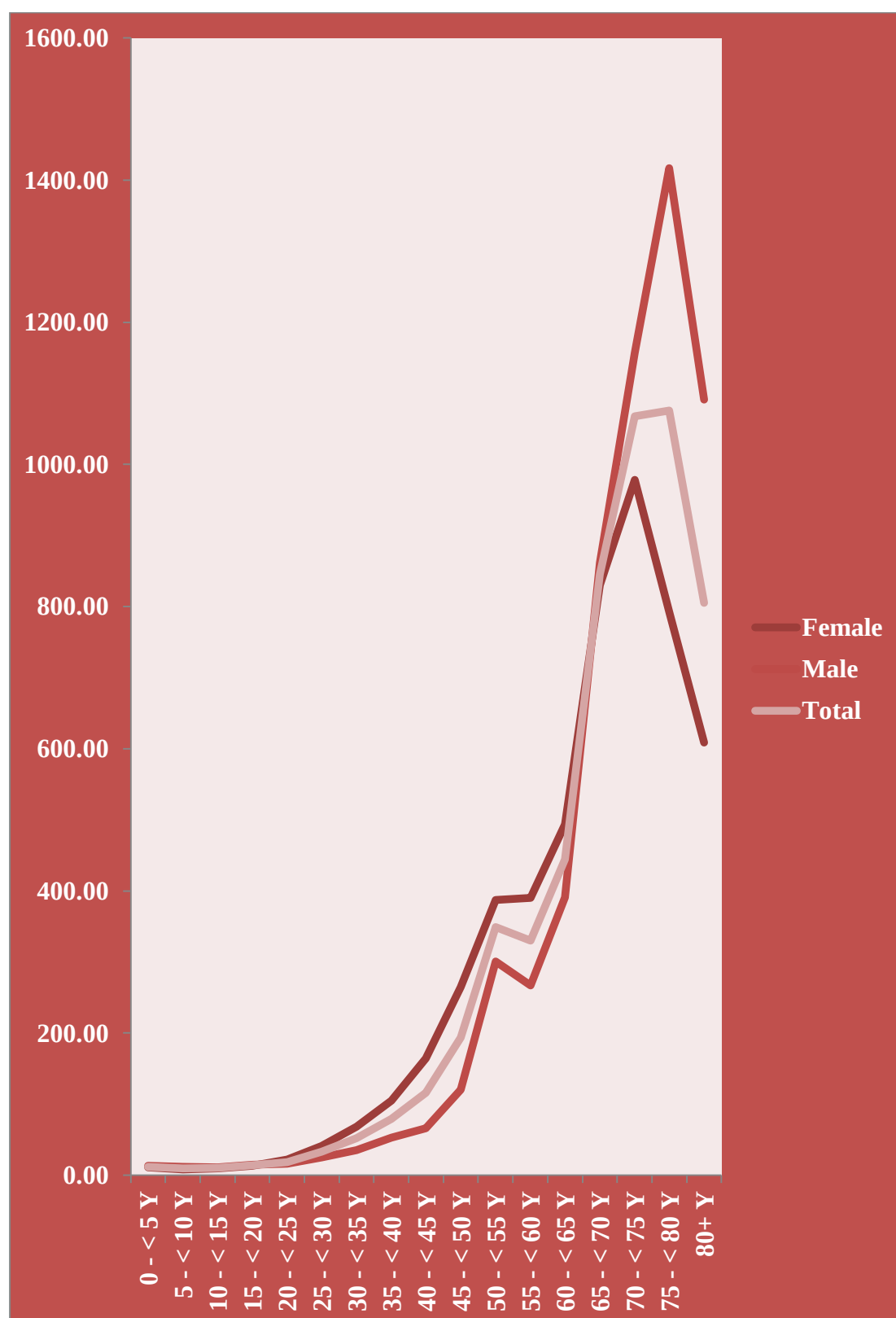
3.2.1. Number, percentage and crude incidence rate /100,000 population of cancer by age group and gender, Iraq, 2021:

Table No.; (6), Figure No.; (4) shows that the total number of cancer cases was 35,815. The highest number and percentage of the total were recorded among the age group 65-70 years (No.4245 – 11.85 %). The peak crude incidence rate /100,000 populations were reported among the age group 75-80 years in both genders.

Table No.; (6) Number and percentage of cancer by age group and gender, Iraq, 2021

Age group	Female		Male		Total	
	No.	%	No.	%	No.	%
0 - 5	313	0.87	417	1.16	730	2.04
5 - < 10	213	0.59	336	0.94	549	1.53
10 - < 15	235	0.66	288	0.80	523	1.46
15 - < 20	282	0.79	337	0.94	619	1.73
20 - < 25	397	1.11	315	0.88	712	1.99
25 - < 30	618	1.73	392	1.09	1010	2.82
30 - < 35	958	2.67	479	1.34	1437	4.01
35 - < 40	1280	3.57	613	1.71	1893	5.29
40 - < 45	1825	5.10	721	2.01	2546	7.11
45 - < 50	2203	6.15	971	2.71	3174	8.86
50 - < 55	2302	6.43	1435	4.01	3737	10.43
55 - < 60	2213	6.18	1447	4.04	3660	10.22
60 - < 65	2014	5.62	1461	4.08	3475	9.70
65 - < 70	2126	5.94	2119	5.92	4245	11.85
70 - < 75	1579	4.41	1856	5.18	3435	9.59
75 - < 80	807	2.25	1197	3.34	2004	5.60
80+	925	2.58	1141	3.19	2066	5.77
Total	20290	56.65	15525	43.35	35815	100.00%

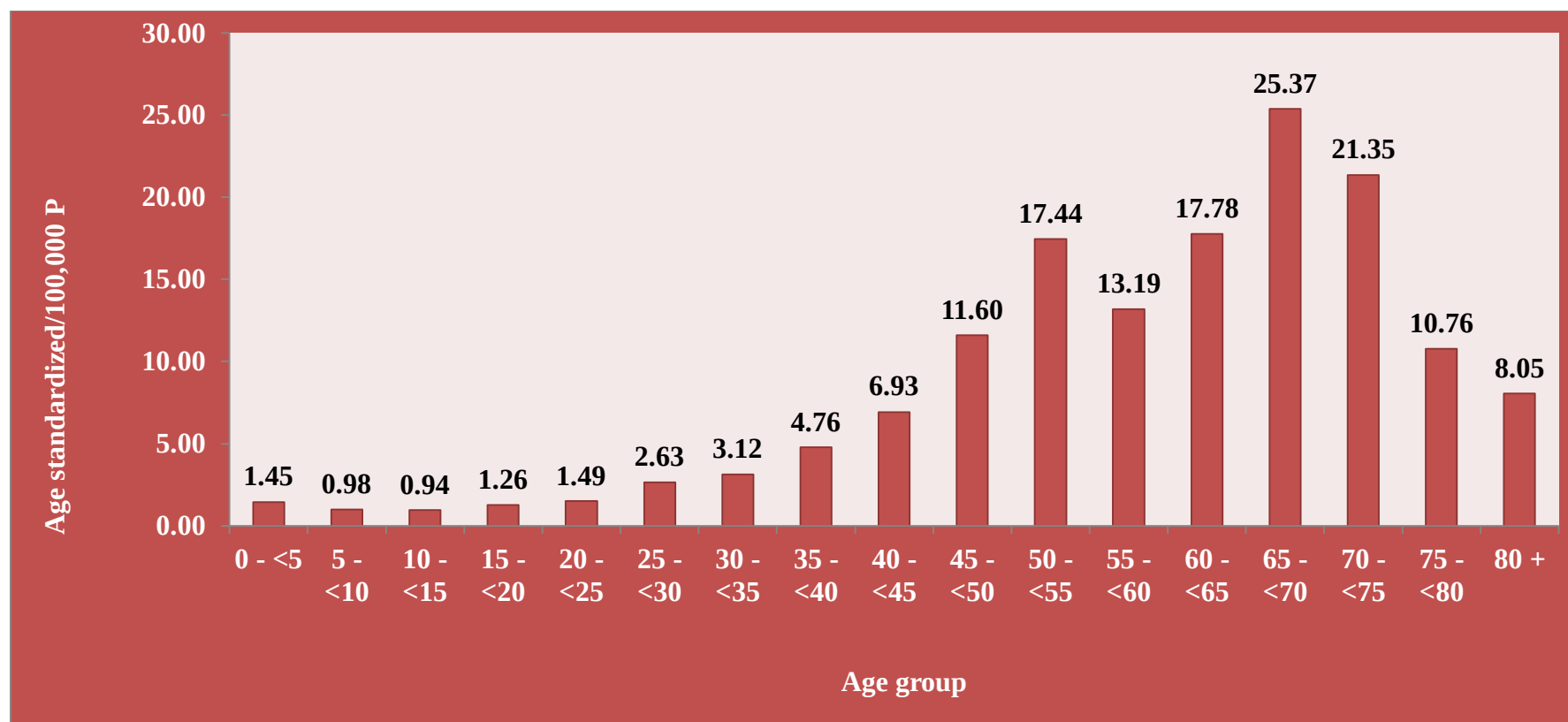
Figure No.; (4) Crude incidence rate of new cases of cancer in Iraq /100,000 populations by age group and gender, 2021



3.2.2 Age standardized incidence rate /100,000 populations of cancer, Iraq, 2021:

Figure No.; (5) shows that the highest ASIR /100,000 populations were recorded among the age group 65-70 years.

Figure No.; (5) ASIR /100,000 population of new cases of cancer, Iraq, 2021



3.2.3. Number, percentage and crude incidence rate of cancer by governorates and gender, Iraq, 2021:

Table No.; (7) shows that the highest number and percentage of cancer in Iraq in both genders was in Baghdad [(female No. 5255 – 14.67%) (male No. 3477 – 9.71%)] and the lowest was in Al-Muthana [(female No. 335 – 0.94%) (Male No. 276 – 0.77%)]

Table No.; (7) Number and percentage of cancer by governorates and gender, Iraq, 2021

Governorates	Female		Male		Total	
	No.	%	No.	%	No.	%
Baghdad	5255	14.67	3477	9.71	8732	24.38
Al-Basrah	1609	4.49	1249	3.49	2858	7.98
Al-Sulaimanyia	1448	4.04	1327	3.71	2775	7.75
Nineveh	1425	3.98	1111	3.1	2536	7.08
Erbil	1210	3.38	1098	3.07	2308	6.44
ThiQar	959	2.68	812	2.27	1771	4.94
Babil	948	2.65	760	2.12	1708	4.77
Al-Najaf	814	2.27	658	1.84	1472	4.11
Karballa	816	2.28	592	1.65	1408	3.93
Wasit	733	2.05	601	1.68	1334	3.72
Diyala	789	2.2	540	1.51	1329	3.71
Al-Anbar	764	2.13	556	1.55	1320	3.69
Duhok	676	1.89	580	1.62	1256	3.51
Al-Qadysea	638	1.78	530	1.48	1168	3.26
Salah Al-Deen	687	1.92	469	1.31	1156	3.23
Kirkuk	614	1.71	445	1.24	1059	2.96
Misan	472	1.32	377	1.05	849	2.37
Al-Muthana	335	0.94	276	0.77	611	1.71
Unknown	98	0.27	67	0.19	165	0.46
Total	20290	56.65%	15525	43.35%	35815	100.00%

Figure No.; (6) shows that the highest crude incidence rate in Iraq was in Al-Sulaimanyia (118.78/100,000 TP), and the lowest crude incidence rate was in Kirkuk (61.34/100,000 TP).

Figure No.; (6) Crude incidence rate of cancer /100,000 populations by governorates, Iraq, 2021

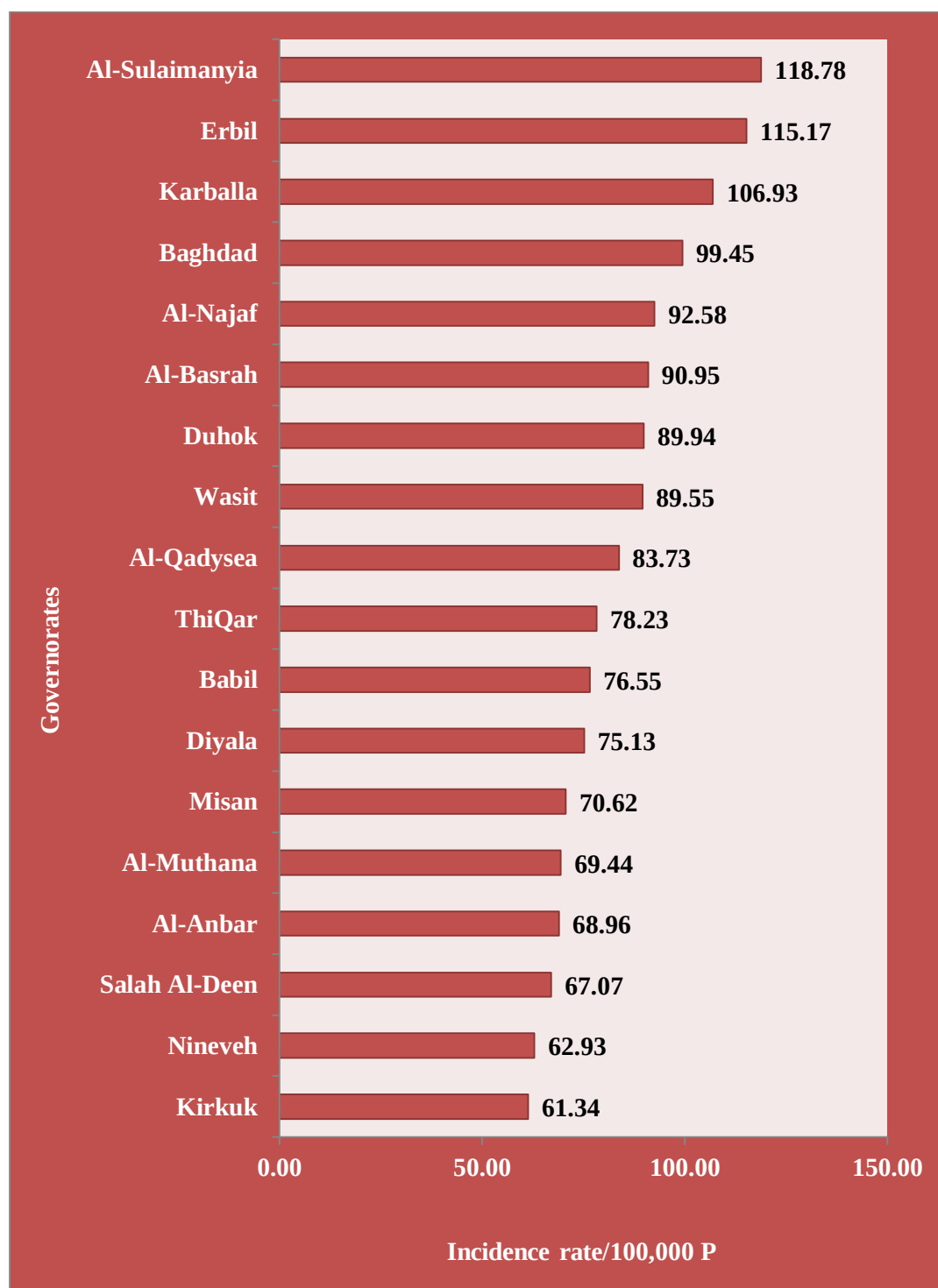


Figure No.; (7) shows that the highest crude incidence rate in males was in Al-Sulaimanyia (113.55/100,000 MP), and the lowest crude incidence rate was in Kirkuk (male 51.20/100,000 MP).

Figure No.; (7) Crude incidence rate of cancer in males/100,000 male populations by governorates, Iraq, 2021

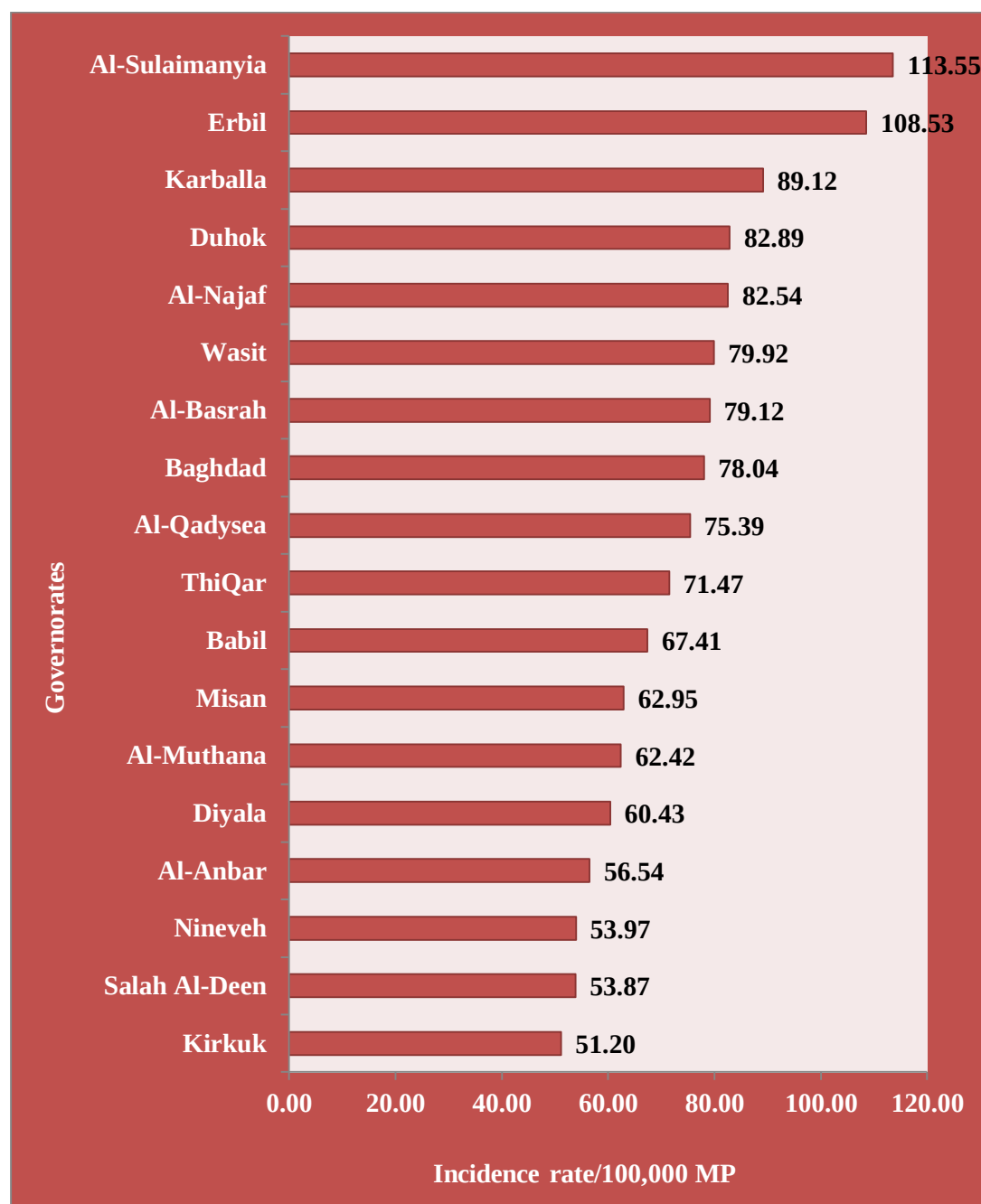
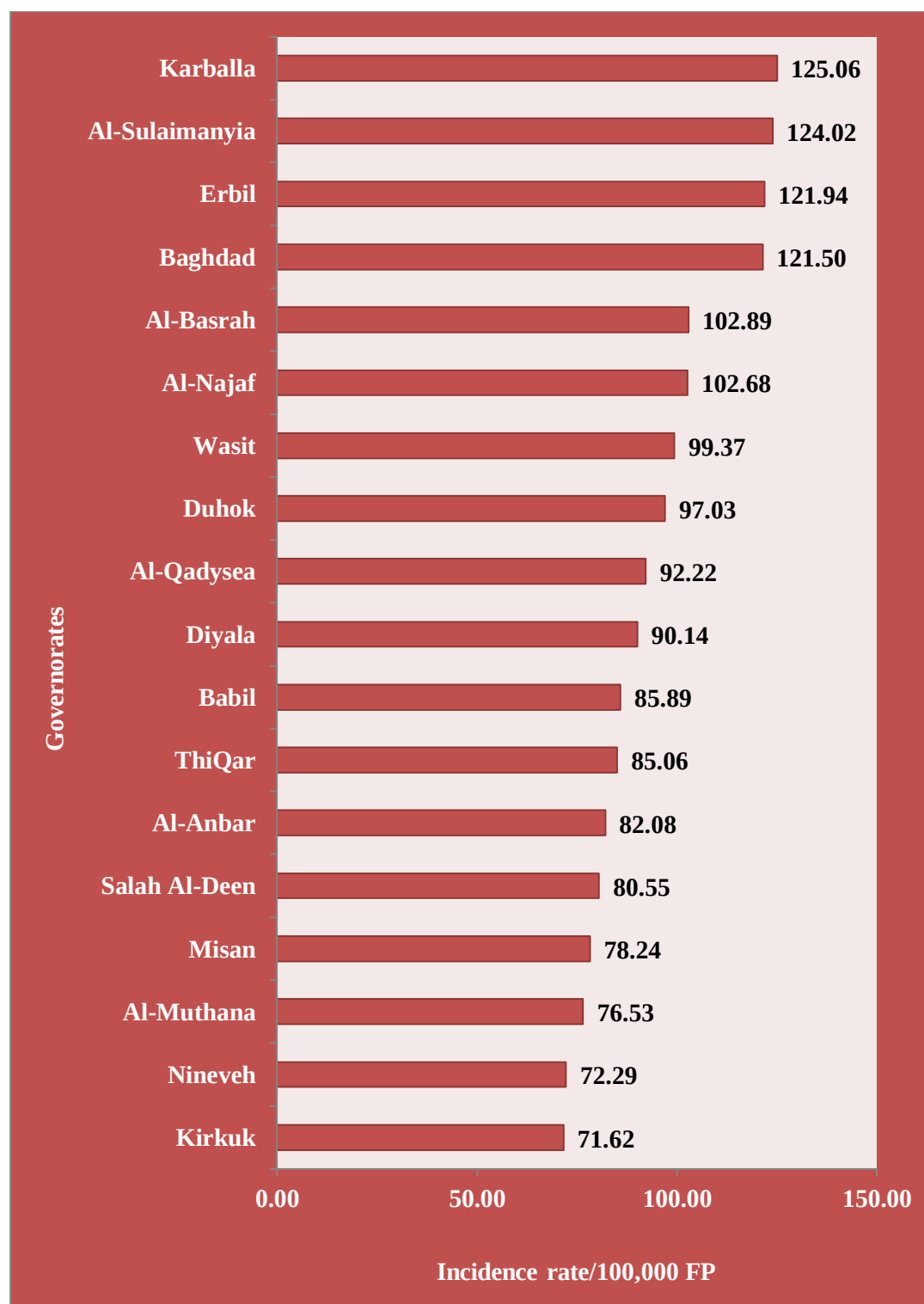


Figure No.; (8) shows that the highest crude incidence rate in females was in Karballa (125.06/100,000 FP), and the lowest crude incidence rate was in Kirkuk (71.62/100,000 FP).

Figure No.; (8) Crude incidence rate of cancer in females/100,000 female populations by governorates, Iraq, 2021



3.2.4. Number, percentage and the crude incidence rate/100,000 P of cancer by ICD-O code, site of tumor and gender, Iraq, 2021:

Table No.; (8) Number, percentage and the crude incidence rate/100,000 P of cancer by ICD-O code, site of tumor and gender, Iraq, 2021

ICD-O code/site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C00 / lip	8	0.02	0.02	13	0.04	0.03	21	0.06	0.05
C01 / Tongue, base	10	0.03	0.02	13	0.04	0.03	23	0.06	0.06
C02 / Tongue, other	46	0.13	0.11	51	0.14	0.12	97	0.27	0.24
C03 / Gum	1	0.00	0.00	3	0.01	0.01	4	0.01	0.01
C04 / Mouth - floor	5	0.01	0.01	10	0.03	0.02	15	0.04	0.04
C05 / Mouth - palate	11	0.03	0.03	4	0.01	0.01	15	0.04	0.04
C06 / Mouth - other	16	0.04	0.04	23	0.06	0.06	39	0.11	0.09
C07 / Parotid gland	39	0.11	0.09	37	0.10	0.09	76	0.21	0.18
C08 / Mouth glands	34	0.09	0.08	37	0.10	0.09	71	0.20	0.17
C09 / Tonsil	6	0.02	0.01	10	0.03	0.02	16	0.04	0.04
C10 / Oropharynx	8	0.02	0.02	17	0.05	0.04	25	0.07	0.06
C11 / Nasopharynx	87	0.24	0.21	148	0.41	0.36	235	0.66	0.57
C12 / Pyriform	0	0.00	0.00	4	0.01	0.01	4	0.01	0.01
C13 / Hypopharynx	14	0.04	0.03	7	0.02	0.02	21	0.06	0.05
C14 / Pharynx	13	0.04	0.03	11	0.03	0.03	24	0.07	0.06
C15 / Oesophagus	113	0.32	0.27	132	0.37	0.32	245	0.68	0.59
C16 / Stomach	558	1.56	1.35	624	1.74	1.51	1182	3.30	2.87
C17 / Small intestine	98	0.27	0.24	86	0.24	0.21	184	0.51	0.45
C18 / Colon	770	2.15	1.87	843	2.35	2.05	1613	4.50	3.92
C19 / Recto sigmoid Junction	34	0.09	0.08	38	0.11	0.09	72	0.20	0.17
C20 / Rectum	363	1.01	0.88	445	1.24	1.08	808	2.26	1.96
C21 / Anus & anal canal	22	0.06	0.05	18	0.05	0.04	40	0.11	0.10
C22 / Liver & bile ducts	314	0.88	0.76	425	1.19	1.03	739	2.06	1.79
C23 / Gallbladder	134	0.37	0.33	81	0.23	0.20	215	0.60	0.52
C24 / Biliary tract , other	70	0.20	0.17	96	0.27	0.23	166	0.46	0.40
C25 / Pancreas	447	1.25	1.09	581	1.62	1.41	1028	2.87	2.50
C26 / Other digestive organs	20	0.06	0.05	23	0.06	0.06	43	0.12	0.10
C30 / Nasal cavity	21	0.06	0.05	16	0.04	0.04	37	0.10	0.09
C31 / Accessory sinus	6	0.02	0.01	17	0.05	0.04	23	0.06	0.06
C32 / Larynx	87	0.24	0.21	345	0.96	0.84	432	1.21	1.05
C33 / Trachea	2	0.01	0.00	5	0.01	0.01	7	0.02	0.02
C34 / Bronchus & lung	850	2.37	2.06	1952	5.45	4.74	2802	7.82	6.80
C37 / Thymus	7	0.02	0.02	20	0.06	0.05	27	0.08	0.07
C38 / Heart, Mediastinum, pleura	29	0.08	0.07	42	0.12	0.10	71	0.20	0.17
C39 / Other respiratory & thoracic	2	0.01	0.00	4	0.01	0.01	6	0.02	0.01
C40 / Bone & cartilage, limbs	106	0.30	0.26	120	0.34	0.29	226	0.63	0.55
C41 / Bones & cartilage, other	131	0.37	0.32	144	0.40	0.35	275	0.77	0.67

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C42 / Reticulo endothelial & Hemato poietic System	Chronic Myelo proliferative disorders	104	0.29	0.25	174	0.49	0.42	278	0.78	0.67
	Immuno proliferative diseases	5	0.01	0.01	5	0.01	0.01	10	0.03	0.02
	Leukemia	759	2.12	1.84	973	2.72	2.36	1732	4.84	4.20
	mast cell tumor	1	0.00	0.00	0	0.00	0.00	1	0.00	0.00
	Myelo dysplastic syndromes	28	0.08	0.07	44	0.12	0.11	72	0.20	0.17
	Plasma cell tumor	124	0.35	0.30	198	0.55	0.48	322	0.90	0.78
C44 / Skin, other		552	1.54	1.34	669	1.87	1.62	1221	3.41	2.96
C47 / Nerves system		17	0.05	0.04	25	0.07	0.06	42	0.12	0.10
C48 / Peritoneum		31	0.09	0.08	26	0.07	0.06	57	0.16	0.14
C49 / Soft tissues		237	0.66	0.58	227	0.63	0.55	464	1.30	1.13
C50 / Breast		7106	19.84	17.25	140	0.39	0.34	7246	20.23	17.59
C51 / Vulva		32	0.09	0.16	0	0.00	0.00	32	0.09	0.16
C52 / Vagina		16	0.04	0.08	0	0.00	0.00	16	0.04	0.08
C53 / Cervix uteri		263	0.73	1.29	0	0.00	0.00	263	0.73	1.29
C54 / Corpus uteri		447	1.25	2.19	0	0.00	0.00	447	1.25	2.19
C55 / Uterus unspecified		648	1.81	3.18	0	0.00	0.00	648	1.81	3.18
C56 / Ovary		801	2.24	3.93	0	0.00	0.00	801	2.24	3.93
C57 / Female genital - other		12	0.03	0.06	0	0.00	0.00	12	0.03	0.06
C58 / Placenta		62	0.17	0.30	0	0.00	0.00	62	0.17	0.30
C60 / Penis		0	0.00	0.00	6	0.02	0.03	6	0.02	0.03
C61 / Prostate		0	0.00	0.00	1313	3.67	6.31	1313	3.67	6.31
C62 / Testis		0	0.00	0.00	239	0.67	1.15	239	0.67	1.15
C63 / Male genital - other		0	0.00	0.00	3	0.01	0.01	3	0.01	0.01
C64 / Kidney		357	1.00	0.87	587	1.64	1.43	944	2.64	2.29
C65 / Pelvis		21	0.06	0.05	29	0.08	0.07	50	0.14	0.12
C66 / Ureter		7	0.02	0.02	10	0.03	0.02	17	0.05	0.04
C67 / Urinary bladder		409	1.14	0.99	1360	3.80	3.30	1769	4.94	4.29
C68 / Urinary organs, other		4	0.01	0.01	10	0.03	0.02	14	0.04	0.03
C69 / Eye & Adnexa		36	0.10	0.09	42	0.12	0.10	78	0.22	0.19
C70 / Meninges		99	0.28	0.24	43	0.12	0.10	142	0.40	0.34
C71 / Brain		730	2.04	1.77	888	2.48	2.16	1618	4.52	3.93
C72 / Nervous system, other		23	0.06	0.06	32	0.09	0.08	55	0.15	0.13
C73 / Thyroid gland		1409	3.93	3.42	354	0.99	0.86	1763	4.92	4.28
C74 / Adrenal gland		29	0.08	0.07	53	0.15	0.13	82	0.23	0.20
C75 / Endocrine gland, other		37	0.10	0.09	42	0.12	0.10	79	0.22	0.19
C76 / Unspecified site		52	0.15	0.13	45	0.13	0.11	97	0.27	0.24
C77 / Lymph node	Hodgkin Lymphoma	325	0.91	0.79	401	1.12	0.97	726	2.03	1.76

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C77 / Lymph node	Non- Hodgkin Lymphoma	634	1.77	1.54	799	2.23	1.94	1433	4.00	3.48
C80 /	Unknown primary site	391	1.09	0.95	343	0.96	0.83	734	2.05	1.78
Total		20290	56.65%	49.26	15525	43.35%	37.69	35815	100.00	86.95

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. Number, percentage of cancers by ICD-O code/site of tumor, age group and gender, Iraq, 2021:

Table No.; (9 & 10) shows that the highest number and percentage in male was recorded among the age group 65 - < 70 years and the lowest among the age group 10 - < 15 years. While in female the highest number and percentage was recorded among the age group 50 - < 55 years and the lowest among the age group 5 - < 10 years

Table No.; (9) Number and percentage of cancer in males by the ICD-O code/site of tumor and age group, Iraq, 2021

ICD-O code/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 +	Total
C00 / Lip	0	0	0	0	0	2	0	0	0	2	0	1	1	2	1	2	2	13
C01 / Tongue, base	0	0	0	0	0	0	0	1	0	0	1	3	3	1	1	2	1	13
C02 / Tongue, other	1	0	0	0	0	1	2	4	5	9	7	5	7	2	5	2	1	51
C03 / Gum	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	3
C04 / Mouth - floor	0	0	0	0	0	1	1	0	0	2	2	1	0	0	2	1	0	10
C05 / Mouth - palate	0	0	0	0	0	0	0	0	1	2	0	0	0	1	0	0	0	4
C06 / Mouth - other	0	0	0	0	1	1	1	1	0	0	4	3	2	3	5	1	1	23
C07 / Parotid gland	0	0	0	1	1	1	2	2	2	5	4	3	6	2	4	1	3	37
C08 / Mouth glands	0	0	0	0	0	0	3	2	5	2	6	4	3	4	3	0	5	37
C09 / Tonsil	0	0	2	0	0	0	0	0	1	0	0	1	1	3	0	1	1	10
C10 / Oropharynx	0	0	0	0	0	0	0	1	3	1	3	0	2	3	2	1	1	17
C11 / Nasopharynx	0	0	1	9	6	7	9	12	12	22	17	14	9	13	8	1	8	148
C12 / Pyriform	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	4
C13 / Hypopharynx	0	0	0	0	1	0	1	0	0	0	0	0	1	1	1	2	0	7
C14 / Pharynx	0	0	0	1	0	0	1	0	0	0	0	1	1	4	0	1	2	11
C15 / Oesophagus	0	0	0	0	2	2	6	6	4	14	10	11	16	17	18	12	14	132
C16 / Stomach	0	0	0	0	9	8	24	25	39	52	71	72	68	79	83	43	51	624

ICD-O code/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 +	Total
C17 / Small intestine	0	0	0	0	0	0	4	3	7	8	12	10	11	12	8	6	5	86
C18 / Colon	0	0	0	7	9	20	27	39	58	76	107	96	82	127	82	61	52	843
C19 / Recto sigmoid Junction	0	0	0	0	1	1	0	3	1	2	5	6	7	4	6	1	1	38
C20 / Rectum	0	0	0	0	5	8	14	20	26	53	60	54	57	54	50	23	21	445
C21 / Anus & anal canal	0	0	0	0	0	1	0	1	2	0	1	1	2	5	3	0	2	18
C22 / Liver & bile ducts	15	2	3	0	3	2	3	11	12	12	43	50	62	71	66	37	33	425
C23 / Gallbladder	0	0	0	0	0	0	2	3	7	3	8	4	12	17	11	6	8	81
C24 / Biliary tract , other	0	0	0	0	0	0	0	1	5	5	14	14	10	11	13	13	10	96
C25 / Pancreas	0	0	2	0	0	1	6	13	28	36	55	92	74	103	90	39	42	581
C26 / Other digestive organs	0	0	0	0	1	0	0	0	2	2	1	4	2	3	1	4	3	23
C30 / Nasal cavity	2	0	0	0	1	0	1	0	0	0	2	2	3	3	1	1	0	16
C31 / Accessory sinus	2	0	0	0	0	1	0	1	3	0	0	0	4	1	4	1	0	17
C32 / Larynx	1	1	0	0	3	1	1	4	11	17	44	40	50	68	48	27	29	345
C33 / Trachea	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1	0	0	5
C34 / Bronchus & lung	0	0	2	0	6	5	14	26	34	70	146	214	250	399	356	243	187	1952
C37 / Thymus	0	0	0	0	0	1	1	1	2	2	3	1	2	2	1	2	2	20
C38 / Heart, Mediastinum, pleura	2	0	3	1	1	1	2	1	4	2	6	4	4	8	0	2	1	42
C39 / Other respiratory & thoracic	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	1	4
C40 / Bone & cartilage, limbs	3	4	16	29	7	4	5	8	9	2	1	7	3	9	9	2	2	120
C41 / Bones & cartilage, other	5	9	15	24	13	7	6	6	11	4	11	8	6	7	4	3	5	144

ICD-O code/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 +	Total
C42 / Reticulo endothelial & Hemato poietic System	Chronic Myelo proliferative disorders	4	1	0	11	11	18	13	22	8	13	13	11	6	18	9	11	5	174
	Immuno proliferative diseases	0	0	0	0	0	0	0	1	0	2	1	0	0	1	0	0	0	5
	Leukemia	143	104	83	61	48	40	38	40	34	43	67	51	48	69	43	29	32	973
	Myelo dysplastic syndromes	0	1	0	3	1	1	3	1	1	4	3	1	3	8	8	3	3	44
	Plasma cell tumor	0	1	1	1	0	0	2	0	9	17	41	18	20	42	20	18	8	198
C44 / Skin, other		4	5	3	7	4	20	18	15	37	47	67	68	64	94	88	50	78	669
C47 / Nerves system		15	3	1	1	0	0	3	1	0	1	0	0	0	0	0	0	0	25
C48 / Peritoneum		2	0	0	0	0	1	3	1	0	2	2	4	4	3	1	2	1	26
C49 / soft tissues		11	8	8	18	20	10	10	19	19	18	21	19	7	19	6	9	5	227
C50 / Breast		0	0	0	0	0	1	2	10	18	16	16	13	16	12	18	7	11	140
C60 / Penis		0	0	0	0	0	0	0	1	1	2	1	0	1	0	0	0	0	6
C61 / Prostate		0	0	0	0	1	1	0	1	5	10	44	86	130	278	297	241	219	1313
C62 / Testis		10	3	1	14	25	44	37	35	17	16	15	5	2	6	5	0	4	239
C63 / Male genital - other		0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	3
C64 / Kidney		39	14	2	3	3	10	22	25	45	59	80	65	67	70	41	26	16	587
C65 / Pelvis		0	0	0	0	0	0	1	1	2	4	3	7	2	4	5	0	0	29
C66 / Ureter		0	0	0	0	0	0	0	0	0	0	2	0	3	1	2	0	2	10
C67 / Urinary bladder		1	1	1	2	4	10	13	33	44	66	119	135	157	224	230	147	173	1360
C68 / Urinary organs, other		0	0	0	0	0	0	0	0	0	0	0	1	0	3	4	0	2	10
C69 / Eye & Adnexa		29	2	0	0	0	0	1	1	0	1	1	2	2	0	1	1	1	42

ICD-O code/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 +	Total
C70 / Meninges	1	1	1	2	1	2	3	5	1	1	4	2	3	7	6	3	0	43
C71 / Brain	42	65	57	44	26	38	59	53	58	84	90	71	45	61	51	24	20	888
C72 / Nervous system, other	3	1	0	8	1	1	1	1	5	2	3	2	1	0	2	1	0	32
C73 / Thyroid gland	1	0	2	3	15	34	34	63	36	42	47	20	16	13	14	9	5	354
C74 / Adrenal gland	22	7	0	0	2	0	5	1	0	3	2	4	3	0	3	1	0	53
C75 / Endocrine gland, other	0	1	5	2	3	2	3	2	6	4	5	5	0	3	1	0	0	42
C76 / Unspecified site	8	4	2	1	3	1	0	1	3	4	3	1	4	3	2	4	1	45
C77 / Lymph node																		
Hodgkin Lymphoma	16	47	35	42	46	49	37	20	17	17	27	9	13	11	6	7	2	401
Non-Hodgkin Lymphoma	28	47	39	35	26	29	26	49	46	62	77	78	45	75	64	44	29	799
C80 / Unknown primary site	7	4	3	5	5	4	9	15	13	24	35	39	38	53	42	18	29	343
Total	417	336	288	337	315	392	479	613	721	971	1435	1447	1461	2119	1856	1197	1141	15525
Percentage	2.69	2.16	1.86	2.17	2.03	2.52	3.09	3.95	4.64	6.25	9.24	9.32	9.41	13.65	11.95	7.71	7.35	100.00%

Table No.; (10) Number and percentage of cancer in females by the ICD-O code/site of tumor and age group, Iraq, 2021

ICD-O code/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+	Total
C00 / lip	0	0	0	0	0	0	0	0	0	3	1	0	0	0	2	1	1	8
C01 / Tongue, base	0	0	0	0	0	0	0	0	1	1	1	0	2	2	0	0	3	10
C02 / Tongue, other	0	0	0	0	0	1	5	3	3	3	6	5	2	7	5	4	2	46
C03 / Gum	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
C04 / Mouth - floor	0	0	0	0	1	0	1	0	0	0	0	2	0	0	1	0	0	5
C05 / Mouth - palate	1	0	0	1	1	0	1	0	0	2	2	0	0	1	0	1	1	11
C06 / Mouth - other	0	0	0	1	0	0	0	0	1	2	1	2	2	1	4	1	1	16
C07 / Parotid gland	1	0	0	1	6	0	1	3	3	4	6	5	2	4	1	0	2	39
C08 / Mouth glands	0	1	1	0	0	1	2	0	3	1	6	4	3	3	4	4	1	34
C09 / Tonsil	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	0	1	6
C10 / Oropharynx	0	0	0	0	1	0	0	0	0	0	2	3	0	2	0	0	0	8
C11 / Nasopharynx	1	1	6	6	3	4	4	4	9	12	6	10	6	9	2	0	4	87
C13 / Hypopharynx	0	0	0	0	0	1	1	0	1	2	3	0	2	3	1	0	0	14
C14 / Pharynx	0	0	0	2	0	0	0	3	1	0	1	1	2	2	1	0	0	13
C15 / Oesophagus	0	0	0	0	0	3	4	11	7	13	12	4	9	15	12	9	14	113
C16 / Stomach	0	0	0	3	3	15	13	24	49	69	53	58	57	64	78	38	34	558
C17 / Small intestine	1	1	0	1	1	2	4	7	1	10	5	16	11	11	9	6	12	98
C18 / Colon	0	0	0	2	9	11	33	32	60	52	101	84	89	111	79	51	56	770
C19 / Recto sigmoid Junction	0	0	0	0	1	1	3	0	2	3	2	3	1	5	5	5	3	34
C20 / Rectum	0	0	0	1	4	6	17	21	36	31	48	49	33	51	33	17	16	363
C21 / Anus & anal canal	0	0	0	0	0	1	0	4	0	3	4	1	3	1	4	0	1	22
C22 / Liver & bile ducts	7	2	4	3	1	5	7	8	11	12	21	27	27	54	49	27	49	314
C23 / Gallbladder	0	0	0	0	0	1	2	1	7	8	12	11	26	21	20	10	15	134
C24 / Biliary tract , other	0	0	0	1	1	0	0	2	3	6	5	9	9	11	9	10	4	70

ICD-O code/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+	Total
C25 / Pancreas		0	0	1	6	4	5	3	9	14	28	53	50	48	97	63	35	31	447
C26 / Other digestive organs		0	0	0	1	0	2	1	0	3	1	1	4	0	2	3	1	1	20
C30 / Nasal cavity		0	0	0	0	1	1	2	0	2	3	3	1	2	2	1	1	2	21
C31 / Accessory sinus		0	0	0	0	0	0	0	0	2	1	0	0	2	0	0	0	1	6
C32 / Larynx		0	0	0	0	0	4	0	0	5	9	9	14	5	17	10	6	8	87
C33 / Trachea		0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2
C34 / Bronchus & lung		0	1	1	1	5	8	13	15	15	52	72	76	105	165	142	75	104	850
C37 / Thymus		0	0	1	0	0	0	1	1	0	1	0	0	0	0	1	1	1	7
C38 / Heart, Mediastinum, pleura		0	0	1	0	1	1	0	0	2	0	6	4	6	3	3	2	0	29
C39 / Other respiratory & thoracic		0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2
C40 / Bone & cartilage, limbs		2	3	26	9	6	5	11	8	4	6	1	6	4	4	5	3	3	106
C41 / Bones & cartilage, other		3	8	18	17	7	7	9	7	7	7	6	8	6	6	6	5	4	131
C42 / Reticulo endothelial & Hematopoietic System	Chronic Myelo proliferative disorders	2	2	0	1	6	4	13	11	9	8	8	8	5	6	9	6	6	104
	Immuno proliferative diseases	0	0	0	0	0	0	1	0	1	1	1	1	0	0	0	0	0	5
	Leukemia	120	64	54	43	24	28	31	29	28	42	50	38	48	58	48	23	31	759
	Mast cell tumor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
	Myelodys plastic syndromes	1	1	1	2	3	0	0	0	0	0	2	0	2	6	3	3	4	28
Plasma cell tumor		0	0	0	1	0	1	4	5	8	2	18	21	14	25	13	5	7	124

ICD-O code/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+	Total
C44 / Skin, other	3	4	5	3	8	11	17	22	26	39	40	48	64	69	76	45	72	552
C47 /Nerves system	8	3	2	1	0	1	0	0	1	0	0	0	0	1	0	0	0	17
C48 / Peritoneum	6	0	0	1	0	2	1	0	2	2	2	3	5	4	1	2	0	31
C49 / soft tissues	9	7	9	11	9	16	17	18	20	27	9	32	18	19	10	4	2	237
C50 / Breast	0	1	0	3	29	122	283	562	941	1106	1044	934	746	591	389	180	175	7106
C51 / Vulva	0	0	0	0	0	0	1	1	0	0	5	2	5	8	5	2	3	32
C52 / Vagina	0	1	0	0	0	2	1	1	1	0	0	2	1	4	2	1	0	16
C53 / Cervix uteri	0	0	0	0	2	2	8	22	22	36	47	38	30	29	13	5	9	263
C54 / Corpus uteri	0	0	0	0	3	5	6	11	22	52	64	74	79	69	38	12	12	447
C55 / Uterus unspecified	0	0	0	1	3	5	16	20	29	57	73	122	110	94	54	34	30	648
C56 / Ovary	5	6	9	28	39	39	51	48	61	88	87	84	77	98	51	10	20	801
C57 / Female genital - other	0	1	0	0	0	0	0	1	0	2	1	1	1	1	3	1	0	12
C58 / Placenta	0	0	0	5	7	13	14	5	10	4	1	0	2	0	1	0	0	62
C64 / Kidney	39	14	3	3	7	4	12	24	21	34	29	44	37	40	21	14	11	357
C65 / Pelvis	0	0	0	1	1	1	0	1	3	1	2	2	2	4	2	1	0	21
C66 / Ureter	0	0	0	0	0	0	0	0	0	1	0	0	0	1	4	1	0	7
C67 / Urinary bladder	0	1	0	0	4	5	4	4	9	17	37	22	47	70	79	47	63	409
C68 / Urinary organs, other	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	4
C69 / Eye & Adnexa	20	3	0	0	0	0	2	3	1	0	2	1	1	1	1	1	0	36
C70 / Meninges	0	1	0	1	3	3	9	9	11	16	14	11	5	9	3	2	2	99
C71 / Brain	32	44	41	20	32	32	39	51	67	66	62	53	53	55	44	15	24	730
C72 / Nervous system, other	3	2	1	1	2	0	5	2	1	0	2	1	0	3	0	0	0	23
C73 / Thyroid gland	0	3	10	29	80	161	210	202	184	166	118	78	56	39	37	15	21	1409
C74 / Adrenal gland	12	3	1	1	0	3	1	1	0	0	0	4	0	0	2	1	0	29

ICD-O code/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+	Total
C75 / Endocrine gland, other	1	2	1	2	1	4	5	3	3	5	4	2	2	1	0	1	0	37
C76 / Unspecified site	11	2	3	1	3	0	1	1	6	1	3	2	7	2	7	0	2	52
C77 / Lymph node																		
Hodgkin Lymphoma	4	19	22	45	47	41	20	20	24	14	16	12	14	12	9	4	2	325
Non-Hodgkin Lymphoma	17	12	11	21	21	24	33	32	39	43	67	65	54	81	58	28	28	634
C80 / Unknown primary site	4	0	3	1	7	3	14	8	23	27	43	51	62	50	41	29	25	391
Total	313	213	235	282	397	618	958	1280	1825	2203	2302	2213	2014	2126	1579	807	925	20290
Percentage	1.54	1.05	1.16	1.39	1.96	3.05	4.72	6.31	8.99	10.86	11.35	10.91	9.93	10.48	7.78	3.98	4.56	100.00

3.2.6. Number and percentage of cancer by the ICD-O code, site of tumor, governorates and gender, Iraq, 2021:

Table No.; (11 & 12) shows that the highest number and percentage was recorded in Baghdad and the lowest in Al Muthana in both genders.

Table No.; (11) Number and percentage of cancers in male by ICD-O code, site of tumor and governorates, Iraq, 2021

ICD-O code/ site of tumor	Al- Anbar	Al- Basrah	Al- Muthana	Al- Najaf	Al- Qadysea	Al- Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karballa	Kirkuk	Misan	Nineveh	Salah Al- Deen	ThiQar	Wasit	Un	Total
C00 / Lip	1	1	0	0	0	1	0	2	1	1	3	0	0	0	1	0	2	0	0	13
C01 / Tongue, base	2	0	1	0	0	0	1	5	0	1	0	1	0	0	0	0	1	1	0	13
C02 / Tongue, other	6	3	2	0	0	2	0	18	0	1	4	3	1	3	2	5	1	0	0	51
C03 / Gum	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	3
C04 / Mouth - floor	1	0	0	0	0	1	1	4	0	0	0	1	1	0	0	0	1	0	0	10
C05 / Mouth - palate	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	0	0	4
C06 / Mouth - other	1	2	1	0	1	2	1	3	0	0	4	2	2	0	0	2	0	1	1	23
C07 / Parotid gland	0	1	1	0	0	3	1	12	2	1	2	4	0	0	4	2	2	1	1	37
C08 / Mouth glands	1	4	1	0	0	2	4	8	1	2	3	3	0	1	6	1	0	0	0	37
C09 / Tonsil	0	0	0	0	1	0	5	0	0	1	1	0	1	0	0	0	0	1	0	10
C10 / Oropharynx	4	1	1	0	0	1	0	7	0	0	0	1	0	1	0	0	1	0	0	17
C11 / Nasopharynx	3	8	4	7	11	12	7	33	2	6	6	4	2	9	14	7	8	5	0	148
C12 / Pyriform	0	0	0	1	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	4
C13 / Hypopharynx	0	1	0	0	0	1	0	1	1	1	1	0	0	0	0	0	1	0	0	7
C14 / Pharynx	0	1	0	0	1	0	0	4	0	0	0	0	0	0	1	0	2	2	0	11
C15 / Oesophagus	2	7	2	1	2	25	5	30	4	6	10	7	4	3	9	3	6	6	0	132
C16 / Stomach	33	47	8	18	25	63	33	128	20	26	28	29	19	22	56	18	27	23	1	624
C17 / Small intestine	3	6	1	2	0	3	0	16	3	3	7	0	1	3	12	3	4	19	0	86
C18 / Colon	31	57	6	32	21	63	40	202	23	42	65	31	27	19	75	32	40	31	6	843
C19 / Recto sigmoid Junction	5	3	0	2	0	0	1	5	8	0	6	0	0	0	0	2	4	2	0	38

ICD-O code/ site of tumor	Al- Anbar	Al- Basrah	Al- Muthana	Al- Najaf	Al- Qadysea	Al- Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karballa	Kirkuk	Misan	Nineveh	Salah Al- Deen	ThiQar	Wasit	Un	Total
C20 / Rectum	18	35	8	15	15	35	27	127	17	18	35	10	15	9	21	8	16	15	1	445
C21 / Anus & anal canal	0	0	0	1	1	1	2	8	0	0	1	0	0	0	2	1	1	0	0	18
C22 / Liver & bile ducts	15	19	12	12	25	29	18	130	27	9	10	19	10	15	29	5	18	23	0	425
C23 / Gallbladder	2	9	1	2	1	7	2	24	1	4	3	3	5	0	5	5	2	5	0	81
C24 / Biliary tract , other	3	13	0	1	16	4	6	13	4	1	9	1	4	1	5	7	7	1	0	96
C25 / Pancreas	20	51	12	30	14	45	25	142	20	17	28	30	18	14	47	17	30	21	0	581
C26 / Other digestive organs	2	1	0	3	0	0	0	8	3	0	4	0	0	0	1	0	0	1	0	23
C30 / Nasal cavity	0	0	0	0	0	2	2	5	0	3	1	0	1	0	0	0	1	1	0	16
C31 / Accessory sinus	1	0	1	0	0	1	1	6	0	2	1	1	0	0	0	2	1	0	0	17
C32 / Larynx	10	26	5	15	11	25	15	92	7	16	28	11	7	12	23	14	22	6	0	345
C33 / Trachea	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4	0	0	0	5
C34 / Bronchus & lung	42	125	42	87	58	150	111	400	69	110	146	70	55	67	171	61	104	82	2	1952
C37 / Thymus	2	4	1	2	1	1	1	3	0	0	1	1	0	0	0	0	3	0	0	20
C38 / Heart, Mediastinum, pleura	3	5	1	1	1	1	4	13	0	0	4	2	1	0	2	0	2	2	0	42
C39 / Other respiratory & thoracic	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	4
C40 / Bone & cartilage, limbs	4	10	2	1	3	4	13	32	8	3	4	2	4	4	6	6	12	2	0	120
C41 / Bones & cartilage, other	10	7	3	10	5	9	10	25	7	5	3	8	5	4	9	5	9	10	0	144
C42 / Reticulo endothelial & Hemato poietic System	Chronic Myelo proliferative disorders	1	17	2	1	0	134	0	0	2	1	9	1	2	1	2	1	0	0	174
	Immuno prolifrative diseases	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	1	1	0	5

ICD-O code/ site of tumor		Al- Anbar	Al-Basrah	Al-Muthana	Al-Najaf	Al- Qadysea	Al-Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karballa	Kirkuk	Misan	Nineveh	Salah Al- Deen	ThiQar	Wasit	Un	Total
C42 / Leukemia		32	84	29	54	33	48	48	170	28	41	68	35	37	34	83	32	80	36	1	973
Reticulo endothelial & Hemato poietic System	Myelo dysplastic syndromes	2	24	0	0	1	7	0	2	2	1	2	0	1	1	0	0	1	0	0	44
	Plasma cell tumor	15	23	4	16	6	35	6	16	3	8	19	14	4	0	12	4	10	3	0	198
C44 / Skin, other		9	52	7	30	20	53	14	133	44	46	108	21	22	8	23	17	20	26	16	669
C47 / Nerves system		3	1	1	0	1	0	5	6	2	0	0	1	0	1	1	1	1	1	0	25
C48 / Peritoneum		2	1	2	1	2	2	0	7	0	0	1	1	1	2	0	0	1	3	0	26
C49 / soft tissues		6	18	4	10	9	12	12	57	11	5	20	5	9	4	15	14	10	5	1	227
C50 / Breast		2	9	2	4	7	4	8	29	3	5	12	11	9	1	7	6	11	8	2	140
C60 / Penis		0	2	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	6
C61 / Prostate		60	91	18	66	41	111	75	312	42	28	126	51	43	26	89	37	46	40	11	1313
C62 / Testis		12	14	3	17	6	27	14	44	9	8	16	9	6	3	20	5	12	13	1	239
C63 / Male genital - other		0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	3
C64 / Kidney		11	47	15	25	14	38	32	137	15	17	49	22	16	8	45	32	32	30	2	587
C65 / Pelvis		1	0	0	1	0	17	0	0	5	1	1	0	1	1	0	0	0	1	0	29
C66 / Ureter		0	1	0	0	0	0	1	0	1	0	0	3	1	1	0	0	2	0	0	10
C67 / Urinary bladder		46	140	30	59	58	84	67	283	38	33	79	62	37	40	91	26	111	62	14	1360
C68 / Urinary organs, other		0	0	0	0	0	1	0	2	2	0	0	0	0	0	3	1	1	0	0	10
C69 / Eye & Adnexa		0	5	0	1	1	7	2	7	4	0	1	2	3	0	3	1	3	2	0	42
C70 / Meninges		0	4	1	3	4	3	2	14	1	0	2	4	0	0	1	1	1	2	0	43
C71 / Brain		29	68	8	42	35	64	40	253	43	34	25	26	17	21	68	27	61	26	1	888
C72 / Nervous system, other		2	4	0	1	2	3	0	8	2	0	1	0	1	1	3	1	2	1	0	32
C73 / Thyroid gland		29	22	10	23	12	22	23	86	10	8	12	12	5	8	17	19	16	20	0	354
C74 / Adrenal gland		0	3	0	1	4	5	2	9	2	0	2	4	2	0	12	1	4	2	0	53

ICD-O code/ site of tumor	Al- Anbar	Al-Basrah	Al-Muthana	Al-Najaf	Al- Qadysea	Al-Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karballa	Kirkuk	Misan	Nineveh	Salah Al- Deen	ThiQar	Wasit	Un	Total
C75 / Endocrine gland, other	2	11	0	1	1	4	0	11	1	0	4	2	2	0	2	1	0	0	0	42
C76 / Unspecified site	2	4	0	1	10	1	3	18	1	2	2	0	0	0	0	0	0	1	0	45
C77 / Lymph node																				
Hodgkin Lymphoma	20	40	7	16	9	27	28	74	14	33	28	23	5	3	38	7	19	10	0	401
Non- Hodgkin Lymphoma	35	82	17	40	39	62	28	184	18	22	64	30	27	19	47	19	30	31	5	799
C80 / Unknown primary site	7	33	0	1	2	63	12	102	7	8	28	8	10	5	27	6	7	16	1	343
Total	556	1249	276	658	530	1327	760	3477	540	580	1098	592	445	377	1111	469	812	601	67	15525
Percentage	3.58	8.05	1.78	4.24	3.41	8.55	4.90	22.40	3.48	3.74	7.07	3.81	2.87	2.43	7.16	3.02	5.23	3.87	0.43	100%

Table No.; (12) Number and percentage of cancers in female by ICD-O code, site of tumor and governorates, Iraq, 2021

ICD-O code/ site of tumor	Al- Anbar	Al- Basrah	Al- Muthana	Al- Najaf	Al- Qadysea	Al- Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah Al- Deen	ThiQar	Wasit	Un.	Total
C00 / lip	1	0	0	0	0	0	1	2	0	1	2	0	0	0	1	0	0	0	0	8
C01 / Tongue, base	1	0	1	0	0	1	3	1	1	0	0	0	0	1	0	0	0	1	0	10
C02 / Tongue, other	2	7	2	2	0	1	0	12	0	1	5	3	3	1	2	1	3	1	0	46
C03 / Gum	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
C04 / Mouth - floor	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	5
C05 / Mouth - palate	1	1	0	0	0	1	0	3	1	0	1	0	1	0	0	2	0	0	0	11
C06 / Mouth - other	1	4	0	1	0	2	0	1	0	0	1	0	2	0	0	3	1	0	0	16
C07 / Parotid gland	2	3	0	1	1	4	1	9	0	1	5	3	0	0	2	3	2	1	1	39
C08 / Mouth glands	1	3	1	0	0	1	1	12	1	2	2	3	1	0	1	2	3	0	0	34
C09 / Tonsil	0	2	0	0	0	0	2	0	0	1	0	0	0	0	0	1	0	0	0	6
C10 / Oropharynx	0	0	0	0	0	0	0	2	0	0	0	0	0	3	0	3	0	0	0	8
C11 / Nasopharynx	5	8	2	2	2	4	6	17	3	1	4	7	3	4	6	3	5	5	0	87
C13 / Hypopharynx	0	1	0	1	1	0	0	0	2	1	2	1	1	2	1	0	1	0	0	14
C14 / Pharynx	0	0	0	0	0	2	0	3	1	2	0	2	2	0	0	0	1	0	0	13
C15 / Oesophagus	4	7	2	4	4	11	5	16	7	6	11	7	4	2	7	4	5	7	0	113
C16 / Stomach	28	41	13	28	22	38	18	125	17	24	28	27	21	15	51	20	21	20	1	558
C17 / Small intestine	1	7	1	1	0	6	1	19	12	1	4	5	6	5	10	4	7	8	0	98
C18 / Colon	29	58	11	29	31	71	21	193	21	36	56	31	31	22	57	26	27	20	0	770
C19 / Recto sigmoid Junction	6	3	0	2	2	0	0	7	4	0	2	0	1	0	0	4	3	0	0	34
C20 / Rectum	18	24	6	6	11	30	19	83	13	21	21	14	23	5	29	9	18	12	1	363
C21 / Anus & anal canal	1	2	0	1	1	0	2	2	1	0	3	0	2	1	1	1	3	1	0	22
C22 / Liver & bile ducts	8	14	3	14	17	17	19	82	13	11	4	19	9	8	21	11	26	17	1	314
C23 / Gallbladder	4	17	5	2	4	17	8	33	2	5	6	3	8	3	4	2	2	7	2	134
C24 / Biliary tract , other	5	12	2	2	4	8	0	14	3	0	6	1	0	2	3	1	4	3	0	70

ICD-O code/ site of tumor	Al- Anbar	Al- Basrah	Al- Muthana	Al- Najaf	Al- Qadysea	Al- Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah Al- Deen	ThiQar	Wasit	Un.	Total
C25 / Pancreas	17	39	9	28	8	36	29	98	14	11	21	26	8	12	39	13	28	10	1	447
C26 / Other digestive organs	0	1	0	1	0	1	1	11	1	0	1	0	0	0	1	1	1	0	0	20
C30 / Nasal cavity	0	3	0	0	1	1	1	10	2	0	2	0	0	0	1	0	0	0	0	21
C31 / Accessory sinus	0	2	0	0	0	1	0	1	0	0	2	0	0	0	0	0	0	0	0	6
C32 / Larynx	0	6	2	6	11	5	4	11	6	1	3	3	6	3	6	7	6	1	0	87
C33 / Trachea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
C34 / Bronchus & lung	27	62	32	46	46	52	57	163	30	21	39	48	22	33	46	22	67	34	3	850
C37 / Thymus	1	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	2	0	7
C38 / Heart, Mediastinum, pleura	1	1	0	2	2	1	0	15	0	1	2	0	1	0	2	0	1	0	0	29
C39 / Other respiratory & thoracic	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	2
C40 / Bone & cartilage, limbs	2	5	3	4	2	1	9	22	5	2	4	5	4	1	5	7	15	10	0	106
C41 / Bones & cartilage, other	5	7	6	9	2	5	2	23	3	5	9	7	3	6	17	5	12	5	0	131
C42 / Reticulo endothelial & Hemato poietic System	Chronic Myelo proliferativ e disorders	2	10	0	0	0	77	1	1	2	0	2	0	4	3	0	2	0	0	104
	Immuno prolifrative diseases	0	0	0	1	0	2	0	1	0	0	0	0	1	0	0	0	0	0	5
	Leukemia	26	74	15	34	24	37	40	132	23	32	42	45	50	19	65	22	57	22	759
	Mast cell tumor	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
	Myelo dysplastic syndromes	0	16	0	0	0	9	0	0	0	1	0	0	1	0	0	1	0	0	28
	Plasma cell tumor	10	11	5	5	3	21	6	18	1	7	10	4	1	5	10	1	4	2	124

ICD-O code/ site of tumor	Al- Anbar	Al- Basrah	Al- Muthana	Al- Najaf	Al- Qadysea	Al- Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah Al- Deen	ThiQar	Wasit	Un.	Total
C44 / Skin, other	5	34	4	20	14	49	12	103	32	41	105	15	19	7	21	21	20	15	15	552
C47 /Nerves system	4	0	0	0	0	0	2	6	0	0	1	0	1	0	1	1	1	0	0	17
C48 / Peritoneum	0	1	3	1	0	6	1	7	2	0	6	0	2	0	1	0	1	0	0	31
C49 / soft tissues	6	26	6	10	7	22	19	55	5	3	14	7	10	6	14	8	11	7	1	237
C50 / Breast	261	514	101	293	184	426	332	2124	296	221	431	275	233	150	496	227	248	258	36	7106
C51 / Vulva	0	3	0	0	1	0	1	5	0	0	5	3	1	2	4	2	2	3	0	32
C52 / Vagina	0	1	0	0	0	2	0	4	1	1	0	0	2	1	1	2	1	0	0	16
C53 / Cervix uteri	8	46	2	11	3	15	13	79	10	11	14	12	3	2	8	5	13	7	1	263
C54 / Corpus uteri	25	8	2	24	5	75	5	180	19	8	49	5	4	4	10	7	5	7	5	447
C55 / Uterus unspecified	11	82	11	13	27	9	45	131	39	21	11	33	18	28	77	28	23	39	2	648
C56 / Ovary	22	79	11	38	21	53	40	199	32	27	37	32	23	13	62	26	52	31	3	801
C57 / Female genital - other	1	1	1	0	1	3	0	2	1	0	0	1	1	0	0	0	0	0	0	12
C58 / Placenta	2	7	0	0	0	14	0	13	2	3	7	3	0	0	4	1	3	3	0	62
C64 / Kidney	10	29	5	15	12	22	19	88	7	15	30	9	13	13	26	11	18	13	2	357
C65 / Pelvis	0	0	1	0	0	14	1	0	1	1	0	0	1	0	1	1	0	0	0	21
C66 / Ureter	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	2	0	2	0	7
C67 / Urinary bladder	12	43	11	19	20	20	29	90	10	4	13	20	7	14	18	11	40	25	3	409
C68 / Urinary organs, other	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	4
C69 / Eye & Adnexa	1	3	1	0	1	3	2	7	3	0	2	3	1	1	3	3	2	0	0	36
C70 / Meninges	4	3	2	2	4	2	3	49	5	0	2	5	1	4	5	4	1	3	0	99
C71 / Brain	25	55	11	33	27	42	30	180	37	23	28	22	9	19	75	32	42	33	7	730
C72 / Nervous system, other	2	4	0	0	1	3	0	4	2	1	1	0	0	0	0	1	3	0	1	23
C73 / Thyroid gland	104	70	19	61	67	83	56	398	50	51	70	45	16	20	77	79	82	57	4	1409
C74 / Adrenal gland	0	1	1	5	1	3	2	5	0	0	1	1	0	2	4	1	1	1	0	29
C75 / Endocrine gland, other	1	3	4	0	2	3	5	9	1	0	5	1	1	1	1	0	0	0	0	37

ICD-O code/ site of tumor	Al- Anbar	Al- Basrah	Al- Muthana	Al- Najaf	Al- Qadysea	Al- Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah Al- Deen	ThiQar	Wasit	Un.	Total
C76 / Unspecified site	3	1	0	1	4	3	2	28	2	2	1	0	0	1	1	1	0	2	0	52
C77 / Lymph node																				
Hodgkin Lymphoma	16	39	4	4	10	19	14	65	10	19	18	18	8	7	32	8	19	13	2	325
Non- Hodgkin Lymphoma	22	61	10	25	24	49	39	144	24	20	34	33	17	17	44	15	34	18	4	634
C80 / Unknown primary site	9	41	4	7	2	44	19	135	8	8	25	9	5	3	47	7	10	6	2	391
Total	764	1609	335	814	638	1448	948	5255	789	676	1210	816	614	472	1425	687	959	733	98	20290
Percentage	3.77	7.93	1.65	4.01	3.14	7.14	4.67	25.90	3.89	3.33	5.96	4.02	3.03	2.33	7.02	3.39	4.73	3.61	0.48	100.00

Results

Top Ten Cancers in Iraq **2021**

Iraq
Populations Number : 41190658
Cancer Cases Number :35815
Incidence Rate: 86.95/100,000 Iraq Populations



3.3. Top ten cancers in Iraq, 2021:

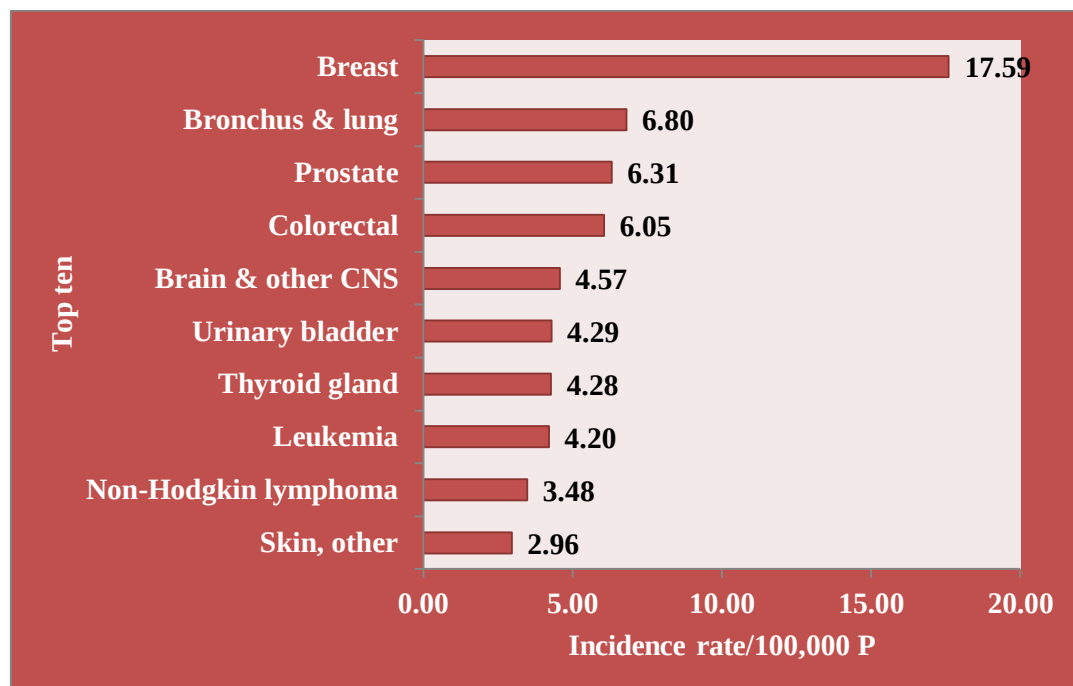
3.3.1. Number, percentage and the crude incidence rate/100,000 P of the top ten cancers, Iraq, 2021:

Table No.; (13), Figure No.; (9) shows that the highest number and percentage and crude incidence rate /100,000 P of the top ten cancers in Iraq was breast cancer and the lowest was skin, other cancer

Table No.; (13) Number and percentage of the top ten cancers, Iraq, 2021

Top ten	No.	%
1 Breast	7246	30.63
2 Bronchus & lung	2802	11.85
3 Colorectal	2493	10.54
4 Brain & other CNS	1882	7.96
5 Urinary bladder	1769	7.48
6 Thyroid gland	1763	7.45
7 Leukemia	1732	7.32
8 Non-Hodgkin lymphoma	1433	6.06
9 Prostate	1313	5.55
10 Skin, other	1221	5.16
Total top ten	23654	100.00%

Figure No.; (9) Crude incidence rate of the top ten cancer /100,000 populations, Iraq, 2021



The prostate incidence rate is calculated from the male populations.

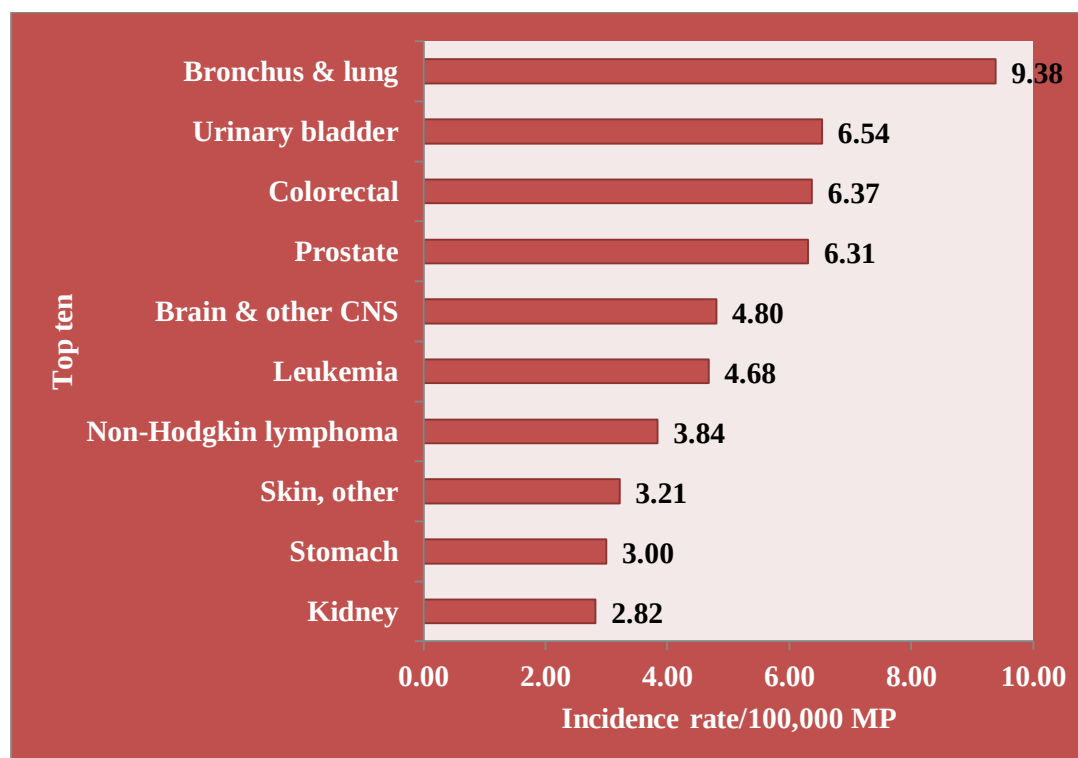
3.3.2. Number, percentage and the crude incidence rate/100,000 MP of the top ten cancers in males, Iraq, 2021:

Table No.; (14), Figure No.; (10) shows that the highest number and percentage and crude incidence rate/100,000 MP of the top ten cancer in males was bronchus & lung cancer and the lowest was kidney cancer.

Table No.; (14) Number and percentage of the top ten cancers in males, Iraq, 2021

Top ten	No.	%
1 Bronchus & lung	1952	18.41
2 Urinary bladder	1360	12.83
3 Colorectal	1326	12.51
4 Prostate	1313	12.38
5 Brain & other CNS	999	9.42
6 Leukemia	973	9.18
7 Non-Hodgkin lymphoma	799	7.54
8 Skin, other	669	6.31
9 Stomach	624	5.89
10 Kidney	587	5.54
Total top ten	10602	100.00%

Figure No.; (10) Crude incidence rate of the top ten cancers in males /100,000 male populations, Iraq, 2021



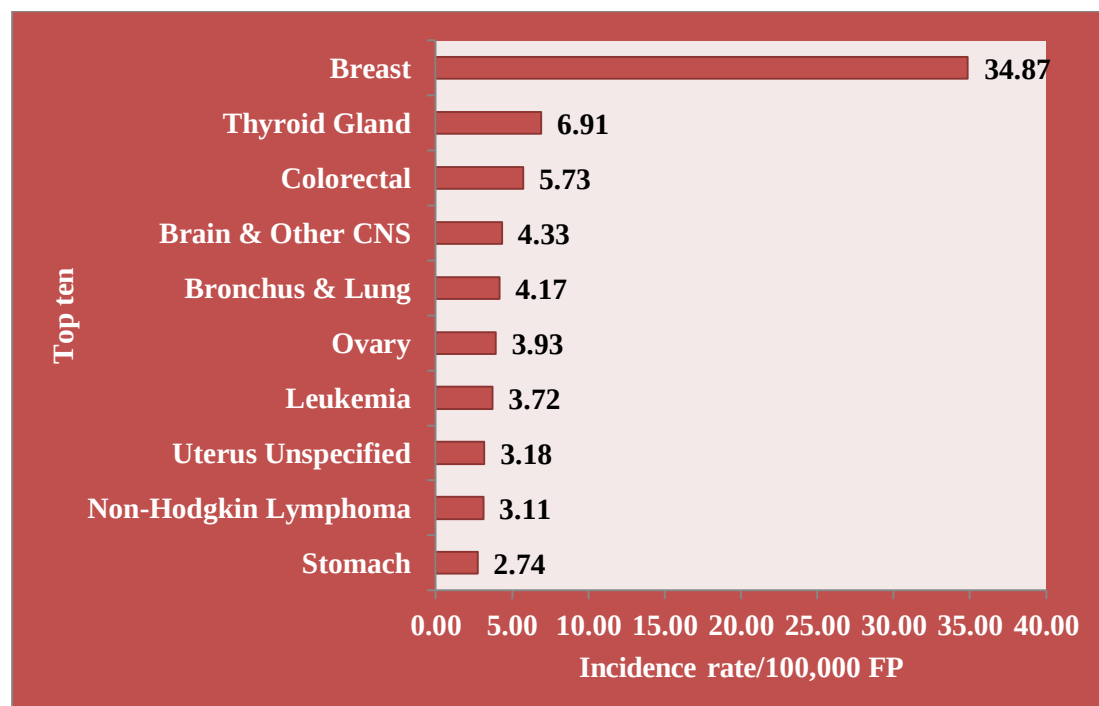
3.3.3. Number, percentage and the crude incidence rate/100,000 FP of the top ten cancers in females, Iraq, 2021:

Table No.; (15), Figure No.; (11) shows that the highest number and percentage and crude incidence rate/100,000 FP of the top ten cancer in females was breast cancer and the lowest was stomach cancer.

Table No.; (15) Number and percentage of the top ten cancers in females, Iraq, 2021

Top ten	No.	%
1 Breast	7106	47.96
2 Thyroid gland	1409	9.51
3 Colorectal	1167	7.88
4 Brain & other CNS	883	5.96
5 Bronchus & lung	850	5.74
6 Ovary	801	5.41
7 Leukemia	759	5.12
8 Uterus unspecified	648	4.37
9 Non-Hodgkin lymphoma	634	4.28
10 Stomach	558	3.77
Total top ten	14815	100.00%

Figure No.; (11) Crude incidence rate of the top ten cancers in females /100,000 female populations, Iraq, 2021



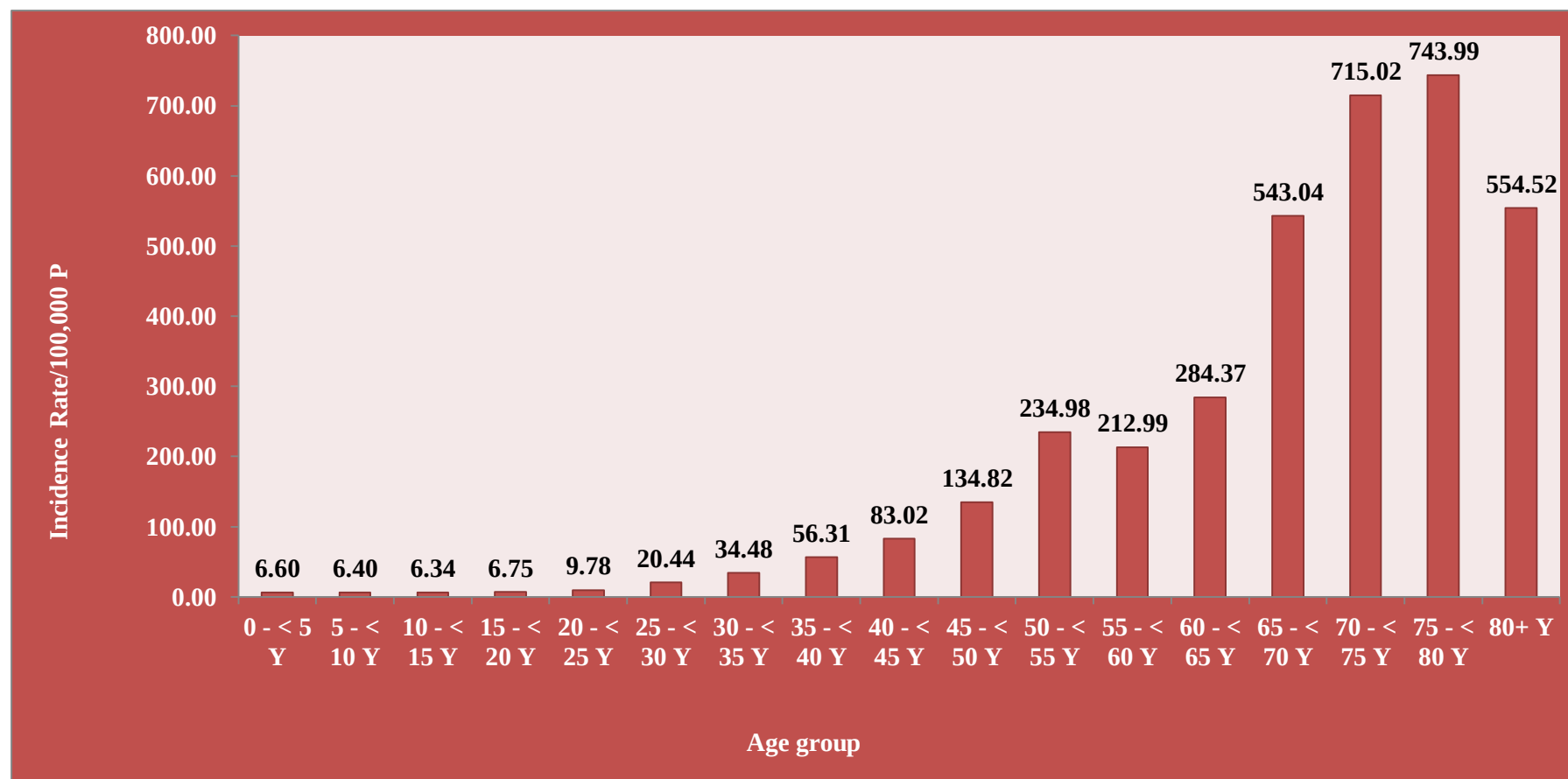
3.3.4. Number, percentage and the crude incidence rate/100,000 P of the top ten cancers by age group, Iraq, 2021:

Table No.; (16), Figure No.; (12) shows that the number, percentage and the crude incidence rate of the top ten cancers in Iraq by age group. It shows that the highest percentage was recorded among the age group 65 - < 70 years and the lowest among the age group 15 - < 20 years. While the highest crude incidence rate/100,000 P was recorded among the age group 75- < 80 years and the lowest among the age group 10 - < 15 years.

Table No.; (16) Number and percentage of the top ten cancers by age group, Iraq, 2021

Top ten	0 – <5	5 - <10	10 - <15	15 - <20	20 - <25	25 - <30	30 - <35	35 - <40	40 - <45	45 - <50	50 - <55	55 - <60	60 - <65	65 - <70	70 - <75	75 - <80	80 +	Total
Breast	0	1	0	3	29	123	285	572	959	1122	1060	947	762	603	407	187	186	7246
Bronchus & lung	0	1	3	1	11	13	27	41	49	122	218	290	355	564	498	318	291	2802
Colorectal	0	0	0	10	29	47	94	115	183	217	323	292	269	352	255	158	149	2493
Brain & other CNS	82	117	106	80	69	81	123	125	151	176	183	146	108	137	107	45	46	1882
Urinary bladder	1	2	1	2	8	15	17	37	53	83	156	157	204	294	309	194	236	1769
Thyroid gland	1	3	12	32	95	195	244	265	220	208	165	98	72	52	51	24	26	1763
Leukemia	263	168	137	104	72	68	69	69	62	85	117	89	96	127	91	52	63	1732
Non-Hodgkin lymphoma	45	59	50	56	47	53	59	81	85	105	144	143	99	156	122	72	57	1433
Prostate	0	0	0	0	1	1	0	1	5	10	44	86	130	278	297	241	219	1313
Skin, other	7	9	8	10	12	31	35	37	63	86	107	116	128	163	164	95	150	1221
Total	399	360	317	298	373	627	953	1343	1830	2214	2517	2364	2223	2726	2301	1386	1423	23654
Percentage	1.69	1.52	1.34	1.26	1.58	2.65	4.03	5.68	7.74	9.36	10.64	9.99	9.40	11.52	9.73	5.86	6.02	100.00

Figure No.; (12) Crude incidence rate of the top ten cancer /100, 000 populations by age group, Iraq, 2021



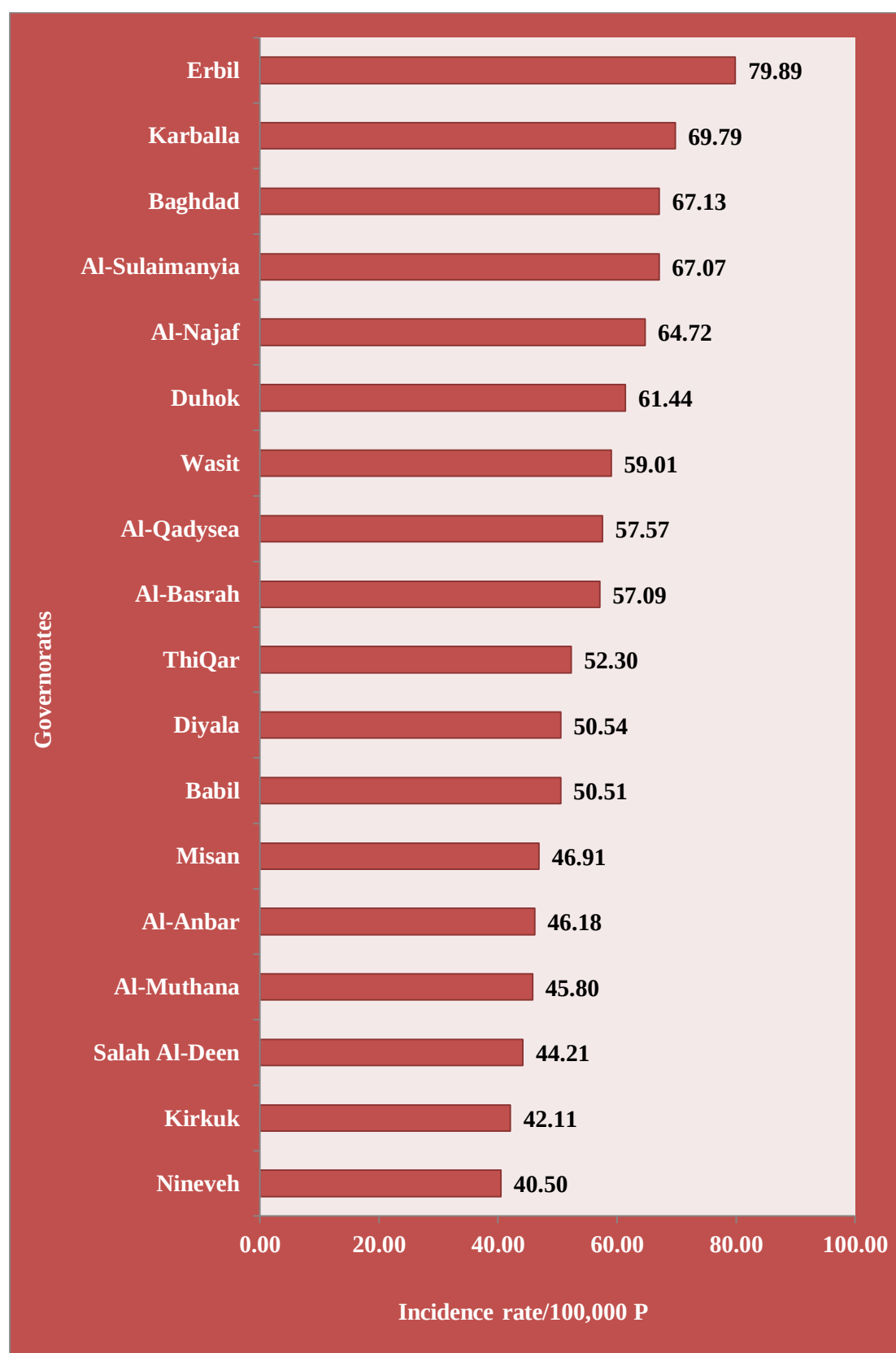
3.3.5. Number, percentage and the crude incidence rate/100,000 P of the top ten cancers by governorates, Iraq, 2021:

Table No.; (17), Figure No.; (13) shows that the number, percentage and the crude incidence rate of the top ten cancers in Iraq by governorates. It shows that the highest number and percentage was recorded in Baghdad and the lowest in Al Muthana. The highest crude incidence rate/100,000 P of top ten cancers was recorded in Erbil and the lowest recorded in Nineveh.

Table No.; (17) Number and percentage of the top ten cancers by governorates, Iraq, 2021

Top ten	Al-Anbar	Al-Basrah	Al-Muthana	Al-Najaf	Al-Qadysea	Al-Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karballa	Kirkuk	Misan	Nineveh	Salah Al-Deen	ThiQar	Wasit	Un.	Total
Breast	263	523	103	297	191	430	340	2153	299	226	443	286	242	151	503	233	259	266	38	7246
Bronchus & lung	69	187	74	133	104	202	168	563	99	131	185	118	77	100	217	83	171	116	5	2802
Colorectal	107	180	31	86	80	199	108	617	86	117	185	86	97	55	182	81	108	80	8	2493
Brain & other CNS	65	151	25	82	76	118	80	526	91	58	67	60	31	46	155	67	110	65	9	1882
Urinary bladder	58	183	41	78	78	104	96	373	48	37	92	82	44	54	109	37	151	87	17	1769
Thyroid gland	133	92	29	84	79	105	79	484	60	59	82	57	21	28	94	98	98	77	4	1763
Leukemia	58	158	44	88	57	85	88	302	51	73	110	80	87	53	148	54	137	58	1	1732
Non-Hodgkin lymphoma	57	143	27	65	63	111	67	328	42	42	98	63	44	36	91	34	64	49	9	1433
Prostate	60	91	18	66	41	111	75	312	42	28	126	51	43	26	89	37	46	40	11	1313
Skin, other	14	86	11	50	34	102	26	236	76	87	213	36	41	15	44	38	40	41	31	1221
Total	884	1794	403	1029	803	1567	1127	5894	894	858	1601	919	727	564	1632	762	1184	879	133	23654
Percentage	3.74	7.58	1.70	4.35	3.39	6.62	4.76	24.92	3.78	3.63	6.77	3.89	3.07	2.38	6.90	3.22	5.01	3.72	0.56	100.00

**Figure No.; (13) Crude incidence rate of the top ten cancer /100, 000 populations
by governorates, Iraq, 2021**



Results

New cases of Cancer by Governorates in Iraq 2021

Al-Sulaimanyia
Populations Number : 2336191
Cancer Cases Number :2775
Incidence Rate:118.78/100,000 Al-Sulaimanyia Populations



3.4. Top ten cancers by governorates in Iraq, 2021:

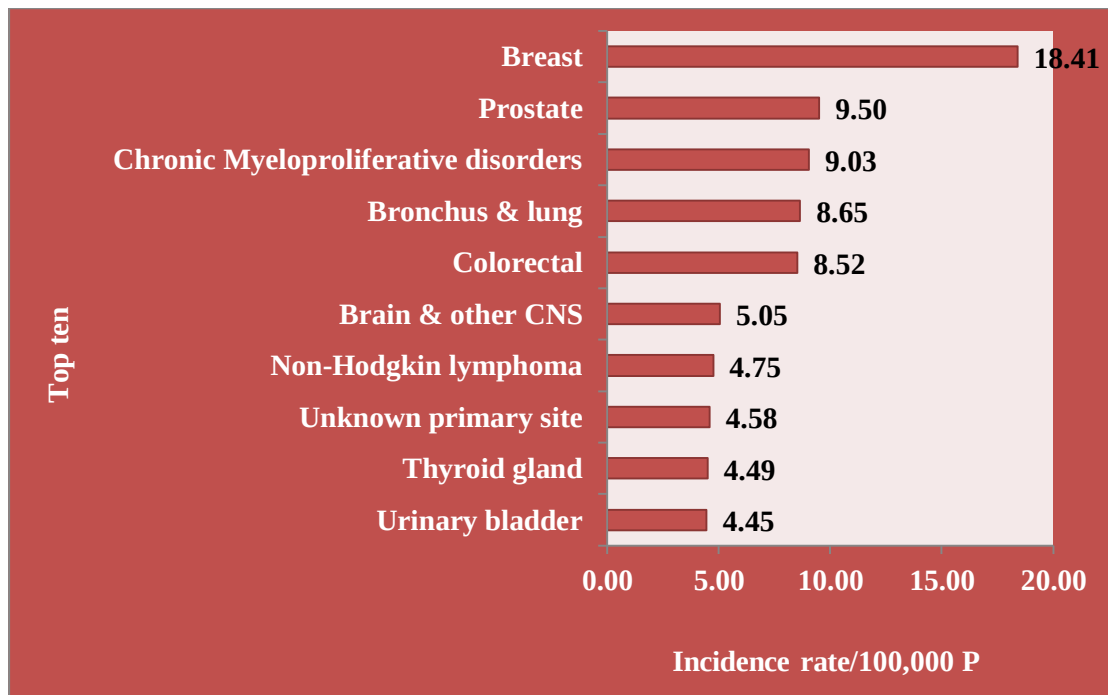
3.4.1. Al-Sulaimanyia governorate

Table No.; (18), Figure No.; (14) shows that the highest number, percentage and crude incidence rate/100,000 P of the top ten cancer was breast cancer and the lowest was urinary bladder cancer.

Table No.; (18) Number and percentage of the top ten cancers in Al-Sulaimanyia, Iraq, 2021

Top ten	No.	%
1 Breast	430	25.32
2 Chronic Myeloproliferative disorders	211	12.43
3 Bronchus & lung	202	11.90
4 Colorectal	199	11.72
5 Brain & other CNS	118	6.95
6 Non-Hodgkin lymphoma	111	6.54
7 Prostate	111	6.54
8 Unknown primary site	107	6.30
9 Thyroid gland	105	6.18
10 Urinary bladder	104	6.12
Total top ten	1698	100.00%

Figure No.; (14) Crude incidence rate of the top ten cancers in Al-Sulaimanyia /100,000 Al-Sulaimanyia populations, Iraq, 2021



The prostate incidence rate is calculated from the male populations.

Table No.; (19), Figure No.; (15) shows that the highest number, percentage and crude incidence rate/100,000 MP of the top ten cancer in male was bronchus & lung cancer and the lowest was skin, other cancer.

Table No.; (19) Number and percentage of the top ten cancers in males, Al-Sulaimanyia, Iraq, 2021

Top ten	No.	%
1 Bronchus & lung	150	16.89
2 Chronic Myeloproliferative disorders	134	15.09
3 Prostate	111	12.50
4 Colorectal	98	11.04
5 Urinary bladder	84	9.46
6 Brain & other CNS	70	7.88
7 Stomach	63	7.09
8 Unknown primary site	63	7.09
9 Non-Hodgkin lymphoma	62	6.98
10 Skin, other	53	5.97
Total top ten	888	100.00%

Figure No.; (15) Crude incidence rate of the top ten cancers in males /100,000 male populations, Al-Sulaimanyia, Iraq, 2021

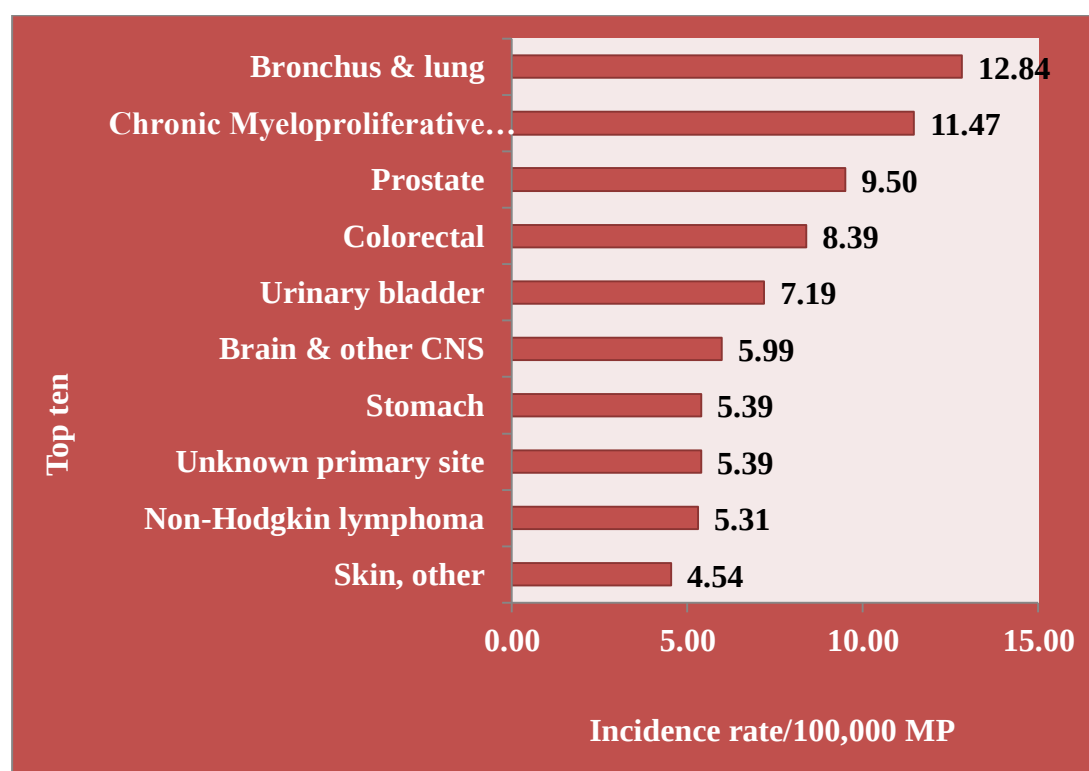


Table No.; (20), Figure No.; (16) shows that the highest number, percentage and crude incidence rate/100,000 FP of the top ten cancer in female was breast cancer and the lowest brain & other CNS tumor.

Table No.; (20) Number and percentage of the top ten cancers in females, Al-Sulaimanyia, Iraq, 2021

Top ten	No.	%
1 Breast	426	42.05
2 Colorectal	101	9.97
3 Thyroid gland	83	8.19
4 Chronic Myeloproliferative disorders	77	7.60
5 Corpus uteri	75	7.40
6 Ovary	53	5.23
7 Bronchus & lung	52	5.13
8 Non-Hodgkin lymphoma	49	4.84
9 Skin, other	49	4.84
10 Brain & other CNS	48	4.74
Total top ten	1013	100.00%

Figure No.; (16) Crude incidence rate of the top ten cancers in females /100,000 female populations, Al-Sulaimanyia, Iraq, 2021

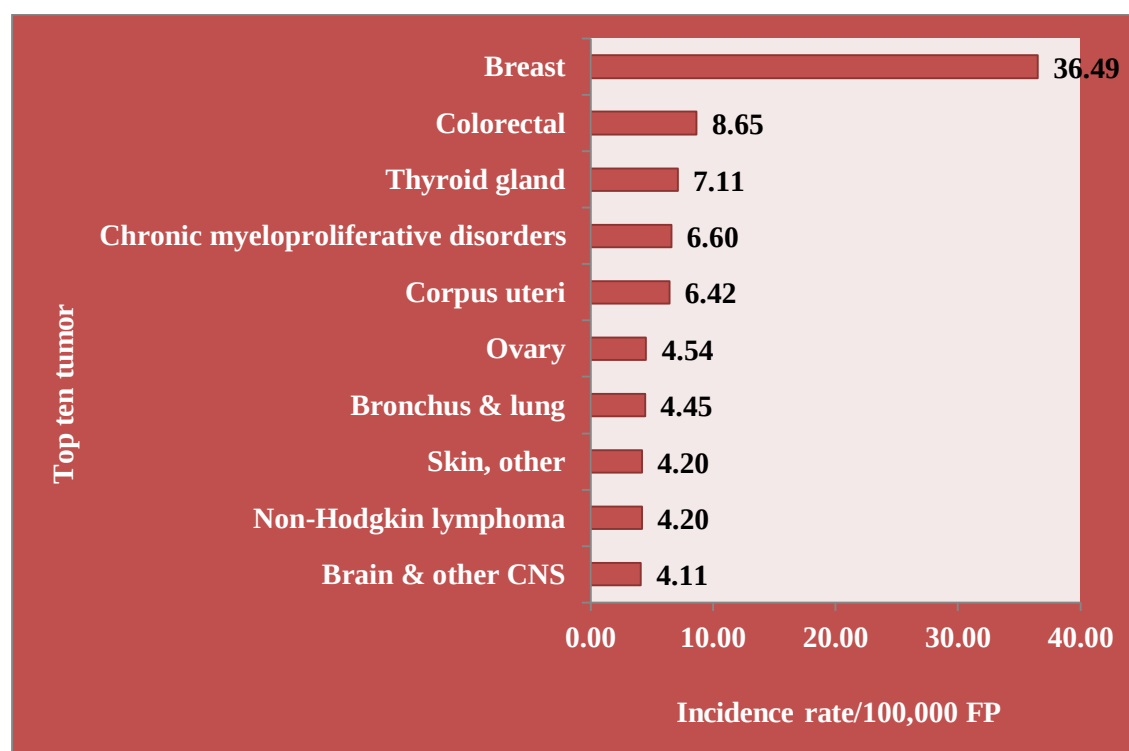


Table No.; (21) Number, percentage and the crude incidence rate/100,000 Al-Sulaimanyia population of cancer by ICD-O code, site of tumor and gender, in Al-Sulaimanyia, Iraq, 2021

ICD-O code/ site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C00 Lip		0	0.00	0.00	1	0.04	0.04	1	0.04	0.04
C01 / Tongue, base		1	0.04	0.04	0	0.00	0.00	1	0.04	0.04
C02 / Tongue, other		1	0.04	0.04	2	0.07	0.09	3	0.11	0.13
C04 / Mouth - floor		0	0.00	0.00	1	0.04	0.04	1	0.04	0.04
C05 / Mouth - palate		1	0.04	0.04	0	0.00	0.00	1	0.04	0.04
C06 / Mouth - other		2	0.07	0.09	2	0.07	0.09	4	0.14	0.17
C07 / Parotid gland		4	0.14	0.17	3	0.11	0.13	7	0.25	0.30
C08 / Mouth glands		1	0.04	0.04	2	0.07	0.09	3	0.11	0.13
C10 / Oropharynx		0	0.00	0.00	1	0.04	0.04	1	0.04	0.04
C11 / Nasopharynx		4	0.14	0.17	12	0.43	0.51	16	0.58	0.68
C13 / Hypopharynx		0	0.00	0.00	1	0.04	0.04	1	0.04	0.04
C14 / Pharynx		2	0.07	0.09	0	0.00	0.00	2	0.07	0.09
C15 / Oesophagus		11	0.40	0.47	25	0.90	1.07	36	1.30	1.54
C16 / Stomach		38	1.37	1.63	63	2.27	2.70	101	3.64	4.32
C17 / Small intestine		6	0.22	0.26	3	0.11	0.13	9	0.32	0.39
C18 / Colon		71	2.56	3.04	63	2.27	2.70	134	4.83	5.74
C20 / Rectum		30	1.08	1.28	35	1.26	1.50	65	2.34	2.78
C21 / Anus & anal canal		0	0.00	0.00	1	0.04	0.04	1	0.04	0.04
C22 / Liver & bile ducts		17	0.61	0.73	29	1.05	1.24	46	1.66	1.97
C23 / Gallbladder		17	0.61	0.73	7	0.25	0.30	24	0.86	1.03
C24 / Biliary tract , other		8	0.29	0.34	4	0.14	0.17	12	0.43	0.51
C25 / Pancreas		36	1.30	1.54	45	1.62	1.93	81	2.92	3.47
C26 / Other digestive organs		1	0.04	0.04	0	0.00	0.00	1	0.04	0.04
C30 / Nasal cavity		1	0.04	0.04	1	0.04	0.04	2	0.07	0.09
C31 / Accessory sinus		5	0.18	0.21	25	0.90	1.07	30	1.08	1.28
C32 / Larynx		52	1.87	2.23	150	5.41	6.42	202	7.28	8.65
C34 / Bronchus & lung		0	0.00	0.00	1	0.04	0.04	1	0.04	0.04
C37 / Thymus		1	0.04	0.04	1	0.04	0.04	2	0.07	0.09
C38 / Heart, Mediastinum, pleura		1	0.04	0.04	4	0.14	0.17	5	0.18	0.21
C40 / Bone & cartilage, limbs		5	0.18	0.21	9	0.32	0.39	14	0.50	0.60
C41 / Bones & cartilage, other		1	0.04	0.04	1	0.04	0.04	2	0.07	0.09
C42 / Reticulo endothelial & Hematopoietic System	Chronic Myelo proliferative disorders	77	2.77	3.30	134	4.83	5.74	211	7.60	9.03
	Immuno proliferative diseases	2	0.07	0.09	0	0.00	0.00	2	0.07	0.09
	Leukemia	37	1.33	1.58	48	1.73	2.05	85	3.06	3.64

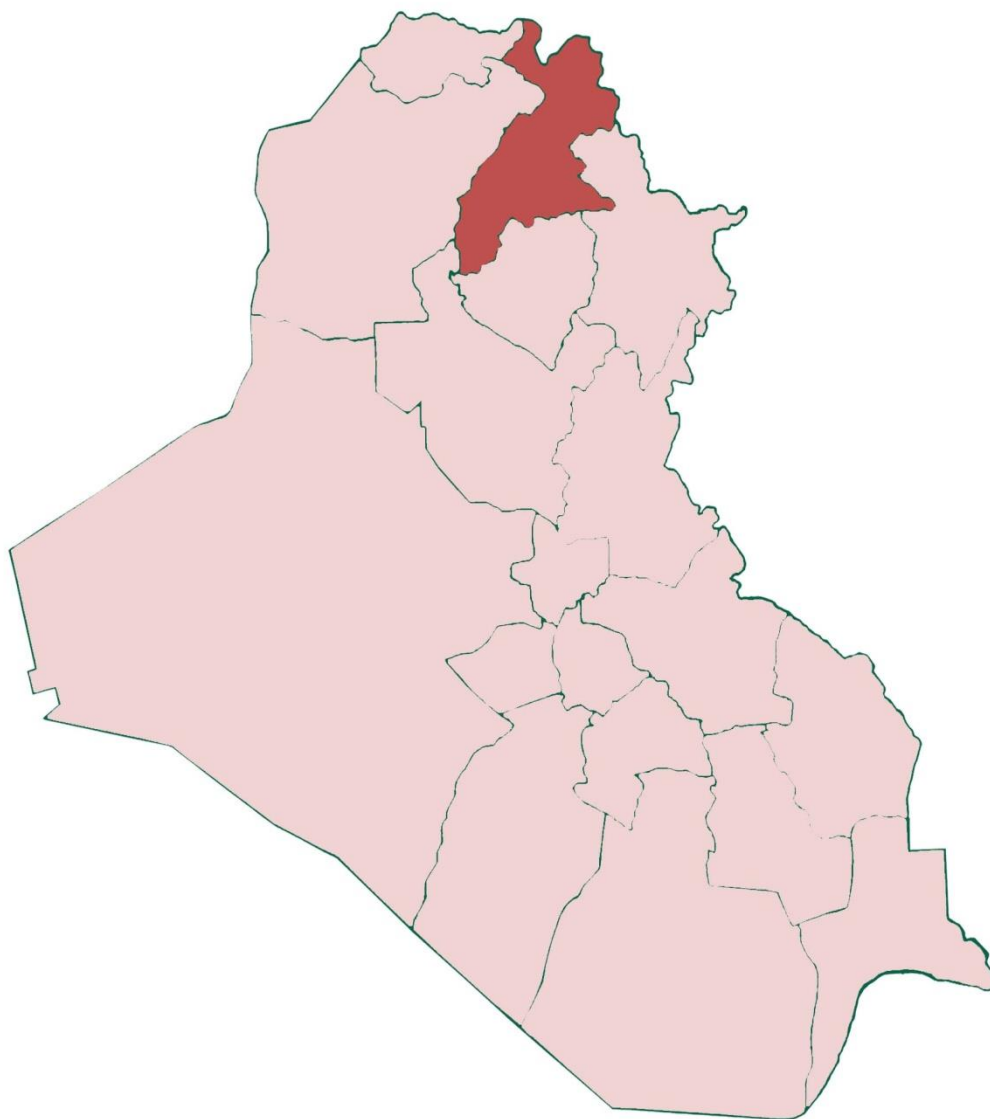
ICD-O code/ site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C42 / Reticulo endothelial & Hemato poietic System	Mast cell tumor	1	0.04	0.04	0	0.00	0.00	1	0.04	0.04
	Myelodys plastic syndromes	9	0.32	0.39	7	0.25	0.30	16	0.58	0.68
	Plasma cell tumor	21	0.76	0.90	35	1.26	1.50	56	2.02	2.40
C44 / Skin, other		49	1.77	2.10	53	1.91	2.27	102	3.68	4.37
C48 / Peritoneum		6	0.22	0.26	2	0.07	0.09	8	0.29	0.34
C49 / Soft tissues		22	0.79	0.94	12	0.43	0.51	34	1.23	1.46
C50 / Breast		426	15.35	18.23	4	0.14	0.17	430	15.50	18.41
C52 / Vagina		2	0.07	0.17	0	0.00	0.00	2	0.07	0.17
C53 / Cervix uteri		15	0.54	1.28	0	0.00	0.00	15	0.54	1.28
C54 / Corpus uteri		75	2.70	6.42	0	0.00	0.00	75	2.70	6.42
C55 / Uterus unspecified		9	0.32	0.77	0	0.00	0.00	9	0.32	0.77
C56 / Ovary		53	1.91	4.54	0	0.00	0.00	53	1.91	4.54
C57 / Female genital - other		3	0.11	0.26	0	0.00	0.00	3	0.11	0.26
C58 / Placenta		14	0.50	1.20	0	0.00	0.00	14	0.50	1.20
C61 / Prostate		0	0.00	0.00	111	4.00	9.50	111	4.00	9.50
C62 / Testis		0	0.00	0.00	27	0.97	2.31	27	0.97	2.31
C64 / Kidney		22	0.79	0.94	38	1.37	1.63	60	2.16	2.57
C65 / Pelvis		14	0.50	0.60	17	0.61	0.73	31	1.12	1.33
C67 / Urinary bladder		20	0.72	0.86	84	3.03	3.60	104	3.75	4.45
C68 / Urinary organs, other		0	0.00	0.00	1	0.04	0.04	1	0.04	0.04
C69 / Eye & Adnexa		3	0.11	0.13	7	0.25	0.30	10	0.36	0.43
C70 / Meninges		2	0.07	0.09	3	0.11	0.13	5	0.18	0.21
C71 / Brain		42	1.51	1.80	64	2.31	2.74	106	3.82	4.54
C72 / Nervous system, other		3	0.11	0.13	3	0.11	0.13	6	0.22	0.26
C73 / Thyroid gland		83	2.99	3.55	22	0.79	0.94	105	3.78	4.49
C74 / Adrenal gland		3	0.11	0.13	5	0.18	0.21	8	0.29	0.34
C75 / Endocrine gland, other		3	0.11	0.13	4	0.14	0.17	7	0.25	0.30
C76 / Unspecified site		3	0.11	0.13	1	0.04	0.04	4	0.14	0.17
C77 / Lymph node	Hodgkin Lymphoma	19	0.68	0.81	27	0.97	1.16	46	1.66	1.97
	Non-Hodgkin Lymphoma	49	1.77	2.10	62	2.23	2.65	111	4.00	4.75
C80 / Unknown primary site		44	1.59	1.88	63	2.27	2.70	107	3.86	4.58
Total		1448	52.18	61.98	1327	47.82	56.80	2775	100%	118.78

Note:

* From C52 to C58 the incidence rate was calculated from the female population.

* From C61 to C62 the incidence rate was calculated from the male population.

Erbil
Populations Number : 2003963
Cancer Cases Number : 2308
Incidence Rate: 115.17 /100,000 Erbil Populations



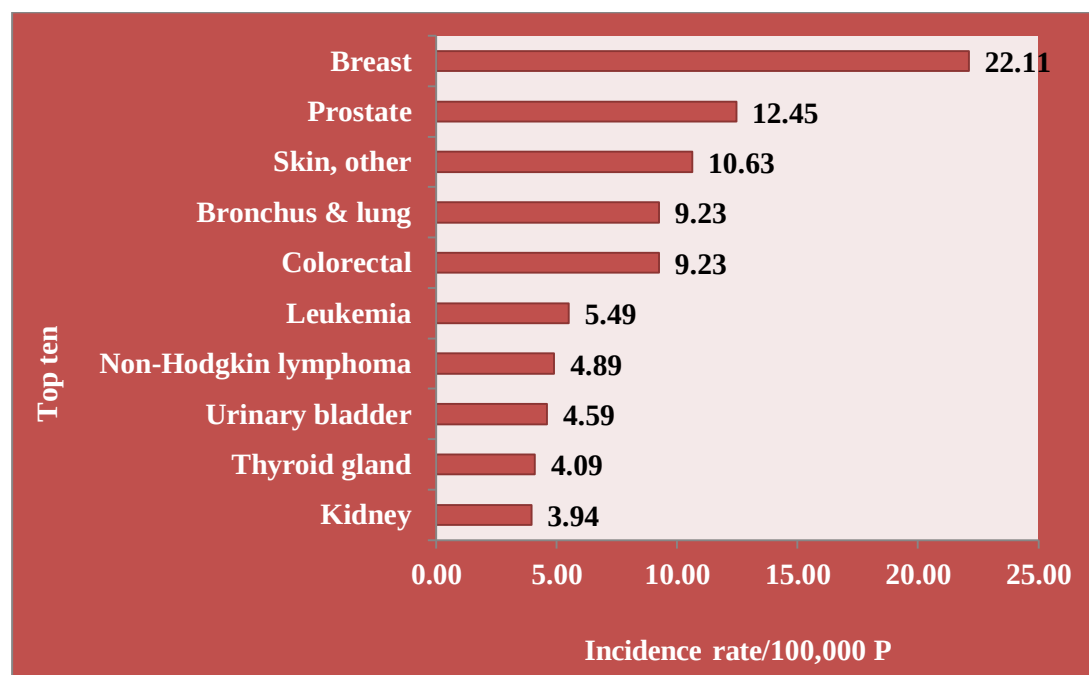
3.4.2. Erbil governorate:

Table No.; (22), Figure No.; (17) shows that the highest number, percentage and crude incidence rate/100,000 P of the top ten cancer was breast cancer and the lowest kidney cancer.

Table No.; (22) Number and percentage of the top ten cancers in Erbil, Iraq, 2021

Top ten	No.	%
1 Breast	443	27.46
2 Skin, other	213	13.21
3 Bronchus & lung	185	11.47
4 Colorectal	185	11.47
5 Prostate	126	7.81
6 Leukemia	110	6.82
7 Non-Hodgkin lymphoma	98	6.08
8 Urinary bladder	92	5.70
9 Thyroid gland	82	5.08
10 Kidney	79	4.90
Total top ten	1613	100.00%

Figure No.; (17) Crude incidence rate of the top ten cancers in Erbil /100,000 Erbil populations, Iraq, 2021



The prostate incidence rate is calculated from the male populations.

Table No.; (23), Figure No.; (18) shows that the highest number, percentage and crude incidence rate/100,000 MP of the top ten cancer in male was bronchus & lung cancer and the lowest Hodgkin lymphomas.

Table No.; (23) Number and percentage of the top ten cancers in males, Erbil, Iraq, 2021

Top ten	No.	%
1 Bronchus & lung	146	18.11
2 Prostate	126	15.63
3 Skin, other	108	13.40
4 Colorectal	106	13.15
5 Urinary bladder	79	9.80
6 Leukemia	68	8.44
7 Non-Hodgkin lymphoma	64	7.94
8 Kidney	49	6.08
9 Brain & other CNS	32	3.97
10 Hodgkin lymphomas	28	3.47
Total top ten	806	100.00%

Figure No.; (18) Crude incidence rate of the top ten cancers in males / 100,000 male populations, Erbil, Iraq, 2021

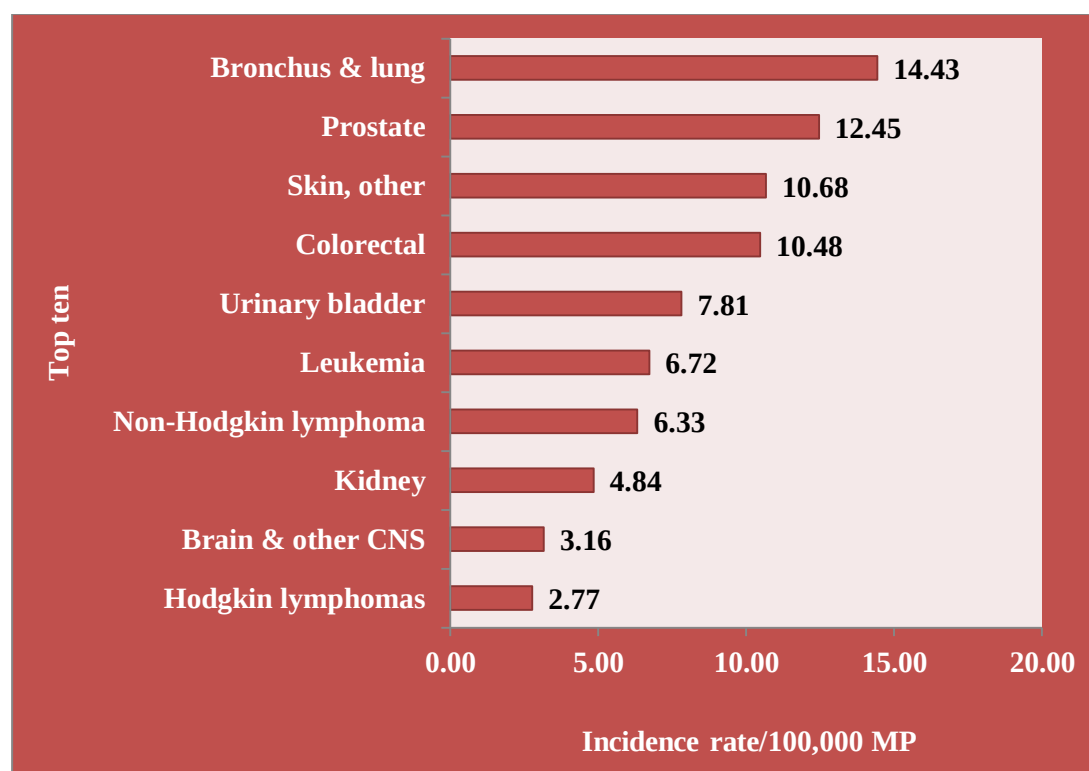


Table No.; (24), Figure No.; (19) shows that the highest number, percentage and crude incidence rate/100,000 FP of the top ten cancer in female was breast cancer and the lowest Non-Hodgkin lymphomas.

Table No.; (24) Number and percentage of the top ten cancers in females, Erbil, Iraq, 2021

Top ten	No.	%
1 Breast	431	46.80
2 Skin, other	105	11.40
3 Colorectal	79	8.58
4 Thyroid gland	70	7.60
5 Corpus uteri	49	5.32
6 Leukemia	42	4.56
7 Bronchus & lung	39	4.23
8 Ovary	37	4.02
9 Brain & other CNS	35	3.80
10 Non-Hodgkin lymphoma	34	3.69
Total top ten	921	100.00%

Figure No.; (19) Crude incidence rate of the top ten cancers in females /100,000 female populations, Erbil, Iraq, 2021

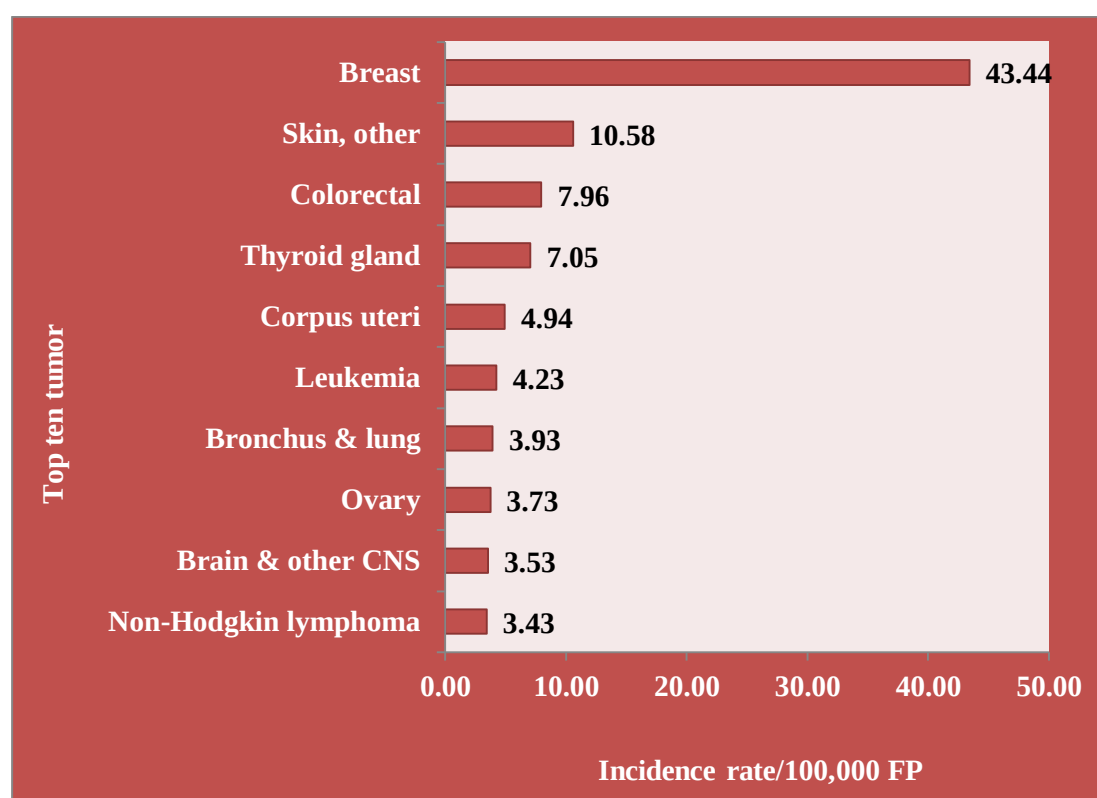


Table No.; (25) Number, percentage and the crude incidence rate/100,000 Erbil population of cancer by ICD-O code, site of tumor and gender, in Erbil, Iraq, 2021

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip		2	0.09	0.10	3	0.13	0.15	5	0.22	0.25
C02 / Tongue, other		5	0.22	0.25	4	0.17	0.20	9	0.39	0.45
C05 / Mouth - palate		1	0.04	0.05	1	0.04	0.05	2	0.09	0.10
C06 / Mouth - other		1	0.04	0.05	4	0.17	0.20	5	0.22	0.25
C07 / Parotid gland		5	0.22	0.25	2	0.09	0.10	7	0.30	0.35
C08 / Mouth glands		2	0.09	0.10	3	0.13	0.15	5	0.22	0.25
C09 / Tonsil		0	0.00	0.00	1	0.04	0.05	1	0.04	0.05
C11 / Nasopharynx		4	0.17	0.20	6	0.26	0.30	10	0.43	0.50
C13 / Hypopharynx		2	0.09	0.10	1	0.04	0.05	3	0.13	0.15
C15 / Oesophagus		11	0.48	0.55	10	0.43	0.50	21	0.91	1.05
C16 / Stomach		28	1.21	1.40	28	1.21	1.40	56	2.43	2.79
C17 / Small intestine		4	0.17	0.20	7	0.30	0.35	11	0.48	0.55
C18 / Colon		56	2.43	2.79	65	2.82	3.24	121	5.24	6.04
C19 / Recto sigmoid Junction		2	0.09	0.10	6	0.26	0.30	8	0.35	0.40
C20 / Rectum		21	0.91	1.05	35	1.52	1.75	56	2.43	2.79
C21 / Anus & anal canal		3	0.13	0.15	1	0.04	0.05	4	0.17	0.20
C22 / Liver & bile ducts		4	0.17	0.20	10	0.43	0.50	14	0.61	0.70
C23 / Gallbladder		6	0.26	0.30	3	0.13	0.15	9	0.39	0.45
C24 / Biliary tract , other		6	0.26	0.30	9	0.39	0.45	15	0.65	0.75
C25 / Pancreas		21	0.91	1.05	28	1.21	1.40	49	2.12	2.45
C26 / Other digestive organs		1	0.04	0.05	4	0.17	0.20	5	0.22	0.25
C30 / Nasal cavity		2	0.09	0.10	1	0.04	0.05	3	0.13	0.15
C31 / Accessory sinus		2	0.09	0.10	1	0.04	0.05	3	0.13	0.15
C32 / Larynx		3	0.13	0.15	28	1.21	1.40	31	1.34	1.55
C34 / Bronchus & lung		39	1.69	1.95	146	6.33	7.29	185	8.02	9.23
C37 / Thymus		0	0.00	0.00	1	0.04	0.05	1	0.04	0.05
C38 / Heart, Mediastinum, pleura		2	0.09	0.10	4	0.17	0.20	6	0.26	0.30
C40 / Bone & cartilage, limbs		4	0.17	0.20	4	0.17	0.20	8	0.35	0.40
C41 / Bones & cartilage, other		9	0.39	0.45	3	0.13	0.15	12	0.52	0.60
C42 / Reticulo endothelial & Hemato poietic System	Chronic Myeloproliferative disorders	2	0.09	0.10	9	0.39	0.45	11	0.48	0.55
	Leukemia	42	1.82	2.10	68	2.95	3.39	110	4.77	5.49
	Myelodys plastic syndromes	0	0.00	0.00	2	0.09	0.10	2	0.09	0.10
	Plasma cell tumor	10	0.43	0.50	19	0.82	0.95	29	1.26	1.45
C44 / Skin, other		105	4.55	5.24	108	4.68	5.39	213	9.23	10.63
C47 /Nerves system		1	0.04	0.05	0	0.00	0.00	1	0.04	0.05
C48 / Peritoneum		6	0.26	0.30	1	0.04	0.05	7	0.30	0.35

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C49 / Soft tissues		14	0.61	0.70	20	0.87	1.00	34	1.47	1.70
C50 / Breast		431	18.67	21.51	12	0.52	0.60	443	19.19	22.11
C51 / Vulva		5	0.22	0.50	0	0.00	0.00	5	0.22	0.50
C53 / Cervix uteri		14	0.61	1.41	0	0.00	0.00	14	0.61	1.41
C54 / Corpus uteri		49	2.12	4.94	0	0.00	0.00	49	2.12	4.94
C55 / Uterus unspecified		11	0.48	1.11	0	0.00	0.00	11	0.48	1.11
C56 / Ovary		37	1.60	3.73	0	0.00	0.00	37	1.60	3.73
C58 / Placenta		7	0.30	0.71	0	0.00	0.00	7	0.30	0.71
C61 / Prostate		0	0.00	0.00	126	5.46	12.45	126	5.46	12.45
C62 / Testis		0	0.00	0.00	16	0.69	1.58	16	0.69	1.58
C64 / Kidney		30	1.30	1.50	49	2.12	2.45	79	3.42	3.94
C65 / Pelvis		0	0.00	0.00	1	0.04	0.05	1	0.04	0.05
C67 / Urinary bladder		13	0.56	0.65	79	3.42	3.94	92	3.99	4.59
C69 / Eye & Adnexa		2	0.09	0.10	1	0.04	0.05	3	0.13	0.15
C70 / Meninges		2	0.09	0.10	2	0.09	0.10	4	0.17	0.20
C71 / Brain		28	1.21	1.40	25	1.08	1.25	53	2.30	2.64
C72 / Nervous system, other		1	0.04	0.05	1	0.04	0.05	2	0.09	0.10
C73 / Thyroid gland		70	3.03	3.49	12	0.52	0.60	82	3.55	4.09
C74 / Adrenal gland		1	0.04	0.05	2	0.09	0.10	3	0.13	0.15
C75 / Endocrine gland, other		5	0.22	0.25	4	0.17	0.20	9	0.39	0.45
C76 / Unspecified site		1	0.04	0.05	2	0.09	0.10	3	0.13	0.15
C77 / Lymph node	Hodgkin Lymphoma	18	0.78	0.90	28	1.21	1.40	46	1.99	2.30
	Non-Hodgkin Lymphoma	34	1.47	1.70	64	2.77	3.19	98	4.25	4.89
C80 / Unknown primary site		25	1.08	1.25	28	1.21	1.40	53	2.30	2.64
Total		1210	52.43	60.38	1098	47.57	54.79	2308	100.00	115.17

Note:

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

*From C61 to C62 the incidence rate was calculated from the male population.

Karbala
Populations Number : 1316750
Cancer Cases Number : 1408
Incidence Rate:106.93/100,000 Karbala Populations



3.4.3. Karbala governorate

Table No.; (26), Figure No.; (20) shows that the highest number, percentage and crude incidence rate/100,000 P of the top ten cancer was breast cancer and the lowest stomach cancer.

Table No.; (26) Number and percentage of the top ten cancers in Karbala, Iraq, 2021

Top ten	No.	%
1 Breast	286	30.30
2 Bronchus & lung	118	12.50
3 Colorectal	86	9.11
4 Urinary bladder	82	8.69
5 Leukemia	80	8.47
6 Non-Hodgkin lymphoma	63	6.67
7 Brain & other CNS	60	6.36
8 Thyroid gland	57	6.04
9 Pancreas	56	5.93
10 Stomach	56	5.93
Total top ten	944	67.05

Figure No.; (20) Crude incidence rate of the top ten cancers in Karbala /100,000 Karbala populations, Iraq, 2021

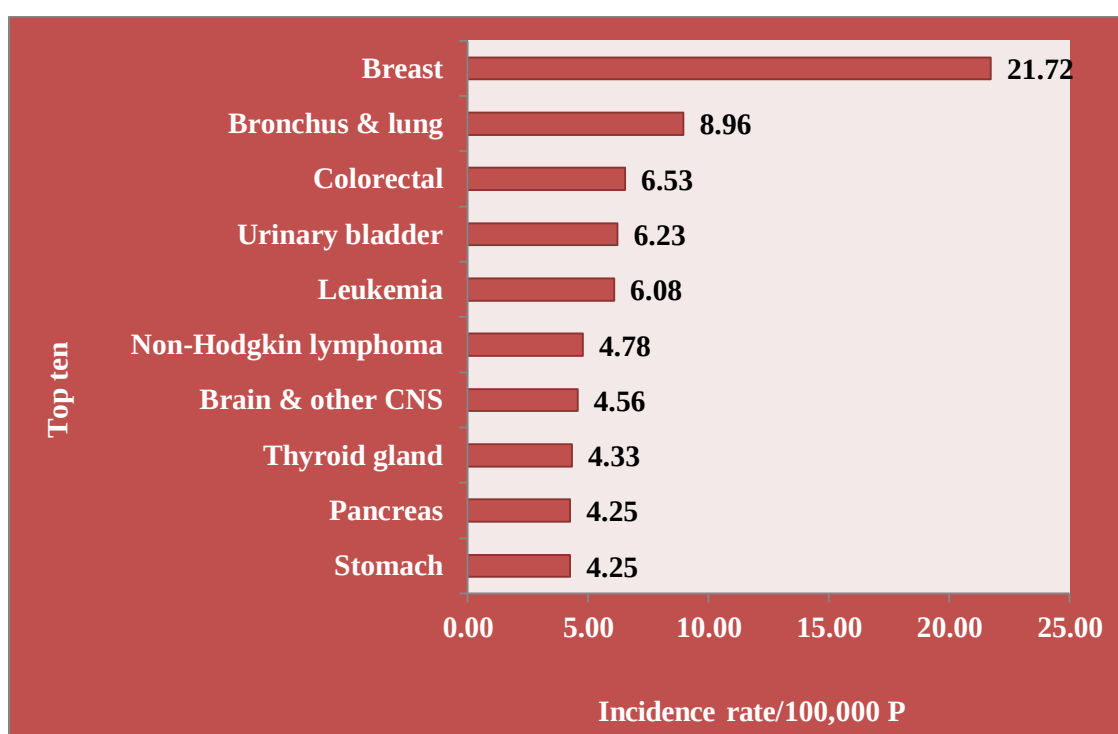


Table No.; (27), Figure No.; (21) shows that the highest number, percentage and crude incidence rate/100,000 MP of the top ten cancer in male was bronchus & lung cancer and the lowest Hodgkin lymphomas.

Table No.; (27) Number and percentage of the top ten cancers in males, Karbala, Iraq, 2021

Top ten	No.	%
1 Bronchus & lung	70	17.37
2 Urinary bladder	62	15.38
3 Prostate	51	12.66
4 Colorectal	41	10.17
5 Leukemia	35	8.68
6 Brain & other CNS	32	7.94
7 Non-Hodgkin lymphoma	30	7.44
8 Pancreas	30	7.44
9 Stomach	29	7.20
10 Hodgkin lymphomas	23	5.71
Total top ten	403	100.00%

Figure No.; (21) Crude incidence rate of the top ten cancers in males /100,000 Male Populations, Karbala, Iraq, 2021

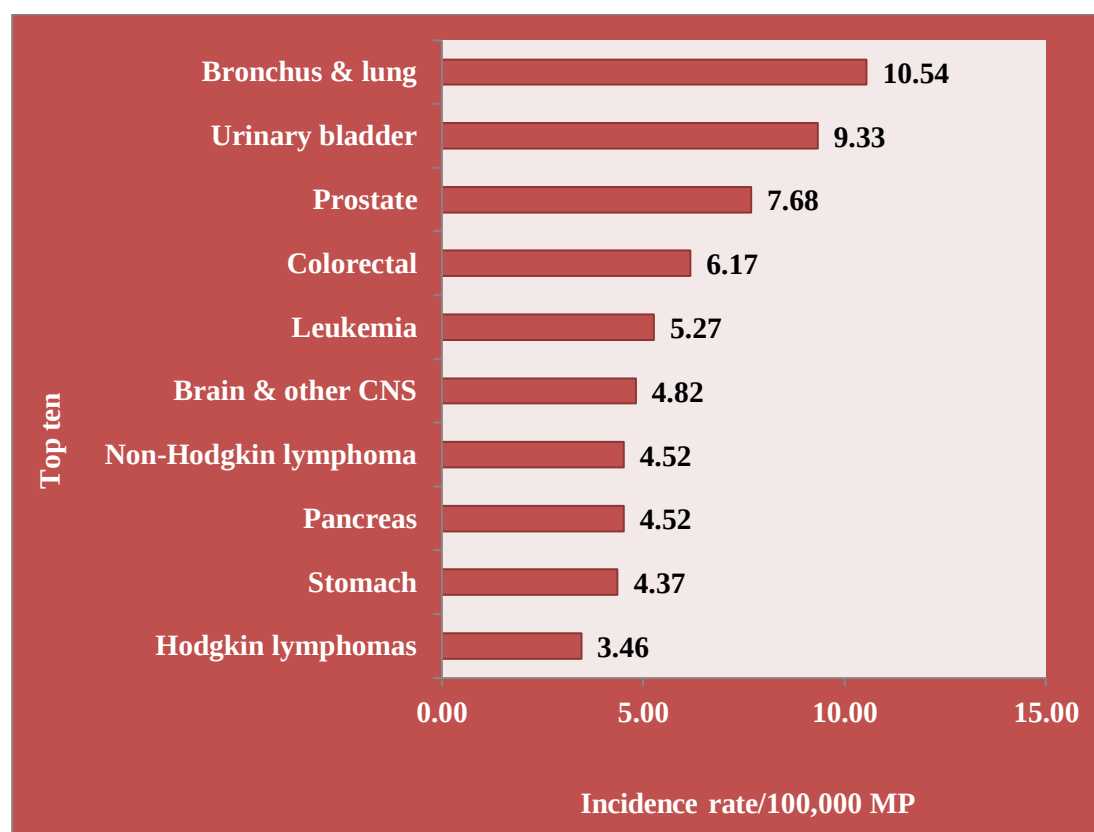


Table No.; (28), Figure No.; (22) shows that the highest number, percentage and crude incidence rate/100,000 FP of the top ten cancer in female was breast cancer and the lowest stomach cancer.

Table No.; (28) Number and percentage of the top ten cancers in females, Karbala, Iraq, 2021

Top Ten	No.	%
1 Breast	275	45.01
2 Bronchus & lung	48	7.86
3 Colorectal	45	7.36
4 Leukemia	45	7.36
5 Thyroid gland	45	7.36
6 Non-Hodgkin lymphoma	33	5.40
7 Uterus unspecified	33	5.40
8 Ovary	32	5.24
9 Brain & other CNS	28	4.58
10 Stomach	27	4.42
Total top ten	611	100.00%

Figure No.; (22) Crude incidence rate of the top ten cancers in females / 100,000 female populations, Karbala, Iraq, 2021

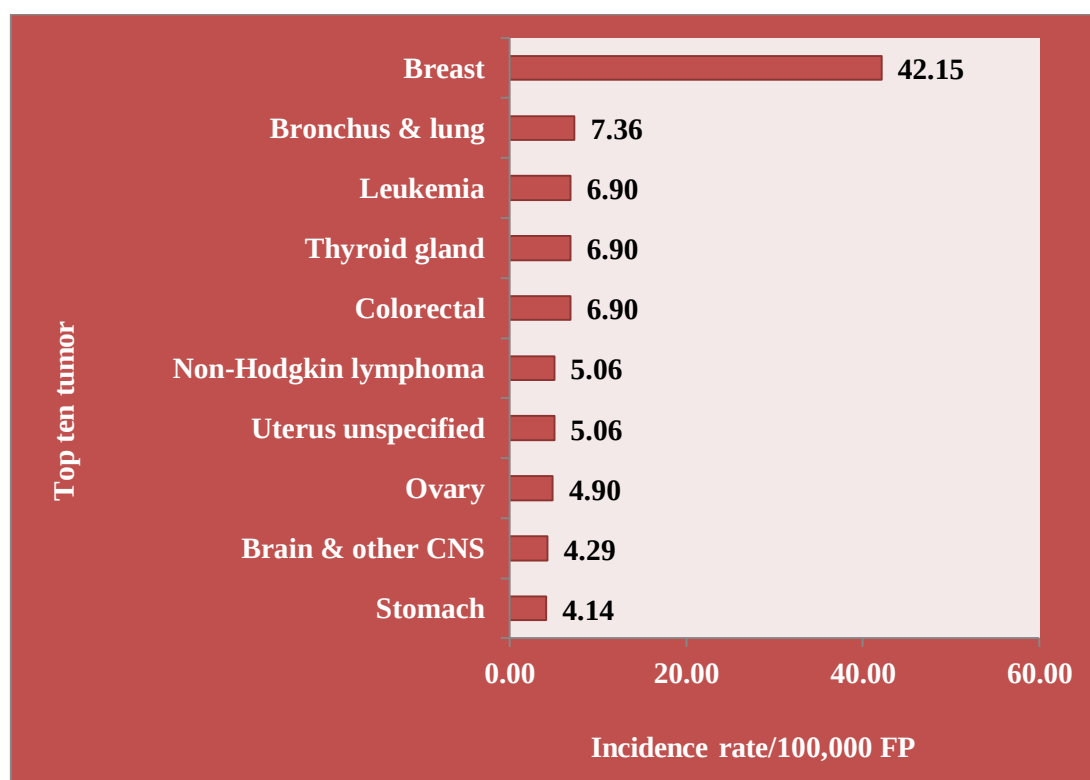


Table No.; (29) Number, percentage and the crude incidence rate/100,000 Karbala population of cancer by ICD-O code, site of tumor and gender, in Karbala, Iraq, 2021

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	0.08	1	0.07	0.08
C02 / Tongue, other		3	0.21	0.23	3	0.21	0.23	6	0.43	0.46
C04 / Mouth - floor		0	0.00	0.00	1	0.07	0.08	1	0.07	0.08
C06 / Mouth - other		0	0.00	0.00	2	0.14	0.15	2	0.14	0.15
C07 / Parotid gland		3	0.21	0.23	4	0.28	0.30	7	0.50	0.53
C08 / Mouth glands		3	0.21	0.23	3	0.21	0.23	6	0.43	0.46
C10 / Oropharynx		0	0.00	0.00	1	0.07	0.08	1	0.07	0.08
C11 / Nasopharynx		7	0.50	0.53	4	0.28	0.30	11	0.78	0.84
C13 / Hypopharynx		1	0.07	0.08	0	0.00	0.00	1	0.07	0.08
C14 / Pharynx		2	0.14	0.15	0	0.00	0.00	2	0.14	0.15
C15 / Oesophagus		7	0.50	0.53	7	0.50	0.53	14	0.99	1.06
C16 / Stomach		27	1.92	2.05	29	2.06	2.20	56	3.98	4.25
C17 / Small intestine		5	0.36	0.38	0	0.00	0.00	5	0.36	0.38
C18 / Colon		31	2.20	2.35	31	2.20	2.35	62	4.40	4.71
C20 / Rectum		14	0.99	1.06	10	0.71	0.76	24	1.70	1.82
C22 / Liver & bile ducts		19	1.35	1.44	19	1.35	1.44	38	2.70	2.89
C23 / Gallbladder		3	0.21	0.23	3	0.21	0.23	6	0.43	0.46
C24 / Biliary tract , other		1	0.07	0.08	1	0.07	0.08	2	0.14	0.15
C25 / Pancreas		26	1.85	1.97	30	2.13	2.28	56	3.98	4.25
C31 / Accessory sinus		0	0.00	0.00	1	0.07	0.08	1	0.07	0.08
C32 / Larynx		3	0.21	0.23	11	0.78	0.84	14	0.99	1.06
C34 / Bronchus & lung		48	3.41	3.65	70	4.97	5.32	118	8.38	8.96
C37 / Thymus		0	0.00	0.00	1	0.07	0.08	1	0.07	0.08
C38 / Heart, Mediastinum, pleura		0	0.00	0.00	2	0.14	0.15	2	0.14	0.15
C40 / Bone & cartilage, limbs		5	0.36	0.38	2	0.14	0.15	7	0.50	0.53
C41 / Bones & cartilage, other		7	0.50	0.53	8	0.57	0.61	15	1.07	1.14
C42 / Reticulo endothelial & Hemato poietic System	Chronic Myelo proliferative disorders	0	0.00	0.00	1	0.07	0.08	1	0.07	0.08
	Leukemia	45	3.20	3.42	35	2.49	2.66	80	5.68	6.08
	Plasma cell tumor	4	0.28	0.30	14	0.99	1.06	18	1.28	1.37
C44 / Skin, other		15	1.07	1.14	21	1.49	1.59	36	2.56	2.73
C47 /Nerves system		0	0.00	0.00	1	0.07	0.08	1	0.07	0.08
C48 / Peritoneum		0	0.00	0.00	1	0.07	0.08	1	0.07	0.08
C49 / Soft tissues		7	0.50	0.53	5	0.36	0.38	12	0.85	0.91
C50 / Breast		275	19.53	20.88	11	0.78	0.84	286	20.31	21.72

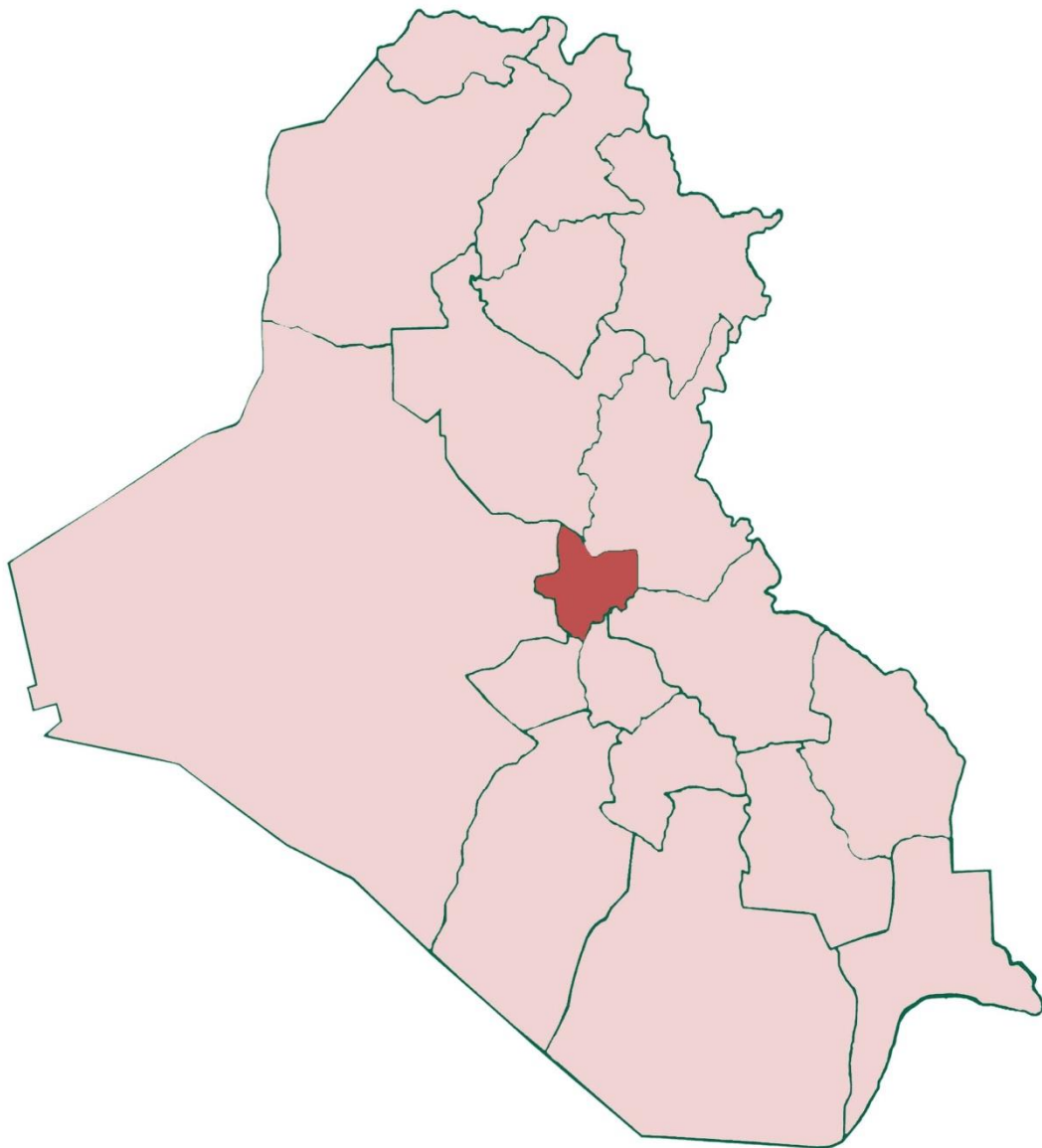
ICD-O code/ site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C51 / Vulva		3	0.21	0.46	0	0.00	0.00	3	0.21	0.46
C53 / Cervix uteri		12	0.85	1.84	0	0.00	0.00	12	0.85	1.84
C54 / Corpus uteri		5	0.36	0.77	0	0.00	0.00	5	0.36	0.77
C55 / Uterus unspecified		33	2.34	5.06	0	0.00	0.00	33	2.34	5.06
C56 / Ovary		32	2.27	4.90	0	0.00	0.00	32	2.27	4.90
C57 / Female genital - other		1	0.07	0.15	0	0.00	0.00	1	0.07	0.15
C58 / Placenta		3	0.21	0.46	0	0.00	0.00	3	0.21	0.46
C61 / Prostate		0	0.00	0.00	51	3.62	7.68	51	3.62	7.68
C62 / Testis		0	0.00	0.00	9	0.64	1.35	9	0.64	1.35
C63 / Male genital - other		0	0.00	0.00	1	0.07	0.15	1	0.07	0.15
C64 / Kidney		9	0.64	0.68	22	1.56	1.67	31	2.20	2.35
C66 / Ureter		0	0.00	0.00	3	0.21	0.23	3	0.21	0.23
C67 / Urinary bladder		20	1.42	1.52	62	4.40	4.71	82	5.82	6.23
C69 / Eye & Adnexa		3	0.21	0.23	2	0.14	0.15	5	0.36	0.38
C70 / Meninges		5	0.36	0.38	4	0.28	0.30	9	0.64	0.68
C71 / Brain		22	1.56	1.67	26	1.85	1.97	48	3.41	3.65
C73 / Thyroid gland		45	3.20	3.42	12	0.85	0.91	57	4.05	4.33
C74 / Adrenal gland		1	0.07	0.08	4	0.28	0.30	5	0.36	0.38
C75 / Endocrine gland, other		1	0.07	0.08	2	0.14	0.15	3	0.21	0.23
C77 / Lymph node	Hodgkin Lymphoma	18	1.28	1.37	23	1.63	1.75	41	2.91	3.11
	Non-Hodgkin Lymphoma	33	2.34	2.51	30	2.13	2.28	63	4.47	4.78
C80 / Unknown primary site		9	0.64	0.68	8	0.57	0.61	17	1.21	1.29
Total		816	57.95	61.97	592	42.05	44.96	1408	100.00	106.93

Note:

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

* From C61 to C63 the incidence rate was calculated from the male population.

Baghdad
Populations Number : 8780422
Cancer Cases Number : 8732
Incidence Rate: 99.45/100,000 Baghdad Populations



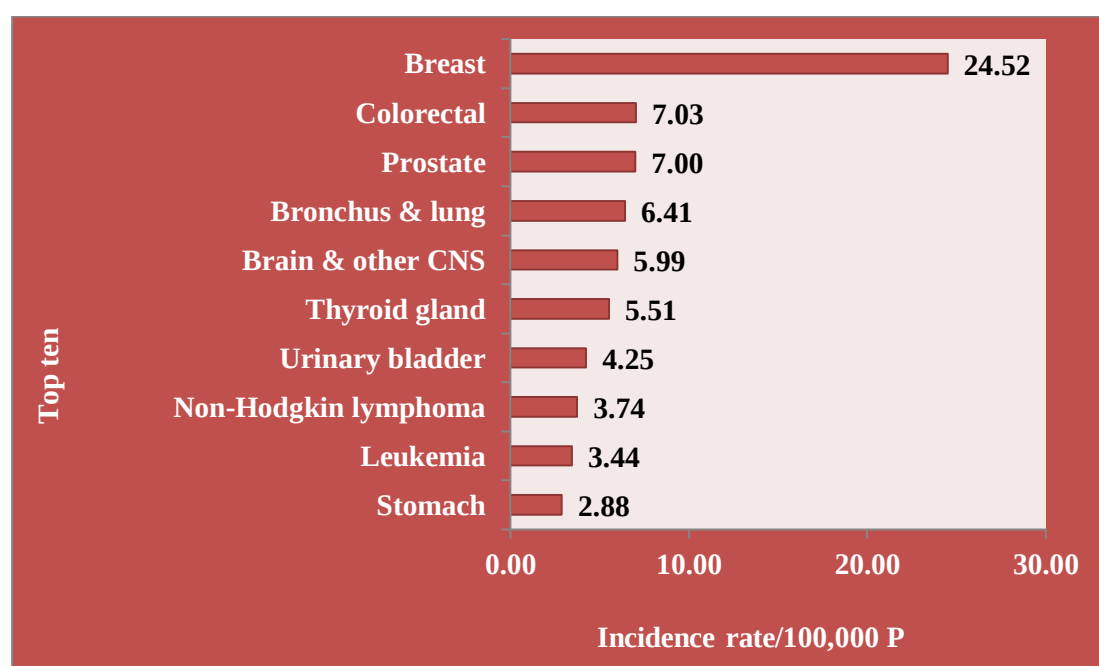
3.4.4. Baghdad governorate

Table No.; (30), Figure No.; (23) shows that the highest number, percentage and crude incidence rate/100,000 P of the top ten cancer was breast cancer and the lowest stomach cancer.

Table No.; (30) Number and percentage of the top ten cancers in Baghdad, Iraq, 2021

Top ten	No.	%
1 Breast	2153	36.42
2 Colorectal	617	10.44
3 Bronchus & lung	563	9.52
4 Brain & other CNS	526	8.90
5 Thyroid gland	484	8.19
6 Urinary bladder	373	6.31
7 Non-Hodgkin lymphoma	328	5.55
8 Prostate	312	5.28
9 Leukemia	302	5.11
10 Stomach	253	4.28
Total top ten	5911	100.00%

Figure No.; (23) Crude incidence rate of the top ten cancers in Baghdad /100,000 Baghdad populations, Iraq, 2021



The prostate incidence rate is calculated from the male populations.

Table No.; (31), Figure No.; (24) shows that the highest number, percentage and crude incidence rate/100,000 MP of the top ten cancer in male was bronchus & lung cancer and the lowest skin, other cancer.

Table No.; (31) Number and percentage of the top ten cancers in males, Baghdad, Iraq, 2021

Top ten	No.	%
1 Bronchus & lung	400	16.81
2 Colorectal	334	14.03
3 Prostate	312	13.11
4 Brain & other CNS	285	11.97
5 Urinary bladder	283	11.89
6 Non-Hodgkin lymphoma	184	7.73
7 Leukemia	170	7.14
8 Pancreas	142	5.97
9 Kidney	137	5.76
10 Skin, other	133	5.59
Total top ten	2380	100.00%

Figure No.; (24) Crude incidence rate of the top ten cancers in males / 100,000 male populations, Baghdad, Iraq, 2021

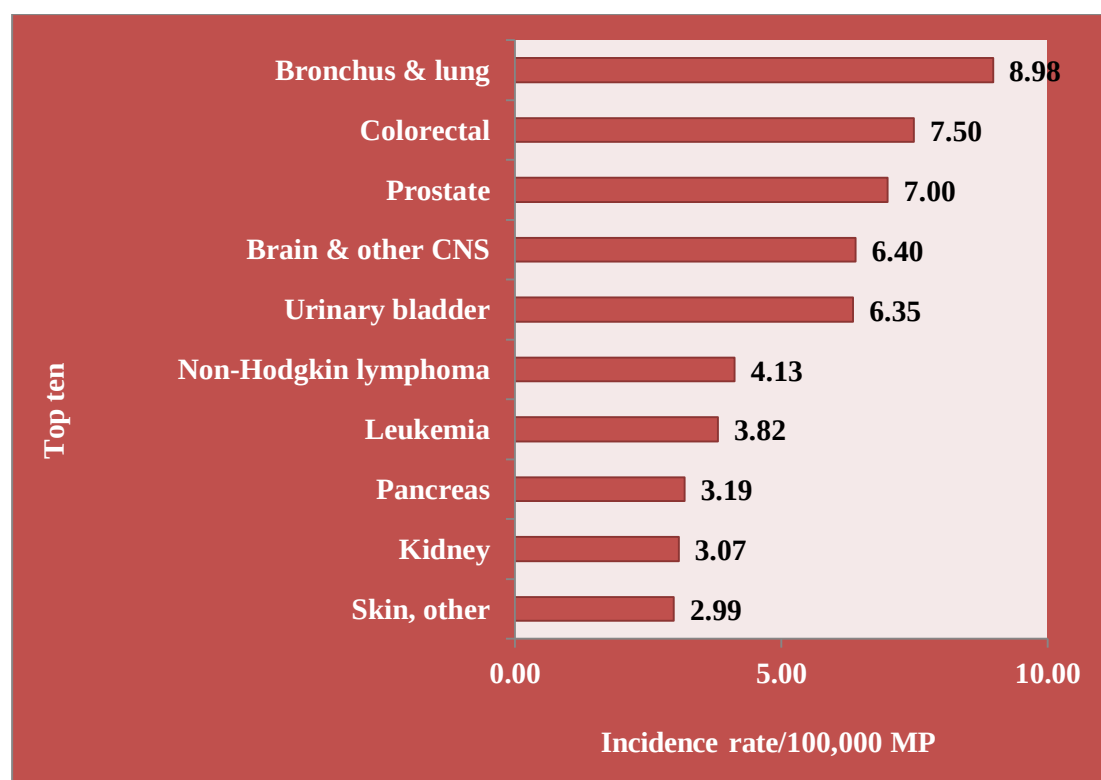


Table No.; (32), Figure No.; (25) shows that the highest number, percentage and crude incidence rate/100,000 FP of the top ten cancer in female was breast cancer and the lowest leukemia.

Table No.; (32) Number and percentage of the top ten cancers in females, Baghdad, Iraq, 2021

Top ten	No.	%
1 Breast	2124	53.11
2 Thyroid gland	398	9.95
3 Colorectal	283	7.08
4 Brain & other CNS	241	6.03
5 Ovary	199	4.98
6 Corpus uteri	180	4.50
7 Bronchus & lung	163	4.08
8 Non-Hodgkin lymphoma	144	3.60
9 Unknown primary site	135	3.38
10 Leukemia	132	3.30
Total top ten	3999	100.00%

Figure No.; (25) Crude incidence rate of the top ten cancers in females / 100,000 female populations, Baghdad, Iraq, 2021

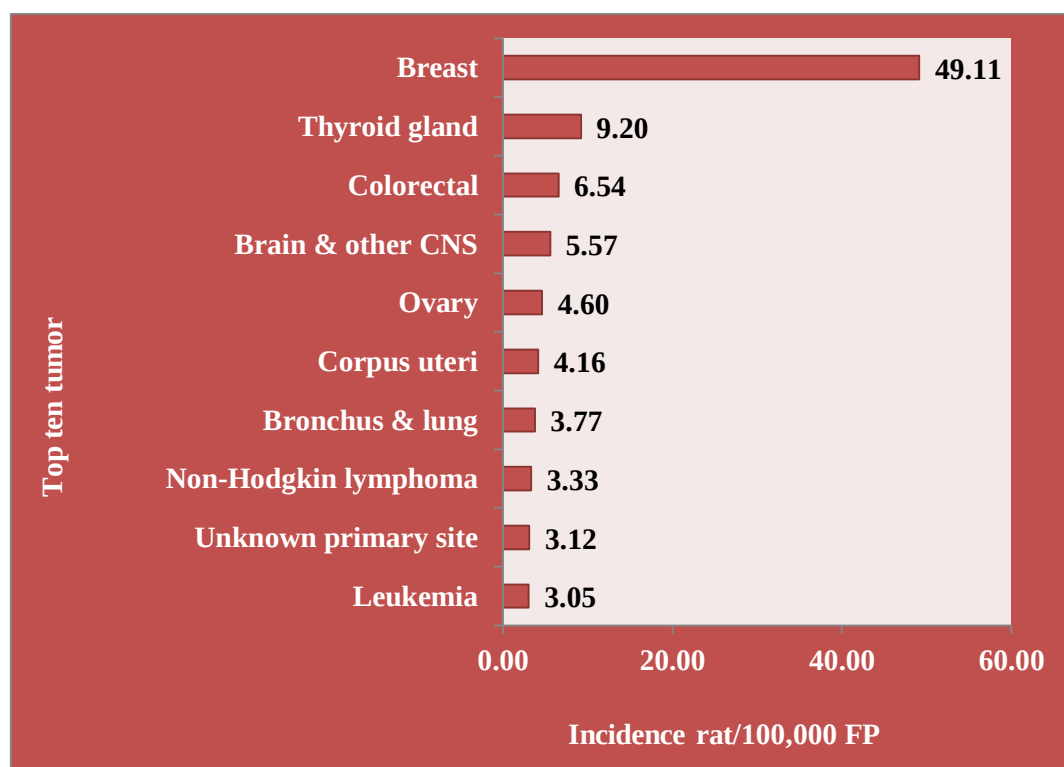


Table No.; (33) Number, percentage and the crude incidence rate/100,000 Baghdad population of cancer by ICD-O code, site of tumor and gender, in Baghdad, Iraq, 2021

ICD-O code/ site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip	2	0.02	0.02	2	0.02	0.02	4	0.05	0.05
C01 / Tongue, base	1	0.01	0.01	5	0.06	0.06	6	0.07	0.07
C02 / Tongue, other	12	0.14	0.14	18	0.21	0.21	30	0.34	0.34
C03 / Gum	0	0.00	0.00	2	0.02	0.02	2	0.02	0.02
C04 / Mouth - floor	1	0.01	0.01	4	0.05	0.05	5	0.06	0.06
C05 / Mouth - palate	3	0.03	0.03	1	0.01	0.01	4	0.05	0.05
C06 / Mouth - other	1	0.01	0.01	3	0.03	0.03	4	0.05	0.05
C07 / Parotid gland	9	0.10	0.10	12	0.14	0.14	21	0.24	0.24
C08 / Mouth glands	12	0.14	0.14	8	0.09	0.09	20	0.23	0.23
C10 / Oropharynx	2	0.02	0.02	7	0.08	0.08	9	0.10	0.10
C11 / Nasopharynx	17	0.19	0.19	33	0.38	0.38	50	0.57	0.57
C12 / Pyriform	0	0.00	0.00	2	0.02	0.02	2	0.02	0.02
C13 / Hypopharynx	0	0.00	0.00	1	0.01	0.01	1	0.01	0.01
C14 / Pharynx	3	0.03	0.03	4	0.05	0.05	7	0.08	0.08
C15 / Oesophagus	16	0.18	0.18	30	0.34	0.34	46	0.53	0.52
C16 / Stomach	125	1.43	1.42	128	1.47	1.46	253	2.90	2.88
C17 / Small intestine	19	0.22	0.22	16	0.18	0.18	35	0.40	0.40
C18 / Colon	193	2.21	2.20	202	2.31	2.30	395	4.52	4.50
C19 / Recto sigmoid Junction	7	0.08	0.08	5	0.06	0.06	12	0.14	0.14
C20 / Rectum	83	0.95	0.95	127	1.45	1.45	210	2.40	2.39
C21 / Anus & anal canal	2	0.02	0.02	8	0.09	0.09	10	0.11	0.11
C22 / Liver & bile ducts	82	0.94	0.93	130	1.49	1.48	212	2.43	2.41
C23 / Gallbladder	33	0.38	0.38	24	0.27	0.27	57	0.65	0.65
C24 / Biliary tract , other	14	0.16	0.16	13	0.15	0.15	27	0.31	0.31
C25 / Pancreas	98	1.12	1.12	142	1.63	1.62	240	2.75	2.73
C26 / Other digestive organs	11	0.13	0.13	8	0.09	0.09	19	0.22	0.22
C30 / Nasal cavity	10	0.11	0.11	5	0.06	0.06	15	0.17	0.17
C31 / Accessory sinus	1	0.01	0.01	6	0.07	0.07	7	0.08	0.08
C32 / Larynx	11	0.13	0.13	92	1.05	1.05	103	1.18	1.17
C33 / Trachea	0	0.00	0.00	1	0.01	0.01	1	0.01	0.01
C34 / Bronchus & lung	163	1.87	1.86	400	4.58	4.56	563	6.45	6.41
C37 / Thymus	1	0.01	0.01	3	0.03	0.03	4	0.05	0.05
C38 / Heart, Mediastinum, pleura	15	0.17	0.17	13	0.15	0.15	28	0.32	0.32
C39 / Other respiratory & thoracic	1	0.01	0.01	0	0.00	0.00	1	0.01	0.01
C40 / Bone & cartilage, limbs	22	0.25	0.25	32	0.37	0.36	54	0.62	0.62

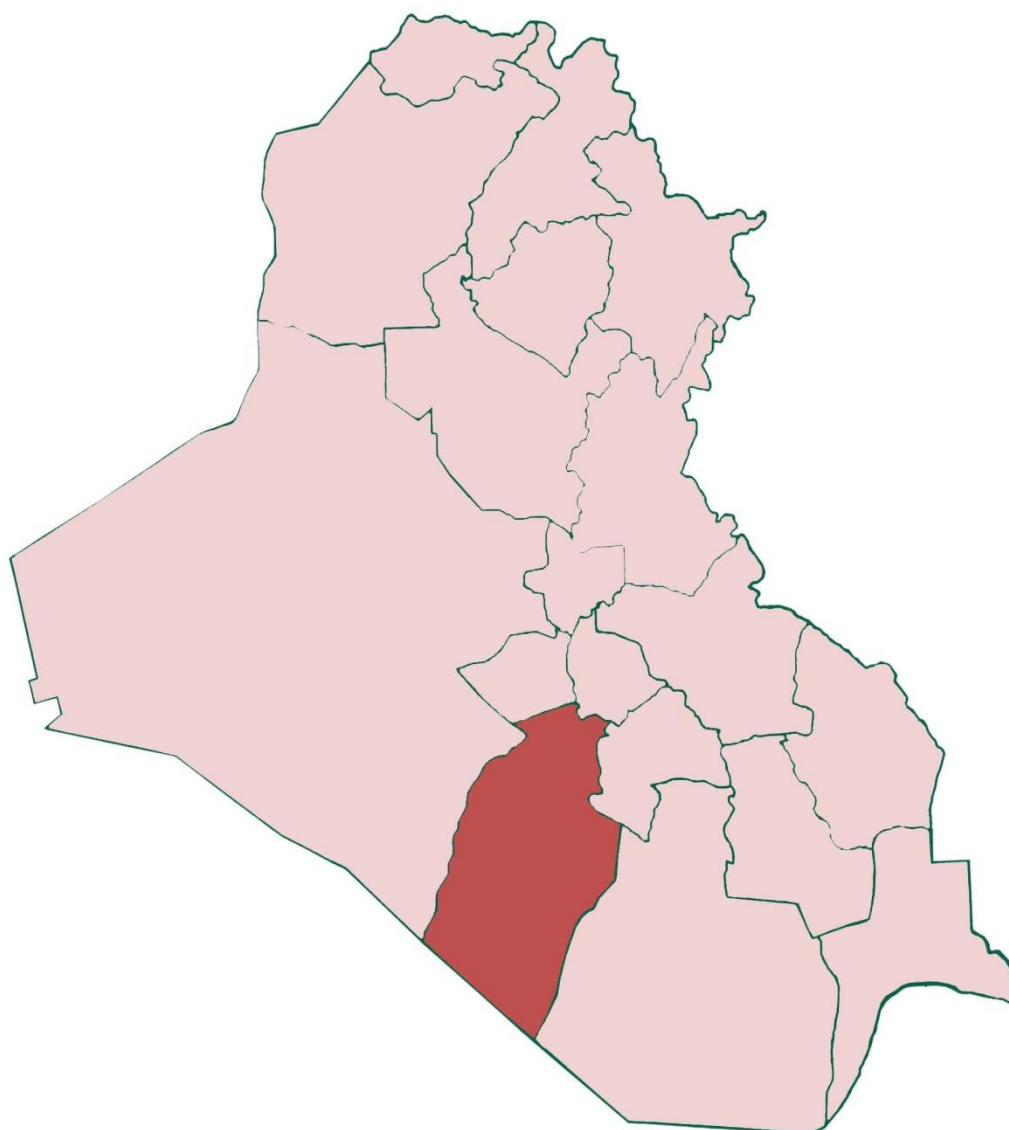
ICD-O code/ site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C41 / Bones & cartilage, other		23	0.26	0.26	25	0.29	0.28	48	0.55	0.55
C42 / Reticulo endothelial & Hematopoietic System	Chronic Myelo proliferative disorders	1	0.01	0.01	0	0.00	0.00	1	0.01	0.01
	Immuno proliferative diseases	1	0.01	0.01	0	0.00	0.00	1	0.01	0.01
	Leukemia	132	1.51	1.50	170	1.95	1.94	302	3.46	3.44
	Myelodys plastic syndromes	0	0.00	0.00	2	0.02	0.02	2	0.02	0.02
	Plasma cell tumor	18	0.21	0.21	16	0.18	0.18	34	0.39	0.39
C44 / Skin, other		103	1.18	1.17	133	1.52	1.51	236	2.70	2.69
C47 /Nerves system		6	0.07	0.07	6	0.07	0.07	12	0.14	0.14
C48 / Peritoneum		7	0.08	0.08	7	0.08	0.08	14	0.16	0.16
C49 / Soft tissues		55	0.63	0.63	57	0.65	0.65	112	1.28	1.28
C50 / Breast		2124	24.32	24.19	29	0.33	0.33	2153	24.66	24.52
C51 / Vulva		5	0.06	0.12	0	0.00	0.00	5	0.06	0.12
C52 / Vagina		4	0.05	0.09	0	0.00	0.00	4	0.05	0.09
C53 / Cervix uteri		79	0.90	1.83	0	0.00	0.00	79	0.90	1.83
C54 / Corpus uteri		180	2.06	4.16	0	0.00	0.00	180	2.06	4.16
C55 / Uterus unspecified		131	1.50	3.03	0	0.00	0.00	131	1.50	3.03
C56 / Ovary		199	2.28	4.60	0	0.00	0.00	199	2.28	4.60
C57 / Female genital - other		2	0.02	0.05	0	0.00	0.00	2	0.02	0.05
C58 / Placenta		13	0.15	0.30	0	0.00	0.00	13	0.15	0.30
C61 / Prostate		0	0.00	0.00	312	3.57	7.00	312	3.57	7.00
C62 / Testis		0	0.00	0.00	44	0.50	0.99	44	0.50	0.99
C63 / Male genital - other		0	0.00	0.00	1	0.01	0.02	1	0.01	0.02
C64 / Kidney		88	1.01	1.00	137	1.57	1.56	225	2.58	2.56
C67 / Urinary bladder		90	1.03	1.03	283	3.24	3.22	373	4.27	4.25
C68 / Urinary organs, other		0	0.00	0.00	2	0.02	0.02	2	0.02	0.02
C69 / Eye & Adnexa		7	0.08	0.08	7	0.08	0.08	14	0.16	0.16
C70 / Meninges		49	0.56	0.56	14	0.16	0.16	63	0.72	0.72
C71 / Brain		180	2.06	2.05	253	2.90	2.88	433	4.96	4.93
C72 / Nervous system, other		4	0.05	0.05	8	0.09	0.09	12	0.14	0.14
C73 / Thyroid gland		398	4.56	4.53	86	0.98	0.98	484	5.54	5.51
C74 / Adrenal gland		5	0.06	0.06	9	0.10	0.10	14	0.16	0.16
C75 / Endocrine gland, other		9	0.10	0.10	11	0.13	0.13	20	0.23	0.23

ICD-O code/ site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C76 / Unspecified site		28	0.32	0.32	18	0.21	0.21	46	0.53	0.52
C77 / Lymph node	Hodgkin Lymphoma	65	0.74	0.74	74	0.85	0.84	139	1.59	1.58
	Non-Hodgkin Lymphoma	144	1.65	1.64	184	2.11	2.10	328	3.76	3.74
C80 / Unknown primary site		135	1.55	1.54	102	1.17	1.16	237	2.71	2.70
Total		5255	60.18	59.85	3477	39.82	39.60	8732	100.00	99.45

Note:

- * From C51 to C58 the incidence rate was calculated from the female population.
- * From C61 to C63 the incidence rate was calculated from the male population.

Al-Najaf
Populations Number : 1589961
Cancer Cases Number : 1472
Incidence Rate: 92.58/100,000 Al-Najaf Populations



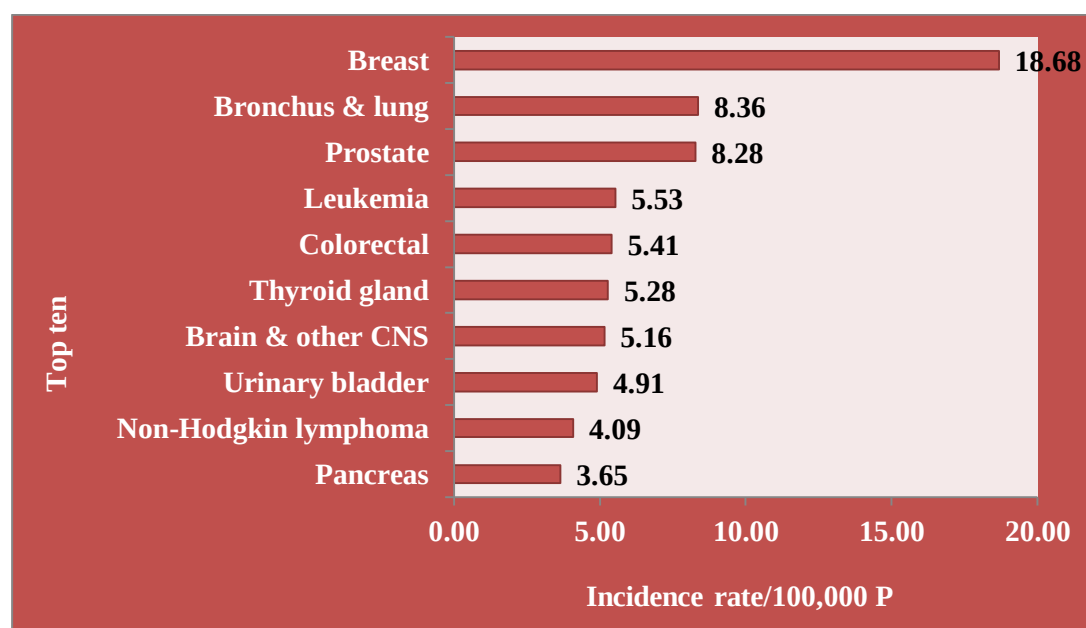
3.4.5. Al-Najaf governorate

Table No.; (34), Figure No.; (26) shows that the highest number, percentage and crude incidence rate/100,000 P of the top ten cancer was breast cancer and the lowest pancreas cancer.

Table No.; (34) Number and percentage of the top ten cancers in Al-Najaf, Iraq, 2021

Top ten	No.	%
1 Breast	297	28.64
2 Bronchus & lung	133	12.83
3 Leukemia	88	8.49
4 Colorectal	86	8.29
5 Thyroid gland	84	8.10
6 Brain & other CNS	82	7.91
7 Urinary bladder	78	7.52
8 Prostate	66	6.36
9 Non-Hodgkin lymphoma	65	6.27
10 Pancreas	58	5.59
Total top ten	1037	100.00%

Figure No.; (26) Crude incidence rate of the top ten cancers in Al-Najaf /100,000 Al-Najaf populations, Iraq, 2021



The prostate incidence rate is calculated from the male populations.

Table No.; (35), Figure No.; (27) shows that the highest number, percentage and crude incidence rate/100,000 MP of the top ten cancer in male was bronchus & lung cancer and the lowest kidney cancer.

Table No.; (35) Distribution of the top ten cancers in males, Al-Najaf, Iraq, 2021

Top ten	No.	%
1 Bronchus & lung	87	17.86
2 Prostate	66	13.55
3 Urinary bladder	59	12.11
4 Leukemia	54	11.09
5 Colorectal	49	10.06
6 Brain & other CNS	47	9.65
7 Non-Hodgkin lymphoma	40	8.21
8 Pancreas	30	6.16
9 Skin, other	30	6.16
10 Kidney	25	5.13
Total top ten	487	100.00%

Figure No.; (27) Crude incidence rate of the top ten cancers in males / 100,000 male populations, Al-Najaf, Iraq, 2021

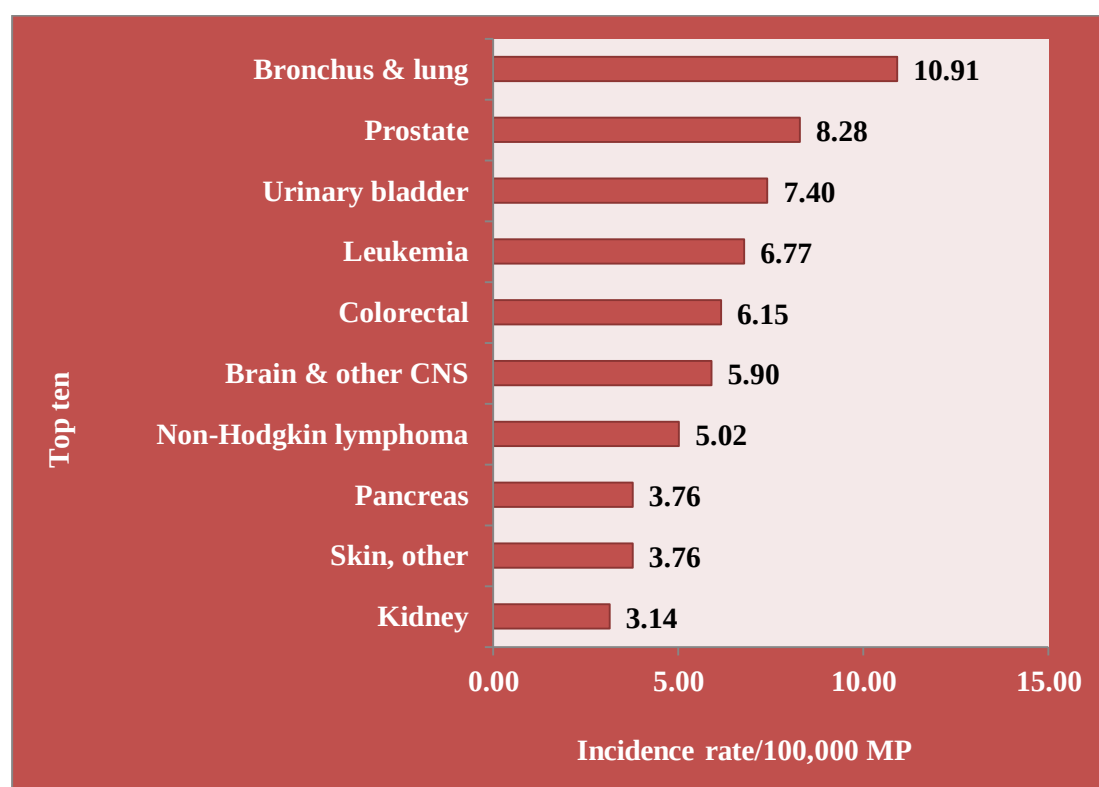


Table No.; (36), Figure No.; (28) shows that the highest number, percentage and crude incidence rate/100,000 FP of the top ten cancer in female was breast cancer and the lowest Non-Hodgkin lymphoma.

Table No.; (36) Number and percentage of the top ten cancers in females, Al-Najaf, Iraq, 2021

Top ten	No.	%
1 Breast	293	46.88
2 Thyroid gland	61	9.76
3 Bronchus & lung	46	7.36
4 Ovary	38	6.08
5 Colorectal	37	5.92
6 Brain & other CNS	35	5.6
7 Leukemia	34	5.44
8 Pancreas	28	4.48
9 Stomach	28	4.48
10 Non-Hodgkin lymphoma	25	4.00
Total top ten	625	100.00%

Figure No.; (28) Crude incidence rate of the top ten cancers in females / 100,000 female populations, Al-Najaf, Iraq, 2021

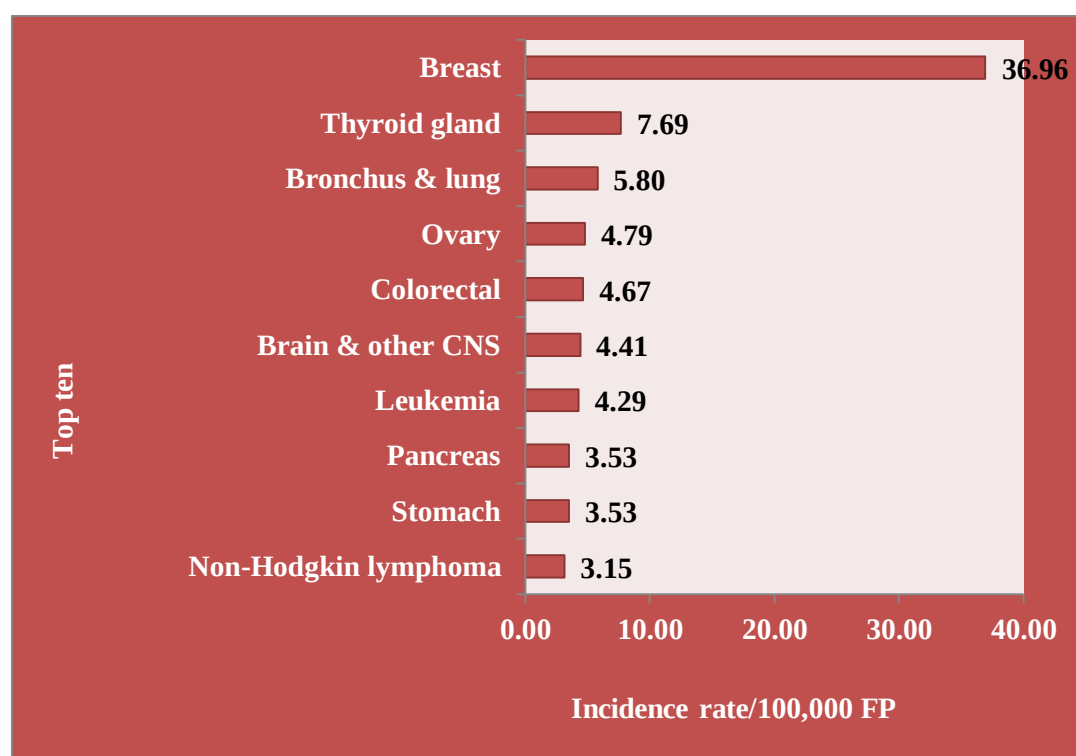


Table No.; (37) Number, percentage and the crude incidence rate/100,000 Al-Najaf population of cancer by ICD-O code, site of tumor and gender, in Al-Najaf, Iraq, 2021

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C02 / Tongue, other		2	0.14	0.13	0	0.00	0.00	2	0.14	0.13
C06 / Mouth - other		1	0.07	0.06	0	0.00	0.00	1	0.07	0.06
C07 / Parotid gland		1	0.07	0.06	0	0.00	0.00	1	0.07	0.06
C11 / Nasopharynx		2	0.14	0.13	7	0.48	0.44	9	0.61	0.57
C12 / Pyriform		0	0.00	0.00	1	0.07	0.06	1	0.07	0.06
C13 / Hypopharynx		1	0.07	0.06	0	0.00	0.00	1	0.07	0.06
C15 / Oesophagus		4	0.27	0.25	1	0.07	0.06	5	0.34	0.31
C16 / Stomach		28	1.90	1.76	18	1.22	1.13	46	3.13	2.89
C17 / Small intestine		1	0.07	0.06	2	0.14	0.13	3	0.20	0.19
C18 / Colon		29	1.97	1.82	32	2.17	2.01	61	4.14	3.84
C19 / Recto sigmoid Junction		2	0.14	0.13	2	0.14	0.13	4	0.27	0.25
C20 / Rectum		6	0.41	0.38	15	1.02	0.94	21	1.43	1.32
C21 / Anus & anal canal		1	0.07	0.06	1	0.07	0.06	2	0.14	0.13
C22 / Liver & bile ducts		14	0.95	0.88	12	0.82	0.75	26	1.77	1.64
C23 / Gallbladder		2	0.14	0.13	2	0.14	0.13	4	0.27	0.25
C24 / Biliary tract , other		2	0.14	0.13	1	0.07	0.06	3	0.20	0.19
C25 / Pancreas		28	1.90	1.76	30	2.04	1.89	58	3.94	3.65
C26 / Other digestive organs		1	0.07	0.06	3	0.20	0.19	4	0.27	0.25
C32 / Larynx		6	0.41	0.38	15	1.02	0.94	21	1.43	1.32
C34 / Bronchus & lung		46	3.13	2.89	87	5.91	5.47	133	9.04	8.36
C37 / Thymus		0	0.00	0.00	2	0.14	0.13	2	0.14	0.13
C38 / Heart, Mediastinum, pleura		2	0.14	0.13	1	0.07	0.06	3	0.20	0.19
C40 / Bone & cartilage, limbs		4	0.27	0.25	1	0.07	0.06	5	0.34	0.31
C41 / Bones & cartilage, other		9	0.61	0.57	10	0.68	0.63	19	1.29	1.19
C42 / Reticulo endothelial & Hemato poietic System	Chronic Myeloproliferative disorders	0	0.00	0.00	1	0.07	0.06	1	0.07	0.06
	Immunoprolifrativ diseases	1	0.07	0.06	0	0.00	0.00	1	0.07	0.06
	Leukemia	34	2.31	2.14	54	3.67	3.40	88	5.98	5.53
	Plasma cell tumor	5	0.34	0.31	16	1.09	1.01	21	1.43	1.32
C44 / Skin, other		20	1.36	1.26	30	2.04	1.89	50	3.40	3.14
C48 / Peritoneum		1	0.07	0.06	1	0.07	0.06	2	0.14	0.13
C49 / Soft tissues		10	0.68	0.63	10	0.68	0.63	20	1.36	1.26
C50 / Breast		293	19.90	18.43	4	0.27	0.25	297	20.18	18.68
C53 / Cervix uteri		11	0.75	1.39	0	0.00	0.00	11	0.75	1.39
C54 / Corpus uteri		24	1.63	3.03	0	0.00	0.00	24	1.63	3.03
C55 / Uterus unspecified		13	0.88	1.64	0	0.00	0.00	13	0.88	1.64
C56 / Ovary		38	2.58	4.79	0	0.00	0.00	38	2.58	4.79
C60 / Penis		0	0.00	0.00	1	0.07	0.13	1	0.07	0.13

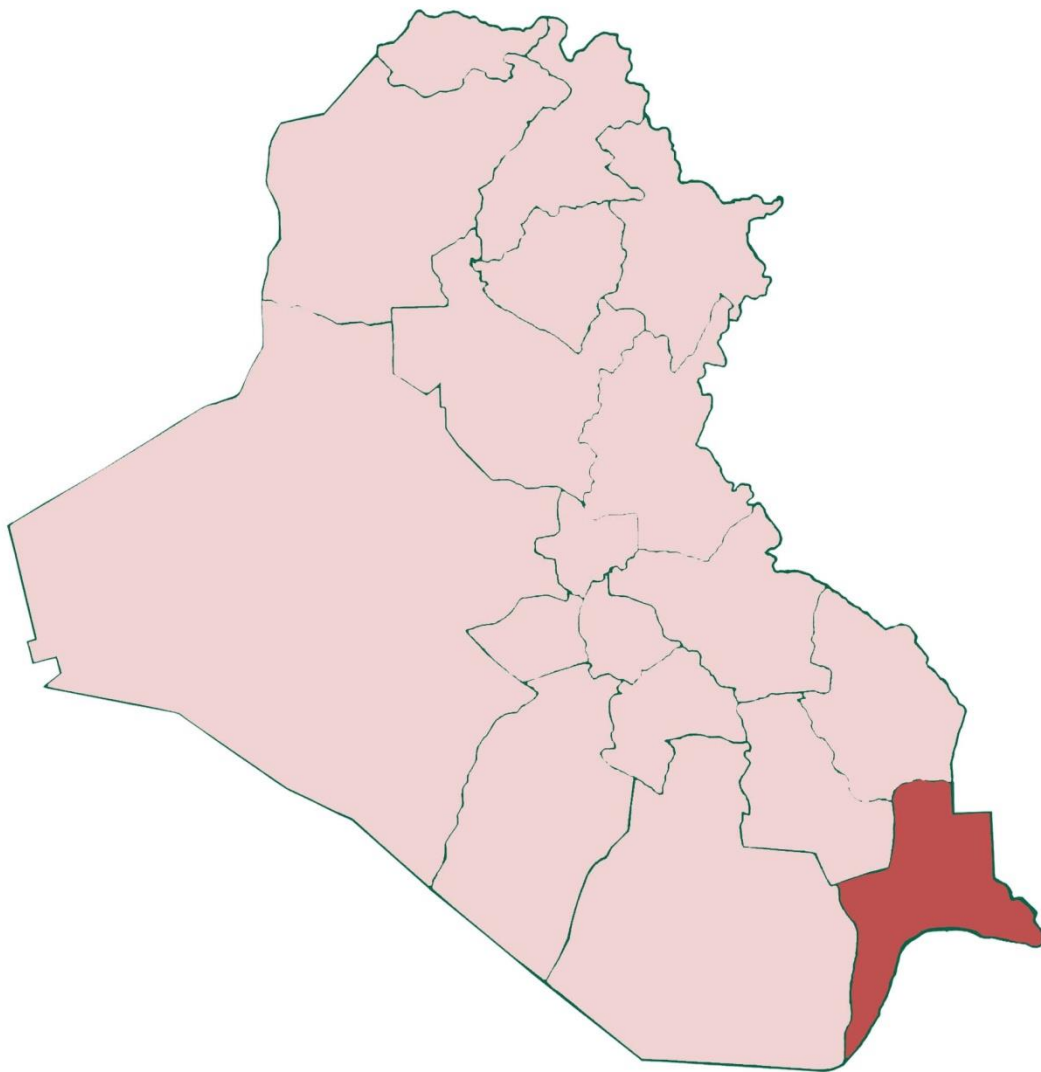
ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C61 / Prostate		0	0.00	0.00	66	4.48	8.28	66	4.48	8.28
C62 / Testis		0	0.00	0.00	17	1.15	2.13	17	1.15	2.13
C64 / Kidney		15	1.02	0.94	25	1.70	1.57	40	2.72	2.52
C65 / Pelvis		0	0.00	0.00	1	0.07	0.06	1	0.07	0.06
C67 / Urinary bladder		19	1.29	1.19	59	4.01	3.71	78	5.30	4.91
C69 / Eye & Adnexa		0	0.00	0.00	1	0.07	0.06	1	0.07	0.06
C70 / Meninges		2	0.14	0.13	3	0.20	0.19	5	0.34	0.31
C71 / Brain		33	2.24	2.08	42	2.85	2.64	75	5.10	4.72
C72 / Nervous system, other		0	0.00	0.00	1	0.07	0.06	1	0.07	0.06
C73 / Thyroid gland		61	4.14	3.84	23	1.56	1.45	84	5.71	5.28
C74 / Adrenal gland		5	0.34	0.31	1	0.07	0.06	6	0.41	0.38
C75 / Endocrine gland, other		0	0.00	0.00	1	0.07	0.06	1	0.07	0.06
C76 / Unspecified site		1	0.07	0.06	1	0.07	0.06	2	0.14	0.13
C77 / Lymph node	Hodgkin Lymphoma	4	0.27	0.25	16	1.09	1.01	20	1.36	1.26
	Non-Hodgkin Lymphoma	25	1.70	1.57	40	2.72	2.52	65	4.42	4.09
C80 / Unknown primary site		7	0.48	0.44	1	0.07	0.06	8	0.54	0.50
Total		814	55.30	51.20	658	44.70	41.38	1472	100.00	92.58

Note:

* From C53 to C56 the incidence rate was calculated from the female population.

* From C60 to C62 the incidence rate was calculated from the male population.

Al-Basrah
Populations Number : 3142449
Cancer Cases Number : 2858
Incidence Rate: 90.95/100,000 Al-Basrah Populations



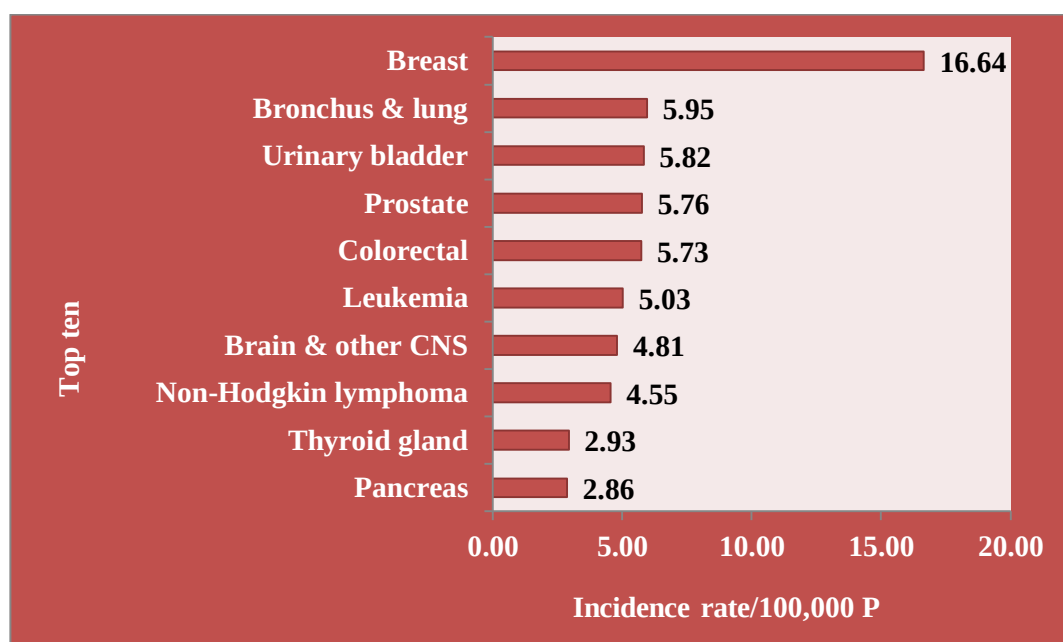
3.4.6. Al-Basrah governorate

Table No.; (38), Figure No.; (29) shows that the highest number, percentage and crude incidence rate/100,000 P of the top ten cancer was breast and the lowest pancreas cancer.

Table No.; (38) Number and percentage of the top ten cancers in Al-Basrah, Iraq, 2021

Top ten	No.	%
1 Breast	523	29.09
2 Bronchus & Lung	187	10.40
3 Urinary Bladder	183	10.18
4 Colorectal	180	10.01
5 Leukemia	158	8.79
6 Brain & Other CNS	151	8.40
7 Non-Hodgkin Lymphoma	143	7.95
8 Thyroid Gland	92	5.12
9 Prostate	91	5.06
10 Pancreas	90	5.01
Total top ten	1798	100.00%

Figure No.; (29) Crude incidence rate of the top ten cancers in Al-Basrah /100,000 Al-Basrah populations, Iraq, 2021



The prostate incidence rate is calculated from the male populations.

Table No.; (39), Figure No.; (30) shows that the highest number, percentage and crude incidence rate/100,000 MP of the top ten cancer in male was bronchus & lung cancer and the lowest kidney cancer.

**Table No.; (39) Number and percentage of the top ten cancers in males,
Al-Basrah, Iraq, 2021**

Top ten		No.	%
1	Urinary bladder	140	16.41
2	Bronchus & lung	125	14.65
3	Colorectal	95	11.14
4	Prostate	91	10.67
5	Brain & other CNS	86	10.08
6	Leukemia	84	9.85
7	Non-Hodgkin lymphoma	82	9.61
8	Skin, other	52	6.10
9	Pancreas	51	5.98
10	Kidney	47	5.51
Total top ten		853	100.00%

**Figure No.; (30) Crude incidence rate of the top ten cancers in males /
100,000 male populations, Al-Basrah, Iraq, 2021**

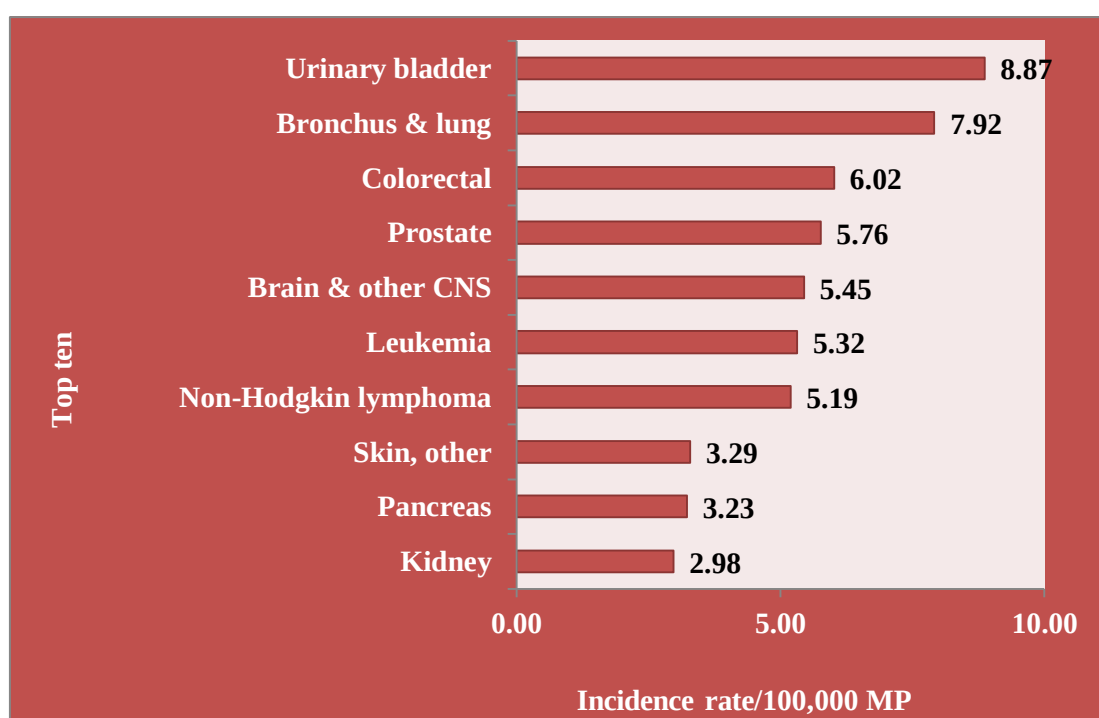


Table No.; (40), Figure No.; (31) shows that the highest number, percentage and crude incidence rate/100,000 FP of the top ten cancer in female was breast cancer and the lowest cervix uteri cancer.

**Table No.; (40) Number and percentage of the top ten cancers in females,
Al-Basrah, Iraq, 2021**

Top ten	No.	%
1 Breast	514	45.17
2 Colorectal	85	7.47
3 Uterus unspecified	82	7.21
4 Ovary	79	6.94
5 Leukemia	74	6.50
6 Thyroid gland	70	6.15
7 Brain & other CNS	65	5.71
8 Bronchus & lung	62	5.45
9 Non-Hodgkin lymphoma	61	5.36
10 Cervix uteri	46	4.04
Total top ten	1138	100.00%

**Figure No.; (31) Crude incidence rate of the top ten cancers in females /
100,000 female populations, Al-Basrah, Iraq, 2021**

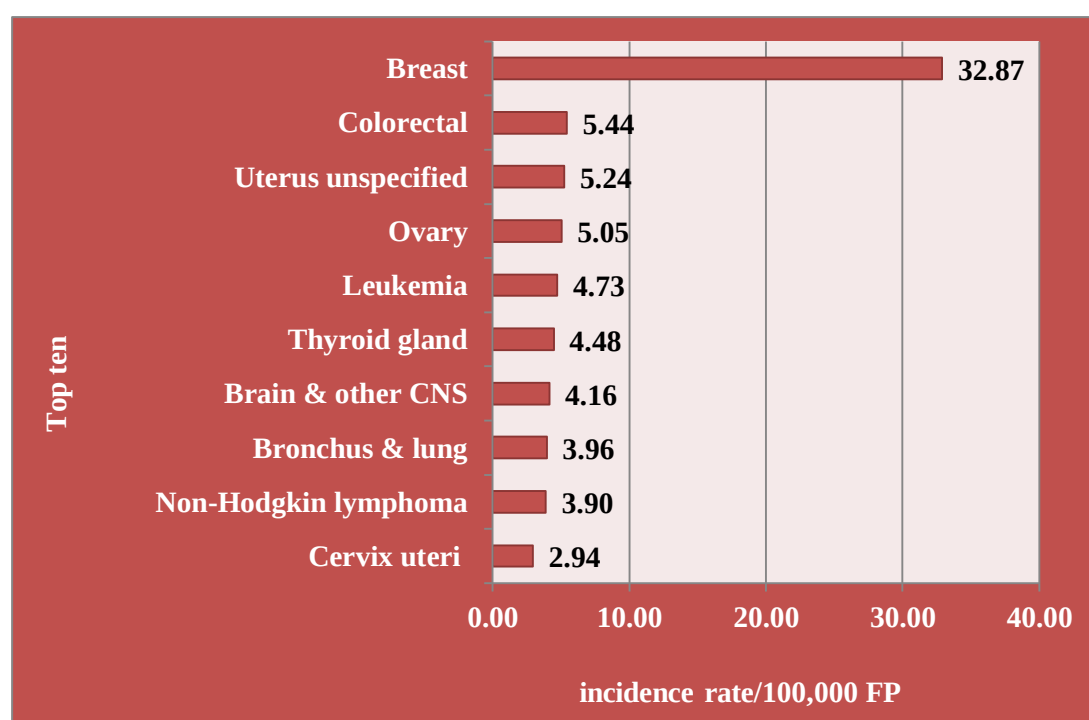


Table No.; (41) Number, percentage and the crude incidence rate/100,000 Al-Basrah population of cancer by ICD-O code, site of tumor and gender, in Al-Basrah, Iraq, 2021

ICD-O code/site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip	0	0.00	0.00	1	0.03	0.03	1	0.03	0.03
C02 / Tongue, other	7	0.24	0.22	3	0.10	0.10	10	0.35	0.32
C03 / Gum	1	0.03	0.03	0	0.00	0.00	1	0.03	0.03
C04 / Mouth - floor	1	0.03	0.03	0	0.00	0.00	1	0.03	0.03
C05 / Mouth - palate	1	0.03	0.03	0	0.00	0.00	1	0.03	0.03
C06 / Mouth - other	4	0.14	0.13	2	0.07	0.06	6	0.21	0.19
C07 / Parotid gland	3	0.10	0.10	1	0.03	0.03	4	0.14	0.13
C08 / Mouth glands	3	0.10	0.10	4	0.14	0.13	7	0.24	0.22
C09 / Tonsil	2	0.07	0.06	0	0.00	0.00	2	0.07	0.06
C10 / Oropharynx	0	0.00	0.00	1	0.03	0.03	1	0.03	0.03
C11 / Nasopharynx	8	0.28	0.25	8	0.28	0.25	16	0.56	0.51
C13 / Hypopharynx	1	0.03	0.03	1	0.03	0.03	2	0.07	0.06
C14 / Pharynx	0	0.00	0.00	1	0.03	0.03	1	0.03	0.03
C15 / Oesophagus	7	0.24	0.22	7	0.24	0.22	14	0.49	0.45
C16 / Stomach	41	1.43	1.30	47	1.64	1.50	88	3.08	2.80
C17 / Small intestine	7	0.24	0.22	6	0.21	0.19	13	0.45	0.41
C18 / Colon	58	2.03	1.85	57	1.99	1.81	115	4.02	3.66
C19 / Recto sigmoid Junction	3	0.10	0.10	3	0.10	0.10	6	0.21	0.19
C20 / Rectum	24	0.84	0.76	35	1.22	1.11	59	2.06	1.88
C21 / Anus & anal canal	2	0.07	0.06	0	0.00	0.00	2	0.07	0.06
C22 / Liver & bile ducts	14	0.49	0.45	19	0.66	0.60	33	1.15	1.05
C23 / Gallbladder	17	0.59	0.54	9	0.31	0.29	26	0.91	0.83
C24 / Biliary tract , other	12	0.42	0.38	13	0.45	0.41	25	0.87	0.80
C25 / Pancreas	39	1.36	1.24	51	1.78	1.62	90	3.15	2.86
C26 / Other digestive organs	1	0.03	0.03	1	0.03	0.03	2	0.07	0.06
C30 / Nasal cavity	3	0.10	0.10	0	0.00	0.00	3	0.10	0.10
C31 / Accessory sinus	2	0.07	0.06	0	0.00	0.00	2	0.07	0.06
C32 / Larynx	6	0.21	0.19	26	0.91	0.83	32	1.12	1.02
C34 / Bronchus & lung	62	2.17	1.97	125	4.37	3.98	187	6.54	5.95
C37 / Thymus	1	0.03	0.03	4	0.14	0.13	5	0.17	0.16
C38 / Heart, Mediastinum, pleura	1	0.03	0.03	5	0.17	0.16	6	0.21	0.19
C40 / Bone & cartilage, limbs	5	0.17	0.16	10	0.35	0.32	15	0.52	0.48
C41 / Bones & cartilage, other	7	0.24	0.22	7	0.24	0.22	14	0.49	0.45

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C42 / Reticulo endothelial & Hematopoietic System	Chronic Myelo proliferative disorders	10	0.35	0.32	17	0.59	0.54	27	0.94	0.86
	Immuno proliferative diseases	0	0.00	0.00	1	0.03	0.03	1	0.03	0.03
	Leukemia	74	2.59	2.35	84	2.94	2.67	158	5.53	5.03
	Myelodys plastic syndromes	16	0.56	0.51	24	0.84	0.76	40	1.40	1.27
	Plasma cell tumor	11	0.38	0.35	23	0.80	0.73	34	1.19	1.08
C44 / Skin, other		34	1.19	1.08	52	1.82	1.65	86	3.01	2.74
C47 /Nerves system		0	0.00	0.00	1	0.03	0.03	1	0.03	0.03
C48 / Peritoneum		1	0.03	0.03	1	0.03	0.03	2	0.07	0.06
C49 / Soft tissues		26	0.91	0.83	18	0.63	0.57	44	1.54	1.40
C50 / Breast		514	17.98	16.36	9	0.31	0.29	523	18.30	16.64
C51 / Vulva		3	0.10	0.19	0	0.00	0.00	3	0.10	0.19
C52 / Vagina		1	0.03	0.06	0	0.00	0.00	1	0.03	0.06
C53 / Cervix uteri		46	1.61	2.94	0	0.00	0.00	46	1.61	2.94
C54 / Corpus uteri		8	0.28	0.51	0	0.00	0.00	8	0.28	0.51
C55 / Uterus unspecified		82	2.87	5.24	0	0.00	0.00	82	2.87	5.24
C56 / Ovary		79	2.76	5.05	0	0.00	0.00	79	2.76	5.05
C57 / Female genital - other		1	0.03	0.06	0	0.00	0.00	1	0.03	0.06
C58 / Placenta		7	0.24	0.45	0	0.00	0.00	7	0.24	0.45
C60 / Penis		0	0.00	0.00	2	0.07	0.13	2	0.07	0.13
C61 / Prostate		0	0.00	0.00	91	3.18	5.76	91	3.18	5.76
C62 / Testis		0	0.00	0.00	14	0.49	0.89	14	0.49	0.89
C63 / Male genital - other		0	0.00	0.00	1	0.03	0.06	1	0.03	0.06
C64 / Kidney		29	1.01	0.92	47	1.64	1.50	76	2.66	2.42
C66 / Ureter		0	0.00	0.00	1	0.03	0.03	1	0.03	0.03
C67 / Urinary bladder		43	1.50	1.37	140	4.90	4.46	183	6.40	5.82
C69 / Eye & Adnexa		3	0.10	0.10	5	0.17	0.16	8	0.28	0.25
C70 / Meninges		3	0.10	0.10	4	0.14	0.13	7	0.24	0.22
C71 / Brain		55	1.92	1.75	68	2.38	2.16	123	4.30	3.91
C72 / Nervous system, other		4	0.14	0.13	4	0.14	0.13	8	0.28	0.25
C73 / Thyroid gland		70	2.45	2.23	22	0.77	0.70	92	3.22	2.93
C74 / Adrenal gland		1	0.03	0.03	3	0.10	0.10	4	0.14	0.13

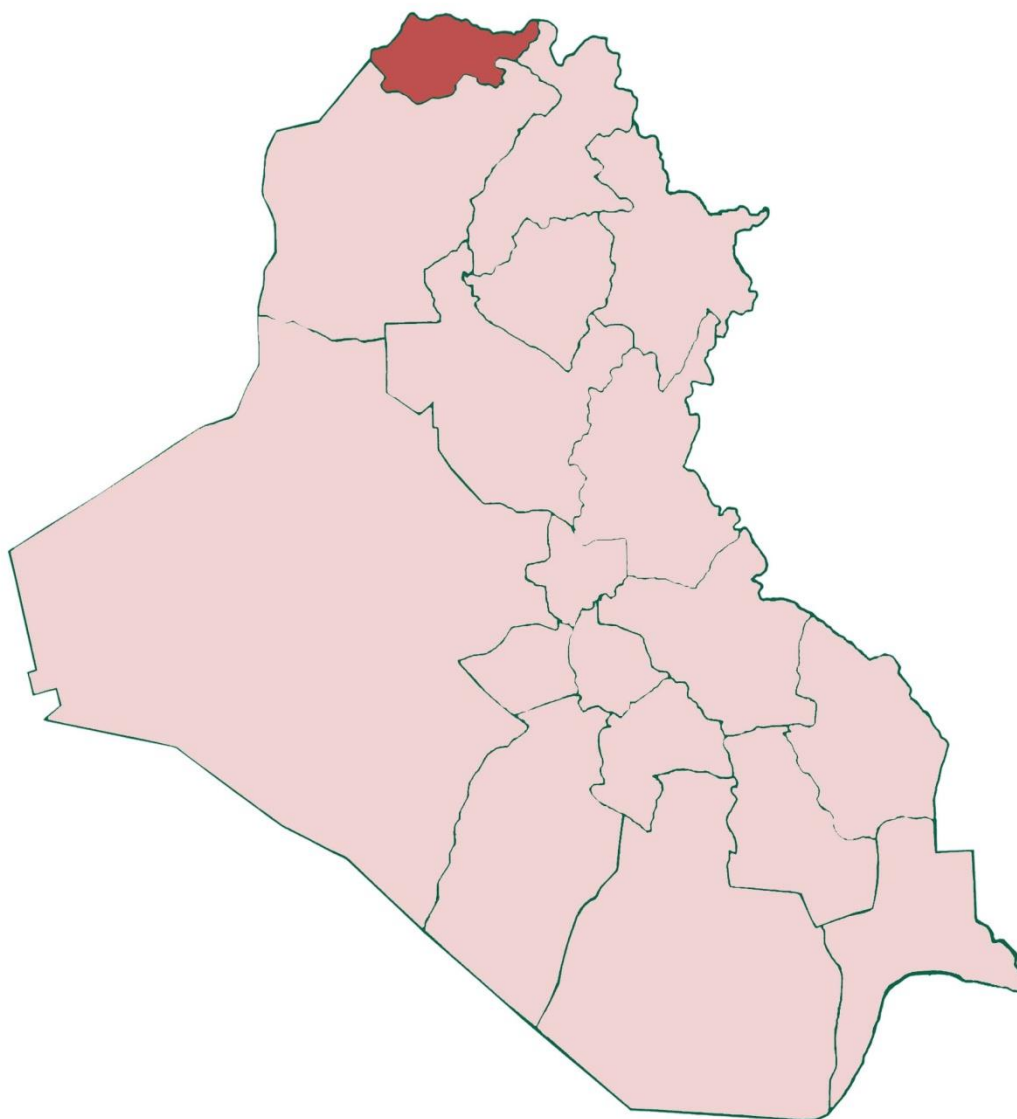
ICD-O code/site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C75 / Endocrine gland, other	3	0.10	0.10	11	0.38	0.35	14	0.49	0.45
C76 / Unspecified site	1	0.03	0.03	4	0.14	0.13	5	0.17	0.16
C77 / Hodgkin Lymphoma	39	1.36	1.24	40	1.40	1.27	79	2.76	2.51
Lymph node Non-Hodgkin Lymphoma	61	2.13	1.94	82	2.87	2.61	143	5.00	4.55
C80 / Unknown primary site	41	1.43	1.30	33	1.15	1.05	74	2.59	2.35
Total	1609	56.30	51.20	1249	43.70	39.75	2858	100.00	90.95

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.**

Duhok
Populations Number : 1396480
Cancer Cases Number : 1256
Incidence Rate: 89.94/100,000 Duhok Populations



3.4.7. Duhok governorate

Table No.; (42), Figure No.; (32) shows that the highest number, percentage and crude incidence rate/100,000 P of the top ten cancer was breast cancer and the lowest Non-Hodgkin lymphoma.

Table No.; (42) Number and percentage of the top ten cancers in Duhok, Iraq, 2021

Top ten	No.	%
1 Breast	226	25.25
2 Bronchus & lung	131	14.64
3 Colorectal	117	13.07
4 Skin, other	87	9.72
5 Leukemia	73	8.16
6 Thyroid gland	59	6.59
7 Brain & other CNS	58	6.48
8 Hodgkin lymphomas	52	5.81
9 Stomach	50	5.59
10 Non-Hodgkin lymphoma	42	4.69
Total top ten	895	100.00%

Figure No.; (32) Crude incidence rate of the top ten cancers in Duhok /100,000 Duhok populations, Iraq, 2021

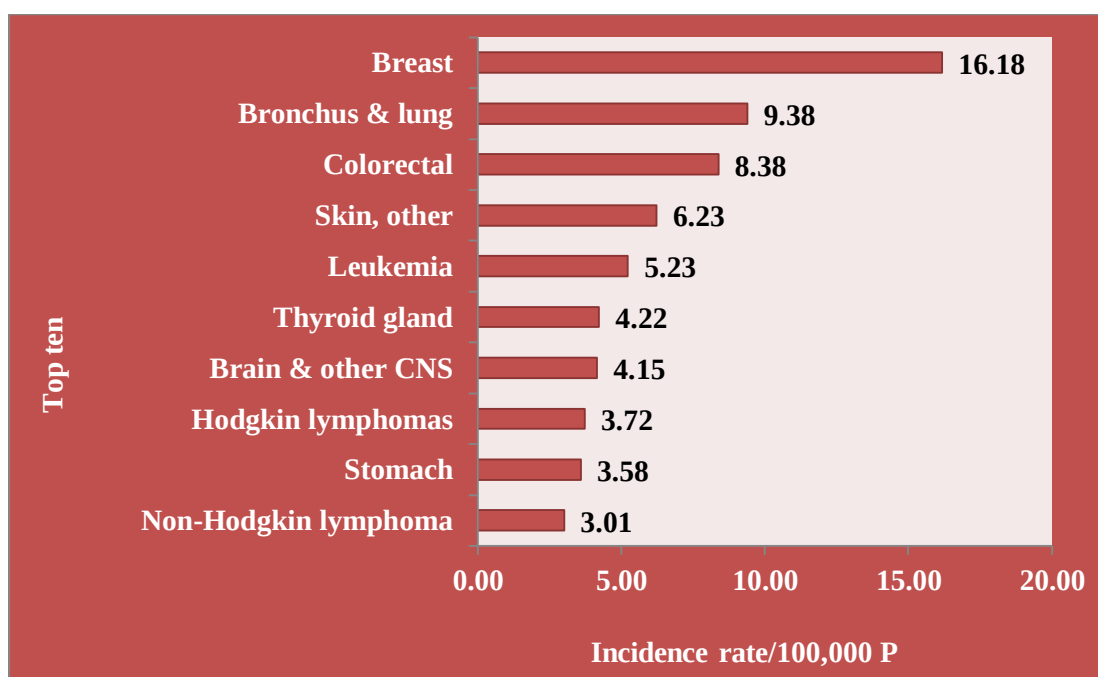


Table No.; (43), Figure No.; (33) shows that the highest number, percentage and crude incidence rate/100,000 MP of the top ten cancer in male was bronchus & lung cancer and the lowest Non-Hodgkin lymphoma.

Table No.; (43) Number and percentage of the top ten cancers in males, Duhok, Iraq, 2021

Top ten	No.	%
1 Bronchus & lung	110	25.40
2 Colorectal	60	13.86
3 Skin, other	46	10.62
4 Leukemia	41	9.47
5 Brain & other CNS	34	7.85
6 Hodgkin lymphomas	33	7.62
7 Urinary bladder	33	7.62
8 Prostate	28	6.47
9 Stomach	26	6.00
10 Non-Hodgkin lymphoma	22	5.08
Total top ten	433	100.00%

Figure No.; (33) Crude incidence rate of the top ten cancers in males / 100,000 male populations, Duhok, Iraq, 2021

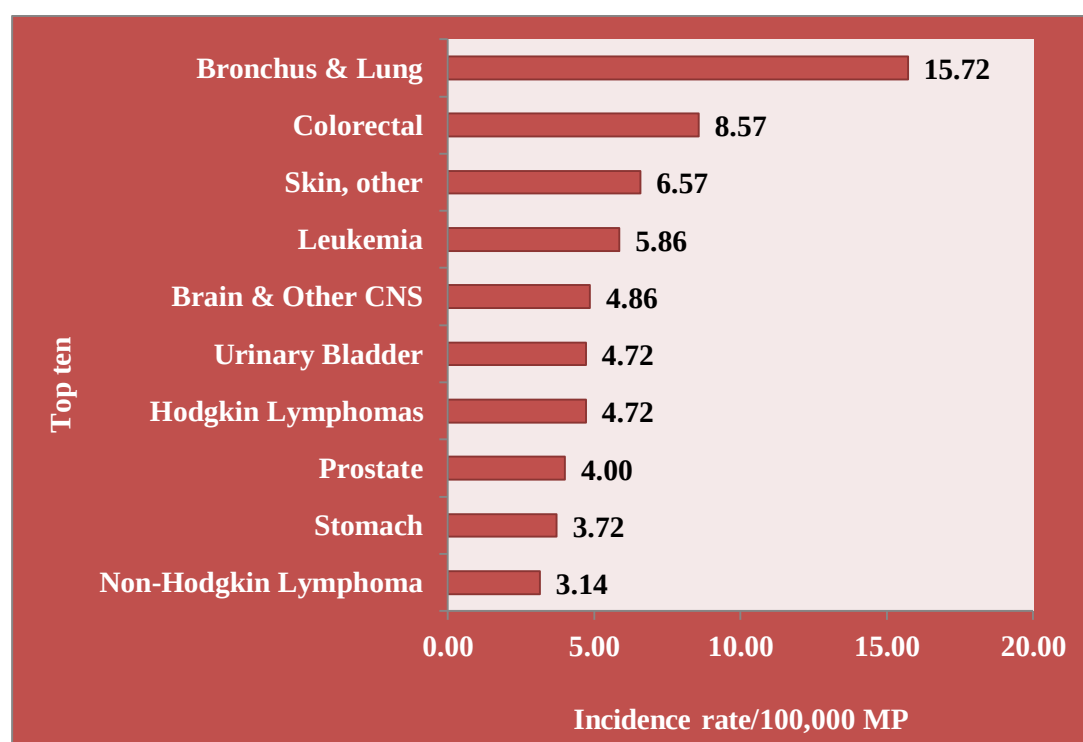


Table No.; (44), Figure No.; (34) shows that the highest number, percentage and crude incidence rate/100,000 FP of the top ten cancer in female was breast cancer and the lowest uterus unspecified cancer.

Table No.; (44) Number and percentage of the top ten cancers in females, Duhok, Iraq, 2021

Top ten	No.	%
1 Breast	221	42.58
2 Colorectal	57	10.98
3 Thyroid gland	51	9.83
4 Skin, other	41	7.90
5 Leukemia	32	6.17
6 Ovary	27	5.20
7 Brain & other CNS	24	4.62
8 Stomach	24	4.62
9 Bronchus & lung	21	4.05
10 Uterus unspecified	21	4.05
Total top ten	519	100.00%

Figure No.; (34) Crude incidence rate of the top ten cancers in females / 100,000 female populations, Duhok, Iraq, 2021

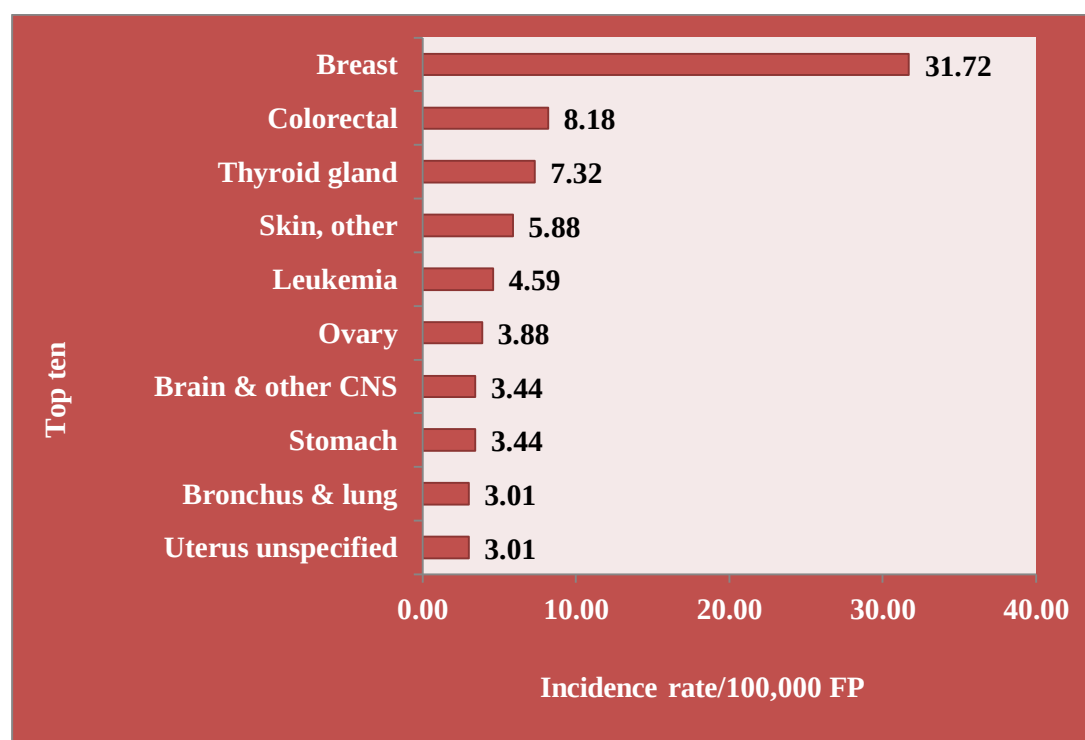


Table No.; (45) Number, percentage and the crude incidence rate/100,000 Duhok population of cancer by ICD-O code, site of tumor and gender, in Duhok, Iraq, 2021

ICD-O code/site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C00 /Lip	1	0.08	0.07	1	0.08	0.07	2	0.16	0.14
C01 / Tongue, base	0	0.00	0.00	1	0.08	0.07	1	0.08	0.07
C02 / Tongue, other	1	0.08	0.07	1	0.08	0.07	2	0.16	0.14
C07 / Parotid gland	1	0.08	0.07	1	0.08	0.07	2	0.16	0.14
C08 / Mouth glands	2	0.16	0.14	2	0.16	0.14	4	0.32	0.29
C09 / Tonsil	1	0.08	0.07	1	0.08	0.07	2	0.16	0.14
C11 / Nasopharynx	1	0.08	0.07	6	0.48	0.43	7	0.56	0.50
C13 / Hypopharynx	1	0.08	0.07	1	0.08	0.07	2	0.16	0.14
C14 / Pharynx	2	0.16	0.14	0	0.00	0.00	2	0.16	0.14
C15 / Oesophagus	6	0.47	0.43	6	0.48	0.43	12	0.96	0.86
C16 / Stomach	24	1.90	1.72	26	2.07	1.86	50	3.98	3.58
C17 / Small intestine	1	0.08	0.07	3	0.24	0.21	4	0.32	0.29
C18 / Colon	36	2.85	2.58	42	3.34	3.01	78	6.21	5.59
C20 / Rectum	21	1.66	1.50	18	1.43	1.29	39	3.11	2.79
C22 / Liver & bile ducts	11	0.87	0.79	9	0.72	0.64	20	1.59	1.43
C23 / Gallbladder	5	0.40	0.36	4	0.32	0.29	9	0.72	0.64
C24 / Biliary tract , other	0	0.00	0.00	1	0.08	0.07	1	0.08	0.07
C25 / Pancreas	11	0.87	0.79	17	1.35	1.22	28	2.23	2.01
C30 / Nasal cavity	0	0.00	0.00	3	0.24	0.21	3	0.24	0.21
C31 / Accessory sinus	0	0.00	0.00	2	0.16	0.14	2	0.16	0.14
C32 / Larynx	1	0.08	0.07	16	1.27	1.15	17	1.35	1.22
C34 / Bronchus & lung	21	1.66	1.50	110	8.76	7.88	131	10.43	9.38
C38 / Heart, Mediastinum, pleura	1	0.08	0.07	0	0.00	0.00	1	0.08	0.07
C40 / Bone & cartilage, limbs	2	0.16	0.14	3	0.24	0.21	5	0.40	0.36
C41 / Bones & cartilage, other	5	0.40	0.36	5	0.40	0.36	10	0.80	0.72
C42 / Chronic Myeloproliferative disorders	0	0.00	0.00	1	0.08	0.07	1	0.08	0.07
endothelial & Leukemia	32	2.53	2.29	41	3.26	2.94	73	5.81	5.23
Hemato poietic Myelodys plastic syndromes	1	0.08	0.07	1	0.08	0.07	2	0.16	0.14
System Plasma cell tumor	7	0.55	0.50	8	0.64	0.57	15	1.19	1.07
C44 / Skin, other	41	3.24	2.94	46	3.66	3.29	87	6.93	6.23
C49 / Soft tissues	3	0.24	0.21	5	0.40	0.36	8	0.64	0.57
C50 / Breast	221	17.47	15.83	5	0.40	0.36	226	17.99	16.18
C52 / Vagina	1	0.08	0.14	0	0.00	0.00	1	0.08	0.14
C53 / Cervix uteri	11	0.87	1.58	0	0.00	0.00	11	0.88	1.58

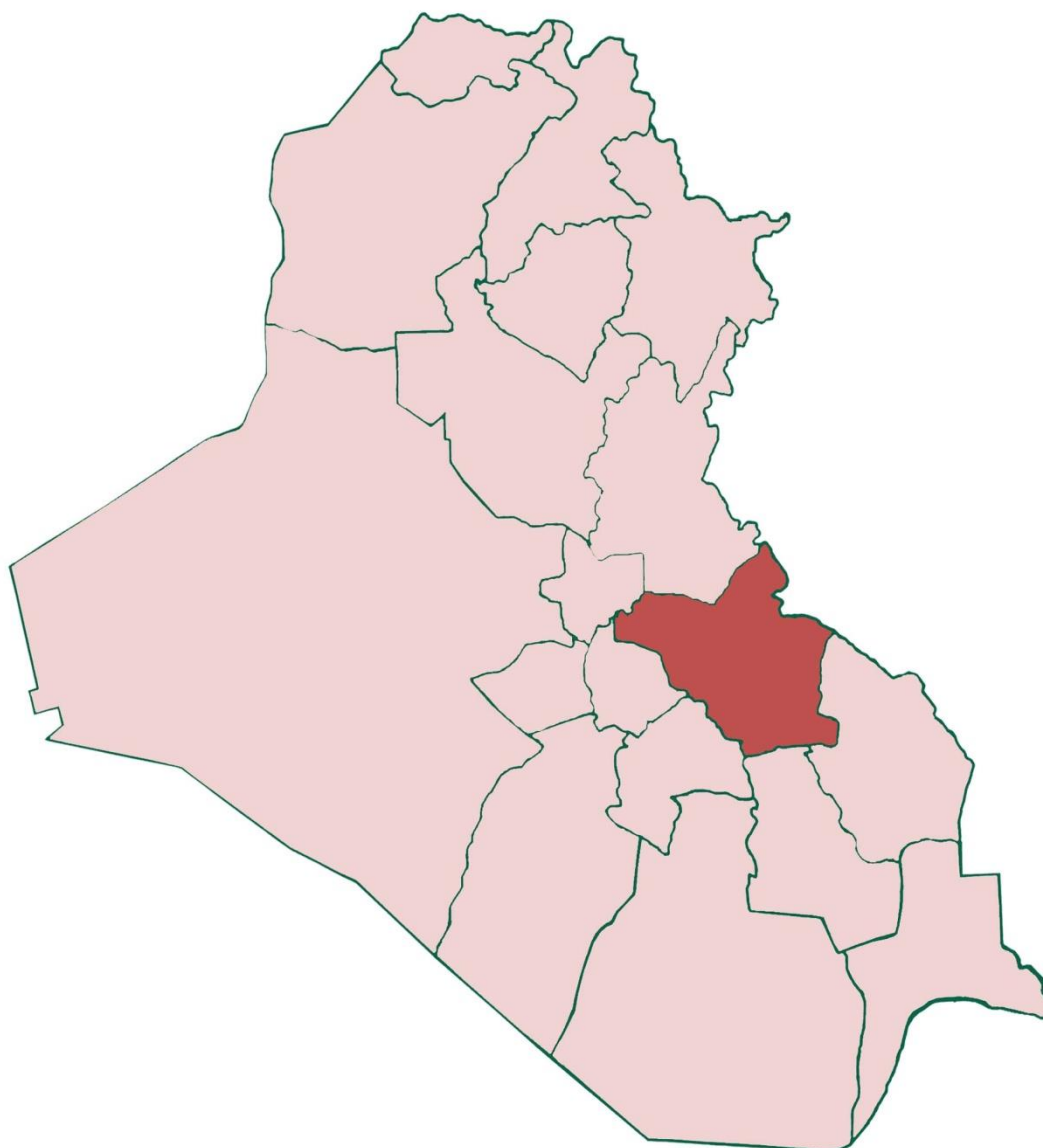
ICD-O code/site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C54 / Corpus uteri	8	0.63	1.15	0	0.00	0.00	8	0.64	1.15
C55 / Uterus unspecified	21	1.66	3.01	0	0.00	0.00	21	1.67	3.01
C56 / Ovary	27	2.13	3.88	0	0.00	0.00	27	2.15	3.88
C58 / Placenta	3	0.24	0.43	0	0.00	0.00	3	0.24	0.43
C61 / Prostate	0	0.00	0.00	28	2.23	4.00	28	2.23	4.00
C62 / Testis	0	0.00	0.00	8	0.64	1.14	8	0.64	1.14
C64 / Kidney	15	1.19	1.07	17	1.35	1.22	32	2.55	2.29
C65 / Pelvis	1	0.08	0.07	1	0.08	0.07	2	0.16	0.14
C66 / Ureter	1	0.08	0.07	0	0.00	0.00	1	0.08	0.07
C67 / Urinary bladder	4	0.32	0.29	33	2.63	2.36	37	2.95	2.65
C71 / Brain	23	1.82	1.65	34	2.71	2.43	57	4.54	4.08
C72 / Nervous system, other	1	0.08	0.07	0	0.00	0.00	1	0.08	0.07
C73 / Thyroid gland	51	4.03	3.65	8	0.64	0.57	59	4.70	4.22
C76 / Unspecified site	2	0.16	0.14	2	0.16	0.14	4	0.32	0.29
C77 / Hodgkin Lymphoma	19	1.50	1.36	33	2.63	2.36	52	4.14	3.72
Lymph node Non-Hodgkin Lymphoma	20	1.58	1.43	22	1.75	1.58	42	3.34	3.01
C80 / Unknown primary site	8	0.63	0.57	8	0.64	0.57	16	1.27	1.15
Total	676	53.44	48.41	580	46.18	41.53	1256	100.00	89.94

Note:

* From C52 to C58 the incidence rate was calculated from the female population.

* From C61 to C62 the incidence rate was calculated from the male population.

Wasit
Populations Number : 1489631
Cancer Cases Number : 1334
Incidence Rate: 89.55/100,000 Wasit Populations



3.4.8. Wasit governorate

Table No.; (46), Figure No.; (35) shows that the highest number, percentage and crude incidence rate/100,000 P of the top ten cancer was breast cancer and the lowest stomach cancer.

Table No.; (46) Number and percentage of the top ten cancers in Wasit, Iraq, 2021

Top ten	No.	%
1 Breast	266	30.09
2 Bronchus & lung	116	13.12
3 Urinary bladder	87	9.84
4 Colorectal	80	9.05
5 Thyroid gland	77	8.71
6 Brain & other CNS	65	7.35
7 Leukemia	58	6.56
8 Non-Hodgkin lymphoma	49	5.54
9 Kidney	43	4.86
10 Stomach	43	4.86
Total top ten	884	100.00%

Figure No.; (35) Crude incidence rate of the top ten cancers in Wasit /100,000 Wasit populations, Iraq, 2021

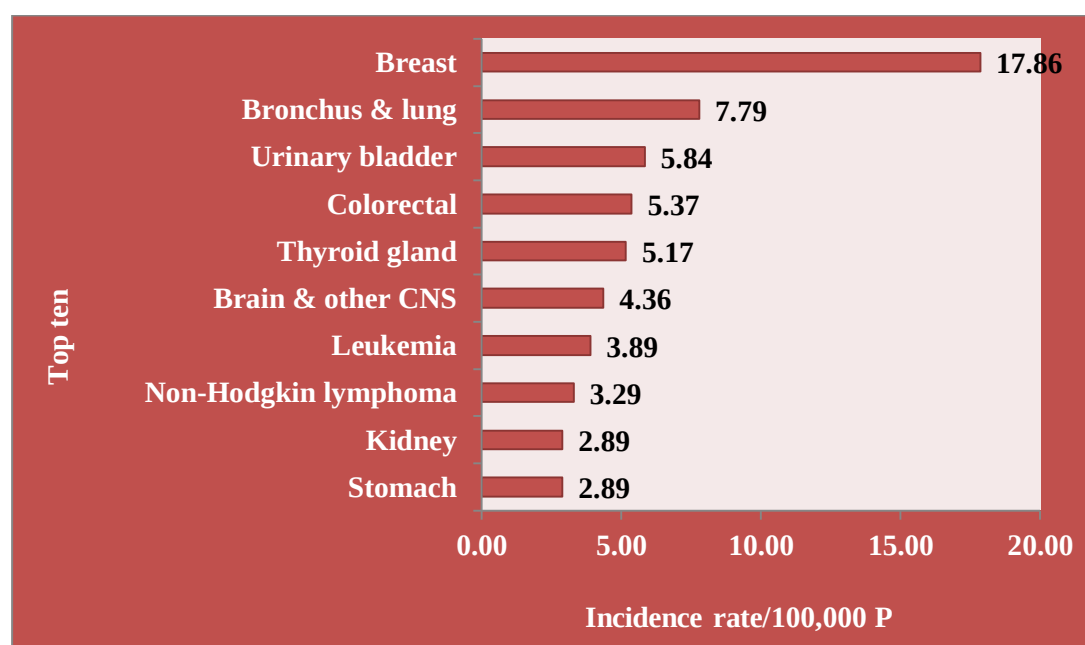


Table No.; (47), Figure No.; (36) shows that the highest number, percentage and crude incidence rate/100,000 MP of the top ten cancer in male was bronchus & lung cancer and the lowest stomach cancer.

Table No.; (47) Number and percentage of the top ten cancers in males, Wasit, Iraq, 2021

Top ten	No.	%
1 Bronchus & Lung	82	20.15
2 Urinary Bladder	62	15.23
3 Colorectal	48	11.79
4 Prostate	40	9.83
5 Leukemia	36	8.85
6 Non-Hodgkin Lymphoma	31	7.62
7 Kidney	30	7.37
8 Brain & Other CNS	29	7.13
9 Skin, other	26	6.39
10 Stomach	23	5.65
Total top ten	407	100.00%

Figure No.; (36) Crude incidence rate of the top ten cancers in males / 100,000 male populations, Wasit, Iraq, 2021

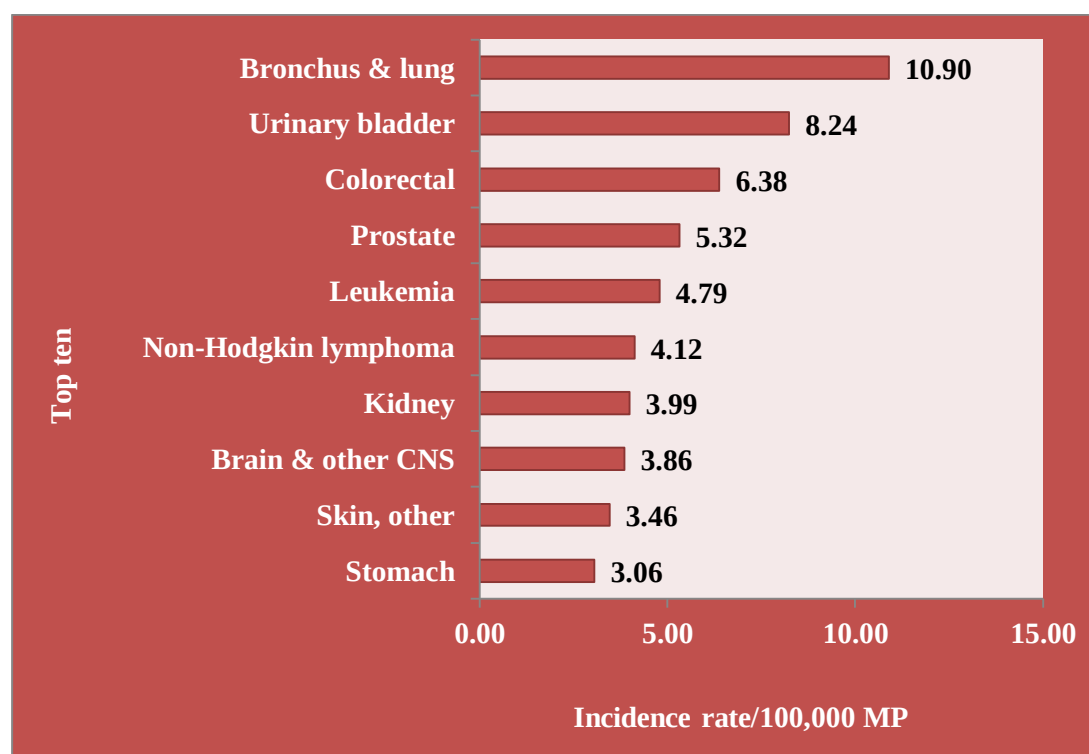


Table No.; (48), Figure No.; (37) shows that the highest number, percentage and crude incidence rate/100,000 FP of the top ten cancer in female was breast cancer and the lowest stomach cancer.

Table No.; (48) Number and percentage of the top ten cancers in females, Wasit, Iraq, 2021

Top ten	No.	%
1 Breast	258	46.57
2 Thyroid gland	57	10.29
3 Uterus unspecified	39	7.04
4 Brain & other CNS	36	6.50
5 Bronchus & lung	34	6.14
6 Colorectal	32	5.78
7 Ovary	31	5.60
8 Urinary bladder	25	4.51
9 Leukemia	22	3.97
10 Stomach	20	3.61
Total top ten	554	100.00%

Figure No.; (37) Incidence rate of the top ten cancers in females / 100,000 female populations, Wasit, Iraq, 2021

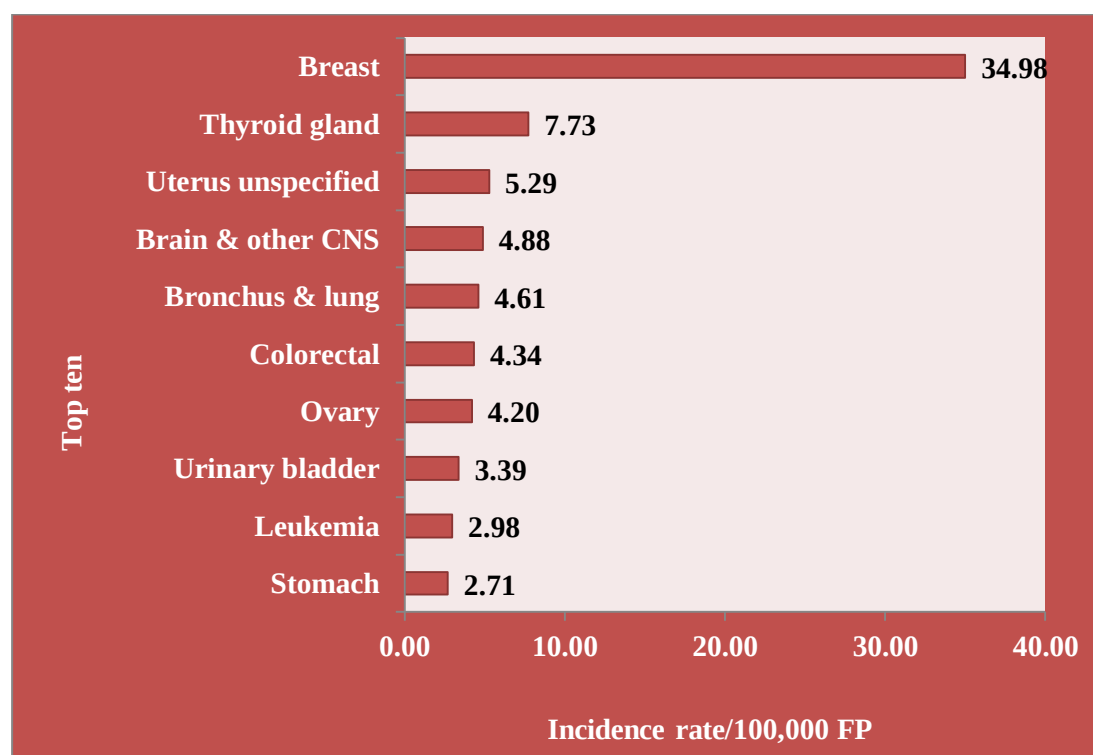


Table No.; (49) Number, percentage and the crude incidence rate/100,000 Wasit population of cancer by ICD-O code, site of tumor and gender, in Wasit, Iraq, 2021

ICD-O code/ site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C01 / Tongue, base		1	0.07	0.07	1	0.07	0.07	2	0.15	0.13
C02 / Tongue, other		1	0.07	0.07	0	0.00	0.00	1	0.07	0.07
C06 / Mouth - other		0	0.00	0.00	1	0.07	0.07	1	0.07	0.07
C07 / Parotid gland		1	0.07	0.07	1	0.07	0.07	2	0.15	0.13
C09 / Tonsil		0	0.00	0.00	1	0.07	0.07	1	0.07	0.07
C11 / Nasopharynx		5	0.37	0.34	5	0.37	0.34	10	0.75	0.67
C14 / Pharynx		0	0.00	0.00	2	0.15	0.13	2	0.15	0.13
C15 / Oesophagus		7	0.52	0.47	6	0.45	0.40	13	0.97	0.87
C16 / Stomach		20	1.50	1.34	23	1.72	1.54	43	3.22	2.89
C17 / Small intestine		8	0.60	0.54	19	1.42	1.28	27	2.02	1.81
C18 / Colon		20	1.50	1.34	31	2.32	2.08	51	3.82	3.42
C19 / Recto sigmoid Junction		0	0.00	0.00	2	0.15	0.13	2	0.15	0.13
C20 / Rectum		12	0.90	0.81	15	1.12	1.01	27	2.02	1.81
C21 / Anus & anal canal		1	0.07	0.07	0	0.00	0.00	1	0.07	0.07
C22 / Liver & bile ducts		17	1.27	1.14	23	1.72	1.54	40	3.00	2.69
C23 / Gallbladder		7	0.52	0.47	5	0.37	0.34	12	0.90	0.81
C24 / Biliary tract , other		3	0.22	0.20	1	0.07	0.07	4	0.30	0.27
C25 / Pancreas		10	0.75	0.67	21	1.57	1.41	31	2.32	2.08
C26 / Other digestive organs		0	0.00	0.00	1	0.07	0.07	1	0.07	0.07
C30 / Nasal cavity		0	0.00	0.00	1	0.07	0.07	1	0.07	0.07
C32 / Larynx		1	0.07	0.07	6	0.45	0.40	7	0.52	0.47
C34 / Bronchus & lung		34	2.55	2.28	82	6.15	5.50	116	8.70	7.79
C37 / Thymus		2	0.15	0.13	0	0.00	0.00	2	0.15	0.13
C38 / Heart, Mediastinum, pleura		0	0.00	0.00	2	0.15	0.13	2	0.15	0.13
C39 / Other respiratory & thoracic		1	0.07	0.07	0	0.00	0.00	1	0.07	0.07
C40 / Bone & cartilage, limbs		10	0.75	0.67	2	0.15	0.13	12	0.90	0.81
C41 / Bones & cartilage, other		5	0.37	0.34	10	0.75	0.67	15	1.12	1.01
C42 / Reticulo endothelial & Hemato poietic System	Immunoproliferative diseases	0	0.00	0.00	1	0.07	0.07	1	0.07	0.07
	Leukemia	22	1.65	1.48	36	2.70	2.42	58	4.35	3.89
	Plasma cell tumor	2	0.15	0.13	3	0.22	0.20	5	0.37	0.34
C44 / Skin, other		15	1.12	1.01	26	1.95	1.75	41	3.07	2.75
C47 /Nerves system		0	0.00	0.00	1	0.07	0.07	1	0.07	0.07
C48 / Peritoneum		0	0.00	0.00	3	0.22	0.20	3	0.22	0.20
C49 / Soft tissues		7	0.52	0.47	5	0.37	0.34	12	0.90	0.81
C50 / Breast		258	19.34	17.32	8	0.60	0.54	266	19.94	17.86

ICD-O code/ site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C51 / Vulva	3	0.22	0.41	0	0.00	0.00	3	0.22	0.41
C53 / Cervix uteri	7	0.52	0.95	0	0.00	0.00	7	0.52	0.95
C54 / Corpus uteri	7	0.52	0.95	0	0.00	0.00	7	0.52	0.95
C55 / Uterus unspecified	39	2.92	5.29	0	0.00	0.00	39	2.92	5.29
C56 / Ovary	31	2.32	4.20	0	0.00	0.00	31	2.32	4.20
C58 / Placenta	3	0.22	0.41	0	0.00	0.00	3	0.22	0.41
C61 / Prostate	0	0.00	0.00	40	3.00	5.32	40	3.00	5.32
C62 / Testis	0	0.00	0.00	13	0.97	1.73	13	0.97	1.73
C64 / Kidney	13	0.97	0.87	30	2.25	2.01	43	3.22	2.89
C65 / Pelvis	0	0.00	0.00	1	0.07	0.07	1	0.07	0.07
C66 / Ureter	2	0.15	0.13	0	0.00	0.00	2	0.15	0.13
C67 / Urinary bladder	25	1.87	1.68	62	4.65	4.16	87	6.52	5.84
C69 / Eye & Adnexa	0	0.00	0.00	2	0.15	0.13	2	0.15	0.13
C70 / Meninges	3	0.22	0.20	2	0.15	0.13	5	0.37	0.34
C71 / Brain	33	2.47	2.22	26	1.95	1.75	59	4.42	3.96
C72 / Nervous system, other	0	0.00	0.00	1	0.07	0.07	1	0.07	0.07
C73 / Thyroid gland	57	4.27	3.83	20	1.50	1.34	77	5.77	5.17
C74 / Adrenal gland	1	0.07	0.07	2	0.15	0.13	3	0.22	0.20
C76 / Unspecified site	2	0.15	0.13	1	0.07	0.07	3	0.22	0.20
C77 / Hodgkin Lymphoma	13	0.97	0.87	10	0.75	0.67	23	1.72	1.54
Lymph node Non- Hodgkin Lymphoma	18	1.35	1.21	31	2.32	2.08	49	3.67	3.29
C80 / Unknown primary site	6	0.45	0.40	16	1.20	1.07	22	1.65	1.48
Total	733	54.95	49.21	601	45.05	40.35	1334	100.00	89.55

Note:

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

* From C61 to C62 the incidence rate was calculated from the male population.

Al-Qadysea
Populations Number : 1394885
Cancer Cases Number : 1168
Incidence Rate: 83.73/100,000 Al-Qadysea Populations



3.4.9. Al-Qadysea governorate

Table No.; (50), Figure No.; (38) shows that the highest number, percentage and crude incidence rate/100,000 P of the top ten cancer was breast cancer and the lowest liver cancer.

Table No.; (50) Number and percentage of the top ten cancers in Al-Qadysea, Iraq, 2021

Top ten	No.	%
1 Breast	191	23.38
2 Bronchus & lung	104	12.73
3 Colorectal	80	9.79
4 Thyroid gland	79	9.67
5 Urinary bladder	78	9.55
6 Brain & other CNS	76	9.30
7 Non-Hodgkin lymphoma	63	7.71
8 Leukemia	57	6.98
9 Stomach	47	5.75
10 Liver	42	5.14
Total top ten	817	100.00%

Figure No.; (38) Crude incidence rate of the top ten cancers in Al-Qadysea /100,000 Al-Qadysea populations, Al-Qadysea, Iraq, 2021

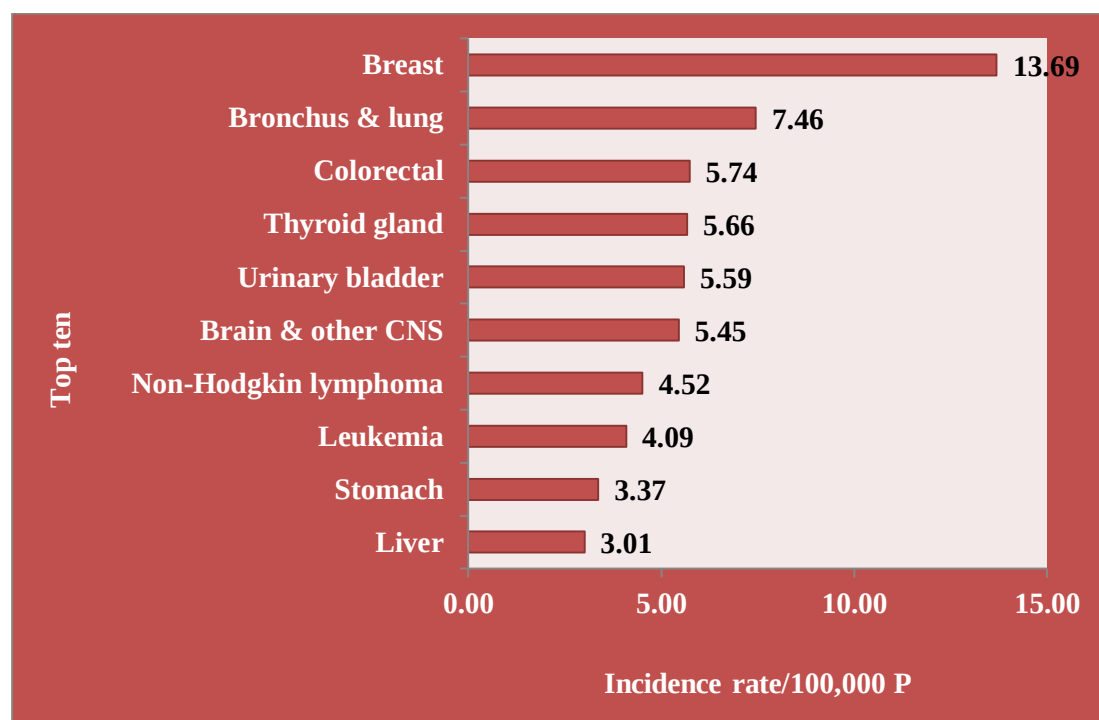


Table No.; (51), Figure No.; (39) shows that the highest number, percentage and crude incidence rate/100,000 MP of the top ten cancer in male was bronchus & lung cancer and the lowest skin, other cancer.

**Table No.; (51) Number and percentage of the top ten cancers in males,
Al-Qadysea, Iraq, 2021**

Top ten	No.	%
1 Bronchus & lung	58	15.38
2 Urinary bladder	58	15.38
3 Brain & other CNS	42	11.14
4 Prostate	41	10.88
5 Non-Hodgkin lymphoma	39	10.34
6 Colorectal	36	9.55
7 Leukemia	33	8.75
8 Liver	25	6.63
9 Stomach	25	6.63
10 Skin, other	20	5.31
Total top ten	377	100.00%

**Figure No.; (39) Crude incidence rate of the top ten cancers in males / 100,000
male populations, Al-Qadysea, Iraq, 2021**

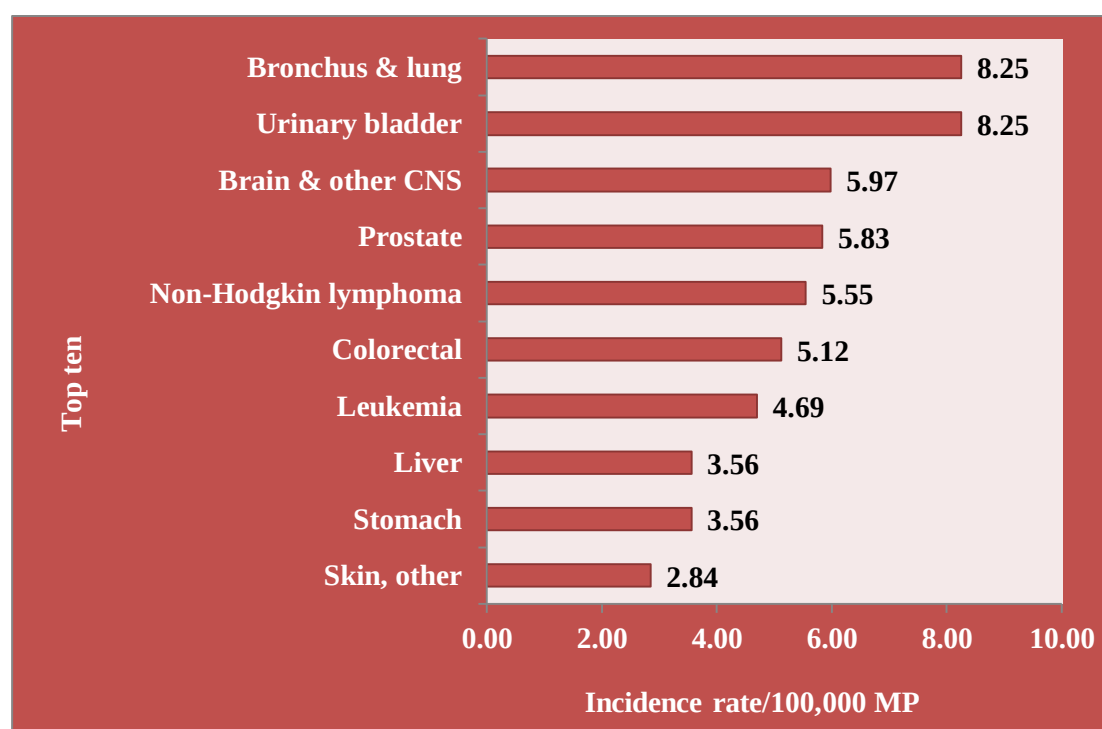


Table No.; (52), Figure No.; (40) shows that the highest number, percentage and crude incidence rate/100,000 FP of the top ten cancer in female was breast cancer and the lowest ovary cancer.

Table No.; (52) Number and percentage of the top ten cancers in females, Al-Qadysea, Iraq, 2021

Top ten	No.	%
1 Breast	184	37.32
2 Thyroid gland	67	13.59
3 Bronchus & lung	46	9.33
4 Colorectal	44	8.92
5 Brain & other CNS	34	6.90
6 Uterus unspecified	27	5.48
7 Leukemia	24	4.87
8 Non-Hodgkin lymphoma	24	4.87
9 Stomach	22	4.46
10 Ovary	21	4.26
Total top ten	493	100.00%

Figure No.; (40) Crude incidence rate of the top ten cancers in females / 100,000 female populations, Al-Qadysea, Iraq, 2021

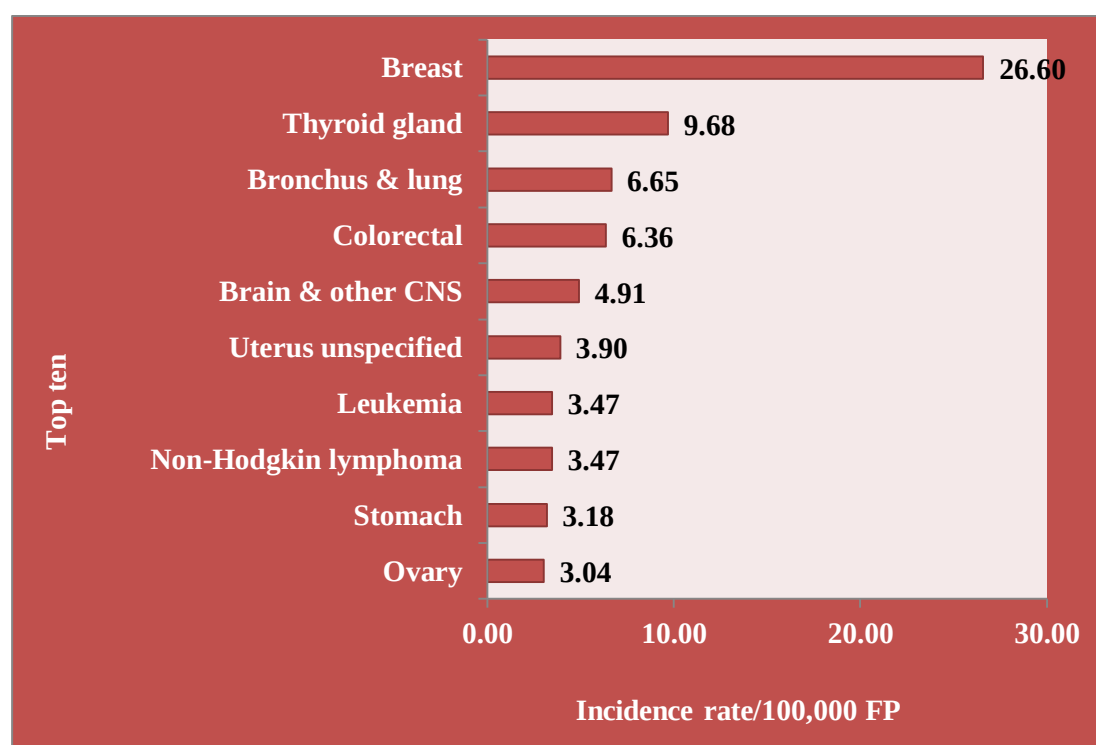


Table No.; (53) Number, percentage and the crude incidence rate/100,000 Al-Qadysea population of cancer by ICD-O code, site of tumor and gender, in Al-Qadysea, Iraq, 2021

ICD-O code/ site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C06 / Mouth - other		0	0.00	0.00	1	0.09	0.07	1	0.09	0.07
C07 / Parotid gland		1	0.09	0.07	0	0.00	0.00	1	0.09	0.07
C09 / Tonsil		0	0.00	0.00	1	0.09	0.07	1	0.09	0.07
C11 / Nasopharynx		2	0.17	0.14	11	0.94	0.79	13	1.11	0.93
C13 / Hypopharynx		1	0.09	0.07	0	0.00	0.00	1	0.09	0.07
C14 / Pharynx		0	0.00	0.00	1	0.09	0.07	1	0.09	0.07
C15 / Oesophagus		4	0.34	0.29	2	0.17	0.14	6	0.51	0.43
C16 / Stomach		22	1.88	1.58	25	2.14	1.79	47	4.02	3.37
C18 / Colon		31	2.65	2.22	21	1.80	1.51	52	4.45	3.73
C19 / Recto sigmoid Junction		2	0.17	0.14	0	0.00	0.00	2	0.17	0.14
C20 / Rectum		11	0.94	0.79	15	1.28	1.08	26	2.23	1.86
C21 / Anus & anal canal		1	0.09	0.07	1	0.09	0.07	2	0.17	0.14
C22 / Liver & bile ducts		17	1.46	1.22	25	2.14	1.79	42	3.60	3.01
C23 / Gallbladder		4	0.34	0.29	1	0.09	0.07	5	0.43	0.36
C24 / Biliary tract , other		4	0.34	0.29	16	1.37	1.15	20	1.71	1.43
C25 / Pancreas		8	0.68	0.57	14	1.20	1.00	22	1.88	1.58
C30 / Nasal cavity		1	0.09	0.07	0	0.00	0.00	1	0.09	0.07
C32 / Larynx		11	0.94	0.79	11	0.94	0.79	22	1.88	1.58
C34 / Bronchus & lung		46	3.94	3.30	58	4.97	4.16	104	8.90	7.46
C37 / Thymus		0	0.00	0.00	1	0.09	0.07	1	0.09	0.07
C38 / Heart, Mediastinum, pleura		2	0.17	0.14	1	0.09	0.07	3	0.26	0.22
C40 / Bone & cartilage, limbs		2	0.17	0.14	3	0.26	0.22	5	0.43	0.36
C41 / Bones & cartilage, other		2	0.17	0.14	5	0.43	0.36	7	0.60	0.50
C42 / Reticulo endothelial & Hemato poietic System	Leukemia	24	2.05	1.72	33	2.83	2.37	57	4.88	4.09
	Myelo dysplastic syndromes	0	0.00	0.00	1	0.09	0.07	1	0.09	0.07
	Plasma cell tumor	3	0.26	0.22	6	0.51	0.43	9	0.77	0.65
C44 / Skin, other		14	1.20	1.00	20	1.71	1.43	34	2.91	2.44
C47 /Nerves system		0	0.00	0.00	1	0.09	0.07	1	0.09	0.07
C48 / Peritoneum		0	0.00	0.00	2	0.17	0.14	2	0.17	0.14
C49 / Soft tissues		7	0.60	0.50	9	0.77	0.65	16	1.37	1.15

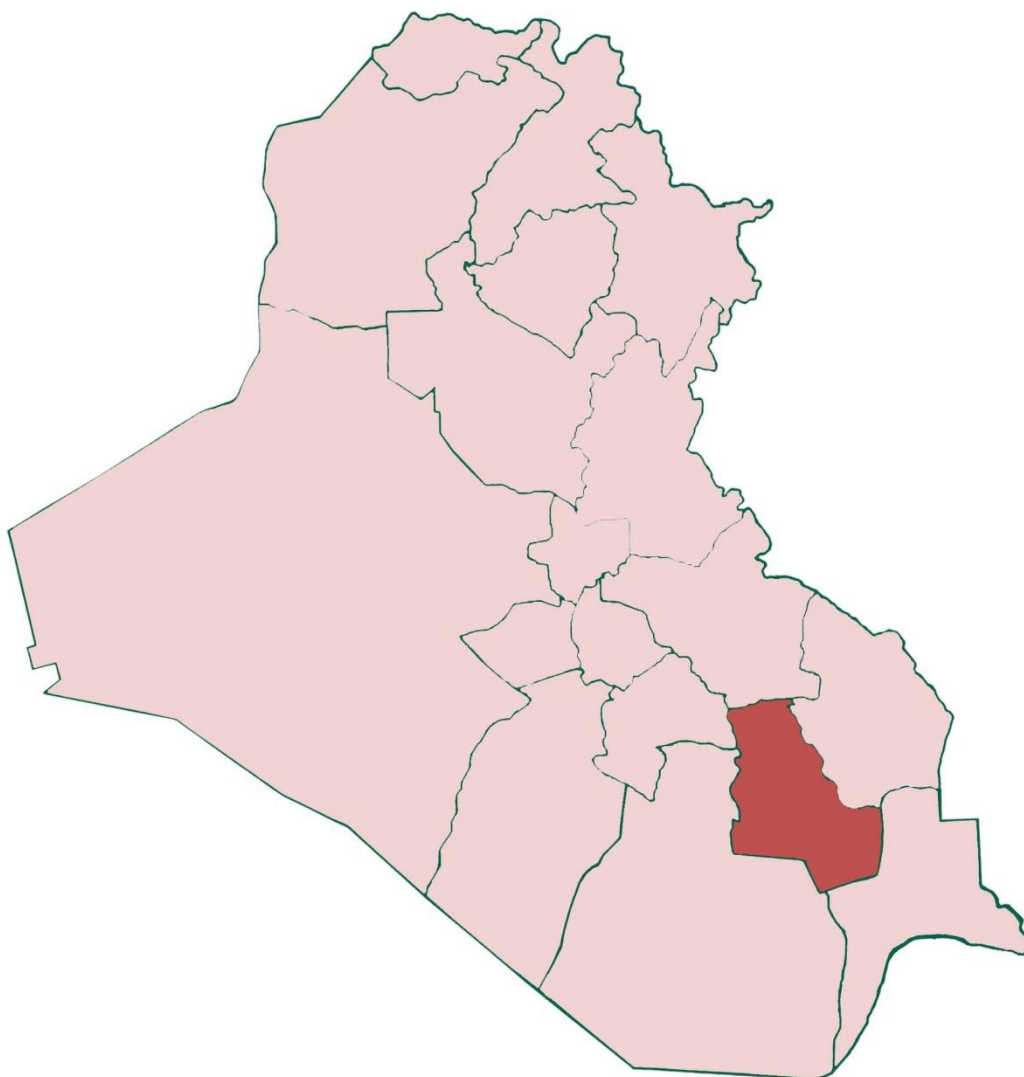
ICD-O code/ site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C50 / Breast		184	15.75	13.19	7	0.60	0.50	191	16.35	13.69
C51 / Vulva		1	0.09	0.14	0	0.00	0.00	1	0.09	0.14
C53 / Cervix uteri		3	0.26	0.43	0	0.00	0.00	3	0.26	0.43
C54 / Corpus uteri		5	0.43	0.72	0	0.00	0.00	5	0.43	0.72
C55 / Uterus unspecified		27	2.31	3.90	0	0.00	0.00	27	2.31	3.90
C56 / Ovary		21	1.80	3.04	0	0.00	0.00	21	1.80	3.04
C57 / Female genital - other		1	0.09	0.14	0	0.00	0.00	1	0.09	0.14
C61 / Prostate		0	0.00	0.00	41	3.51	5.83	41	3.51	5.83
C62 / Testis		0	0.00	0.00	6	0.51	0.85	6	0.51	0.85
C64 / Kidney		12	1.03	0.86	14	1.20	1.00	26	2.23	1.86
C67 / Urinary bladder		20	1.71	1.43	58	4.97	4.16	78	6.68	5.59
C68 / Urinary organs, other		1	0.09	0.07	0	0.00	0.00	1	0.09	0.07
C69 / Eye & Adnexa		1	0.09	0.07	1	0.09	0.07	2	0.17	0.14
C70 / Meninges		4	0.34	0.29	4	0.34	0.29	8	0.68	0.57
C71 / Brain		27	2.31	1.94	35	3.00	2.51	62	5.31	4.44
C72 / Nervous system, other		1	0.09	0.07	2	0.17	0.14	3	0.26	0.22
C73 / Thyroid gland		67	5.74	4.80	12	1.03	0.86	79	6.76	5.66
C74 / Adrenal gland		1	0.09	0.07	4	0.34	0.29	5	0.43	0.36
C75 / Endocrine gland, other		2	0.17	0.14	1	0.09	0.07	3	0.26	0.22
C76 / Unspecified site		4	0.34	0.29	10	0.86	0.72	14	1.20	1.00
C77 / Lymph node	Hodgkin Lymphoma	10	0.86	0.72	9	0.77	0.65	19	1.63	1.36
	Non-Hodgkin Lymphoma	24	2.05	1.72	39	3.34	2.80	63	5.39	4.52
C80 / Unknown primary site		2	0.17	0.14	2	0.17	0.14	4	0.34	0.29
Total		638	54.62	45.74	530	45.38	38.00	1168	100.00	83.73

Note:

* From C51 to C57 the incidence rate was calculated from the female population.

* From C61 to C62 the incidence rate was calculated from the male population.

ThiQar
Populations Number : 2263695
Cancer Cases Number : 1771
Incidence Rate: 78.23/100,000 ThiQar Populations



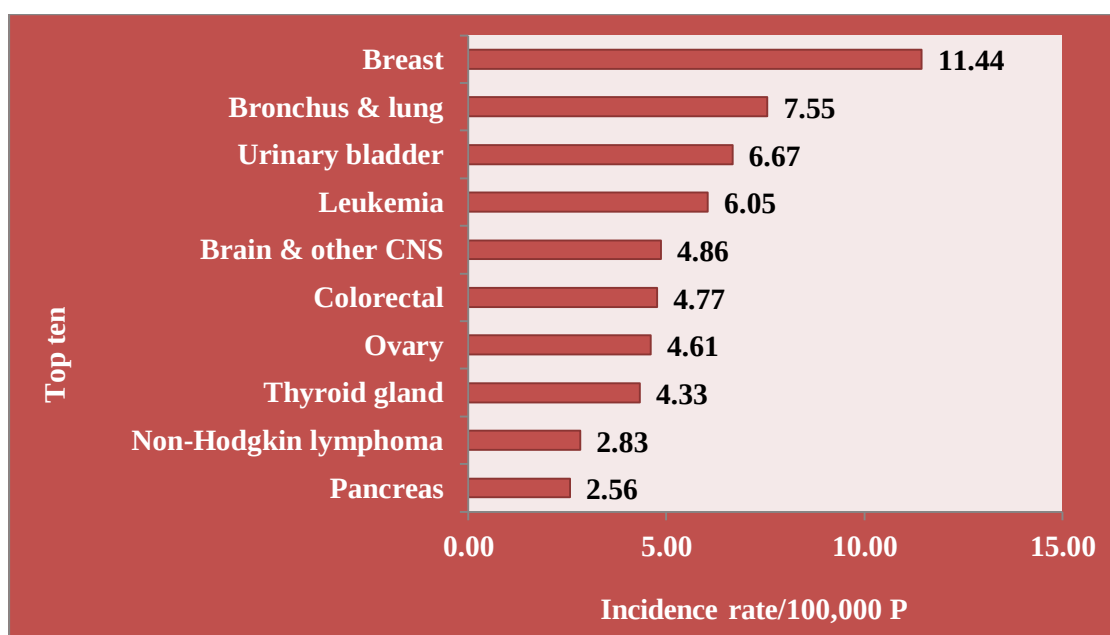
3.4.10. ThiQar governorate

Table No.; (54), Figure No.; (41) shows that the highest number, percentage and crude incidence rate/100,000 P of the top ten cancer was breast cancer and the lowest ovary cancer.

Table No.; (54) Number and percentage of the top ten cancers in ThiQar, Iraq, 2021

Top ten	No.	%
1 Breast	259	21.44
2 Bronchus & lung	171	14.16
3 Urinary bladder	151	12.50
4 Leukemia	137	11.34
5 Brain & other CNS	110	9.11
6 Colorectal	108	8.94
7 Thyroid gland	98	8.11
8 Non-Hodgkin lymphoma	64	5.30
9 Pancreas	58	4.80
10 Ovary	52	4.30
Total top ten	1208	100.00%

Figure No.; (41) Crude incidence rate of the top ten cancers in ThiQar /100,000 ThiQar populations, Iraq, 2021



The ovary incidence rate is calculated from the female populations.

Table No.; (55), Figure No.; (42) shows that the highest number, percentage and crude incidence rate/100,000 MP of the top ten cancer in male was urinary bladder cancer and the lowest stomach cancer.

Table No.; (55) Number and percentage of the top ten cancers in males, ThiQar, Iraq, 2021

Top ten	No.	%
1 Urinary bladder	111	19.01
2 Bronchus & lung	104	17.81
3 Leukemia	80	13.70
4 Brain & other CNS	64	10.96
5 Colorectal	60	10.27
6 Prostate	46	7.88
7 Kidney	32	5.48
8 Non-Hodgkin lymphoma	30	5.14
9 Pancreas	30	5.14
10 Stomach	27	4.62
Total top ten	584	100.00%

Figure No.; (42) Crude incidence rate of the top ten cancers in males / 100,000 male populations, ThiQar, Iraq, 2021

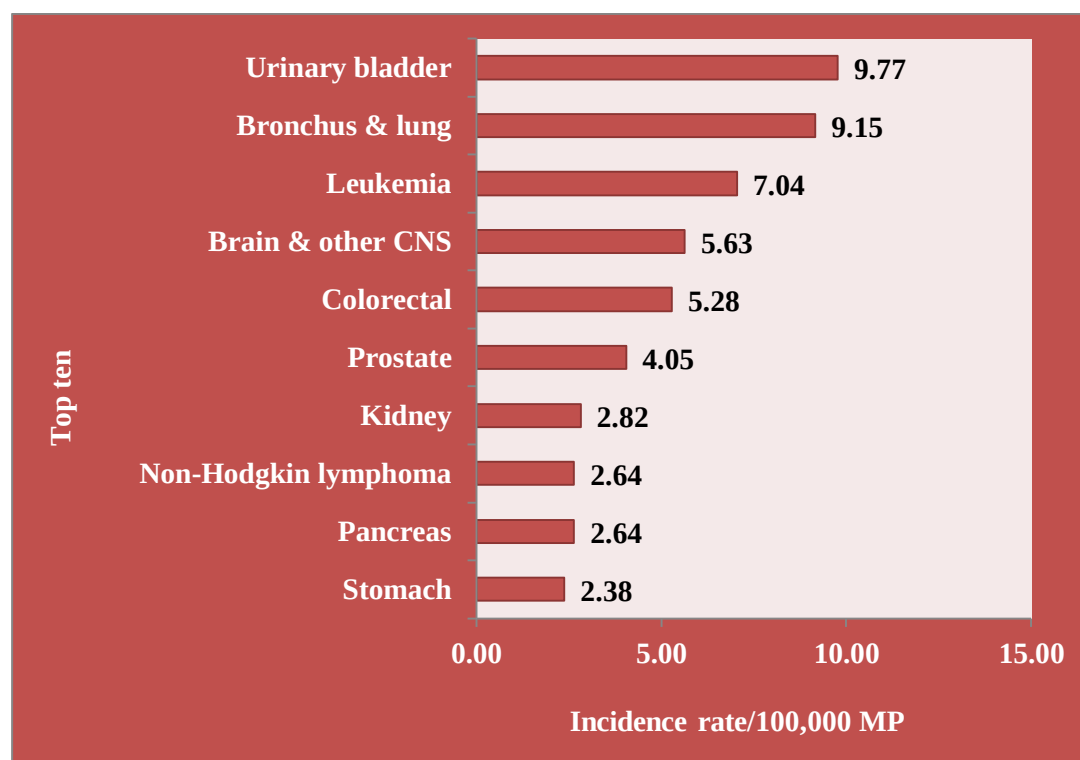


Table No.; (56), Figure No.; (43) shows that the highest percentage and crude incidence rate/100,000 FP of the top ten cancer in female was breast cancer and the lowest pancreas cancer.

Table No.; (56) Number and percentage of the top ten cancers in females, ThiQar, Iraq, 2021

Top ten	No.	%
1 Breast	248	35.33
2 Thyroid gland	82	11.68
3 Bronchus & lung	67	9.54
4 Leukemia	57	8.12
5 Ovary	52	7.41
6 Colorectal	48	6.84
7 Brain & other CNS	46	6.55
8 Urinary bladder	40	5.70
9 Non-Hodgkin lymphoma	34	4.84
10 Pancreas	28	3.99
Total top ten	702	100.00%

Figure No.; (43) Crude incidence rate of the top ten cancers in females / 100,000 female populations, ThiQar, Iraq, 2021

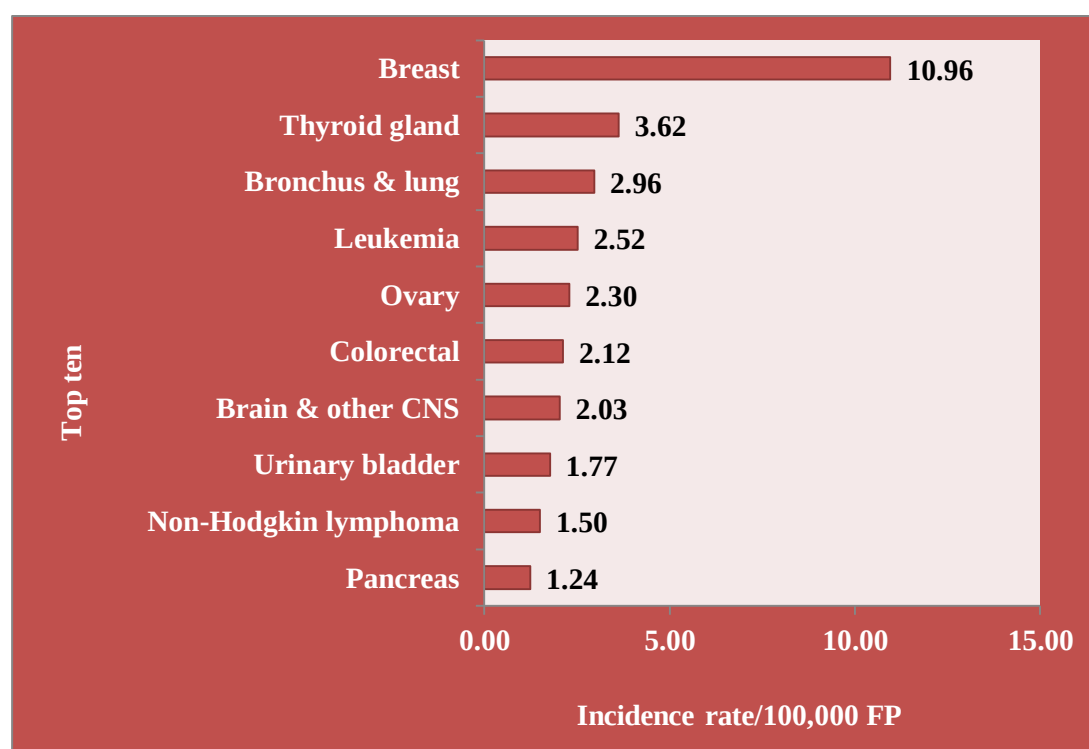


Table No.; (57) Number, percentage and the crude incidence rate/100,000 ThiQar population of cancer by ICD-O code, site of tumor and gender, in ThiQar, Iraq, 2021

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip		0	0.00	0.00	2	0.11	0.09	2	0.11	0.09
C01 / Tongue, base		0	0.00	0.00	1	0.06	0.04	1	0.06	0.04
C02 / Tongue, other		3	0.17	0.13	1	0.06	0.04	4	0.23	0.18
C03 / Gum		0	0.00	0.00	1	0.06	0.04	1	0.06	0.04
C04 / Mouth - floor		1	0.06	0.04	1	0.06	0.04	2	0.11	0.09
C05 / Mouth - palate		0	0.00	0.00	1	0.06	0.04	1	0.06	0.04
C06 / Mouth - other		1	0.06	0.04	0	0.00	0.00	1	0.06	0.04
C07 / Parotid gland		2	0.11	0.09	2	0.11	0.09	4	0.23	0.18
C08 / Mouth glands		3	0.17	0.13	0	0.00	0.00	3	0.17	0.13
C10 / Oropharynx		0	0.00	0.00	1	0.06	0.04	1	0.06	0.04
C11 / Nasopharynx		5	0.28	0.22	8	0.45	0.35	13	0.73	0.57
C13 / Hypopharynx		1	0.06	0.04	1	0.06	0.04	2	0.11	0.09
C14 / Pharynx		1	0.06	0.04	2	0.11	0.09	3	0.17	0.13
C15 / Oesophagus		5	0.28	0.22	6	0.34	0.27	11	0.62	0.49
C16 / Stomach		21	1.19	0.93	27	1.52	1.19	48	2.71	2.12
C17 / Small intestine		7	0.40	0.31	4	0.23	0.18	11	0.62	0.49
C18 / Colon		27	1.52	1.19	40	2.26	1.77	67	3.78	2.96
C19 / Recto sigmoid Junction		3	0.17	0.13	4	0.23	0.18	7	0.40	0.31
C20 / Rectum		18	1.02	0.80	16	0.90	0.71	34	1.92	1.50
C21 / Anus & anal canal		3	0.17	0.13	1	0.06	0.04	4	0.23	0.18
C22 / Liver & bile ducts		26	1.47	1.15	18	1.02	0.80	44	2.48	1.94
C23 / Gallbladder		2	0.11	0.09	2	0.11	0.09	4	0.23	0.18
C24 / Biliary tract , other		4	0.23	0.18	7	0.40	0.31	11	0.62	0.49
C25 / Pancreas		28	1.58	1.24	30	1.69	1.33	58	3.27	2.56
C26 / Other digestive organs		1	0.06	0.04	0	0.00	0.00	1	0.06	0.04
C30 / Nasal cavity		0	0.00	0.00	1	0.06	0.04	1	0.06	0.04
C31 / Accessory sinus		0	0.00	0.00	1	0.06	0.04	1	0.06	0.04
C32 / Larynx		6	0.34	0.27	22	1.24	0.97	28	1.58	1.24
C34 / Bronchus & lung		67	3.78	2.96	104	5.87	4.59	171	9.66	7.55
C37 / Thymus		1	0.06	0.04	3	0.17	0.13	4	0.23	0.18
C38 / Heart, Mediastinum, pleura		1	0.06	0.04	2	0.11	0.09	3	0.17	0.13
C40 / Bone & cartilage, limbs		15	0.85	0.66	12	0.68	0.53	27	1.52	1.19
C41 / Bones & cartilage, other		12	0.68	0.53	9	0.51	0.40	21	1.19	0.93
C42 / Reticulo endothelial & Hemato poietic System	Immunoproliffr active diseases	0	0.00	0.00	1	0.06	0.04	1	0.06	0.04
	Leukemia	57	3.22	2.52	80	4.52	3.53	137	7.74	6.05
	Myelodys plastic syndromes	1	0.06	0.04	1	0.06	0.04	2	0.11	0.09
	Plasma cell tumor	4	0.23	0.18	10	0.56	0.44	14	0.79	0.62
C44 / Skin, other		20	1.13	0.88	20	1.13	0.88	40	2.26	1.77
C47 /Nerves system		1	0.06	0.04	1	0.06	0.04	2	0.11	0.09
C48 / Peritoneum		1	0.06	0.04	1	0.06	0.04	2	0.11	0.09

ICD-O code/site of tumor	Female			Male			Total			
	No.	%	IR	No.	%	IR	No.	%	IR	
C49 / Soft tissues	11	0.62	0.49	10	0.56	0.44	21	1.19	0.93	
C50 / Breast	248	14.00	10.96	11	0.62	0.49	259	14.62	11.44	
C51 / Vulva	2	0.11	0.18	0	0.00	0.00	2	0.11	0.18	
C52 / Vagina	1	0.06	0.09	0	0.00	0.00	1	0.06	0.09	
C53 / Cervix uteri	13	0.73	1.15	0	0.00	0.00	13	0.73	1.15	
C54 / Corpus uteri	5	0.28	0.44	0	0.00	0.00	5	0.28	0.44	
C55 / Uterus unspecified	23	1.30	2.04	0	0.00	0.00	23	1.30	2.04	
C56 / Ovary	52	2.94	4.61	0	0.00	0.00	52	2.94	4.61	
C58 / Placenta	3	0.17	0.27	0	0.00	0.00	3	0.17	0.27	
C61 / Prostate	0	0.00	0.00	46	2.60	4.05	46	2.60	4.05	
C62 / Testis	0	0.00	0.00	12	0.68	1.06	12	0.68	1.06	
C64 / Kidney	18	1.02	0.80	32	1.81	1.41	50	2.82	2.21	
C66 / Ureter	0	0.00	0.00	2	0.11	0.09	2	0.11	0.09	
C67 / Urinary bladder	40	2.26	1.77	111	6.27	4.90	151	8.53	6.67	
C68 / Urinary organs, other	1	0.06	0.04	1	0.06	0.04	2	0.11	0.09	
C69 / Eye & Adnexa	2	0.11	0.09	3	0.17	0.13	5	0.28	0.22	
C70 / Meninges	1	0.06	0.04	1	0.06	0.04	2	0.11	0.09	
C71 / Brain	42	2.37	1.86	61	3.44	2.69	103	5.82	4.55	
C72 / Nervous system, other	3	0.17	0.13	2	0.11	0.09	5	0.28	0.22	
C73 / Thyroid gland	82	4.63	3.62	16	0.90	0.71	98	5.53	4.33	
C74 / Adrenal gland	1	0.06	0.04	4	0.23	0.18	5	0.28	0.22	
C77 / Lymph node	Hodgkin Lymphoma	19	1.07	0.84	19	1.07	0.84	38	2.15	1.68
	Non-Hodgkin Lymphoma	34	1.92	1.50	30	1.69	1.33	64	3.61	2.83
C80 / Unknown primary site	10	0.56	0.44	7	0.40	0.31	17	0.96	0.75	
Total	959	54.15	42.36	812	45.85	35.87	1771	100.00	78.23	

Note:

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

* From C61 to C62 the incidence rate was calculated from the male population.

Babil
Populations Number : 2231136
Cancer Cases Number :1708
Incidence Rate: 76.55/100,000 Babil Populations



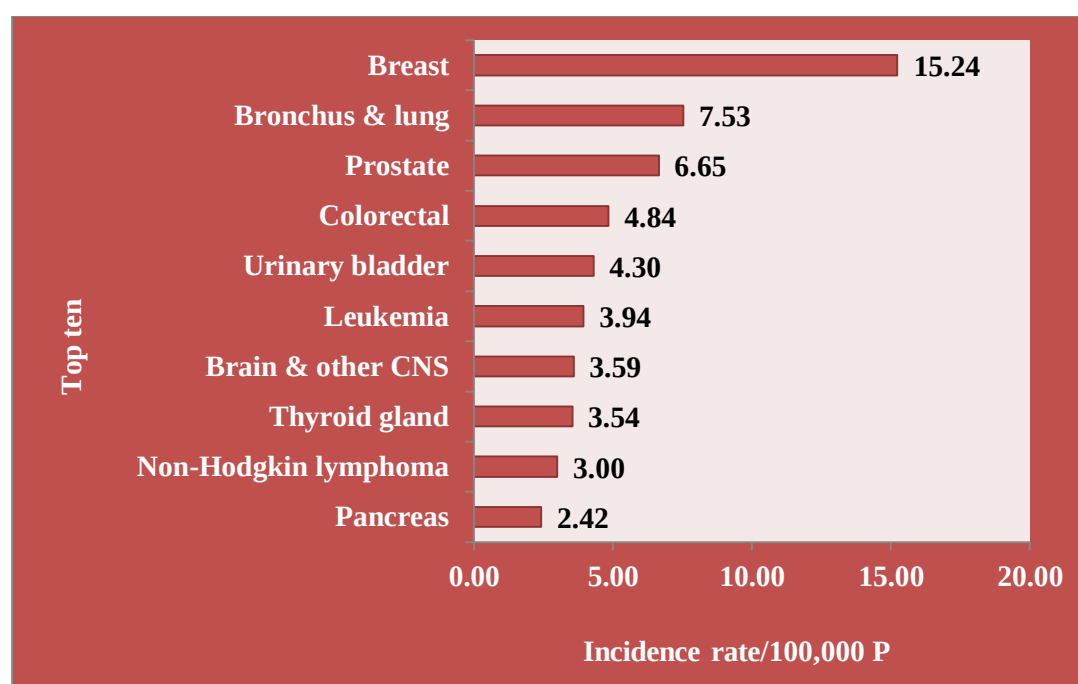
3.4.11. Babil governorate

Table No.; (58), Figure No.; (44) shows that the highest number, percentage and crude incidence rate/100,000 P of the top ten cancer was breast cancer and the lowest pancreas cancer.

Table No.; (58) Number and percentage of the top ten cancers in Babil, Iraq, 2021

Top ten	No.	%
1 Breast	340	29.44
2 Bronchus & lung	168	14.55
3 Colorectal	108	9.35
4 Urinary bladder	96	8.31
5 Leukemia	88	7.62
6 Brain & other CNS	80	6.93
7 Thyroid gland	79	6.84
8 Prostate	75	6.49
9 Non-Hodgkin lymphoma	67	5.80
10 Pancreas	54	4.68
Total top ten	1155	100.00%

Figure No.; (44) Crude incidence rate of the top ten cancers in Babil /100,000 Babil populations, Iraq, 2021



The prostate incidence rate is calculated from the male populations.

Table No.; (59), Figure No.; (45) shows that the highest percentage and crude incidence rate/100,000 MP of the top ten cancer in male was bronchus & lung cancer and the lowest Non-Hodgkin lymphoma.

**Table No.; (59) Number and percentage of the top ten cancers in males,
Babil, Iraq, 2021**

Top ten	No.	%
1 Bronchus & lung	111	20.86
2 Prostate	75	14.10
3 Colorectal	68	12.78
4 Urinary bladder	67	12.59
5 Leukemia	48	9.02
6 Brain & other CNS	42	7.89
7 Stomach	33	6.20
8 Kidney	32	6.02
9 Hodgkin lymphoma	28	5.26
10 Non-Hodgkin lymphoma	28	5.26
Total top ten	532	100.00%

**Figure No.; (45) Crude incidence rate of the top ten cancers in males / 100,000
male populations, Babil, Iraq, 2021**

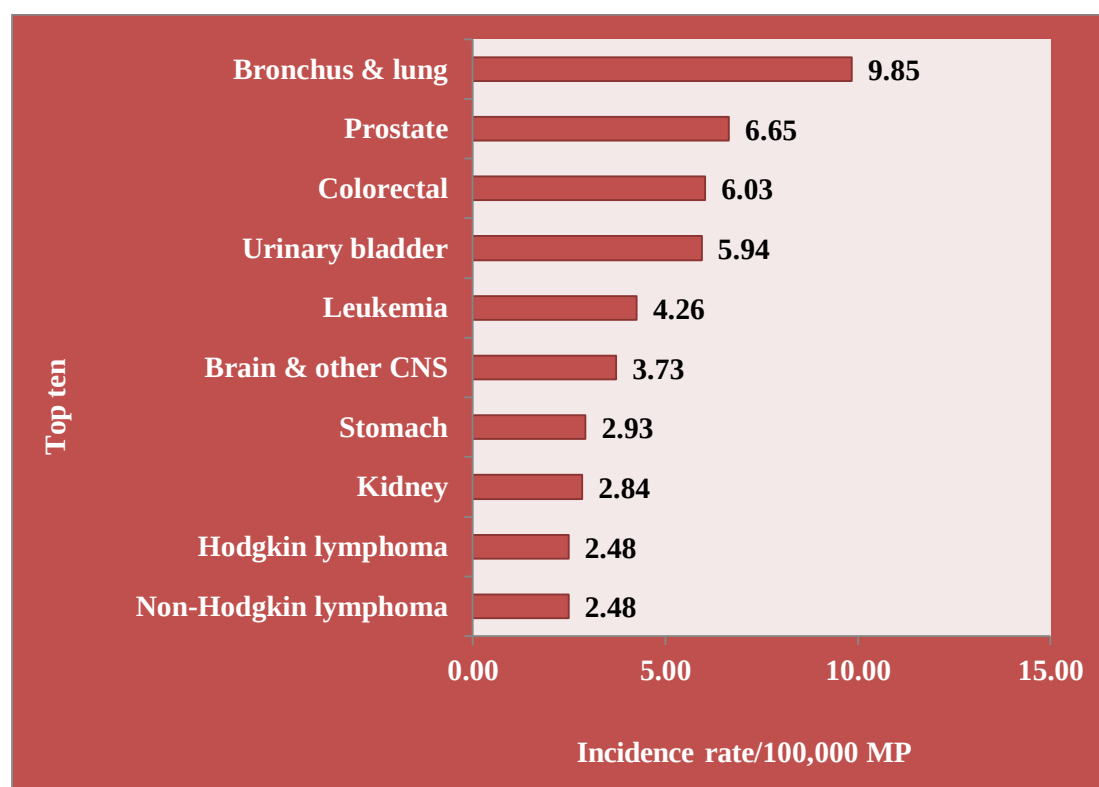


Table No.; (60), Figure No.; (46) shows that the highest percentage and crude incidence rate/100,000 FP of the top ten cancer in female was breast cancer and the lowest urinary bladder cancer.

**Table No.; (60) Number and percentage of the top ten cancers in females,
Babil, Iraq, 2021**

Top ten	No.	%
1 Breast	332	46.37
2 Bronchus & lung	57	7.96
3 Thyroid gland	56	7.82
4 Uterus unspecified	45	6.28
5 Colorectal	40	5.59
6 Leukemia	40	5.59
7 Ovary	40	5.59
8 Non-Hodgkin lymphoma	39	5.45
9 Brain & other CNS	38	5.31
10 Urinary bladder	29	4.05
Total top ten	716	100.00%

**Figure No.; (46) Crude incidence rate of the top ten cancers in females / 100,000
female populations, Babil, Iraq, 2021**

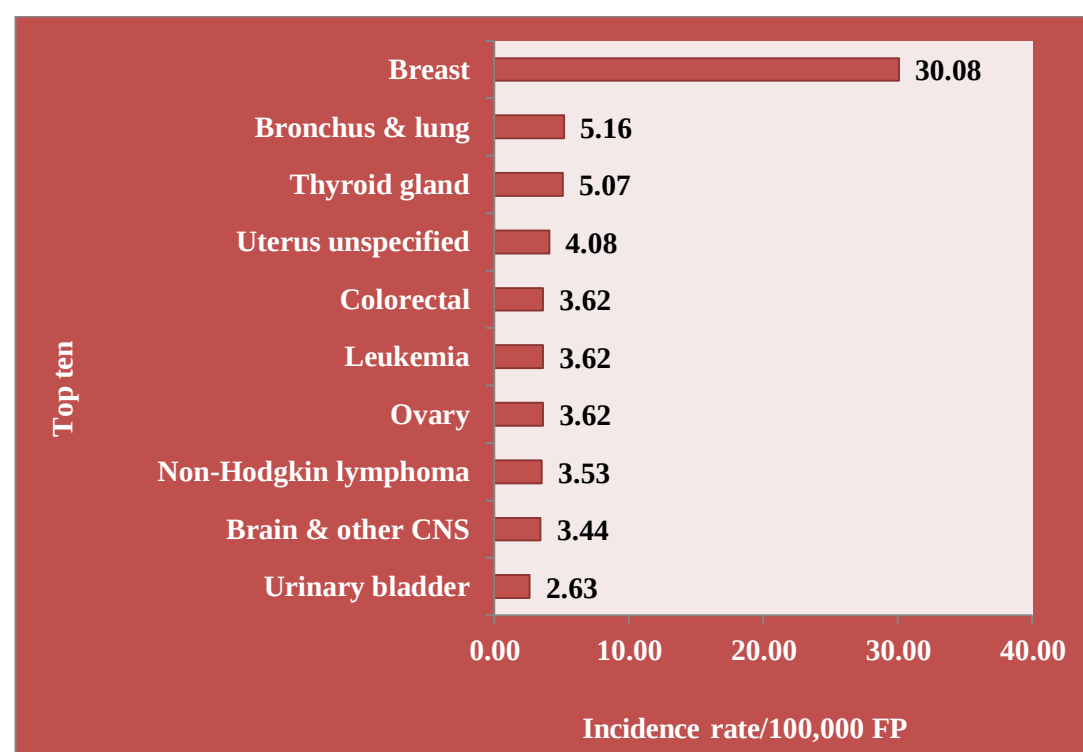


Table No.; (61) Number, percentage and the crude incidence rate/100,000 Babil population of cancer by ICD-O code, site of tumor and gender, in Babil, Iraq, 2021

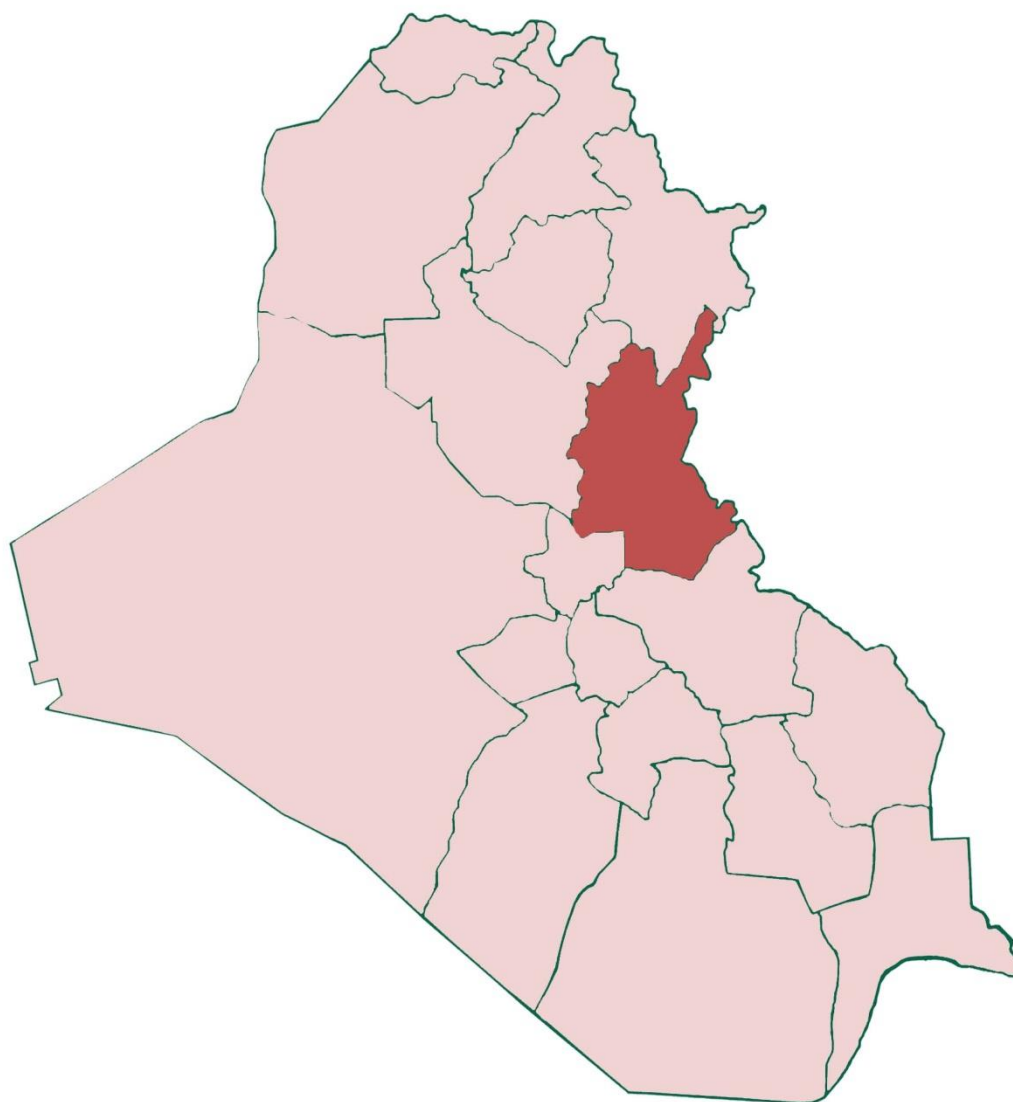
ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip		1	0.06	0.04	0	0.00	0.00	1	0.06	0.04
C01 / Tongue, base		3	0.18	0.13	1	0.06	0.04	4	0.23	0.18
C04 / Mouth - floor		0	0.00	0.00	1	0.06	0.04	1	0.06	0.04
C06 / Mouth - other		0	0.00	0.00	1	0.06	0.04	1	0.06	0.04
C07 / Parotid gland		1	0.06	0.04	1	0.06	0.04	2	0.12	0.09
C08 / Mouth glands		1	0.06	0.04	4	0.23	0.18	5	0.29	0.22
C09 / Tonsil		2	0.12	0.09	5	0.29	0.22	7	0.41	0.31
C11 / Nasopharynx		6	0.35	0.27	7	0.41	0.31	13	0.76	0.58
C12 / Pyriform		0	0.00	0.00	1	0.06	0.04	1	0.06	0.04
C15 / Oesophagus		5	0.29	0.22	5	0.29	0.22	10	0.59	0.45
C16 / Stomach		18	1.05	0.81	33	1.93	1.48	51	2.99	2.29
C17 / Small intestine		1	0.06	0.04	0	0.00	0.00	1	0.06	0.04
C18 / Colon		21	1.23	0.94	40	2.34	1.79	61	3.57	2.73
C19 / Recto sigmoid Junction		0	0.00	0.00	1	0.06	0.04	1	0.06	0.04
C20 / Rectum		19	1.11	0.85	27	1.58	1.21	46	2.69	2.06
C21 / Anus & anal canal		2	0.12	0.09	2	0.12	0.09	4	0.23	0.18
C22 / Liver & bile ducts		19	1.11	0.85	18	1.05	0.81	37	2.17	1.66
C23 / Gallbladder		8	0.47	0.36	2	0.12	0.09	10	0.59	0.45
C24 / Biliary tract , other		0	0.00	0.00	6	0.35	0.27	6	0.35	0.27
C25 / Pancreas		29	1.70	1.30	25	1.46	1.12	54	3.16	2.42
C26 / Other digestive organs		1	0.06	0.04	0	0.00	0.00	1	0.06	0.04
C30 / Nasal cavity		1	0.06	0.04	2	0.12	0.09	3	0.18	0.13
C31 / Accessory sinus		0	0.00	0.00	1	0.06	0.04	1	0.06	0.04
C32 / Larynx		4	0.23	0.18	15	0.88	0.67	19	1.11	0.85
C34 / Bronchus & lung		57	3.34	2.55	111	6.50	4.98	168	9.84	7.53
C37 / Thymus		0	0.00	0.00	1	0.06	0.04	1	0.06	0.04
C38 / Heart, Mediastinum, pleura		0	0.00	0.00	4	0.23	0.18	4	0.23	0.18
C40 / Bone & cartilage, limbs		9	0.53	0.40	13	0.76	0.58	22	1.29	0.99
C41 / Bones & cartilage, other		2	0.12	0.09	10	0.59	0.45	12	0.70	0.54
C42 / Reticulo endothelial & Hematopoietic System	Chronic Myelo proliferative disorders	1	0.06	0.04	0	0.00	0.00	1	0.06	0.04
	Leukemia	40	2.34	1.79	48	2.81	2.15	88	5.15	3.94
	Plasma cell tumor	6	0.35	0.27	6	0.35	0.27	12	0.70	0.54
C44 / Skin, other		12	0.70	0.54	14	0.82	0.63	26	1.52	1.17
C47 /Nerves system		2	0.12	0.09	5	0.29	0.22	7	0.41	0.31
C48 / Peritoneum		1	0.06	0.04	0	0.00	0.00	1	0.06	0.04
C49 / Soft tissues		19	1.11	0.85	12	0.70	0.54	31	1.81	1.39
C50 / Breast		332	19.44	14.88	8	0.47	0.36	340	19.91	15.24
C51 / Vulva		1	0.06	0.09	0	0.00	0.00	1	0.06	0.09

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C53 / Cervix uteri		13	0.76	1.18	0	0.00	0.00	13	0.76	1.18
C54 / Corpus uteri		5	0.29	0.45	0	0.00	0.00	5	0.29	0.45
C55 / Uterus unspecified		45	2.63	4.08	0	0.00	0.00	45	2.63	4.08
C56 / Ovary		40	2.34	3.62	0	0.00	0.00	40	2.34	3.62
C60 / Penis		0	0.00	0.00	1	0.06	0.09	1	0.06	0.09
C61 / Prostate		0	0.00	0.00	75	4.39	6.65	75	4.39	6.65
C62 / Testis		0	0.00	0.00	14	0.82	1.24	14	0.82	1.24
C64 / Kidney		19	1.11	0.85	32	1.87	1.43	51	2.99	2.29
C65 / Pelvis		1	0.06	0.04	0	0.00	0.00	1	0.06	0.04
C66 / Ureter		0	0.00	0.00	1	0.06	0.04	1	0.06	0.04
C67 / Urinary bladder		29	1.70	1.30	67	3.92	3.00	96	5.62	4.30
C69 / Eye & Adnexa		2	0.12	0.09	2	0.12	0.09	4	0.23	0.18
C70 / Meninges		3	0.18	0.13	2	0.12	0.09	5	0.29	0.22
C71 / Brain		30	1.76	1.34	40	2.34	1.79	70	4.10	3.14
C73 / Thyroid gland		56	3.28	2.51	23	1.35	1.03	79	4.63	3.54
C74 / Adrenal gland		2	0.12	0.09	2	0.12	0.09	4	0.23	0.18
C75 / Endocrine gland, other		5	0.29	0.22	0	0.00	0.00	5	0.29	0.22
C76 / Unspecified site		2	0.12	0.09	3	0.18	0.13	5	0.29	0.22
C77 / Lymph node	Hodgkin lymphoma	14	0.82	0.63	28	1.64	1.25	42	2.46	1.88
	Non-Hodgkin lymphoma	39	2.28	1.75	28	1.64	1.25	67	3.92	3.00
C80 / Unknown primary site		19	1.11	0.85	12	0.70	0.54	31	1.81	1.39
Total		948	55.50	42.49	760	44.50	34.06	1708	100.00	76.55

Note:

- * From C51 to C56 the incidence rate was calculated from the female population.
- * From C60 to C62 the incidence rate was calculated from the male population.

Diyala
Populations Number : 1768920
Cancer Cases Number : 1329
Incidence Rate: 75.13 /100,000 Diyala Populations



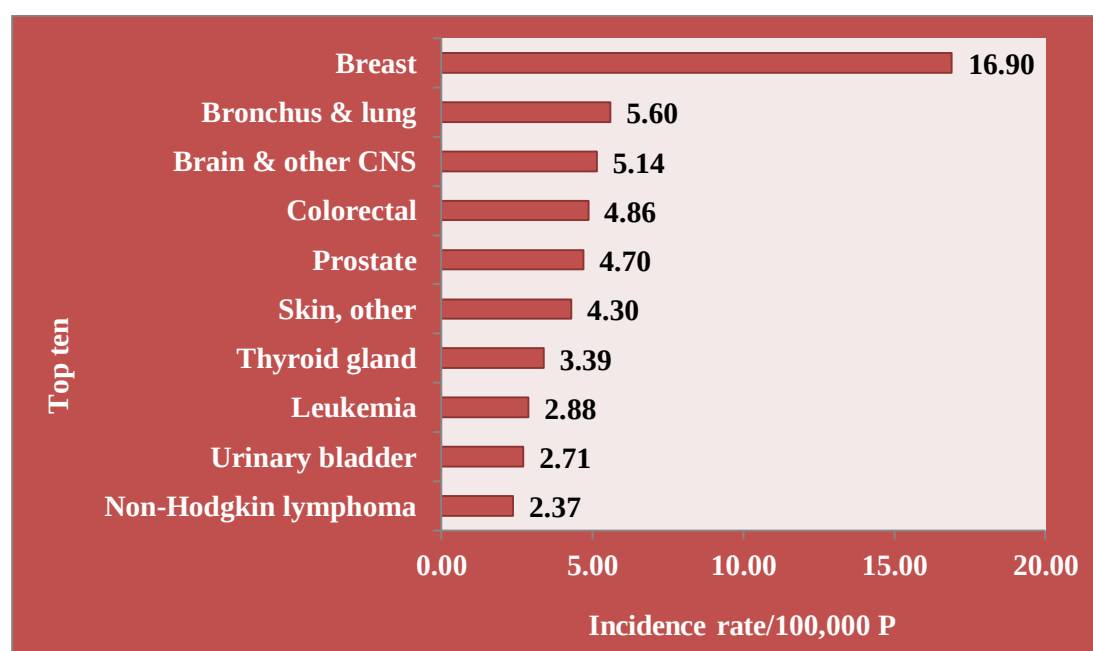
3.4.12. Diyala governorate

Table No.; (62), Figure No.; (47) shows that the highest number, percentage and crude incidence rate/100,000 P of the top ten cancer was breast cancer and the lowest prostate cancer.

Table No.; (62) Number and percentage of the top ten cancers in Diyala, Iraq, 2021

Top ten	No.	%
1 Breast	299	33.45
2 Bronchus & lung	99	11.07
3 Brain & other CNS	91	10.18
4 Colorectal	86	9.62
5 Skin, other	76	8.50
6 Thyroid gland	60	6.71
7 Leukemia	51	5.70
8 Urinary bladder	48	5.37
9 Non-Hodgkin lymphoma	42	4.70
10 Prostate	42	4.70
Total top ten	894	100.00%

Figure No.; (47) Crude incidence rate of the top ten cancer in Diyala /100,000 Diyala populations, Iraq, 2021



The prostate incidence rate is calculated from the male populations.

Table No.; (63), Figure No.; (48) shows that the highest percentage and crude incidence rate/100,000 MP of the top ten cancer in male was bronchus & lung cancer and the lowest stomach cancer.

Table No.; (63) Number and percentage of the top ten cancers in males, Diyala, Iraq, 2021

Top ten	No.	No.
1 Bronchus & lung	69	18.02
2 Colorectal	48	12.53
3 Brain & other CNS	47	12.27
4 Skin, other	44	11.49
5 Prostate	42	10.97
6 Urinary bladder	38	9.92
7 Leukemia	28	7.31
8 Liver	27	7.05
9 Pancreas	20	5.22
10 Stomach	20	5.22
Total top ten	383	100.00%

Figure No.; (48) Crude incidence rate of the top ten cancers in males / 100,000 male populations, Diyala, Iraq, 2021

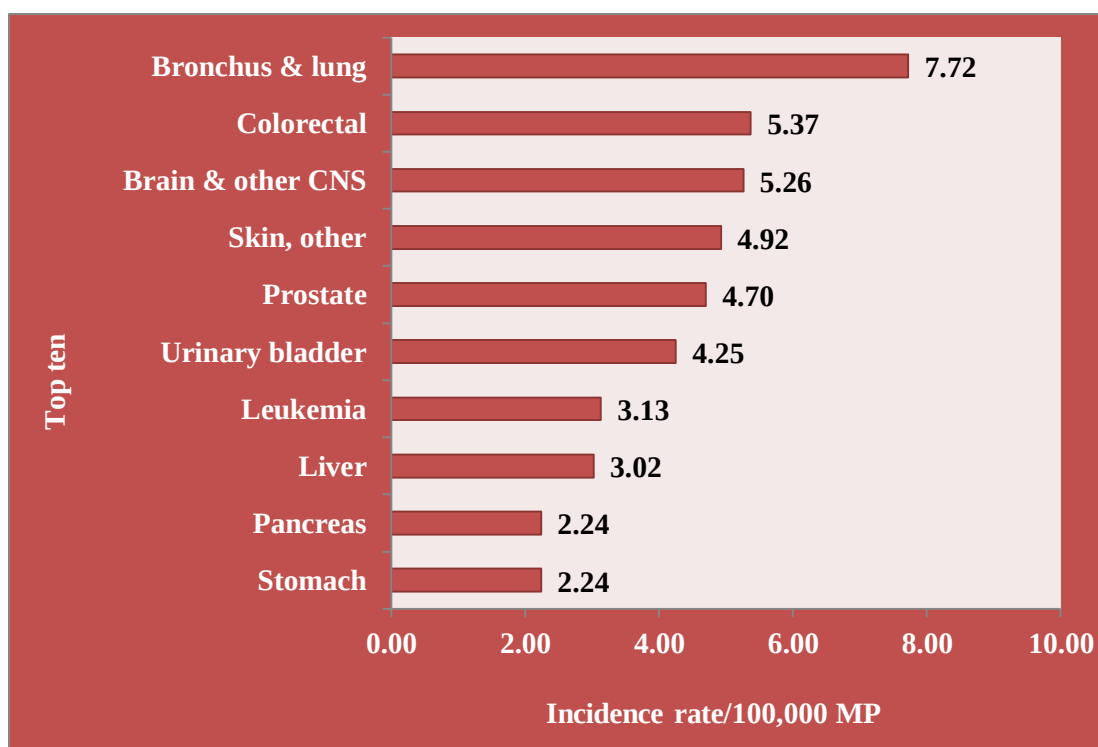


Table No.; (64), Figure No.; (49) shows that the highest percentage and crude incidence rate/100,000 FP of the top ten cancer in female was breast cancer and the lowest leukemia.

Table No.; (64) Number and percentage of the top ten cancers in females, Diyala, Iraq, 2021

Top ten	No.	No.
1 Breast	296	48.68
2 Thyroid gland	50	8.22
3 Brain & other CNS	44	7.24
4 Uterus unspecified	39	6.41
5 Colorectal	38	6.25
6 Ovary	32	5.26
7 Skin, other	32	5.26
8 Bronchus & lung	30	4.93
9 Non-Hodgkin lymphoma	24	3.95
10 Leukemia	23	3.78
Total top ten	608	100.00%

Figure No.; (49) Crude incidence rate of the top ten cancers in females / 100,000 female populations, Diyala, Iraq, 2021

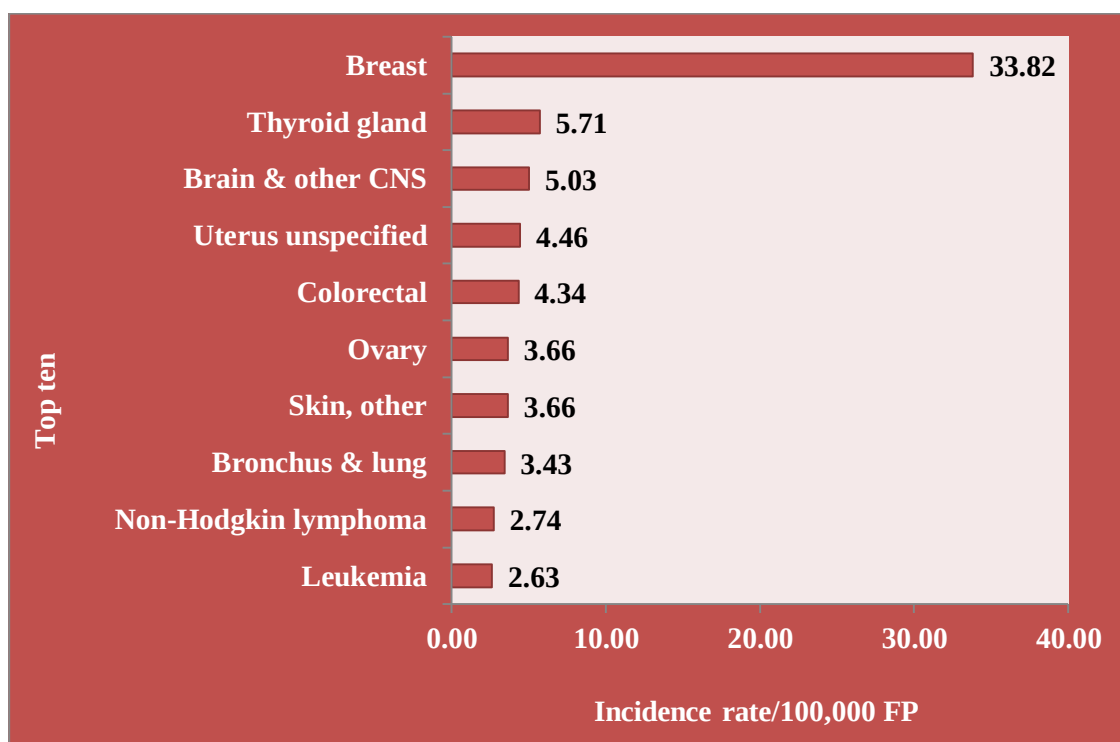


Table No.; (65) Number, percentage and the crude incidence rate/100,000 Diyala population of cancer by ICD-O code, site of tumor and gender, in Diyala, Iraq, 2021

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C00 /Lip		0	0.00	0.00	1	0.08	0.06	1	0.08	0.06
C01 / Tongue, base		1	0.08	0.06	0	0.00	0.00	1	0.08	0.06
C04 / Mouth - floor		1	0.08	0.06	0	0.00	0.00	1	0.08	0.06
C05 / Mouth - palate		1	0.08	0.06	0	0.00	0.00	1	0.08	0.06
C07 / Parotid gland		0	0.00	0.00	2	0.15	0.11	2	0.15	0.11
C08 / Mouth glands		1	0.08	0.06	1	0.08	0.06	2	0.15	0.11
C11 / Nasopharynx		3	0.23	0.17	2	0.15	0.11	5	0.38	0.28
C13 / Hypopharynx		2	0.15	0.11	1	0.08	0.06	3	0.23	0.17
C14 / Pharynx		1	0.08	0.06	0	0.00	0.00	1	0.08	0.06
C15 / Oesophagus		7	0.53	0.40	4	0.30	0.23	11	0.83	0.62
C16 / Stomach		17	1.28	0.96	20	1.50	1.13	37	2.78	2.09
C17 / Small intestine		12	0.90	0.68	3	0.23	0.17	15	1.13	0.85
C18 / Colon		21	1.58	1.19	23	1.73	1.30	44	3.31	2.49
C19 / Recto sigmoid Junction		4	0.30	0.23	8	0.60	0.45	12	0.90	0.68
C20 / Rectum		13	0.98	0.73	17	1.28	0.96	30	2.26	1.70
C21 / Anus & anal canal		1	0.08	0.06	0	0.00	0.00	1	0.08	0.06
C22 / Liver & bile ducts		13	0.98	0.73	27	2.03	1.53	40	3.01	2.26
C23 / Gallbladder		2	0.15	0.11	1	0.08	0.06	3	0.23	0.17
C24 / Biliary tract , other		3	0.23	0.17	4	0.30	0.23	7	0.53	0.40
C25 / Pancreas		14	1.05	0.79	20	1.50	1.13	34	2.56	1.92
C26 / Other digestive organs		1	0.08	0.06	3	0.23	0.17	4	0.30	0.23
C30 / Nasal cavity		2	0.15	0.11	0	0.00	0.00	2	0.15	0.11
C32 / Larynx		6	0.45	0.34	7	0.53	0.40	13	0.98	0.73
C34 / Bronchus & lung		30	2.26	1.70	69	5.19	3.90	99	7.45	5.60
C39 / Other respiratory & thoracic		0	0.00	0.00	1	0.08	0.06	1	0.08	0.06
C40 / Bone & cartilage, limbs		5	0.38	0.28	8	0.60	0.45	13	0.98	0.73
C41 / Bones & cartilage, other		3	0.23	0.17	7	0.53	0.40	10	0.75	0.57
C42 / Reticulo endothelial & Hemato poietic system	Chronic Myelo proliferative disorders	2	0.15	0.11	2	0.15	0.11	4	0.30	0.23
	Leukemia	23	1.73	1.30	28	2.11	1.58	51	3.84	2.88
	Myelo dysplastic syndromes	0	0.00	0.00	2	0.15	0.11	2	0.15	0.11
	Plasma cell tumor	1	0.08	0.06	3	0.23	0.17	4	0.30	0.23
C44 / Skin, other		32	2.41	1.81	44	3.31	2.49	76	5.72	4.30
C47 /Nerves system		0	0.00	0.00	2	0.15	0.11	2	0.15	0.11
C48 / Peritoneum		2	0.15	0.11	0	0.00	0.00	2	0.15	0.11
C49 / Soft tissues		5	0.38	0.28	11	0.83	0.62	16	1.20	0.90
C50 / Breast		296	22.27	16.73	3	0.23	0.17	299	22.50	16.90
C52 / Vagina		1	0.08	0.11	0	0.00	0.00	1	0.08	0.11

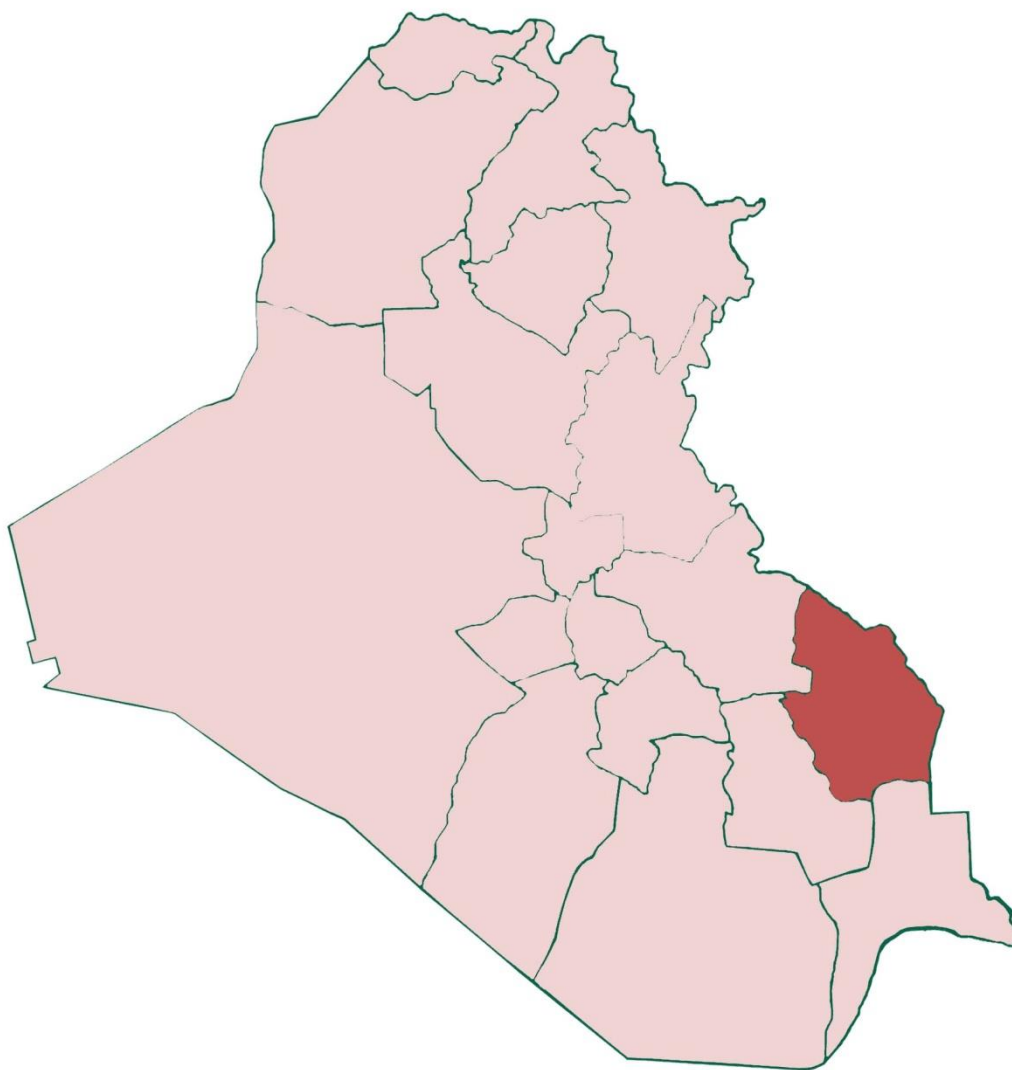
ICD-O code/site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C53 / Cervix uteri	10	0.75	1.14	0	0.00	0.00	10	0.75	1.14
C54 / Corpus uteri	19	1.43	2.17	0	0.00	0.00	19	1.43	2.17
C55 / Uterus unspecified	39	2.93	4.46	0	0.00	0.00	39	2.93	4.46
C56 / Ovary	32	2.41	3.66	0	0.00	0.00	32	2.41	3.66
C57 / Female genital - other	1	0.08	0.11	0	0.00	0.00	1	0.08	0.11
C58 / Placenta	2	0.15	0.23	0	0.00	0.00	2	0.15	0.23
C60 / Penis	0	0.00	0.00	1	0.08	0.11	1	0.08	0.11
C61 / Prostate	0	0.00	0.00	42	3.16	4.70	42	3.16	4.70
C62 / Testis	0	0.00	0.00	9	0.68	1.01	9	0.68	1.01
C64 / Kidney	7	0.53	0.40	15	1.13	0.85	22	1.66	1.24
C65 / Pelvis	1	0.08	0.06	5	0.38	0.28	6	0.45	0.34
C66 / Ureter	0	0.00	0.00	1	0.08	0.06	1	0.08	0.06
C67 / Urinary bladder	10	0.75	0.57	38	2.86	2.15	48	3.61	2.71
C68 / Urinary organs, other	0	0.00	0.00	2	0.15	0.11	2	0.15	0.11
C69 / Eye & Adnexa	3	0.23	0.17	4	0.30	0.23	7	0.53	0.40
C70 / Meninges	5	0.38	0.28	1	0.08	0.06	6	0.45	0.34
C71 / Brain	37	2.78	2.09	43	3.24	2.43	80	6.02	4.52
C72 / Nervous system, other	2	0.15	0.11	2	0.15	0.11	4	0.30	0.23
C73 / Thyroid gland	50	3.76	2.83	10	0.75	0.57	60	4.51	3.39
C74 / Adrenal gland	0	0.00	0.00	2	0.15	0.11	2	0.15	0.11
C75 / Endocrine gland, other	1	0.08	0.06	1	0.08	0.06	2	0.15	0.11
C76 / Unspecified site	2	0.15	0.11	1	0.08	0.06	3	0.23	0.17
C77 / Hodgkin lymphoma	10	0.75	0.57	14	1.05	0.79	24	1.81	1.36
Lymph node Non-Hodgkin lymphoma	24	1.81	1.36	18	1.35	1.02	42	3.16	2.37
C80 / Unknown primary site	8	0.60	0.45	7	0.53	0.40	15	1.13	0.85
Total	789	59.37	44.60	540	40.63	30.53	1329	100.00	75.13

Note:

* From C52 to C58 the incidence rate was calculated from the female population.

* From C60 to C62 the incidence rate was calculated from the male population.

Misan
Populations Number : 1202175
Cancer Cases Number : 849
Incidence Rate: 70.62/100,000 Misan Populations



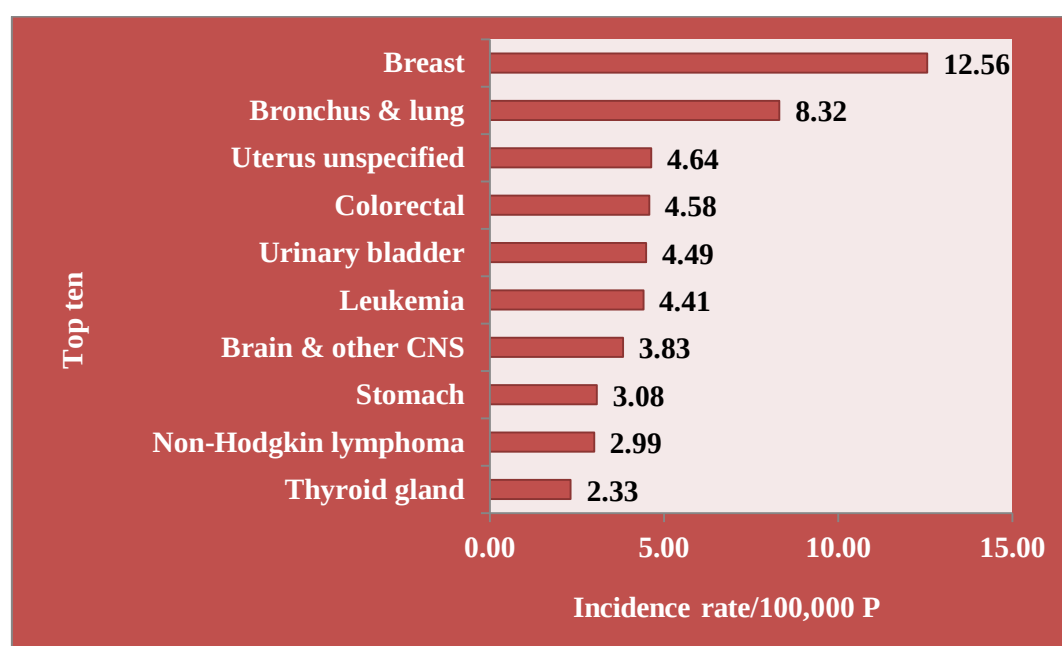
3.4.13. Misan governorate

Table No.; (66), Figure No.; (50) shows that the highest number, percentage and crude incidence rate/100,000 P of the top ten cancer was breast cancer and the lowest uterus unspecified cancer.

Table No.; (66) Number and percentage of the top ten cancers in Misan, Iraq, 2021

Top ten	No.	%
1 Breast	151	25.68
2 Bronchus & lung	100	17.01
3 Colorectal	55	9.35
4 Urinary bladder	54	9.18
5 Leukemia	53	9.01
6 Brain & other CNS	46	7.82
7 Stomach	37	6.29
8 Non-Hodgkin lymphoma	36	6.12
9 Thyroid gland	28	4.76
10 Uterus unspecified	28	4.76
Total top ten	588	69.26

Figure No.; (50) Crude incidence rate of the top ten cancers in Misan /100,000 Misan populations, Iraq, 2021



The uterus unspecified incidence rate is calculated from the female populations.

Table No.; (67), Figure No.; (51) shows that the highest number, percentage and crude incidence rate/100,000 MP of the top ten cancer in male was bronchus & lung cancer and the lowest pancreas cancer.

**Table No.; (67) Number and percentage of the top ten cancers in males,
Misan, Iraq, 2021**

Top ten	No.	%
1 Bronchus & lung	67	23.34
2 Urinary bladder	40	13.94
3 Leukemia	34	11.85
4 Colorectal	28	9.76
5 Prostate	26	9.06
6 Brain & other CNS	22	7.67
7 Stomach	22	7.67
8 Non-Hodgkin lymphoma	19	6.62
9 Liver	15	5.23
10 Pancreas	14	4.88
Total top ten	287	100.00%

**Figure No.; (51) Crude incidence rate of the top ten cancers in males /
100,000 male populations, Misan, Iraq, 2021**

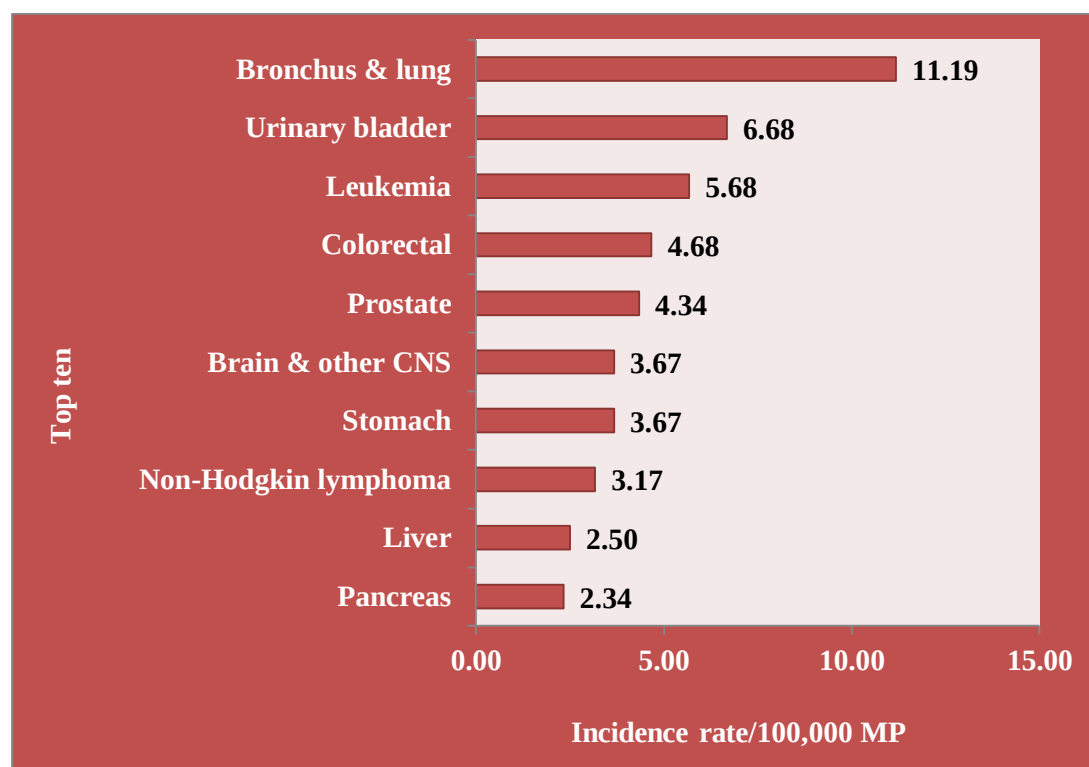


Table No.; (68), Figure No.; (52) shows that the highest percentage and crude incidence rate/100,000 FP of the top ten cancer in female was breast cancer and the lowest urinary bladder cancer.

Table No.; (68) Number and percentage of the top ten cancers in females, Misan, Iraq, 2021

Top ten	No.	%
1 Breast	150	43.23
2 Bronchus & lung	33	9.51
3 Uterus unspecified	28	8.07
4 Colorectal	27	7.78
5 Brain & other CNS	24	6.92
6 Thyroid gland	20	5.76
7 Leukemia	19	5.48
8 Non-Hodgkin lymphoma	17	4.90
9 Stomach	15	4.32
10 Urinary bladder	14	4.03
Total top ten	347	100.00%

Figure No.; (52) Crude incidence rate of the top ten cancers in females / 100,000 female populations, Misan, Iraq, 2021

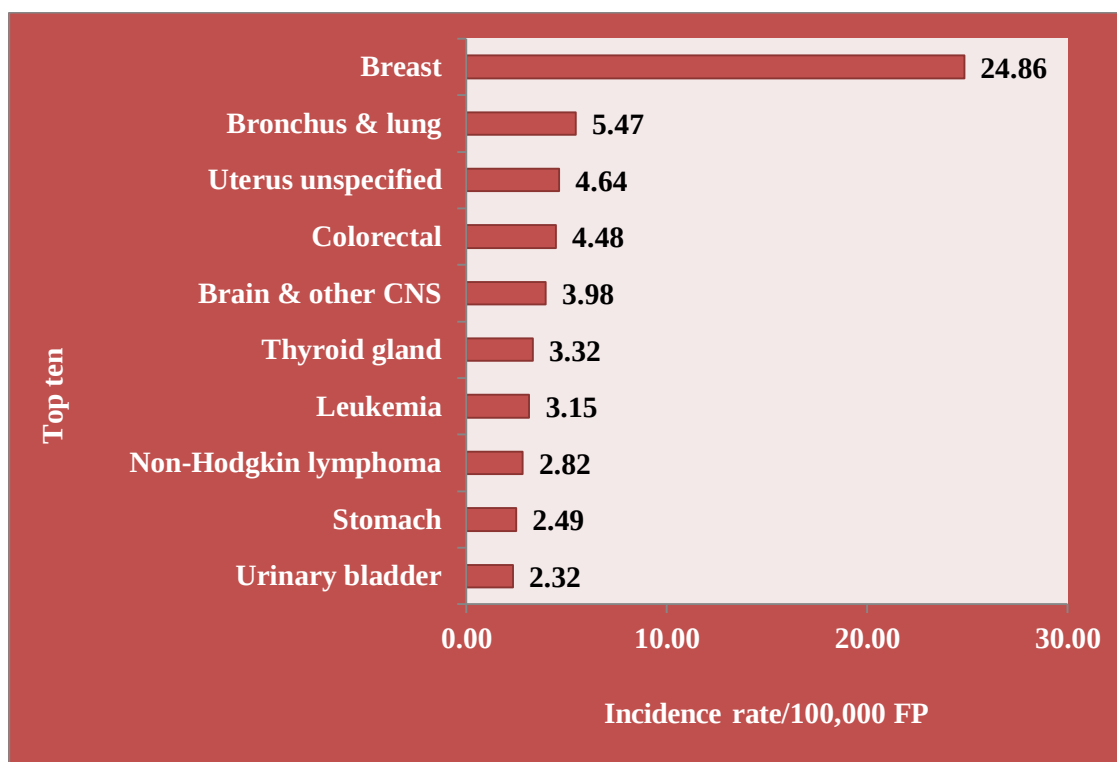


Table No.; (69) Number, percentage and the crude incidence rate/100,000 Misan population of cancer by ICD-O code, site of tumor and gender, in Misan, Iraq, 2021

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C01 / Tongue, base		1	0.12	0.08	0	0.00	0.00	1	0.12	0.08
C02 / Tongue, other		1	0.12	0.08	3	0.35	0.25	4	0.47	0.33
C08 / Mouth glands		0	0.00	0.00	1	0.12	0.08	1	0.12	0.08
C10 / Oropharynx		3	0.35	0.25	1	0.12	0.08	4	0.47	0.33
C11 / Nasopharynx		4	0.47	0.33	9	1.06	0.75	13	1.53	1.08
C13 / Hypopharynx		2	0.24	0.17	0	0.00	0.00	2	0.24	0.17
C15 / Oesophagus		2	0.24	0.17	3	0.35	0.25	5	0.59	0.42
C16 / Stomach		15	1.77	1.25	22	2.59	1.83	37	4.36	3.08
C17 / Small intestine		5	0.59	0.42	3	0.35	0.25	8	0.94	0.67
C18 / Colon		22	2.59	1.83	19	2.24	1.58	41	4.83	3.41
C20 / Rectum		5	0.59	0.42	9	1.06	0.75	14	1.65	1.16
C21 / Anus & anal canal		1	0.12	0.08	0	0.00	0.00	1	0.12	0.08
C22 / Liver & bile ducts		8	0.94	0.67	15	1.77	1.25	23	2.71	1.91
C23 / Gallbladder		3	0.35	0.25	0	0.00	0.00	3	0.35	0.25
C24 / Biliary tract , other		2	0.24	0.17	1	0.12	0.08	3	0.35	0.25
C25 / Pancreas		12	1.41	1.00	14	1.65	1.16	26	3.06	2.16
C32 / Larynx		3	0.35	0.25	12	1.41	1.00	15	1.77	1.25
C34 / Bronchus & lung		33	3.89	2.75	67	7.89	5.57	100	11.78	8.32
C40 / Bone & cartilage, limbs		1	0.12	0.08	4	0.47	0.33	5	0.59	0.42
C41 / Bones & cartilage, other		6	0.71	0.50	4	0.47	0.33	10	1.18	0.83
C42 / Reticulo endothelial & Hemato poietic System	Chronic Myeloprolifera tive disorders	3	0.35	0.25	1	0.12	0.08	4	0.47	0.33
	Immunoprolifr ative diseases	1	0.12	0.08	2	0.24	0.17	3	0.35	0.25
	Leukemia	19	2.24	1.58	34	4.00	2.83	53	6.24	4.41
	Myelodys plastic syndromes	0	0.00	0.00	1	0.12	0.08	1	0.12	0.08
	Plasma cell tumor	5	0.59	0.42	0	0.00	0.00	5	0.59	0.42
C44 / Skin, other		7	0.82	0.58	8	0.94	0.67	15	1.77	1.25
C47 /Nerves system		0	0.00	0.00	1	0.12	0.08	1	0.12	0.08
C48 / Peritoneum		0	0.00	0.00	2	0.24	0.17	2	0.24	0.17
C49 / Soft tissues		6	0.71	0.50	4	0.47	0.33	10	1.18	0.83
C50 / Breast		150	17.67	12.48	1	0.12	0.08	151	17.79	12.56
C51 / Vulva		2	0.24	0.33	0	0.00	0.00	2	0.24	0.33
C52 / Vagina		1	0.12	0.17	0	0.00	0.00	1	0.12	0.17
C53 / Cervix uteri		2	0.24	0.33	0	0.00	0.00	2	0.24	0.33

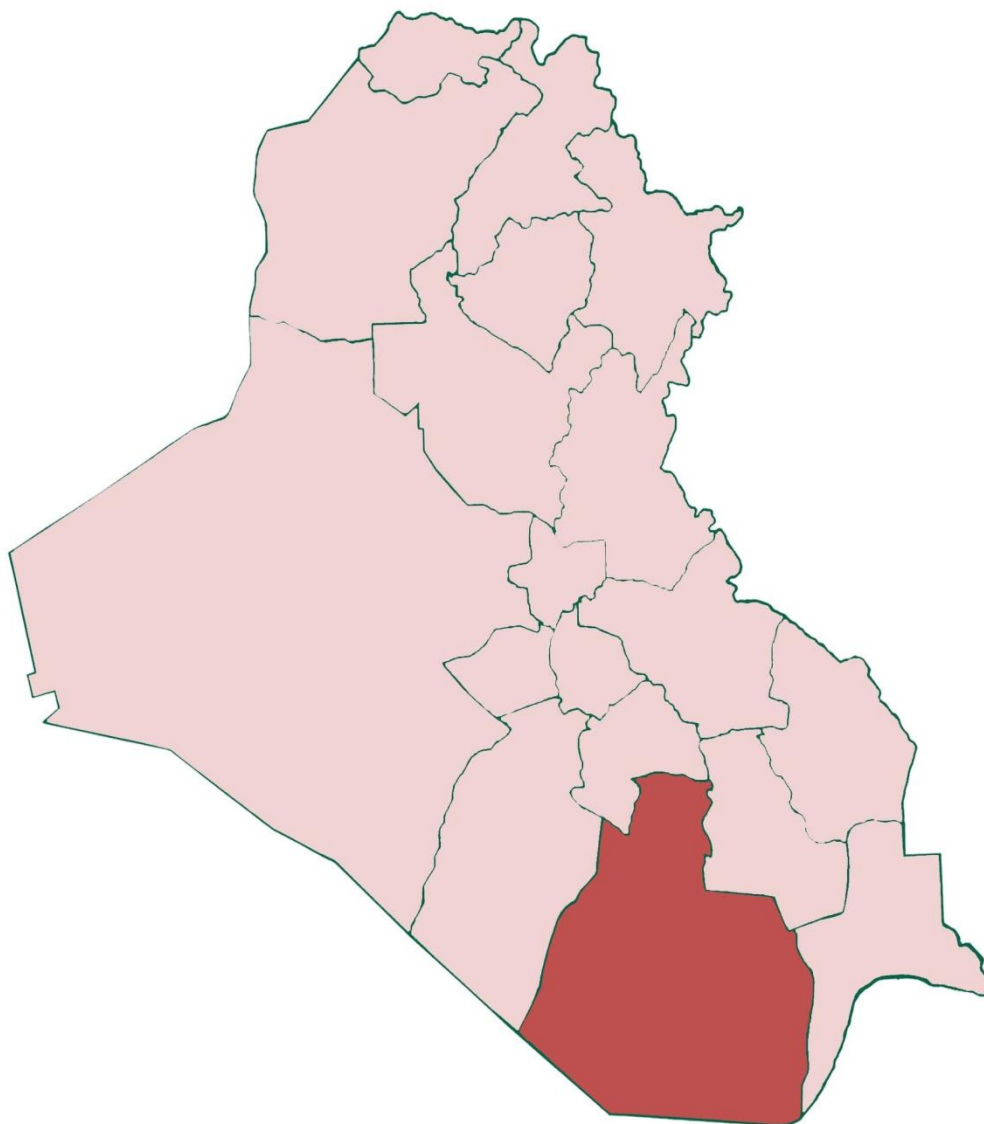
ICD-O code/site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C54 / Corpus uteri	4	0.47	0.66	0	0.00	0.00	4	0.47	0.66
C55 / Uterus unspecified	28	3.30	4.64	0	0.00	0.00	28	3.30	4.64
C56 / Ovary	13	1.53	2.15	0	0.00	0.00	13	1.53	2.15
C61 / Prostate	0	0.00	0.00	26	3.06	4.34	26	3.06	4.34
C62 / Testis	0	0.00	0.00	3	0.35	0.50	3	0.35	0.50
C64 / Kidney	13	1.53	1.08	8	0.94	0.67	21	2.47	1.75
C65 / Pelvis	0	0.00	0.00	1	0.12	0.08	1	0.12	0.08
C66 / Ureter	0	0.00	0.00	1	0.12	0.08	1	0.12	0.08
C67 / Urinary bladder	14	1.65	1.16	40	4.71	3.33	54	6.36	4.49
C69 / Eye & Adnexa	1	0.12	0.08	0	0.00	0.00	1	0.12	0.08
C70 / Meninges	4	0.47	0.33	0	0.00	0.00	4	0.47	0.33
C71 / Brain	19	2.24	1.58	21	2.47	1.75	40	4.71	3.33
C72 / Nervous system, other	0	0.00	0.00	1	0.12	0.08	1	0.12	0.08
C73 / Thyroid gland	20	2.36	1.66	8	0.94	0.67	28	3.30	2.33
C74 / Adrenal gland	2	0.24	0.17	0	0.00	0.00	2	0.24	0.17
C75 / Endocrine gland, other	1	0.12	0.08	0	0.00	0.00	1	0.12	0.08
C76 / Unspecified site	1	0.12	0.08	0	0.00	0.00	1	0.12	0.08
C77 / Hodgkin lymphoma	7	0.82	0.58	3	0.35	0.25	10	1.18	0.83
Lymph node Non-Hodgkin lymphoma	17	2.00	1.41	19	2.24	1.58	36	4.24	2.99
C80 / Unknown primary site	3	0.35	0.25	5	0.59	0.42	8	0.94	0.67
Total	472	55.59	39.26	377	44.41	31.36	849	100.00	70.62

Note:

* From C51 to C56 the incidence rate was calculated from the female population.

* From C61 to C62 the incidence rate was calculated from the male population.

Al-Muthana
Populations Number : 879874
Cancer Cases Number : 611
Incidence Rate:69.44/100,000 Al-Muthana Populations



3.4.14. Al-Muthana governorate

Table No.; (70), Figure No.; (53) shows that the highest number, percentage and crude incidence rate/100,000 P of the top ten cancer was breast cancer and the lowest stomach cancer.

Table No.; (70) Number and percentage of the top ten cancers, Al-Muthana, Iraq, 2021

Top ten	No.	%
1 Breast	103	24.76
2 Bronchus & lung	74	17.79
3 Leukemia	44	10.58
4 Urinary bladder	41	9.86
5 Colorectal	31	7.45
6 Thyroid gland	29	6.97
7 Non-Hodgkin lymphoma	27	6.49
8 Brain & other CNS	25	6.01
9 Pancreas	21	5.05
10 Stomach	21	5.05
Total top ten	416	100.00%

Figure No.; (53) Incidence rate of the top ten cancers in Al-Muthana /100,000 Al-Muthana populations, Iraq, 2021

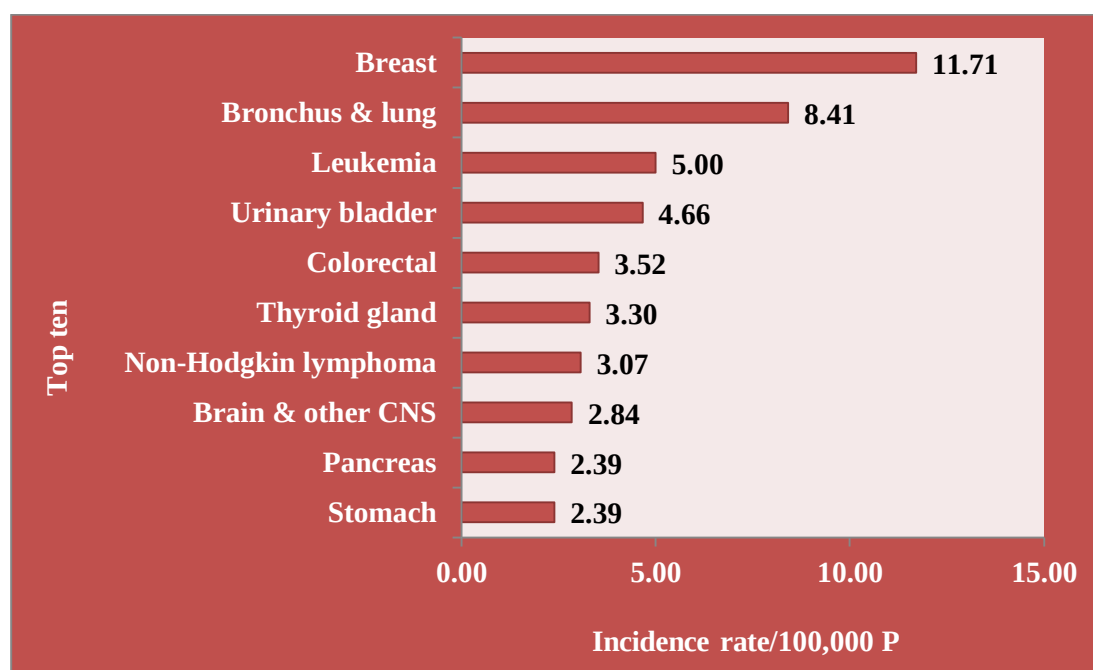


Table No.; (71), Figure No.; (54) shows that the highest number, percentage and crude incidence rate/100,000 MP of the top ten cancer in male was bronchus & lung cancer and the lowest thyroid gland cancer.

**Table No.; (71) Number and percentage of the top ten cancers in males,
Al-Muthana, Iraq, 2021**

Top ten	No.	%
1 Bronchus & lung	42	21.11
2 Urinary bladder	30	15.08
3 Leukemia	29	14.57
4 Prostate	18	9.05
5 Non-Hodgkin lymphoma	17	8.54
6 Kidney	15	7.54
7 Colorectal	14	7.04
8 Liver	12	6.03
9 Pancreas	12	6.03
10 Thyroid gland	10	5.03
Total top ten	199	100.00%

**Figure No.; (54) Crude incidence rate of the top ten cancers in males / 100,000
male populations, Al-Muthana, Iraq, 2021**

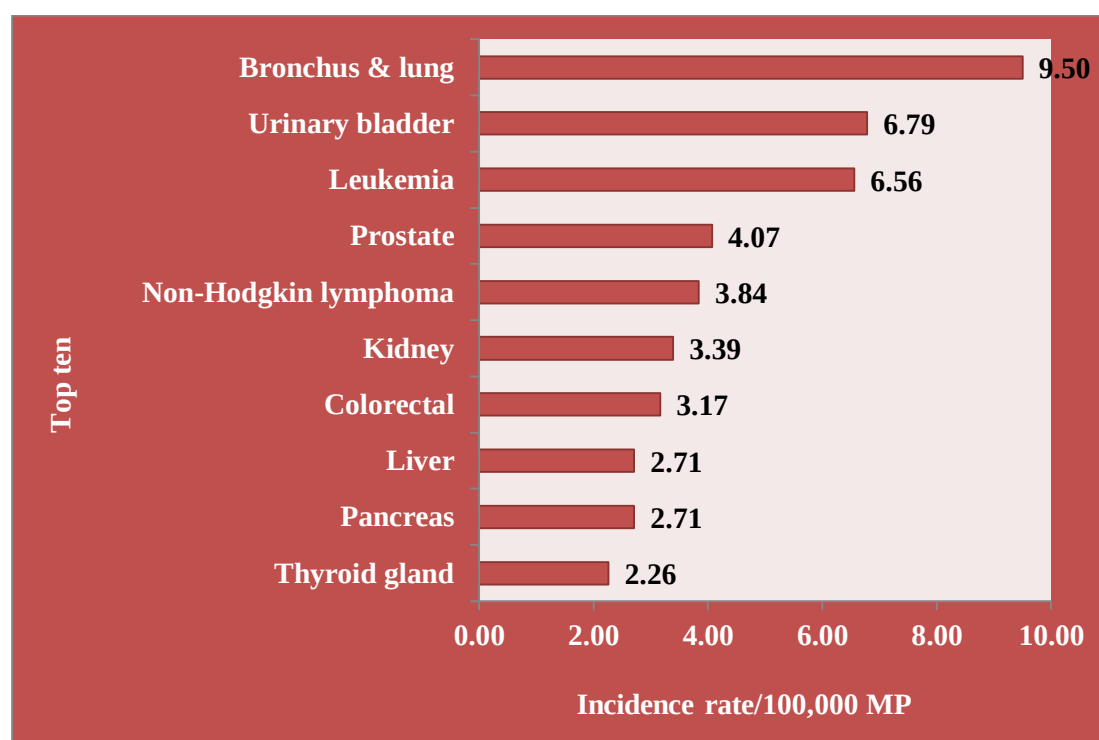


Table No.; (72), Figure No.; (55) shows that the highest percentage and crude incidence rate/100,000 FP of the top ten cancer in female was breast cancer and the lowest uterus unspecified cancer.

Table No.; (72) Number and percentage of the top ten cancers in females, Al-Muthana, Iraq, 2021

Top ten	No.	%
1 Breast	101	41.06
2 Bronchus & lung	32	13.01
3 Thyroid gland	19	7.72
4 Colorectal	17	6.91
5 Brain & other CNS	16	6.50
6 Leukemia	15	6.10
7 Stomach	13	5.28
8 Ovary	11	4.47
9 Urinary bladder	11	4.47
10 Uterus unspecified	11	4.47
Total top ten	246	100.00%

Figure No.; (55) Crude incidence rate of the top ten cancers in females / 100,000 female populations, Al-Muthana, Iraq, 2021

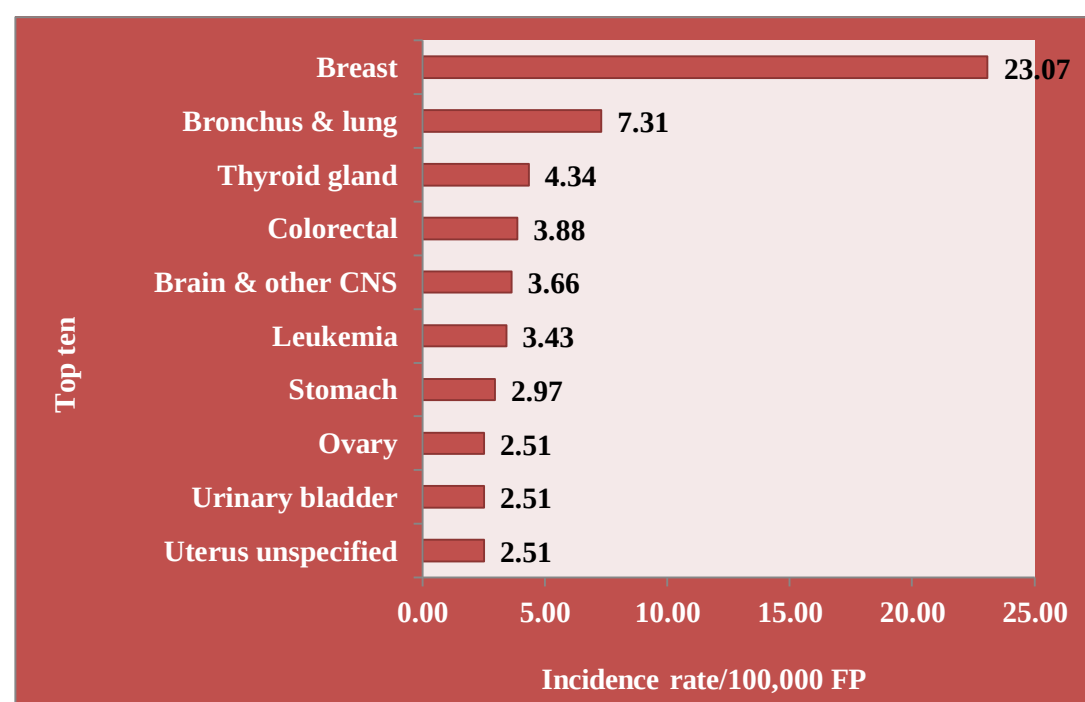


Table No.; (73) Number, percentage and the crude incidence rate/100,000 Al-Muthana population of cancer by ICD-O code, site of tumor and gender, in Al-Muthana, Iraq, 2021

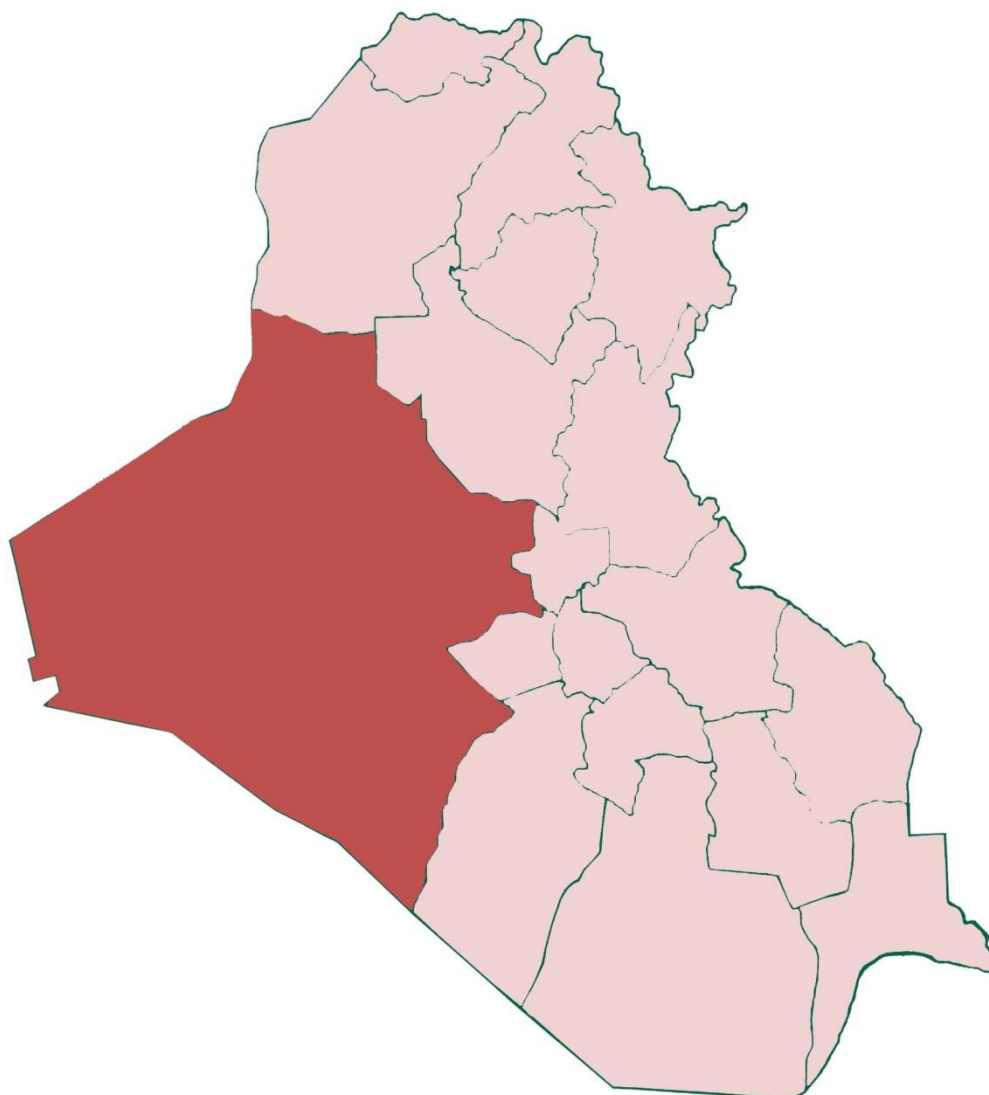
ICD-O code/site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C01 / Tongue, base	1	0.16	0.11	1	0.16	0.11	2	0.33	0.23
C02 / Tongue, other	2	0.33	0.23	2	0.33	0.23	4	0.65	0.45
C06 / Mouth - other	0	0.00	0.00	1	0.16	0.11	1	0.16	0.11
C07 / Parotid gland	0	0.00	0.00	1	0.16	0.11	1	0.16	0.11
C08 / Mouth glands	1	0.16	0.11	1	0.16	0.11	2	0.33	0.23
C10 / Oropharynx	0	0.00	0.00	1	0.16	0.11	1	0.16	0.11
C11 / Nasopharynx	2	0.33	0.23	4	0.65	0.45	6	0.98	0.68
C15 / Oesophagus	2	0.33	0.23	2	0.33	0.23	4	0.65	0.45
C16 / Stomach	13	2.13	1.48	8	1.31	0.91	21	3.44	2.39
C17 / Small intestine	1	0.16	0.11	1	0.16	0.11	2	0.33	0.23
C18 / Colon	11	1.80	1.25	6	0.98	0.68	17	2.78	1.93
C20 / Rectum	6	0.98	0.68	8	1.31	0.91	14	2.29	1.59
C22 / Liver & bile ducts	3	0.49	0.34	12	1.96	1.36	15	2.45	1.70
C23 / Gallbladder	5	0.82	0.57	1	0.16	0.11	6	0.98	0.68
C24 / Biliary tract , other	2	0.33	0.23	0	0.00	0.00	2	0.33	0.23
C25 / Pancreas	9	1.47	1.02	12	1.96	1.36	21	3.44	2.39
C31 / Accessory sinus	0	0.00	0.00	1	0.16	0.11	1	0.16	0.11
C32 / Larynx	2	0.33	0.23	5	0.82	0.57	7	1.15	0.80
C34 / Bronchus & lung	32	5.24	3.64	42	6.87	4.77	74	12.11	8.41
C37 / Thymus	0	0.00	0.00	1	0.16	0.11	1	0.16	0.11
C38 / Heart, Mediastinum, pleura	0	0.00	0.00	1	0.16	0.11	1	0.16	0.11
C40 / Bone & cartilage, limbs	3	0.49	0.34	2	0.33	0.23	5	0.82	0.57
C41 / Bones & cartilage, other	6	0.98	0.68	3	0.49	0.34	9	1.47	1.02
C42 / Reticulo endothelial & Hemato poietic System	Chronic Myelo proliferative disorders								
	0	0.00	0.00	2	0.33	0.23	2	0.33	0.23
	Leukemia								
	15	2.45	1.70	29	4.75	3.30	44	7.20	5.00
	Plasma cell tumor								
	5	0.82	0.57	4	0.65	0.45	9	1.47	1.02
C44 / Skin, other	4	0.65	0.45	7	1.15	0.80	11	1.80	1.25
C47 /Nerves system	0	0.00	0.00	1	0.16	0.11	1	0.16	0.11
C48 / Peritoneum	3	0.49	0.34	2	0.33	0.23	5	0.82	0.57
C49 / Soft tissues	6	0.98	0.68	4	0.65	0.45	10	1.64	1.14
C50 / Breast	101	16.53	11.48	2	0.33	0.23	103	16.86	11.71
C53 / Cervix uteri	2	0.33	0.46	0	0.00	0.00	2	0.33	0.46
C54 / Corpus uteri	2	0.33	0.46	0	0.00	0.00	2	0.33	0.46
C55 / Uterus unspecified	11	1.80	2.51	0	0.00	0.00	11	1.80	2.51
C56 / Ovary	11	1.80	2.51	0	0.00	0.00	11	1.80	2.51
C57 / Female genital - other	1	0.16	0.23	0	0.00	0.00	1	0.16	0.23
C61 / Prostate	0	0.00	0.00	18	2.95	4.07	18	2.95	4.07

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C62 / Testis		0	0.00	0.00	3	0.49	0.68	3	0.49	0.68
C64 / Kidney		5	0.82	0.57	15	2.45	1.70	20	3.27	2.27
C65 / Pelvis		1	0.16	0.11	0	0.00	0.00	1	0.16	0.11
C67 / Urinary bladder		11	1.80	1.25	30	4.91	3.41	41	6.71	4.66
C69 / Eye & Adnexa		1	0.16	0.11	0	0.00	0.00	1	0.16	0.11
C70 / Meninges		2	0.33	0.23	1	0.16	0.11	3	0.49	0.34
C71 / Brain		11	1.80	1.25	8	1.31	0.91	19	3.11	2.16
C73 / Thyroid gland		19	3.11	2.16	10	1.64	1.14	29	4.75	3.30
C74 / Adrenal gland		1	0.16	0.11	0	0.00	0.00	1	0.16	0.11
C75 / Endocrine gland, other		4	0.65	0.45	0	0.00	0.00	4	0.65	0.45
C77 / Lymph node	Hodgkin lymphoma	4	0.65	0.45	7	1.15	0.80	11	1.80	1.25
	Non-Hodgkin lymphoma	10	1.64	1.14	17	2.78	1.93	27	4.42	3.07
C80 / Unknown primary site		4	0.65	0.45	0	0.00	0.00	4	0.65	0.45
Total		335	54.83	38.07	276	45.17	31.37	611	100.00	69.44

Note:

- * From C53 to C57 the incidence rate was calculated from the female population.
- * From C61 to C62 the incidence rate was calculated from the male population.

Al-Anbar
Populations Number : 1914165
Cancer Cases Number : 1320
Incidence Rate : 68.96/100,000 Al-Anbar Populations



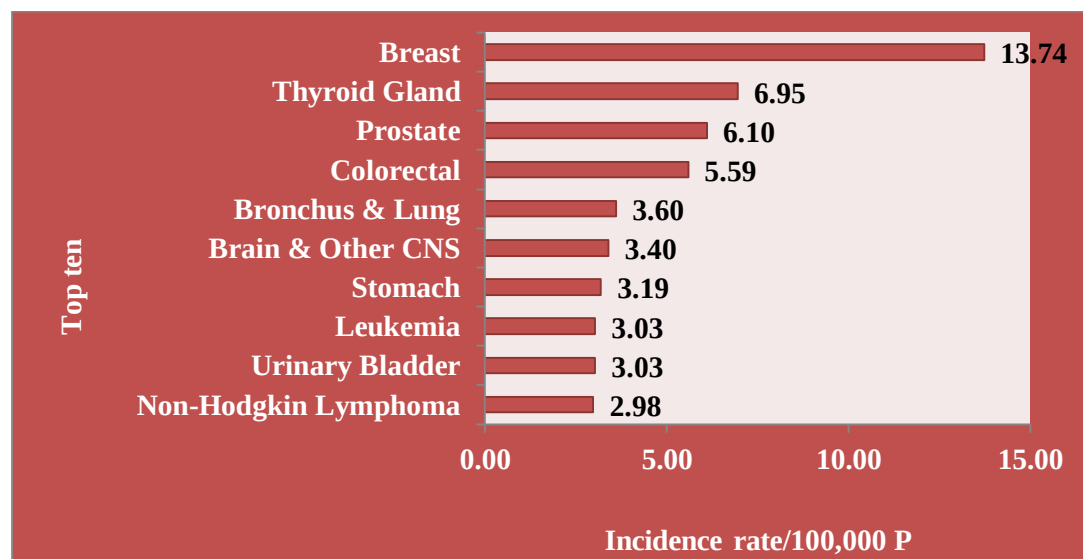
3.4.15. Al-Anbar governorate

Table No.; (74), Figure No.; (56) shows that the highest number, percentage and crude incidence rate/100,000 P of the top ten cancer was breast cancer and the lowest Non-Hodgkin lymphoma.

Table No.; (74) Number and percentage of the top ten cancers in Al-Anbar, Iraq, 2021

Top ten	No.	%
1 Breast	263	28.25
2 Thyroid Gland	133	14.29
3 Colorectal	107	11.49
4 Bronchus & Lung	69	7.41
5 Brain & Other CNS	65	6.98
6 Stomach	61	6.55
7 Prostate	60	6.44
8 Leukemia	58	6.23
9 Urinary Bladder	58	6.23
10 Non-Hodgkin lymphoma	57	6.12
Total top ten	931	100.00%

Figure No.; (56) Crude incidence rate of the top ten cancers in Al-Anbar /100,000 Al-Anbar populations, Iraq, 2021



The prostate incidence rate is calculated from the male populations.

Table No.; (75), Figure No.; (57) shows that the highest number, percentage and crude incidence rate/100,000 MP of the top ten cancer in male was prostate cancer and the lowest Hodgkin lymphoma.

**Table No.; (75) Number and percentage of the top ten cancers in males,
Al-Anbar, Iraq, 2021**

Top ten	No.	%
1 Prostate	60	15.63
2 Colorectal	54	14.06
3 Urinary Bladder	46	11.98
4 Bronchus & Lung	42	10.94
5 Non-Hodgkin Lymphoma	35	9.11
6 Brain & Other CNS	33	8.59
7 Stomach	33	8.59
8 Leukemia	32	8.33
9 Thyroid Gland	29	7.55
10 Hodgkin lymphoma	20	5.21
Total top ten	384	100.00%

**Figure No.; (57) Crude incidence rate of the top ten cancers in males / 100,000
male populations, Al-Anbar, Iraq, 2021**

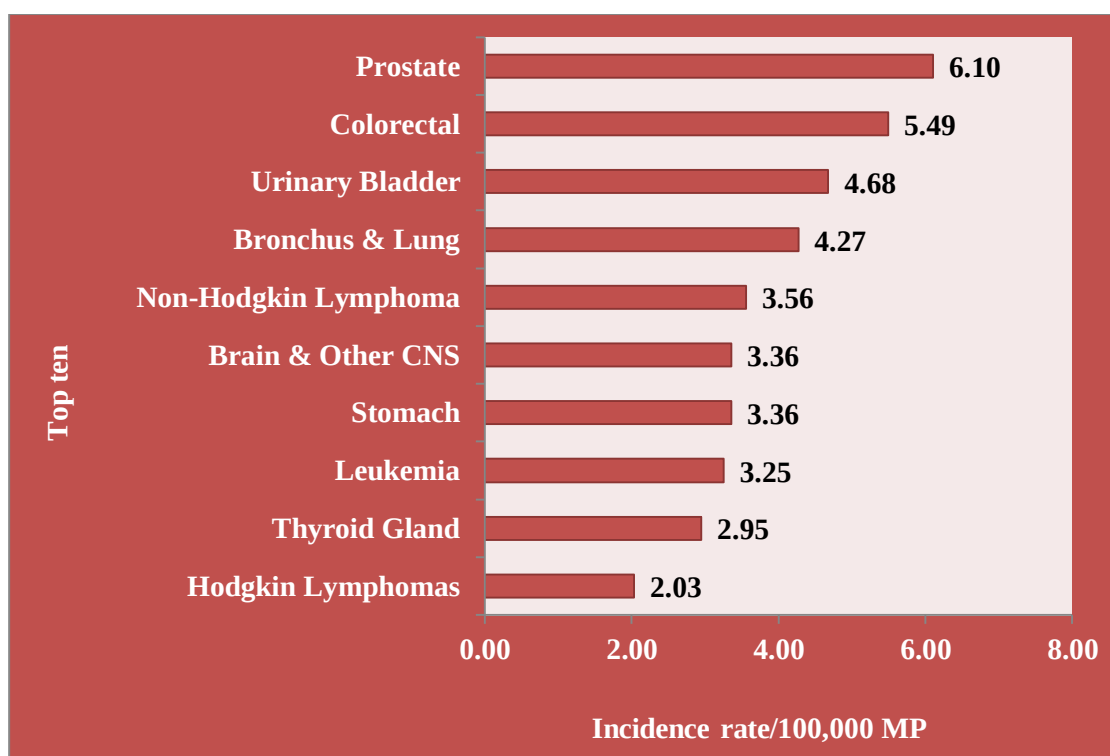


Table No.; (76), Figure No.; (58) shows that the highest number, percentage and crude incidence rate/100,000 FP of the top ten cancer in female was breast cancer and the lowest ovary cancer.

Table No.; (76) Number and percentage of the top ten cancers in females, Al-Anbar, Iraq, 2021

Top ten	No.	%
1 Breast	261	43.50
2 Thyroid Gland	104	17.33
3 Colorectal	53	8.83
4 Brain & Other CNS	32	5.33
5 Stomach	28	4.67
6 Bronchus & Lung	27	4.50
7 Leukemia	26	4.33
8 Corpus Uteri	25	4.17
9 Non-Hodgkin Lymphoma	22	3.67
10 Ovary	22	3.67
Total top ten	600	100.00%

Figure No.; (58) Crude incidence rate of the top ten cancers in females / 100,000 female populations, Al-Anbar, Iraq, 2021

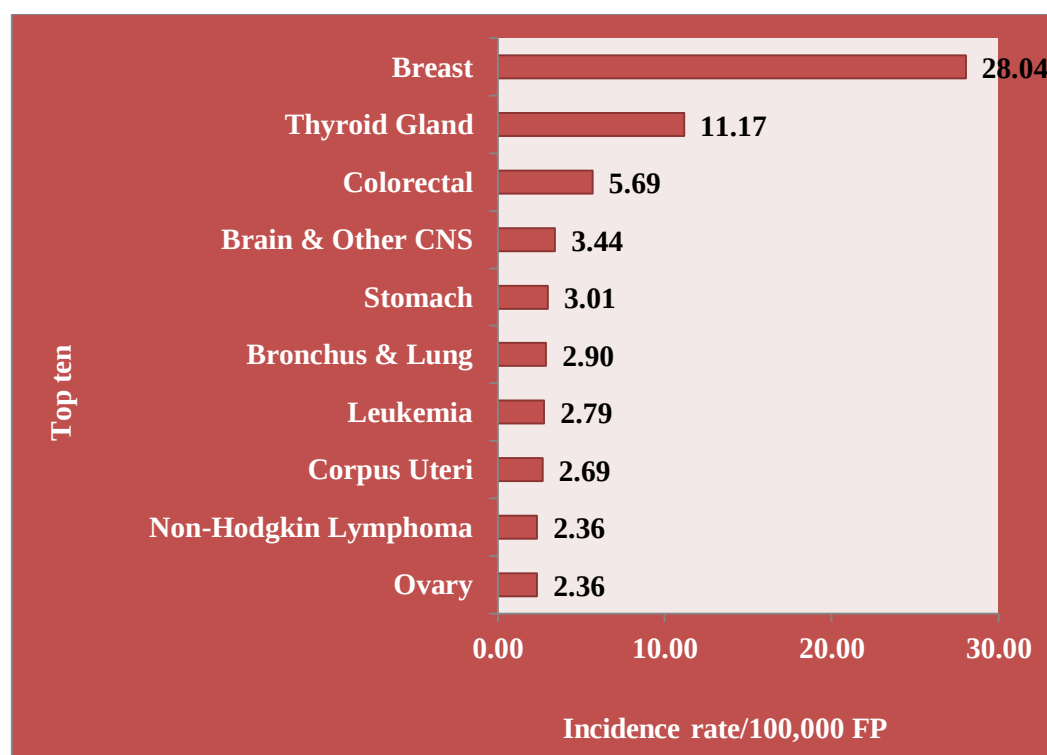


Table No.; (77) Number, percentage and the crude incidence rate/100,000 Al-Anbar population of cancer by ICD-O code, site of tumor and gender, in Al-Anbar, Iraq, 2021

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C00 /Lip		1	0.08	0.05	1	0.08	0.05	2	0.15	0.10
C01 / Tongue, base		1	0.08	0.05	2	0.15	0.10	3	0.23	0.16
C02 / Tongue, other		2	0.15	0.10	6	0.45	0.31	8	0.61	0.42
C04 / Mouth - floor		0	0.00	0.00	1	0.08	0.05	1	0.08	0.05
C05 / Mouth - palate		1	0.08	0.05	0	0.00	0.00	1	0.08	0.05
C06 / Mouth - other		1	0.08	0.05	1	0.08	0.05	2	0.15	0.10
C07 / Parotid gland		2	0.15	0.10	0	0.00	0.00	2	0.15	0.10
C08 / Mouth glands		1	0.08	0.05	1	0.08	0.05	2	0.15	0.10
C10 / Oropharynx		0	0.00	0.00	4	0.30	0.21	4	0.30	0.21
C11 / Nasopharynx		5	0.38	0.26	3	0.23	0.16	8	0.61	0.42
C15 / Oesophagus		4	0.30	0.21	2	0.15	0.10	6	0.45	0.31
C16 / Stomach		28	2.12	1.46	33	2.50	1.72	61	4.62	3.19
C17 / Small intestine		1	0.08	0.05	3	0.23	0.16	4	0.30	0.21
C18 / Colon		29	2.20	1.52	31	2.35	1.62	60	4.55	3.13
C19 / Recto sigmoid Junction		6	0.45	0.31	5	0.38	0.26	11	0.83	0.57
C20 / Rectum		18	1.36	0.94	18	1.36	0.94	36	2.73	1.88
C21 / Anus & anal canal		1	0.08	0.05	0	0.00	0.00	1	0.08	0.05
C22 / Liver & bile ducts		8	0.61	0.42	15	1.14	0.78	23	1.74	1.20
C23 / Gallbladder		4	0.30	0.21	2	0.15	0.10	6	0.45	0.31
C24 / Biliary tract , other		5	0.38	0.26	3	0.23	0.16	8	0.61	0.42
C25 / Pancreas		17	1.29	0.89	20	1.52	1.04	37	2.80	1.93
C26 / Other digestive organs		0	0.00	0.00	2	0.15	0.10	2	0.15	0.10
C31 / Accessory sinus		0	0.00	0.00	1	0.08	0.05	1	0.08	0.05
C32 / Larynx		0	0.00	0.00	10	0.76	0.52	10	0.76	0.52
C34 / Bronchus & lung		27	2.05	1.41	42	3.18	2.19	69	5.23	3.60
C37 / Thymus		1	0.08	0.05	2	0.15	0.10	3	0.23	0.16
C38 / Heart, Mediastinum, pleura		1	0.08	0.05	3	0.23	0.16	4	0.30	0.21
C39 / Other respiratory & thoracic		0	0.00	0.00	3	0.23	0.16	3	0.23	0.16
C40 / Bone & cartilage, limbs		2	0.15	0.10	4	0.30	0.21	6	0.45	0.31
C41 / Bones & cartilage, other		5	0.38	0.26	10	0.76	0.52	15	1.14	0.78
C42 / Reticulo endothelial & Hemato poietic system	Chronic Myelo proliferative disorders	2	0.15	0.10	1	0.08	0.05	3	0.23	0.16
	Leukemia	26	1.97	1.36	32	2.42	1.67	58	4.39	3.03
	Myelodys plastic syndromes	0	0.00	0.00	2	0.15	0.10	2	0.15	0.10
	Plasma cell tumor	10	0.76	0.52	15	1.14	0.78	25	1.89	1.31
C44 / Skin, other		5	0.38	0.26	9	0.68	0.47	14	1.06	0.73

ICD-O code/site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C47 /Nerves system	4	0.30	0.21	3	0.23	0.16	7	0.53	0.37
C48 / Peritoneum	0	0.00	0.00	2	0.15	0.10	2	0.15	0.10
C49 / soft tissues	6	0.45	0.31	6	0.45	0.31	12	0.91	0.63
C50 / Breast	261	19.77	13.64	2	0.15	0.10	263	19.92	13.74
C53 / Cervix uteri	8	0.61	0.86	0	0.00	0.00	8	0.61	0.86
C54 / Corpus uteri	25	1.89	2.69	0	0.00	0.00	25	1.89	2.69
C55 / Uterus unspecified	11	0.83	1.18	0	0.00	0.00	11	0.83	1.18
C56 / Ovary	22	1.67	2.36	0	0.00	0.00	22	1.67	2.36
C57 / Female genital - other	1	0.08	0.11	0	0.00	0.00	1	0.08	0.11
C58 / Placenta	2	0.15	0.21	0	0.00	0.00	2	0.15	0.21
C61 / Prostate	0	0.00	0.00	60	4.55	6.10	60	4.55	6.10
C62 / Testis	0	0.00	0.00	12	0.91	1.22	12	0.91	1.22
C64 / Kidney	10	0.76	0.52	11	0.83	0.57	21	1.59	1.10
C65 / Pelvis	0	0.00	0.00	1	0.08	0.05	1	0.08	0.05
C67 / Urinary bladder	12	0.91	0.63	46	3.48	2.40	58	4.39	3.03
C68 / Urinary organs, other	1	0.08	0.05	0	0.00	0.00	1	0.08	0.05
C69 / Eye & Adnexa	1	0.08	0.05	0	0.00	0.00	1	0.08	0.05
C70 / Meninges	4	0.30	0.21	0	0.00	0.00	4	0.30	0.21
C71 / Brain	25	1.89	1.31	29	2.20	1.52	54	4.09	2.82
C72 / Nervous system, other	2	0.15	0.10	2	0.15	0.10	4	0.30	0.21
C73 / Thyroid gland	104	7.88	5.43	29	2.20	1.52	133	10.08	6.95
C75 / Endocrine gland, other	1	0.08	0.05	2	0.15	0.10	3	0.23	0.16
C76 / Unspecified site	3	0.23	0.16	2	0.15	0.10	5	0.38	0.26
C77 / Hodgkin lymphoma	16	1.21	0.84	20	1.52	1.04	36	2.73	1.88
Lymph node Non-Hodgkin lymphoma	22	1.67	1.15	35	2.65	1.83	57	4.32	2.98
C80 / Unknown primary site	9	0.68	0.47	7	0.53	0.37	16	1.21	0.84
Total	764	57.88	39.91	556	42.12	29.05	1320	100.00	68.96

Note:

* From C53 to C58 the incidence rate was calculated from the female population.

* From C61 to C62 the incidence rate was calculated from the male population.

Salah Al-Deen
Populations Number : 1723546
Cancer Cases Number : 1156
Incidence Rate: 67.07/100,000 Salah Al-Deen Populations



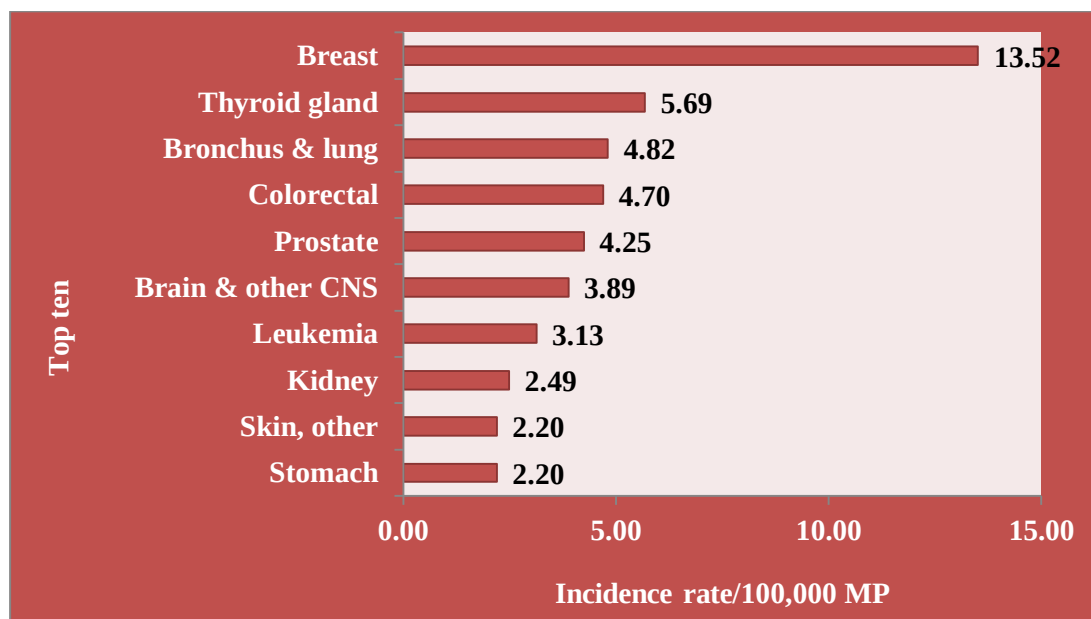
3.4.16. Salah Al-Deen governorate

Table No.; (78), Figure No.; (59) shows that the highest number, percentage and crude incidence rate/100,000 P of the top ten cancer was breast cancer and the lowest prostate cancer.

Table No.; (78) Number and percentage of the top ten cancers in Salah Al-Deen, Iraq, 2021

Top ten	No.	%
1 Breast	233	30.18
2 Thyroid gland	98	12.69
3 Bronchus & lung	83	10.75
4 Colorectal	81	10.49
5 Brain & other CNS	67	8.68
6 Leukemia	54	6.99
7 Kidney	43	5.57
8 Skin, other	38	4.92
9 Stomach	38	4.92
10 Prostate	37	4.79
Total top ten	772	100.00%

Figure No.; (59) Crude incidence rate of the top ten cancers in Salah Al-Deen /100,000 Salah Al-Deen populations, Iraq, 2021



The prostate incidence rate is calculated from the male populations.

Table No.; (79), Figure No.; (60) shows that the highest number, percentage and crude incidence rate/100,000 MP of the top ten cancer in male was bronchus & lung cancer and the lowest stomach cancer.

**Table No.; (79) Number and percentage of the top ten cancers in males,
Salah Al-Deen, Iraq, 2021**

Top ten	No.	%
1 Bronchus & lung	61	19.30
2 Colorectal	42	13.29
3 Prostate	37	11.71
4 Kidney	32	10.13
5 Leukemia	32	10.13
6 Brain & other CNS	30	9.49
7 Urinary bladder	26	8.23
8 Non-Hodgkin lymphoma	19	6.01
9 Thyroid gland	19	6.01
10 Stomach	18	5.70
Total top ten	316	100.00%

**Figure No.; (60) Crude incidence rate of the top ten cancers in males / 100,000
male populations, Salah Al-Deen, Iraq, 2021**

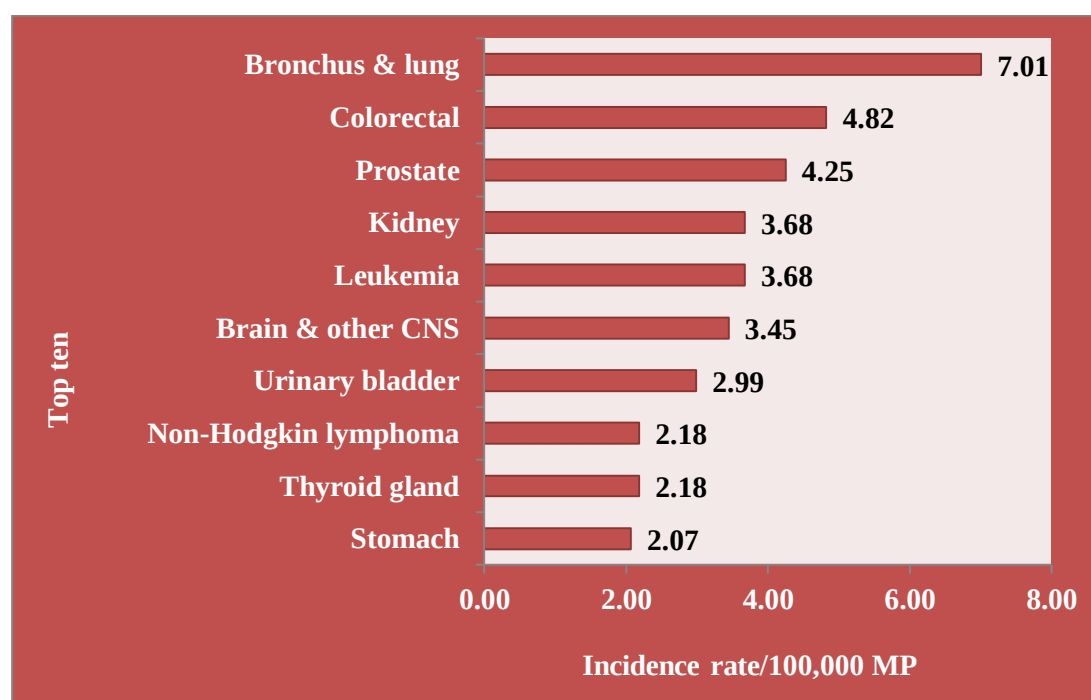


Table No.; (80), Figure No.; (61) shows that the highest percentage and crude incidence rate/100,000 FP of the top ten cancer in female was breast cancer and the lowest stomach cancer.

Table No.; (80) Number and percentage of the top ten cancers in females, Salah Al-Deen, Iraq, 2021

Top ten	No.	%
1 Breast	227	43.57
2 Thyroid gland	79	15.16
3 Colorectal	39	7.49
4 Brain & other CNS	37	7.10
5 Uterus unspecified	28	5.37
6 Ovary	26	4.99
7 Bronchus & lung	22	4.22
8 Leukemia	22	4.22
9 Skin, other	21	4.03
10 Stomach	20	3.84
Total top ten	521	100.00%

Figure No.; (61) Crude incidence rate of the top ten cancers in females / 100,000 female populations, Salah Al-Deen, Iraq, 2021

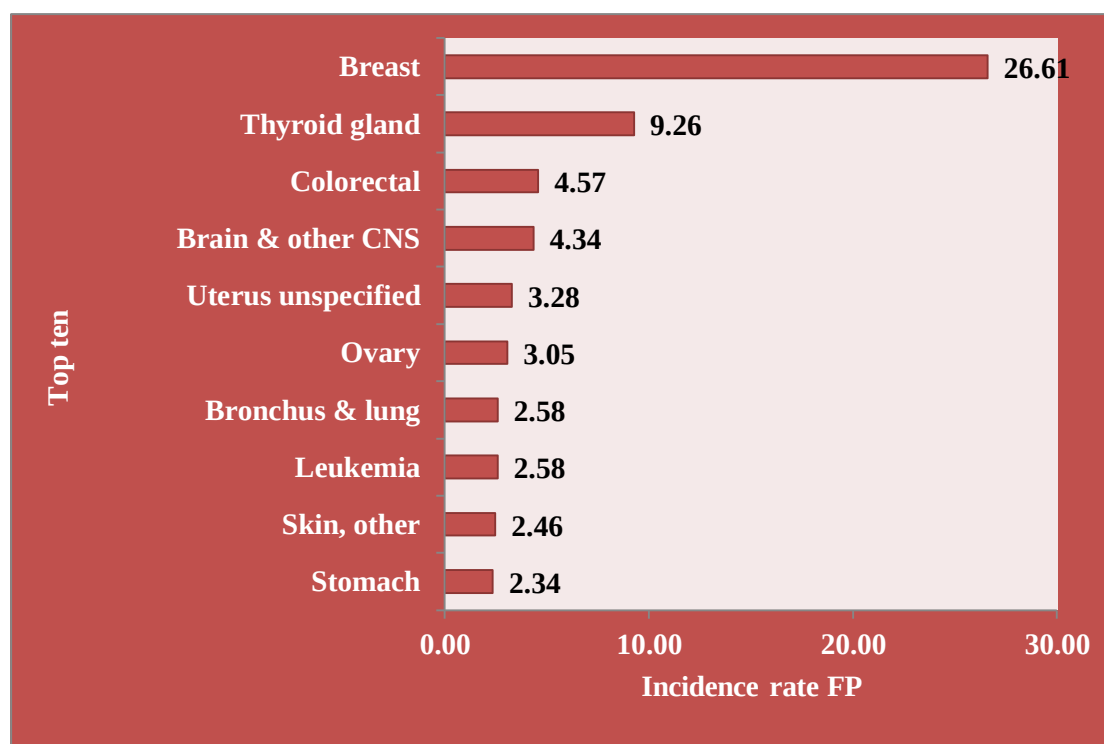


Table No.; (81) Number, percentage and the crude incidence rate/100,000 Salah Al-Deen population of cancer by ICD-O code, site of tumor and gender, in Salah Al-Deen, Iraq, 2021

ICD-O code/site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C02 / Tongue, other	1	0.09	0.06	5	0.43	0.29	6	0.52	0.35
C04 / Mouth - floor	1	0.09	0.06	0	0.00	0.00	1	0.09	0.06
C05 / Mouth - palate	2	0.17	0.12	0	0.00	0.00	2	0.17	0.12
C06 / Mouth - other	3	0.26	0.17	2	0.17	0.12	5	0.43	0.29
C07 / Parotid gland	3	0.26	0.17	2	0.17	0.12	5	0.43	0.29
C08 / Mouth glands	2	0.17	0.12	1	0.09	0.06	3	0.26	0.17
C09 / Tonsil	1	0.09	0.06	0	0.00	0.00	1	0.09	0.06
C10 / Oropharynx	3	0.26	0.17	0	0.00	0.00	3	0.26	0.17
C11 / Nasopharynx	3	0.26	0.17	7	0.61	0.41	10	0.87	0.58
C15 / Oesophagus	4	0.35	0.23	3	0.26	0.17	7	0.61	0.41
C16 / Stomach	20	1.73	1.16	18	1.56	1.04	38	3.29	2.20
C17 / Small intestine	4	0.35	0.23	3	0.26	0.17	7	0.61	0.41
C18 / Colon	26	2.25	1.51	32	2.77	1.86	58	5.02	3.37
C19 / Recto sigmoid Junction	4	0.35	0.23	2	0.17	0.12	6	0.52	0.35
C20 / Rectum	9	0.78	0.52	8	0.69	0.46	17	1.47	0.99
C21 / Anus & anal canal	1	0.09	0.06	1	0.09	0.06	2	0.17	0.12
C22 / Liver & bile ducts	11	0.95	0.64	5	0.43	0.29	16	1.38	0.93
C23 / Gallbladder	2	0.17	0.12	5	0.43	0.29	7	0.61	0.41
C24 / Biliary tract , other	1	0.09	0.06	7	0.61	0.41	8	0.69	0.46
C25 / Pancreas	13	1.12	0.75	17	1.47	0.99	30	2.60	1.74
C26 / Other digestive organs	1	0.09	0.06	0	0.00	0.00	1	0.09	0.06
C31 / Accessory sinus	0	0.00	0.00	2	0.17	0.12	2	0.17	0.12
C32 / Larynx	7	0.61	0.41	14	1.21	0.81	21	1.82	1.22
C33 / Trachea	2	0.17	0.12	4	0.35	0.23	6	0.52	0.35
C34 / Bronchus & lung	22	1.90	1.28	61	5.28	3.54	83	7.18	4.82
C40 / Bone & cartilage, limbs	7	0.61	0.41	6	0.52	0.35	13	1.12	0.75
C41 / Bones & cartilage, other	5	0.43	0.29	5	0.43	0.29	10	0.87	0.58
C42 / Chronic Myelo proliferative disorders	2	0.17	0.12	1	0.09	0.06	3	0.26	0.17
poietic System Leukemia	22	1.90	1.28	32	2.77	1.86	54	4.67	3.13
Plasma cell tumor	1	0.09	0.06	4	0.35	0.23	5	0.43	0.29
C44 / Skin, other	21	1.82	1.22	17	1.47	0.99	38	3.29	2.20
C47 /Nerves system	1	0.09	0.06	1	0.09	0.06	2	0.17	0.12
C49 / Soft tissues	8	0.69	0.46	14	1.21	0.81	22	1.90	1.28

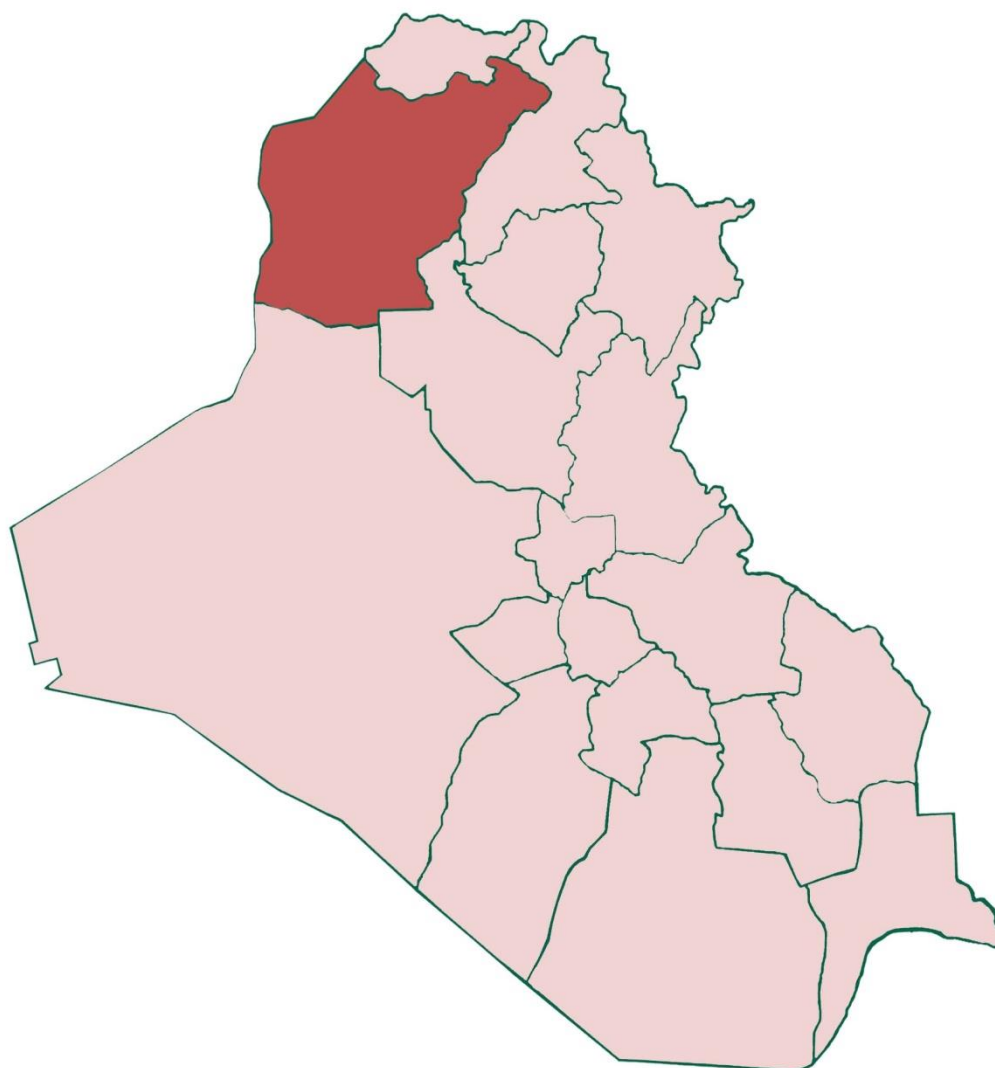
ICD-O code/site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C50 / Breast	227	19.64	13.17	6	0.52	0.35	233	20.16	13.52
C51 / Vulva	2	0.17	0.23	0	0.00	0.00	2	0.17	0.23
C52 / Vagina	2	0.17	0.23	0	0.00	0.00	2	0.17	0.23
C53 / Cervix uteri	5	0.43	0.59	0	0.00	0.00	5	0.43	0.59
C54 / Corpus uteri	7	0.61	0.82	0	0.00	0.00	7	0.61	0.82
C55 / Uterus unspecified	28	2.42	3.28	0	0.00	0.00	28	2.42	3.28
C56 / Ovary	26	2.25	3.05	0	0.00	0.00	26	2.25	3.05
C58 / Placenta	1	0.09	0.12	0	0.00	0.00	1	0.09	0.12
C61 / Prostate	0	0.00	0.00	37	3.20	4.25	37	3.20	4.25
C62 / Testis	0	0.00	0.00	5	0.43	0.57	5	0.43	0.57
C64 / Kidney	11	0.95	0.64	32	2.77	1.86	43	3.72	2.49
C65 / Pelvis	1	0.09	0.06	0	0.00	0.00	1	0.09	0.06
C66 / Ureter	2	0.17	0.12	0	0.00	0.00	2	0.17	0.12
C67 / Urinary bladder	11	0.95	0.64	26	2.25	1.51	37	3.20	2.15
C68 / Urinary organs, other	0	0.00	0.00	1	0.09	0.06	1	0.09	0.06
C69 / Eye & Adnexa	3	0.26	0.17	1	0.09	0.06	4	0.35	0.23
C70 / Meninges	4	0.35	0.23	1	0.09	0.06	5	0.43	0.29
C71 / Brain	32	2.77	1.86	27	2.34	1.57	59	5.10	3.42
C72 / Nervous system, other	1	0.09	0.06	1	0.09	0.06	2	0.17	0.12
C73 / Thyroid gland	79	6.83	4.58	19	1.64	1.10	98	8.48	5.69
C74 / Adrenal gland	1	0.09	0.06	1	0.09	0.06	2	0.17	0.12
C75 / Endocrine gland, other	0	0.00	0.00	1	0.09	0.06	1	0.09	0.06
C76 / Unspecified site	1	0.09	0.06	0	0.00	0.00	1	0.09	0.06
C77 / Hodgkin lymphoma	8	0.69	0.46	7	0.61	0.41	15	1.30	0.87
Lymph node Non-Hodgkin lymphoma	15	1.30	0.87	19	1.64	1.10	34	2.94	1.97
C80 / Unknown primary site	7	0.61	0.41	6	0.52	0.35	13	1.12	0.75
Total	687	59.43	39.86	469	40.57	27.21	1156	100.00	67.07

Note:

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

* From C61 to C62 the incidence rate was calculated from the male population.

Nineveh
Populations Number : 4030006
Cancer Cases Number : 2536
Incidence Rate: 62.93/100,000 Nineveh Populations



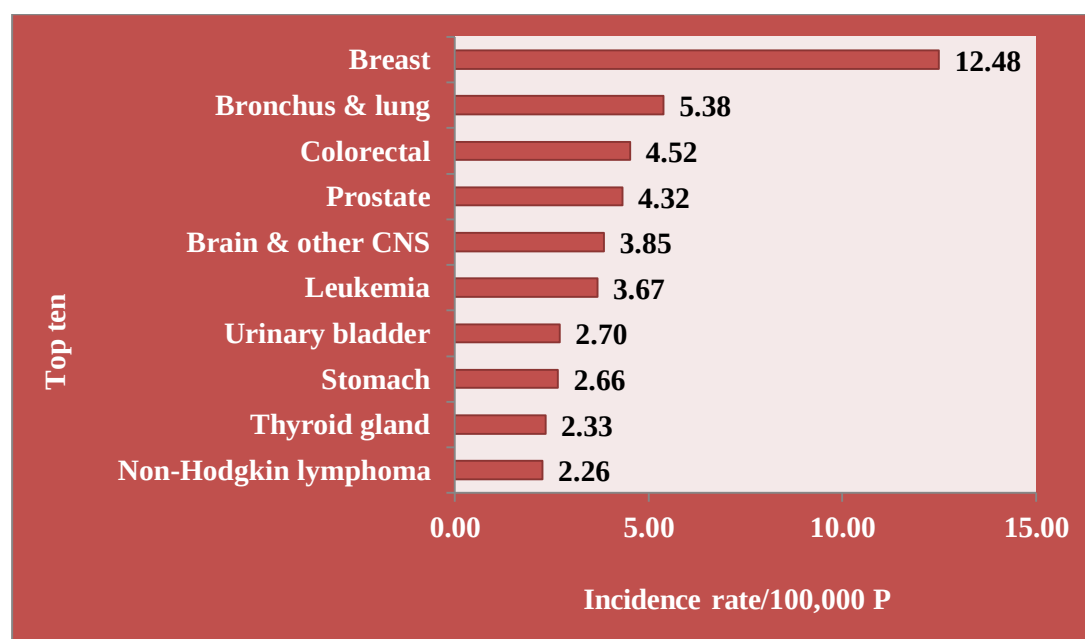
3.4.17. Nineveh governorate

Table No.; (82), Figure No.; (62) shows that the highest number, percentage and crude incidence rate/100,000 P of the top ten cancer was breast cancer and the lowest prostate cancer.

Table No.; (82) Number and percentage of the top ten cancers in Nineveh, Iraq, 2021

Top ten	No.	%
1 Breast	503	29.68
2 Bronchus & lung	217	12.80
3 Colorectal	182	10.74
4 Brain & other CNS	155	9.14
5 Leukemia	148	8.73
6 Urinary bladder	109	6.43
7 Stomach	107	6.31
8 Thyroid gland	94	5.55
9 Non-Hodgkin lymphoma	91	5.37
10 Prostate	89	5.25
Total top ten	1695	100.00%

Figure No.; (62) Crude incidence rate of the top ten cancers in Nineveh /100,000 Nineveh populations, Iraq, 2021



The prostate incidence rate is calculated from the male populations.

Table No.; (83), Figure No.; (63) shows that the highest percentage and crude incidence rate/100,000 MP of the top ten cancer in male was bronchus & lung cancer and the lowest kidney cancer.

Table No.; (83) Number and percentage of the top ten cancers in males, Nineveh, Iraq, 2021

Top ten	No.	%
1 Bronchus & lung	171	21.40
2 Colorectal	96	12.02
3 Urinary bladder	91	11.39
4 Prostate	89	11.14
5 Leukemia	83	10.39
6 Brain & other CNS	74	9.26
7 Stomach	56	7.01
8 Non-Hodgkin lymphoma	47	5.88
9 Pancreas	47	5.88
10 Kidney	45	5.63
Total top ten	799	100.00%

Figure No.; (63) Crude incidence rate of the top ten cancers in males / 100,000 male populations, Nineveh, Iraq, 2021

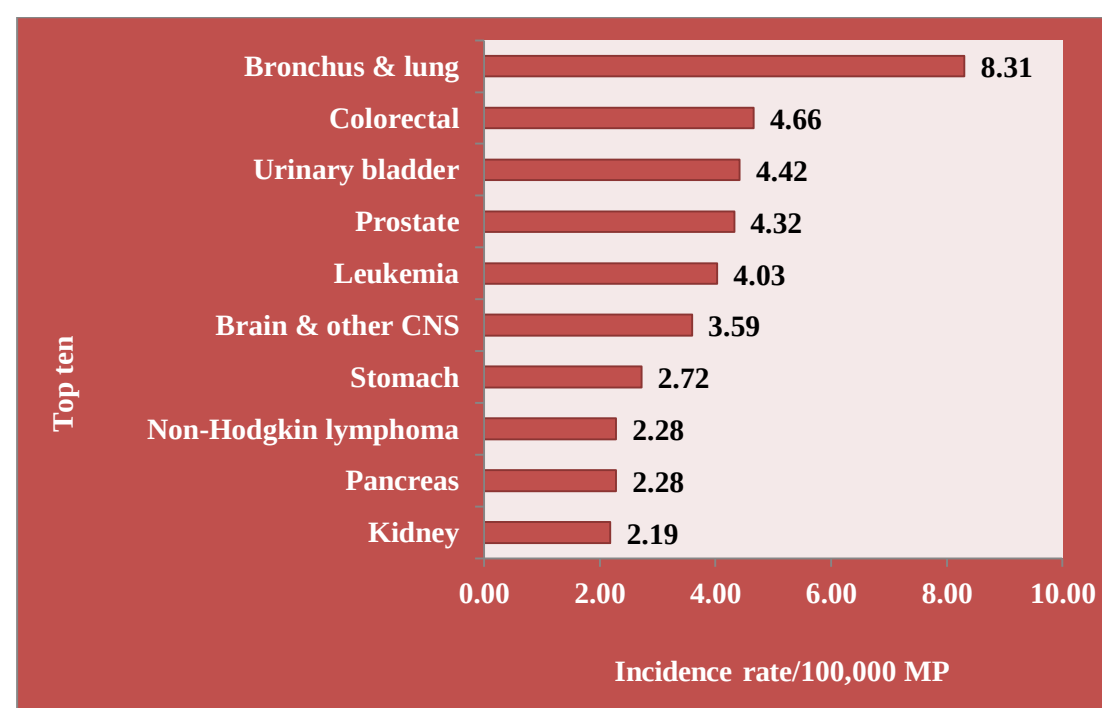


Table No.; (84), Figure No.; (64) shows that the highest percentage and crude incidence rate/100,000 FP of the top ten cancer in female was breast cancer and the lowest bronchus & lung cancer.

Table No.; (84) Number and percentage of the top ten cancers in females, Nineveh, Iraq, 2021

Top ten	No.	%
1 Breast	496	45.59
2 Colorectal	86	7.90
3 Brain & other CNS	81	7.44
4 Thyroid gland	77	7.08
5 Uterus unspecified	77	7.08
6 Leukemia	65	5.97
7 Ovary	62	5.70
8 Stomach	51	4.69
9 Unknown primary site	47	4.32
10 Bronchus & lung	46	4.23
Total top ten	1088	100.00%

Figure No.; (64) Crude incidence rate of the top ten cancers in females / 100,000 female populations, Nineveh, Iraq, 2021

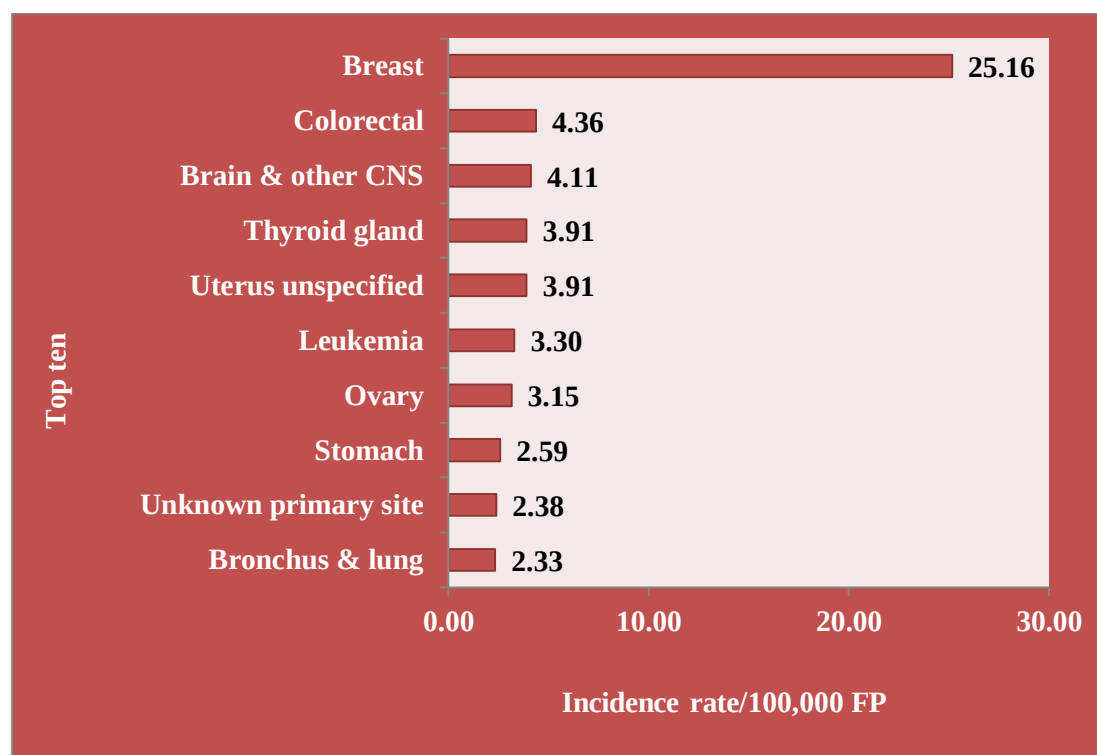


Table No.; (85) Number, percentage and the crude incidence rate/100,000 Nineveh population of cancer by ICD-O code, site of tumor and gender, in Nineveh, Iraq, 2021

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip		1	0.04	0.02	1	0.04	0.02	2	0.08	0.05
C02 / Tongue, other		2	0.08	0.05	2	0.08	0.05	4	0.16	0.10
C05 / Mouth - palate		0	0.00	0.00	1	0.04	0.02	1	0.04	0.02
C07 / Parotid gland		2	0.08	0.05	4	0.16	0.10	6	0.24	0.15
C08 / Mouth glands		1	0.04	0.02	6	0.24	0.15	7	0.28	0.17
C11 / Nasopharynx		6	0.24	0.15	14	0.55	0.35	20	0.79	0.50
C13 / Hypopharynx		1	0.04	0.02	0	0.00	0.00	1	0.04	0.02
C14 / Pharynx		0	0.00	0.00	1	0.04	0.02	1	0.04	0.02
C15 / Oesophagus		7	0.28	0.17	9	0.35	0.22	16	0.63	0.40
C16 / Stomach		51	2.01	1.27	56	2.21	1.39	107	4.22	2.66
C17 / Small intestine		10	0.39	0.25	12	0.47	0.30	22	0.87	0.55
C18 / Colon		57	2.25	1.41	75	2.96	1.86	132	5.21	3.28
C20 / Rectum		29	1.14	0.72	21	0.83	0.52	50	1.97	1.24
C21 / Anus & anal canal		1	0.04	0.02	2	0.08	0.05	3	0.12	0.07
C22 / Liver & bile ducts		21	0.83	0.52	29	1.14	0.72	50	1.97	1.24
C23 / Gallbladder		4	0.16	0.10	5	0.20	0.12	9	0.35	0.22
C24 / Biliary tract , other		3	0.12	0.07	5	0.20	0.12	8	0.32	0.20
C25 / Pancreas		39	1.54	0.97	47	1.85	1.17	86	3.39	2.13
C26 / Other digestive organs		1	0.04	0.02	1	0.04	0.02	2	0.08	0.05
C30 / Nasal cavity		1	0.04	0.02	0	0.00	0.00	1	0.04	0.02
C32 / Larynx		6	0.24	0.15	23	0.91	0.57	29	1.14	0.72
C34 / Bronchus & lung		46	1.81	1.14	171	6.74	4.24	217	8.56	5.38
C37 / Thymus		1	0.04	0.02	0	0.00	0.00	1	0.04	0.02
C38 / Heart, Mediastinum, pleura		2	0.08	0.05	2	0.08	0.05	4	0.16	0.10
C40 / Bone & cartilage, limbs		5	0.20	0.12	6	0.24	0.15	11	0.43	0.27
C41 / Bones & cartilage, other		17	0.67	0.42	9	0.35	0.22	26	1.03	0.65
C42 / Reticulo endothelial & Hemato poietic System	Chronic Myelo proliferative disorders	0	0.00	0.00	2	0.08	0.05	2	0.08	0.05
	Leukemia	65	2.56	1.61	83	3.27	2.06	148	5.84	3.67
	Plasma cell tumor	10	0.39	0.25	12	0.47	0.30	22	0.87	0.55
C44 / Skin, other		21	0.83	0.52	23	0.91	0.57	44	1.74	1.09
C47 /Nerves system		1	0.04	0.02	1	0.04	0.02	2	0.08	0.05
C48 / Peritoneum		1	0.04	0.02	0	0.00	0.00	1	0.04	0.02
C49 / Soft tissues		14	0.55	0.35	15	0.59	0.37	29	1.14	0.72
C50 / Breast		496	19.56	12.31	7	0.28	0.17	503	19.83	12.48
C51 / Vulva		4	0.16	0.20	0	0.00	0.00	4	0.16	0.20
C52 / Vagina		1	0.04	0.05	0	0.00	0.00	1	0.04	0.05

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C53 / Cervix uteri		8	0.32	0.41	0	0.00	0.00	8	0.32	0.41
C54 / Corpus uteri		10	0.39	0.51	0	0.00	0.00	10	0.39	0.51
C55 / Uterus unspecified		77	3.04	3.91	0	0.00	0.00	77	3.04	3.91
C56 / Ovary		62	2.44	3.15	0	0.00	0.00	62	2.44	3.15
C58 / Placenta		4	0.16	0.20	0	0.00	0.00	4	0.16	0.20
C61 / Prostate		0	0.00	0.00	89	3.51	4.32	89	3.51	4.32
C62 / Testis		0	0.00	0.00	20	0.79	0.97	20	0.79	0.97
C64 / Kidney		26	1.03	0.65	45	1.77	1.12	71	2.80	1.76
C65 / Pelvis		1	0.04	0.02	0	0.00	0.00	1	0.04	0.02
C66 / Ureter		2	0.08	0.05	0	0.00	0.00	2	0.08	0.05
C67 / Urinary bladder		18	0.71	0.45	91	3.59	2.26	109	4.30	2.70
C68 / Urinary organs, other		1	0.04	0.02	3	0.12	0.07	4	0.16	0.10
C69 / Eye & Adnexa		3	0.12	0.07	3	0.12	0.07	6	0.24	0.15
C70 / Meninges		5	0.20	0.12	1	0.04	0.02	6	0.24	0.15
C71 / Brain		75	2.96	1.86	68	2.68	1.69	143	5.64	3.55
C72 / Nervous system, other		0	0.00	0.00	3	0.12	0.07	3	0.12	0.07
C73 / Thyroid gland		77	3.04	1.91	17	0.67	0.42	94	3.71	2.33
C74 / Adrenal gland		4	0.16	0.10	12	0.47	0.30	16	0.63	0.40
C75 / Endocrine gland, other		1	0.04	0.02	2	0.08	0.05	3	0.12	0.07
C76 / Unspecified site		1	0.04	0.02	0	0.00	0.00	1	0.04	0.02
C77 / Lymph node	Hodgkin lymphoma	32	1.26	0.79	38	1.50	0.94	70	2.76	1.74
	Non-Hodgkin lymphoma	44	1.74	1.09	47	1.85	1.17	91	3.59	2.26
C80 / Unknown primary site		47	1.85	1.17	27	1.06	0.67	74	2.92	1.84
Total		1425	56.19	35.36	1111	43.81	27.57	2536	100.00	62.93

Note:

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

* From C61 to C62 the incidence rate was calculated from the male population.

Kirkuk
Populations Number : 1726409
Cancer Cases Number : 1059
Incidence Rate: 61.34/100,000 Kirkuk Populations



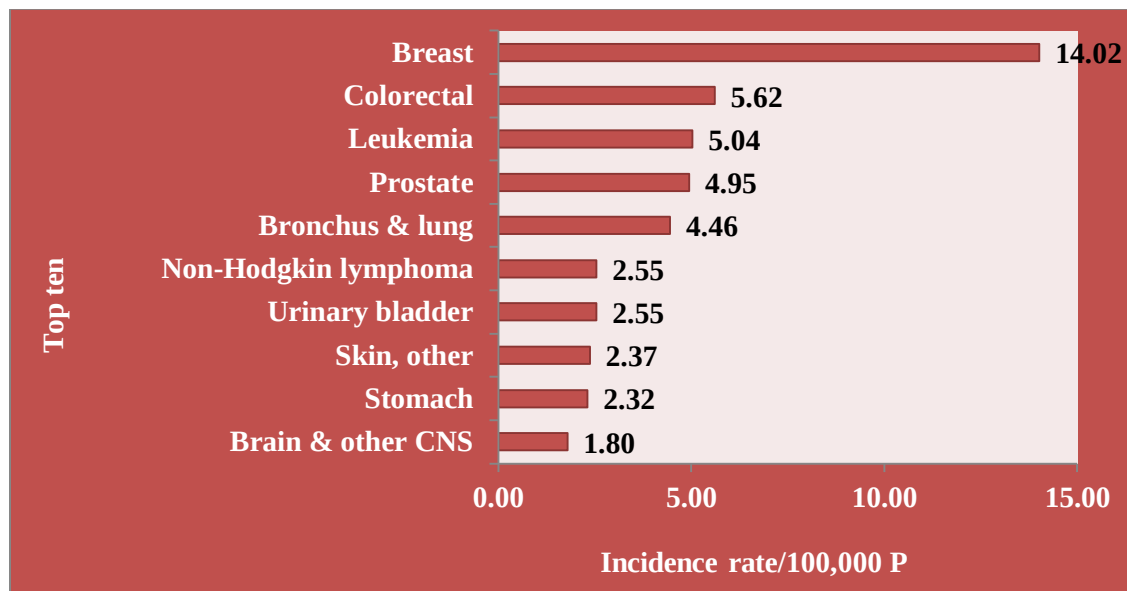
3.4.18. Kirkuk governorate

Table No.; (86), Figure No.; (65) shows that the highest number, percentage and crude incidence rate/100,000 P of the top ten cancer was breast cancer and the lowest brain & other CNS tumor.

Table No.; (86) Number and percentage of the top ten cancers in Kirkuk, Iraq, 2021

Top ten	No.	%
1 Breast	242	32.44
2 Colorectal	97	13.00
3 Leukemia	87	11.66
4 Bronchus & lung	77	10.32
5 Non-Hodgkin lymphoma	44	5.90
6 Urinary bladder	44	5.90
7 Prostate	43	5.76
8 Skin, other	41	5.50
9 Stomach	40	5.36
10 Brain & other CNS	31	4.16
Total top ten	746	100.00%

**Figure No.; (65) Crude incidence rate of the top ten cancers in Kirkuk /100,000
Kirkuk populations, Iraq, 2021**



The prostate incidence rate is calculated from the male populations.

Table No.; (87), Figure No.; (66) shows that the highest number, percentage and crude incidence rate/100,000 MP of the top ten cancer in male was bronchus & lung cancer and the lowest pancreas cancer.

Table No.; (87) Number and percentage of the top ten cancers in males, Kirkuk, Iraq, 2021

Top ten	No.	%
1 Bronchus & lung	55	17.19
2 Prostate	43	13.44
3 Colorectal	42	13.13
4 Leukemia	37	11.56
5 Urinary bladder	37	11.56
6 Non-Hodgkin lymphoma	27	8.44
7 Skin, other	22	6.88
8 Brain & other CNS	20	6.25
9 Stomach	19	5.94
10 Pancreas	18	5.63
Total top ten	320	100.00%

Figure No.; (66) Crude incidence rate of the top ten cancers in males / 100,000 male populations, Kirkuk, Iraq, 2021

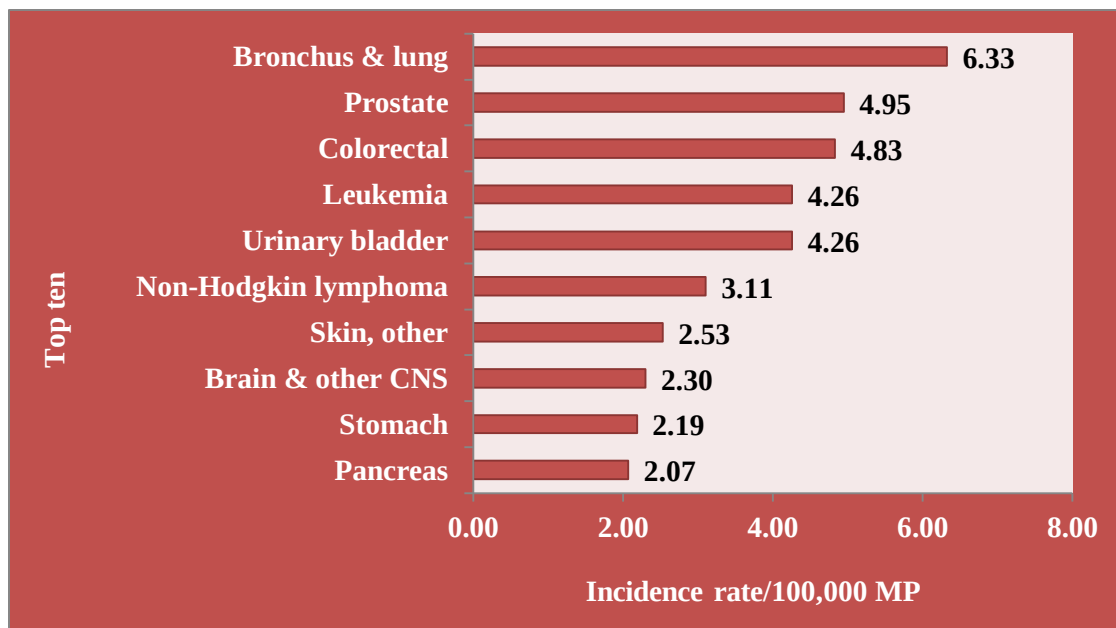


Table No.; (88), Figure No.; (67) shows that the highest percentage and crude incidence rate/100,000 FP of the top ten cancer in female was breast cancer and the lowest thyroid gland cancer.

**Table No.; (88) Number and percentage of the top ten cancers in females,
Kirkuk, Iraq, 2021**

Top ten	No.	%
1 Breast	233	49.16
2 Colorectal	55	11.60
3 Leukemia	50	10.55
4 Ovary	23	4.85
5 Bronchus & lung	22	4.64
6 Stomach	21	4.43
7 Skin, other	19	4.01
8 Uterus unspecified	18	3.80
9 Non-Hodgkin lymphoma	17	3.59
10 Thyroid gland	16	3.38
Total top ten	474	100.00%

**Figure No.; (67) Crude incidence rate of the top ten cancers in Females / 100,000
Female populations, Kirkuk, Iraq, 2021**

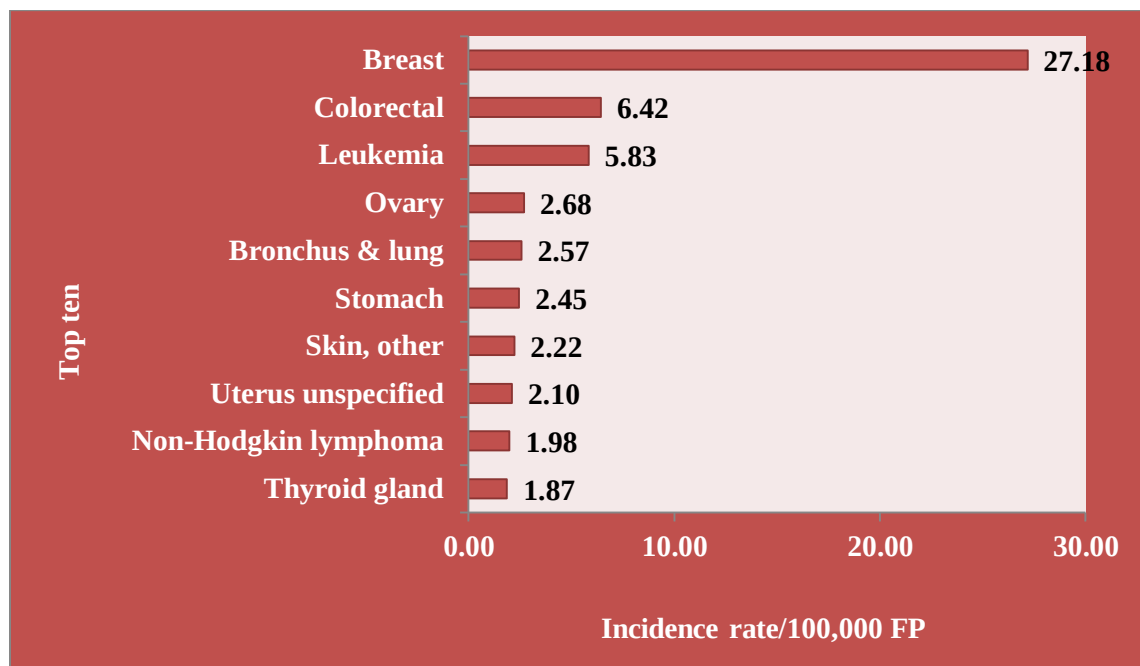


Table No.; (89) Number, percentage and the crude incidence rate/100,000 Kirkuk population of cancer by ICD-O code, site of tumor and gender, in Kirkuk, Iraq, 2021

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C02 / Tongue, other		3	0.28	0.17	1	0.09	0.06	4	0.38	0.23
C04 / Mouth - floor		0	0.00	0.00	1	0.09	0.06	1	0.09	0.06
C05 / Mouth - palate		1	0.09	0.06	0	0.00	0.00	1	0.09	0.06
C06 / Mouth - other		2	0.19	0.12	2	0.19	0.12	4	0.38	0.23
C08 / Mouth glands		1	0.09	0.06	0	0.00	0.00	1	0.09	0.06
C09 / Tonsil		0	0.00	0.00	1	0.09	0.06	1	0.09	0.06
C11 / Nasopharynx		3	0.28	0.17	2	0.19	0.12	5	0.47	0.29
C13 / Hypopharynx		1	0.09	0.06	0	0.00	0.00	1	0.09	0.06
C14 / Pharynx		2	0.19	0.12	0	0.00	0.00	2	0.19	0.12
C15 / Oesophagus		4	0.38	0.23	4	0.38	0.23	8	0.76	0.46
C16 / Stomach		21	1.98	1.22	19	1.79	1.10	40	3.78	2.32
C17 / Small intestine		6	0.57	0.35	1	0.09	0.06	7	0.66	0.41
C18 / Colon		31	2.93	1.80	27	2.55	1.56	58	5.48	3.36
C19 / Recto sigmoid Junction		1	0.09	0.06	0	0.00	0.00	1	0.09	0.06
C20 / Rectum		23	2.17	1.33	15	1.42	0.87	38	3.59	2.20
C21 / Anus & anal canal		2	0.19	0.12	0	0.00	0.00	2	0.19	0.12
C22 / Liver & bile ducts		9	0.85	0.52	10	0.94	0.58	19	1.79	1.10
C23 / Gallbladder		8	0.76	0.46	5	0.47	0.29	13	1.23	0.75
C24 / Biliary tract , other		0	0.00	0.00	4	0.38	0.23	4	0.38	0.23
C25 / Pancreas		8	0.76	0.46	18	1.70	1.04	26	2.46	1.51
C30 / Nasal cavity		0	0.00	0.00	1	0.09	0.06	1	0.09	0.06
C32 / Larynx		6	0.57	0.35	7	0.66	0.41	13	1.23	0.75
C34 / Bronchus & lung		22	2.08	1.27	55	5.19	3.19	77	7.27	4.46
C38 / Heart, Mediastinum, pleura		1	0.09	0.06	1	0.09	0.06	2	0.19	0.12
C40 / Bone & cartilage, limbs		4	0.38	0.23	4	0.38	0.23	8	0.76	0.46
C41 / Bones & cartilage, other		3	0.28	0.17	5	0.47	0.29	8	0.76	0.46
C42 / Reticulo endothelial & Hemato poietic system	Chronic Myelo proliferative disorders	4	0.38	0.23	2	0.19	0.12	6	0.57	0.35
	Leukemia	50	4.72	2.90	37	3.49	2.14	87	8.22	5.04
	Myelodys plastic syndromes	1	0.09	0.06	1	0.09	0.06	2	0.19	0.12
	Plasma cell tumor	1	0.09	0.06	4	0.38	0.23	5	0.47	0.29
C44 / Skin, other		19	1.79	1.10	22	2.08	1.27	41	3.87	2.37

ICD-O code/site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C47 /Nerves system	1	0.09	0.06	0	0.00	0.00	1	0.09	0.06
C48 / Peritoneum	2	0.19	0.12	1	0.09	0.06	3	0.28	0.17
C49 / Soft tissues	10	0.94	0.58	9	0.85	0.52	19	1.79	1.10
C50 / Breast	233	22.00	13.50	9	0.85	0.52	242	22.85	14.02
C51 / Vulva	1	0.09	0.12	0	0.00	0.00	1	0.09	0.12
C52 / Vagina	2	0.19	0.23	0	0.00	0.00	2	0.19	0.23
C53 / Cervix uteri	3	0.28	0.35	0	0.00	0.00	3	0.28	0.35
C54 / Corpus uteri	4	0.38	0.47	0	0.00	0.00	4	0.38	0.47
C55 / Uterus unspecified	18	1.70	2.10	0	0.00	0.00	18	1.70	2.10
C56 / Ovary	23	2.17	2.68	0	0.00	0.00	23	2.17	2.68
C57 / Female genital - other	1	0.09	0.12	0	0.00	0.00	1	0.09	0.12
C60 / Penis	0	0.00	0.00	1	0.09	0.12	1	0.09	0.12
C61 / Prostate	0	0.00	0.00	43	4.06	4.95	43	4.06	4.95
C62 / Testis	0	0.00	0.00	6	0.57	0.35	6	0.57	0.35
C64 / Kidney	13	1.23	0.75	16	1.51	0.93	29	2.74	1.68
C65 / Pelvis	1	0.09	0.06	1	0.09	0.06	2	0.19	0.12
C66 / Ureter	0	0.00	0.00	1	0.09	0.06	1	0.09	0.06
C67 / Urinary bladder	7	0.66	0.41	37	3.49	2.14	44	4.15	2.55
C69 / Eye & Adnexa	1	0.09	0.06	3	0.28	0.17	4	0.38	0.23
C70 / Meninges	1	0.09	0.06	0	0.00	0.00	1	0.09	0.06
C71 / Brain	9	0.85	0.52	17	1.61	0.98	26	2.46	1.51
C72 / Nervous system, other	0	0.00	0.00	1	0.09	0.06	1	0.09	0.06
C73 / Thyroid gland	16	1.51	0.93	5	0.47	0.29	21	1.98	1.22
C74 / Adrenal gland	0	0.00	0.00	2	0.19	0.12	2	0.19	0.12
C75 / Endocrine gland, other	1	0.09	0.06	2	0.19	0.12	3	0.28	0.17
C77 / Hodgkin lymphoma	8	0.76	0.46	5	0.47	0.29	13	1.23	0.75
Lymph node Non-Hodgkin lymphoma	17	1.61	0.98	27	2.55	1.56	44	4.15	2.55
C80 / Unknown primary site	5	0.47	0.29	10	0.94	0.58	15	1.42	0.87
Total	614	57.98	35.57	445	42.02	25.78	1059	100.00	61.34

Note:

* From C51 to C57 the incidence rate was calculated from the female population.

* From C60 to C62 the incidence rate was calculated from the male population.

Results

Morphology of Top Ten Cancers in Iraq 2021

3.5. Morphology of the top ten cancers in Iraq in 2021:

3.5.1 Morphology of the top ten cancers in the males, Iraq, 2021

Figure No.; (68), shows that the highest percentage of the morphology of bronchus & lung cancer was squamous cell carcinoma and the lowest adenosquamous carcinoma.

Figure No.; (68) Bronchus & lung cancer in the males by the type of morphology, Iraq, 2021

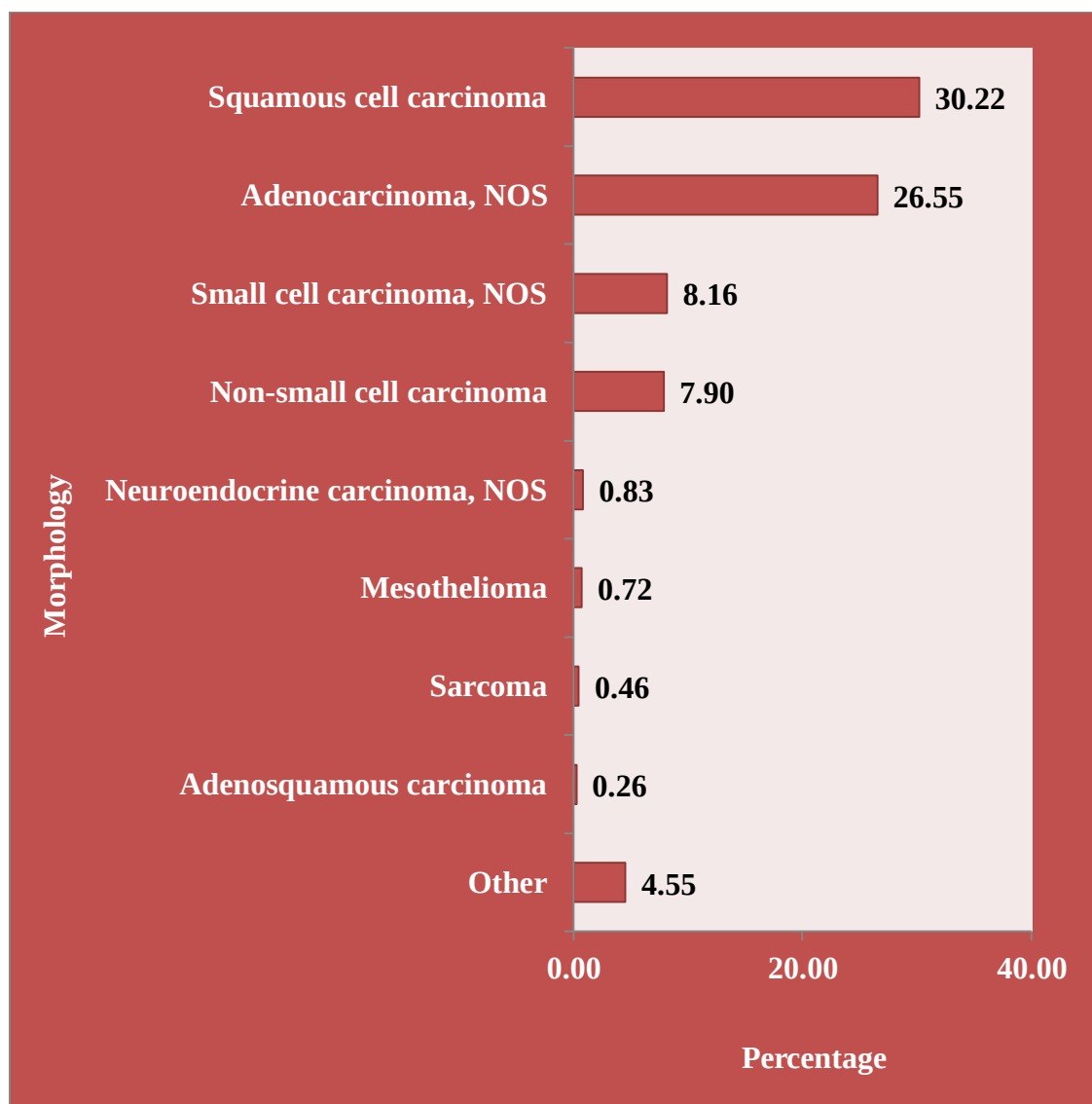


Figure No.; (69), shows that the highest percentage of the morphology of urinary bladder cancer was papillary adenocarcinoma and the lowest sarcoma.

Figure No.; (69) Urinary bladder cancer in the males by the type of morphology, Iraq, 2021

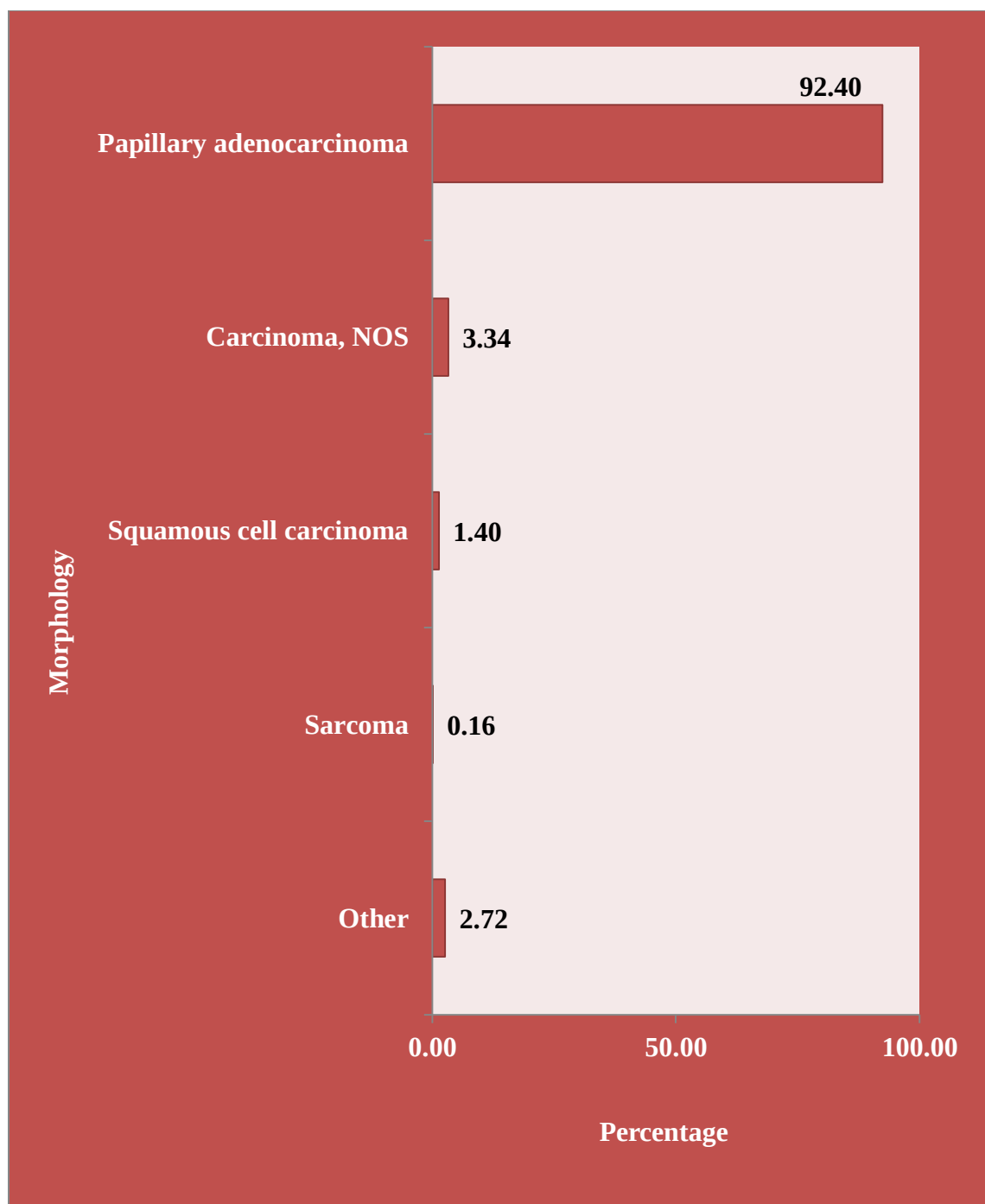


Figure No.; (70), shows that the highest percentage of the morphology of colorectal cancer was adenocarcinoma and the lowest gastrointestinal stromal sarcoma.

Figure No.; (70) Colorectal cancer in the males by the type of morphology, Iraq, 2021

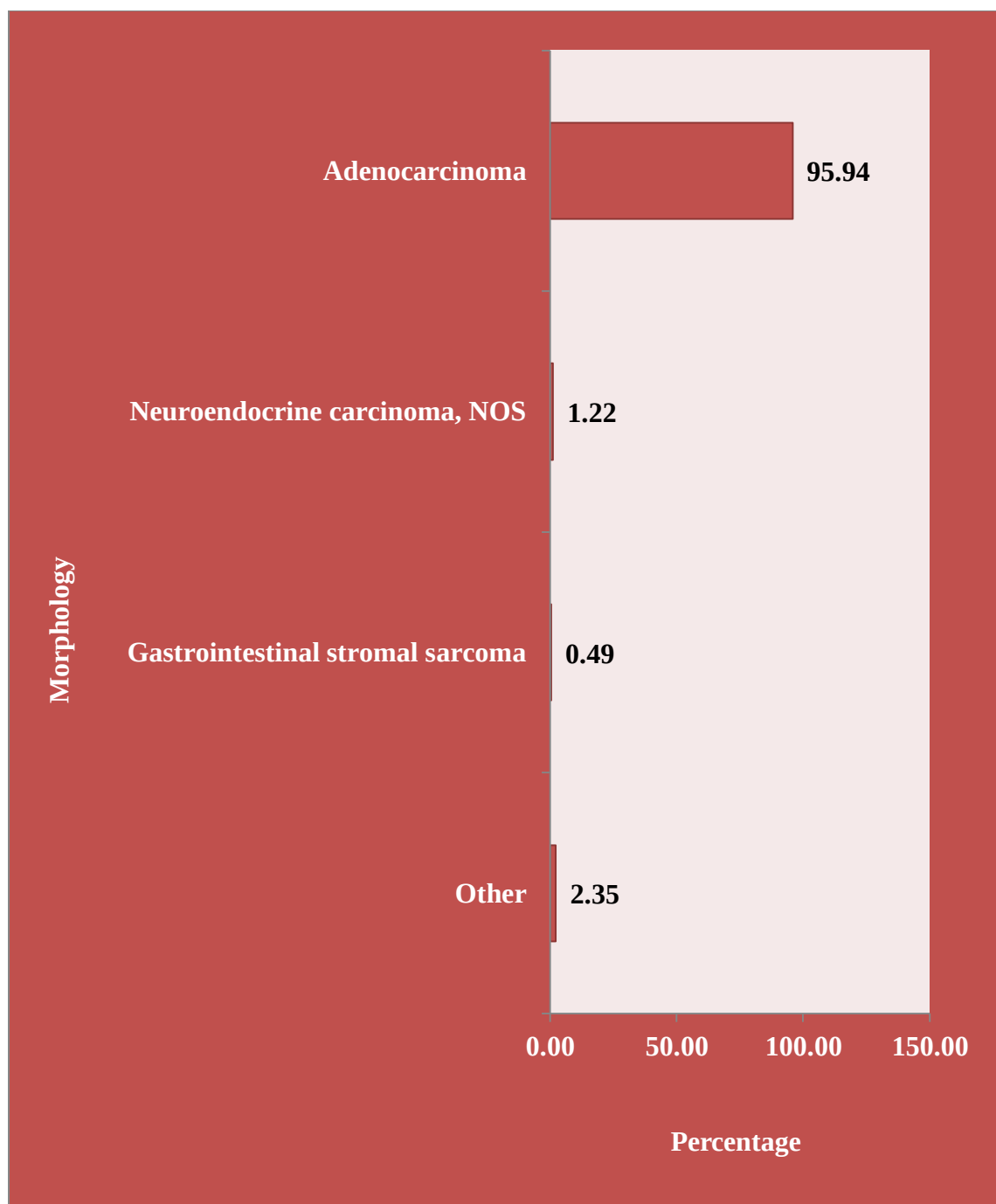


Figure No.; (71), shows that the highest percentage of the morphology of prostate cancer was adenocarcinoma and the lowest sarcoma.

**Figure No.; (71) Prostate cancer in the males by the type of morphology,
Iraq, 2021**

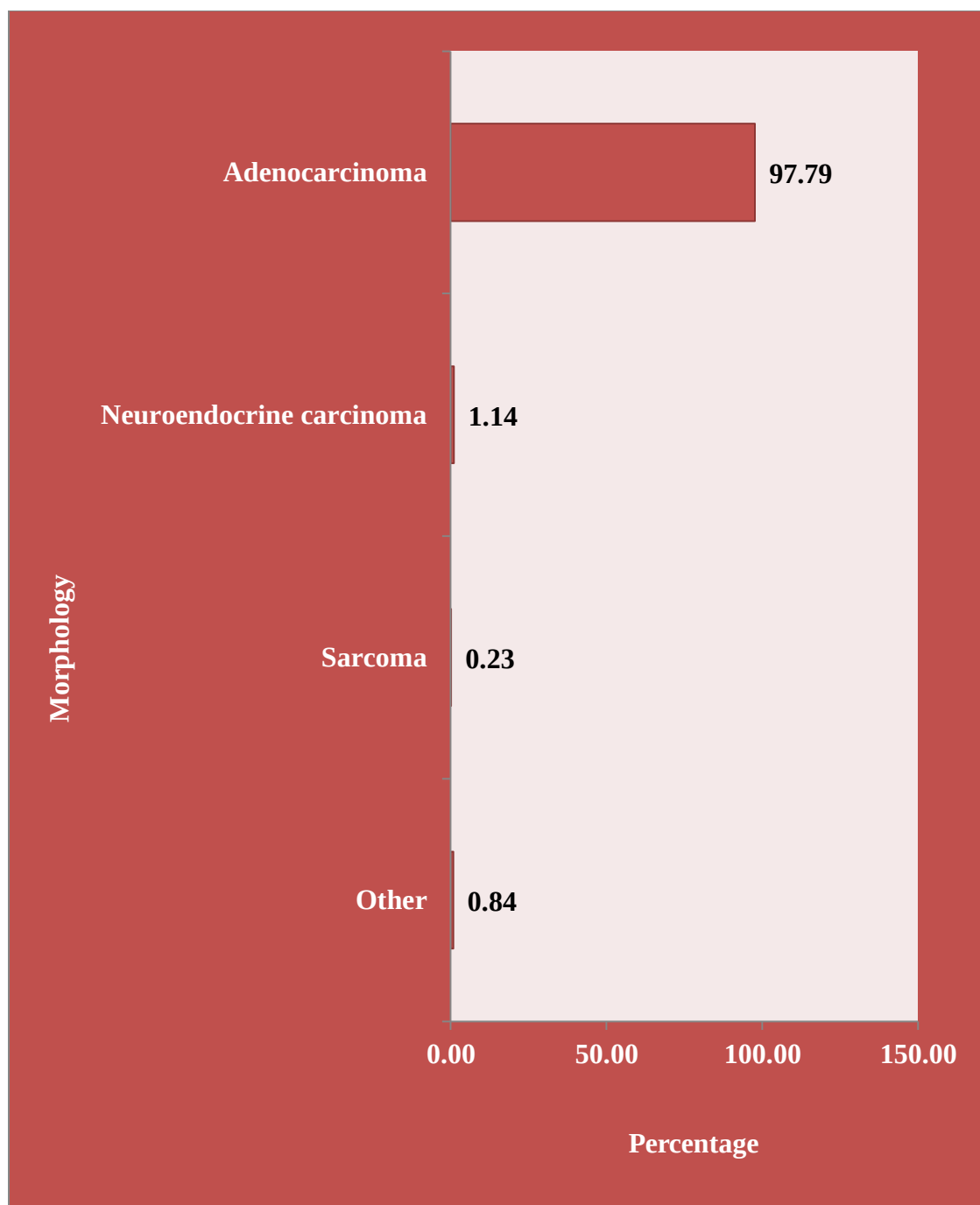


Figure No.; (72), shows that the highest percentage of the morphology of Brain & other CNS tumor was glioblastoma and the lowest chordoma.

Figure No.; (72) Brain & other CNS tumor in the males by the type of morphology, Iraq, 2021

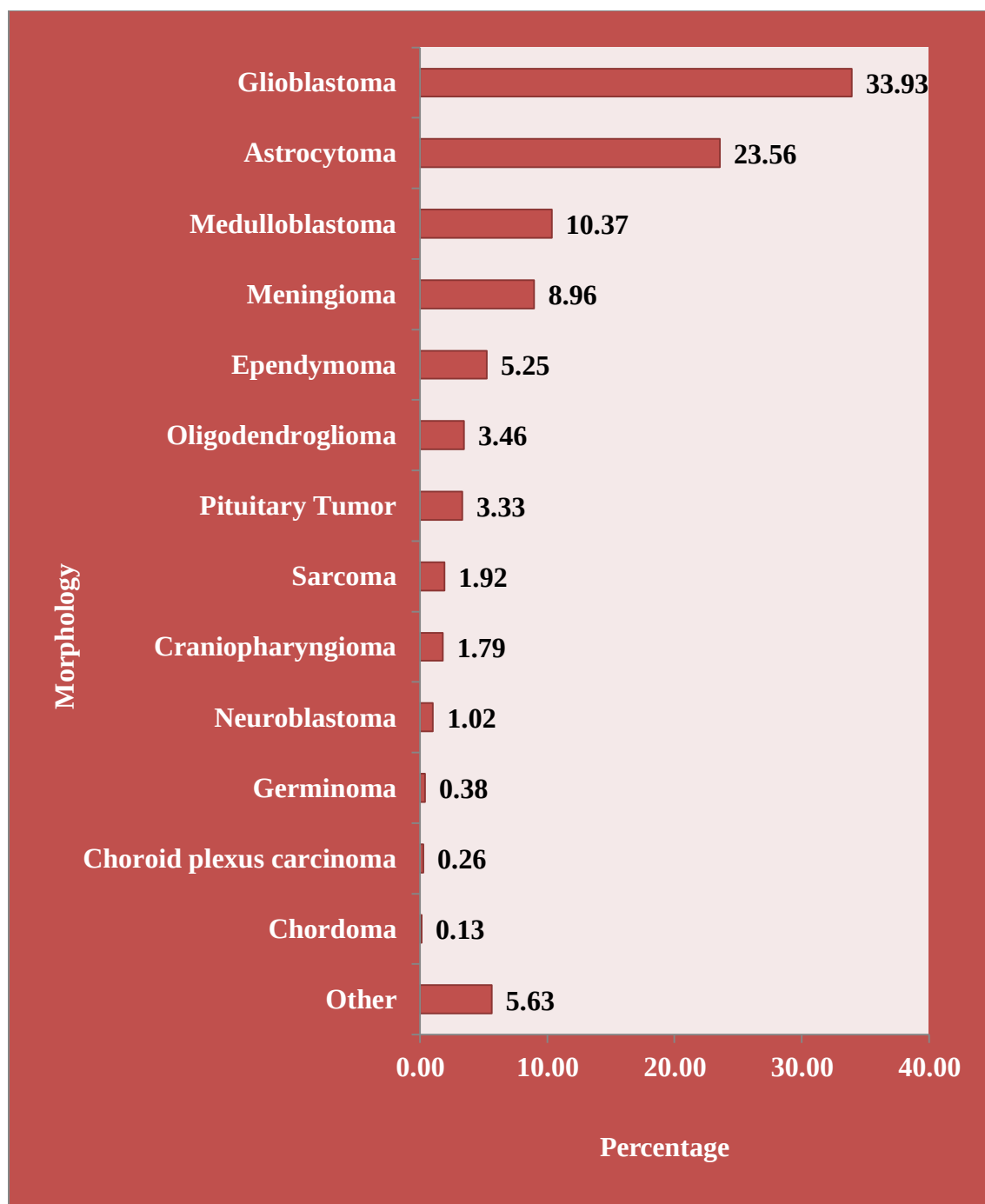


Figure No.; (73), shows that the highest percentage of the morphology of leukemia was acute myeloid leukemia and the lowest hairy cell leukemia.

Figure No.; (73) Leukemia in the males by the type of morphology, Iraq, 2021

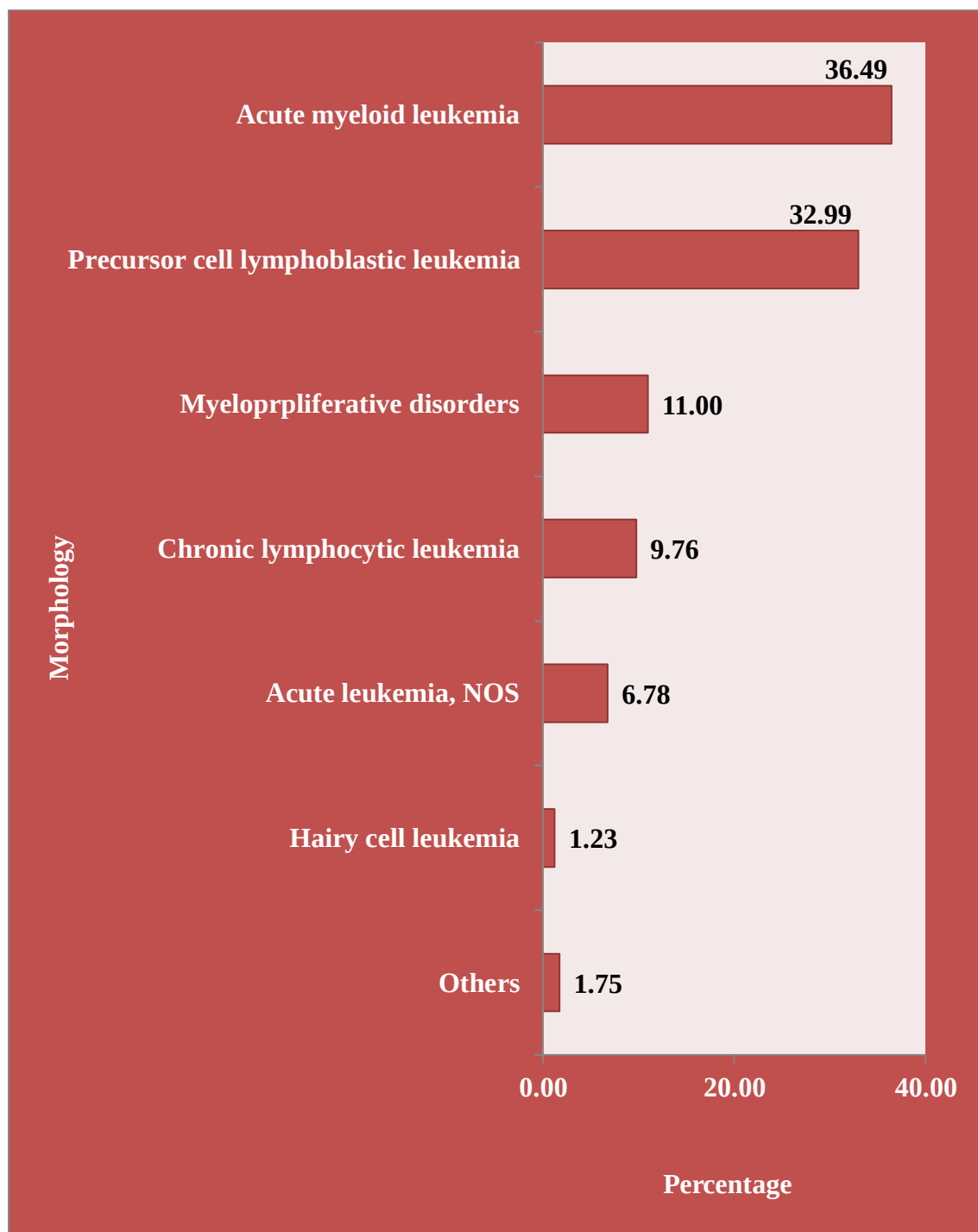


Figure No.; (74), shows that the highest percentage of the morphology of Non-Hodgkin lymphoma was diffuse large B-cell Non-Hodgkin lymphoma and the lowest marginal zone B-cell lymphoma, NOS.

Figure No.; (74) Non-Hodgkin lymphoma in the males by the type of morphology, Iraq, 2021

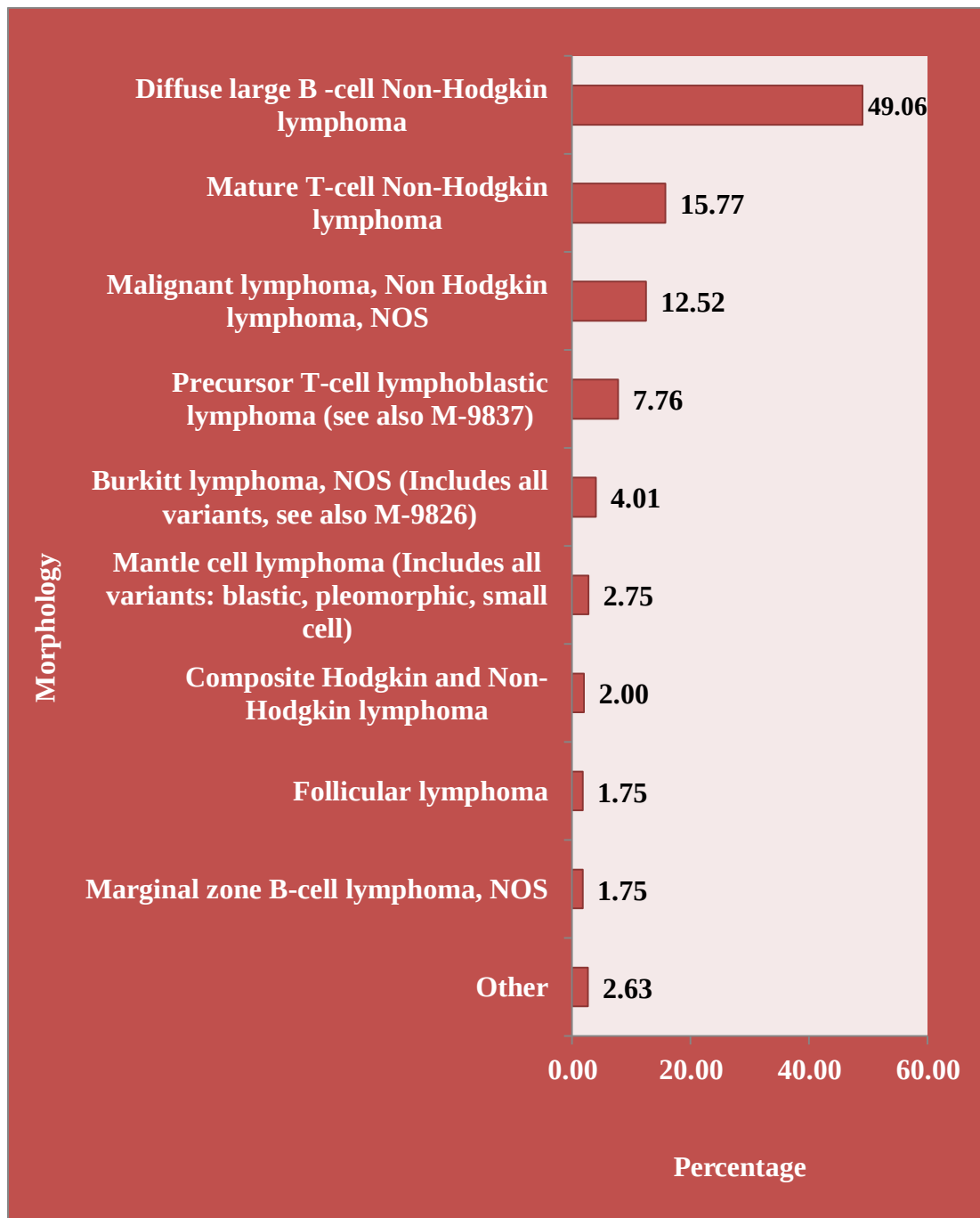


Figure No.; (75), shows that the highest percentage of the morphology of skin, other cancer was basal cell carcinoma and the lowest dermatofibrosarcoma, NOS.

**Figure No.; (75) Skin, other cancer in the males by the type of morphology,
Iraq, 2021**

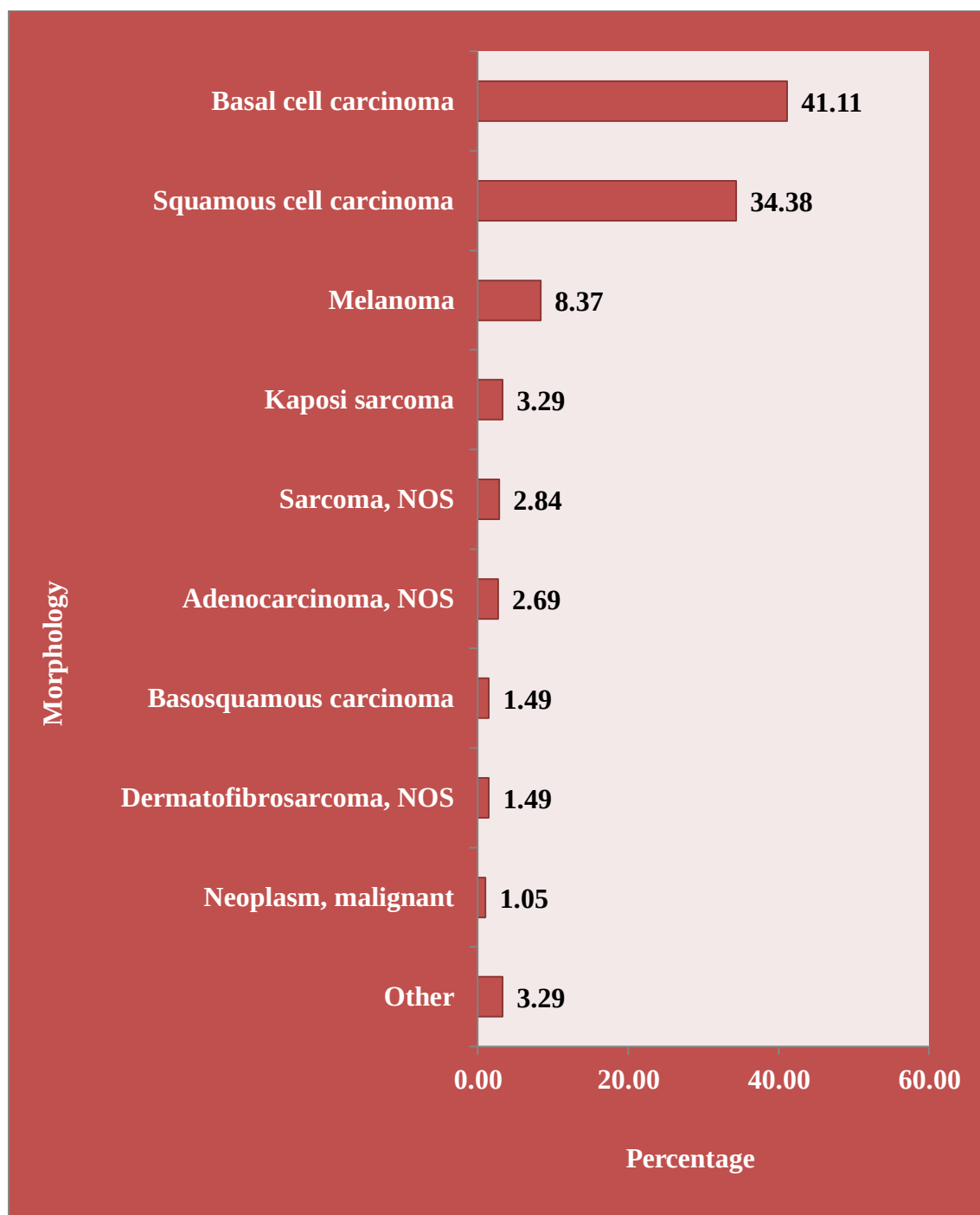


Figure No.; (76), shows that the highest percentage of the morphology of stomach cancer was adenocarcinoma and the lowest squamous cell carcinoma.

**Figure No.; (76) Stomach cancer in the males by the type of morphology,
Iraq, 2021**

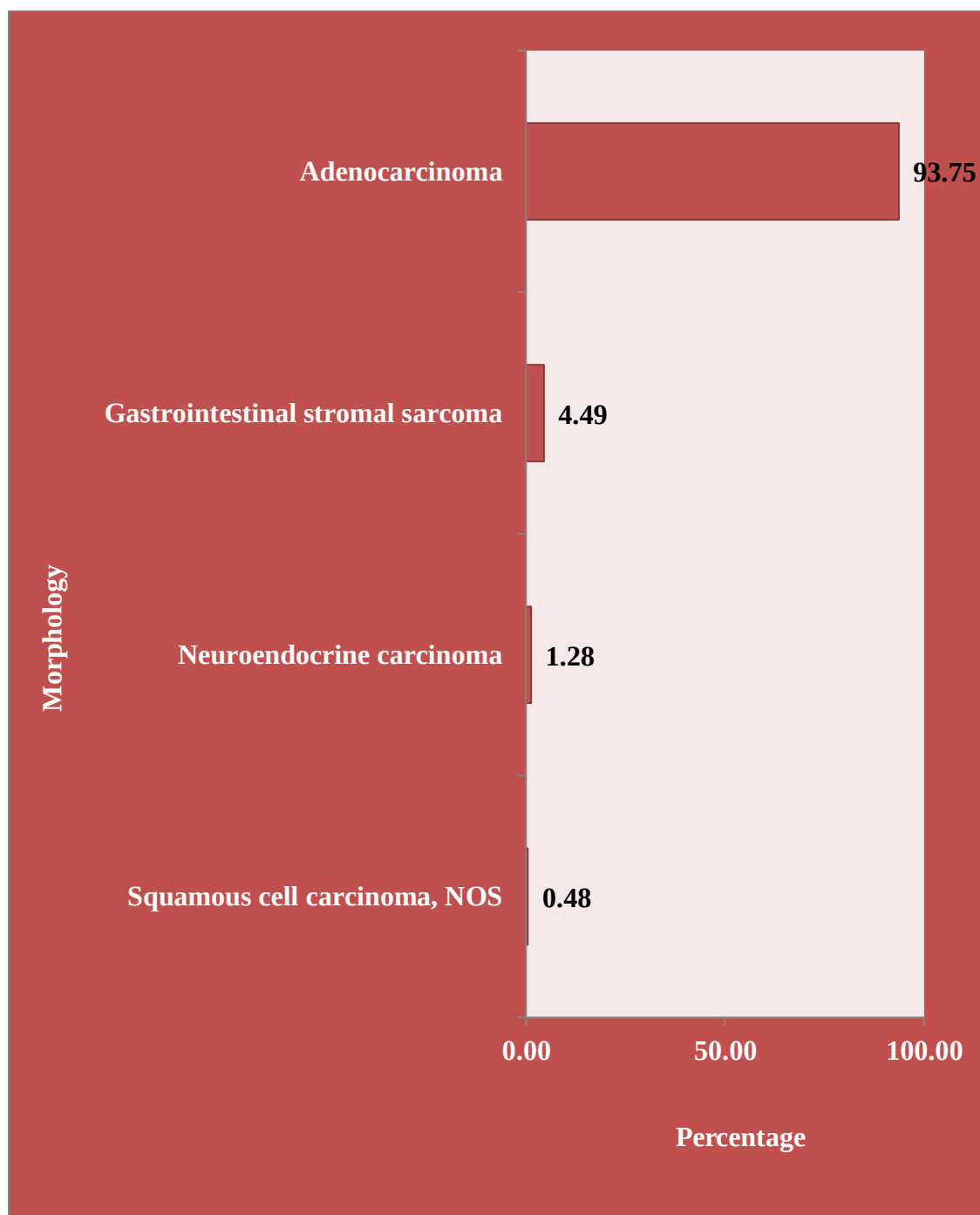
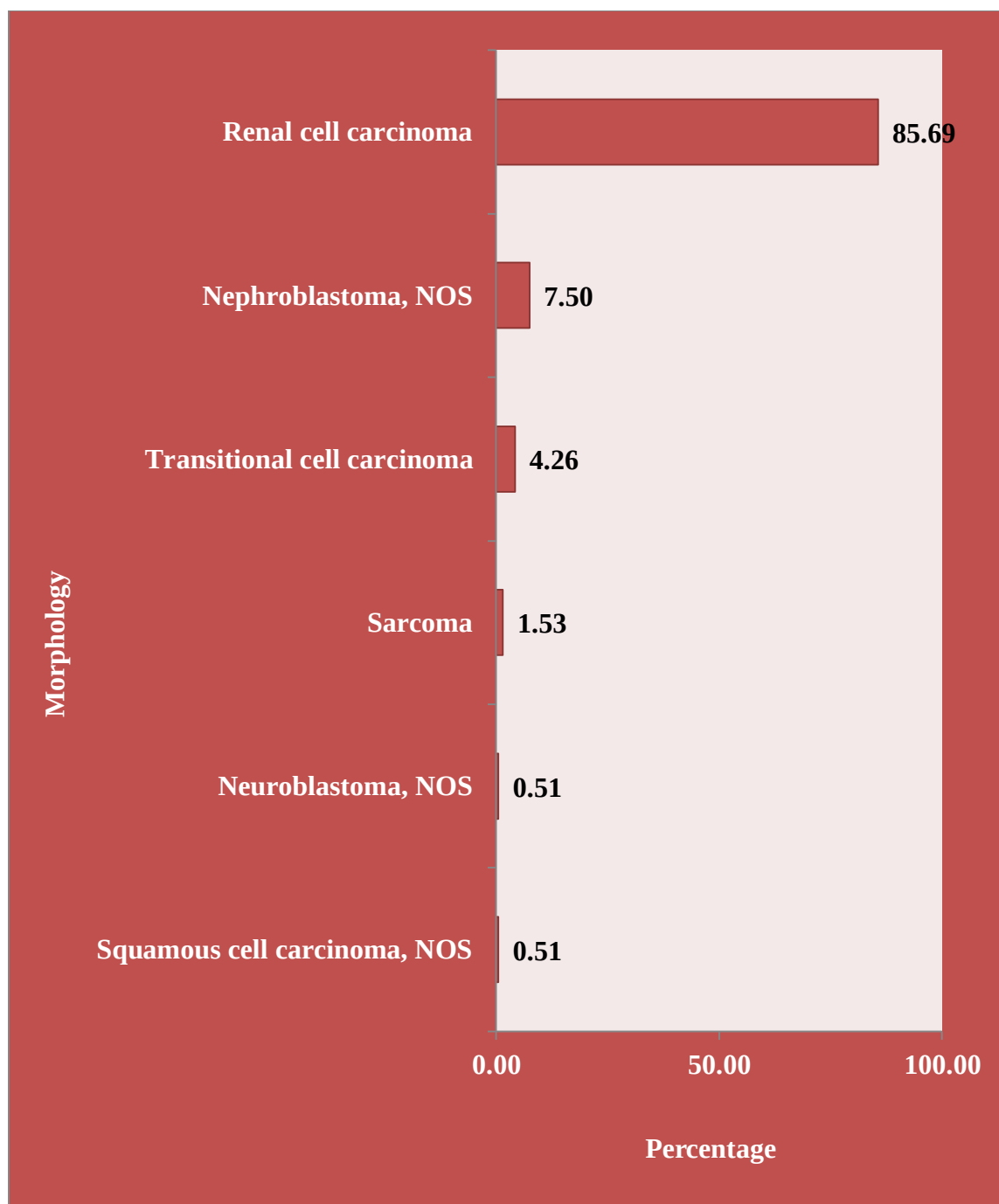


Figure No.; (77), shows that the highest percentage of the morphology of kidney cancer was renal cell carcinoma and the lowest squamous cell carcinoma.

**Figure No.; (77) Kidney cancer in the males by the type of morphology,
Iraq, 2021**



3.5.2. Morphology of the top ten cancers in the females, Iraq, 2021.

Figure No.; (78), shows that the highest percentage of the morphology of breast cancer was infiltrating duct carcinoma and the lowest adenoid cystic carcinoma.

Figure No.; (78) Breast cancer in the females by the type of morphology, Iraq, 2021

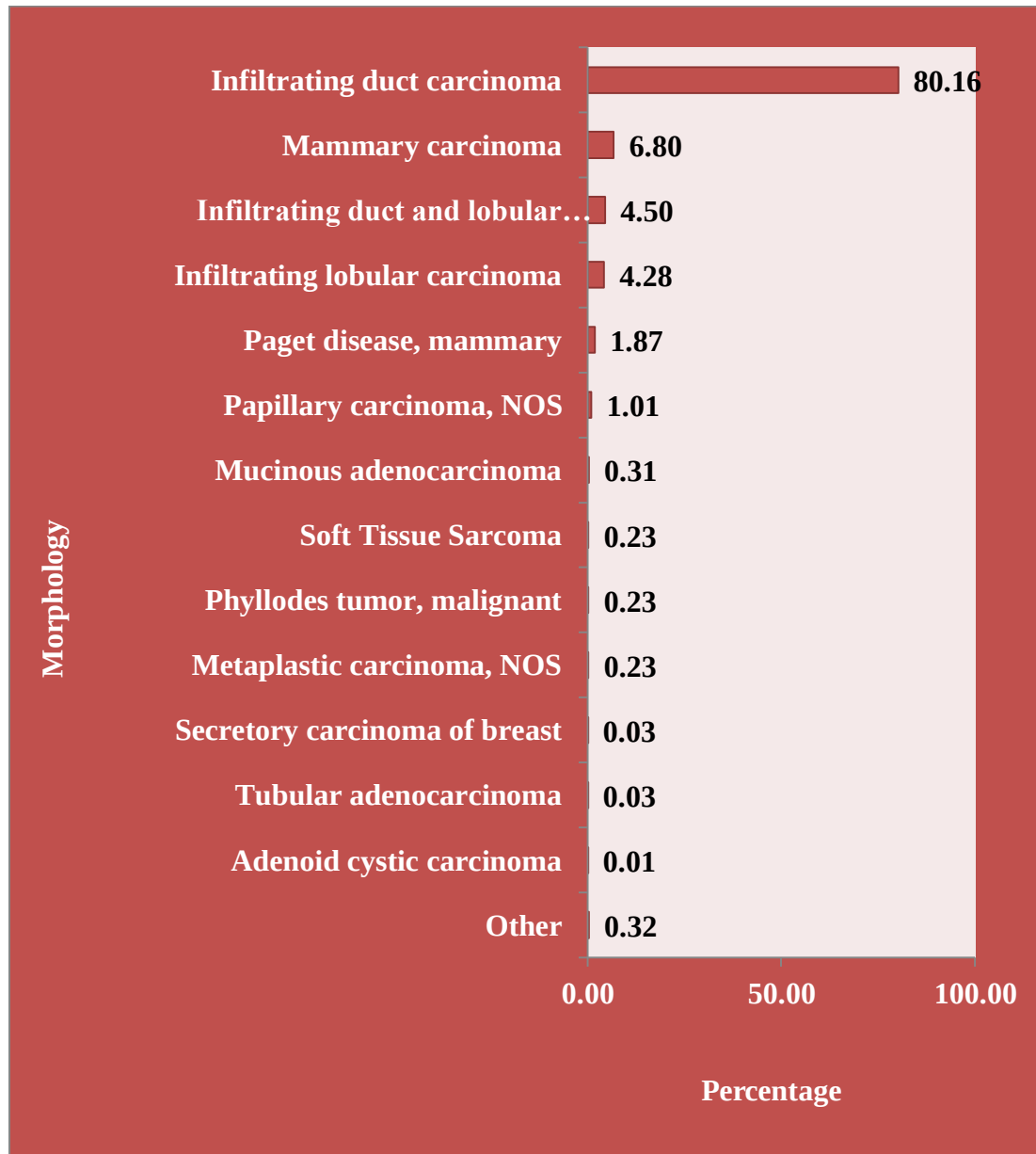


Figure No.; (79), shows that the highest percentage of the morphology of thyroid gland cancer was papillary carcinoma, NOS and the lowest carcinoma anaplastic.

Figure No.; (79) Thyroid gland cancer in the females by the type of morphology, Iraq, 2021

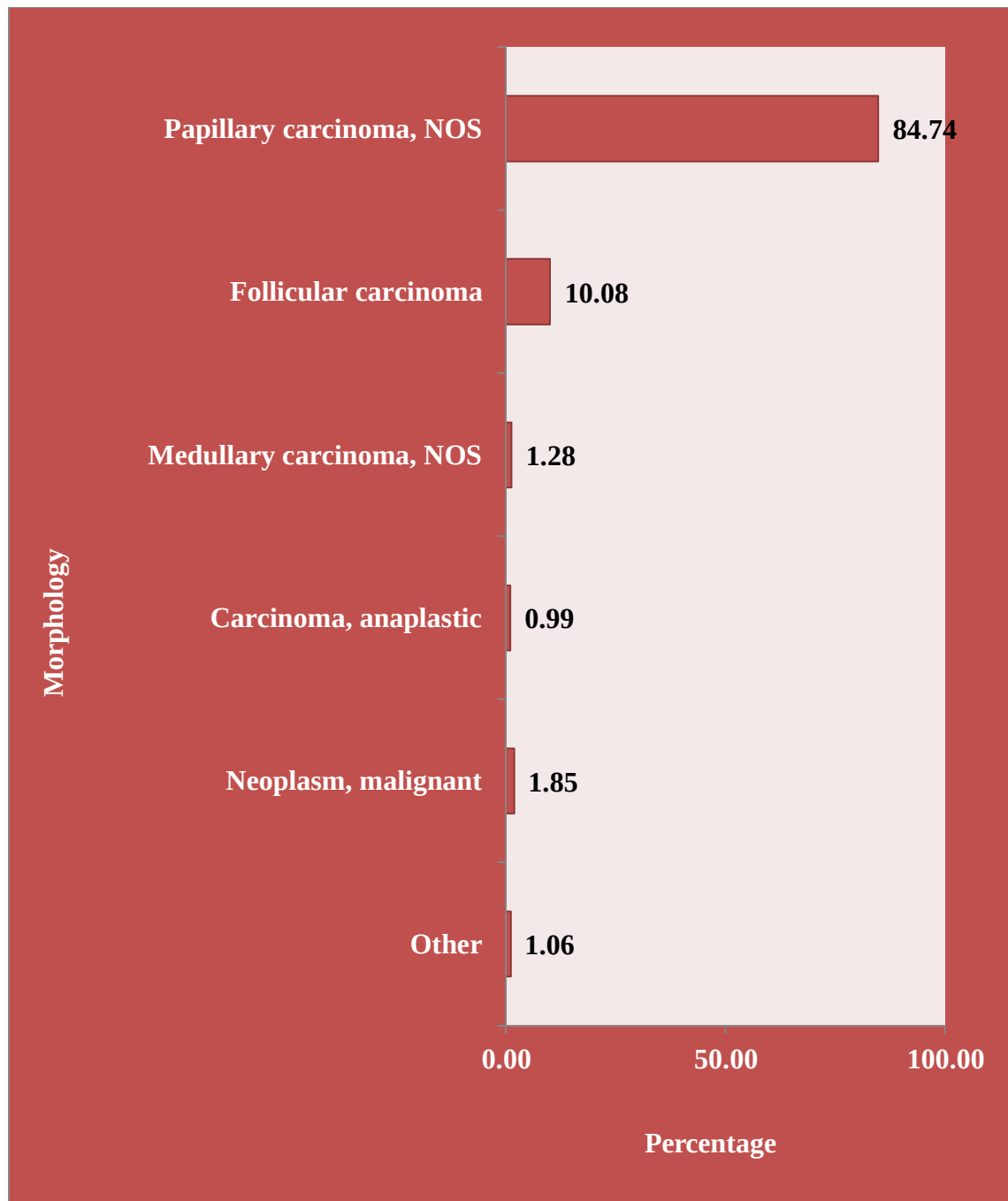


Figure No.; (80), shows that the highest percentage of the morphology of colorectal cancer was adenocarcinoma and the lowest gastrointestinal stromal sarcoma.

**Figure No.; (80) Colorectal cancer in the females by the type of morphology,
Iraq, 2021**

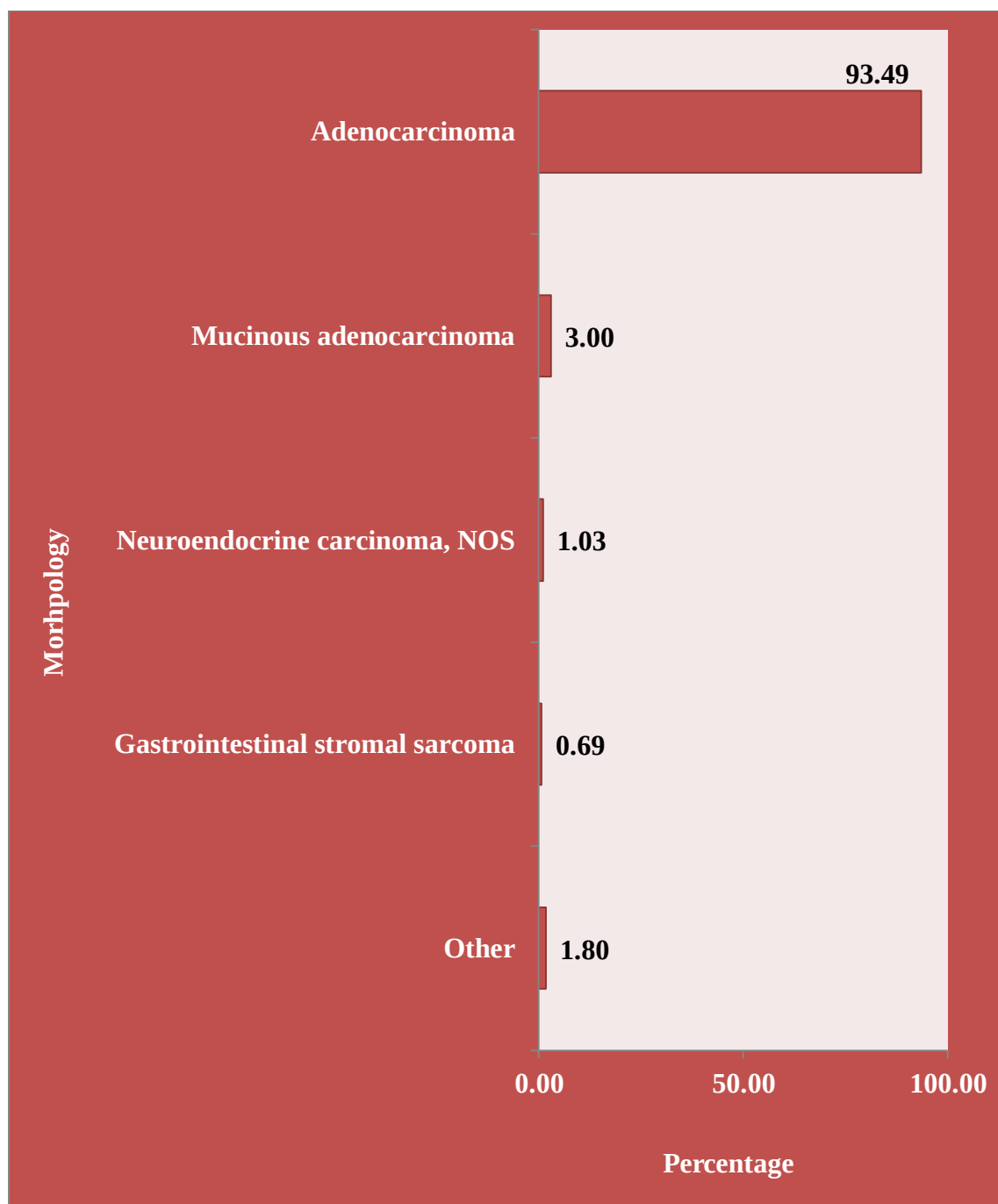


Figure No.; (81), shows that the highest percentage of the morphology of brain & other CNS tumor was glioblastoma and the lowest chordoma.

Figure No.; (81) Brain & other CNS tumor in the females by the type of morphology, Iraq, 2021

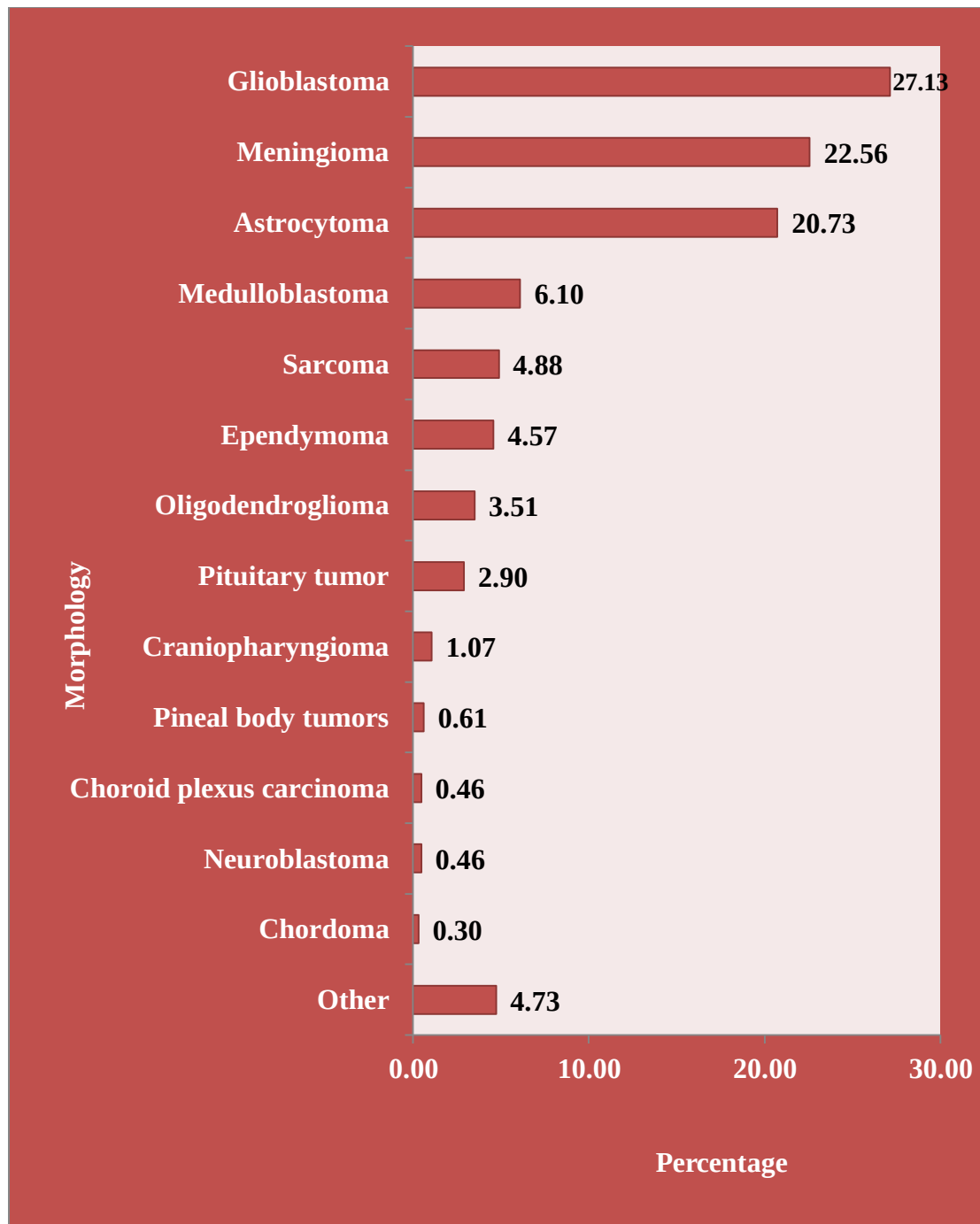


Figure No.; (82), shows that the highest percentage of the morphology of bronchus & lung cancer was adenocarcinoma, NOS and the lowest mesothelioma.

Figure No.; (82) Bronchus & lung cancer in the female by the type of morphology, Iraq, 2021

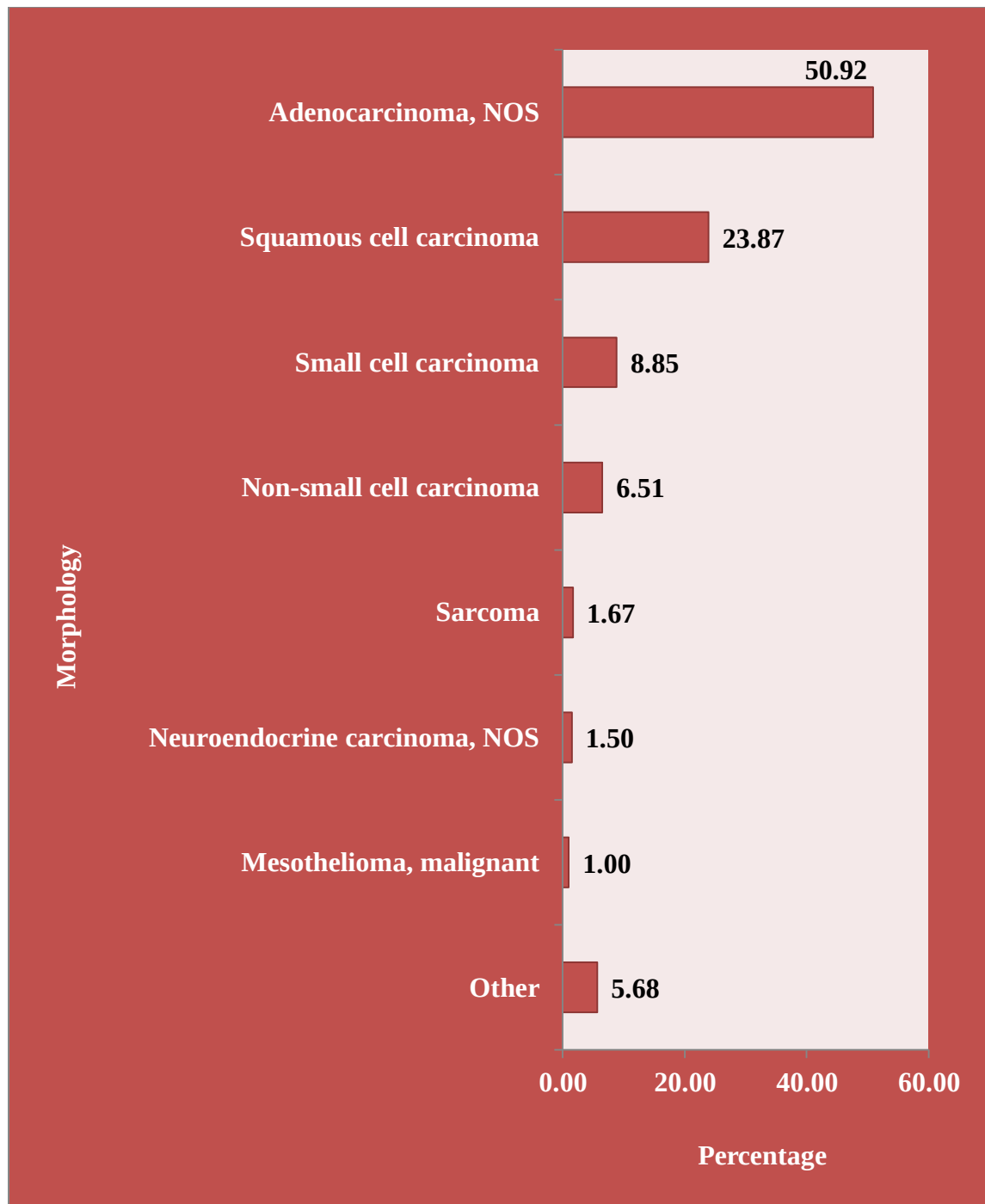


Figure No.; (83), shows that the highest percentage of the morphology of ovary cancer was serous carcinoma and the lowest sarcoma.

**Figure No.; (83) Ovary cancer in the females by the type of morphology,
Iraq, 2021**

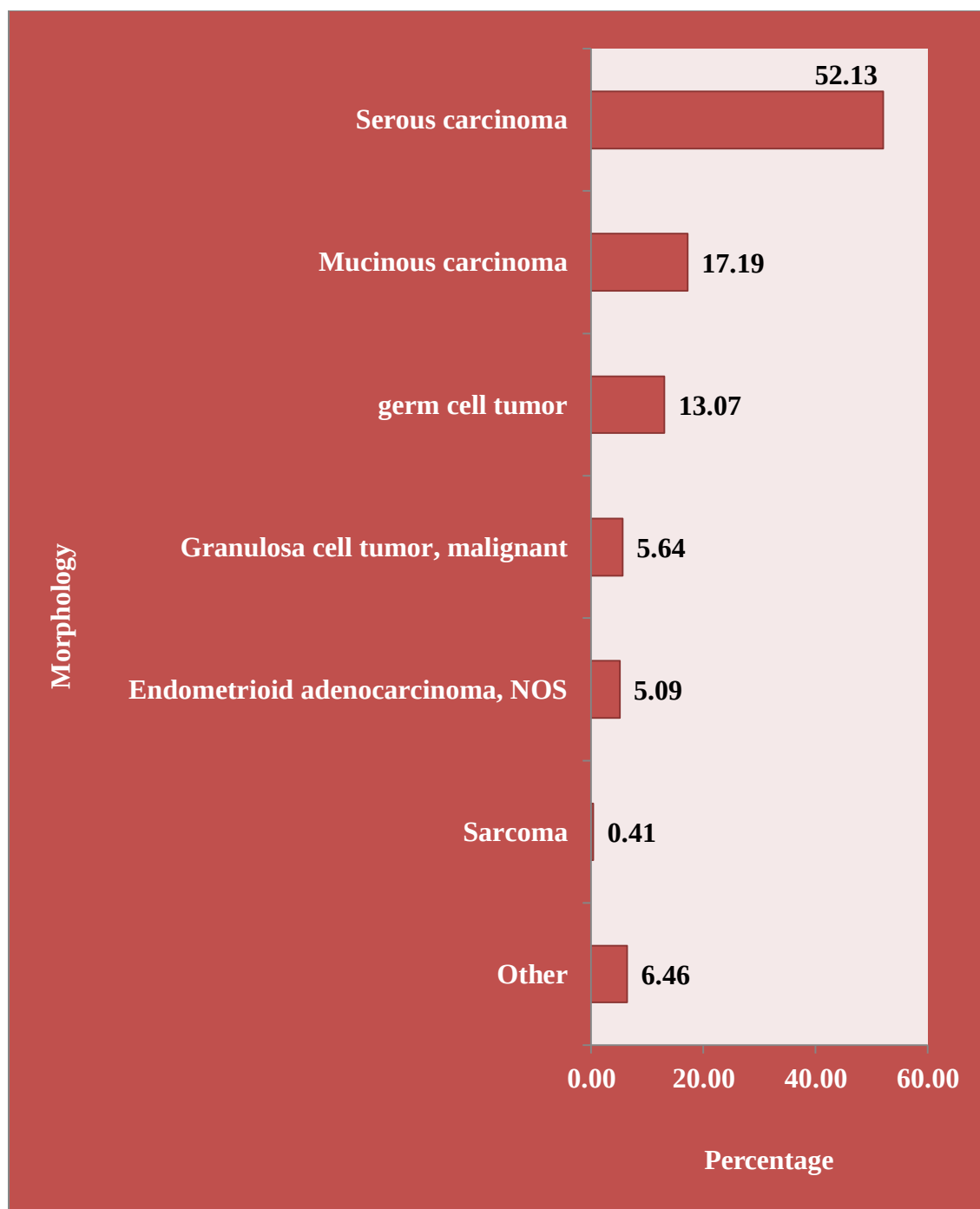


Figure No.; (84), shows that the highest percentage of the morphology of leukemia was acute myeloid leukemia and the lowest hairy cell leukemia.

Figure No.; (84) Leukemia in the females by the type of morphology, Iraq, 2021

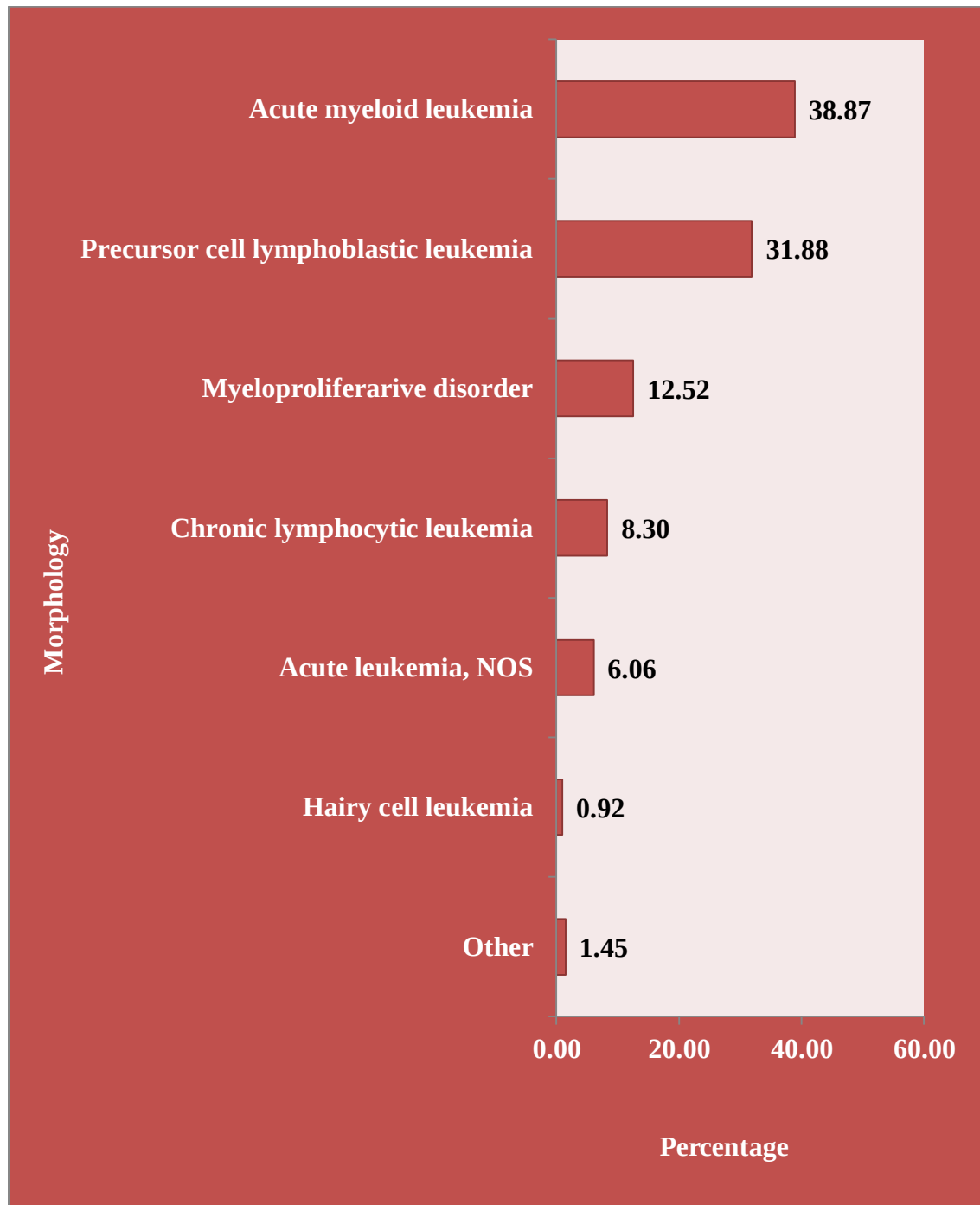


Figure No.; (85), shows that the highest percentage of the morphology of uterus unspecified cancer was endometrioid adenocarcinoma and the lowest choriocarcinoma.

Figure No.; (85) Uterus unspecified cancer in the females by the type of morphology, Iraq, 2021

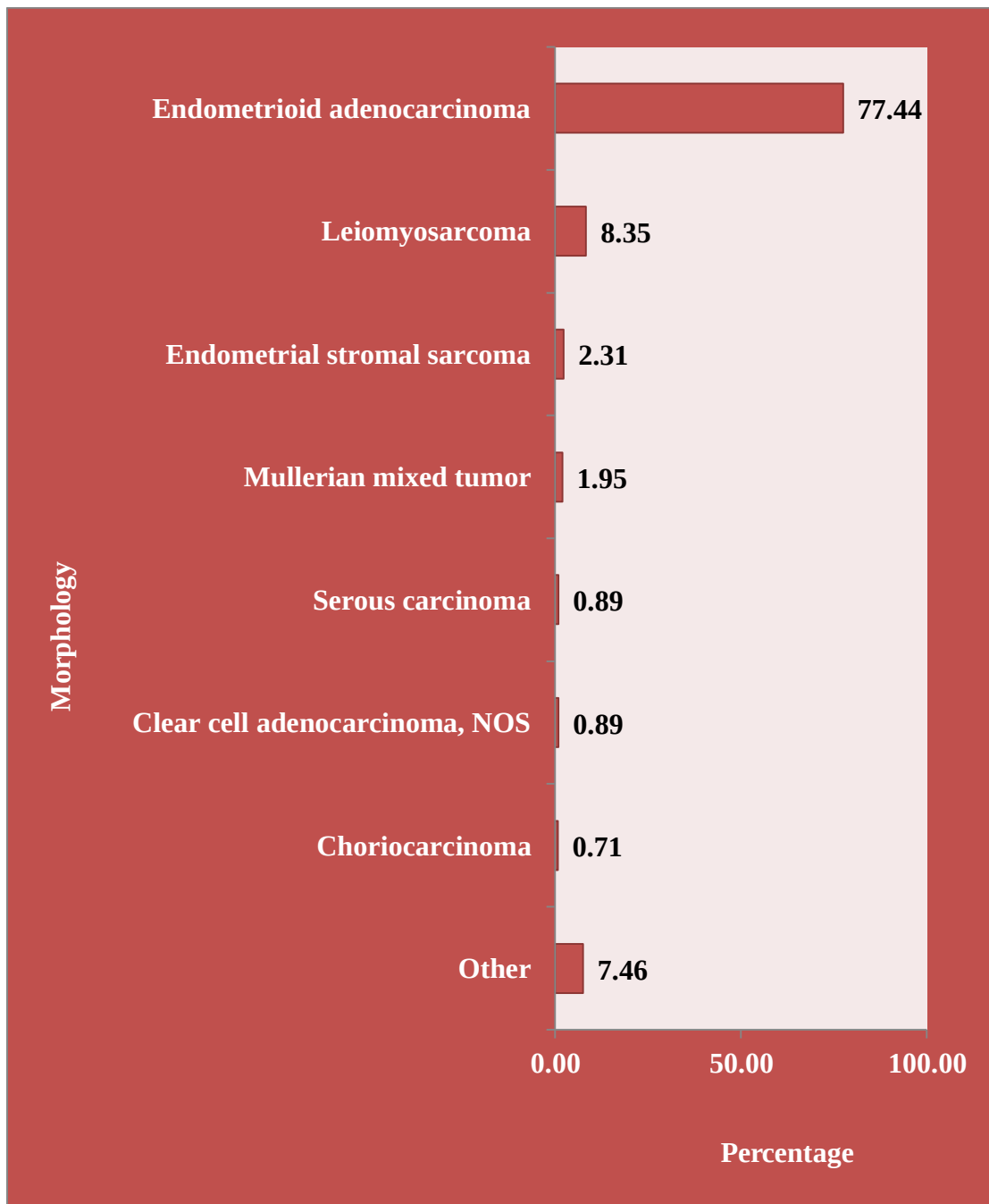


Figure No.; (86), shows that the highest percentage of the morphology of Non-Hodgkin lymphoma was malignant Non-Hodgkin lymphoma, large B-cell, diffuse, NOS and the lowest composite Hodgkin lymphoma and Non-Hodgkin lymphoma.

Figure No.; (86) Non-Hodgkin Lymphoma in the females by the type of morphology, Iraq, 2021

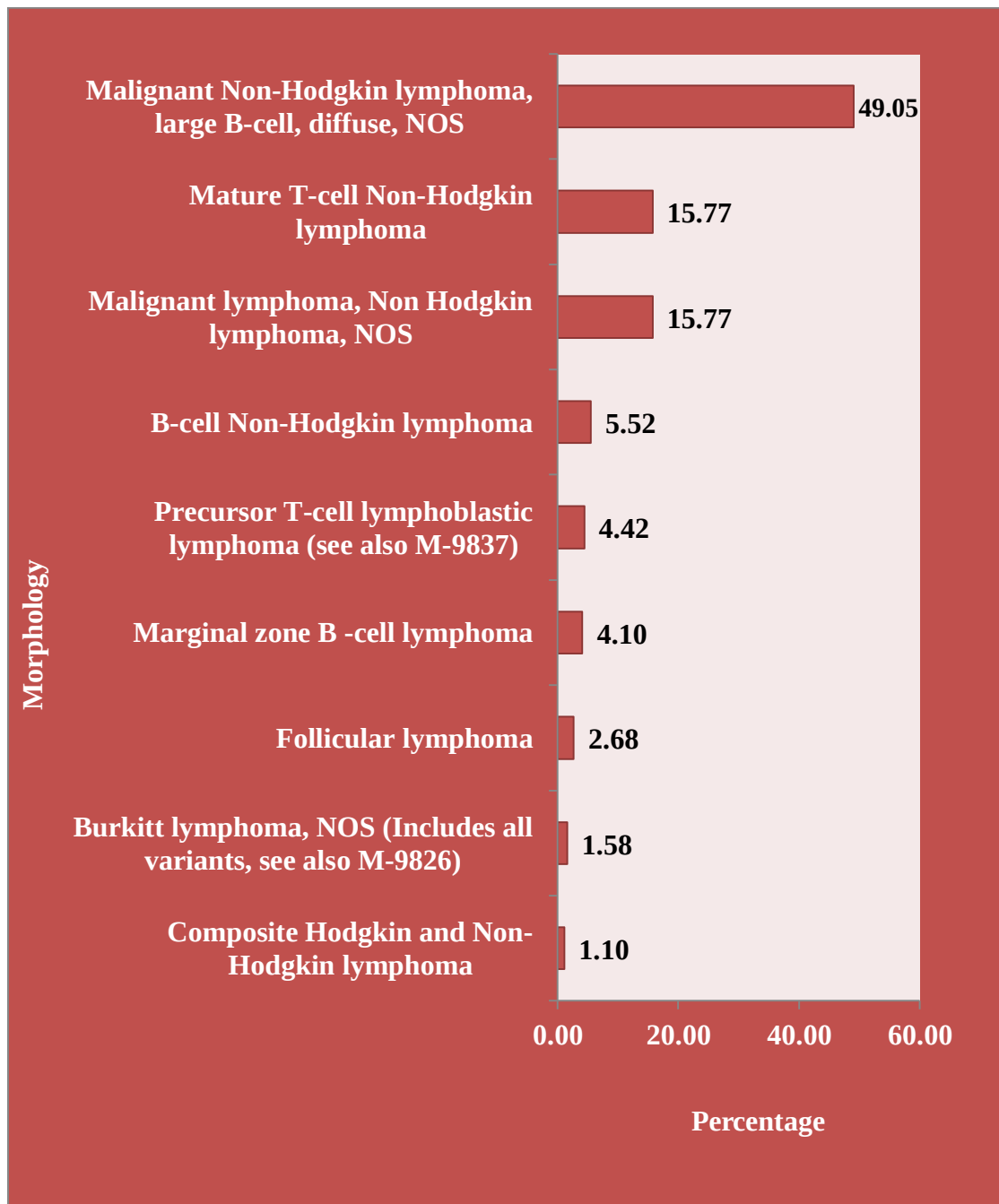
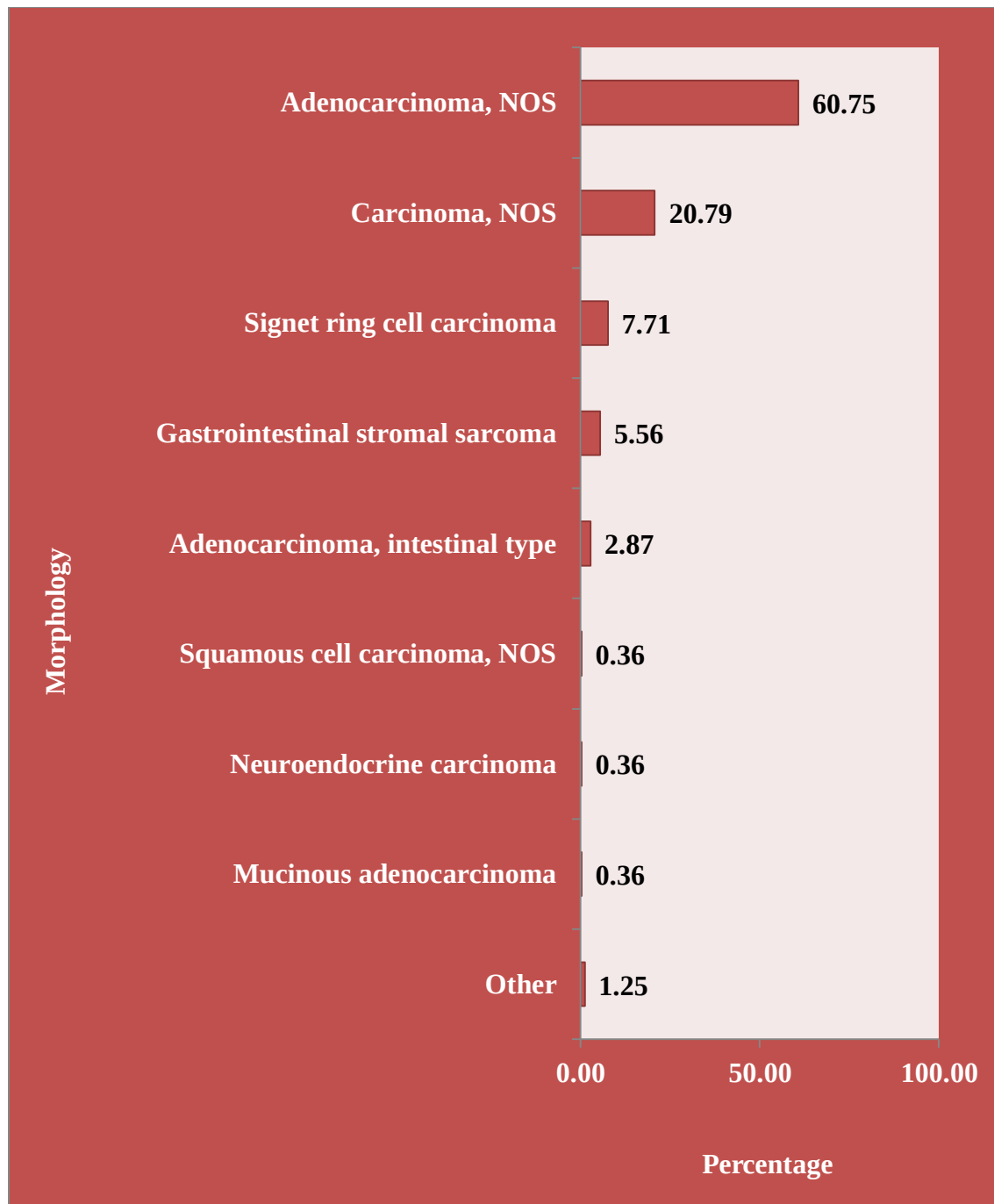


Figure No.; (87), shows that the highest percentage of the morphology of stomach cancer was adenocarcinoma and the lowest mucinous adenocarcinoma.

**Figure No.; (87) Stomach cancer in the females by the type of morphology,
Iraq, 2021**



Results

Child Cancer 0-14 Years

in Iraq 2021

3.6. Child cancer 0-14 years in Iraq in 2021:

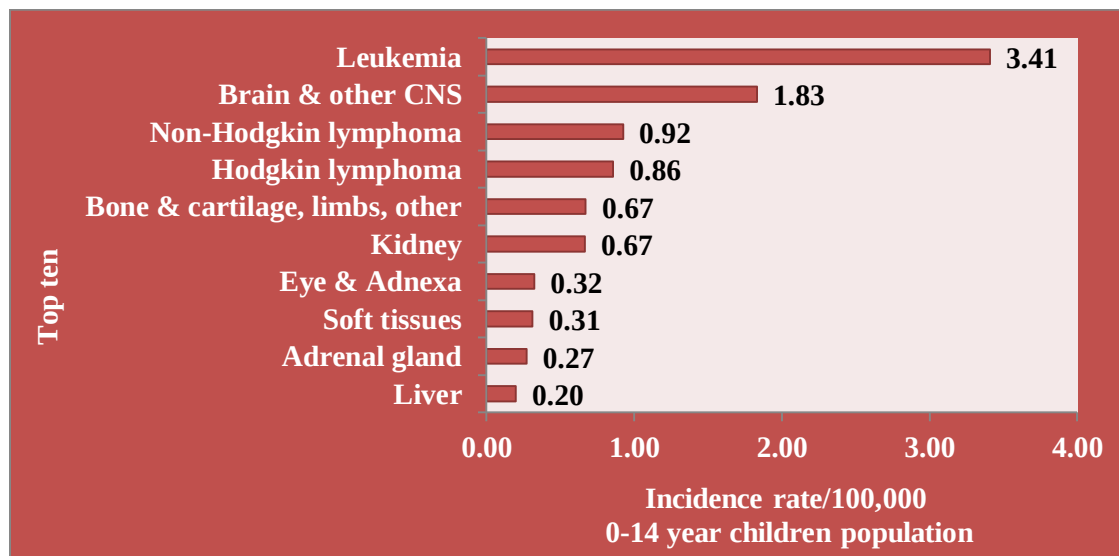
3.6.1. Number, percentage and the crude incidence rate/100,000 children 0-14 year population of the top ten cancers in, Iraq, 2021:

Table No.; (90), Figure No.; (88) shows that the highest number, percentage and crude incidence rate/100,000 children 0-14 year population of the top ten cancers in children was leukemia cancer and the lowest was liver cancer.

Table No.; (90) Number and percentage of top ten cancers in children 0-14 year, Iraq, 2021

Top ten	No.	%
1 Leukemia	568	36.02
2 Brain & other CNS	305	19.34
3 Non-Hodgkin lymphoma	154	9.77
4 Hodgkin lymphoma	143	9.07
5 Bone & cartilage, limbs, other	112	7.10
6 Kidney	111	7.04
7 Eye & Adnexa	54	3.42
8 Soft tissues	52	3.30
9 Adrenal gland	45	2.85
10 Liver	33	2.09
Total top ten	1577	100.00%

Figure No.; (88) Crude incidence rate of the top ten cancers in children 0-14 year /100, 000 children 0-14 year populations, Iraq, 2021



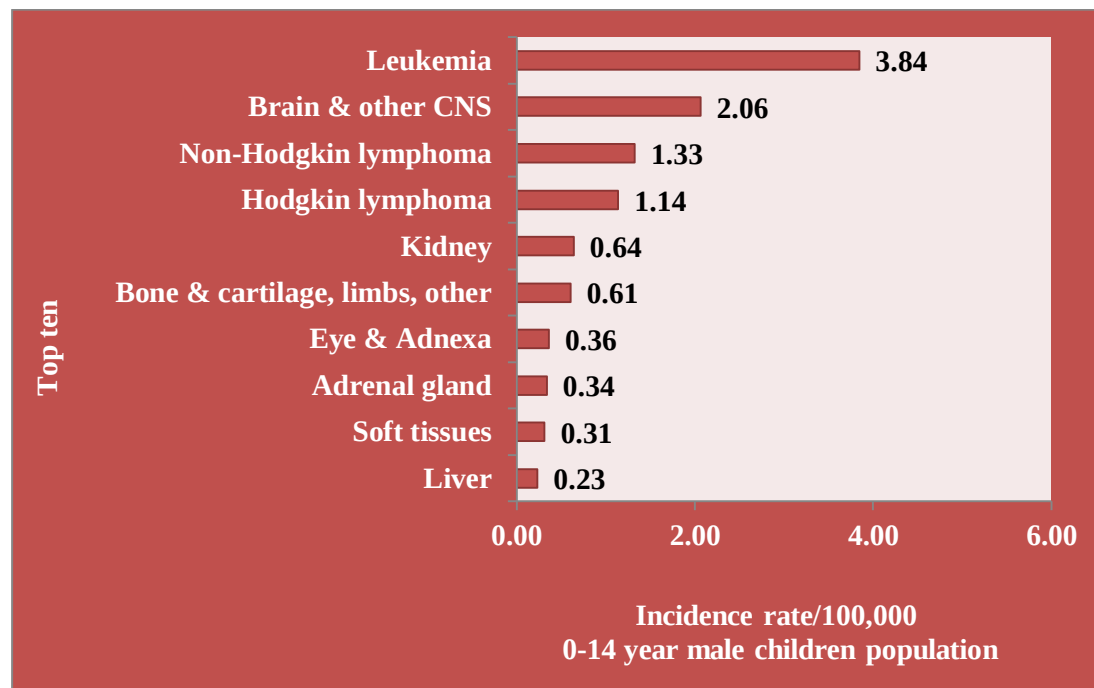
3.6.2. Number, percentage and the crude incidence rate/100,000 male children 0-14 year population of top ten cancers in male children, Iraq, 2021:

Table No.; (91), Figure No.; (89) shows that the highest number, percentage and crude incidence rate/100,000 male children 0-14 year population of the top ten cancers in male children was leukemia cancer and the lowest was liver cancer.

Table No.; (91) Number and percentage of the top ten cancers in male children 0-14 year, Iraq, 2021

Top ten	No.	%
1 Leukemia	330	35.37
2 Brain & other CNS	177	18.97
3 Non-Hodgkin lymphoma	114	12.22
4 Hodgkin lymphoma	98	10.50
5 Kidney	55	5.89
6 Bone & cartilage, limbs, other	52	5.57
7 Eye & Adnexa	31	3.32
8 Adrenal gland	29	3.11
9 Soft tissues	27	2.89
10 Liver	20	2.14
Total top ten	933	100.00%

Figure No.; (89) Crude incidence rate of the top ten cancers in male children 0-14 year /100, 000 male children 0-14 year populations, Iraq, 2021



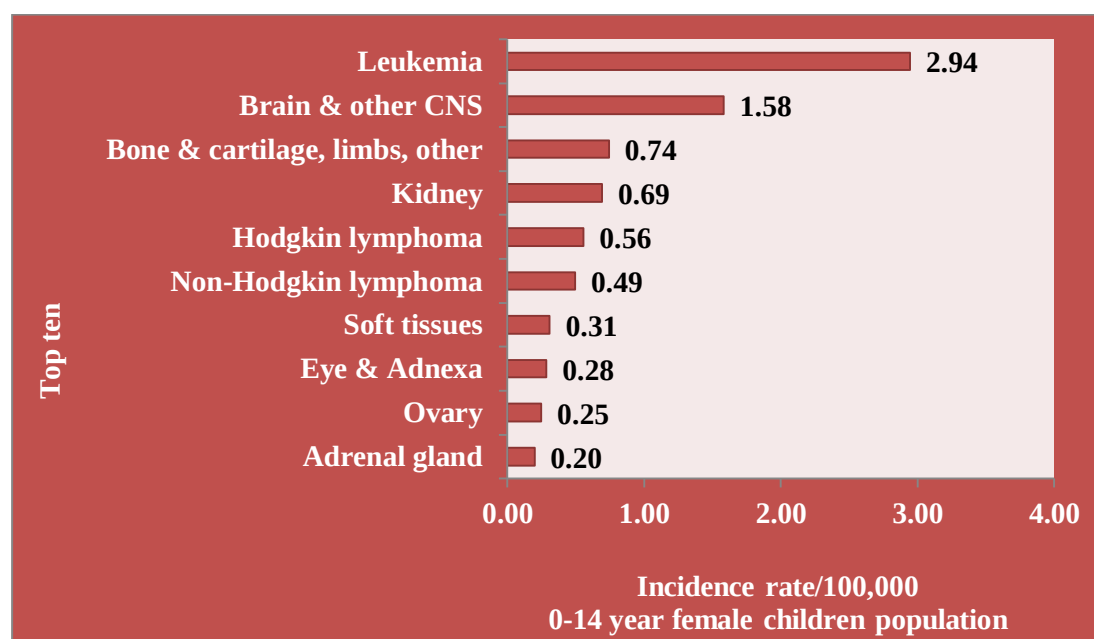
3.6.3. Number, percentage and the crude incidence rate/100,000 female children 0-14 year population of top ten cancers in female children, Iraq, 2021:

Table No.; (92), Figure No.; (90) shows that the highest number, percentage and crude incidence rate/100,000 female children 0-14 year population of the top ten cancers in female children was leukemia cancer and the lowest was adrenal gland cancer.

Table No.; (92) Number and percentage of the top ten cancers in female children 0-14 year, Iraq, 2021

Top ten	No.	%
1 Leukemia	238	36.56
2 Brain & other CNS	128	19.66
3 Bone & cartilage, limbs, other	60	9.22
4 Kidney	56	8.60
5 Hodgkin lymphoma	45	6.91
6 Non-Hodgkin lymphoma	40	6.14
7 Soft tissues	25	3.84
8 Eye & Adnexa	23	3.53
9 Ovary	20	3.07
10 Adrenal gland	16	2.46
Total top ten	651	100.00%

Figure No.; (90) Crude incidence rate of the top ten cancers in female children 0-14 year /100, 000 female children 0-14 year populations, Iraq, 2021



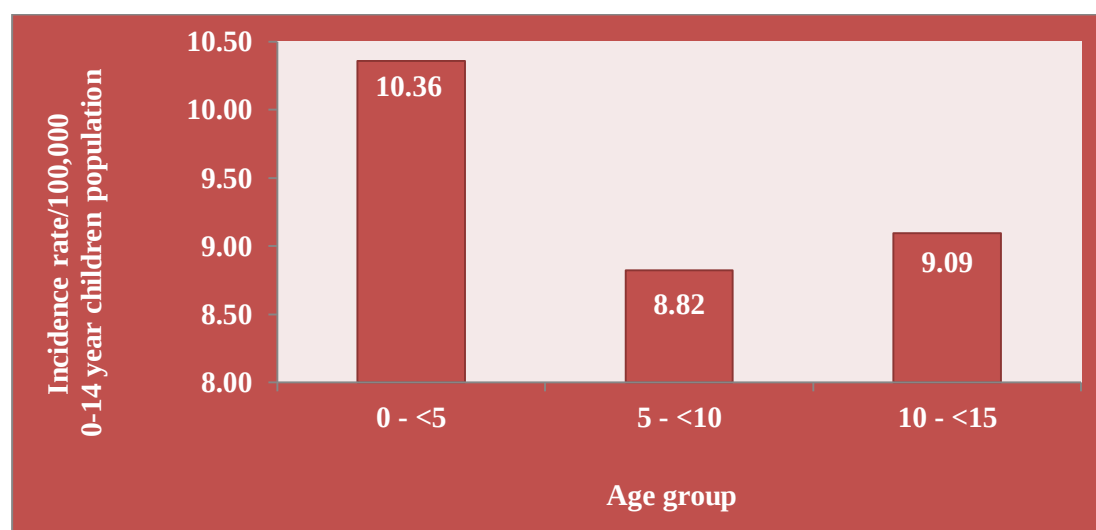
3.6.4. Number, percentage and the crude incidence rate/100,000 children 0-14 year population of the top ten cancers by age group, Iraq, 2021

Table No.; (93), Figure No.; (91) shows that the highest number, percentage was recorded among the age group 0 - < 5 years and the lowest among the age group 10 - < 15 years. While the highest crude incidence rate/100,000 children 0-14 year population was recorded among the age group 0 - < 5 years and the lowest among the age group 5 - < 10 years.

Table No.; (93) Number and percentage of the top ten cancers in children 0-14 year by age group, Iraq, 2021

Top ten	0 - <5		5 - <10		10 - <15		Total	
	No.	%	No.	%	No.	%	No.	%
1 Leukemia	263	16.68	168	10.65	137	8.69	568	36.02
2 Brain & Other CNS	82	5.20	117	7.42	106	6.72	305	19.34
3 Non-Hodgkin Lymphoma	45	2.85	59	3.74	50	3.17	154	9.77
4 Hodgkin Lymphomas	20	1.27	66	4.19	57	3.61	143	9.07
5 Bone & cartilage, limbs, other	13	0.82	24	1.52	75	4.76	112	7.10
6 Kidney	78	4.95	28	1.78	5	0.32	111	7.04
7 Eye & Adnexa	49	3.11	5	0.32	0	0.00	54	3.42
8 soft tissues	20	1.27	15	0.95	17	1.08	52	3.30
9 Adrenal Gland	34	2.16	10	0.63	1	0.06	45	2.85
10 Liver	22	1.40	4	0.25	7	0.44	33	2.09
Total top ten	626	39.70	496	31.45	455	28.85	1577	100.00%

Figure No.; (91) Crude incidence rate of the top ten cancers in children 0-14 year /100,000 children 0-14 year populations by age group, Iraq, 2021



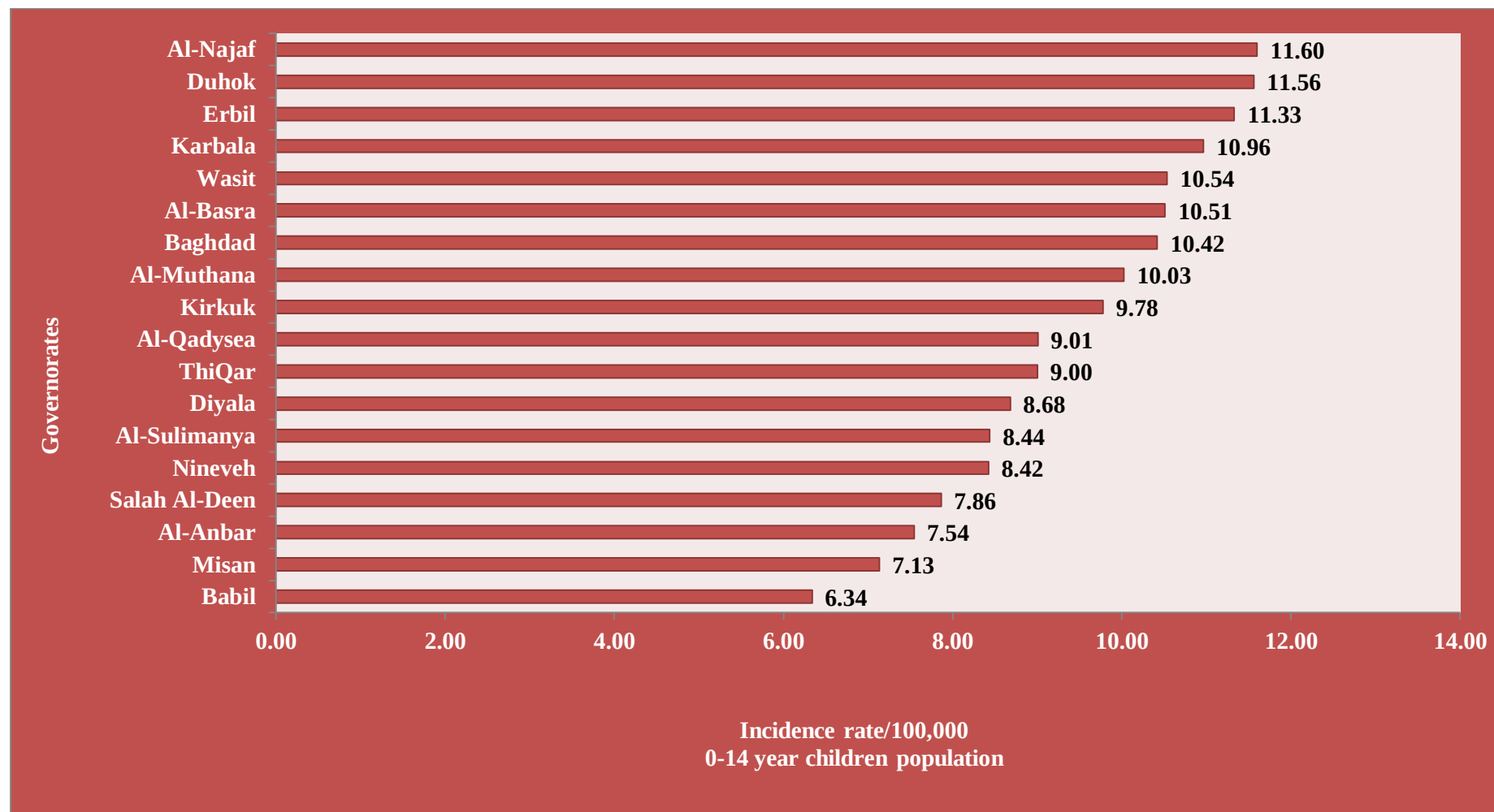
3.6.5. Number, percentage and the crude incidence rate/100,000 children 0-14 year population of the top ten cancers in children 0-14year by governorates, Iraq, 2021:

Table No.; (94), Figure No.; (92) shows that the highest number, percentage was recorded in Baghdad and the lowest in Al Muthana and Misan. While the highest crude incidence rate/100,000 children 0-14 year population was recorded in Al-Najaf and the lowest recorded in Babil.

Table No.; (94) Number and percentage of the top ten cancers in children 0-14year by governorates, Iraq, 2021

Top ten	Al- Anbar	Al- Basrah	Al- Muthana	Al- Najaf	Al- Qadysea	Al- Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah Al- Deen	ThiQar	Wasit	Un.	Total
Leukemia	18	56	12	27	13	17	16	125	24	22	32	20	34	21	49	22	37	23	0	568
Brain & other CNS	14	22	6	14	11	15	9	85	14	13	15	9	8	5	26	11	15	10	3	305
Non-Hodgkin lymphoma	7	14	4	11	8	5	5	32	3	7	9	5	9	3	17	5	2	8	0	154
Hodgkin lymphoma	9	18	3	4	7	4	6	23	3	10	12	9	2	0	13	4	10	6	0	143
Bone & cartilage, limbs, other	7	5	2	9	2	5	8	18	4	5	6	7	4	2	10	5	8	5	0	112
Kidney	3	7	6	4	2	7	6	23	3	8	7	2	2	4	8	4	5	10	0	111
Eye & Adnexa	1	5	1	1	2	4	3	11	6	0	1	3	3	1	6	2	3	1	0	54
Soft tissues	2	9	3	3	3	0	4	9	2	1	3	0	1	1	7	2	2	0	0	52
Adrenal gland	0	4	1	4	4	3	0	4	1	0	1	4	2	1	10	1	4	1	0	45
Liver	0	3	0	0	2	6	2	8	1	0	0	0	1	0	4	2	2	2	0	33
Total top ten	61	143	38	77	54	66	59	338	61	66	86	59	66	38	150	58	88	66	3	1577
Percentage	3.87	9.07	2.41	4.88	3.42	4.19	3.74	21.43	3.87	4.19	5.45	3.74	4.19	2.41	9.51	3.68	5.58	4.19	0.19	100.00

Figure No.; (92) Crude incidence rate of the top ten cancers in children 0-14 year /100,000 children 0-14 year populations by governorates, Iraq, 2021



3.6.6. Number, percentage and the crude incidence rate/100,000 children 0-14 year population of cancer in children 0-14 year by ICD-O code, site of tumor and gender, Iraq, 2021:

Table No.; (95) Number, percentage and the crude incidence rate/100,000 children 0-14 year population of cancer in children 0-14 year by ICD-O code, site of tumor and gender, Iraq, 2021

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C02 / Tongue, other		0	0.00	0.00	1	0.06	0.01	1	0.06	0.01
C05 / Mouth - palate		1	0.06	0.01	0	0.00	0.00	1	0.06	0.01
C07 / Parotid gland		1	0.06	0.01	0	0.00	0.00	1	0.06	0.01
C08 / Mouth glands		2	0.11	0.01	0	0.00	0.00	2	0.11	0.01
C09 / Tonsil		0	0.00	0.00	2	0.11	0.01	2	0.11	0.01
C11 / Nasopharynx		8	0.44	0.05	1	0.06	0.01	9	0.50	0.05
C17 / Small intestine		2	0.11	0.01	0	0.00	0.00	2	0.11	0.01
C22 / Liver & bile ducts		13	0.72	0.08	20	1.11	0.12	33	1.83	0.20
C25 / Pancreas		1	0.06	0.01	2	0.11	0.01	3	0.17	0.02
C30 / Nasal cavity		0	0.00	0.00	2	0.11	0.01	2	0.11	0.01
C31 / Accessory sinus		0	0.00	0.00	2	0.11	0.01	2	0.11	0.01
C32 / Larynx		0	0.00	0.00	2	0.11	0.01	2	0.11	0.01
C34 / Bronchus & lung		2	0.11	0.01	2	0.11	0.01	4	0.22	0.02
C37 / Thymus		1	0.06	0.01	0	0.00	0.00	1	0.06	0.01
C38 / Heart, Mediastinum, pleura		1	0.06	0.01	5	0.28	0.03	6	0.33	0.04
C40 / Bone & cartilage, limbs		31	1.72	0.19	23	1.28	0.14	54	3.00	0.32
C41 / Bones & cartilage, other		29	1.61	0.17	29	1.61	0.17	58	3.22	0.35
C42 / Reticulo endothelial & Hematopoietic system	Chronic Myelo proliferative disorders	4	0.22	0.02	5	0.28	0.03	9	0.50	0.05
	Leukemia	238	13.21	1.43	330	18.31	1.98	568	31.52	3.41
	Myelo dysplastic syndromes	3	0.17	0.02	1	0.06	0.01	4	0.22	0.02
	Plasma cell tumor	0	0.00	0.00	2	0.11	0.01	2	0.11	0.01
C44 / Skin, other		12	0.67	0.07	12	0.67	0.07	24	1.33	0.14
C47 /Nerves system		13	0.72	0.08	19	1.05	0.11	32	1.78	0.19
C48 / Peritoneum		6	0.33	0.04	2	0.11	0.01	8	0.44	0.05
C49 / soft tissues		25	1.39	0.15	27	1.50	0.16	52	2.89	0.31
C50 / Breast		1	0.06	0.01	0	0.00	0.00	1	0.06	0.01
C52 / Vagina		1	0.06	0.01	0	0.00	0.00	1	0.06	0.01
C56 / Ovary		20	1.11	0.25	0	0.00	0.00	20	1.11	0.25
C57 / Female genital - other		1	0.06	0.01	0	0.00	0.00	1	0.06	0.01
C62 / Testis		0	0.00	0.00	14	0.78	0.16	14	0.78	0.16
C64 / Kidney		56	3.11	0.34	55	3.05	0.33	111	6.16	0.67
C67 / Urinary bladder		1	0.06	0.01	3	0.17	0.02	4	0.22	0.02
C69 / Eye & Adnexa		23	1.28	0.14	31	1.72	0.19	54	3.00	0.32
C70 / Meninges		1	0.06	0.01	3	0.17	0.02	4	0.22	0.02
C71 / Brain		117	6.49	0.70	164	9.10	0.98	281	15.59	1.69
C72 / Nervous system, other		6	0.33	0.04	4	0.22	0.02	10	0.55	0.06

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C73 / Thyroid gland		13	0.72	0.08	3	0.17	0.02	16	0.89	0.10
C74 / Adrenal gland		16	0.89	0.10	29	1.61	0.17	45	2.50	0.27
C75 / Endocrine gland, other		4	0.22	0.02	6	0.33	0.04	10	0.55	0.06
C76 / Unspecified site		16	0.89	0.10	14	0.78	0.08	30	1.66	0.18
C77 / Lymph node	Hodgkin lymphoma	45	2.50	0.27	98	5.44	0.59	143	7.94	0.86
	Non-Hodgkin lymphoma	40	2.22	0.24	114	6.33	0.68	154	8.55	0.92
C80 / Unknown primary site		7	0.39	0.04	14	0.78	0.08	21	1.17	0.13
Total		761	42.23	4.57	1041	57.77	6.25	1802	100.00	10.81

Note:

- * From C52 to C57 the incidence rate was calculated from the female population.
- * C62 the incidence rate was calculated from the male population.

Results

Cancer Mortality in Iraq **2021**

3.7. Cancer mortality in Iraq in 2021:

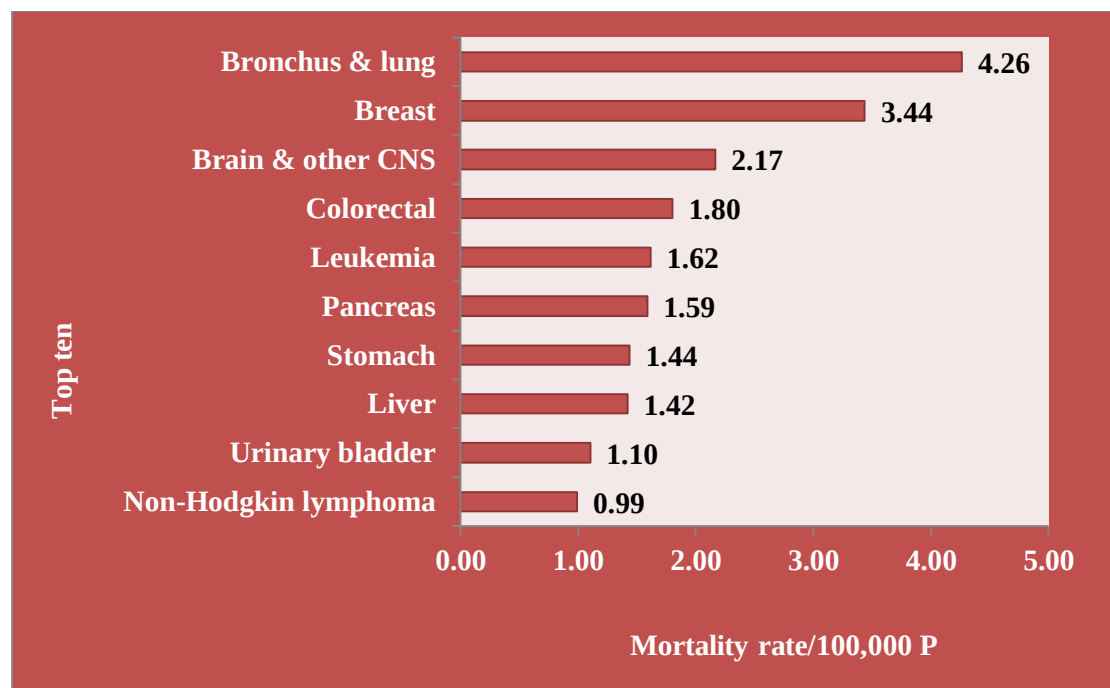
3.7.1. Number, percentage and the crude mortality rate/100,000 population of the top ten cancers in Iraq, 2021:

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

Table No.; (96) Number and percentage of the top ten cancers mortality, Iraq, 2021

Top ten	No.	%
1 Bronchus & lung	1756	21.51
2 Breast	1416	17.34
3 Brain & other CNS	892	10.92
4 Colorectal	743	9.10
5 Leukemia	666	8.16
6 Pancreas	654	8.01
7 Stomach	592	7.25
8 Liver	585	7.16
9 Urinary bladder	454	5.56
10 Non-Hodgkin lymphoma	407	4.98
Total top ten	8165	100.00%

Figure No.; (93) Crude mortality rate of the top ten cancers in Iraq/ 100,000 populations, 2021



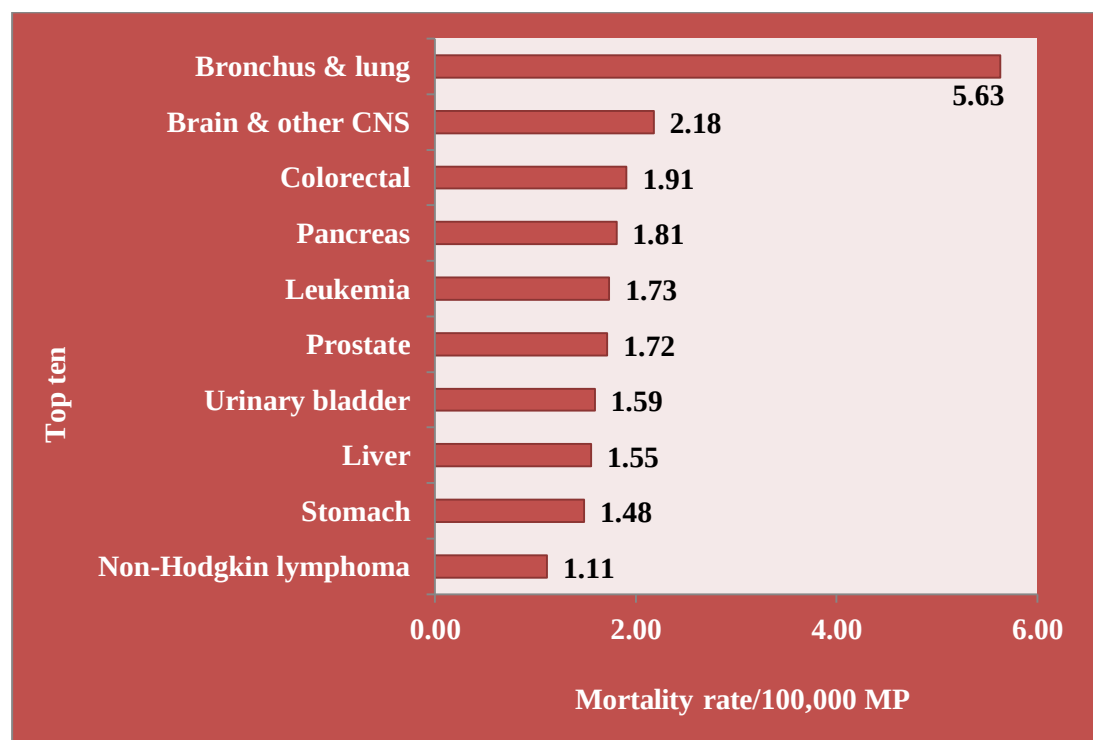
3.7.2. Number, percentage and the crude mortality rate/100,000 male population of the top ten cancers in male, Iraq, 2021:

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

Table No.; (97) Number and percentage of the top ten cancers mortality in males, Iraq, 2021

Top ten	No.	%
1 Bronchus & lung	1172	27.19
2 Brain & other CNS	453	10.51
3 Colorectal	397	9.21
4 Pancreas	376	8.72
5 Leukemia	361	8.37
6 Prostate	357	8.28
7 Urinary bladder	331	7.68
8 Liver	323	7.49
9 Stomach	309	7.17
10 Non-Hodgkin lymphoma	232	5.38
Total top ten	4311	100.00%

Figure No.; (94) Crude mortality rate of the top ten cancers in male/ 100,000 male populations, Iraq, 2021



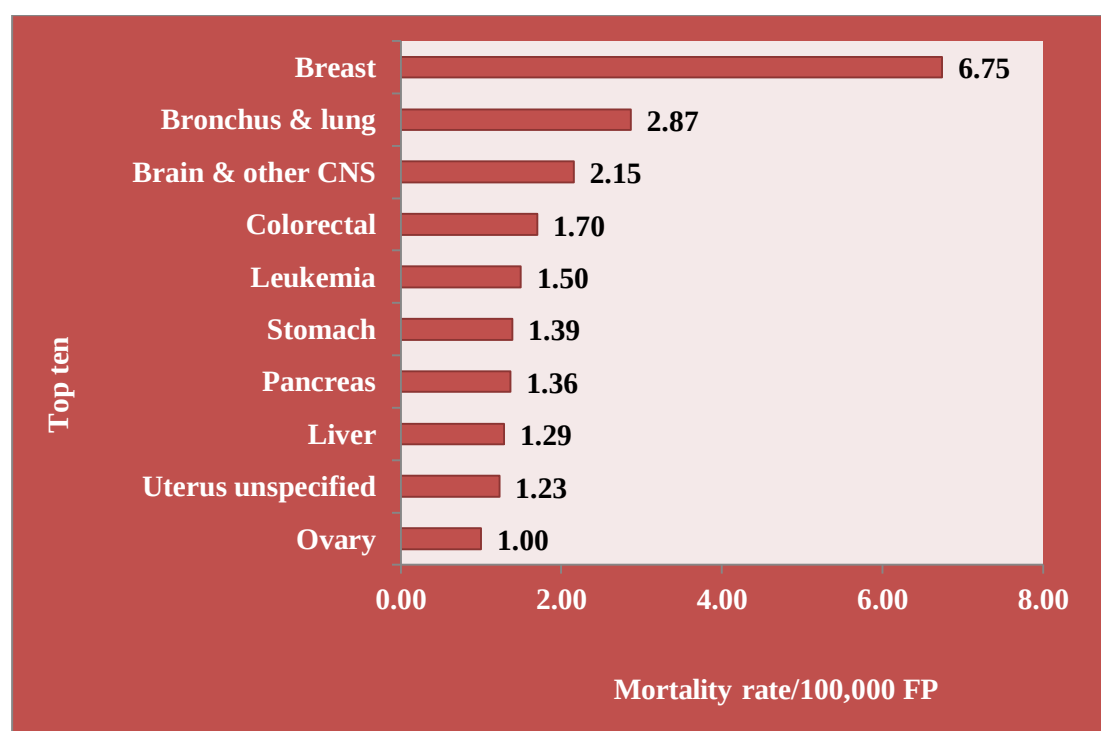
3.7.3. Number, percentage and the crude mortality rate/100,000 female population of the top ten cancers in female, Iraq, 2021:

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

Table No. (98) Number and percentage of the top ten cancers mortality in female, Iraq, 2021

Top ten	No.	%
1 Breast	1375	31.78
2 Bronchus & lung	584	13.50
3 Brain & other CNS	439	10.15
4 Colorectal	346	8.00
5 Leukemia	305	7.05
6 Stomach	283	6.54
7 Pancreas	278	6.43
8 Liver	262	6.06
9 Uterus unspecified	250	5.78
10 Ovary	204	4.72
Total top ten	4326	100.00%

Figure No.; (95) Crude mortality rate of the top ten cancers in female/ 100,000 female populations, Iraq, 2021



3.7.4. Number, percentage, age standardized mortality rate / 100,000 population and crude mortality rate/100,000 population of top ten cancers mortality by age group, Iraq, 2021:

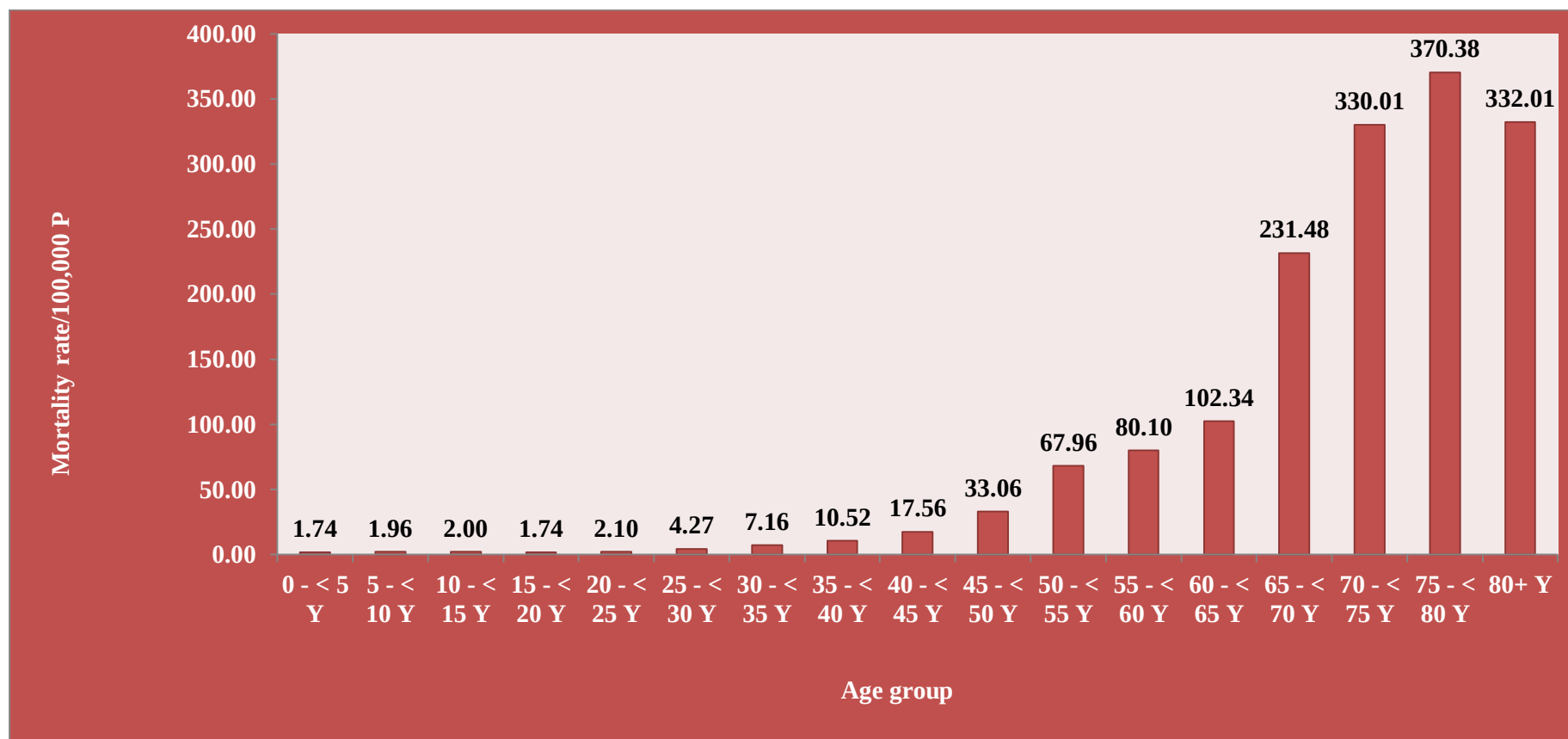
Table No.; (99), Figure No.; (96) shows that the highest number, percentage was recorded among the age group 65 - < 70 years and the lowest among the age group 15 - < 20 years. Also the highest age standardized mortality rate/100,000 population was recorded among the age group 65 - < 70 years and the lowest among the age group 15 - < 20 years.

Table No.; (99) Number, percentage and age standardized mortality rate/100,000 population of top ten cancers mortality by age group, Iraq, 2021

Top Ten	0 - <5	5 - <10	10 - <15	15 - <20	20 - <25	25 - <30	30 - <35	35 - <40	40 - <45	45 - <50	50 - <55	55 - <60	60 - <65	65 - <70	70 - <75	75 - <80	80+	Total
Bronchus & lung	0	1	4	1	11	9	23	24	38	63	111	194	201	339	310	201	226	1756
Breast	0	0	0	0	5	25	48	62	134	149	184	186	147	159	123	86	108	1416
Brain & other CNS	34	43	33	25	18	22	38	37	46	88	92	97	77	86	76	31	49	892
Colorectal	0	0	1	0	11	11	15	29	48	65	75	72	76	104	87	66	83	743
Leukemia	54	48	43	36	21	31	22	20	21	24	37	49	46	66	54	34	60	666
Pancreas	0	0	1	1	0	2	4	11	21	31	57	88	79	136	117	60	46	654
Stomach	0	0	0	0	4	15	23	29	39	56	64	69	44	61	82	53	53	592
Liver	6	4	3	4	3	8	8	14	18	25	45	71	59	96	92	56	73	585
Urinary bladder	0	0	1	0	1	1	1	5	1	14	25	27	30	65	84	81	118	454
Non-Hodgkin lymphoma	11	14	14	10	6	7	16	20	21	28	38	36	41	50	37	22	36	407
Total top ten	105	110	100	77	80	131	198	251	387	543	728	889	800	1162	1062	690	852	8165
Percentage	1.29	1.35	1.22	0.94	0.98	1.60	2.42	3.07	4.74	6.65	8.92	10.89	9.80	14.23	13.01	8.45	10.43	100.00
ASMR / 100,000 P	0.21	0.20	0.18	0.16	0.17	0.34	0.43	0.63	1.05	1.98	3.40	3.20	4.09	6.94	6.60	3.70	3.32	36.61

Figure No.; (96) shows that the highest crude mortality rate/100,000 population was recorded among the age group 75 - < 80 years and the lowest among the age group 0 - < 5 and 15 - < 20 years.

Figure No.; (96) Crude mortality rate/100,000 population of the top ten cancers by age group, 2021



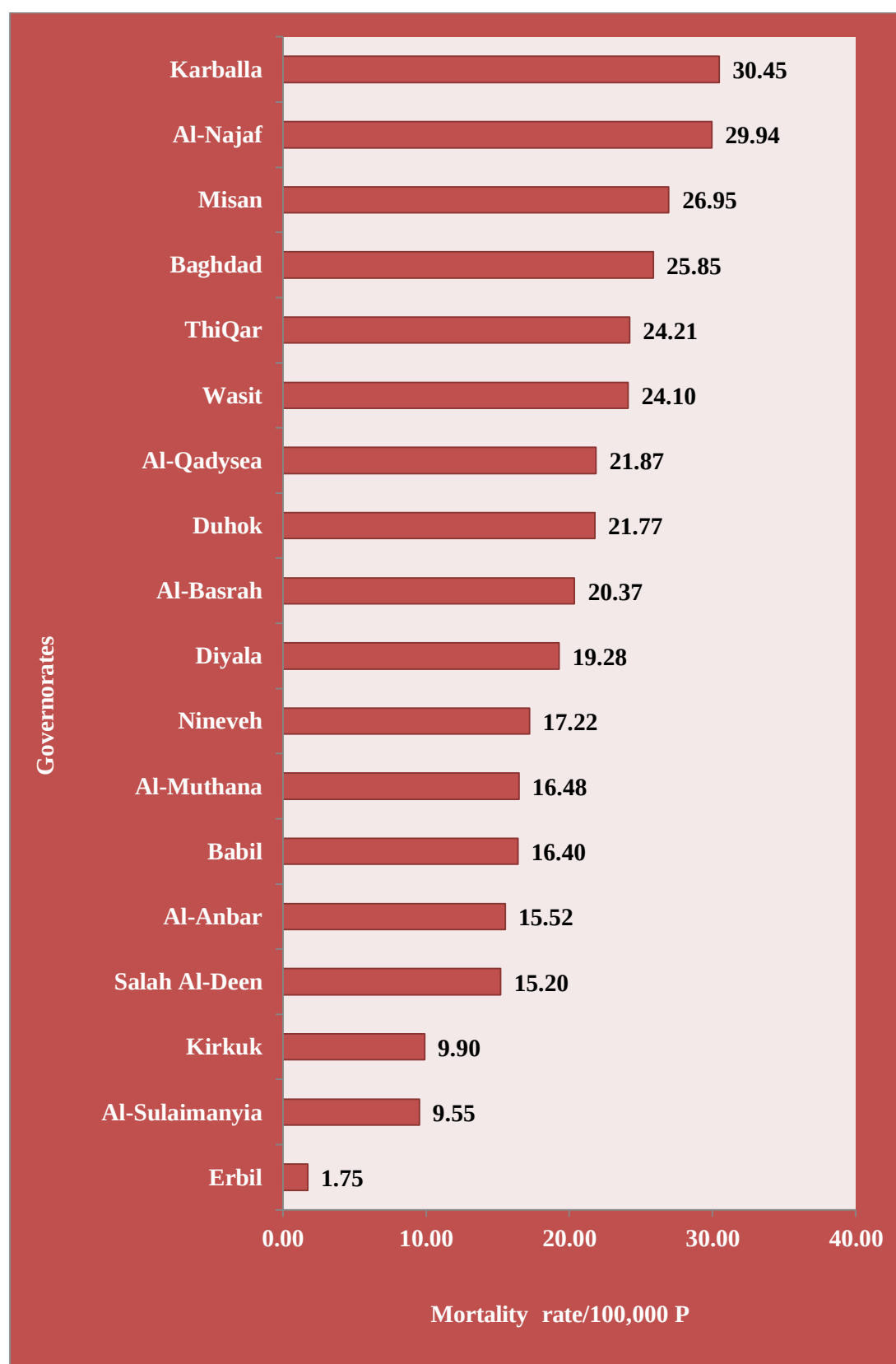
3.7.5. Number, percentage and the crude mortality rate/100,000 population of top ten cancers mortality by governorates, Iraq, 2021:

Table No.; (100), Figure No.; (97) shows that the highest number, percentage was recorded in Baghdad and the lowest in Erbil. While the highest crude mortality rate/100,000 population was recorded in Karballa and the lowest in Erbil

Table No.; (100) Number and percentage of the top ten cancers mortality by governorates, Iraq, 2021

Top Ten	Al-Anbar	Al-Basrah	Al-Muthana	Al-Najaf	Al-Qadysa	Al-Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karballa	Kirkuk	Misan	Nineveh	Salah Al-Deen	ThiQar	Wasit	Un	Total
Bronchus & lung	55	115	48	106	85	52	99	434	68	87	5	92	37	83	127	66	111	86	0	1756
Breast	43	134	16	98	42	35	51	476	72	41	1	48	38	47	106	41	63	63	1	1416
Brain & other CNS	24	59	8	47	43	24	40	255	55	38	1	30	10	29	90	37	65	36	1	892
Colorectal	39	55	4	41	24	23	27	230	37	43	2	25	13	21	77	20	44	17	1	743
Leukemia	6	61	19	46	26	20	28	141	7	13	15	49	33	30	69	18	63	22	0	666
Pancreas	31	68	15	43	1	16	40	172	25	24	1	49	11	26	60	21	37	14	0	654
Stomach	33	44	7	23	18	19	17	165	17	29	2	24	13	24	70	26	29	32	0	592
Liver	21	23	15	27	28	14	24	175	37	12	2	30	3	22	47	18	55	32	0	585
Urinary bladder	12	41	8	24	18	8	23	117	12	7	1	30	3	25	17	5	63	39	1	454
Non-Hodgkin lymphoma	33	40	5	21	20	12	17	105	11	10	5	24	10	17	31	10	18	18	0	407
Total top ten	297	640	145	476	305	223	366	2270	341	304	35	401	171	324	694	262	548	359	4	8165
Percentage	3.64	7.84	1.78	5.83	3.74	2.73	4.48	27.80	4.18	3.72	0.43	4.91	2.09	3.97	8.50	3.21	6.71	4.40	0.05	100.00

Figure No.; (97) Crude mortality rate of the top ten cancers in Iraq/100,000 populations by governorates, 2021



3.7.6 Number, percentage and the crude mortality rate/100,000 population of top ten cancer mortality by ICD-O code, site of tumor and gender, Iraq, 2021:

Table No.; (101) Number, percentage and the crude mortality rate/100,000 population of top ten cancer mortality by ICD-O code, site of tumor and gender, Iraq, 2021

ICD-O code/site of tumor	Female			Male			Total		
	No.	%	IR	No.	%	IR	No.	%	IR
C00 / Lip	0	0.00	0.00	1	0.01	0.00	1	0.01	0.00
C01 / Tongue, base	3	0.03	0.01	3	0.03	0.01	6	0.06	0.01
C02 / Tongue, other	15	0.14	0.04	19	0.17	0.05	34	0.31	0.08
C04 / Mouth - floor	2	0.02	0.00	2	0.02	0.00	4	0.04	0.01
C06 / Mouth - other	7	0.06	0.02	8	0.07	0.02	15	0.14	0.04
C07 / Parotid gland	4	0.04	0.01	8	0.07	0.02	12	0.11	0.03
C08 / Mouth glands	9	0.08	0.02	5	0.05	0.01	14	0.13	0.03
C09 / Tonsil	4	0.04	0.01	8	0.07	0.02	12	0.11	0.03
C10 / Oropharynx	3	0.03	0.01	9	0.08	0.02	12	0.11	0.03
C11 / Nasopharynx	12	0.11	0.03	22	0.20	0.05	34	0.31	0.08
C13 / Hypopharynx	2	0.02	0.00	7	0.06	0.02	9	0.08	0.02
C14 / Pharynx	7	0.06	0.02	7	0.06	0.02	14	0.13	0.03
C15 / Oesophagus	47	0.43	0.11	55	0.50	0.13	102	0.94	0.25
C16 / Stomach	283	2.59	0.69	309	2.83	0.75	592	5.43	1.44
C17 / Small intestine	54	0.50	0.13	41	0.38	0.10	95	0.87	0.23
C18 / Colon	288	2.64	0.70	314	2.88	0.76	602	5.52	1.46
C19 / Recto sigmoid Junction	2	0.02	0.00	2	0.02	0.00	4	0.04	0.01
C20 / Rectum	56	0.51	0.14	81	0.74	0.20	137	1.26	0.33
C21 / Anus & anal canal	2	0.02	0.00	3	0.03	0.01	5	0.05	0.01
C22 / Liver & bile ducts	262	2.40	0.64	323	2.96	0.78	585	5.36	1.42
C23 / Gallbladder	60	0.55	0.15	42	0.39	0.10	102	0.94	0.25
C24 / Biliary tract , other	27	0.25	0.07	42	0.39	0.10	69	0.63	0.17
C25 / Pancreas	278	2.55	0.67	376	3.45	0.91	654	6.00	1.59
C26 / Other digestive organs	5	0.05	0.01	10	0.09	0.02	15	0.14	0.04
C30 / Nasal cavity	3	0.03	0.01	2	0.02	0.00	5	0.05	0.01
C31 / Accessory sinus	1	0.01	0.00	4	0.04	0.01	5	0.05	0.01
C32 / Larynx	38	0.35	0.09	122	1.12	0.30	160	1.47	0.39
C33 / Trachea	3	0.03	0.01	6	0.06	0.01	9	0.08	0.02
C34 / Bronchus & lung	584	5.35	1.42	1172	10.74	2.85	1756	16.10	4.26
C37 / Thymus	5	0.05	0.01	3	0.03	0.01	8	0.07	0.02
C38 / Heart, Mediastinum, pleura	4	0.04	0.01	8	0.07	0.02	12	0.11	0.03
C39 / Other respiratory & thoracic	2	0.02	0.00	2	0.02	0.00	4	0.04	0.01

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C40 / Bone & cartilage, limbs		37	0.34	0.09	50	0.46	0.12	87	0.80	0.21
C41 / Bones & cartilage, other		57	0.52	0.14	73	0.67	0.18	130	1.19	0.32
C42 / Reticulo Endothelial & Hematopoietic System	Chronic Myelo proliferative disorders	9	0.08	0.02	13	0.12	0.03	22	0.20	0.05
	Leukemia	305	2.80	0.74	361	3.31	0.88	666	6.11	1.62
	Mast cell tumor	1	0.01	0.00	0	0.00	0.00	1	0.01	0.00
	Myelo dysplastic syndromes	4	0.04	0.01	4	0.04	0.01	8	0.07	0.02
	Plasma cell tumor	24	0.22	0.06	31	0.28	0.08	55	0.50	0.13
C44 / Skin, other		41	0.38	0.10	52	0.48	0.13	93	0.85	0.23
C47 /Nerves system		3	0.03	0.01	5	0.05	0.01	8	0.07	0.02
C48 / Peritoneum		0	0.00	0.00	4	0.04	0.01	4	0.04	0.01
C49 / Soft tissues		25	0.23	0.06	40	0.37	0.10	65	0.60	0.16
C50 / Breast		1375	12.60	3.34	41	0.38	0.10	1416	12.98	3.44
C51 / Vulva		1	0.01	0.00	0	0.00	0.00	1	0.01	0.00
C52 / Vagina		4	0.04	0.02	0	0.00	0.00	4	0.04	0.02
C53 / Cervix uteri		39	0.36	0.19	0	0.00	0.00	39	0.36	0.19
C54 / Corpus uteri		37	0.34	0.18	0	0.00	0.00	37	0.34	0.18
C55 / Uterus unspecified		250	2.29	1.23	0	0.00	0.00	250	2.29	1.23
C56 / Ovary		204	1.87	1.00	0	0.00	0.00	204	1.87	1.00
C57 / Female genital - other		2	0.02	0.01	0	0.00	0.00	2	0.02	0.01
C60 / Penis		0	0.00	0.00	2	0.02	0.01	2	0.02	0.01
C61 / Prostate		0	0.00	0.00	357	3.27	1.72	357	3.27	1.72
C62 / Testis		0	0.00	0.00	17	0.16	0.08	17	0.16	0.08
C64 / Kidney		72	0.66	0.17	144	1.32	0.35	216	1.98	0.52
C65 / Pelvis		1	0.01	0.00	3	0.03	0.01	4	0.04	0.01
C66 / Ureter		2	0.02	0.00	2	0.02	0.00	4	0.04	0.01
C67 / Urinary bladder		123	1.13	0.30	331	3.03	0.80	454	4.16	1.10
C68 / Urinary organs, other		2	0.02	0.00	3	0.03	0.01	5	0.05	0.01
C69 / Eye & Adnexa		2	0.02	0.00	6	0.06	0.01	8	0.07	0.02
C70 / Meninges		2	0.02	0.00	2	0.02	0.00	4	0.04	0.01
C71 / Brain		422	3.87	1.02	435	3.99	1.06	857	7.86	2.08
C72 / Nervous system, other		12	0.11	0.03	12	0.11	0.03	24	0.22	0.06
C73 / Thyroid gland		69	0.63	0.17	40	0.37	0.10	109	1.00	0.26
C74 / Adrenal gland		8	0.07	0.02	17	0.16	0.04	25	0.23	0.06
C75 / Endocrine gland, other		3	0.03	0.01	5	0.05	0.01	8	0.07	0.02
C76 / Unspecified site		19	0.17	0.05	17	0.16	0.04	36	0.33	0.09
C80 / Unknown primary site		86	0.79	0.21	65	0.60	0.16	151	1.38	0.37

Code + Tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C77 / Lymph node	Hodgkin lymphoma	19	0.17	0.05	22	0.20	0.05	41	0.38	0.10
	Non-Hodgkin lymphoma	175	1.60	0.42	232	2.13	0.56	407	3.73	0.99
Total		5507	50.48	13.37	5402	49.52	13.11	10909	100.00	26.48

Note:

- * From C51 to C57 the incidence rate was calculated from the female population.
- * From C60 to C62 the incidence rate was calculated from the male population.

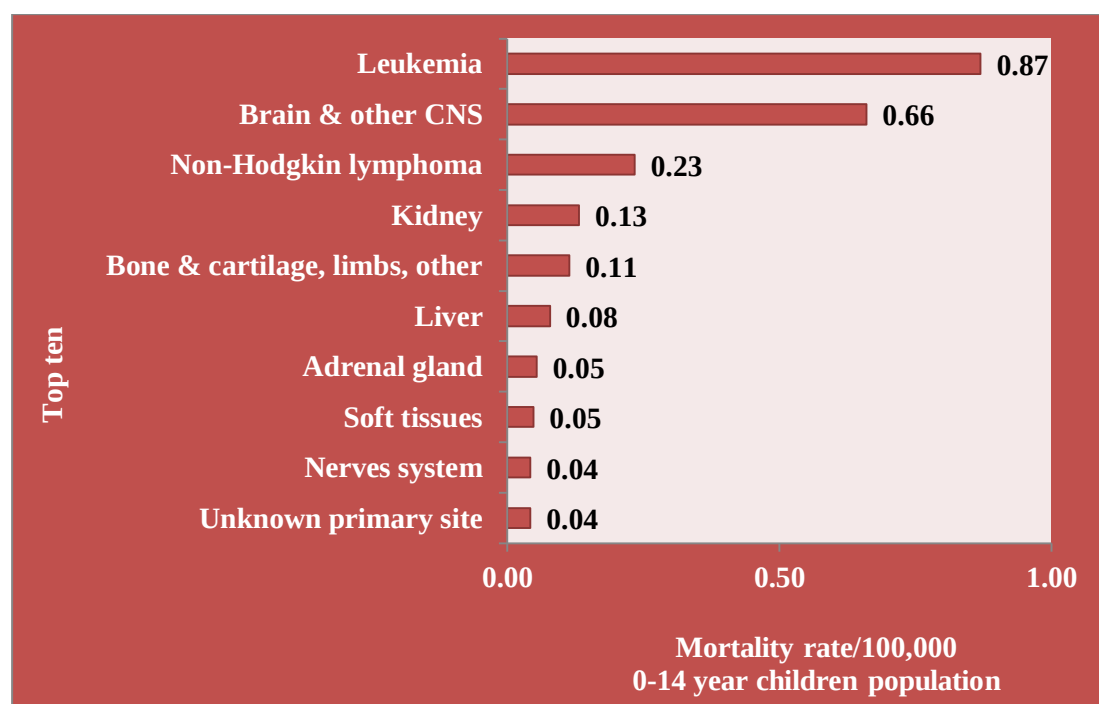
3.7.7. Number, percentage and the crude mortality rate/100,000 children 0-14 year population of the top ten cancers mortality in children 0-14 year, Iraq, 2021:

Table No.; (102), Figure No.; (98) shows that the highest number, percentage and crude mortality rate was Leukemia, while the lowest was unknown primary site cancer.

Table No.; (102) Number and percentage of the top ten cancers mortality in children 0-14 year, Iraq, 2021

Top ten	No.	%
1 Leukemia	145	38.26
2 Brain & other CNS	110	29.02
3 Non-Hodgkin lymphoma	39	10.29
4 Kidney	22	5.80
5 Bone & cartilage, limbs, other	19	5.01
6 Liver	13	3.43
7 Adrenal gland	9	2.37
8 Soft tissues	8	2.11
9 Nerves system	7	1.85
10 Unknown primary site	7	1.85
Total top ten	379	100.00%

Figure No.; (98) Crude mortality rate of the top ten cancers mortality in children 0-14 year /100, 000 children 0-14 year populations, Iraq, 2021



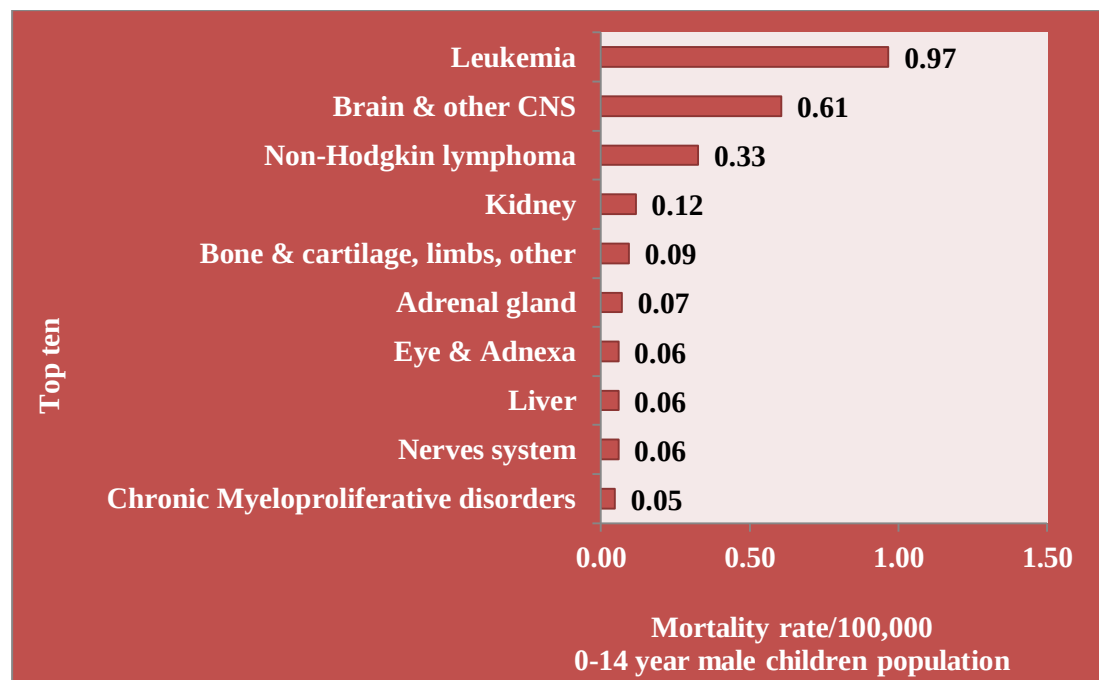
3.7.8. Number, percentage and the crude mortality rate/100,000 male children 0-14 year population of the top ten cancers mortality in male children 0-14 year, Iraq, 2021:

Table No.; (103), Figure No.; (99) shows that the highest number, percentage and mortality rate was Leukemia, while the lowest was Chronic Myeloproliferative disorders.

Table No.; (103) Number and percentage of the top ten cancers mortality in male children 0-14 year, Iraq, 2021

Top ten	No.	%
1 Leukemia	83	40.29
2 Brain & other CNS	52	25.24
3 Non-Hodgkin lymphoma	28	13.59
4 Kidney	10	4.85
5 Bone & cartilage, limbs, other	8	3.88
6 Adrenal gland	6	2.91
7 Eye & Adnexa	5	2.43
8 Liver	5	2.43
9 Nerves system	5	2.43
10 Chronic Myeloproliferative disorders	4	1.94
Total top ten	206	100.00%

Figure No.; (99) Crude mortality rate of the top ten cancers mortality in male children 0-14 year /100, 000 male children 0-14 year populations, Iraq, 2021



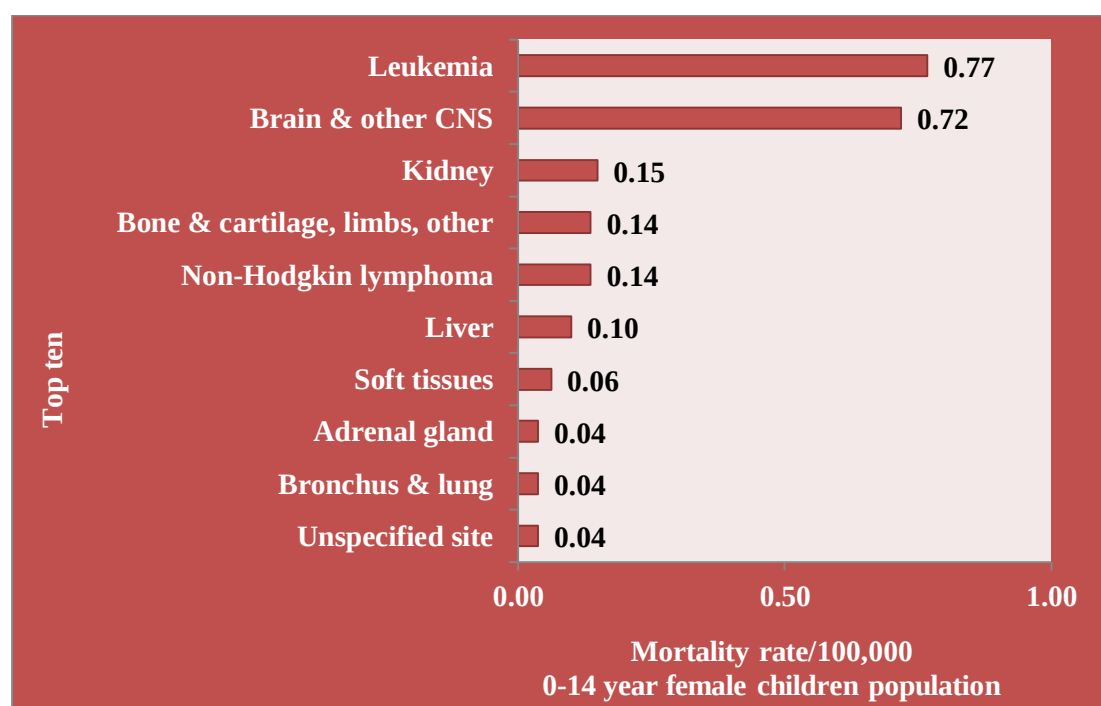
3.7.9. Number, percentage and the crude mortality rate/100,000 female children 0-14 year population of the top ten cancers mortality in female children 0-14 year, Iraq, 2021:

Table No.; (104), Figure No.; (100) shows that the highest number, percentage and mortality rate was Leukemia, while the lowest was unspecified site.

Table No.; (104) Number and percentage of the top ten cancers mortality in female children 0-14 year, Iraq, 2021

Top ten	No.	%
1 Leukemia	62	35.23
2 Brain & other CNS	58	32.95
3 Kidney	12	6.82
4 Bone & cartilage, limbs, other	11	6.25
5 Non-Hodgkin lymphoma	11	6.25
6 Liver	8	4.55
7 Soft tissues	5	2.84
8 Adrenal gland	3	1.70
9 Bronchus & lung	3	1.70
10 Unspecified site	3	1.70
Total top ten	176	100.00%

Figure No.; (100) Crude mortality rate of the top ten cancers mortality in female children 0-14 year /100, 000 female children 0-14 year populations, Iraq, 2021



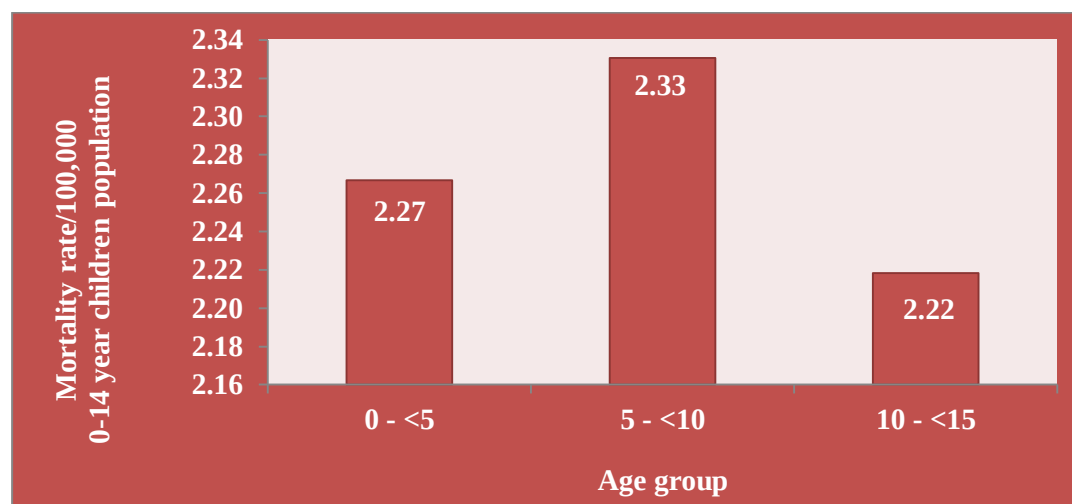
3.7.10. Number, percentage and the crude mortality rate/100,000 children 0-14year population of the top ten cancers mortality in children 0-14year by age group, Iraq, 2021

Table No.; (105), Figure No.; (101) shows that the highest number, percentage was recorded among the age group 0 - < 5 years and the lowest among the age group 10 - < 15 years. While the highest crude mortality rate/100,000 children 0-14 year population was recorded among the age group 5 - < 10 years and the lowest among the age group 10 - < 15 years.

Table No.; (105) Number and percentage of the top ten cancers mortality in children 0-14 year by age group, Iraq, 2021

Top Ten	0 - <5	5 - <10	10 - <15	Total
1 Leukemia	54	48	43	145
2 Brain & other CNS	34	43	33	110
3 Non-Hodgkin lymphoma	11	14	14	39
4 Kidney	12	6	4	22
5 Bone & cartilage, limbs, other	3	4	12	19
6 Liver	6	4	3	13
7 Adrenal gland	7	2	0	9
8 Soft tissues	4	3	1	8
9 Nerves system	3	4	0	7
10 Unknown primary site	3	3	1	7
Total top ten	137	131	111	379
Percentage	36.52%	34.13%	29.36%	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, 2021



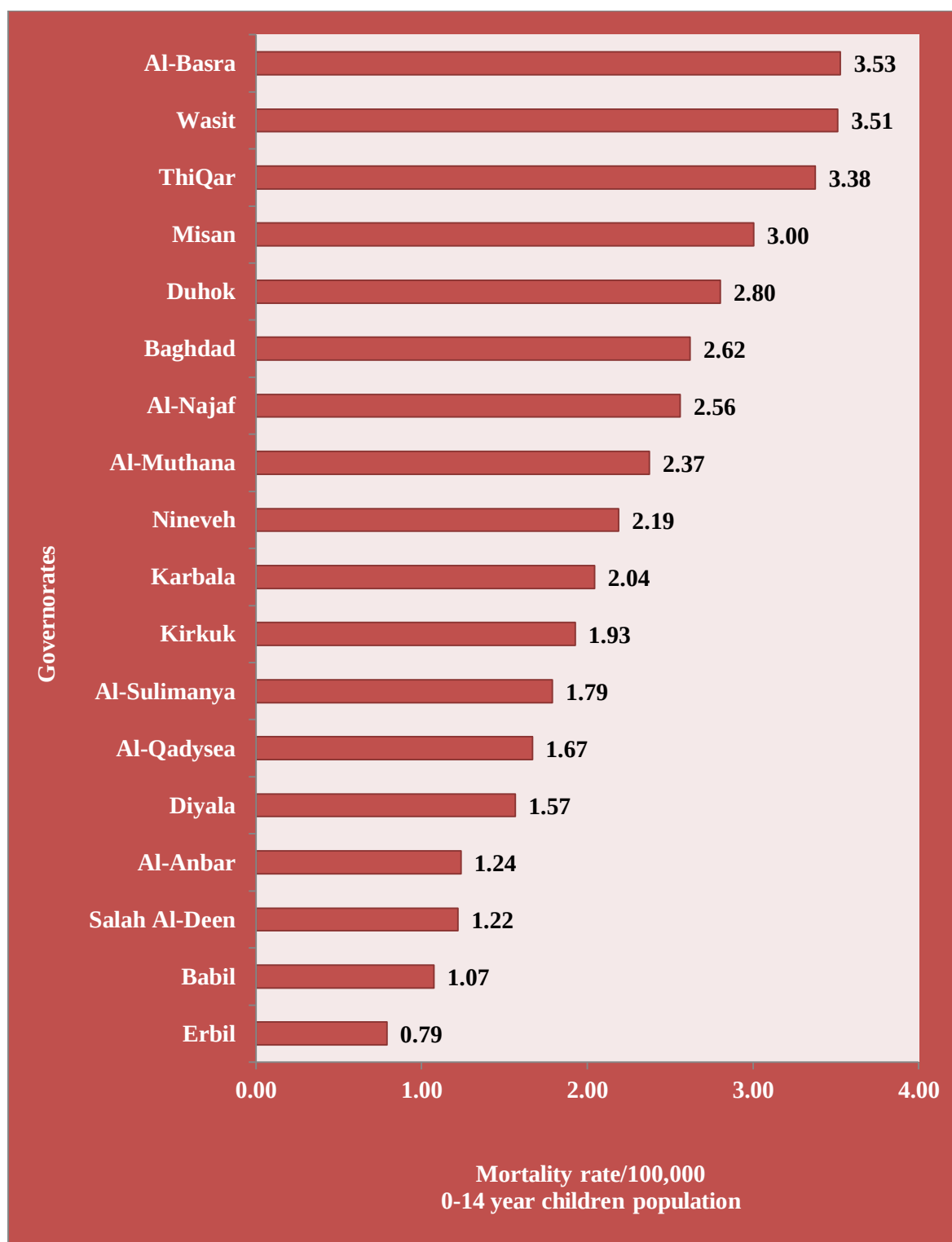
3.7.11. Number, percentage and the crude mortality rate/100,000 children 0-14year population of the top ten cancers mortality in children 0-14year by governorates, Iraq, 2021:

Table No.; (106), Figure No.; (102) shows that the highest number and percentage was recorded in Baghdad and the lowest in Erbil. While the highest crude mortality rate/100,000 children 0-14year population was recorded in Al-Basra and the lowest in Erbil

Table No.; (106) D Number and percentage of the top ten cancers mortality in children 0-14year by governorates, Iraq, 2021

Top Ten	Al-Anbar	Al-Basrah	Al-Muthana	Al-Najaf	Al-Qadysea	Al-Sulaimanyia	Babil	Baghdad	Diyala	Duhok	Erbil	Karbala	Kirkuk	Misan	Nineveh	Salah Al-Deen	ThiQar	Wasit	Total
Leukemia	2	21	6	6	2	4	3	23	4	8	3	4	6	8	20	3	15	7	145
Brain & other CNS	4	9	2	6	3	5	5	35	5	6	1	4	3	3	8	3	5	3	110
Non-Hodgkin lymphoma	1	2	0	2	3	0	1	9	1	1	1	2	2	3	4	2	1	4	39
Kidney	1	1	0	2	0	2	1	4	0	1	0	1	0	0	1	0	2	6	22
Bone & cartilage, limbs, other	1	6	0	1	0	0	0	4	0	0	1	0	0	1	1	0	3	1	19
Liver	0	1	1	0	1	0	0	3	0	0	0	0	0	0	1	1	4	1	13
Adrenal gland	0	4	0	0	0	0	0	2	0	0	0	0	0	0	0	0	3	0	9
Soft tissues	0	2	0	0	1	0	0	1	0	0	0	0	1	1	2	0	0	0	8
Nerves system	1	1	0	0	0	0	0	3	1	0	0	0	1	0	0	0	0	0	7
Unknown primary site	0	1	0	0	0	3	0	1	0	0	0	0	0	0	2	0	0	0	7
Total top ten	10	48	9	17	10	14	10	85	11	16	6	11	13	16	39	9	33	22	379
Percentage	2.64	12.66	2.37	4.49	2.64	3.69	2.64	22.43	2.90	4.22	1.58	2.90	3.43	4.22	10.29	2.37	8.71	5.80	100.00

Figure No.; (102) Crude mortality rate of the top ten cancers mortality in children 0-14 year /100,000 children 0-14 year populations by governorates, Iraq, 2021



3.7.12. Number, percentage and the crude mortality rate/100,000 children 0-14year population of top ten cancer mortality by ICD-O code, site of tumor and gender, Iraq, 2021:

Table No.; (107) Number, percentage and the crude mortality rate/100,000 children 0-14year population of top ten cancer mortality by ICD-O code, site of tumor and gender, Iraq, 2021

ICD-O code/site of tumor		Female			Male			Total		
		No.	%	IR	No.	%	IR	No.	%	IR
C08 / Mouth glands		1	0.24	0.01	0	0.00	0.00	1	0.24	0.01
C09 / Tonsil		0	0.00	0.00	1	0.24	0.01	1	0.24	0.01
C11 / Nasopharynx		2	0.48	0.01	0	0.00	0.00	2	0.48	0.01
C18 / Colon		0	0.00	0.00	1	0.24	0.01	1	0.24	0.01
C22 / Liver & bile ducts		8	1.91	0.05	5	1.19	0.03	13	3.10	0.08
C25 / Pancreas		0	0.00	0.00	1	0.24	0.01	1	0.24	0.01
C32 / Larynx		0	0.00	0.00	1	0.24	0.01	1	0.24	0.01
C34 / Bronchus & lung		3	0.72	0.02	2	0.48	0.01	5	1.19	0.03
C40 / Bone & cartilage, limbs		8	1.91	0.05	5	1.19	0.03	13	3.10	0.08
C41 / Bones & cartilage, other		3	0.72	0.02	3	0.72	0.02	6	1.43	0.04
C42 / Reticulo Endothelial & Hemato poietic system	Chronic Myeloproliferative disorders	2	0.48	0.01	4	0.95	0.02	6	1.43	0.04
	Leukemia	62	14.80	0.37	83	19.81	0.50	145	34.61	0.87
	Myelo dysplastic syndromes	1	0.24	0.01	0	0.00	0.00	1	0.24	0.01
C44 / Skin, other		0	0.00	0.00	4	0.95	0.02	4	0.95	0.02
C47 /Nerves system		2	0.48	0.01	5	1.19	0.03	7	1.67	0.04
C49 / Soft tissues		5	1.19	0.03	3	0.72	0.02	8	1.91	0.05
C62 / Testis		0	0.00	0.00	1	0.24	0.01	1	0.24	0.01
C64 / Kidney		12	2.86	0.07	10	2.39	0.06	22	5.25	0.13
C65 / Pelvis		1	0.24	0.01	0	0.00	0.00	1	0.24	0.01
C67 / Urinary bladder		0	0.00	0.00	1	0.24	0.01	1	0.24	0.01
C69 / Eye & Adnexa		1	0.24	0.01	5	1.19	0.03	6	1.43	0.04
C71 / Brain		54	12.89	0.32	47	11.22	0.28	101	24.11	0.61
C72 / Nervous system, other		4	0.95	0.02	4	0.95	0.02	8	1.91	0.05
C73 / Thyroid gland		0	0.00	0.00	1	0.24	0.01	1	0.24	0.01
C74 / Adrenal gland		3	0.72	0.02	6	1.43	0.04	9	2.15	0.05
C75 / Endocrine gland, other		0	0.00	0.00	1	0.24	0.01	1	0.24	0.01
C76 / Unspecified site		3	0.72	0.02	1	0.24	0.01	4	0.95	0.02
C80 / Unknown primary site		3	0.72	0.02	4	0.95	0.02	7	1.67	0.04
C77 / Lymph node	Hodgkin lymphoma		0	0.00	0.00	3	0.72	0.02	3	0.72
	Non-Hodgkin lymphoma	11	2.63	0.07	28	6.68	0.17	39	9.31	0.23
Total		189	45.11	1.13	230	54.89	1.38	419	100.00	2.51

Note: C62 the incidence rate was calculated from the male population.

Result

Cancer among Non-Iraqis in Iraq 2021

3.8. Cancer among Non-Iraqis in Iraq, 2021:

3.8.1. Number and percentage of cancer among non-Iraqis by ICD-O code, site of tumor and gender, Iraq, 2021:

Table No.; (108) Number and percentage of cancer among non-Iraqis by ICD-O code, site of tumor and gender, Iraq, 2021

ICD-O code/site of tumor		Female		Male		Total	
		No.	%	No.	%	No.	%
C15 / Oesophagus		1	0.78	2	1.55	3	2.33
C16 / Stomach		0	0.00	2	1.55	2	1.55
C18 / Colon		3	2.33	3	2.33	6	4.65
C20 / Rectum		1	0.78	2	1.55	3	2.33
C22 / Liver & bile ducts		1	0.78	0	0.00	1	0.78
C24 / Biliary tract , other		1	0.78	0	0.00	1	0.78
C25 / Pancreas		2	1.55	1	0.78	3	2.33
C32 / Larynx		0	0.00	3	2.33	3	2.33
C34 / Bronchus & lung		5	3.88	8	6.20	13	10.08
C42 / Reticulo Endothelial & Hemato poietic system	Chronic Myeloproliferative disorders	0	0.00	2	1.55	2	1.55
	Leukemia	6	4.65	9	6.98	15	11.63
	Plasma cell tumor	0	0.00	2	1.55	2	1.55
C44 / Skin, other		1	0.78	1	0.78	2	1.55
C48 / Peritoneum		0	0.00	1	0.78	1	0.78
C49 / Soft tissues		0	0.00	1	0.78	1	0.78
C50 / Breast		37	28.68	2	1.55	39	30.23
C53 / Cervix uteri		1	0.78	0	0.00	1	0.78
C54 / Corpus uteri		4	3.10	0	0.00	4	3.10
C56 / Ovary		1	0.78	0	0.00	1	0.78
C58 / Placenta		1	0.78	0	0.00	1	0.78
C61 / Prostate		0	0.00	1	0.78	1	0.78
C62 / Testis		0	0.00	1	0.78	1	0.78
C64 / Kidney		0	0.00	3	2.33	3	2.33
C67 / Urinary bladder		0	0.00	3	2.33	3	2.33
C71 / Brain		0	0.00	3	2.33	3	2.33
C73 / Thyroid gland		4	3.10	0	0.00	4	3.10
C74 / Adrenal gland		0	0.00	1	0.78	1	0.78
C77 / Lymph node	Hodgkin lymphomas	1	0.78	2	1.55	3	2.33
	Non-Hodgkin lymphoma	1	0.78	2	1.55	3	2.33
C80 / Unknown primary site		2	1.55	1	0.78	3	2.33
Total		73	56.59%	56	43.41%	129	100.00

3.8.2. Number and percentage of cancer among non-Iraqis by age group, gender and ICD-O code, site of tumor Iraq, 2021:

Table No.; (109), shows that the most affected age group in male was 60 - <65 years, while in female the most affected age group was 50 - <55 year.

Table No.; (109) Number and percentage of cancer among Non-Iraqis by age group and gender, Iraq, 2021

Age group	Female		Male		Total	
	No.	%	No.	%	No.	%
0 - <5	1	0.78	3	2.33	4	3.10
5 - <10	2	1.55	2	1.55	4	3.10
10 - <15	1	0.78	1	0.78	2	1.55
15 - <20	3	2.33	1	0.78	4	3.10
20 - <25	0	0.00	2	1.55	2	1.55
25 - <30	2	1.55	3	2.33	5	3.88
30 - <35	4	3.10	5	3.88	9	6.98
35 - <40	4	3.10	2	1.55	6	4.65
40 - <45	10	7.75	4	3.10	14	10.85
45 - <50	5	3.88	3	2.33	8	6.20
50 - <55	12	9.30	5	3.88	17	13.18
55 - <60	7	5.43	4	3.10	11	8.53
60 - <65	10	7.75	8	6.20	18	13.95
65 - <70	7	5.43	7	5.43	14	10.85
70 - <75	1	0.78	3	2.33	4	3.10
75 - <80	2	1.55	0	0.00	2	1.55
80 +	2	1.55	3	2.33	5	3.88
Total	73	56.59%	56	43.41%	129	100.00%

Table No.; (110), shows that the most affected age group was 60 - <65 years, while the lowest among the age group was 10 - < 15 year.

Table No.; (110) Number and percentage of cancer among non-Iraqi by ICD-O code, site of tumor and age group, Iraq, 2021

ICD-O code/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+	Total
C15 / Oesophagus		0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	3
C16 / Stomach		0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2
C18 / Colon		0	0	0	0	0	1	0	0	1	0	2	0	2	0	0	0	0	6
C20 / Rectum		0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	3
C22 / Liver & bile ducts		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
C24 / Biliary tract, other		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
C25 / Pancreas		0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	3
C32 / Larynx		0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	3
C34 / Bronchus & lung		0	0	0	0	0	0	0	0	0	2	0	3	3	2	1	0	2	13
C42 / Reticulo Endothelial & Hemato poietic system	Chronic Myelo proliferative disorders	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
	Leukemia	2	4	1	2	0	0	0	0	0	0	2	1	1	2	0	0	0	15
	Plasma cell tumor	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	2
C44 / Skin, Other		0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2
C48 / Peritoneum		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
C49 / Soft tissues		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
C50 / Breast		0	0	0	0	0	0	3	5	8	2	8	2	5	4	1	1	0	39
C53 / Cervix uteri		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
C54 / Corpus uteri		0	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0	4
C56 / Ovary		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
C58 / Placenta		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1

ICD-O code/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+	Total
C61 / Prostate	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
C62 / Testis	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
C64 / Kidney	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	3
C67 / Urinary bladder	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	3
C71 / Brain	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	3
C73 / Thyroid gland	0	0	0	0	0	1	0	0	1	0	0	0	0	2	0	0	0	4
C74 / Adrenal gland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
C77 / Lymph node																		
Hodgkin Lymphomas	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3
Non-Hodgkin Lymphoma	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	3
C80 / Unknown Primary Site	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	3
Total	4	4	2	4	2	5	9	6	14	8	17	11	18	14	4	2	5	129
Percentage	3.10	3.10	1.55	3.10	1.55	3.88	6.98	4.65	10.85	6.20	13.18	8.53	13.95	10.85	3.10	1.55	3.88	100.00

3.8.3. Number and percentage of cancer among non-Iraqis by governorates and gender, Iraq, 2021:

Table No.; (111) shows that the highest number and percentage of cases in male and female was reported in Erbil governorate.

Table No.; (111) Number and percentage of cancer among Non-Iraqi by governorates and gender, Iraq, 2021

Governorates	Female		Male		Total	
	No.	%	No.	%	No.	%
Erbil	34	26.36	28	21.71	62	48.06
Duhok	12	9.30	12	9.30	24	18.60
Al-Sulaimanyia	11	8.53	12	9.30	23	17.83
Baghdad	6	4.65	2	1.55	8	6.20
Nineveh	3	2.33	2	1.55	5	3.88
Al-Anbar	1	0.78	0	0.00	1	0.78
Al-Muthana	1	0.78	0	0.00	1	0.78
Al-Najaf	1	0.78	0	0.00	1	0.78
Al-Qadysea	1	0.78	0	0.00	1	0.78
Karbala	1	0.78	0	0.00	1	0.78
ThiQar	1	0.78	0	0.00	1	0.78
Wasit	1	0.78	0	0.00	1	0.78
Total	73	56.59	56	43.41	129	100.00

3.8.4. Number and percentage of cancer mortality among non-Iraqis by ICD-O code, site of tumor, age group, gender, and governorates, Iraq, 2021:

Table No.; (112) shows that the highest number, percentage of cancer mortality reported among females.

Table No.; (112) Number and percentage of cancer mortality among Non-Iraqi by ICD-O code, site of tumor and gender, Iraq, 2021

ICD-O code/site of tumor	Female		Male		Total	
	No.	%	No.	%	No.	%
C11 / Nasopharynx	0	0.00	1	11.11	1	11.11
C34 / Bronchus & lung	1	11.11	0	0.00	1	11.11
C42 / Leukemia	0	0.00	1	11.11	1	11.11
C50 / Breast	2	22.22	0	0.00	2	22.22
C67 / Urinary bladder	1	11.11	0	0.00	1	11.11
C71 / Brain	0	0.00	2	22.22	2	22.22
C80 / Unknown primary site	1	11.11	0	0.00	1	11.11
Total	5	55.56	4	44.44	9	100.00

Table No.; (113) shows that the highest number, percentage of cancer mortality reported among the age group 55 - < 60 years and 65 - < 70 years.

Table No.; (113) Number and percentage of cancer mortality among Non-Iraqi by ICD-O code, site of tumor and age group, Iraq, 2021

ICD-O code/site of tumor	30 - <35	45 - <50	55 - <60	60 - <65	65 - <70	75 - <80	80 - <85	Total
C11 / Nasopharynx	0	0	0	0	0	0	1	1
C34 / Bronchus & lung	0	0	1	0	0	0	0	1
C42 / Leukemia	0	0	1	0	0	0	0	1
C50 / Breast	0	1	0	0	1	0	0	2
C67 / Urinary bladder	0	0	0	0	0	1	0	1
C71 / Brain	1	0	0	1	0	0	0	2
C80 / Unknown primary site	0	0	0	0	1	0	0	1
Total	1	1	2	1	2	1	1	9
Percentage	11.11	11.11	22.22	11.11	22.22	11.11	11.11	100.00

Table No.; (114) shows that the highest number, percentage of cancer mortality was reported in Duhok governorate.

**Table No.; (114) Number and percentage of cancer mortality among Non-Iraqi
by ICD-O code, site of tumor and governorates, Iraq, 2021**

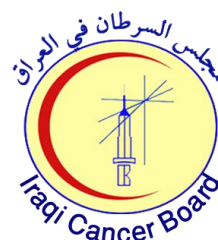
ICD-O code/site of tumor	Duhok	Erbil	Nineveh	Total
C11 / Nasopharynx	1	0	0	1
C34 / Bronchus & lung	1	0	0	1
C42 / Leukemia	0	1	0	1
C50 / Breast	2	0	0	2
C67 / Urinary bladder	0	0	1	1
C71 / Brain	2	0	0	2
C80 / Unknown primary site	0	1	0	1
Total	6	2	1	9
Percentage	66.67	22.22	11.11	100.00

Annex

Annex:



وزارة الصحة والبيئة
Ministry of Health and Environment
استمارة التسجيل السرطاني في العراق
Iraqi Cancer Registry Form
CanReg5



رقم المريض										Patient record																			
معلومات المريض الشخصية (Patient)																													
أسم المريض					أسم الأب					أسم الجد																			
أسم الأم الثلاثي																													
الجنس					(1) ذكر					(2) أنثى					(9) غير معروف														
تاريخ التولد					اليوم/					الشهر/					السنة/														
الجنسية					(1) عراقي					(2) عربي					(3) أجنبي					(9) غير معروف									
العنوان					المحافظة/					القضاء/					الناحية/					غير معروف									
المهنة					(1) ربة بيت					(2) عامل					(3) مزارع					(4) موظف					(5) كاسب				
					(6) طفل					(7) متقاعد					(8) أخرى					(9) غير معروف									
رقم هاتف المريض					رقم هاتف المرافق																								
مصدر المعلومات (المستشفيات والمختبرات) (Source)																													
تاريخ دخول المستشفى					اليوم/					الشهر/					السنة/														
أسم المستشفى																													
رقم الطبلة																													
أسم المختبر																													
رقم الشريحة																													
متابعة المريض (Follow up)																													
تاريخ آخر تواصل مع المريض					اليوم/					الشهر/					السنة/														
حالة المريض					(1) على قيد الحياة					(2) متوفي																			
تاريخ الوفاة					اليوم/					الشهر/					السنة/														
سبب الوفاة					(1) السرطان					(2) أسباب أخرى					(9) غير معروف														
ملاحظة: يتم رفع نسخة من هوية الأحوال المدنية ونسخة من الفحص التشخيصي للمرض مع الاستمارة.																													
أسم وتوقيع الإحصائي																													

المعلومات المرضية
(Tumor)

Diagnosis date	Day/	Month/	Year/
----------------	------	--------	-------

Basis of diagnosis	(0) Death certificate only	(1) Clinical only	(2) Clinical investigation	(3) Surgery/ Autopsy
	(4) Laboratory test	(5) Cytology/ Hematological	(6) Histology of metastases	(7) Histology of primary
	(8) Autopsy with histology	(9) Unknown		

Topography		Morphology	
------------	--	------------	--

Behavior	(0) Benign	(1) Uncertain	(2) In situ	(3) Malignant
----------	------------	---------------	-------------	---------------

Grade	(1) Grad I	(2) Grad II	(3) Grad III	(4) Grad IV
	(5) T-Cell	(6) B-Cell	(7) Null Cell	(8) Killer Cell
	(9) Unknown			

Extent	(0) In situ	(1) Localized	(2) Regional by direct extension	(3) Regional lymph nodes
	(4) Regional direct extension and lymph nodes	(7) Distant metastasis	(8) Not applicable	(9) Unknown

Laterality	(1) Right	(2) Left	(3) Bilateral	(4) Not applicable	(9) Unknown
------------	-----------	----------	---------------	--------------------	-------------

T	(0) In situ	(1) T 1	(2) T 2	(3) T 3	(4) T 4	(X) Not assessed
---	-------------	---------	---------	---------	---------	------------------

N	(0) N 0	(1) N 1	(2) N 2	(3) N 3	(X) Not assessed
---	---------	---------	---------	---------	------------------

M	(0) M 0	(1) M 1	(X) Not assessed
---	---------	---------	------------------

Surgery	(1) Yes	(2) No	(3) Suggested	(9) Unknown
---------	---------	--------	---------------	-------------

Chemotherapy	(1) Yes	(2) No	(3) Suggested	(9) Unknown
--------------	---------	--------	---------------	-------------

Radiotherapy	(1) Yes	(2) No	(3) Suggested	(9) Unknown
--------------	---------	--------	---------------	-------------

Hormonal therapy	(1) Yes	(2) No	(3) Suggested	(9) Unknown
------------------	---------	--------	---------------	-------------

Isotope	(1) Yes	(2) No	(3) Suggested	(9) Unknown
---------	---------	--------	---------------	-------------

Targeted therapy	(1) Yes	(2) No	(3) Suggested	(9) Unknown
------------------	---------	--------	---------------	-------------

Family History	(1) Yes	(2) No	(9) Unknown
----------------	---------	--------	-------------

Affected members	
------------------	--

أسم وتوقيع الطبيب المعالج

ملاحظة: تملأ من قبل الطبيب حصراً.

References

References:

- [1] WHO/ Cancer. Fact sheet, February 2018:
<http://www.who.int/mediacentre/factsheets/fs297/en/>
- [2] Wahdan MH The epidemiological transition, East Mediterranean Health. J. 1996; 2:8–20. (http://applications.emro.who.int/emhj/0201/emhj_1996_2_1_8_20.pdf.)
- [3] International Agency for Research on Cancer (IARC) and World Health Organization GLOBOCAN 2012: estimated cancer incidence, mortality and prevalence worldwide in 2012. Geneva: World Health Organization; 2012 (http://globocan.iarc.fr/Pages/fact_sheets_population.aspx)
- [4] Global Health Estimates 2015
- [5] Planning and Resources Enhancement Office/Health Statistical Section/Ministry of Health/ Annual Statistical Report 2021
- [6] Ministry of planning / Central Statistic Organization, 2021

أكثر عشرة انواع للسرطان شيوعا عند النساء تتمثل بسرطان الثدي (35,02 %) (34,87 لكل مئة ألف من السكان من فئة النساء) وسرطان الغدة الدرقية (6,94 %) (6,91 لكل مئة ألف من السكان من فئة النساء) (سرطان القولون والمستقيم (5,75 %) (5,73 لكل مئة ألف من السكان من فئة النساء) وأورام الدماغ والجهاز العصبي المركزي (4,35 %) (4,33 لكل مئة ألف من السكان من فئة النساء) وسرطان القصبات والرئة (4,19 %) (4,17 لكل مئة ألف من السكان من فئة النساء) والسرطان المبيض (3,95 %) (3,93 لكل مئة ألف من السكان من فئة النساء) وسرطان الدم (اللوكيميا) (3,74 %) (3,72 لكل مئة ألف من السكان من فئة النساء) سرطان الرحم دون تحديد الجزء المصاب (3,19 %) (3,18 لكل مئة ألف من السكان من فئة النساء) وسرطان الغدد اللمفاوية اللاهودجكيني (3,12 %) (3,11 لكل مئة ألف من السكان من فئة النساء) والسرطان المعدة (2,75 %) (2,74 لكل مئة ألف من السكان من فئة النساء)

و كان العدد الكلي للحالات السرطانية الجديدة المسجلة بين الأطفال (0-14 سنة) هو 1,802 من مجموع 35,815 (العدد الكلي للإصابات السرطانية ولكافة الفئات العمرية) وتمثل 5,03 % من العدد الكلي للإصابات ولكافة الفئات العمرية، وان التقدير السنوي للإصابة هو 10,81 لكل مئة ألف من السكان/ فئة الأعمار 0-14 سنة كما ان أكثر الفئات العمرية تعرضا للإصابة ضمن الأكثر عشرة انواع للسرطان شيوعا عند الاطفال كان ضمن الفئة العمرية اقل من 5 سنوات ويمثل 12,08 لكل مئة ألف من السكان/ فئة الأعمار 0-14 سنة. وأن أعلى تقدير سنوي للإصابات بين الأطفال هو بسبب سرطان الدم (اللوكيميا) (3,41 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 انواع للسرطان شيوعا عند الاطفال كان في محافظة النجف الأشرف (11,60 لكل مئة ألف من السكان/ فئة الأعمار 0-14 سنة)، وان أدنى تقدير سنوي للإصابات كان في محافظة محافظة بابل (6,34 لكل مئة ألف من السكان/ فئة الأعمار 0-14 سنة).

وكان العدد الكلي للوفيات بسبب السرطان خلال عام 2020 هو 10,909 وبتقدير سنوي للعشر اسباب الاولى للوفيات بسبب السرطان حسب عدد السكان للفئات العمرية المعتمد من قبل منظمة الصحة العالمية 36,61 لكل مئة ألف من السكان وقد لوحظ أن أعلى تقدير سنوي للوفاة هو بسبب سرطان القصبات والرئة (16,10 %) (4,26 لكل مئة ألف من السكان) كما ان أعلى تقدير سنوي للوفاة عند الرجال هو ايضا بسبب سرطان القصبات والرئة (21,70 %) (5,63 لكل مئة ألف من السكان من فئة الرجال) وان أعلى تقدير سنوي للوفاة عند النساء هو بسبب سرطان الثدي (24,97 %) (6,75 لكل مئة ألف من السكان من فئة النساء). وأن أعلى الفئات العمرية تعرضا للوفاة ضمن الأكثر عشرة انواع شيوعا للسرطان هو 75-80 سنة. كما أن أعلى تقدير سنوي للوفاة ضمن الأكثر عشرة انواع شيوعا للسرطان سجل في محافظة كربلاء (4,91 %) (30,45 لكل مئة ألف من السكان).

و كان العدد الكلي للحالات السرطانية الجديدة المسجلة لغير العراقيين خلال عام 2021 هو 129 وأن أكثر الفئات العمرية تعرضا للإصابة عند الذكور هو 60-65 سنة بينما أكثر الفئات العمرية تعرضا للإصابة عند الإناث هو 50-55 سنة. نسبة إصابة الذكور للإناث هو 1:3. وأن السبب الرئيسي للإصابة عند الذكور هو بسبب سرطان الدم (اللوكيميا) (16,07 %) ثم سرطان القصبات والرئة (14,29 %) بينما السبب الرئيسي للإصابة عند الإناث هو بسبب سرطان الثدي (50,68 %) ثم سرطان القصبات والرئة (6,85 %). أعلى نسب للإصابات لكلا الجنسين تم تسجيلها في محافظة أربيل (48,06 %). العدد الكلي للوفيات المسجلة بسبب السرطان لغير العراقيين هو 9 فقط (5 أنثى و4 ذكور) وان أعلى نسبة للوفاة بسبب السرطان سجلت في محافظة دهوك (66,67 %).

ملخص التقرير السنوي:

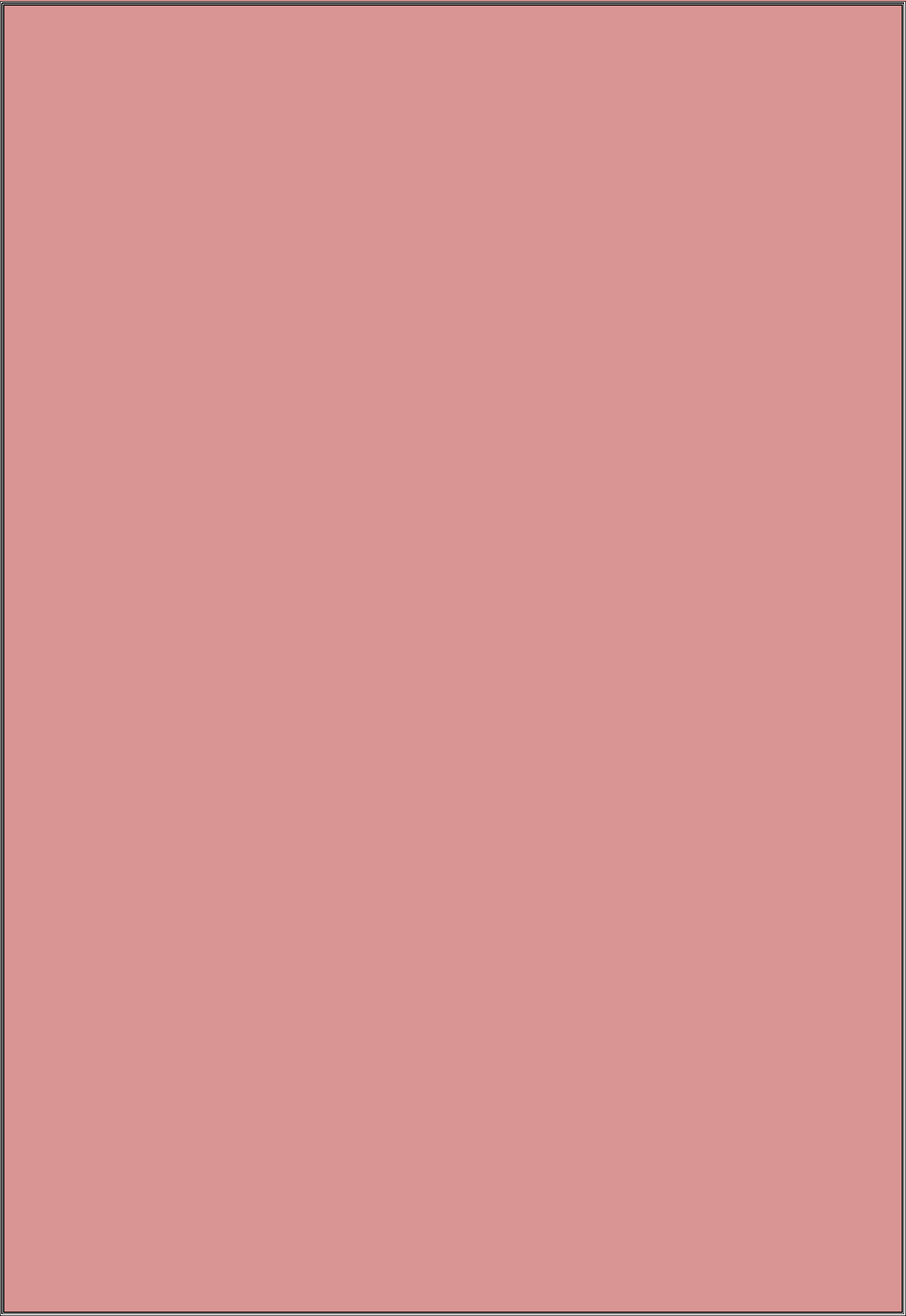
يعطي التقرير السنوي للتسجيل السرطاني في العراق معلومات عن الحالات السرطانية الجديدة المشخصة خلال السنة بالإضافة إلى حالات الوفاة المسجلة بسبب السرطان، عن طريق جمع البيانات من المستشفيات والمختبرات (الحكومية والأهلية) في جميع دوائر الصحة في العراق بواسطة برنامج 5.CanReg.

العدد الكلي للحالات السرطانية الجديدة المسجلة خلال عام 2021 هو 35,815 وان التقدير السنوي للإصابات حسب عدد السكان للفئات العمرية المعتمد من قبل منظمة الصحة العالمية هو 149,10 لكل مئة ألف من السكان وقد لوحظ أن أعلى الفئات العمرية تأثراً للإصابة بمرض السرطان هو 75-80 سنة. وفيما يتعلق بالمحافظات، لوحظ أن أعلى تقدير سنوي للإصابة في العراق كان في محافظة السليمانية (118,87 لكل مئة ألف من السكان). بالنسبة لفئة الرجال فإن أعلى تقدير سنوي للإصابة كان في محافظة السليمانية (113,55 لكل مئة ألف من السكان فئة الرجال)، أما بالنسبة لفئة النساء فإن أعلى تقدير سنوي للإصابة كان في محافظة كربلاء (125,06 لكل مئة ألف من السكان فئة النساء) وأن أقل تقدير سنوي للإصابة في العراق كان في كركوك (62,93 لكل مئة ألف من السكان) وأن أقل تقدير سنوي للإصابة بين الرجال كان في محافظة كركوك (51,20 لكل مئة ألف من السكان من فئة الرجال) وكذلك بالنسبة للنساء فإن أقل تقدير سنوي للإصابة كان في محافظة دهوك (71,62 لكل مئة ألف من السكان من فئة النساء).

وقد ازدادت نسبة الإصابات الجديدة بالمرض في التقدير السنوي لمرض السرطان في العراق من عام 1994 (38,91 لكل مئة ألف من السكان) الى عام 2021 (86,94 لكل مئة ألف من السكان).

وقد ظهر أن أكثر عشرة أنواع شيوعاً لمرض السرطان لكلا الجنسين كانت سرطان الثدي (20,23%) (17,59 لكل مئة ألف من السكان) وسرطان القنصبات والرئة (7,82%) (6,80 لكل مئة ألف من السكان) وسرطان القولون والمستقيم (6,96%) (6,05 لكل مئة ألف من السكان) وأورام الدماغ والجهاز العصبي المركزي (5,25%) (4,57 لكل مئة ألف من السكان) وسرطان المثانة (4,94%) (4,29 لكل مئة ألف من السكان) وسرطان الغدة الدرقية (4,92%) (4,28 لكل مئة ألف من السكان) وسرطان الدم (اللوكيميا) (4,84%) (4,20 لكل مئة ألف من السكان) وسرطان الغدة اللمفاوية اللا هودجكيني (4%) (3,48 لكل مئة ألف من السكان) وسرطان البروستات (3,67%) (6,31 لكل مئة ألف من السكان من فئة الرجال) وسرطان الجلد (3,41%) (2,96 لكل مئة ألف من السكان).

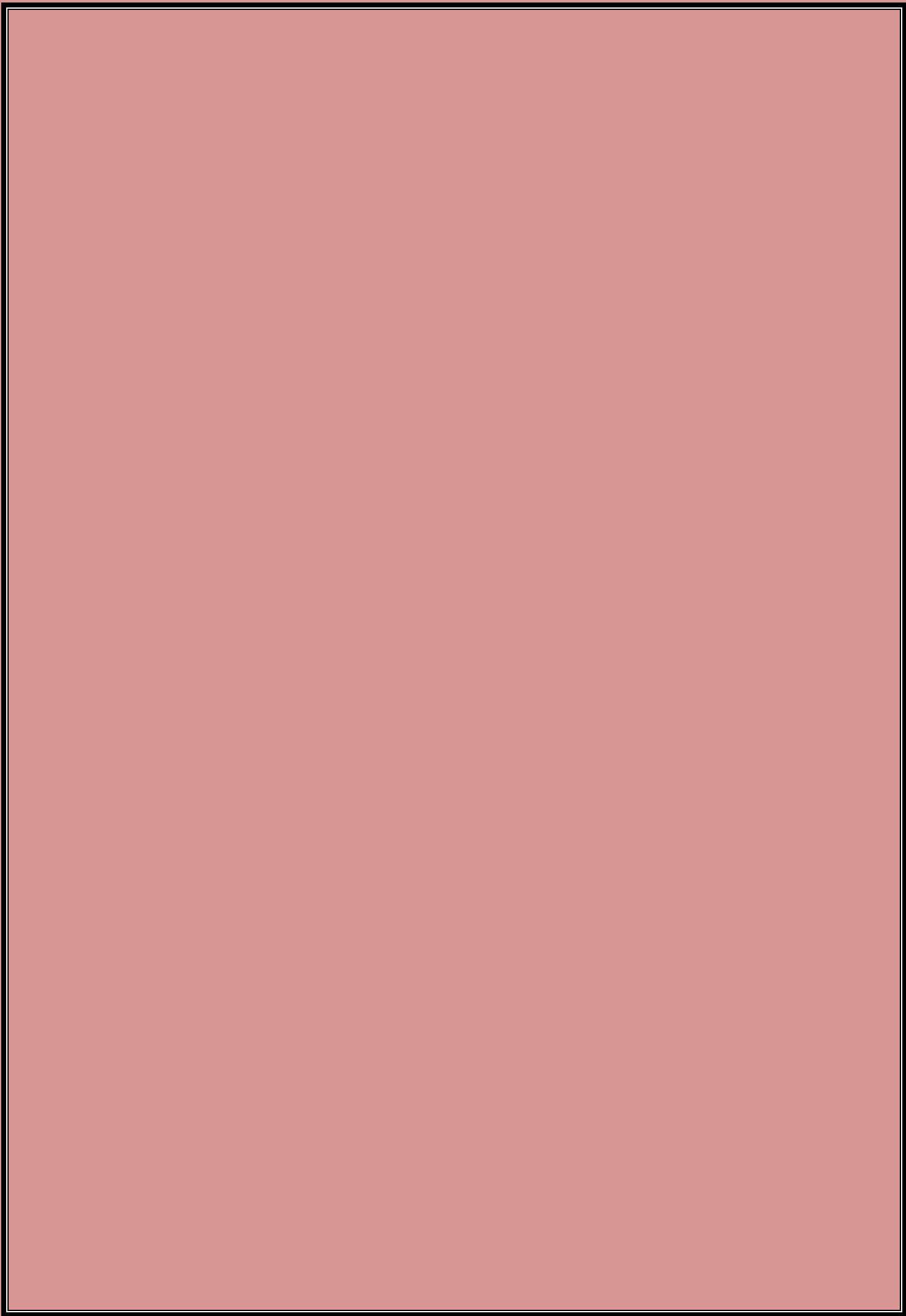
و كانت أكثر عشرة أنواع شيوعاً للسرطان عند الرجال تتمثل بسرطان القنصبات والرئة (12,57%) (9,38 لكل مئة ألف من السكان من فئة الرجال) وسرطان المثانة (7,76%) (6,54 لكل مئة ألف من السكان من فئة الرجال) وسرطان القولون والمستقيم (8,54%) (6,37 لكل مئة ألف من السكان من فئة الرجال) وسرطان البروستات (8,46%) (6,31 لكل مئة ألف من السكان من فئة الرجال) (وأورام الدماغ والجهاز العصبي المركزي (6,43%) (4,80 لكل مئة ألف من السكان من فئة الرجال) وسرطان الدم (اللوكيميا) (6,27%) (4,68 لكل مئة ألف من السكان من فئة الرجال) وسرطان الغدة اللمفاوية اللا هودجكيني (5,15%) (3,84 لكل مئة ألف من السكان من فئة الرجال) وسرطان الجلد (4,31%) (3,21 لكل مئة ألف من السكان من فئة الرجال) وسرطان المعدة (4,02%) (3 لكل مئة ألف من السكان من فئة الرجال) وسرطان الكلى (3,78%) (2,82 لكل مئة ألف من السكان من فئة الرجال).



جمهورية العراق
وزارة الصحة والبيئة
مجلس السرطان في العراق

التقرير السنوي
للتسجيل السرطاني في العراق
2021

Email: iqcaboard@moh.gov.iq





جمهورية العراق

وزارة الصحة والبيئة

مجلس السرطان في العراق

