

**Supplementary Table 1. Types of cancer 2013-2019 in Erbil governorate**

	2013				2014				2015				2016				2017				2018				2019			
	F	M	T	%	F	M	T	%	F	M	T	%	F	M	T	%	F	M	T	%	F	M	T	%	F	M	T	%
<b>Breast</b>	26 3	5	268	21. 4	50 6	11	517	29. 4	42 2	10	432	24.8 6	35 8	11	369	21. 6	559	23	582	20. 9	572	25	597	19. 6	726	20	746	21. 6
<b>Lung</b>	26	11 4	140	11. 2	36	12 4	160	9.1 1	41	15 6	197	11.3 3	40	14 9	189	11. 1	63	216	279	10	66	234	300	9.8 6	72	271	343	9.9 2
<b>Blood</b>	84	95	179	14. 3	94	13 6	230	13. 1	66	11 6	182	10.4 7	45	55	100	5.8 5	109	137	246	8.8 3	91	152	243	7.9 9	111	124	235	6.8
<b>Colorectal</b>	40	37	77	6.1 6	58	63	121	6.8 9	49	71	120	6.9	64	76	140	8.1 9	90	132	222	7.9 7	110	117	227	7.4 6	139	145	284	8.2 2
<b>Kidney</b>	14	46	60	4.8	13	36	49	2.7 9	25	43	68	3.91	38	10 6	144	8.4 3	48	182	230	8.2 6	74	175	249	8.1 8	74	226	300	8.6 8
<b>Skin</b>	7	8	15	1.2	13	18	31	1.7 7	8	13	21	1.21	39	46	85	4.9 7	92	75	167	5.9 9	136	117	253	8.3 1	105	111	216	6.2 5
<b>Prostate</b>		41	41	3.2 8		63	63	3.5 9		82	82	4.72		70	70	4.1		122	122	4.3 8		151	151	4.9 6		192	192	5.5 5
<b>Lymph Nodes</b>	38	62	100	8	37	69	106	6.0 4	39	42	81	4.66	33	38	71	4.1 5	42	55	97	3.4 8	50	43	93	3.0 6	47	74	121	3.5
<b>Stomach</b>	18	23	41	3.2 8	22	30	52	2.9 6	31	31	62	3.57	28	34	62	3.6 3	39	78	117	4.2	30	62	92	3.0 2	58	60	118	3.4 1
<b>Brain</b>	8	15	23	1.8 4	27	39	66	3.7 6	28	27	55	3.16	23	32	55	3.2 2	37	40	77	2.7 6	41	54	95	3.1 2	35	45	80	2.3 1
<b>Thyroid</b>	4	1	5	0.4	13	5	18	1.0 3	21	8	29	1.67	29	7	36	2.1 1	52	18	70	2.5 1	78	30	108	3.5 5	95	28	123	3.5 6
<b>Ovary</b>	38		38	3.0 4	31		31	1.7 7	44		44	2.53	38		38	2.2 2	62		62	2.2 3	62		62	2.0 4	69		69	2
<b>Uterus</b>	32		32	2.5 6	30		30	1.7 1	35		35	2.01	36		36	2.1 1	61		61	2.1 9	76		76	2.5	70		70	2.0 2
<b>Bone</b>	19	25	44	3.5 2	15	29	44	2.5 1	17	12	29	1.67	12	16	28	1.6 4	20	21	41	1.4 7	18	23	41	1.3 5	18	23	41	1.1 9
<b>Liver</b>	7	3	10	0.8	6	10	16	0.9 1	16	23	39	2.24	14	18	32	1.8 7	25	27	52	1.8 7	25	38	63	2.0 7	22	30	52	1.5
<b>Pancreas</b>	8	19	27	2.1 6	9	16	25	1.4 2	17	16	33	1.9	14	8	22	1.2 9	15	20	35	1.2 6	21	31	52	1.7 1	31	31	62	1.7 9
<b>Mouth</b>	6	8	14	1.1 2	13	20	33	1.8 8	5	19	24	1.38	13	17	30	1.7 6	18	22	40	1.4 4	20	29	49	1.6 1	27	27	54	1.5 6
<b>Soft Tissues</b>	8	11	19	1.5 2	11	15	26	1.4 8	9	9	18	1.04	13	6	19	1.1 1	15	18	33	1.1 8	19	26	45	1.4 8	17	19	36	1.0 4
<b>Esophagus</b>	4	1	5	0.4	9	3	12	0.6 8	10	9	19	1.09	9	8	17	0.9 9	16	15	31	1.1 1	7	13	20	0.6 6	14	20	34	0.9 8
<b>Cervix and vagina</b>	7		7	0.5 6	12		12	0.6 8	19		19	1.09	19		19	1.1 1	18		18	0.6 5	30		30	0.9 9	27		27	0.7 8
<b>Testis</b>		10	10	0.8		15	15	0.8 5		18	18	1.04		13	13	0.7 6		24	24	0.8 6		22	22	0.7 2		28	28	0.8 1
<b>Pharynx</b>	6	6	12	0.9 6	4	8	12	0.6 8	3	7	10	0.58	4	8	12	0.7	4	14	18	0.6 5	8	10	18	0.5 9	4	12	16	0.4 6

<b>Adrenal Gland</b>	6	6	12	0.9 6	3	5	8	0.4 6	1	5	6	0.35	2	2	4	0.2 3	6	3	9	0.3 2	6	2	8	0.2 6	7	8	15	0.4 3
<b>Small Intestine</b>		1	1	0.0 8		2	2	0.1 1	2	6	8	0.46	3	4	7	0.4 1	6	8	14	0.5	3	5	8	0.2 6	5	13	18	0.5 2
<b>Placenta</b>									7		7	0.4	10		10	0.5 9	11		11	0.3 9	16		16	0.5 3	13		13	0.3 8
<b>Eye</b>					1	2	3	0.1 7	3	4	7	0.4	6	3	9	0.5 3	4	5	9	0.3 2	7	3	10	0.3 3	5	2	7	0.2
<b>GIT-other</b>	2	4	6	0.4 8	1	5	6	0.3 4	7	5	12	0.69		1	1	0.0 6	3		3	0.1 1	1		1	0.0 3	1	1	2	0.0 6
<b>Heart</b>					1	2	3	0.1 7		4	4	0.23				0	2	4	6	0.2 2	2	3	5	0.1 6	5	5	10	0.2 9
<b>Peritoneum</b>	6		6	0.4 8	2	1	3	0.1 7	3	4	7	0.4	2	2	4	0.2 3		2	2	0.0 7	2	2	4	0.1 3	1	1	2	0.0 6
<b>Glands - Other</b>	1		1	0.0 8	2	2	4	0.2 3	2	1	3	0.17	1	1	2	0.1 2	1	1	2	0.0 7	6		6	0.2	5	1	6	0.1 7
<b>Nerves</b>					2		2	0.1 1	5	1	6	0.35	1		1	0.0 6	1		1	0.0 4	2	2	4	0.1 3	5	2	7	0.2
<b>Ear/Nose</b>		1	1	0.0 8	2	1	3	0.1 7		1	1	0.06		2	2	0.1 2		3	3	0.1 1	2	3	5	0.1 6		2	2	0.0 6
<b>Thymus</b>		1	1	0.0 8	2	3	5	0.2 8						1	1	0.0 6	2		2	0.0 7	2		2	0.0 7	3	1	4	0.1 2
<b>NOS</b>	11	16	27	2.1 6	1	3	4	0.2 3	4	8	12	0.69	1	9	10	0.5 9	7	7	14	0.5	4	6	10	0.3 3	6	6	12	0.3 5
<b>UPS</b>	13	15	28	2.2 4	19	25	44	2.5 1	21	27	48	2.76	41	30	71	4.1 5	53	33	86	3.0 9	36	42	78	2.5 6	67	45	112	3.2 4
<b>Grand Total</b>	67 6	57 4	125 0		99 5	76 1	175 6		96 0	77 8	173 8		93 6	77 3	170 9		148 1	130 5	278 6		162 3	142 0	304 3		188 4	157 3	345 7	

**NOS: Not Otherwise Specified; UPS: Unknown primary site**

**Supplementary Table 2. Types of cancer 2013-2019 in Duhok governorate**

	2013				2014				2015				2016				2017				2018				2019				
	F	M	T	%	F	M	T	%	F	M	T	%	F	M	T	%	F	M	T	%	F	M	T	%	F	M	T	%	
<b>Breast</b>	110	33	113	23.25	154	22	156	14.12	150	1	151	14.39	149	3	152	14.05	187		187	17.06	187	7	4	191	16.65	268	4	272	19.93
<b>Lung</b>	8	57	65	13.37	15	105	120	10.86	9	87	96	9.15	12	92	104	9.61	12	97	109	9.95	23	113	136	11.86	19	98	117	8.57	
<b>Blood</b>	26	34	60	12.35	72	68	140	12.67	40	62	102	9.72	58	53	111	10.26	55	54	109	9.95	41	55	96	8.37	58	79	137	10.04	
<b>Colorectal</b>	23	13	36	7.41	33	48	81	7.33	34	43	77	7.34	33	50	83	7.67	38	48	86	7.85	44	38	82	7.15	58	79	137	10.04	
<b>Kidney</b>	7	21	28	5.76	11	65	76	6.88	20	45	65	6.2	13	58	71	6.56	19	59	78	7.12	18	61	79	6.89	29	60	89	6.52	
<b>Skin</b>	2	7	9	1.85	42	48	90	8.14	45	62	107	10.2	55	48	103	9.52	56	49	105	9.58	54	51	105	9.15	69	59	128	9.38	
<b>Prostate</b>		14	14	2.88		24	24	2.17		21	21	2		18	18	1.66		22	22	2.01		38	38	3.31		41	41	3	
<b>Lymph nodes</b>	14	20	34	7	10	4	14	1.27	16	31	47	4.48	25	28	53	4.9	21	27	48	4.38	25	18	43	3.75	12	16	28	2.05	
<b>Stomach</b>	8	11	19	3.91	18	32	50	4.52	13	24	37	3.53	18	26	44	4.07	12	17	29	2.65	8	18	26	2.27	25	9	34	2.49	
<b>Brain</b>	10	15	25	5.14	22	29	51	4.62	25	32	57	5.43	27	21	48	4.44	21	24	45	4.11	21	27	48	4.18	27	22	49	3.59	
<b>Thyroid</b>	3		3	0.62	10		10	0.9	23	2	25	2.38	17	2	19	1.76	13	2	15	1.37	29	8	37	3.23	26	8	34	2.49	
<b>Ovary</b>	14		14	2.88	28		28	2.53	23		23	2.19	30		30	2.77	20		20	1.82	25		25	2.18	32		32	2.34	
<b>Uterus</b>	5		5	1.03	14		14	1.27	22		22	2.1	13		13	1.2	14		14	1.28	17		17	1.48	27		27	1.98	
<b>Bone</b>	4	4	8	1.65	5	12	17	1.54	7	9	16	1.53	11	11	22	2.03	11	10	21	1.92	6	14	20	1.74	5	14	19	1.39	
<b>Liver</b>	3	3	6	1.23	11	7	18	1.63	14	17	31	2.96	7	20	27	2.5	10	23	33	3.01	12	17	29	2.53	14	21	35	2.56	
<b>Pancreas</b>	7	9	16	3.29	7	7	14	1.27	9	6	15	1.43	7	5	12	1.11	7	9	16	1.46	13	20	33	2.88	10	24	34	2.49	
<b>Mouth</b>	2	1	3	0.62	3	5	8	0.72	4	1	5	0.48	3	7	10	0.92	2	3	5	0.46	4	3	7	0.61	2		2	0.15	
<b>Soft Tissues</b>	3	9	12	2.47	41	51	92	8.33	22	32	54	5.15	32	27	59	5.45	30	27	57	5.2	22	18	40	3.49	29	32	61	4.47	
<b>Esophagus</b>		2	2	0.41	7	5	12	1.09	3	7	10	0.95		6	6	0.55	4	5	9	0.82	3	6	9	0.78	6	7	13	0.95	
<b>Cervix and vagina</b>	1		1	0.21	7		7	0.63	8		8	0.76	11		11	1.02	4		4	0.36	10		10	0.87	10		10	0.73	
<b>Testis</b>		6	6	1.23		12	12	1.09		6	6	0.57		10	10	0.92		9	9	0.82		13	13	1.13		19	19	1.39	
<b>Pharynx</b>	1	2	3	0.62	3		3	0.27	1	3	4	0.38		2	2	0.18	1	3	4	0.36	1	3	4	0.35		2	2	0.15	
<b>Adrenal Gland</b>					1		1	0.09	2		2	0.19	1	2	3	0.28					3		3	0.26				0	
<b>Small Intestine</b>						2	2	0.18	1	1	2	0.19						1	1	0.09		1	1	0.09				0	
<b>Placenta</b>												0									1		1	0.09	1		1	0.07	
<b>Eye</b>					2	1	3	0.27	1	2	3	0.29	2	2	4	0.37		2	2	0.18	3	1	4	0.35		2	2	0.15	
<b>GIT-other</b>					6	6	12	1.09	8	7	15	1.43	10	15	25	2.31	13	3	16	1.46	5	8	13	1.13	1		1	0.07	

<b>Heart</b>							<b>0</b>	6	1	7	<b>0.67</b>	1	4	5	<b>0.46</b>	2	8	10	<b>0.91</b>	2	4	6	<b>0.52</b>	4	2	6	<b>0.44</b>			
<b>Peritoneum</b>					1		<b>1</b>	<b>0.09</b>				<b>0</b>	3		3	<b>0.28</b>									1	1	<b>0.07</b>			
<b>Glands - Other</b>		1	1	<b>0.21</b>	1	1	2	<b>0.18</b>				<b>0</b>	1		1	<b>0.09</b>											<b>0</b>			
<b>Nerves</b>					2		2	<b>0.18</b>	1		1	<b>0.1</b>		1	1	<b>0.09</b>	1	1	2	<b>0.18</b>							1		1	<b>0.07</b>
<b>Ear/Nose</b>					7	9	16	<b>1.45</b>	19	15	34	<b>3.24</b>	8	6	14	<b>1.29</b>	6	7	13	<b>1.19</b>	1	7	8	<b>0.7</b>	2	4	6	<b>0.44</b>		
<b>Thymus</b>														1	1	<b>0.09</b>									1		1	<b>0.09</b>		
<b>NOS</b>					1	1	2	<b>0.18</b>				<b>0</b>				<b>0</b>		1	1	<b>0.09</b>			1	1	<b>0.09</b>				<b>0</b>	
<b>UPS</b>	1	2	3	<b>0.62</b>	13	14	27	<b>2.44</b>	3	3	6	<b>0.57</b>	8	9	17	<b>1.57</b>	17	9	26	<b>2.37</b>	13	8	21	<b>1.83</b>	12	15	27	<b>1.98</b>		
<b>Grand Total</b>	25	23	48		<b>54</b>	55	110		52	52	104		55	52	108		57	52	109		59	55	114		74	61	136			
	2	4	6		<b>7</b>	8	5		9	0	9		5	7	2		6	0	6		2	5	7		7	8	5			

**NOS: Not Otherwise Specified; UPS: Unknown primary site**