

COLLECTIVE CANCER REGISTRY REPORT-DECEMBER 1994 TO DECEMBER 2020: SHAUKAT KHANUM MEMORIAL CANCER HOSPITAL & RESEARCH CENTER, PAKISTAN

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CANCER STATISTICS

This report includes patients registered at the centers affiliated with the Shaukat Khanum Memorial Trust and accessioned into the hospital information system in Lahore. The centers affiliated include two hospitals, ‘Shaukat Khanum Memorial Cancer Hospital and Research Center’ (SKMCH&RC) in Lahore and Peshawar, the Karachi Diagnostic Center (KDC), and Shaukat Khanum Diagnostic Center Liberty (SKDCL), Lahore. SKMCH&RC Lahore is the oldest center and has been functioning since December 29, 1994; SKMCH&RC Peshawar since December 29, 2015; KDC since 2010; and SKDCL since August 01, 2019. For presenting the combined results, all these centers are referred to as SKMCH&RC/hospital in this report.

Distribution of neoplasms

Of a total of 111,783 neoplasms, 53,257 were seen in males (47.6%) and 58,526 (52.4%) in females registered at the aforementioned facilities in Pakistan in 26 years extending from December 29, 1994, till December 31, 2020. A total of 101,051 (90.4%) tumors were found in adults, whereas 10,732 (9.6%) were seen in children. Children were classified as patients 18-years or less and adults as patients more than 18-years of age. Table 1 shows the stratification of cases by behavior and age-group, whereas Table 2 shows the counts of malignancies in males and females according to age-group.

Table 1. Distribution of neoplasms by behavior and age-group, Dec. 1994 to Dec. 2020.

Behavior	Age-group	Registered patients (107,639)	Reported neoplasm* (111,783)
Malignant~	Adults	92,720	94,601
	Pediatrics	10,289	10,359
	Total	103,009	104,960
Benign^ & uncertain behavior	Adults	6,006	6,450
	Pediatrics	356	373
	Total	6,362	6,823

*The difference in the number of registered patients and reported neoplasms is attributed to multiple malignancies and benign neoplasms diagnosed in 1,951 and 461 patients, respectively. Further, 1,732 patients have both malignant & benign neoplasms simultaneously.

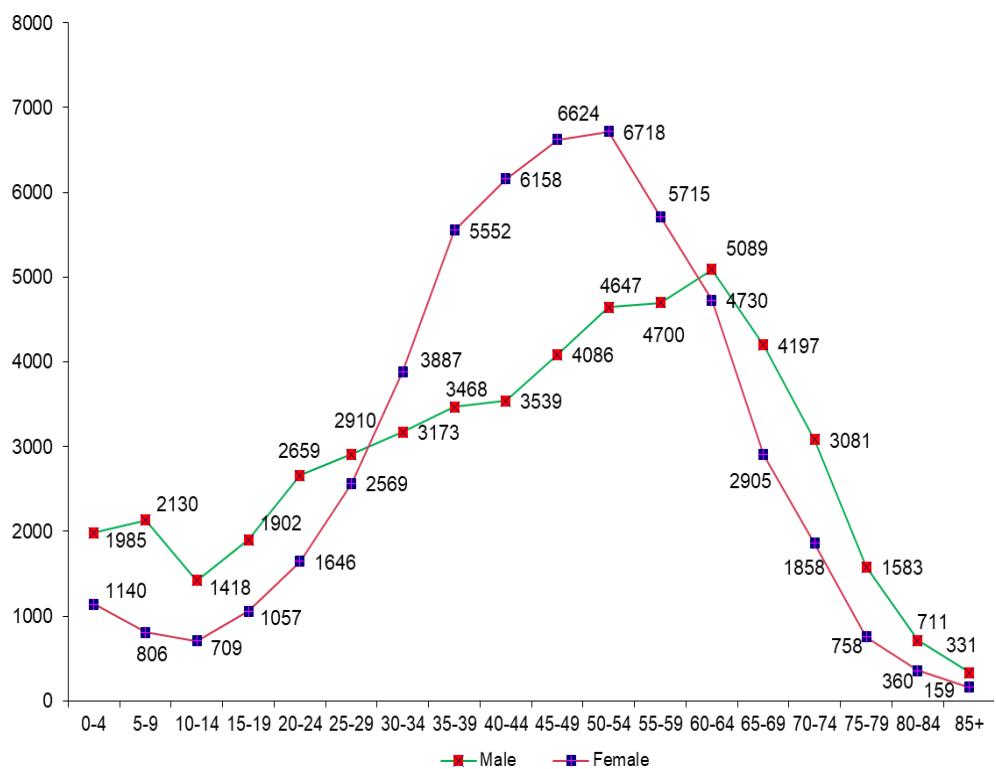
~Cases with behavior code /3 and /2 are considered as malignant cases.

^Cases with behavior code /0 and /1 are considered as benign and of uncertain behavior, respectively.

Table 2. Malignancies registered at SKMCH&RC from Dec. 1994 to Dec. 2020, stratified by sex and age-group.

Age-range	Female	Male	Total
0-4	1140	1985	3125
5-9	806	2130	2936
10-14	709	1418	2127
15-19	1057	1902	2959
20-24	1646	2659	4305
25-29	2569	2910	5479
30-34	3887	3173	7060
35-39	5552	3468	9020
40-44	6158	3539	9697
45-49	6624	4086	10710
50-54	6718	4647	11365
55-59	5715	4700	10415
60-64	4730	5089	9819
65-69	2905	4197	7102
70-74	1858	3081	4939
75-79	758	1583	2341
80-84	360	711	1071
85+	159	331	490
Total	53351	51609	104960

Figure 1. Distribution of malignancies by sex and age-group (years).



Demographics

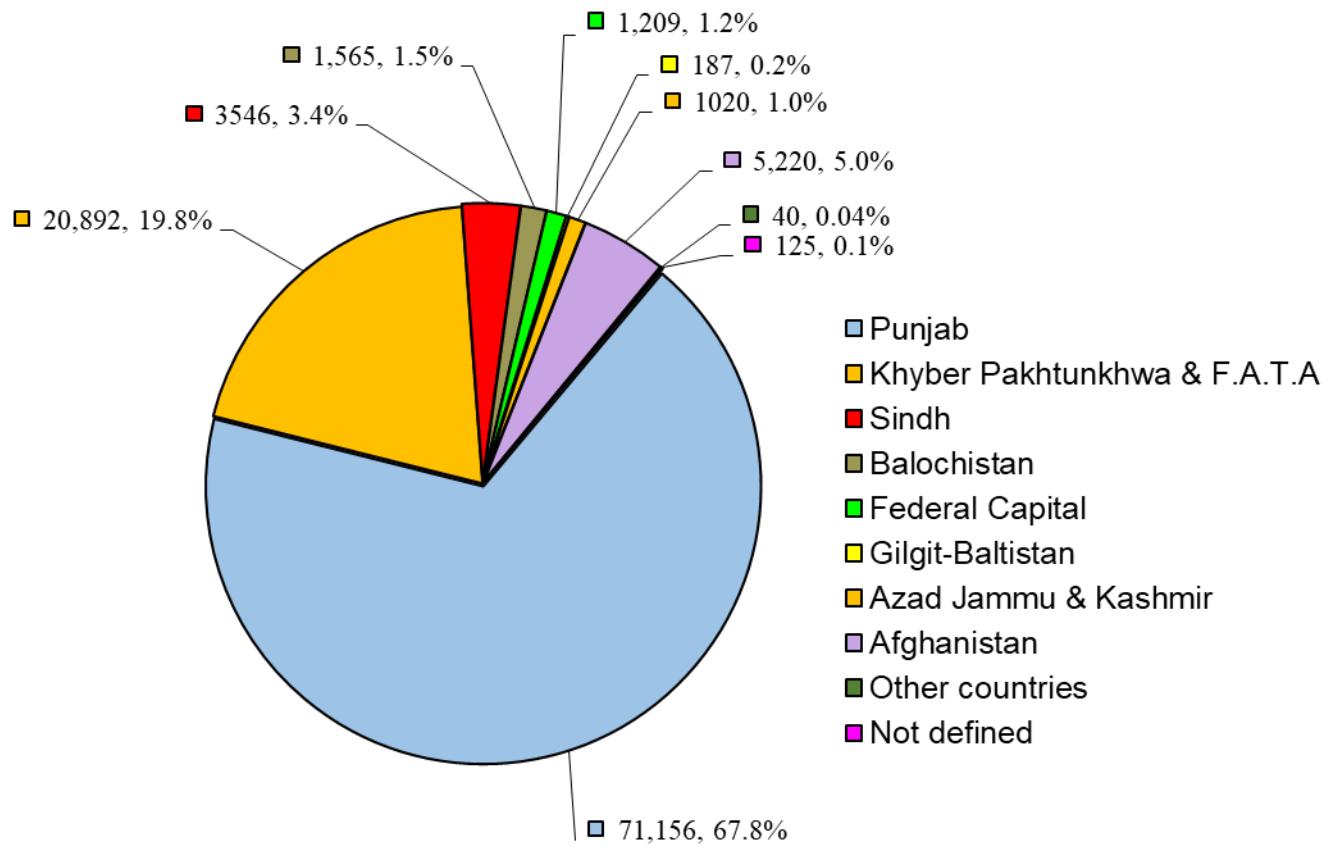
Of the 104,960 malignancies, nearly 67.8% (71,156) belonged to the province of Punjab and approximately 19.9% (20,892) to Khyber Pakhtunkhwa (NWFP) & FATA*. The fact that the geographic area of residence of a vast majority of patients was Punjab can be explained considering the information that the oldest SKMCH&RC hospital is situated in the provincial capital of Punjab and that, this province account for almost 50% of the total population of the country.

Table 3. Distribution of malignancies according to the geographic area of residence of the patients, Dec. 1994 to Dec. 2020.

Demographic area	Malignancies (N=104,960)	Percent (%)
Punjab	71,156	67.8
Khyber Pakhtunkhwa including F.A.T.A*	20,892	19.8
Sindh	3,546	3.4
Balochistan	1,565	1.5
Federal Capital	1,209	1.2
Gilgit-Baltistan	187	0.2
Azad Jammu & Kashmir	1020	1.0
Afghanistan	5,220	5.0
Other countries	40	0.04
Not defined	125	0.1

* The administrative unit of F.A.T.A was merged with Khyber Pakhtunkhwa on May 28, 2018.

Figure 2. Distribution of malignancies according to the geographic area of residence of the patients, Dec. 1994 to Dec. 2020.



Data Source: Cancer Registry & Clinical Data Management, SKMCH&RC

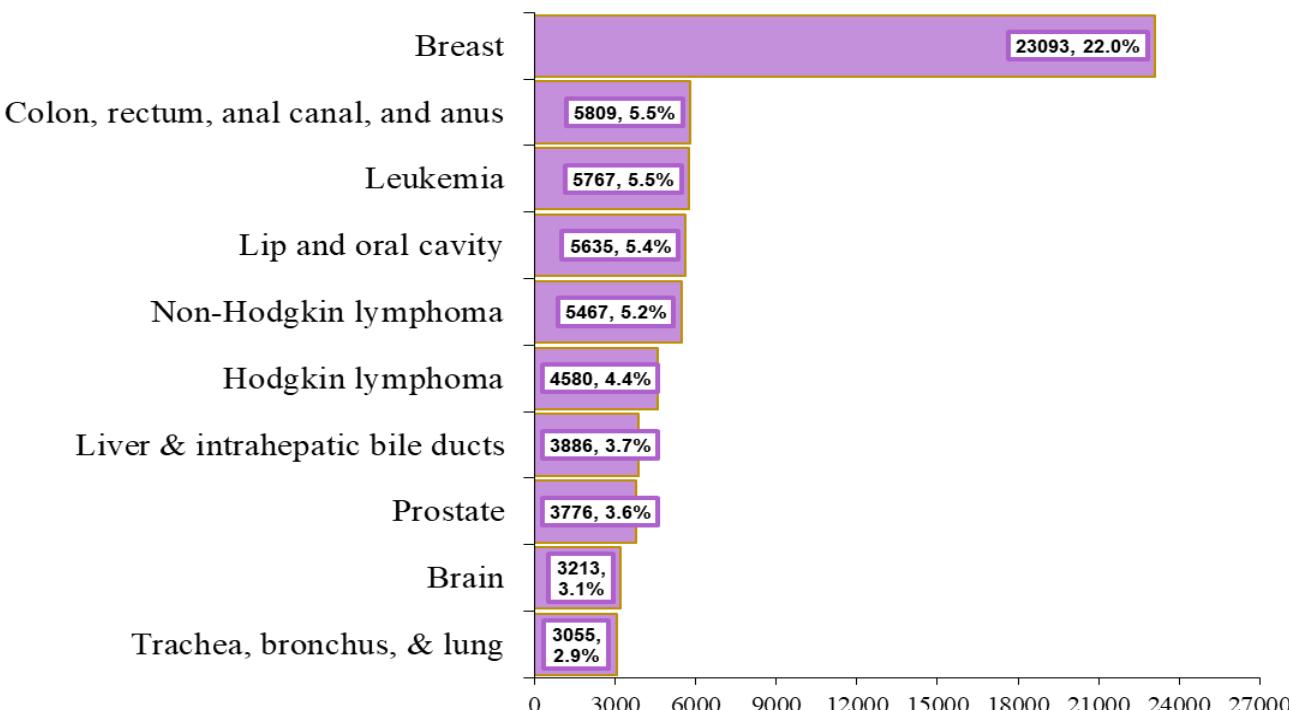
Distribution of malignancies

Tables 4-8 display lists of the top 10 cancers registered at the hospital during the 26 years under study. The results have been divided into those for males, females, adults, children, and all age-groups combined. The results for all age-groups, both sexes combined show that breast cancer, colon, rectum, anal canal and anus cancers, leukemia, lip and oral cavity cancers, and non-Hodgkin lymphoma, were the commonest malignancies seen at the hospital (Table 4).

Table 4. Top 10 malignancies among all age-groups, both sexes combined (N=104,960), at SKMCH&RC, Dec. 1994 to Dec. 2020.

Sr. No.	ICD Category	Count	Percentage	ICD-10-CM Code
1	Breast	23,093	22.0	C50, D05
2	Colon, rectum, anal canal, & anus	5,809	5.5	C18–C21, D01, C7A.02, C49.A
3	Leukemia	5,767	5.5	C91 – C95
4	Lip & oral cavity	5,635	5.4	C00 – C08, C76.0, D00.0
5	Non-Hodgkin lymphoma	5,467	5.2	C82 – C87, C88.4
6	Hodgkin lymphoma	4,580	4.4	C81
7	Liver & intrahepatic bile ducts	3,886	3.7	C22
8	Prostate	3,776	3.6	C61, D07.5
9	Brain	3,213	3.1	C70 - C71
10	Trachea, bronchus, & lung	3,055	2.9	C33 – C34, D02.1-2, C7A.090

Figure 3. Top 10 malignancies among all age-group, both sexes combined at SKMCH&RC, Dec. 1994 to Dec. 2020.



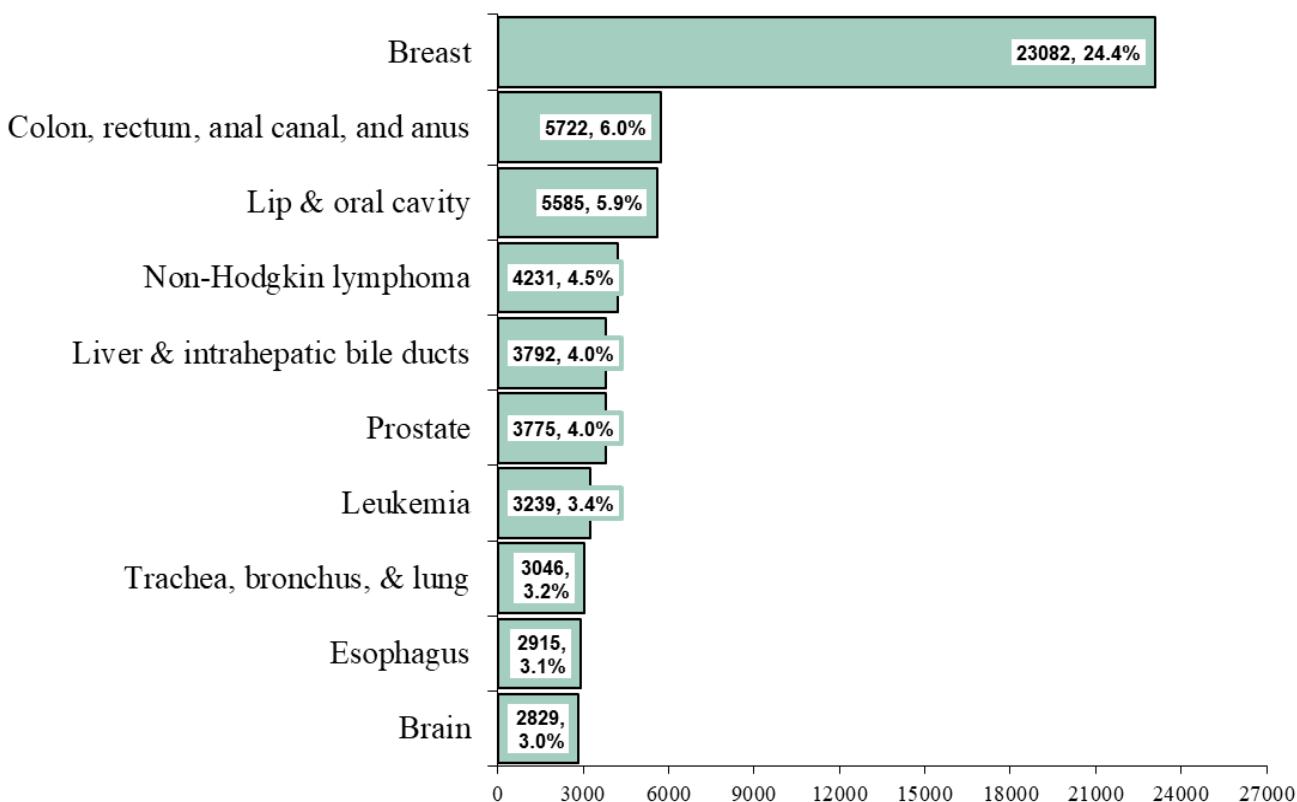
Data Source: Cancer Registry & Clinical Data Management, SKMCH&RC

Among adults (> 18 years), the commonest malignancies were those of the breast, colon, rectum, anal canal & anus, and lip & oral cavity (Table 5).

Table 5. Top 10 malignancies among adults (> 18-years (N=94,601)), in both sexes combined, Dec. 1994 to Dec. 2020.

Sr. No.	ICD Category	Count	Percentage	ICD-10-CM Code
1	Breast	23,082	24.4	C50, D05
2	Colon, rectum, anal canal, and anus	5,722	6.0	C18–C21, D01, C7A.02, C49.A
3	Lip & oral cavity	5,585	5.9	C00 – C08, C76.0, D00.0
4	Non-Hodgkin lymphoma	4,231	4.5	C82 – C86, C88.4
5	Liver & intrahepatic bile ducts	3,792	4.0	C22
6	Prostate	3,775	4.0	C61, D07.5
7	Leukemia	3,239	3.4	C91 – C95
8	Trachea, bronchus, & lung	3,046	3.2	C33 – C34, D02.1-2, C7A.090
9	Esophagus	2,915	3.1	C15, D00.1
10	Brain	2,829	3.0	C70 - C71

Figure 4. Top 10 malignancies among adults (> 18 years) in both sexes combined, Dec. 1994 to Dec. 2020.



Data Source: Cancer Registry & Clinical Data Management, SKMCH&RC

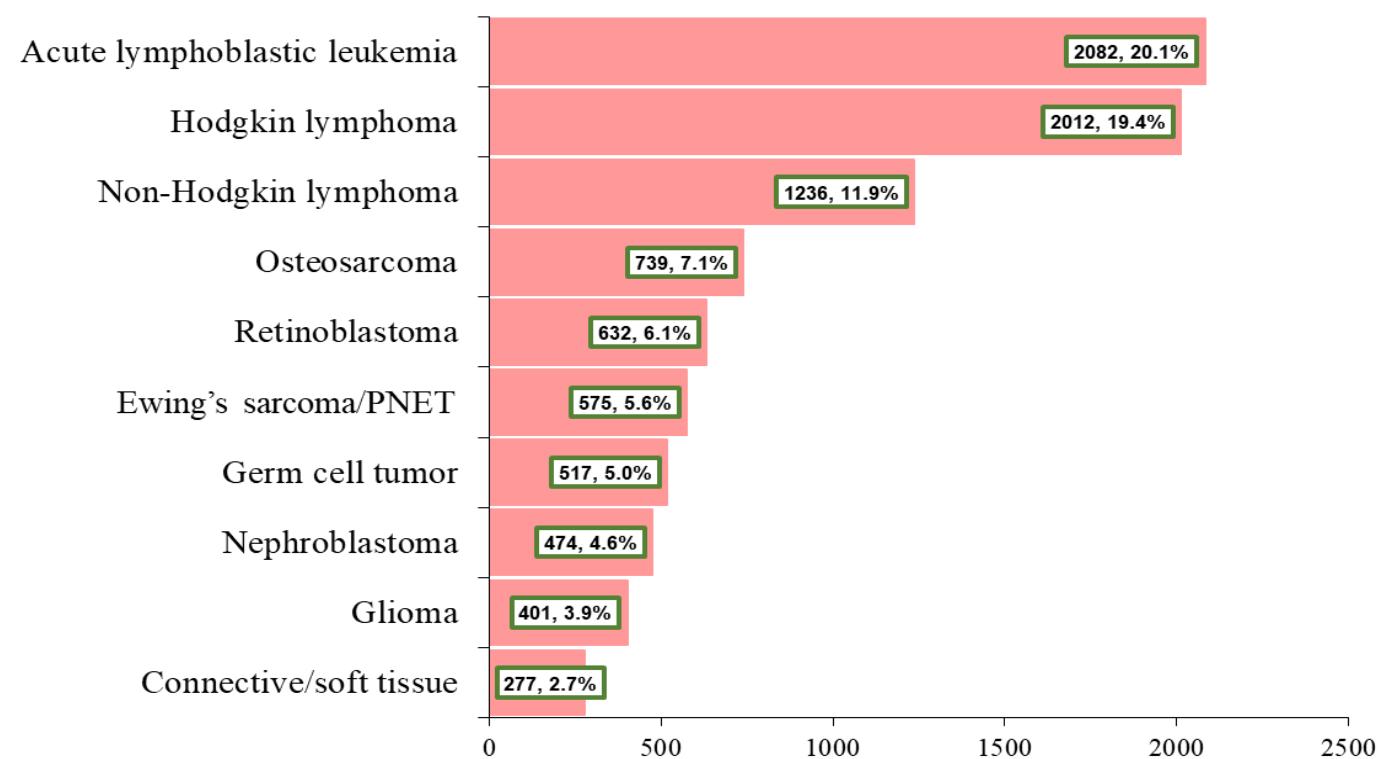
In children (<= 18 years), the most frequent cancers were acute lymphoblastic leukemia, Hodgkin lymphoma, and non-Hodgkin lymphoma (Table 6).

Table 6. Top 10 malignancies in children (<= 18 years (N=10,359)), in both sexes combined, Dec. 1994 to Dec. 2020.

Sr. No.	ICD Category	Count	%	Morphology Code^
1	Acute lymphoblastic leukemia	2,082	20.1	M983
2	Hodgkin lymphoma	2,012	19.4	M965-966
3	Non-Hodgkin lymphoma	1,236	11.9	M959, M967-972
4	Osteosarcoma	739	7.1	M918
5	Retinoblastoma	632	6.1	M951
6	Ewing's sarcoma/PNET	575	5.6	M9260, M9364
7	Germ cell tumor	517	5.0	M906 - M909
8	Nephroblastoma	474	4.6	M8960
9	Glioma	401	3.9	M938-M948
10	Connective/soft tissue	277	2.7	M880-M899, M904

[^] Classification of childhood cancers is based on tumor morphology using the ICD-O-3 coding scheme for childhood cancers.

Figure 5. Top 10 malignancies in children (<= 18 years), both sexes combined, Dec. 1994 to Dec. 2020.



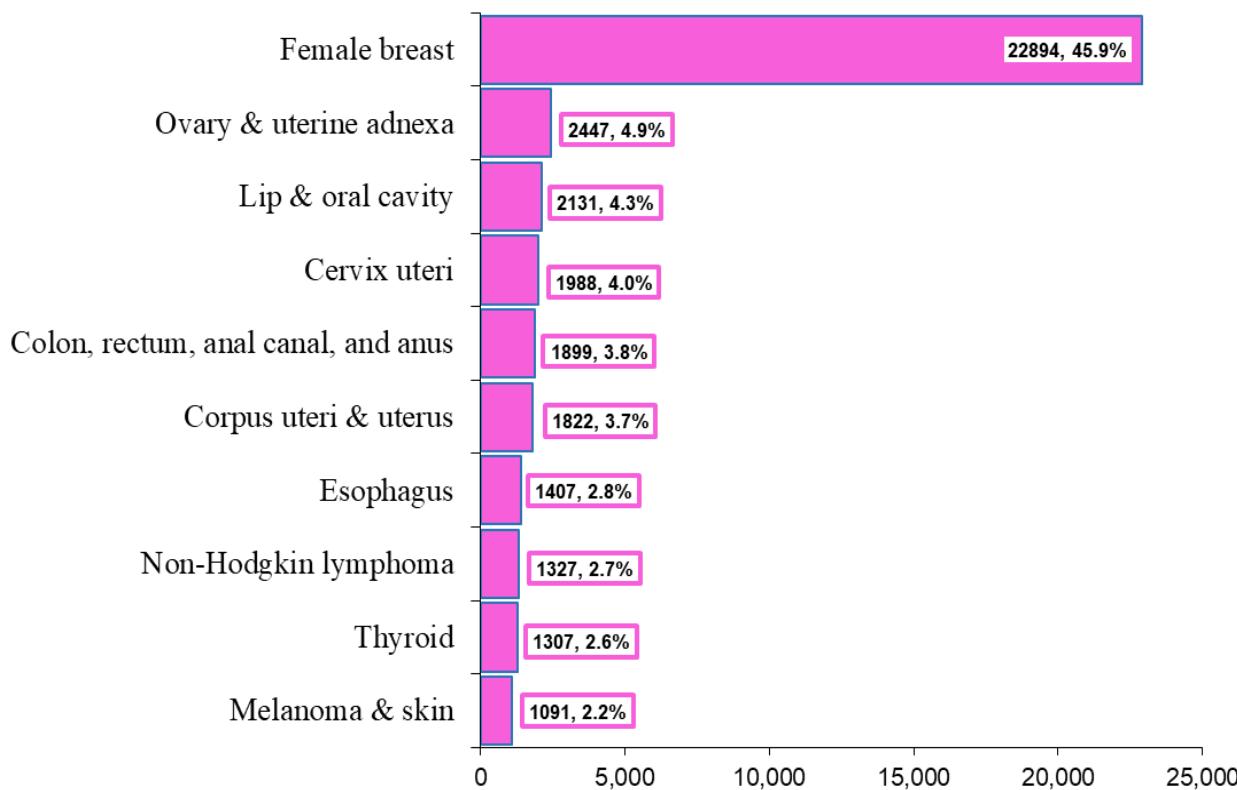
Data Source: Cancer Registry & Clinical Data Management, SKMCH&RC

The most frequent cancers, among adult females, were those of the breast, ovary & uterine adnexa, lip & oral cavity, cervix uteri, and colon, rectum, anal canal & anus (Table 7), whereas, among adult males, cancers of the colon, rectum, anal canal & anus, prostate, lip & oral cavity, non-Hodgkin lymphoma, and liver & intrahepatic bile ducts (Table 8).

Table 7. Top 10 malignancies in adult females (> 18 years (N=49,912)), Dec. 1994 to Dec. 2020.

Sr. No.	ICD Category	Count	Percentage	ICD-10-CM Code
1	Female breast	22,894	45.9	C50, D05
2	Ovary & uterine adnexa	2,447	4.9	C56
3	Lip & oral cavity	2,131	4.3	C00 – C08, C76.0, D00.0
4	Cervix uteri	1,988	4.0	C53, D06
5	Colon, rectum, anal canal, & anus	1,899	3.8	C18–C21, D01, C7A.02, C49.A
6	Corpus uteri & uterus	1,822	3.7	C54 – C55, C58, D07.0
7	Esophagus	1,407	2.8	C15, D00.1
8	Non-Hodgkin lymphoma	1,327	2.7	C82 – C86, C88.4
9	Thyroid	1,307	2.6	C73
10	Melanoma & skin	1,091	2.2	C43 – C44, D03 – D04

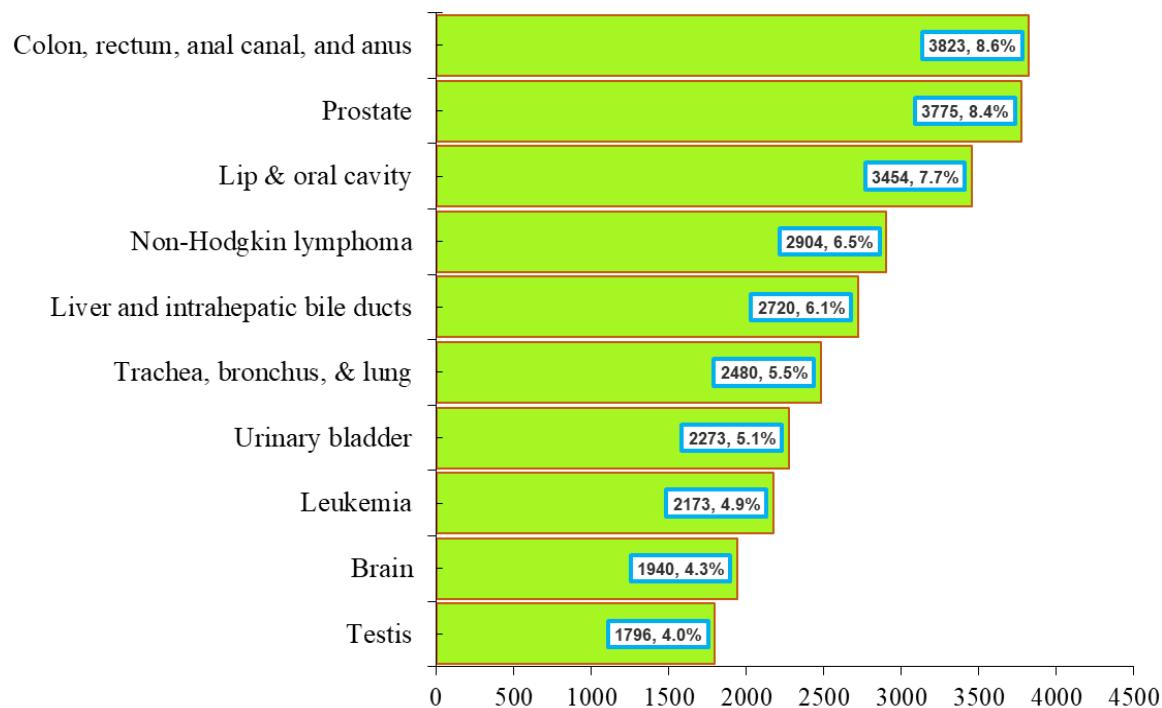
Figure 6. Top 10 malignancies in adult females (> 18 years), Dec. 1994 to Dec. 2020.



Data Source: Cancer Registry & Clinical Data Management, SKMCH&RC

Table 8. Top 10 malignancies in adult males (> 18 years (N=44,689)), Dec. 1994 to Dec. 2020.

Sr. No.	ICD Category	Count	Percentage	ICD-10-CM Code
1	Colon, rectum, anal canal, & anus	3,823	8.6	C18–C21, D01, C7A.02, C49.A
2	Prostate	3,775	8.4	C61, D07.5
3	Lip & oral cavity	3,454	7.7	C00 – C08, C76.0, D00.0
4	Non-Hodgkin lymphoma	2,904	6.5	C82 – C86, C88.4
5	Liver & intrahepatic bile ducts	2,720	6.1	C22
6	Trachea, bronchus, & lung	2,480	5.5	C33 – C34, D02.1-2, C7A.090
7	Urinary bladder	2,273	5.1	C67, D09.0
8	Leukemia	2,173	4.9	C91 – C95
9	Brain	1,940	4.3	C70 - C71
10	Testis	1,796	4.0	C62

Figure 7. Top 10 malignancies in adult males (> 18 years), Dec. 1994 to Dec. 2020.

Data Source: Cancer Registry & Clinical Data Management, SKMCH&RC

SUPPLEMENTAL INFORMATION

Table 9 shows the result stratified by primary site, age-group, and sex. According to this, cancers of the breast, leukemia, lymphoma, lip & oral cavity, and colon/rectum/anal canal/anus are the commonest site(s) for malignancies seen at the hospital.

Table 9. Distribution by sex, primary malignant site, and 5-year age-group, 1994-2020.**Female**

ICD-10-CM Code **	Primary site in females	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-74	75-	80-	85+	Total
C00	Lip	0	0	0	0	1	0	2	1	2	3	10	15	14	12	7	2	1	2	72
C01-C02, D00.07	Tongue	0	1	0	3	11	27	30	62	63	125	132	115	108	73	51	21	9	6	837
C03, D00.03	Gum	0	1	0	2	2	3	8	9	17	41	36	51	42	30	30	16	5	4	297
C04-C06, D00.02-06	Floor and other parts of the mouth	1	0	0	4	13	16	23	38	54	72	87	77	74	62	46	25	9	6	607
C07, C7A.098	Parotid gland	0	1	4	11	34	27	32	35	27	38	29	21	23	13	11	0	2	0	308
C08	Other salivary glands	0	0	0	1	4	2	4	5	3	4	1	1	1	4	0	0	0	0	30
C09-C10	Oropharynx	0	0	0	0	0	2	3	4	8	7	7	5	8	5	4	1	1	0	55
C11	Nasopharynx	1	1	11	23	38	35	28	32	28	33	25	22	13	8	4	1	0	0	303
C12-C13	Hypopharynx & pyriform sinus	0	0	0	5	11	23	27	59	50	49	56	42	46	23	18	3	1	2	415
C14	Other sites of lip, oral cavity & pharynx	0	0	0	0	0	1	0	0	0	4	2	1	7	1	0	1	0	0	17
C15, D00.1, C49.A1	Esophagus	0	0	0	4	16	36	70	126	210	211	209	204	141	94	49	20	13	8	1411
C16, C49.A2, C7A.092	Stomach	0	0	0	7	14	28	58	75	95	71	105	116	82	57	22	8	5	1	744
C17, C7A.01, C49.A3	Small intestine	0	0	0	2	3	1	8	10	5	12	24	18	15	6	3	2	0	0	109
C18, D01.0, C7A.02, C49.A4	Colon	0	0	2	6	27	45	60	76	67	80	98	116	93	48	38	13	9	2	780
C19	Rectosigmoid	0	0	1	2	6	7	13	9	12	15	14	17	14	9	12	3	0	0	134
C20, D01.2, C7A.02, C49.A5	Rectum	0	1	1	13	64	94	81	81	68	81	83	82	78	46	26	17	4	4	824
C21, D01.3	Anal canal & anus	0	0	0	5	13	20	21	18	15	18	21	15	15	11	10	4	1	0	187
C22, C49.A9, C7A.098	Liver & intrahepatic bile ducts	26	1	4	3	2	2	9	32	39	103	181	217	204	148	84	39	8	2	1104
C23-C24, C7A.098, D01.5	Gall bladder & extrahepatic bile ducts	0	0	0	1	2	6	16	30	76	92	142	133	134	95	71	23	16	7	844
C25, C7A.098	Pancreas	0	0	0	2	2	6	10	20	21	50	56	69	72	67	48	19	12	3	457
C26, D01.40	Other & ill-defined digestive organs	0	0	0	0	0	1	0	2	2	1	0	1	1	1	0	0	0	0	9
C30-C31, C7A.098	Nasal cavity & sinuses	1	0	4	9	5	9	16	19	15	21	37	22	33	10	8	3	2	0	214
C32, C7A.098, D02.0	Larynx	0	1	0	1	4	3	6	10	15	12	20	31	27	9	9	4	2	2	156
C33-C34, C7A.090, D02.2	Trachea, bronchus, & lung	1	1	1	1	1	19	29	28	46	43	78	79	87	72	46	18	17	3	570
C37-C39, C7A.091, C7A.098	Thymus, heart, mediastinum, & pleura	4	0	1	1	4	7	4	8	7	5	7	0	5	3	4	1	0	0	61
C40-C41	Bone & articular cartilage	24	96	189	198	91	50	30	25	16	9	17	14	5	5	1	2	0	0	772
C43-C44, C7A.098, D03-D04	Melanoma & other malignant neoplasm of skin	0	1	2	13	25	34	48	67	75	96	125	133	156	115	104	49	41	18	1102
C47, C49	Peripheral nerves & connective tissues	41	20	34	69	61	88	77	90	64	57	54	44	46	34	23	13	4	1	820
C48	Retropertitoneum	2	1	2	1	1	2	1	5	3	3	4	3	1	2	0	0	0	0	31
C50, C7A.098, D05	Breast	0	1	1	14	192	837	1927	3094	3674	3599	3314	2499	1769	967	608	244	115	49	22904
C51-C52, C7A.098, D07.1-2	Vulva & vagina	8	0	2	0	3	11	13	20	17	25	35	38	47	22	21	10	2	0	274
C53, D06	Cervix	0	0	2	12	10	33	93	221	291	313	347	249	217	111	60	25	9	6	1999
C54-C55, C58	Corpus, uterus, & placenta	0	0	3	6	35	57	70	98	122	169	260	296	337	201	113	43	17	2	1829
C56, C7A.098	Ovary	7	31	86	133	166	176	191	216	268	335	345	266	227	110	61	22	11	6	2657
C57, D07.39	Other female genital organs	0	0	1	1	0	1	2	2	1	5	0	1	1	0	2	0	1	0	18
C64-C66, C7A.093	Kidney & ureter	148	55	8	11	14	26	26	40	40	70	74	90	81	56	21	13	5	1	779
C67, C7A.098, D09.0	Urinary bladder	3	1	2	0	1	6	14	24	31	48	46	66	61	48	34	19	8	6	418
C68	Other & unspecified urinary organs	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	3
C69, D09.2	Eye & adnexa	246	37	9	3	6	1	3	1	4	5	3	2	5	2	2	0	2	0	331
C70-C71	Brain & meninges	20	44	28	44	86	93	115	111	87	96	82	76	60	43	17	7	3	0	1012
C72	Spinal cord	3	4	4	1	4	7	3	12	2	5	4	3	1	3	0	0	0	0	56
C73, C7A.098, D09.3	Thyroid	0	3	8	54	135	200	202	179	135	138	83	78	60	37	32	5	6	2	1357
C74	Adrenal gland	10	2	1	0	5	6	2	3	7	5	2	4	2	1	1	0	0	0	51
C75	Other endocrine glands	2	1	2	1	0	4	1	0	1	1	0	2	2	0	1	0	0	0	18
C76, C49.A9, C7A.098	Other & ill-defined sites	52	11	3	7	13	5	2	8	8	11	10	9	7	6	5	3	0	2	162
C80, C7A.00	Unknown primary	2	2	2	6	9	14	22	47	46	87	116	94	99	69	55	25	7	5	707
C81	Hodgkin lymphoma	33	186	87	150	207	163	124	102	45	37	18	16	15	12	0	3	1	1	1200
C82-C87, C88.4	Non-Hodgkin lymphoma	70	106	71	74	123	135	141	182	108	127	123	100	94	88	53	23	10	5	1633
C90	Multiple myeloma & immuno. neoplasms	0	0	0	0	3	2	3	10	13	31	46	40	23	19	12	2	0	0	204
C91	Lymphoid leukemia	396	152	65	61	44	30	20	26	18	26	41	45	22	9	9	1	0	0	965
C92	Myeloid leukemia	22	34	55	77	83	104	110	114	80	77	67	41	22	15	10	2	0	0	913
C93-C95	Other specified leukemia	2	0	0	0	1	0	2	2	0	4	2	1	2	1	1	0	0	1	19
C96, C88.0-3, D45, D47.1-D47.9	Other lymph. histiocytic & hemat. tissue	10	4	3	1	0	2	4	1	2	3	4	4	5	3	1	0	0	0	47
D32-33, D35.2-4, D42.0-D43.9, D44.3-D44.5*	Other reportable CNS neoplasms	5	6	10	14	51	62	82	63	53	47	35	27	22	17	8	2	1	2	507
D46	Myelodysplastic syndrome & refractory anemia	0	0	0	0	0	0	1	0	1	3	0	4	4	2	2	1	0	0	18
Total		1140	806	709	1057	1646	2569	3887	5552	6158	6624	6718	5715	4730	2905	1857	758	360	160	53351

Male

ICD-10-CM Code **	Primary site in males	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-74	75-	80-	85+	Total
C00	Lip	0	0	0	2	3	4	7	13	17	12	31	27	24	26	14	8	0	4	192
C01-C02, D00.07	Tongue	2	2	0	6	14	27	72	115	138	156	181	155	158	103	65	30	16	8	1248
C03, D00.03	Gum	0	1	1	3	6	9	21	38	41	67	92	88	107	56	45	18	9	3	605
C04-C06, D00.02-06	Floor and other parts of the mouth	0	0	2	1	9	29	48	94	120	163	159	128	107	65	52	33	5	5	1020
C07, C7A.098	Parotid gland	1	2	5	11	21	32	35	33	29	60	42	30	31	16	12	13	5	3	381
C08	Other salivary glands	0	0	0	0	2	1	1	1	3	7	10	3	5	4	1	0	0	0	38
C09-C10	Oropharynx	0	1	0	0	0	4	4	13	11	12	9	10	19	6	6	3	0	2	100
C11	Nasopharynx	2	3	32	47	70	43	56	71	71	88	98	75	55	41	18	7	3	1	781
C12-C13	Hypopharynx & pyriform sinus	0	0	0	5	19	20	36	43	43	51	47	46	63	41	29	20	8	1	472
C14	Other sites of lip, oral cavity, pharynx	0	0	0	0	0	1	2	2	1	2	0	4	3	0	1	0	0	0	16
C15, C49.A1, D00.1	Esophagus	0	1	0	8	24	48	74	113	150	177	202	203	190	141	112	44	17	11	1515
C16, C49.A2, C7A.092	Stomach	0	0	1	3	20	54	64	114	167	213	233	251	231	162	120	47	18	5	1703
C17, C7A.01, C49.A3	Small intestine	0	1	1	4	5	8	16	24	21	17	20	30	26	13	10	5	1	0	202
C18, D01.0, C7A.02, C49.A4	Colon	0	2	9	22	46	86	107	153	206	185	192	140	164	94	82	30	17	6	1541
C19	Rectosigmoid	0	0	2	9	16	20	23	32	21	24	27	21	29	23	11	7	5	0	270
C20, C7A.02, C49.A5, D01.2	Rectum	0	1	6	34	128	166	189	187	153	166	163	145	140	121	59	34	15	4	1711
C21, D01.3	Anal canal & anus	0	0	0	4	16	16	40	42	48	40	32	39	28	35	8	9	5	0	362
C22, C49.A9, C7A.098	Liver & intrahepatic bile ducts	48	7	4	5	8	14	29	66	117	275	433	491	503	377	248	105	40	12	2782
C23-C24, C7A.098, D01.5	Gall Bladder & extrahepatic bile ducts	0	0	0	1	3	6	21	30	46	65	87	103	101	62	49	22	10	6	612
C25, C7A.098	Pancreas	0	2	0	3	5	8	19	25	61	66	86	113	129	98	53	30	14	8	720
C26, D01.40	Other & ill-defined digestive organs	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0	5	
C30-C31, C7A.098	Nasal cavity & sinuses	1	1	3	7	12	26	25	22	42	33	45	26	40	24	19	4	3	2	335
C32, C7A.098, D02.0	Larynx	0	0	0	1	5	10	31	60	89	107	170	207	214	179	132	70	32	12	1319
C33-C34, C7A.090, D02.2	Trachea, bronchus, & lung	0	0	2	3	9	20	51	64	111	181	264	329	443	429	288	191	73	28	2486
C37-C39, C7A.091, C7A.098	Thymus, heart, & mediastinum	6	3	7	14	16	18	16	18	19	17	19	9	9	6	5	1	0	1	184
C40-C41	Bone & articular cartilage	25	94	315	420	206	90	59	44	25	25	19	18	16	8	4	2	1	0	1371
C43-C44, C7A.098, D03-D04	Melanoma & other malignant neoplasm of skin	0	6	3	8	33	58	76	92	118	135	186	192	212	193	170	106	70	48	1706
C47, C49	Peripheral nerves & connective tissues	55	36	44	91	156	138	131	96	102	70	92	77	82	61	43	17	13	3	1307
C48	Retroperitoneum	8	2	1	2	6	8	5	5	2	7	2	4	5	3	1	2	0	0	63
C50, C7A.098, D05	Breast	0	0	0	0	2	3	7	7	17	24	19	30	30	15	18	11	1	1	185
C60	Penis	0	0	0	0	1	1	2	1	4	2	2	5	11	2	4	3	0	0	38
C61, C7A.098	Prostate	0	1	0	1	0	3	4	5	14	67	206	390	736	898	767	407	191	86	3776
C62-C63, C7A.098, D07.6	Testis & other male genital organs	107	5	13	123	357	444	371	239	154	81	56	27	14	11	1	3	1	0	2007
C64-C66, C7A.093	Kidney & ureter	227	66	12	9	19	23	51	102	117	163	192	142	172	91	62	36	16	5	1505
C67, C7A.098, D09.0	Urinary bladder	7	1	2	2	15	27	38	118	175	247	260	346	327	305	230	113	43	31	2287
C68	Other & unspecified urinary organs	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	3	
C69, D09.2	Eye and adnexa	309	57	7	4	3	1	8	6	8	7	7	4	9	7	4	3	3	1	448
C70-C71	Brain & meninges	32	90	83	82	169	229	288	250	227	208	156	142	116	67	41	14	4	3	2201
C72	Spinal cord	7	3	1	8	5	19	14	16	8	9	7	3	5	0	0	0	0	105	
C73, C7A.098, D09.3	Thyroid	0	1	6	27	62	82	70	84	63	60	57	52	36	29	21	7	3	1	661
C74	Adrenal gland	14	6	3	0	0	3	6	5	8	5	1	2	1	3	0	0	0	0	57
C75	Other endocrine glands	2	3	2	1	3	6	3	1	0	1	1	0	2	1	0	0	0	0	26
C76, C49.A9, C7A.098	Other & ill-defined sites	43	11	8	4	25	24	17	10	16	21	24	7	15	14	6	4	3	2	254
C80, C7A.00	Unknown primary	1	3	2	7	19	34	38	43	65	83	103	102	121	103	87	46	21	11	889
C81	Hodgkin lymphoma	162	841	359	339	404	332	284	243	122	110	61	33	44	26	10	5	4	1	3380
C82-C87, C88.4	Non-Hodgkin lymphoma	173	419	169	227	304	341	388	413	260	264	228	171	185	118	98	41	23	12	3834
C90	Multiple myeloma & immuno. neoplasms	0	0	0	1	1	3	9	20	44	44	63	69	40	35	13	9	6	2	359
C91	Lymphoid leukemia	697	371	194	198	168	84	46	46	68	81	124	121	37	27	20	10	8	0	2300
C92	Myeloid leukemia	28	62	96	125	173	213	194	175	139	107	84	55	28	25	25	6	2	1	1538
C93-C95	Other specified leukemia	0	0	0	0	3	1	0	5	8	6	3	2	1	2	1	0	0	0	32
C96, C88.0-3, D45, D47.1-D47.9	Other lymphatic, histiocytic, & hematopoietic tissue	21	10	9	3	4	3	9	3	2	6	4	3	3	2	1	2	0	0	85
D32-33, D35.2-4, D42.0-D43.9, D44.3-D44.5*	Other reportable CNS neoplasms	3	12	13	26	63	70	68	65	46	68	43	27	14	24	12	5	0	1	560
D46	Myelodysplastic syndrome & refractory anemia	3	3	1	1	0	0	1	2	1	3	0	6	5	3	0	2	0	0	32
Total		1985	2130	1418	1902	2659	2910	3173	3468	3539	4086	4647	4700	5089	4197	3081	1583	711	331	51609

**Diseases are listed according to the International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes.

*Non-malignant primary intracranial and CNS tumors are also included in the count.

Table 10. Count and percentage of cancer cases by province, district, and sex, 1994-2020.

Province/Country	District	Female	Male	Total
Punjab	Attock	203 0.3%	175 0.2%	378 0.5%
	Bahawalnagar	429 0.6%	445 0.6%	874 1.2%
	Bahawalpur	341 0.5%	410 0.6%	751 1.1%
	Bhakkar	305 0.4%	359 0.5%	664 0.9%
	Chakwal	235 0.3%	240 0.3%	475 0.6%
	Chiniot	38 0.1%	46 0.1%	84 0.2%
	D.G.Khan	330 0.5%	490 0.7%	820 1.2%
	Faisalabad	2358 3.3%	2137 3.0%	4495 6.3%
	Gujranwala	2370 3.3%	2032 2.9%	4402 6.2%
	Gujrat	1122 1.6%	974 1.4%	2096 3.0%
	Hafizabad	273 0.4%	248 0.3%	521 0.7%
	Jehlum	366 0.5%	278 0.4%	644 0.9%
	Jhang	611 0.9%	585 0.8%	1196 1.7%
	Kasur	709 1.0%	634 0.9%	1343 1.9%
	Khanewal	379 0.5%	416 0.6%	795 1.1%
	Khushab	304 0.4%	338 0.5%	642 0.9%
	Lahore	15941 22.4%	11791 16.6%	27732 39.0%
	Layyah	199 0.3%	258 0.4%	457 0.7%
	Lodhran	82 0.1%	134 0.2%	216 0.3%
	Mandi Bahuddin	347 0.5%	336 0.5%	683 1.0%
	Mianwali	457 0.6%	555 0.8%	1012 1.4%
	Multan	1064 1.5%	902 1.3%	1966 2.8%
	Muzaffargarh	256 0.4%	386 0.5%	642 0.9%
	Nankana Sahib	166 0.2%	126 0.2%	292 0.4%
	Narowal	322 0.5%	278 0.4%	600 0.9%
	Okara	738 1.0%	703 1.0%	1441 2.0%
	Pakpattan	361 0.5%	325 0.5%	686 1.0%
	Rahim Yar Khan	469 0.7%	543 0.8%	1012 1.5%
	Rajanpur	117 0.2%	173 0.2%	290 0.4%
	Rawalpindi	843 1.2%	796 1.1%	1639 2.3%
	Sahiwal	802 1.1%	668 0.9%	1470 2.1%
	Sargodha	1172	966	2138

	1.6%	1.4%	3.0%
Sheikhupura	1006 1.4%	877 1.2%	1883 2.6%
Sialkot	1898 2.7%	1624 2.3%	3522 5.0%
T.T. Singh	463 0.7%	430 0.6%	893 1.3%
Unknown Punjab	706 1.0%	807 1.1%	1513 2.1%
Vehari	447 0.6%	442 0.6%	889 1.2%
Total	38229 53.7%	32927 46.3%	71156 100.0%
Khyber Pakhtunkhwa & FATA	Abbottabad 1.2%	289 1.4%	545 2.6%
Bajaur	160 0.8%	297 1.4%	457 2.2%
Bannu	278 1.3%	397 1.9%	675 3.2%
Batgram	35 0.2%	77 0.4%	112 0.6%
Bunair	1 0.00%	2 0.00%	3 0.00%
Buner	93 0.4%	190 0.9%	283 1.3%
Charsadda	484 2.3%	640 3.1%	1124 5.4%
Chitral	65 0.3%	116 0.6%	181 0.9%
Dera Ismail Khan	292 1.4%	310 1.5%	602 2.9%
Hangu	165 0.8%	182 0.9%	347 1.7%
Haripur	134 0.6%	143 0.7%	277 1.3%
Karak	133 0.6%	148 0.7%	281 1.3%
Khyber	171 0.8%	340 1.6%	511 2.4%
Kohat	333 1.6%	388 1.9%	721 3.5%
Kohistan	18 0.1%	55 0.3%	73 0.4%
Kurram	120 0.6%	196 0.9%	316 1.5%
Lakki Marwat	161 0.8%	182 0.9%	343 1.7%
Lower Dir	454 2.2%	596 2.9%	1050 5.1%
Malakand P/A	289 1.4%	327 1.6%	616 3.0%
Mansehra	187 0.9%	293 1.4%	480 2.3%
Mardan	827 4.0%	1046 5.0%	1873 9.0%
Mohmand	97 0.5%	115 0.6%	212 1.1%
N. Waziristan	105 0.5%	249 1.2%	354 1.7%
Nowshera	486	502	988

	2.3%	2.4%	4.7%	
Orakzai	29 0.1%	67 0.3%	96 0.4%	
Parachinar	26 0.1%	34 0.2%	60 0.3%	
Peshawar	1995 9.5%	1988 9.5%	3983 19.0%	
Risalpur	7 0.0%	1 0.0%	8 0.0%	
S. Waziristan	111 0.5%	199 1.0%	310 1.5%	
Shangla	58 0.3%	108 0.5%	166 0.8%	
Swabi	398 1.9%	523 2.5%	921 4.4%	
Swat	809 3.9%	1126 5.4%	1935 9.3%	
Tank	59 0.3%	87 0.4%	146 0.7%	
Unknown Khyber Pakhtunkhwa	118 0.6%	220 1.1%	338 1.7%	
Upper Dir	175 0.8%	330 1.6%	505 2.4%	
Total	9129 43.7%	11763 56.3%	20892 100.0%	
Sindh	Badin	10 0.3%	28 0.8%	38 1.1%
	Dadu	13 0.4%	30 0.8%	43 1.2%
	Ghotki	48 1.4%	73 2.1%	121 3.5%
	Hyderabad	125 3.5%	111 3.1%	236 6.6%
	Jacobabad	39 1.1%	78 2.2%	117 3.3%
	Jamshoro	6 0.2%	6 0.2%	12 0.4%
	Karachi	1321 37.3%	895 25.2%	2216 62.5%
	Khairpur	16 0.5%	23 0.6%	39 1.1%
	Larkana	20 0.6%	37 1.0%	57 1.6%
	Malir	13 0.4%	18 0.5%	31 0.9%
	Mirpur Khas	22 0.6%	18 0.5%	40 1.1%
	Naushahro Feroze	17 0.5%	23 0.6%	40 1.1%
	Nawab Shah	18 0.5%	33 0.9%	51 1.4%
	Sanghar	26 0.7%	39 1.1%	65 1.8%
	Shikarpur	21 0.6%	19 0.5%	40 1.1%
	Sukkur	68 1.9%	67 1.9%	135 3.8%
	Tharparkar	1 0.0%	1 0.0%	2 0.0%

	Thatta	17 0.5%	13 0.4%	30 0.9%
	Umerkot	8 0.2%	7 0.2%	15 0.4%
	Unknown Sindh	93 2.6%	125 3.5%	218 6.1%
	Total	1902 53.6%	1644 46.4%	3546 100.0%
Balochistan	Awaran	0 0.0%	1 0.1%	1 0.1%
	Barkhan	3 0.2%	18 1.2%	21 1.3%
	Bolan	5 0.3%	7 0.4%	12 0.7%
	Chaghi	11 0.7%	24 1.5%	35 2.2%
	Dera Bugti	6 0.4%	19 1.2%	25 1.6%
	Gwadar	5 0.3%	3 0.2%	8 0.5%
	Jafarabad	9 0.6%	34 2.2%	43 2.8%
	Jhal Magsi	0 0.0%	2 0.1%	2 0.1%
	Kalat	3 0.2%	8 0.5%	11 0.7%
	Kech	9 0.6%	13 0.8%	22 1.4%
	Kharan	1 0.1%	3 0.2%	4 0.3%
	Khuzdar	9 0.6%	8 0.5%	17 1.1%
	Killa Abdullah	36 2.3%	58 3.7%	94 6.0%
	Killa Saifullah	10 0.6%	15 1.0%	25 1.6%
	Kohlu	4 0.3%	8 0.5%	12 0.8%
	Lasbelas	2 0.1%	10 0.6%	12 0.7%
	Loralai	64 4.1%	119 7.6%	183 11.7%
	Mastung	5 0.3%	6 0.4%	11 0.7%
	Nasirabad	8 0.5%	24 1.5%	32 2.0%
	Panjgur	4 0.3%	0 0.0%	4 0.3%
	Pishin	27 1.7%	44 2.8%	71 4.5%
	Quetta	304 19.4%	405 25.9%	709 45.3%
	Sibi	12 0.8%	22 1.4%	34 2.2%
	Unknown Balochistan	20 1.3%	39 2.5%	59 3.8%
	Zhob	34 2.2%	55 3.5%	89 5.7%
	Ziarat	15	14	29

		1.0%	0.9%	1.9%
	Total	606	959	1565
		38.7%	61.3%	100.0%
Gilgit-Baltistan	Astore	2 1.1%	2 1.1%	4 2.1%
	Diamir	20 10.7%	34 18.2%	54 28.9%
	Ghanche	3 1.6%	15 8.0%	18 9.6%
	Ghizer	1 0.5%	4 2.1%	5 2.7%
	Gilgit	23 12.3%	32 17.1%	55 29.4%
	Hunza-Nagar	7 3.7%	18 9.6%	25 13.4%
	Kharmang	1 0.5%	0 0.0%	1 0.5%
	Shigar	2 1.1%	6 3.2%	8 4.3%
	Skardu	2 1.1%	15 8.0%	17 9.1%
	Total	61 32.6%	126 67.4%	187 100.0%
FEDERAL CAPITAL	Islamabad	694 57.4%	515 42.6%	1209 100.0%
	Total	694 57.4%	515 42.6%	1209 100.0%
Azad Jammu & Kashmir	Bagh	54 5.3%	71 7.0%	125 12.3%
	Bhimber	74 7.3%	81 7.9%	155 15.2%
	Kotli	43 4.2%	62 6.1%	105 10.3%
	Mirpur Khas	172 16.9%	132 12.9%	304 29.8%
	Muzaffarabad	73 7.2%	75 7.4%	148 14.6%
	Poonch	50 4.9%	70 6.9%	120 11.8%
	Sudhnoti	12 1.2%	21 2.1%	33 3.2%
	Unknown Azad Jammu & Kashmir	12 1.2%	18 1.8%	30 3.0%
	Total	490 48.0%	530 52.0%	1020 100.0%
Afghanistan	Districts are not listed	2168 41.5%	3052 58.5%	5220 100.0%
Other countries	Districts are not listed	17 42.5%	23 57.5%	40 100.0%
Districts and provinces not defined		55 44.0%	70 56.0%	125 100.0%
Grand Total		53351 50.8%	51609 49.2%	104960 100.0%