

COLLECTIVE CANCER REGISTRY REPORT-DECEMBER 1994 TO DECEMBER 2021: 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 119,456 neoplasms, 56,458 were seen in males (47.3%) and 62,998 (52.7%) in females registered at the aforementioned facilities in Pakistan in 27 years extending from December 29, 1994, till December 31, 2021. A total of 107,985 (90.4%) tumors were found in adults, whereas 11,471 (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. 2021.

Behavior	Age-group	Registered patients (114,941)	Reported neoplasm* (119,456)
Malignant~	Adults	98,857	100,860
	Pediatrics	11,006	11,081
	Total	109,863	111,941
Benign^ & uncertain behavior	Adults	6,592	7,124
	Pediatrics	370	391
	Total	6,962	7,515

*The difference in the number of registered patients and reported neoplasms is attributed to multiple malignancies and benign neoplasms diagnosed in 2,078 and 553 patients, respectively. Further, 1,884 patients have both malignant & benign neoplasms simultaneously.

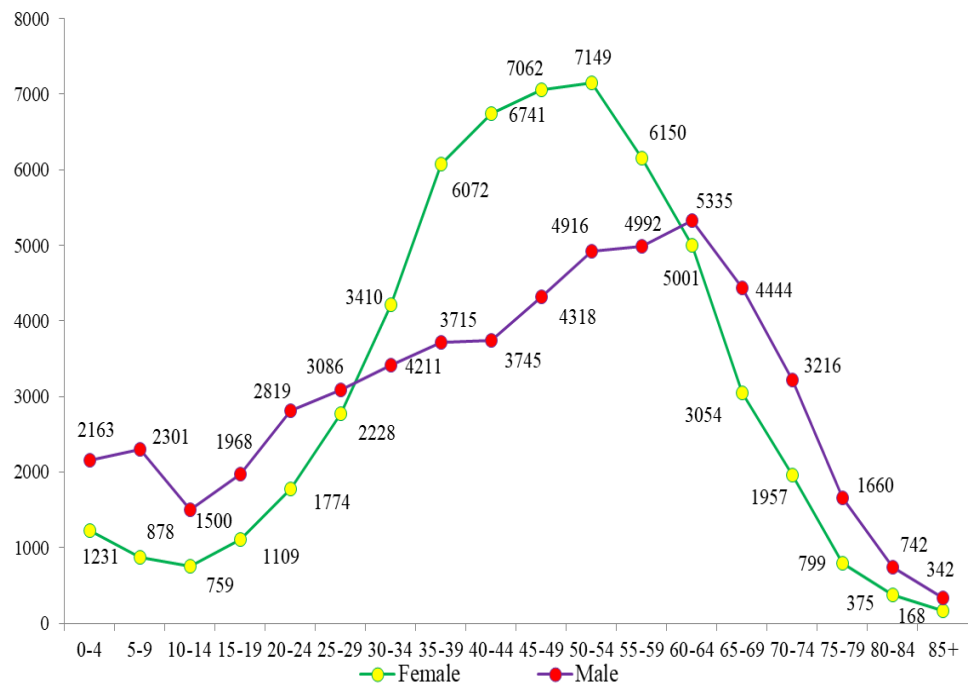
~Cases with behavior codes /3 and /2 are considered malignant cases.

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

Table 2. Malignancies registered at SKMCH&RC from Dec. 1994 to Dec. 2021, stratified by sex and age group.

Age-range	Female	Male	Total
0-4	1231	2163	3394
5-9	878	2301	3179
10-14	759	1500	2259
15-19	1109	1968	3077
20-24	1774	2819	4593
25-29	2779	3086	5865
30-34	4211	3410	7621
35-39	6072	3715	9787
40-44	6741	3745	10486
45-49	7062	4318	11380
50-54	7149	4916	12065
55-59	6150	4992	11142
60-64	5001	5335	10336
65-69	3054	4444	7498
70-74	1957	3216	5173
75-79	799	1660	2459
80-84	375	742	1117
85+	168	342	510
Total	57269	54672	111941

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



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

Demographics

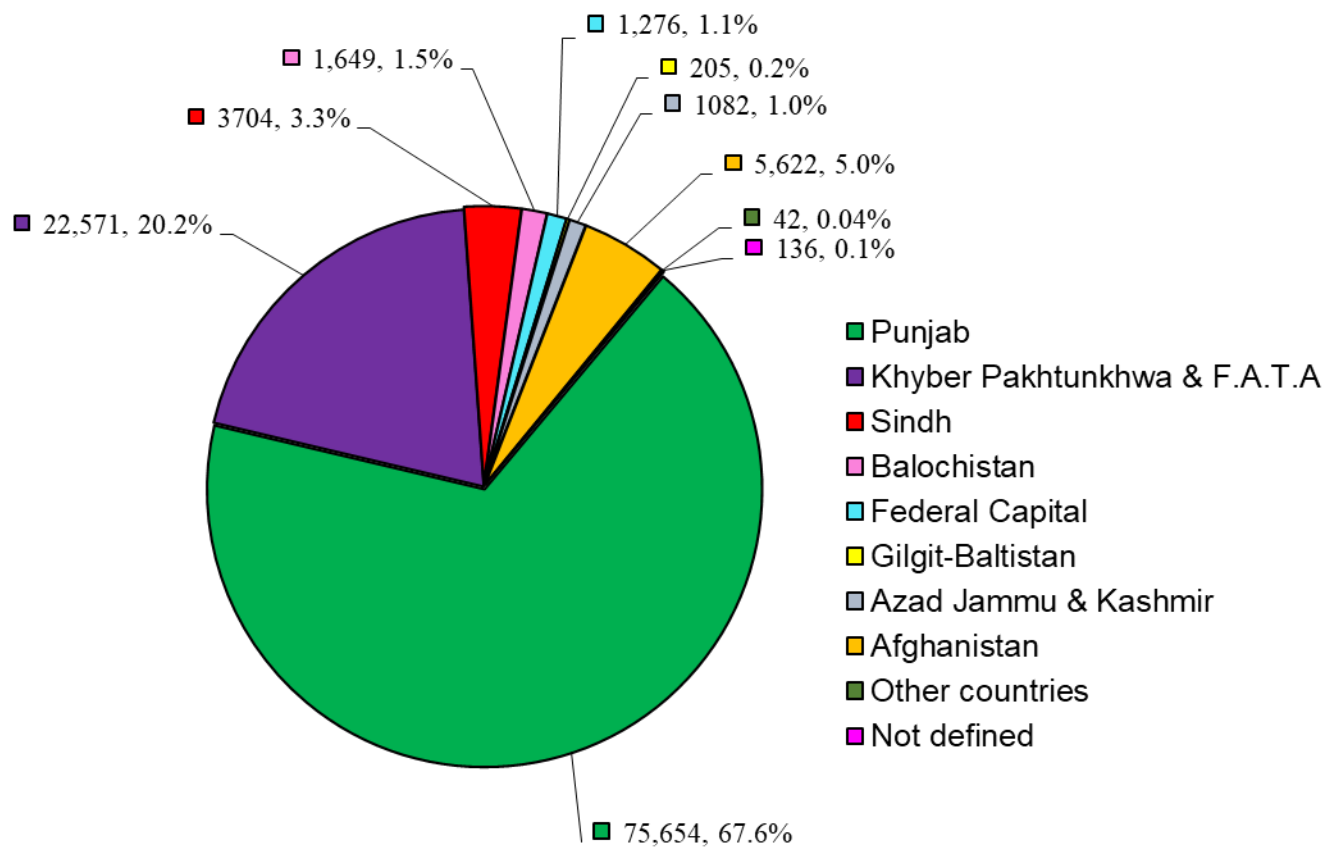
Of the 111,941 malignancies, nearly 67.6% (75,654) belonged to the province of Punjab and approximately 20.2% (22,571) to Khyber Pakhtunkhwa (NWFP) & FATA*. The fact that the geographic area of residence of a vast majority of patients was Punjab can be explained by the fact that the oldest SKMCH&RC hospital is situated in the provincial capital of Punjab and that, this province accounts 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. 2021.

Demographic area	Malignancies (N=111,941)	Percent (%)
Punjab	75,654	67.6
Khyber Pakhtunkhwa including FATA*	22,571	20.2
Sindh	3,704	3.3
Balochistan	1,649	1.5
Federal Capital	1,276	1.1
Gilgit-Baltistan	205	0.2
Azad Jammu & Kashmir	1082	1.0
Afghanistan	5,622	5.0
Other countries	42	0.04
Not defined	136	0.1

* The administrative unit of the Federally Administered Tribal Areas (FATA) 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. 2021.



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

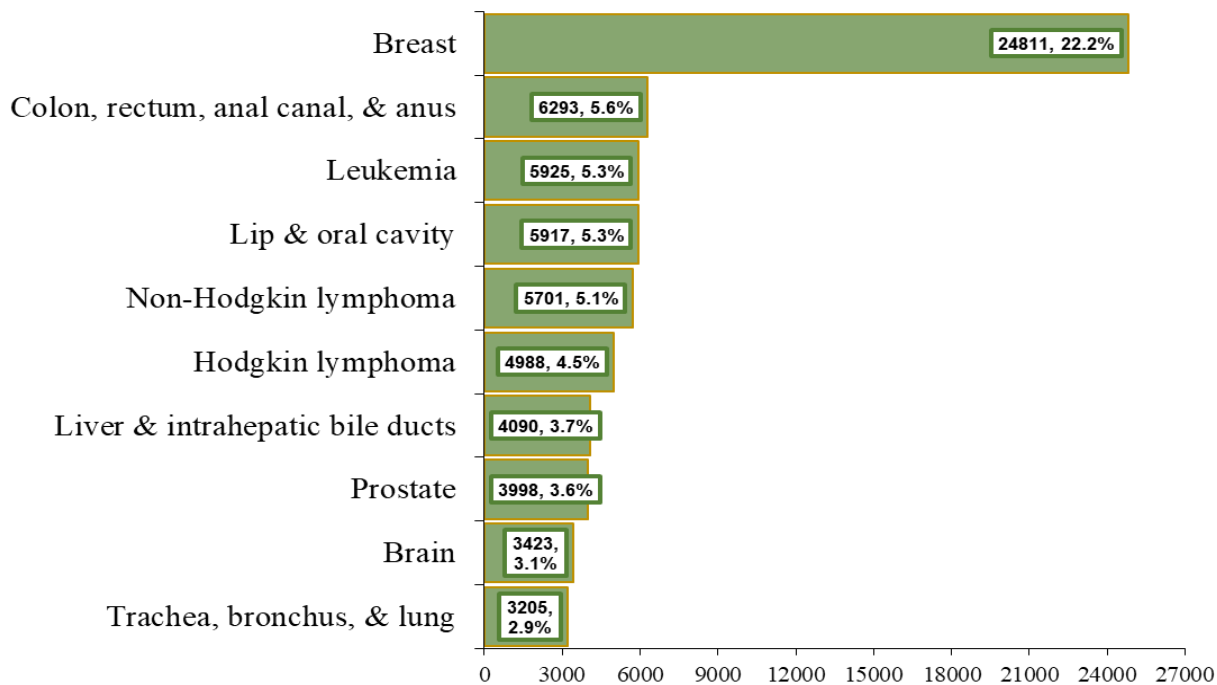
Distribution of malignancies

Tables 4-8 display lists of the top 10 cancers registered at the hospital during the 27 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/anus cancers, leukemia, lip & 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=111,941), at SKMCH&RC, Dec. 1994 to Dec. 2021.

Sr. No.	ICD Category	Count	Percentage	ICD-10-CM Code
1	Breast	24,811	22.2	C50, D05
2	Colon, rectum, anal canal, & anus	6,293	5.6	C18–C21, D01, C7A.02, C49.A
3	Leukemia	5,925	5.3	C91 – C95
4	Lip & oral cavity	5,917	5.3	C00 – C08, C76.0, D00.0
5	Non-Hodgkin lymphoma	5,701	5.1	C82 – C87, C88.4
6	Hodgkin lymphoma	4,988	4.5	C81
7	Liver & intrahepatic bile ducts	4,090	3.7	C22
8	Prostate	3,998	3.6	C61, D07.5
9	Brain	3,423	3.1	C70 - C71
10	Trachea, bronchus, & lung	3,205	2.9	C33 – C34, D02.1-2, C7A.090

Figure 3. Top 10 malignancies among all age groups, both sexes combined at SKMCH&RC, Dec. 1994 to Dec. 2021.



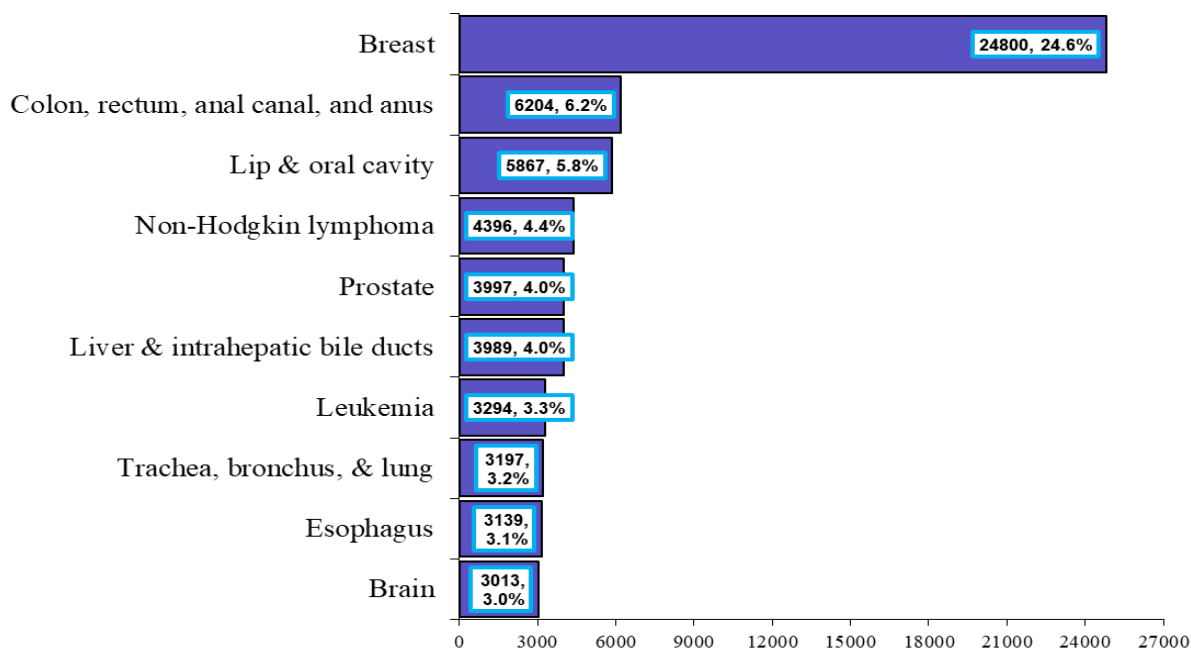
Data Source: Cancer Registry & Clinical Data Mangement, SKMCH&RC

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=100,860)), in both sexes combined, Dec. 1994 to Dec. 2021.

Sr. No.	ICD Category	Count	Percentage	ICD-10-CM Code
1	Breast	24,800	24.6	C50, D05
2	Colon, rectum, anal canal, and anus	6,204	6.2	C18–C21, D01, C7A.02, C49.A
3	Lip & oral cavity	5,867	5.8	C00 – C08, C76.0, D00.0
4	Non-Hodgkin lymphoma	4,396	4.4	C82 – C86, C88.4
5	Prostate	3,997	4.0	C61, D07.5
6	Liver & intrahepatic bile ducts	3,989	4.0	C22
7	Leukemia	3,294	3.3	C91 – C95
8	Trachea, bronchus, & lung	3,197	3.2	C33 – C34, D02.1-2, C7A.090
9	Esophagus	3,139	3.1	C15, D00.1
10	Brain	3,013	3.0	C70 - C71

Figure 4. Top 10 malignancies among adults (> 18 years) in both sexes combined, Dec. 1994 to Dec. 2021.



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

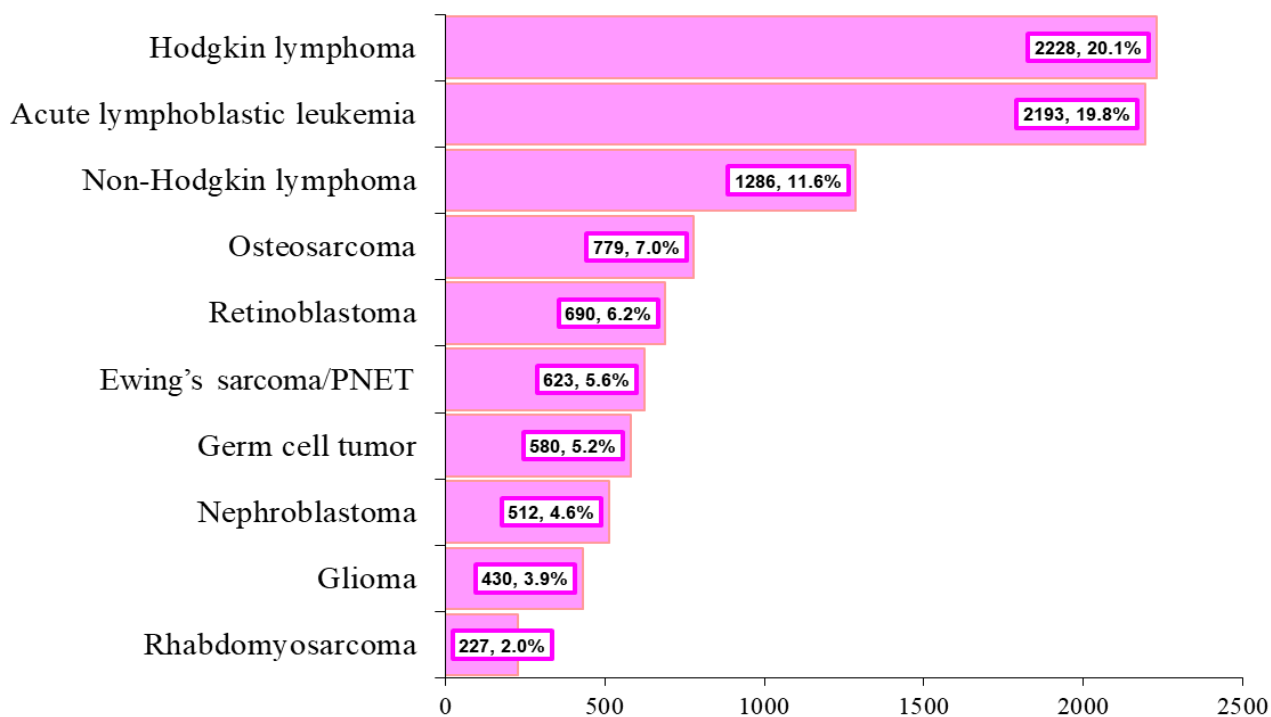
In children (<= 18 years), the most frequent cancers were Hodgkin lymphoma, acute lymphoblastic leukemia, and non-Hodgkin lymphoma (Table 6).

Table 6. Top 10 malignancies in children (<= 18 years (N=11,081)), in both sexes combined, Dec. 1994 to Dec. 2021.

Sr. No.	ICD Category	Count	%	Morphology Code [^]
1	Hodgkin lymphoma	2,228	20.1	M965-966
2	Acute lymphoblastic leukemia	2,193	19.8	M983
3	Non-Hodgkin lymphoma	1,286	11.6	M959, M967-972
4	Osteosarcoma	779	7.0	M918
5	Retinoblastoma	690	6.2	M951
6	Ewing's sarcoma/PNET	623	5.6	M9260, M9364
7	Germ cell tumor	580	5.2	M906 - M909
8	Nephroblastoma	512	4.6	M8960
9	Glioma	430	3.9	M938-M948
10	Rhabdomyosarcoma	227	2.0	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. 2021.



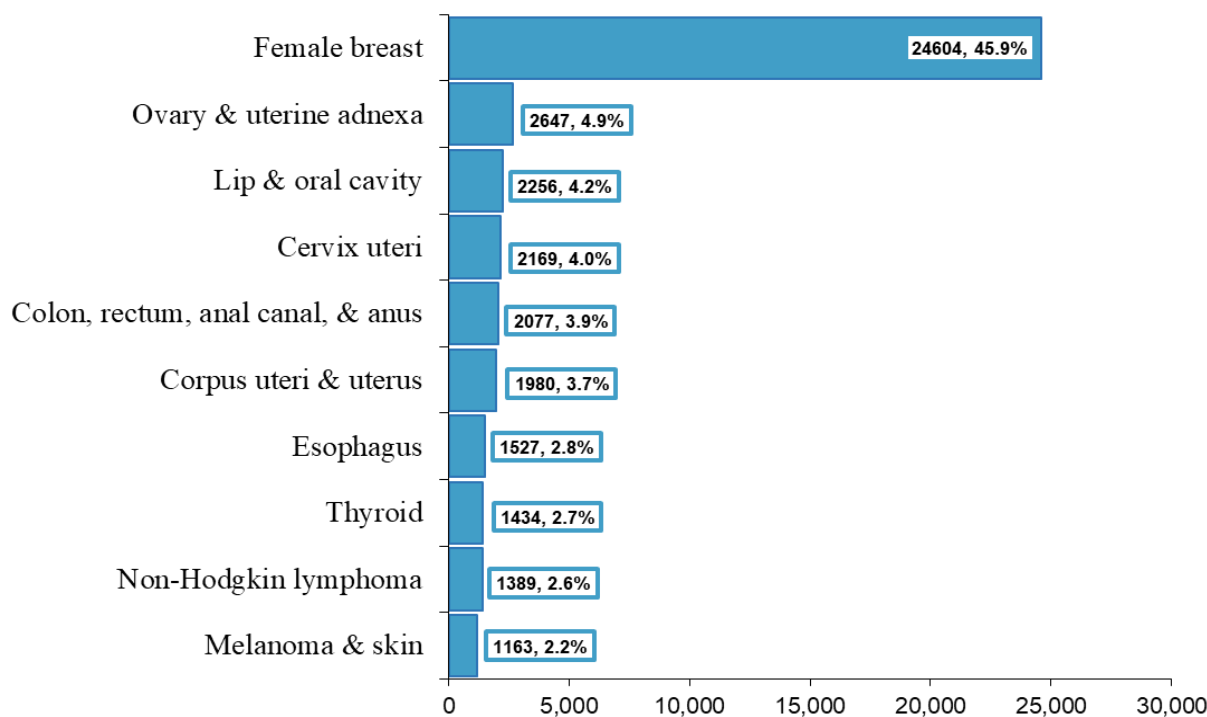
Data Source: Cancer Registry & Clinical Data Management, SKMCH&RC

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=53,580)), Dec. 1994 to Dec. 2021.

Sr. No.	ICD Category	Count	Percentage	ICD-10-CM Code
1	Female breast	24,604	45.9	C50, D05
2	Ovary & uterine adnexa	2,647	4.9	C56
3	Lip & oral cavity	2,256	4.2	C00 – C08, C76.0, D00.0
4	Cervix uteri	2,169	4.0	C53, D06
5	Colon, rectum, anal canal, & anus	2,077	3.9	C18–C21, D01, C7A.02, C49.A
6	Corpus uteri & uterus	1,980	3.7	C54 – C55, C58, D07.0
7	Esophagus	1,527	2.8	C15, D00.1
8	Thyroid	1,434	2.7	C73
8	Non-Hodgkin lymphoma	1,389	2.6	C82 – C86, C88.4
10	Melanoma & skin	1,163	2.2	C43 – C44, D03 – D04

Figure 6. Top 10 malignancies in adult females (> 18 years), Dec. 1994 to Dec. 2021.

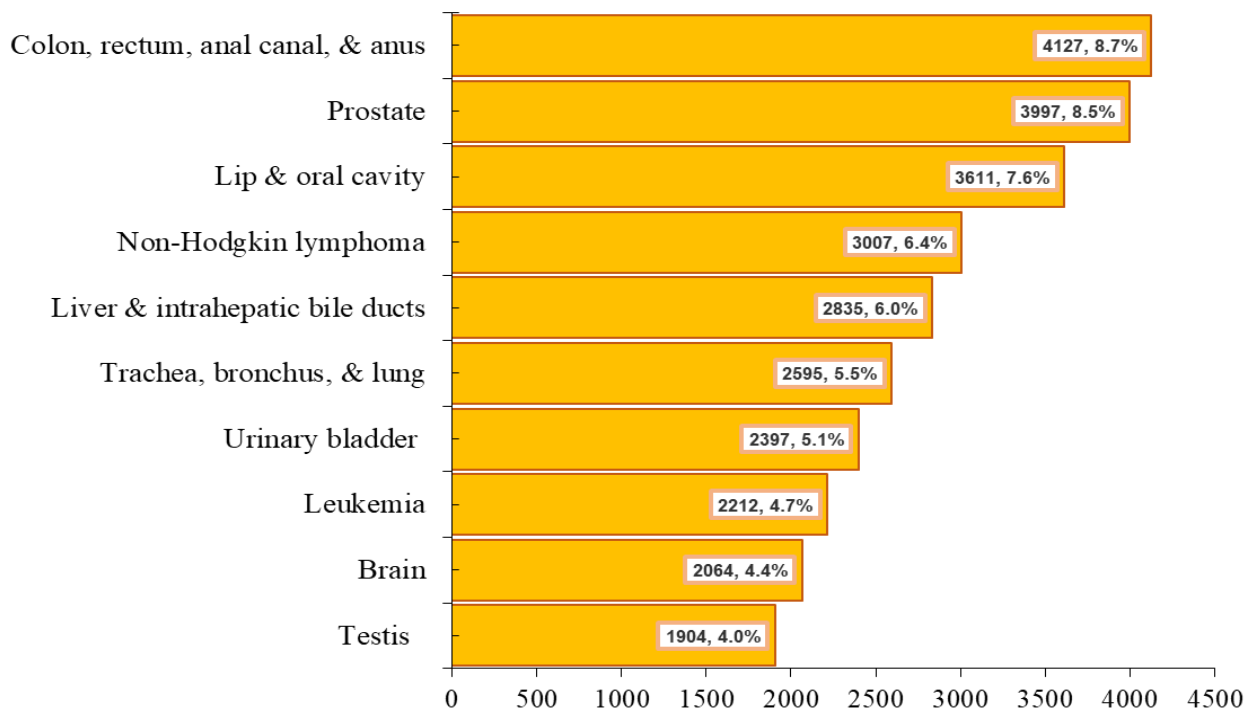


Data Source: Cancer Registry & Clinical Data Mangement, SKMCH&RC

Table 8. Top 10 malignancies in adult males (> 18 years (N=47,280)), Dec. 1994 to Dec. 2021.

Sr. No.	ICD Category	Count	Percentage	ICD-10-CM Code
1	Colon, rectum, anal canal, & anus	4,127	8.7	C18–C21, D01, C7A.02, C49.A
2	Prostate	3,997	8.5	C61, D07.5
3	Lip & oral cavity	3,611	7.6	C00 – C08, C76.0, D00.0
4	Non-Hodgkin lymphoma	3,007	6.4	C82 – C86, C88.4
5	Liver & intrahepatic bile ducts	2,835	6.0	C22
6	Trachea, bronchus, & lung	2,595	5.5	C33 – C34, D02.1-2, C7A.090
7	Urinary bladder	2,397	5.1	C67, D09.0
8	Leukemia	2,212	4.7	C91 – C95
9	Brain	2,064	4.4	C70 - C71
10	Testis	1,904	4.0	C62

Figure 7. Top 10 malignancies in adult males (> 18 years), Dec. 1994 to Dec. 2021.



Data Source: Cancer Registry & Clinical Data Mangement, 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, 1994-2021.

FEMALE

ICD-10-CM Code **	Primary site in females	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+	Total
C00	Lip	0	0	0	0	1	0	3	1	2	3	10	17	14	13	7	2	1	2	76
C01-C02, D00.07	Tongue	0	1	0	3	12	28	33	63	67	132	139	128	112	78	55	23	10	7	891
C03, D00.03	Gum	0	1	0	2	2	3	10	9	17	43	39	54	43	33	31	17	5	4	313
C04-C06, D00.02-06	Floor and other parts of the mouth	1	0	0	4	13	18	25	38	56	73	89	80	78	65	50	25	9	6	630
C07, C7A.098	Parotid gland	0	1	3	10	33	27	27	37	26	34	28	17	18	12	12	0	2	0	287
C08	Other salivary glands	0	0	1	2	5	4	11	8	7	10	10	6	7	6	0	0	0	0	77
C09-C10	Oropharynx	0	0	0	0	0	2	4	4	8	8	10	5	9	5	4	1	1	0	61
C11	Nasopharynx	1	1	11	26	40	38	30	32	28	37	27	23	14	8	5	1	0	0	322
C12-C13	Hypopharynx & pyriform sinus	0	0	0	5	12	23	29	62	52	55	59	44	48	25	19	3	1	2	439
C14	Other sites of lip, oral cavity & pharynx	0	0	0	0	0	1	0	0	4	2	1	7	1	0	1	0	0	0	17
C15, D00.1, C49.A1	Esophagus	0	0	0	4	17	40	78	145	226	240	223	217	147	94	49	20	13	8	1521
C16, C49.A2, C7A.092	Stomach	0	0	0	8	14	30	62	85	111	82	124	127	88	60	24	9	5	1	830
C17, C7A.01, C49.A3	Small intestine	0	0	0	2	3	2	8	12	5	12	25	20	17	6	4	2	0	0	118
C18, D01.0, C7A.02, C49.A4	Colon	0	0	2	7	30	50	67	84	74	91	107	121	98	50	41	15	9	2	848
C19	Rectosigmoid	0	0	1	2	6	8	13	9	14	17	14	22	14	9	12	3	0	0	144
C20, D01.2, C7A.02, C49.A5	Rectum	0	1	1	14	67	113	87	91	79	91	94	89	79	48	27	18	4	4	907
C21, D01.3	Anal canal & anus	0	0	0	5	14	21	22	20	16	22	23	17	17	11	10	5	2	0	205
C22, C49.A9, C7A.098	Liver & intrahepatic bile ducts	29	1	4	3	2	2	9	33	42	112	194	243	216	156	94	39	8	2	1189
C23-C24, C7A.098, D01.5	Gall bladder & extrahepatic bile ducts	0	0	0	1	3	9	19	35	77	96	146	143	146	102	75	26	16	7	901
C25, C7A.098	Pancreas	0	0	0	2	4	7	12	22	23	52	60	79	78	73	47	19	13	3	494
C26, D01.40	Other & ill-defined digestive organs	0	0	0	0	0	1	0	2	2	1	0	1	0	1	0	0	0	0	8
C30-C31, C7A.098	Nasal cavity & sinuses	1	0	4	9	5	9	17	21	16	23	38	23	33	11	10	3	2	0	225
C32, C7A.098, D02.0	Larynx	0	1	0	1	4	3	6	10	16	13	20	31	26	9	10	4	2	2	158
C33-C34, C7A.090, D02.2	Trachea, bronchus, & lung	1	1	0	1	1	20	31	30	47	51	80	83	94	76	49	19	18	3	605
C37-C39, C7A.091, C7A.098	Thymus, heart, mediastinum, & pleura	4	0	2	1	4	8	4	9	7	5	10	1	5	6	3	1	0	0	70
C40-C41	Bone & articular cartilage	24	106	207	206	93	51	31	28	16	11	17	14	5	5	2	2	0	0	818
C43-C44, C7A.098, D03-D04	Melanoma & other malignant neoplasm of skin	0	1	2	13	25	36	50	71	76	106	129	140	174	120	117	51	41	21	1173
C47, C49	Peripheral nerves & connective tissues	46	23	37	73	64	90	80	92	64	61	56	44	45	36	23	13	4	1	852
C48	Retroperitoneum	2	1	2	1	2	2	1	6	4	3	6	3	3	2	0	0	0	0	38
C50, C7A.098, D05	Breast	0	1	1	14	212	909	2093	3417	4047	3804	3497	2676	1863	1007	635	263	124	52	24615
C51-C52, C7A.098, D07.1-2	Vulva & vagina	7	0	0	0	0	4	5	4	8	5	19	12	23	6	8	2	0	0	103
C53, D06	Cervix	0	0	2	12	10	37	103	238	326	341	380	273	242	115	61	25	9	6	2180
C54-C55, C58	Corpus, uterus, & placenta	0	0	3	4	33	56	77	108	140	181	288	329	361	213	117	43	18	2	1973
C56, C7A.098	Ovary	8	33	95	143	176	191	207	242	294	366	372	293	240	119	65	25	13	6	2888
C57, D07.39	Other female genital organs	3	0	2	1	3	7	9	16	12	22	19	30	26	18	13	8	2	0	191
C64-C66, C7A.093	Kidney & ureter	161	57	8	12	15	30	29	46	43	75	86	100	87	64	22	14	5	1	855
C67, C7A.098, D09.0	Urinary bladder	3	1	2	0	1	6	14	26	32	53	50	68	61	48	35	19	8	7	434
C68	Other & unspecified urinary organs	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	0	0	5
C69, D09.2	Eye & adnexa	272	40	9	3	6	2	3	1	4	5	3	2	5	2	2	0	2	0	361
C70-C71	Brain & meninges	21	50	29	46	97	99	124	123	93	98	86	79	62	46	19	7	3	0	1082
C72	Spinal cord	3	4	5	1	4	7	3	12	2	5	4	3	1	3	0	0	0	0	57
C73, C7A.098, D09.3	Thyroid	0	3	8	57	148	220	231	198	153	145	90	84	62	40	33	5	6	2	1485
C74	Adrenal gland	13	3	3	1	5	9	2	3	10	6	2	4	4	1	2	0	0	0	68
C75	Other endocrine glands	0	0	0	0	0	3	2	0	0	0	0	2	0	0	0	0	0	0	7
C76, C49.A9, C7A.098	Other & ill-defined sites	57	14	5	9	13	6	2	9	8	14	10	9	7	6	5	3	0	2	179
C80, C7A.00	Unknown primary	2	2	2	7	10	15	25	50	48	90	118	97	100	71	60	27	7	6	737
C81	Hodgkin lymphoma	38	205	101	157	229	181	136	113	58	45	28	23	18	13	4	3	1	1	1354
C82-C87, C88.4	Non-Hodgkin lymphoma	81	119	71	77	134	142	152	183	105	123	117	103	95	88	51	24	10	5	1680
C90	Multiple myeloma & immuno. neoplasms	0	0	0	0	3	2	3	10	13	32	47	40	23	21	13	2	0	0	209
C91	Lymphoid leukemia	412	163	66	65	49	30	20	26	18	26	42	46	23	9	9	1	0	0	1005
C92	Myeloid leukemia	21	34	54	77	86	104	109	113	80	76	66	41	21	14	10	2	0	0	908
C93-C95	Other specified leukemia	12	2	4	1	2	4	1	3	1	4	2	0	3	3	0	0	0	1	43
C96, C88.0-3, D45-D46, D47.1-D47.9	Other lymph. histiocytic & hemato. Tissue	3	1	0	0	0	2	7	2	2	8	5	9	11	6	4	1	0	0	61
D32-33, D35.2-4, D42.0-D43.9, D44.3-D44.5*	Other reportable CNS neoplasms	5	7	12	17	62	67	85	70	65	49	38	33	28	20	9	2	1	2	572
	Total	1231	878	759	1109	1774	2779	4211	6072	6741	7062	7149	6150	5001	3054	1957	799	375	168	57269

MALE

ICD-10-CM Code **	Primary site in males	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+	Total
C00	Lip	0	0	0	2	3	5	9	13	21	12	33	27	25	27	16	8	0	4	205
C01-C02, D00.07	Tongue	2	2	0	6	14	29	75	123	143	166	190	163	168	108	67	30	16	8	1310
C03, D00.03	Gum	0	1	1	3	6	9	21	38	41	67	92	92	115	60	48	18	9	3	624
C04-C06, D00.02-06	Floor and other parts of the mouth	0	0	2	1	9	31	50	94	127	169	170	137	111	70	54	33	5	5	1068
C07, C7A.098	Parotid gland	1	2	5	10	19	29	34	33	23	53	31	24	29	15	11	11	5	1	336
C08	Other salivary glands	0	0	0	1	5	4	4	3	11	17	21	10	7	6	4	2	0	2	97
C09-C10	Oropharynx	0	1	0	0	0	4	4	15	11	12	10	10	19	8	6	3	0	2	105
C11	Nasopharynx	2	3	32	48	71	48	62	75	77	92	106	84	61	42	19	7	3	1	833
C12-C13	Hypopharynx & pyriform sinus	0	0	0	5	19	21	40	47	44	52	48	47	67	42	33	21	8	1	495
C14	Other sites of lip, oral cavity, pharynx	0	0	0	0	0	1	2	3	1	2	0	4	3	0	1	0	0	0	17
C15, D00.1, C49.A1	Esophagus	0	1	0	8	25	54	83	128	159	205	217	212	197	145	112	45	17	11	1619
C16, C49.A2, C7A.092	Stomach	0	0	1	3	22	59	74	127	179	234	254	273	247	167	122	47	18	5	1832
C17, C7A.01, C49.A3	Small intestine	0	1	1	4	5	9	18	24	22	20	20	31	26	13	12	5	1	0	212
C18, D01.0, C7A.02, C49.A4	Colon	0	2	9	23	51	96	115	170	222	198	207	154	168	101	82	30	19	6	1653
C19	Rectosigmoid	0	0	2	9	16	22	24	34	21	27	29	23	34	24	13	7	7	0	292
C20, D01.2, C7A.02, C49.A5	Rectum	0	1	6	36	135	174	209	205	174	178	184	160	148	124	65	35	15	5	1854
C21, D01.3	Anal canal & anus	0	0	0	4	20	17	46	47	50	41	37	41	29	35	8	10	5	0	390
C22, C49.A9, C7A.098	Liver & intrahepatic bile ducts	52	7	4	5	8	15	30	68	126	287	457	515	519	394	255	107	40	12	2901
C23-C24, C7A.098, D01.5	Gall Bladder & extrahepatic bile ducts	0	0	0	1	3	6	24	39	48	74	93	116	110	68	51	25	10	6	674
C25, C7A.098	Pancreas	0	2	0	3	5	8	21	29	63	69	90	127	131	105	57	31	16	8	765
C26, D01.40	Other & ill-defined digestive organs	0	0	0	0	0	0	0	1	0	3	2	1	0	0	0	0	0	0	7
C30-C31, C7A.098	Nasal cavity & sinuses	1	1	4	8	12	26	27	23	47	34	47	27	41	25	19	4	3	2	351
C32, C7A.098, D02.0	Larynx	0	0	0	1	5	10	31	68	93	113	187	218	224	191	142	71	33	12	1399
C33-C34, C7A.090, D02.2	Trachea, bronchus, & lung	0	0	2	4	11	22	54	67	114	187	272	346	458	447	305	205	77	29	2600
C37-C39, C7A.091, C7A.098	Thymus, heart, & mediastinum	6	3	7	14	17	18	20	22	23	18	22	9	11	7	6	1	0	1	205
C40-C41	Bone & articular cartilage	26	111	337	431	223	97	65	49	27	25	19	19	18	9	5	2	1	0	1464
C43-C44, C7A.098, D03-D04	Melanoma & other malignant neoplasm of skin	0	6	4	8	35	61	81	95	121	142	195	205	219	198	188	116	70	51	1795
C47, C49	Peripheral nerves & connective tissues	70	39	45	91	159	138	138	100	106	74	99	81	84	66	45	18	13	3	1369
C48	Retroperitoneum	8	2	1	2	8	11	5	5	3	7	2	4	6	3	1	2	0	0	70
C50, C7A.098, D05	Breast	0	0	0	0	2	3	9	7	19	25	21	32	30	16	19	11	1	1	196
C61, C7A.098	Prostate	0	1	0	1	0	3	4	5	17	73	215	412	785	973	793	426	202	88	3998
C62-C63, C7A.098, D07.6	Testis & other male genital organs	115	5	13	131	381	468	402	258	167	84	58	32	25	13	5	6	1	0	2164
C64-C66, C7A.093	Kidney & ureter	249	72	13	9	19	27	55	119	125	173	207	166	185	102	68	37	16	5	1647
C67, C7A.098, D09.0	Urinary bladder	8	1	2	2	16	30	44	124	181	269	273	356	342	323	237	121	48	33	2410
C68	Other & unspecified urinary organs	1	0	0	0	0	0	0	0	2	2	2	1	1	0	1	0	0	0	10
C69, D09.2	Eye and adnexa	335	61	7	4	3	1	8	7	8	7	8	4	9	7	4	3	3	1	480
C70-C71	Brain & meninges	33	96	89	85	178	247	313	266	245	215	164	156	119	71	42	15	4	3	2341
C72	Spinal cord	7	3	4	8	5	24	15	17	10	9	7	3	5	0	0	0	0	0	117
C73, C7A.098, D09.3	Thyroid	0	1	6	27	66	93	83	91	67	66	60	53	39	30	21	9	3	1	716
C74	Adrenal gland	16	9	5	1	0	6	6	6	8	6	1	2	2	4	0	0	0	0	72
C75	Other endocrine glands	0	1	0	0	3	4	3	0	1	0	1	0	1	0	0	0	0	0	14
C76, C49.A9, C7A.098	Other & ill-defined sites	46	11	8	5	25	24	17	9	16	21	25	8	16	14	6	4	3	2	260
C80, C7A.00	Unknown primary	2	3	2	8	20	34	37	43	66	86	107	106	128	110	91	49	24	12	928
C81	Hodgkin lymphoma	187	933	400	355	440	357	310	266	141	122	74	43	54	28	11	9	4	1	3735
C82-C87, C88.4	Non-Hodgkin lymphoma	188	440	170	235	317	356	403	427	259	260	221	172	182	122	95	41	23	12	3923
C90	Multiple myeloma & immuno. neoplasms	0	0	0	1	1	4	10	21	43	45	64	70	41	36	14	10	6	2	368
C91	Lymphoid leukemia	748	389	195	206	183	85	47	69	81	125	120	38	28	20	10	8	0	0	2399
C92	Myeloid leukemia	26	59	95	125	180	212	196	175	138	106	85	55	29	25	26	6	2	1	1541
C93-C95	Other specified leukemia	23	9	5	3	4	2	3	3	2	2	1	2	1	2	0	0	0	0	62
C96, C88.0-3, D45-D46, D47.1-D47.9	Other lymph. histiocytic & hemato. Tissue	8	8	6	3	4	4	7	10	14	14	11	8	12	11	5	2	2	1	130
D32-33, D35.2-4, D42.0-D43.9, D44.3-D44.5*	Other reportable CNS neoplasms	3	14	17	28	66	78	72	70	51	77	51	29	15	28	12	6	1	1	619
	Total	2163	2301	1500	1968	2819	3086	3410	3715	3745	4318	4916	4992	5335	4444	3216	1660	742	342	54672

**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, 1994-2021.

Province/Country	District	Female	Male	Total
Punjab	Attock	224 .3%	186 .2%	410 .5%
	Bahawalnagar	457 .6%	469 .6%	926 1.2%
	Bahawalpur	377 .5%	433 .6%	810 1.1%
	Bhakkar	323 .4%	390 .5%	713 .9%
	Chakwal	250 .3%	254 .3%	504 .7%
	Chiniot	52 .1%	58 .1%	110 .1%
	Dera Ghazi Khan	367 .5%	524 .7%	891 1.2%
	Faisalabad	2536 3.4%	2248 3.0%	4784 6.3%
	Gujranwala	2534 3.3%	2136 2.8%	4670 6.2%
	Gujrat	1201 1.6%	1019 1.3%	2220 2.9%
	Hafizabad	296 .4%	261 .3%	557 .7%
	Jhelum	381 .5%	290 .4%	671 .9%
	Jhang	645 .9%	615 .8%	1260 1.7%
	Kasur	753 1.0%	671 .9%	1424 1.9%
	Khanewal	408 .5%	442 .6%	850 1.1%
	Khushab	324 .4%	364 .5%	688 .9%
	Lahore	16969 22.4%	12490 16.5%	29459 38.9%
	Layyah	215 .3%	269 .4%	484 .6%
	Lodhran	93 .1%	139 .2%	232 .3%
	Mandi Bahuddin	383 .5%	362 .5%	745 1.0%
	Mianwali	491 .6%	582 .8%	1073 1.4%
	Multan	1150 1.5%	959 1.3%	2109 2.8%
	Muzaffargarh	286 .4%	417 .6%	703 .9%
	Nankana Sahib	183 .2%	138 .2%	321 .4%
	Narowal	348 .5%	291 .4%	639 .8%
	Okara	799 1.1%	738 1.0%	1537 2.0%
	Pakpattan	388 .5%	340 .4%	728 1.0%
	Peshawar	0 0.0%	1 .0%	1 .0%
	Rahim Yar Khan	499 .7%	571 .8%	1070 1.4%
	Rajanpur	127	184	311

		.2%	.2%	.4%
	Rawalpindi	875 1.2%	827 1.1%	1702 2.2%
	Sahiwal	863 1.1%	704 .9%	1567 2.1%
	Sargodha	1254 1.7%	1020 1.3%	2274 3.0%
	Sheikhupura	1100 1.5%	925 1.2%	2025 2.7%
	Sialkot	2050 2.7%	1727 2.3%	3777 5.0%
	Toba Tek Singh	516 .7%	459 .6%	975 1.3%
	Unknown Punjab	692 .9%	797 1.1%	1489 2.0%
	Vehari	477 .6%	468 .6%	945 1.2%
	Total	40886 54.0%	34768 46.0%	75654 100.0%
Sindh	Badin	13 .4%	28 .8%	41 1.1%
	Dadu	14 .4%	32 .9%	46 1.2%
	Ghotki	48 1.3%	74 2.0%	122 3.3%
	Hyderabad	138 3.7%	116 3.1%	254 6.9%
	Jacobabad	39 1.1%	81 2.2%	120 3.2%
	Jamshoro	6 .2%	7 .2%	13 .4%
	Karachi	1408 38.0%	917 24.8%	2325 62.8%
	Khairpur	18 .5%	24 .6%	42 1.1%
	Larkana	21 .6%	38 1.0%	59 1.6%
	Malir	14 .4%	18 .5%	32 .9%
	Mirpur Khas	22 .6%	19 .5%	41 1.1%
	Naushahro Feroze	17 .5%	24 .6%	41 1.1%
	Nawab Shah	19 .5%	33 .9%	52 1.4%
	Sanghar	29 .8%	39 1.1%	68 1.8%
	Shikarpur	23 .6%	20 .5%	43 1.2%
	Sukkur	70 1.9%	67 1.8%	137 3.7%
	Tharparkar	3 .1%	1 .0%	4 .1%
	Thatta	18 .5%	13 .4%	31 .8%
	Umerkot	8 .2%	7 .2%	15 .4%
	Unknown Sindh	93 2.5%	125 3.4%	218 5.9%
	Total	2021 54.6%	1683 45.4%	3704 100.0%
Balochistan	Awaran	0 0.0%	1 .1%	1 .1%
	Barkhan	3 .2%	18 1.1%	21 1.3%
	Bolan	5 .3%	9 .5%	14 .8%

	Chaghi	13 .8%	26 1.6%	39 2.4%
	Dera Bugti	6 .4%	19 1.2%	25 1.5%
	Gwadar	6 .4%	3 .2%	9 .5%
	Jafarabad	9 .5%	35 2.1%	44 2.7%
	Jhal Magsi	0 0.0%	2 .1%	2 .1%
	Kalat	3 .2%	8 .5%	11 .7%
	Kech	11 .7%	13 .8%	24 1.5%
	Kharan	1 .1%	3 .2%	4 .2%
	Khuzdar	9 .5%	9 .5%	18 1.1%
	Killa Abdullah	38 2.3%	63 3.8%	101 6.1%
	Killa Saifullah	11 .7%	18 1.1%	29 1.8%
	Kohlu	5 .3%	9 .5%	14 .8%
	Lasbela	2 .1%	11 .7%	13 .8%
	Loralai	69 4.2%	126 7.6%	195 11.8%
	Mastung	5 .3%	6 .4%	11 .7%
	Nasirabad	9 .5%	25 1.5%	34 2.1%
	Panjgur	5 .3%	0 0.0%	5 .3%
	Pishin	31 1.9%	46 2.8%	77 4.7%
	Quetta	317 19.2%	416 25.2%	733 44.5%
	Sibi	13 .8%	23 1.4%	36 2.2%
	Unknown Balochistan	20 1.2%	39 2.4%	59 3.6%
	Zhob	35 2.1%	64 3.9%	99 6.0%
	Ziarat	15 .9%	16 1.0%	31 1.9%
	Total	641 38.9%	1008 61.1%	1649 100.0%
Khyber Pakhtunkhwa	Abbottabad	270 1.2%	304 1.3%	574 2.5%
	Bajaur	199 .9%	334 1.5%	533 2.4%
	Bannu	290 1.3%	419 1.9%	709 3.1%
	Batgram	37 .2%	84 .4%	121 .5%
	Bunair	1 .0%	2 .0%	3 .0%
	Buner	101 .4%	206 .9%	307 1.4%
	Charsadda	532 2.4%	691 3.1%	1223 5.4%
	Chitral	72 .3%	120 .5%	192 .9%
	Dera Ismail Khan	318 1.4%	337 1.5%	655 2.9%
	Hangu	179	195	374

		.8%	.9%	1.7%			
Haripur	144	.6%	.7%	1.3%			
Karak	151	.7%	.7%	1.4%			
Khyber	184	.8%	1.6%	2.5%			
Kohat	363	1.6%	1.8%	3.4%			
Kohistan	21	.1%	.3%	.4%			
Kurram	147	.7%	1.0%	1.6%			
Lakki Marwat	176	.8%	.9%	1.6%			
Lower Dir	486	2.2%	2.9%	5.1%			
Malakand P/A	312	1.4%	1.6%	3.0%			
Mansehra	204	.9%	1.4%	2.3%			
Mardan	897	4.0%	4.9%	8.9%			
Mohmand	109	.5%	.6%	1.1%			
North Waziristan	125	.6%	1.2%	1.7%			
Nowshera	520	2.3%	2.4%	4.7%			
Orakzai	34	.2%	.3%	.5%			
Parachinar	27	.1%	.2%	.3%			
Peshawar	2140	9.5%	9.4%	18.8%			
Risalpur	8	.0%	.0%	.0%			
South Waziristan	119	.5%	.9%	1.5%			
Shangla	64	.3%	.5%	.8%			
Swabi	445	2.0%	2.5%	4.5%			
Swat	898	4.0%	5.4%	9.4%			
Tank	64	.3%	.4%	.7%			
Unknown Khyber Pakhtunkhwa	118	.5%	1.0%	1.5%			
Upper Dir	192	.9%	1.6%	2.4%			
Total	9947	44.1%	55.9%	100.0%			
Azad Jammu & Kashmir	Bagh	59	5.5%	74	6.8%	133	12.3%
	Bhimber	86	7.9%	83	7.7%	169	15.6%
	Kotli	44	4.1%	65	6.0%	109	10.1%
	Mirpur	181	16.7%	138	12.8%	319	29.5%
	Muzaffarabad	79	7.3%	78	7.2%	157	14.5%
	Poonch	54	5.0%	73	6.7%	127	11.7%
	Sudhnoti	13	1.2%	22	2.0%	35	3.2%

	Unknown Azad Jammu & Kashmir	14 1.3%	19 1.9%	33 3.2%	
	Total	530 49.0%	552 51.0%	1082 100.0%	
Federal Capital	Islamabad	738 57.8%	538 42.2%	1276 100.0%	
Gilgit Baltistan	Astore	2 1.0%	2 1.0%	4 2.0%	
	Diamir	22 10.7%	36 17.6%	58 28.3%	
	Ghanche	3 1.5%	15 7.3%	18 8.8%	
	Ghizer	1 .5%	5 2.4%	6 2.9%	
	Gilgit	27 13.2%	33 16.1%	60 29.3%	
	Hunza-Nagar	7 3.4%	20 9.8%	27 13.2%	
	Kharmang	2 1.0%	0 0.0%	2 1.0%	
	Shigar	2 1.0%	7 3.4%	9 4.4%	
	Skardu	3 1.5%	18 8.8%	21 10.2%	
		Total	69 33.7%	136 66.3%	205 100.0%
	Afghanistan	Districts are not listed	2357 41.9%	3265 58.1%	5622 100.0%
Other countries	Districts are not listed	19 45.2%	23 54.8%	42 100.0%	
Districts and provinces not defined		61 44.9%	75 55.1%	136 100.0%	
Grand Total		57269 100.0%	54672 100.0%	111941 100.0%	

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