

# ANNUAL CANCER REGISTRY REPORT-2019, OF THE 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 affiliated centers include two hospitals called the 'Shaukat Khanum Memorial Cancer Hospital and Research Center' (SKMCH&RC) in Lahore and Peshawar and the Karachi Diagnostic Center (KDC). 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 in August 01, 2019. For the purpose of presenting the results, all of these centers are referred to as SKMCH&RC/hospital in this report.

### Distribution of neoplasms

Of a total of 7,044 new neoplasms diagnosed or treated at the aforementioned facilities in Pakistan, from January 1, 2019 to December 31, 2019, 3,253 were seen in male (46.2%) and 3791 (53.8%) in female patients. Six thousand, five hundred and eleven (6511 (92.4%)) neoplasms were found in adults, whereas, 533 (7.6%) were seen in children. Children were classified as those 18-years or less and adults as more than 18-years of age. Table 1 shows the stratification of cases by behavior and age-group.

**Table 1. Distribution of neoplasms by behavior and age-group, from Jan. 2019 to Dec. 2019.**

<b>Behavior</b>	<b>Age-group</b>	<b>Registered patients (6,764)</b>	<b>Reported neoplasm* (7,044)</b>
<b>Malignant<sup>†</sup></b>	Adults	5,848	5,928
	Pediatrics	517	518
	Total	6,365	6,446
<b>Benign<sup>‡</sup> &amp; Uncertain Behavior</b>	Adults	524	583
	Pediatrics	14	15
	Total	538	598

\* The difference in the number of registered patients and reported neoplasms is attributed to multiple malignancies and benign neoplasms diagnosed in 81 and 60 patients, respectively. Further, 139 patients have both malignant and benign neoplasm simultaneously.

<sup>†</sup> Cases with behavior code /3 and /2 are considered as malignant cases.

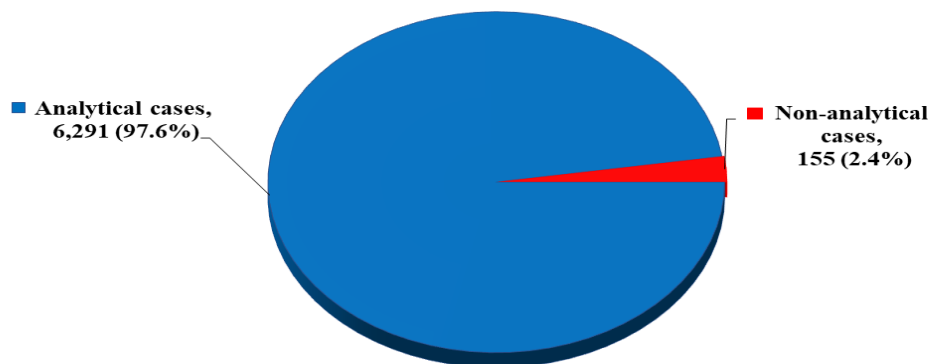
<sup>‡</sup> Cases with behavior code /0 and /1 are considered as benign and uncertain, respectively.

<sup>§</sup> According to the Facility Oncology Revised Data Standards (FORDS), Revised for 2004, Class of Case 0 to 2 are analytical cases and included in treatment and survival analysis, whereas, Class of Case 3 to 9 are non-analytical cases, usually not included in routine treatment or survival statistics.

## Class of Case

Of a total of 6,446 malignant cases recorded in the Registry from January 2019 to December 2019, 6291 (97.6%) were analytical cases and 155 (2.4%) non-analytical. Figure 1 shows the stratification of analytical and non-analytical cases<sup>¥</sup>.

**Figure 1. Stratification of analytical and non-analytical cases, from Jan. 2019 to Dec. 2019.**



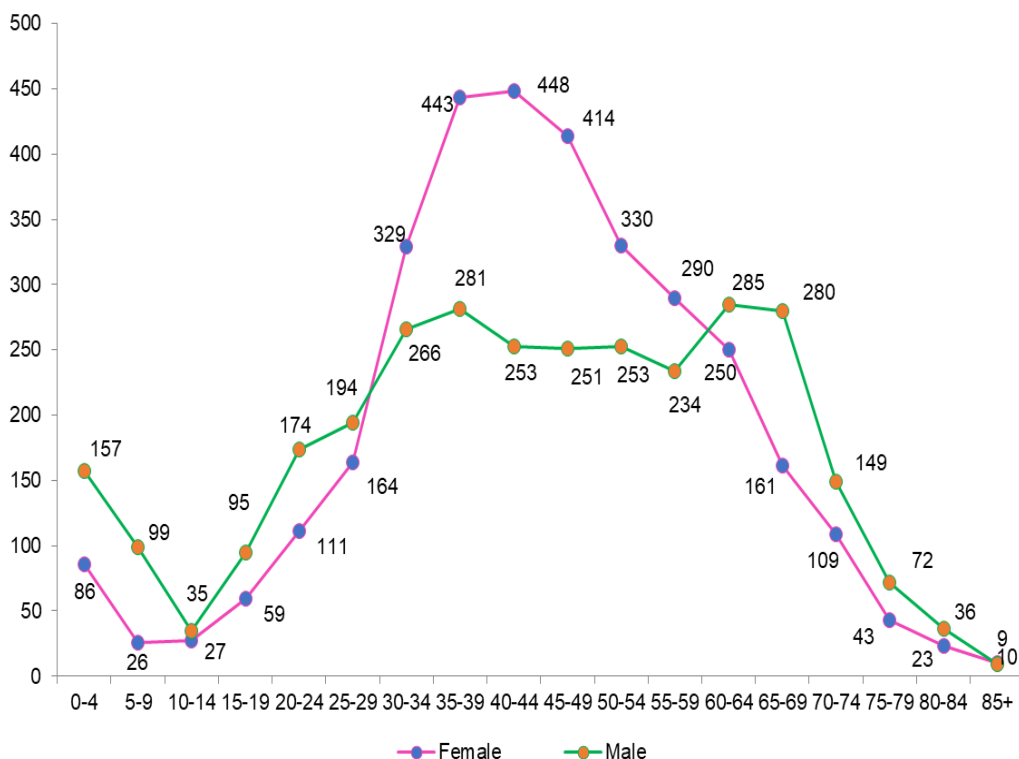
Data Source: Cancer Registry & Clinical Data Management, SKMCH&RC

## Distribution of malignancies

In the year 2019, a total of 6,446 malignancies were diagnosed at the hospital with 3,323 seen amongst females and 3,123 amongst males. Table 2 displays the distributions of female and male patients according to sex and age-group.

Table 2 and figure 2. Distribution of cancer cases by sex and age-group (yrs.), from Jan. 2019 to Dec. 2019.

Age-range	Female	Male	Total
0-4	86	157	243
5-9	26	99	125
10-14	27	35	62
15-19	59	95	154
20-24	111	174	285
25-29	164	194	358
30-34	329	266	595
35-39	443	281	724
40-44	448	253	701
45-49	414	251	665
50-54	330	253	583
55-59	290	234	524
60-64	250	285	535
65-69	161	280	441
70-74	109	149	258
75-79	43	72	115
80-84	23	36	59
85+	10	9	19
<b>Total</b>	<b>3323</b>	<b>3123</b>	<b>6446</b>



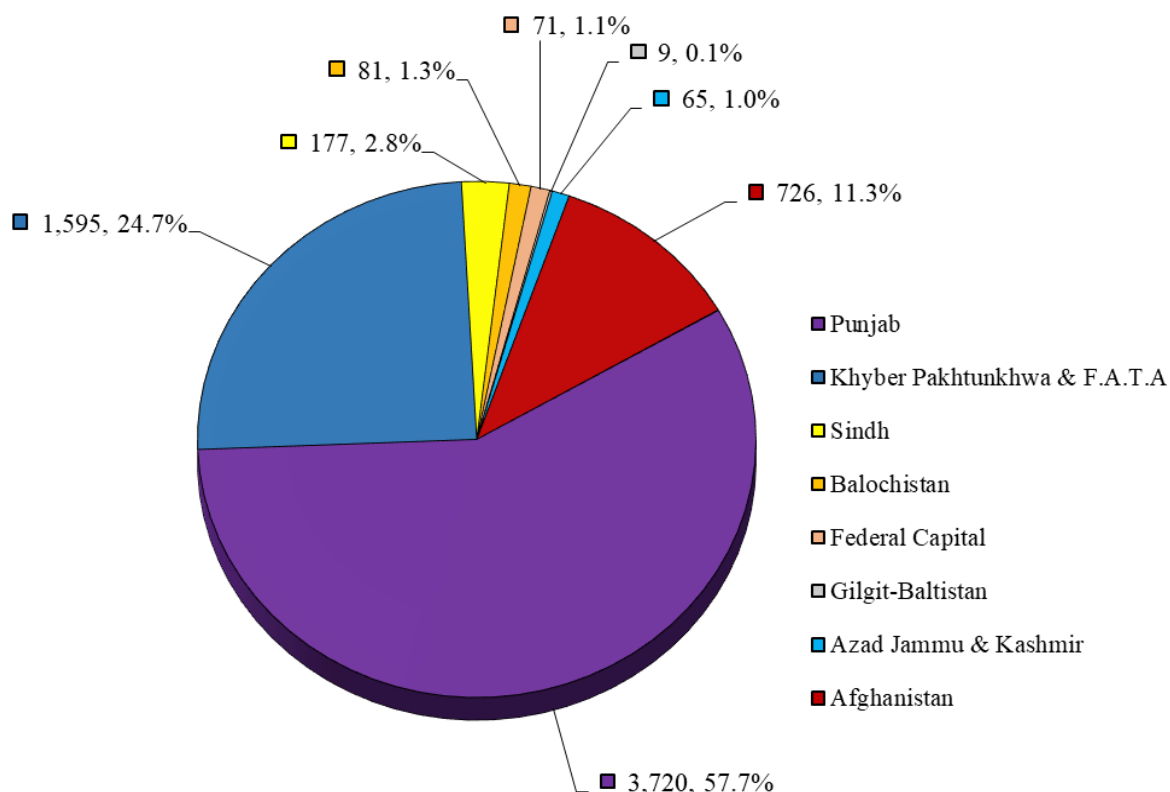
Data Source: Cancer Registry & Clinical Data Management, SKMCH&RC

## Demographics

Of the 6,446 malignant cancers, nearly 57.7% (3,720) belonged to the province of Punjab and approximately 24.7% (1,595) to Khyber Pakhtunkhwa (Table 3). The fact that the geographic area of residence of a vast majority of patients was Punjab can be explained in light of the information that the oldest affiliate 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, from Jan. 2019 to Dec. 2019.**

Province/Region	Malignancies	Percentage
Punjab	3,720	57.7
Khyber Pakhtunkhwa & F.A.T.A [1]	1,595	24.7
Sindh	177	2.8
Balochistan	81	1.3
Federal Capital	71	1.1
Gilgit-Baltistan	9	0.1
Azad Jammu & Kashmir	65	1.0
Afghanistan	726	11.3
Other countries	2	0.03
<b>Total</b>	<b>6,446</b>	<b>100.0</b>



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

<sup>[1]</sup> Khyber Pakhtunkhwa and F.A.T.A merged on May 28, 2018.

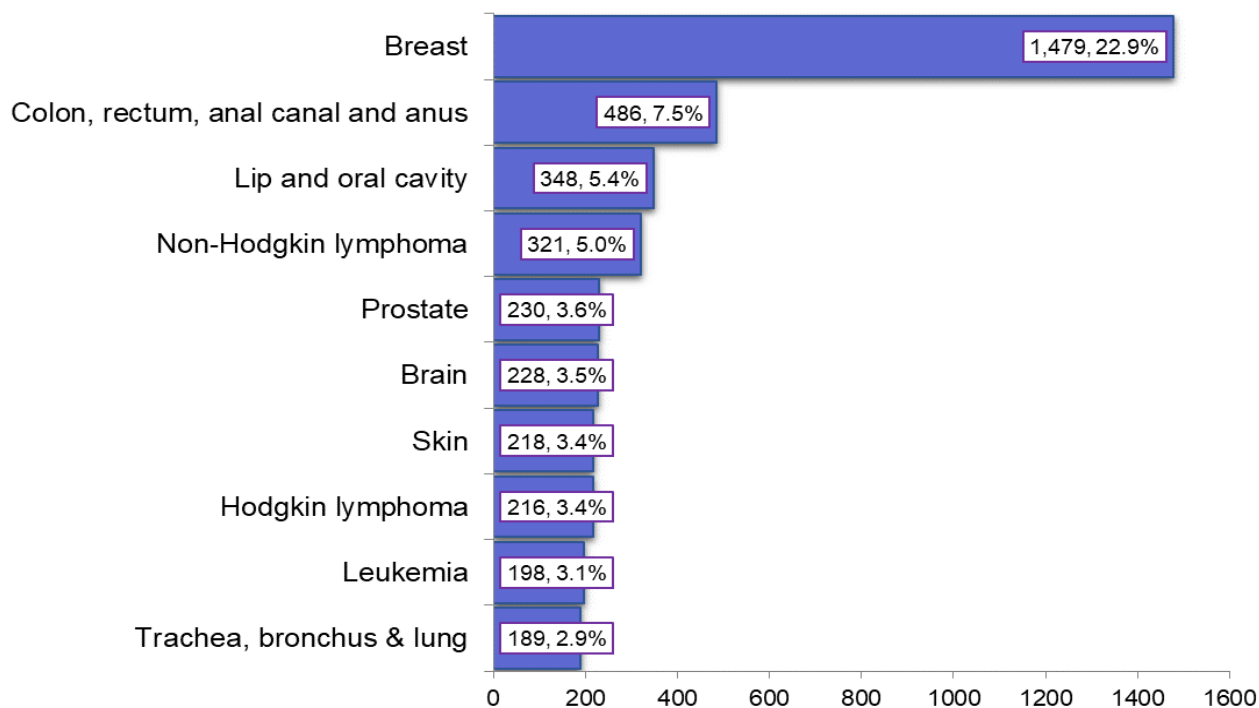
## Top ten cancers

Tables 4 to 8 show the list of the ten commonest malignancies seen at SKMCH&RC during the year 2019. Of a total of 6,446 malignancies, breast cancer was the leading malignancy with 1,479 cases accessioned into the Registry. Cancers of the colon/rectum/anal canal/anus, and lip & oral cavity were the second and third most frequently seen cancers, respectively.

**Table 4. Top 10 malignancies seen amongst all age-groups, both sexes combined, from Jan. 2019 to Dec. 2019.**

Sr. No.	ICD-O-3 Category	Count	Percentage	ICD-O-3 Code
1	Breast	1,479	22.9	C50.0 - C50.9
2	Colon/rectum/anal canal/anus	486	7.5	C18.0 - C21.8
3	Lip and oral cavity	348	5.4	C00.0 - C08.9
4	Non-Hodgkin lymphoma	321	5.0	M9590 - 91, M967 - 972
5	Prostate	230	3.6	C61.9
6	Brain	228	3.5	C71.0 - C71.9
7	Skin	218	3.4	C44
8	Hodgkin lymphoma	216	3.4	M9650 - M9667
9	Leukemia	198	3.1	M9800 - M9948
10	Trachea, bronchus & lung	189	2.9	C33.9 - C34.9

**Figure 3. Top 10 malignancies seen amongst all age-groups, both sexes combined, from Jan. 2019 to Dec. 2019.**



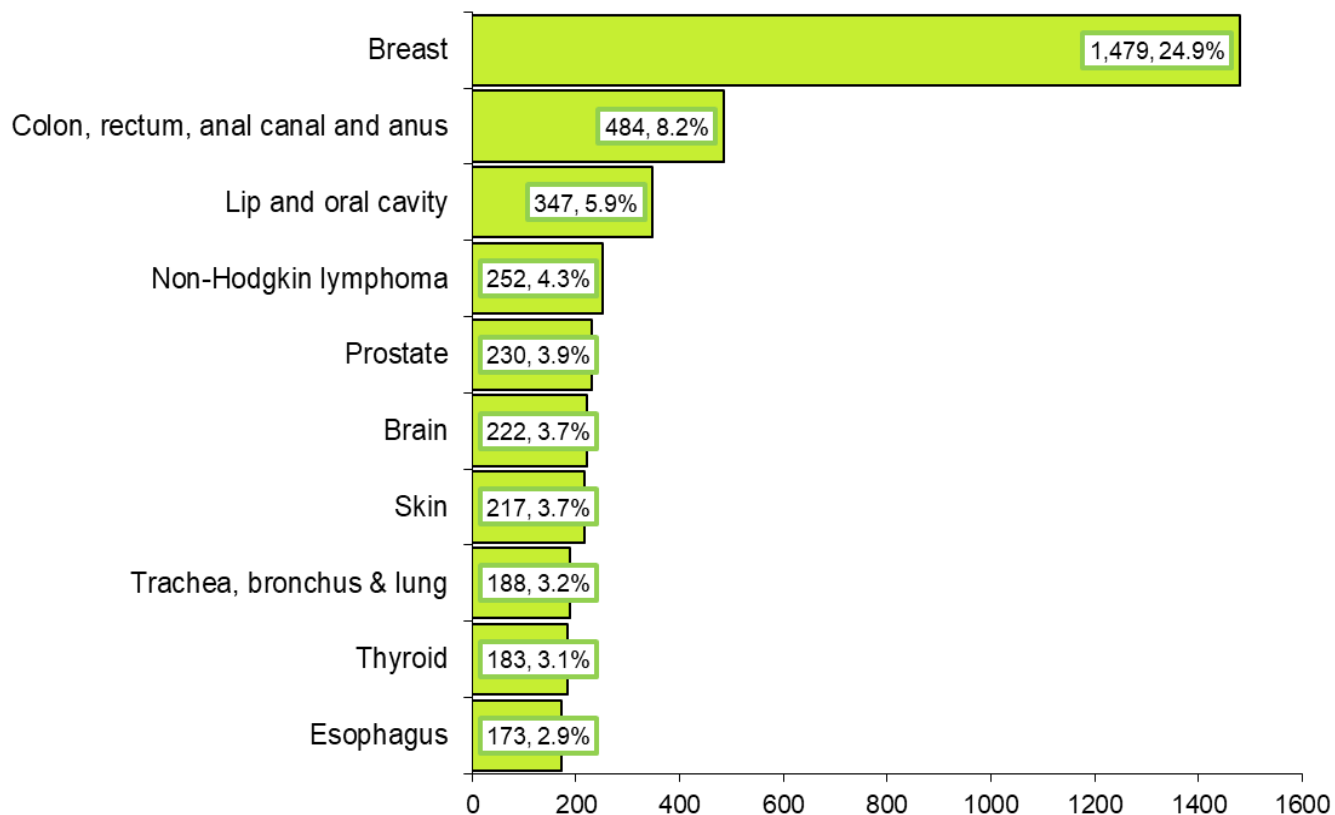
Data Source: Cancer Registry & Clinical Data Management, SKMCH&RC

Amongst adults, during the year 2019, a total of 5,928 malignancies were diagnosed or treated at SKMCH&RC. Cancers of the breast, colon/rectum/anal canal/anus, and lip and oral cavity were registered as the most frequently seen cancers.

**Table 5. Top 10 malignancies seen amongst adults (> 18 years), from Jan. 2019 to Dec. 2019.**

Sr. No.	ICD-O-3 Category	Count	Percentage	ICD-O-3 Code
1	Breast	1479	24.9	C50.0 - C50.9
2	Colon/rectum/anal canal/anus	484	8.2	C18.0 - C21.8
3	Lip and oral cavity	347	5.9	C00.0 - C08.9
4	Non-Hodgkin lymphoma	252	4.3	M9590 - 91, M967 - 972
5	Prostate	230	3.9	C61.9
6	Brain	222	3.7	C71.0 - C71.9
7	Skin	217	3.7	C44.0 - C44.9
8	Trachea, bronchus & lung	188	3.2	C33.9 - C34.9
9	Thyroid	183	3.1	C73.9
10	Esophagus	173	2.9	C15

**Figure 4. Top 10 malignancies seen amongst adults (> 18 years), from Jan. 2019 to Dec. 2019.**



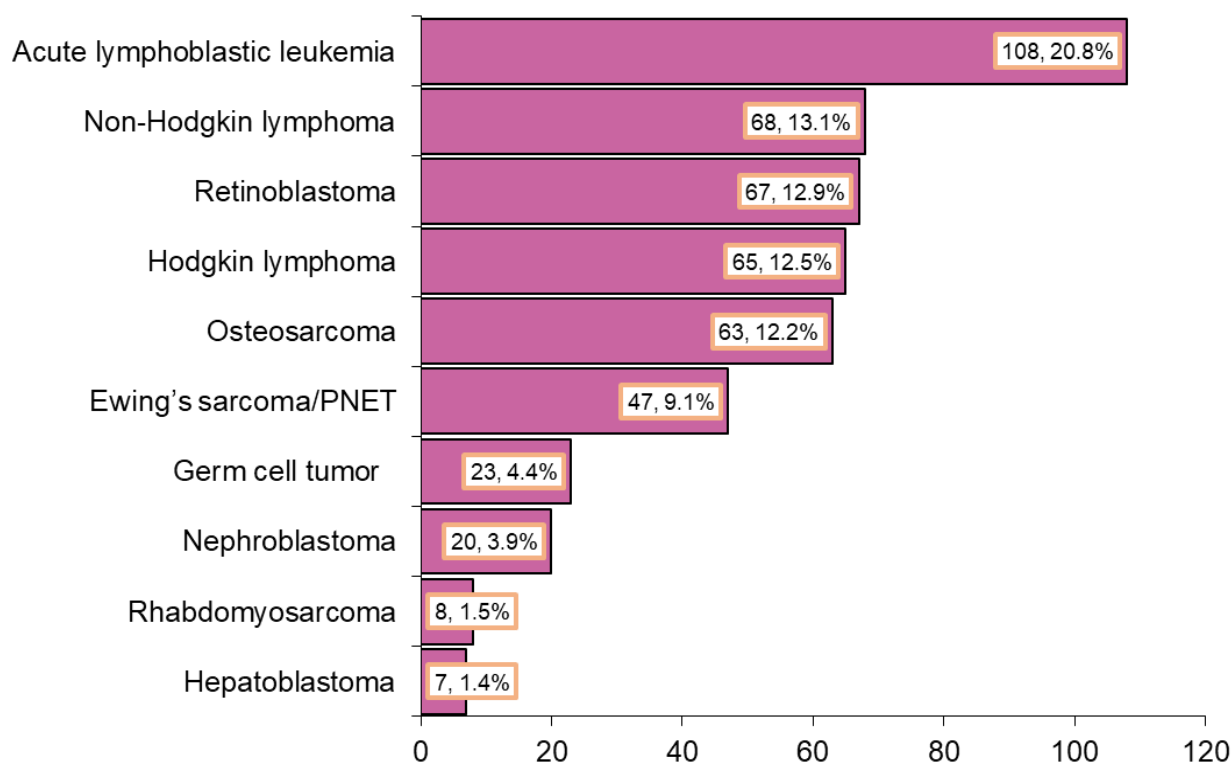
Data Source: Cancer Registry & Clinical Data Management, SKMCH&RC

In 518 childhood malignancies, using the classification based on tumor morphology, acute lymphoblastic leukemia, non-Hodgkin lymphoma, and retinoblastoma were identified as the three most common malignancies diagnosed or treated at SKMCH&RC. Table 6 shows the distributions of the top ten malignancies seen in children at SKMCH&RC.

**Table 6. Top 10 malignancies seen in children (<= 18 years), from Jan. 2019 to Dec. 2019.**

Sr. No.	ICD-O-3 Category	Count	Percentage	ICD-O-3 Morphology Code
1	Acute lymphoblastic leukemia	108	20.8	M982 - M983
2	Non-Hodgkin lymphoma	68	13.1	M9590 - 91, M967 - 972
3	Retinoblastoma	67	12.9	M9510 - M9514
4	Hodgkin lymphoma	65	12.5	M9650 - M9667
5	Osteosarcoma	63	12.2	M9180 - M9195
6	Ewing's sarcoma/PNET	47	9.1	M9260
7	Germ cell tumor	23	4.4	M906 - M909
8	Nephroblastoma	20	3.9	M8960
9	Rhabdomyosarcoma	8	1.5	M8900 - M8921
10	Hepatoblastoma	7	1.4	M8970

**Figure 5. Top 10 malignancies seen in children (<= 18 years), from Jan. 2019 to Dec. 2019.**



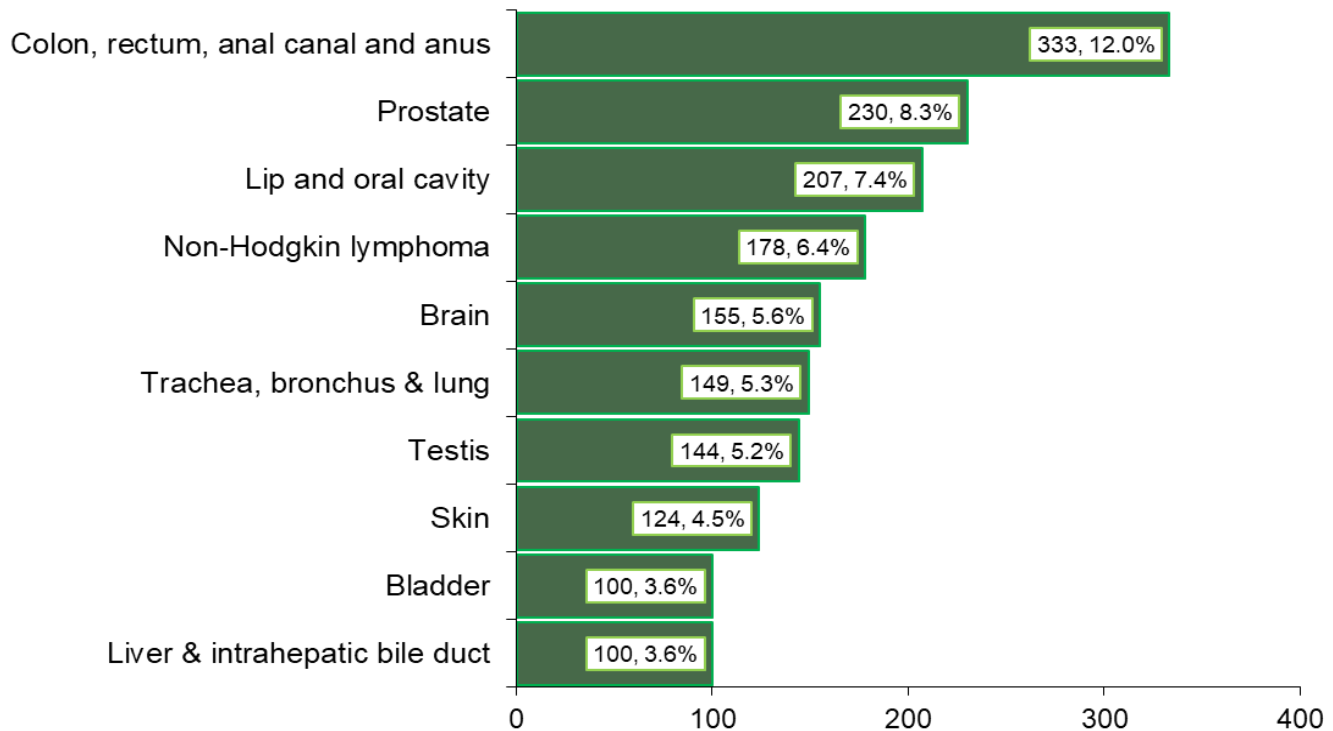
Data Source: Cancer Registry & Clinical Data Management, SKMCH&RC

In adult males (2,785 malignancies), the commonest cancers were those of the colon/rectum/anal canal/anus, prostate, and lip & oral cavity (Table 7).

**Table 7. Top 10 malignancies seen amongst adult males, from Jan. 2019 to Dec. 2019.**

Sr.No.	ICD Category	Count	Percentage	ICD-O-3 Code
1	Colon/rectum/anal canal/anus	333	12.0	C18 - C21.8
2	Prostate	230	8.3	C61.9
3	Lip and oral cavity	207	7.4	C00.0 - C08.9
4	Non-Hodgkin lymphoma	178	6.4	M9590 - 91, M967 - 972
5	Brain	155	5.6	C71
6	Trachea, bronchus & lung	149	5.3	C33.9 - C34.9
7	Testis	144	5.2	C62
8	Skin	124	4.5	C44
9	Bladder	100	3.6	C67
10	Liver & intrahepatic bile duct	100	3.6	C22

**Figure 6. Top 10 malignancies seen amongst adult males, from Jan. 2019 to Dec. 2019.**



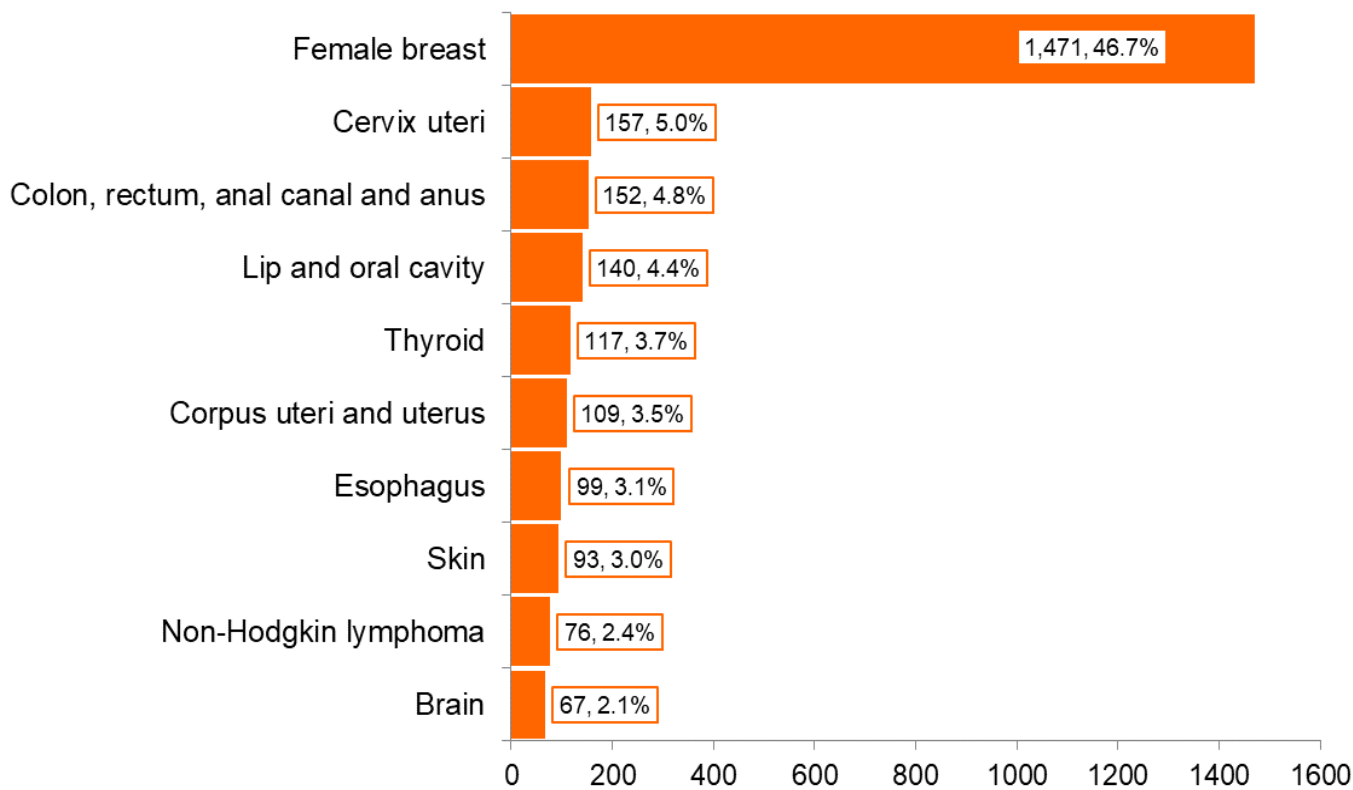
Data Source: Cancer Registry & Clinical Data Management, SKMCH&RC

The most frequent diagnosis in adult women (3,150) was breast cancer accounting for 46.7% of the cancers. Cervix uteri was ranked as the second highest cancer (5.0%) and cancers of the colon, rectum, anal canal and anus as the third common malignancy with 4.8% of the total malignancies, in females.

**Table 8. Top 10 malignancies seen amongst adult females, from Jan. 2019 to Dec. 2019.**

Sr. No.	ICD Category	Count	Percentage	ICD-O 3 Code
1	Female breast	1,471	46.7	C50.0 - C50.9
2	Cervix uteri	157	5.0	C53.0 - C53.9
3	Colon/rectum/anal canal/anus	152	4.8	C18 - C21.8
4	Lip and oral cavity	140	4.4	C00.0 - C08.9
5	Thyroid	117	3.7	C73.9
6	Corpus uteri and uterus	109	3.5	C54.0 - C55.9
7	Esophagus	99	3.1	C15 - C15.9
8	Skin	93	3.0	C44.0 - C44.9
9	Non-Hodgkin lymphoma	76	2.4	M9590 - 91, M967 - 972
10	Brain	67	2.1	C71.0 - C71.9

**Figure 7. Top 10 malignancies seen amongst adult females, from Jan. 2019 to Dec. 2019.**



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



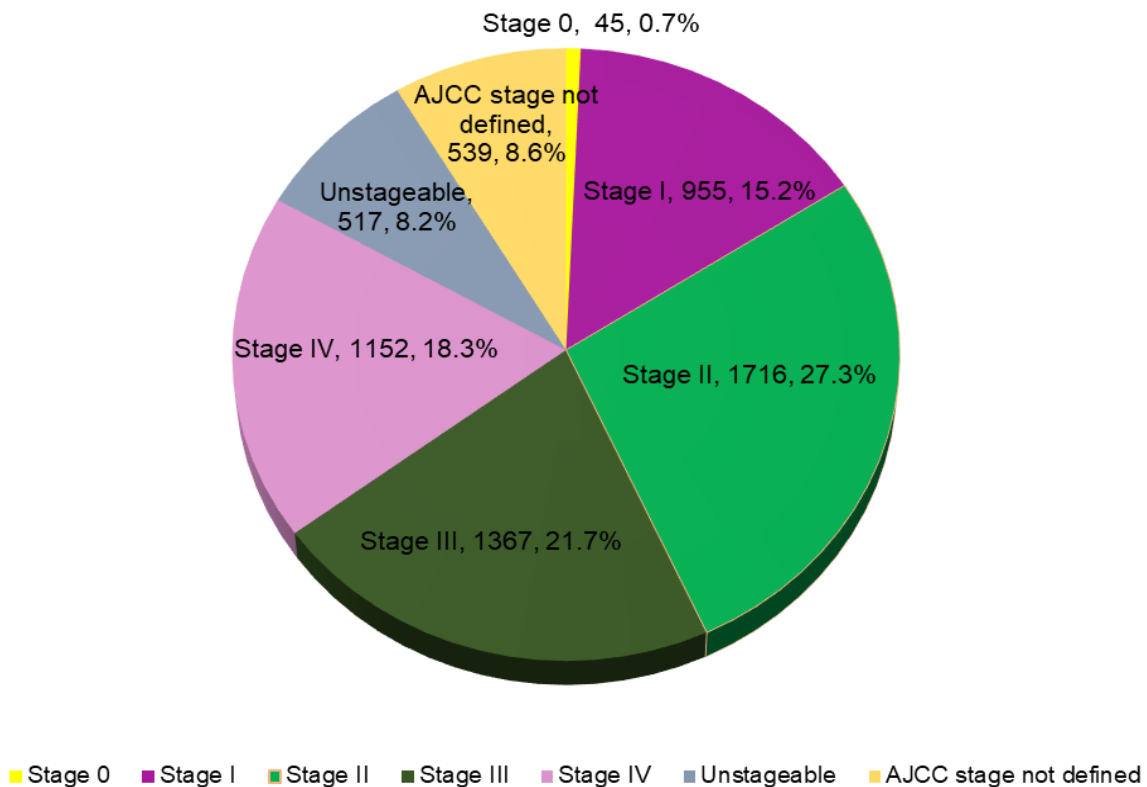
## Staging

The Registry uses the American Joint Commission on Cancer TNM staging system for all analytical cancer cases. TNM categorizes cancers in stages 0, 1, 2, 3, 4, unstageable, and not applicable on all analytical cases (Class of Case 0, 1, 2). Cancers are classified as being unstageable as the patients may choose not to receive any treatment or undergo further tests at the hospital needed to establish an appropriate stage. “Not applicable” means non-availability of AJCC staging for that site. During the year 2019, cancer staging for 6,291 analytical cases (Class of Case 0, 1, 2) showed that 45 (0.7%) cases fell into 0 or in situ category, 955 (15.2%) in Stage I, 1,716 (27.3%) in Stage II, 1,367 (21.7%) cases in Stage III, and 1152 (18.3%) in Stage IV, (table 9); 517 (8.2%) cases were unstageable and 539 (8.6%) had no AJCC stage defined for that site.

**Table 9. TNM Stage of cancer patients at SKMCH&RC, from Jan. 2019 to Dec. 2019.**

<b>AJCC Stage</b>	<b>Count</b>	<b>Percentage</b>
Stage 0	45	0.7
Stage I	955	15.2
Stage II	1,716	27.3
Stage III	1,367	21.7
Stage IV	1,152	18.3
Unstageable	517	8.2
AJCC stage not defined	539	8.6
<b>Total</b>	<b>6,291</b>	<b>100.0</b>

**Figure 8. TNM stage of cancer patients at SKMCH&RC, from Jan. 2019 to Dec. 2019.**



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

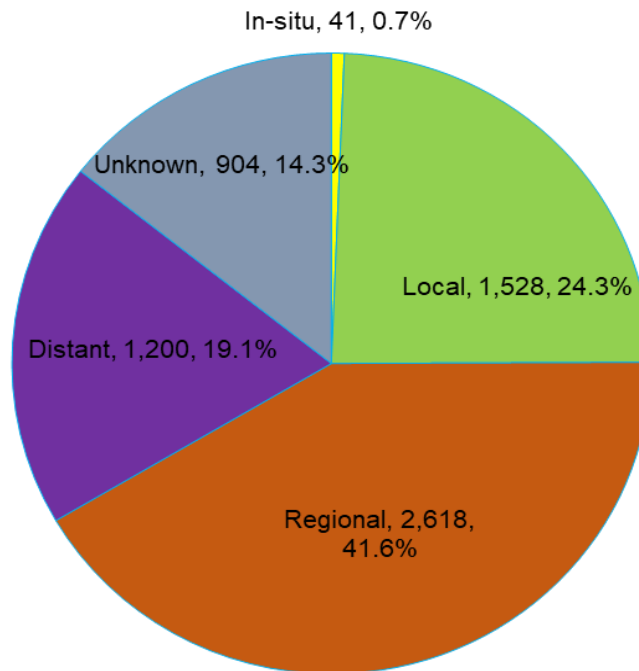
## Summary Stage

The SEER Summary Staging Manual-2000 Codes and Coding Instructions were used to describe how far the tumor had spread from the organ or the site of origin. This manual consists of a one-digit hierarchical code for each and every site. All analytical cases (Class of Case 0, 1, 2), were included to generate results. The cancer data for the year 2019 reflects that there were 0.7% in situ cases, 24.3% localized cancers, 41.6% regional cases, 19.1% distant, and there were 14.3% cases in which the summary stage was unknown.

**Table 10. Classification of patients according to the SEER summary stage, from Jan. 2019 to Dec. 2019.**

<b>SEER Summary Stage</b>	<b>Count</b>	<b>Percentage</b>
In situ	41	0.7
Local	1,528	24.3
Regional	2,618	41.6
Distant	1,200	19.1
Unknown	904	14.3
<b>Total</b>	<b>6,291</b>	<b>100.0</b>

**Figure 9. Classification according to the SEER Summary Stage, from Jan. 2019 to Dec. 2019.**



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

## Grade/Differentiation/Immunophenotype

The International Classification of Diseases for Oncology, Third Edition (ICD-O-3), codes and guidelines have been used to categorize grade/differentiation/immunophenotype. All analytical cases (Class of Case 0, 1, 2), were included to generate results.

**Table 11. Grade/differentiation/immunophenotype of cancers from Jan. 2019 to Dec. 2019.**

<b>Grade/Differentiation/Immunophenotype</b>	<b>Count</b>	<b>Percentage</b>
Grade I	471	7.5
Grade II	1,986	31.6
Grade III	1,379	21.9
Grade IV	131	2.1
T-cell	23	0.4
B-cell	359	5.7
Nk Cell (Natural Killer Cell)	1	0.01
Grade/differentiation/immunophenotype not determined, not stated, or not applicable	1,941	30.9
<b>Total</b>	<b>6,291</b>	<b>100.0</b>

## SUPPLEMENTAL INFORMATION

Table 12 depicts the results stratified by primary site, age-group, and gender. According to this, cancers of the breast, colon/rectum/anal canal/anus, lymphoma and lip and oral cavity and skin are the commonest systems/site(s) for malignancies seen at SKMCH&RC. Table 13 shows the results stratified by gender, primary site, and morphology.

**Table 12. Distribution by gender, primary malignant site, and 5-year age-group, 2019**

**FEMALES**

ICD-O-3 Code*	Primary Site	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	0	0	0	0	0	0	1	3	1	0	0	0	0	0	5
C01-C02	Tongue	0	0	0	0	1	1	1	3	4	11	8	6	9	4	7	0	0	1	56
C03	Gum	0	0	0	0	1	0	1	0	0	1	1	1	3	2	2	0	0	0	12
C04-C06	Floor and other parts of mouth	0	0	0	1	1	2	1	2	3	6	3	6	6	6	5	2	1	2	47
C07-C08	Salivary gland	0	0	0	1	2	1	2	2	3	5	1	2	1	1	0	0	0	0	21
C09-C10	Tonsil & oropharynx	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2
C11	Nasopharynx	0	0	0	0	4	1	2	3	1	2	3	2	2	0	0	0	0	0	20
C12-C13	Pyiform sinus & Hypopharynx	0	0	0	0	2	1	2	5	1	3	3	3	1	2	1	0	0	0	24
C14	Other & ill-defined lip, oral cavity, pharynx	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
C15	Esophagus	0	0	0	0	1	6	13	20	40	8	5	1	2	0	1	0	1	1	99
C16	Stomach	0	0	0	1	1	2	8	14	6	1	2	2	7	2	0	1	0	0	47
C17	Small intestine	0	0	0	0	0	0	0	0	0	3	3	2	0	2	0	0	0	0	10
C18	Colon	0	0	0	1	0	2	2	5	5	9	2	7	4	4	4	5	0	0	50
C19-C21	Rectosigmoid, rectum, anal canal, and anus	0	0	0	2	7	10	15	7	11	8	7	12	10	5	6	3	0	0	103
C22	Liver & intrahepatic bile duct	1	0	0	0	0	0	1	1	3	2	2	7	8	3	2	2	3	0	35
C23-C24	Gall bladder & extrahepatic bile duct	0	0	0	0	0	0	0	2	3	10	6	6	6	6	4	0	1	0	44
C25	Pancreas	0	0	0	0	0	1	1	1	1	2	3	5	7	5	1	2	1	0	30
C30-C31	Nasal cavity, middle ear and acc. sinuses	1	0	1	0	0	0	0	0	0	0	2	2	3	1	1	0	0	0	11
C32	Larynx	0	0	0	0	1	0	0	1	1	0	1	1	2	0	1	0	0	0	8
C33-C34	Trachea, bronchus & lung	0	0	0	1	0	4	3	5	1	1	3	5	5	6	2	2	2	0	40
C37-C38	Thymus, heart, mediastinum & pleura	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	2
C40-C41	Bone & articular cartilage	3	7	18	16	1	2	2	0	1	2	0	0	0	1	0	0	0	0	53
C44	Skin	0	0	0	2	1	2	4	6	8	14	10	10	10	8	9	4	4	2	94
C47	Peripheral & autoimmune nervous system	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
C48	Peritoneum & Retroperitoneum	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2
C49	Connective & soft tissue	0	2	3	4	6	8	8	5	7	3	5	5	2	5	1	2	1	0	67
C50	Breast	0	0	0	0	15	58	180	260	248	235	156	125	89	56	30	12	4	3	1471
C51-C52	Vulva & vagina	0	0	0	0	0	0	0	0	0	0	2	0	1	1	0	1	0	0	5
C53	Cervix uteri	0	0	0	1	3	5	3	14	35	23	32	18	18	4	0	1	0	1	158
C54	Corpus uteri	0	0	0	0	1	2	5	8	8	8	17	12	20	8	9	1	2	0	101
C55	Uterus	0	0	0	0	0	1	1	0	1	1	1	2	0	0	1	0	0	0	8
C56-C57	Ovary & other female genital organs	0	1	3	3	3	2	2	6	8	7	10	6	7	4	4	0	1	0	67
C64-C66	Kidney & other urinary organ	7	2	0	0	0	2	7	3	3	9	13	8	11	2	2	0	0	0	69
C67	Urinary bladder	0	0	0	0	0	0	0	3	1	4	2	1	1	3	4	1	1	0	21
C69	Eye	26	3	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	32
C70-C71	Brain	0	0	0	2	6	8	13	17	10	5	2	2	1	0	1	0	0	0	67
C72	Other parts of nervous system	0	0	0	0	1	0	0	2	0	1	0	1	0	0	0	0	0	0	5
C73	Thyroid gland	0	0	0	5	7	17	22	16	17	14	7	6	3	3	0	0	0	0	117
C74-C75	Endocrine gland and related structure	0	0	0	0	1	1	0	0	1	2	0	1	0	0	0	0	0	0	6
C76	Other and ill-defined sites	3	1	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0	8
C80	Unknown primary	0	0	0	0	0	1	1	1	0	0	1	5	1	4	5	1	0	0	20
M9650-M9667	Hodgkin lymphoma	1	3	0	5	22	11	9	8	3	0	0	0	0	1	0	0	0	0	63
M9590-91, 967-972	Non-Hodgkin lymphoma	8	5	0	4	11	5	3	14	9	3	4	7	5	6	4	3	1	0	92
M9731-M9732	Multiple myeloma & immuno. neoplasms	0	0	0	0	0	0	0	0	1	2	1	0	0	1	0	0	0	0	5
M982-M983	Lymphoid leukemia	35	2	0	3	3	1	0	1	0	0	0	1	1	0	0	0	0	0	47
M984-M993	Myeloid leukemia	1	0	0	2	1	0	1	0	1	0	3	0	1	1	1	0	0	0	12
M994	Other leukemia	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2	0
C42.0, C42.2-4	Other lymphatic & hematopoietic tissue	0	0	0	0	0	1	1	0	0	0	0	2	0	2	0	0	0	0	6
~	Other reportable CNS neoplasms	0	0	0	4	7	4	14	7	3	6	5	2	1	2	1	0	0	0	56
	<b>Total</b>	<b>86</b>	<b>26</b>	<b>27</b>	<b>59</b>	<b>111</b>	<b>164</b>	<b>329</b>	<b>443</b>	<b>448</b>	<b>414</b>	<b>330</b>	<b>290</b>	<b>250</b>	<b>161</b>	<b>109</b>	<b>43</b>	<b>23</b>	<b>10</b>	<b>3323</b>

**MALES**

ICD-O-3 Code	Primary Site	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	1	0	2	1	1	3	2	1	1	1	2	0	0	16
C01-C02	Tongue	0	0	0	0	3	5	10	8	5	14	9	8	12	2	1	0	0	0	77
C03	Gum	0	0	0	0	1	0	3	3	3	3	0	7	2	3	0	0	0	0	25
C04-C06	Floor and other parts of mouth	0	0	0	0	1	1	3	6	6	10	9	7	4	5	3	1	0	0	56
C07-C08	Salivary gland	0	0	0	0	2	5	7	0	5	7	0	2	1	1	0	3	0	0	33
C9-C10	Tonsil & oropharynx	0	0	0	0	0	0	1	2	0	0	1	0	0	0	1	0	0	0	5
C11	Nasopharynx	0	0	0	3	4	2	8	16	5	6	10	9	4	7	3	1	1	0	79
C12-C13	Pyiform sinus & Hypopharynx	0	0	0	0	0	0	2	2	0	1	3	0	3	4	1	2	0	0	18
C15	Esophagus	0	0	0	0	3	2	8	11	26	6	2	5	1	4	4	1	1	0	74
C16	Stomach	0	0	0	0	3	4	6	18	20	11	7	4	6	2	4	2	0	0	87
C17	Small intestine	0	0	0	0	0	1	2	2	1	2	1	3	2	0	1	0	0	0	15
C18	Colon	0	0	0	0	3	7	11	12	16	22	14	16	17	9	5	5	2	0	139
C19-C21	Rectosigmoid, rectum, anal canal, and anus	0	0	0	2	15	15	25	28	22	15	17	19	10	16	7	1	2	0	194
C22	Liver & intrahepatic bile duct	6	0	0	1	0	0	3	3	5	17	12	16	16	17	8	1	0	1	106
C23-C24	Gall Bladder & extrahepatic bile duct	0	0	0	0	0	0	1	4	5	5	10	8	10	7	3	2	0	1	56
C25	Pancreas	0	0	0	1	0	0	3	2	5	9	6	8	18	12	4	3	0	0	71
C30-C31	Nasal cavity, middle ear and acc. sinuses	0	0	0	0	0	1	2	2	2	0	1	2	2	1	1	0	0	0	14
C32	Larynx	0	0	0	0	1	0	3	4	3	5	15	12	17	14	9	2	2	1	88
C33-C34	Bronchus & Lung	0	0	0	0	0	1	2	4	5	11	18	18	24	29	22	10	5	0	149
C37-C38	Thymus, heart, mediastinum & pleura	0	0	0	0	1	3	5	1	1	0	1	0	0	1	1	0	0	0	14
C40-C41	Bone & articular cartilage	6	6	29	26	5	5	2	2	2	1	2	4	1	0	1	0	0	0	92
C44	Skin	0	0	0	0	0	6	4	5	6	8	19	15	22	19	8	2	8	2	124
C47	Peripheral. & autoimmune nervous system	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
C48	Retroperitoneum and Peritoneum	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
C49	Connective & soft tissue	3	4	1	4	9	7	7	10	3	8	4	6	4	3	2	1	3	0	79
C50	Breast	0	0	0	0	0	0	0	1	2	2	0	1	1	0	1	0	0	0	8
C60	Penis	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
C61	Prostate	0	0	0	0	0	0	0	1	1	2	17	26	58	74	27	16	6	2	230
C62	Testis	8	0	0	12	28	36	32	15	15	6	3	1	0	0	0	0	0	0	156
C63	Other & unspecified male genital organs	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
C64-C66	Kidney & other urinary organ	11	1	0	2	1	1	5	7	15	14	13	11	11	4	5	3	0	0	104
C67	Urinary bladder	0	0	0	0	2	3	2	8	11	22	12	9	5	10	6	6	2	2	100
C68	Other and unspecified urinary organs	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
C69	Eye	31	6	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	39
C70-C71	Brain	0	2	1	3	17	27	34	25	20	11	6	1	4	5	4	1	0	0	161
C72	Other parts of nervous system	0	0	1	2	0	2	1	0	0	1	0	0	0	0	0	0	0	0	7
C73	Thyroid gland	0	0	0	0	9	6	10	12	8	3	7	4	4	1	0	1	1	0	66
C74-C75	Endocrine gland and related structure	0	0	0	0	1	3	0	1	1	0	0	0	1	1	0	0	0	0	8
C76	Other and ill-defined sites	1	0	0	2	2	3	2	0	1	4	0	0	2	0	0	0	0	0	17
C80	Unknown primary	0	0	0	0	0	0	0	1	0	1	5	4	5	1	3	0	1	0	21
M9650-M9667	Hodgkin lymphoma	15	40	2	11	22	21	20	6	7	7	1	0	1	0	0	0	0	0	153
M9590-91,967-972	Non-Hodgkin lymphoma	18	31	0	8	17	19	36	36	16	12	9	5	9	5	6	1	1	0	229
M9731-M9732	Multiple myeloma & immuno. neoplasms	0	0	0	0	0	0	0	1	0	1	0	0	2	2	1	0	0	0	7
M982-M983	Lymphoid leukemia	57	8	1	12	18	4	0	0	3	2	3	3	2	3	0	3	0	0	119
M984-M993	Myeloid leukemia	0	0	0	3	3	1	1	3	0	0	2	1	0	2	0	0	0	0	16
M994	Other leukemia	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
C42.0, C42.2-4	Other lymphatic & hematopoietic tissue	0	0	0	0	0	1	1	1	0	1	1	0	0	1	0	0	1	0	7
~	Other reportable CNS neoplasms	0	0	3	3	2	11	11	3	8	1	3	2	4	2	1	0	0	55	1
	<b>Total</b>	<b>157</b>	<b>99</b>	<b>35</b>	<b>95</b>	<b>174</b>	<b>194</b>	<b>266</b>	<b>281</b>	<b>253</b>	<b>251</b>	<b>253</b>	<b>234</b>	<b>285</b>	<b>280</b>	<b>149</b>	<b>72</b>	<b>36</b>	<b>9</b>	<b>3123</b>

\*Diseases are listed according to the International Classification of Diseases for Oncology, Third edition (ICD-O-3) codes.

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

**Table 13 - Morphology, site, and gender, 2019**

ICD-O-3 Code	Morphology	Female	Male	Total
C00 Lip	Squamous Cell Carcinoma, Nos		7	7
	Adenoid Cystic Carcinoma		2	2
	Squamous Cell Carcinoma, Keratinizing, Nos		1	1
C01-02 Tongue	Squamous Cell Carcinoma, Nos	44	70	114
	Squamous Cell Carcinoma, Keratinizing, Nos	3	2	5
	Adenoid Cystic Carcinoma	1		1
	Mucoepidermoid Carcinoma	1		1
	Squamous Cell Carcinoma In Situ, Nos		1	1
C03-06 Gum, FOM, palate, other & unspecified parts of mouth	Squamous Cell Carcinoma, Nos	20	65	85
	Squamous Cell Carcinoma, Keratinizing, Nos	3	9	12
	Mucoepidermoid Carcinoma	2	5	7
	Adenoid Cystic Carcinoma	1	5	6
	Carcinoma, Nos	1	2	3
	Adenocarcinoma, Nos	1	1	2
	Malignant Lymphoma, Large B-Cell Diffuse Nos		2	2
	Squamous Cell Carcinoma, Spindle Cell	1		1
Verrucous Carcinoma, Nos	1		1	
C07-08 Parotid and other major Salivary glands	Mucoepidermoid Carcinoma	7	11	18
	Carcinoma, Nos	3	8	11
	Adenoid Cystic Carcinoma	7	2	9
	Acinar Cell Carcinoma	3	3	6
	Malignant Lymphoma, Large B-Cell Diffuse Nos		2	2
	Squamous Cell Carcinoma, Nos	1	1	2
	Adenocarcinoma, Nos		1	1
	Lymphoepithelial Carcinoma		1	1
	Neoplasm, Malignant		1	1
Secretory Carcinoma Of Breast		1	1	
C09-C10 Tonsil & oropharynx	Malignant Lymphoma, Large B-Cell Diffuse Nos	3	3	6
	Squamous Cell Carcinoma, Nos	1	4	5
	Burkitt Lymphoma, Nos		3	3
	Carcinoma, Nos		1	1
	Cribriform Carcinoma, Nos	1		1
C11 Nasopharynx	Carcinoma, Nos	14	18	32

	Carcinoma, Undifferentiated, Nos	12	16	28
	Squamous Cell Carcinoma, Nos	1	3	4
	Squamous Cell Carcinoma, Large Cell, Nonkeratinizing, Nos		2	2
	Malignant Lymphoma, Large B-Cell Diffuse Nos		1	1
	Malignant Melanoma, Nos	1		1
	Squamous Cell Carcinoma, Keratinizing, Nos		1	1
C12-C13 Pyriform sinus & Hypopharynx	Squamous Cell Carcinoma, Nos	12	23	35
	Squamous Cell Carcinoma, Keratinizing, Nos	3	1	4
	Basaloid Squamous Cell Carcinoma		1	1
C14 Other & ill-defined sites in lip, oral cavity & pharynx				
	Squamous Cell Carcinoma, Nos		2	2
C15 Esophagus	Squamous Cell Carcinoma, Nos	97	79	176
	Adenocarcinoma, Nos		11	11
	Squamous Cell Carcinoma, Keratinizing, Nos	2	9	11
	Carcinoma, Nos	2	1	3
	Neuroendocrine Carcinoma, Nos	1		1
C16 Stomach	Adenocarcinoma, Nos	20	57	77
	Signet Ring Cell Carcinoma	23	40	63
	Gastrointestinal Stromal Sarcoma	9	8	17
	Squamous Cell Carcinoma, Nos	6	6	12
	Malignant Lymphoma, Large B-Cell Diffuse Nos	1	6	7
	Neuroendocrine Carcinoma, Nos	3	1	4
	Carcinoma, Nos	1	2	3
	Adenocarcinoma In Villous Adenoma	1	1	2
	Squamous Cell Carcinoma, Keratinizing, Nos		2	2
	Adenocarcinoma In Adenomatous Polyp		1	1
	Adenocarcinoma In Tubulovillous Adenoma		1	1
	Marginal Zone B-Cell Lymphoma, Nos		1	1
	Mucinous Adenocarcinoma		1	1
Pseudosarcomatous Carcinoma		1	1	
C17 Small intestine	Gastrointestinal Stromal Sarcoma	2	8	10
	Adenocarcinoma, Nos	2	6	8
	Neuroendocrine Carcinoma, Nos	1	4	5
	Burkitt Lymphoma, Nos	1	2	3

	Malignant Lymphoma, Large B-Cell Diffuse Nos		1	1
	Mucinous Adenocarcinoma	1		1
	Signet Ring Cell Carcinoma		1	1
C18 Colon	Adenocarcinoma, Nos	35	63	98
	Mucinous Adenocarcinoma	6	16	22
	Signet Ring Cell Carcinoma	2	6	8
	Adenocarcinoma In Tubulovillous Adenoma	3	4	7
	Malignant Lymphoma, Large B-Cell Diffuse Nos	2	3	5
	Adenocarcinoma In Villous Adenoma		2	2
	Adenocarcinoma In Adenomatous Polyp	1		1
	Burkitt Lymphoma, Nos	1		1
	Gastrointestinal Stromal Sarcoma	1		1
	Neuroendocrine Carcinoma, Nos		1	1
	Tubular Adenocarcinoma		1	1
C19-C21 Rectosigmoid junction, rectum, anal canal, and anus	Adenocarcinoma, Nos	54	120	174
	Signet Ring Cell Carcinoma	27	47	74
	Adenocarcinoma In Tubulovillous Adenoma	17	16	33
	Mucinous Adenocarcinoma	10	14	24
	Neoplasm, Malignant	1	2	3
	Squamous Cell Carcinoma, Nos		3	3
	Adenocarcinoma In Adenomatous Polyp		2	2
	Adenocarcinoma In Villous Adenoma	1	1	2
	Carcinoma, Nos	1	1	2
	Neuroendocrine Carcinoma, Nos		2	2
	Squamous Cell Carcinoma, Keratinizing, Nos		2	2
	Squamous Cell Carcinoma, Large Cell, Nonkeratinizing, Nos		2	2
	Gastrointestinal Stromal Sarcoma		1	1
	Malignant Melanoma, Nos		1	1
C22 Liver & intrahepatic bile ducts	Hepatocellular Carcinoma, Nos	36	66	102
	Cholangiocarcinoma	9	10	19
	Hepatoblastoma	4	7	11
	Adenocarcinoma, Nos		1	1
	Malignant Lymphoma, Large B-Cell Diffuse Nos		1	1
	Yolk Sac Tumor	1		1
C23-C24 Gallbladder &	Adenocarcinoma, Nos	31	33	64



other and unspecified parts of biliary tract	Cholangiocarcinoma	6	4	10
	Adenocarcinoma, Intestinal Type	2	5	7
	Neoplasm, Malignant	4	3	7
	Carcinoma, Nos	1	2	3
	Signet Ring Cell Carcinoma	1	2	3
	Adenocarcinoma In Villous Adenoma	2		2
	Adenosquamous Carcinoma		2	2
	Adenocarcinoma In Tubulovillous Adenoma		1	1
	Klatskin Tumor	1		1
	Malignant Lymphoma, Large B-Cell Diffuse Nos		1	1
	Neuroendocrine Carcinoma, Nos		1	1
	Squamous Cell Carcinoma, Nos		1	1
C25 Pancreas	Adenocarcinoma, Nos	19	35	54
	Neuroendocrine Carcinoma, Nos	7	10	17
	Neoplasm, Malignant	4	1	5
	Carcinoma, Nos	1	3	4
	Malignant Lymphoma, Large B-Cell Diffuse Nos		1	1
	Mucinous Adenocarcinoma		1	1
	Solid Pseudopapillary Carcinoma	1		1
C30-C31 Nasal cavity, middle ear and accessory sinuses	Squamous Cell Carcinoma, Nos	6	3	9
	Adenoid Cystic Carcinoma	3	4	7
	Carcinoma, Nos	1	1	2
	Malignant Lymphoma, Large B-Cell Diffuse Nos	1	1	2
	Carcinoma, Undifferentiated, Nos		1	1
	Ewing Sarcoma	1		1
	Malignant Melanoma, Nos	1		1
	Malignant Myoepithelioma		1	1
	Nk/T-Cell Lymphoma, Nasal And Nasal-Type		1	1
	Small Cell Carcinoma, Nos		1	1
	Squamous Cell Carcinoma, Large Cell, Nonkeratinizing, Nos		1	1
Squamous Cell Carcinoma, Spindle Cell		1	1	
C32 Larynx	Squamous Cell Carcinoma, Nos	6	41	47
	Squamous Cell Carcinoma, Keratinizing, Nos	1	5	6
	Adenoid Cystic Carcinoma	2		2
	Carcinoma In Situ, Nos		2	2

	Squamous Cell Carcinoma In Situ, Nos	1	1	2
	Basaloid Squamous Cell Carcinoma		1	1
	Chondrosarcoma, Nos		1	1
C33-C34 Trachea, bronchus and lung	Adenocarcinoma, Nos	21	30	51
	Squamous Cell Carcinoma, Nos	2	48	50
	Small Cell Carcinoma, Nos	2	29	31
	Acinar Cell Carcinoma	8	2	10
	Neoplasm, Malignant	5	3	8
	Neuroendocrine Carcinoma, Nos	2	5	7
	Non-Small Cell Carcinoma		3	3
	Carcinoma, Nos	2		2
	Ewing Sarcoma	1	1	2
	Adenocarcinoma With Mixed Subtypes		1	1
	Combined Small Cell Carcinoma	1		1
	Fetal Adenocarcinoma		1	1
	Malignant Lymphoma, Large B-Cell Diffuse Nos		1	1
	Mucinous Adenocarcinoma	1		1
	Mucoepidermoid Carcinoma		1	1
Squamous Cell Carcinoma, Keratinizing, Nos		1	1	
C37-C38 Thymus, heart, mediastinum & pleura	Malignant Lymphoma, Large B-Cell Diffuse Nos	1	6	7
	Neuroendocrine Carcinoma, Nos		3	3
	Thymoma, Type B2, Malignant		3	3
	Yolk Sac Tumor	1	2	3
	Germ Cell Tumor, Nonseminomatous		2	2
	Mesothelioma, Malignant	2		2
	Follicular Lymphoma, Grade 2	1		1
	Hodgkin Lymphoma, Nos	1		1
	Mixed Germ Cell Tumor		1	1
	Neoplasm, Malignant	1		1
	Small Cell Carcinoma, Nos	1		1
	Thymoma, Type Ab, Malignant		1	1
	Thymoma, Type B2, Nos		1	1
Thymoma, Type B3, Malignant		1	1	
C40-41 Bones, Joints & Articular Cartilage	Osteosarcoma, Nos	19	34	53
	Ewing Sarcoma	17	28	45

	Chondrosarcoma, Nos	5	6	11
	Malignant Lymphoma, Large B-Cell Diffuse Nos	2	6	8
	Chondroblastic Osteosarcoma		5	5
	Spindle Cell Sarcoma	1	1	2
	Burkitt Lymphoma, Nos		1	1
	Dedifferentiated Chondrosarcoma		1	1
	Hodgkin Lymphoma, Nos	1		1
	Langerhans Cell Histiocytosis, Multifocal		1	1
	Langerhans Cell Histiocytosis, Nos		1	1
	Plasmacytoma, Nos		1	1
	Sarcoma, Nos		1	1
	Telangiectatic Osteosarcoma		1	1
C42 Hematopoietic and reticuloendothelial system	Precursor B-Cell Lymphoblastic Leukemia	46	73	119
	B-Cell Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma	27	61	88
	Multiple Myeloma	8	11	19
	Acute Myeloid Leukemia, Nos	5	9	14
	Precursor T-Cell Lymphoblastic Leukemia	2	8	10
	Chronic Myeloid Leukemia, Nos	3	5	8
	Myelodysplastic Syndrome, Nos	3	4	7
	Chronic Myelogenous Leukemia, Bcr/Abl Positive	3	3	6
	Essential Thrombocythemia	2	3	5
	Acute Monocytic Leukemia		1	1
	Acute Myeloid Leukemia Without Maturation Fab M1		1	1
	Acute Myeloid Leukemia, Minimal Differentiation Fab M0		1	1
	Acute Myelomonocytic Leukemia Fab M4		1	1
	Acute Promyelocytic Leukemia,		1	1
	Chronic Myelomonocytic Leukemia, Nos	1		1
	Chronic Myeloproliferative Disease, Nos		1	1
	Hairy Cell Leukemia		1	1
	Langerhans Cell Histiocytosis, Nos	1		1
	Malignant Lymphoma, Large B-Cell Diffuse Nos		1	1
	Mixed Phenotype Acute Leukemia, B/Myeloid, Nos	1		1
Myelodysplastic Syndrome With 5q Deletion (5q-) Syndrome		1	1	
Precursor Cell Lymphoblastic Leukemia, Nos		1	1	

	Refractory Cytopenia With Multilineage Dysplasia	1		1
C44 Skin	Basal Cell Carcinoma, Nodular	45	44	89
	Squamous Cell Carcinoma, Nos	19	62	81
	Malignant Melanoma, Nos	12	17	29
	Basal Cell Carcinoma, Nos	9	17	26
	Squamous Cell Carcinoma, Keratinizing, Nos	8	5	13
	Dermatofibrosarcoma, Nos	1	6	7
	Sebaceous Adenocarcinoma	3	1	4
	Adenoid basal Cell Carcinoma, Nos		3	3
	Squamous Cell Carcinoma In Situ, Nos	1	2	3
	Basaloid Squamous Cell Carcinoma	1	1	2
	Nodular Hidradenoma, Malignant	1	1	2
	Adenosquamous Carcinoma		1	1
	Basosquamous Carcinoma	1		1
	Carcinoma In Situ, Nos		1	1
	Carcinoma, Nos	1		1
	Cutaneous T-Cell Lymphoma, Nos	1		1
	Langerhans Cell Histiocytosis, Nos		1	1
	Mycosis Fungoides	1		1
	Myeloid Sarcoma	1		1
	Nodular Melanoma		1	1
Skin Appendage Carcinoma		1	1	
	Squamous Cell Carcinoma, Spindle Cell	1		1
C47 Periph. nerves & auto-immune N.S.	Malignant Peripheral Nerve Sheath Tumor	2	1	3
	Angiomyosarcoma		1	1
C48 Retroperitoneum & Peritoneum	Dysgerminoma	2		2
	Embryonal Rhabdomyosarcoma, Nos	1		1
	Liposarcoma, Nos		1	1
C49 Connective, subcutaneous & other soft tissues	Synovial Sarcoma, Nos	11	16	27
	Spindle Cell Sarcoma	13	8	21
	Undifferentiated Sarcoma	7	13	20
	Leiomyosarcoma Nos	4	4	8
	Embryonal Rhabdomyosarcoma, Nos	3	4	7
	Ewing Sarcoma	2	5	7
	Fibromyxosarcoma	2	2	4

	Liposarcoma, Well Differentiated		4	4
	Dedifferentiated Liposarcoma	3		3
	Epithelioid Sarcoma	2	1	3
	Myxoid Liposarcoma	2	1	3
	Pleomorphic Liposarcoma	1	2	3
	Synovial Sarcoma, Biphasic	2	1	3
	Clear Cell Sarcoma, Nos	1	1	2
	Giant Cell Sarcoma		2	2
	Rhabdomyosarcoma, Nos	1	1	2
	Sarcoma, Nos	1	1	2
	Spindle Cell Rhabdomyosarcoma		2	2
	Synovial Sarcoma, Spindle Cell		2	2
	Alveolar Rhabdomyosarcoma	1		1
	Angiomyosarcoma		1	1
	Dermatofibrosarcoma, Nos		1	1
	Epithelioma, Malignant	1		1
	Kaposi Sarcoma		1	1
	Liposarcoma, Nos		1	1
	Malignant Fibrous Histiocytoma		1	1
	Malignant Lymphoma, Large B-Cell Diffuse Nos		1	1
	Pleomorphic Rhabdomyosarcoma, Adult Type		1	1
C50 Breast	Infiltrating Duct Carcinoma, Nos	1082	8	1090
	Lobular Carcinoma, Nos	64		64
	Infiltrating Duct Mixed With Other Types Of Carcinoma	23		23
	Ductal Carcinoma In Situ, Solid Type	14		14
	Carcinoma, Nos	12		12
	Metaplastic Carcinoma, Nos	11		11
	Infiltrating Duct And Lobular Carcinoma	8		8
	Inflammatory Carcinoma	6		6
	Mucinous Adenocarcinoma	6		6
	Paget Disease And Infiltrating Duct Carcinoma Of Breast	5	1	6
	Comedocarcinoma, Noninfiltrating	5		5
	Neoplasm, Malignant	5		5
	Papillary Carcinoma, Nos	5		5
Phyllodes Tumor, Malignant	4		4	

	Malignant Lymphoma, Large B-Cell Diffuse Nos	3		3
	Intraductal Micropapillary Carcinoma	2		2
	Lobular Carcinoma In Situ, Nos	2		2
	Paget Disease And Intraductal Carcinoma Of Breast	2		2
	Paget Disease, Mammary	2		2
	Apocrine Adenocarcinoma	1		1
	Intraductal Carcinoma, Noninfiltrating, Nos	1		1
	Papillary Carcinoma In Situ	1		1
C51-C52 Vulva & Vagina	Squamous Cell Carcinoma, Keratinizing, Nos	5		5
	Clear Cell Adenocarcinoma, Nos	4		4
	Squamous Cell Carcinoma, Nos	4		4
	Adenocarcinoma, Nos	2		2
	Epithelioid Sarcoma	1		1
	Malignant Melanoma, Nos	1		1
	Squamous Cell Carcinoma, Large Cell, Nonkeratinizing, Nos	1		1
C53 Cervix uteri	Squamous Cell Carcinoma, Large Cell, Nonkeratinizing, Nos	42		42
	Squamous Cell Carcinoma, Nos	42		42
	Squamous Cell Carcinoma, Keratinizing, Nos	39		39
	Adenocarcinoma, Nos	10		10
	Carcinoma, Nos	6		6
	Adenocarcinoma, Endocervical Type	4		4
	Endometrioid Adenocarcinoma, Nos	4		4
	Clear Cell Adenocarcinoma, Nos	3		3
	Adenosquamous Carcinoma	2		2
	Carcinoma In Situ, Nos	2		2
	Squamous Cell Carcinoma In Situ, Nos	2		2
	Carcinoma, Undifferentiated, Nos	1		1
	Malignant Lymphoma, Large B-Cell Diffuse Nos	1		1
	Mucinous Adenocarcinoma, Endocervical Type	1		1
	Neoplasm, Malignant	1		1
	Neuroendocrine Carcinoma, Nos	1		1
	Serous Cystadenocarcinoma, Nos	1		1
Squamous Cell Carcinoma, Spindle Cell	1		1	
C54 Corpus uteri	Endometrioid Adenocarcinoma, Nos	64		64
	Serous Cystadenocarcinoma, Nos	16		16

	Carcinosarcoma, Nos	6		6
	Endometrial Stromal Sarcoma, Nos	4		4
	Carcinoma, Nos	2		2
	Adenocarcinoma, Nos	1		1
	Adenosarcoma	1		1
	Choriocarcinoma, Nos	1		1
	Endometrial Stromal Sarcoma, Low Grade	1		1
	Leiomyosarcoma Nos	1		1
	Mixed Cell Adenocarcinoma	1		1
	Mullerian Mixed Tumor	1		1
	Papillary Serous Cystadenocarcinoma	1		1
	Squamous Cell Carcinoma, Nos	1		1
	Stromal Sarcoma, Nos	1		1
C55 Uterus	Choriocarcinoma, Nos	3		3
	Leiomyosarcoma Nos	2		2
	Dysgerminoma	1		1
	Serous Cystadenocarcinoma, Nos	1		1
	Spindle Cell Sarcoma	1		1
	Stromal Sarcoma, Nos	1		1
C56 Ovary	Serous Cystadenocarcinoma, Nos	35		35
	Teratoma, Malignant, Nos	11		11
	Dysgerminoma	10		10
	Mucinous Adenocarcinoma	9		9
	Endometrioid Adenocarcinoma, Nos	8		8
	Mixed Germ Cell Tumor	8		8
	Yolk Sac Tumor	8		8
	Clear Cell Adenocarcinoma, Nos	7		7
	Carcinoma, Nos	3		3
	Neoplasm, Malignant	3		3
	Papillary Serous Cystadenocarcinoma	3		3
	Granulosa Cell Tumor, Malignant	2		2
	Adenocarcinoma, Nos	1		1
	Carcinosarcoma, Nos	1		1
	Choriocarcinoma, Nos	1		1
	Germ Cell Tumor, Nonseminomatous	1		1

	Granular Cell Tumor, Malignant	1		1
	Mixed Cell Adenocarcinoma	1		1
	Mucinous Cystadenocarcinoma, Nos	1		1
	Squamous Cell Carcinoma, Nos	1		1
C57 Other and unspecified female genital organs	Carcinosarcoma, Nos	1		1
	Clear Cell Adenocarcinoma, Nos	1		1
	Serous Cystadenocarcinoma, Nos	1		1
C58 Placenta	Choriocarcinoma, Nos	1		1
C60 Penis	Squamous Cell Carcinoma, Keratinizing, Nos		1	1
	Squamous Cell Carcinoma, Nos		1	1
C61 Prostate	Adenocarcinoma, Nos		253	253
	Neoplasm, Malignant		7	7
	Carcinoma, Nos		2	2
	Neuroendocrine Carcinoma, Nos		1	1
	Transitional Cell Carcinoma, Nos		1	1
C62-63 Testis & other male genital organs	Mixed Germ Cell Tumor		72	72
	Seminoma, Nos		65	65
	Yolk Sac Tumor		17	17
	Embryonal Carcinoma, Nos		16	16
	Teratoma, Malignant, Nos		6	6
	Neoplasm, Malignant		5	5
	Germ Cell Tumor, Nonseminomatous		2	2
	Germinoma		2	2
	Squamous Cell Carcinoma, Nos		2	2
	Burkitt Lymphoma, Nos		1	1
	Carcinoma, Nos		1	1
	Dedifferentiated Liposarcoma		1	1
	Embryonal Rhabdomyosarcoma, Nos		1	1
	Granulosa Cell Tumor, Malignant		1	1
	Leiomyosarcoma Nos		1	1
	Neuroendocrine Carcinoma, Nos		1	1
	Spermatocytic Seminoma		1	1
Stromal Sarcoma, Nos		1	1	
C64-C66 Kidney, renal pelvis and ureter	Renal Cell Carcinoma, Nos	47	70	117
	Nephroblastoma, Nos	12	15	27



	Renal Cell Carcinoma, Chromophobe Type	4	9	13
	Neoplasm, Malignant	1	3	4
	Clear Cell Adenocarcinoma, Nos	1	2	3
	Papillary Adenocarcinoma, Nos	1	2	3
	Carcinoma, Nos		2	2
	Renal Cell Carcinoma, Sarcomatoid		2	2
	Transitional Cell Carcinoma, Nos		2	2
	Clear Cell Sarcoma Of Kidney		1	1
	Ewing Sarcoma		1	1
	Papillary Transitional Cell Carcinoma		1	1
C67 Bladder	Papillary Transitional Cell Carcinoma	9	48	57
	Transitional Cell Carcinoma, Nos	4	24	28
	Squamous Cell Carcinoma, Nos	1	1	2
	Neuroendocrine Carcinoma, Nos		1	1
	Transitional Cell Carcinoma, Spindle Cell		1	1
C69 Eye and Adnexa	Retinoblastoma, Nos	16	22	38
	Embryonal Rhabdomyosarcoma, Nos	2		2
	Retinoblastoma, Differentiated	1	1	2
	Adenoid Cystic Carcinoma	1		1
	Carcinoma, Nos		1	1
	Malignant Lymphoma, Large B-Cell Diffuse Nos		1	1
	Retinoblastoma, Undifferentiated	1		1
	Spindle Cell Melanoma, Nos	1		1
	Squamous Cell Carcinoma, Nos	1		1
C70-C71 Meninges and brain	Glioma, Malignant	26	53	79
	Astrocytoma, Nos	24	36	60
	Glioblastoma, Nos	13	37	50
	Oligodendroglioma, Nos	8	6	14
	Meningioma, Nos	6	5	11
	Astrocytoma, Anaplastic	5	2	7
	Neoplasm, Malignant		4	4
	Oligodendroglioma, Anaplastic	1	3	4
	Ependymoma, Nos		3	3
	Hemangioblastoma	1	2	3
	Medulloblastoma, Nos	3		3

	Neoplasm, Uncertain Whether Benign Or Malignant	2	1	3
	Central Neurocytoma		2	2
	Hemangiopericytoma, Malignant	1	1	2
	Meningioma, Malignant	2		2
	Pilocytic Astrocytoma		2	2
	Gemistocytic Astrocytoma		1	1
	Gliosarcoma		1	1
	Malignant Lymphoma, Large B-Cell Diffuse Nos	1		1
	Malignant Lymphoma, Non-Hodgkin, Nos		1	1
	Neurilemoma, Nos		1	1
	Pilomyxoid Astrocytoma		1	1
C72 Spinal cord, cranial nerves & other parts of CNS	Ependymoma, Nos	3	7	10
	Neurilemoma, Nos	1	4	5
	Myxopapillary Ependymoma		3	3
	Glioma, Malignant	1	1	2
	Malignant Lymphoma, Large B-Cell Diffuse Nos	1	1	2
	Neoplasm, Malignant	2		2
	Burkitt Lymphoma, Nos	1		1
	Plasmacytoma, Nos	1		1
C73 Thyroid	Papillary Carcinoma, Nos	84	43	127
	Follicular Adenocarcinoma, Nos	8	3	11
	Medullary Carcinoma, Nos	10	1	11
	Oxyphilic Adenocarcinoma	2	3	5
	Carcinoma, Anaplastic, Nos		2	2
	Carcinoma, Nos	2		2
	Papillary Microcarcinoma	2		2
	Adenocarcinoma, Nos		1	1
	Follicular Carcinoma, Minimally Invasive	1		1
	Micropapillary Carcinoma,Nos	1		1
	Neoplasm, Malignant	1		1
	Papillary Carcinoma, Encapsulated	1		1
Papillary Carcinoma, Oxyphilic Cell		1	1	
C74 Adrenal gland	Adrenal Cortical Carcinoma	4	2	6
	Pheochromocytoma, Malignant	1		1
C75 Other endocrine glands	Pituitary Adenoma, Nos	25	23	48

& related structures	Prolactinoma	2	1	3
	Craniopharyngioma		1	1
	Pineoblastoma	1		1
C76 Other & ill-defined sites	Malignant Lymphoma, Large B-Cell Diffuse Nos	3	1	4
	Burkitt Lymphoma, Nos	1	2	3
	Gastrointestinal Stromal Sarcoma	1	2	3
	Yolk Sac Tumor	1	2	3
	Carcinoma, Nos		2	2
	Seminoma, Nos		2	2
	Adenoid Cystic Carcinoma		1	1
	Dysgerminoma	1		1
	Embryonal Carcinoma, Nos		1	1
	Malignant Tumor, Clear Cell Type	1		1
	Mixed Germ Cell Tumor	1		1
	Neoplasm, Malignant	1		1
	Small Cell Carcinoma, Nos	1		1
C77 Lymph nodes, (NHL,HL)	Hodgkin Lymphoma, Mixed Cellularity, Nos	43	150	193
	Malignant Lymphoma, Large B-Cell Diffuse Nos	43	106	149
	Hodgkin Lymphoma, Nodular Sclerosis, Nos	39	54	93
	Burkitt Lymphoma, Nos	5	30	35
	Hodgkin Lymphoma, Nos	7	20	27
	Hodgkin Lymphoma, Nodular Lymphocyte Predominance	4	21	25
	Hodgkin Lymphoma, Lymphocyte-Rich		7	7
	Precursor T-Cell Lymphoblastic Lymphoma	2	5	7
	Follicular Lymphoma, Grade 3	2	3	5
	Malignant Lymphoma, Non-Hodgkin, Nos	3	2	5
	Marginal Zone B-Cell Lymphoma, Nos	3	2	5
	Anaplastic Large Cell Lymphoma, T Cell And Null Cell Type	1	3	4
	T-Cell/Histiocyte Rich Large B-Cell Lymphoma	1	3	4
	Alk Positive Large B-Cell Lymphoma	1	2	3
	Composite Hodgkin And Non-Hodgkin Lymphoma	3		3
	Follicular Lymphoma, Grade 1	1	2	3
	Follicular Lymphoma, Grade 2	1	2	3
	Mantle Cell Lymphoma		3	3
Precursor B-Cell Lymphoblastic Lymphoma	3		3	

	Mature T-Cell Lymphoma, Nos		2	2
	Angioimmunoblastic T-Cell Lymphoma		1	1
	B-Cell Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma	1		1
	Langerhans Cell Histiocytosis, Nos	1		1
	Malignant Lymphoma, Small B Lymphocytic, Nos		1	1
	Precursor Cell Lymphoblastic Lymphoma, Nos		1	1
C80 Unknown primary site	Neoplasm, Malignant	9	5	14
	Adenocarcinoma, Nos	5	3	8
	Carcinoma, Nos	5	1	6
	Yolk Sac Tumor		2	2
	Embryonal Carcinoma, Nos		1	1
	Germinoma	1		1
	Malignant Lymphoma, Large B-Cell Diffuse Nos		1	1
	Malignant Lymphoma, Non-Hodgkin, Nos		1	1
	Marginal Zone B-Cell Lymphoma, Nos		1	1
	Squamous Cell Carcinoma, Nos	1		1
<b>Grand Total</b>		<b>3323</b>	<b>3123</b>	<b>6446</b>

"NOS" is an abbreviation for Not Otherwise Specified