

# ANNUAL CANCER REGISTRY REPORT-2018, 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, and the KDC since 2010. 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 6,851 new neoplasms diagnosed or treated at the aforementioned facilities in Pakistan, from January 1, 2018 to December 31, 2018, 3254 were seen in male (47.5%) and 3597 (52.5%) in female patients. Six thousand, two hundred and seventy five (6275 (91.6%)) neoplasms were found in adults, whereas, 576 (8.4%) 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. 2018 to Dec. 2018.**

<b>Behavior</b>	<b>Age-group</b>	<b>Registered patients ( 6,628)</b>	<b>Reported neoplasm* (6,851)</b>
<b>Malignant<sup>†</sup></b>	Adults	5,763	5,823
	Pediatrics	545	555
	Total	6,308	6,378
<b>Benign<sup>‡</sup> &amp; Uncertain Behavior</b>	Adults	418	452
	Pediatrics	18	21
	Total	436	473

\* The difference in the number of registered patients and reported neoplasms is attributed to multiple malignancies and benign neoplasms diagnosed in 70 and 34 patients, respectively. Further, 119 patients have both malignant and benign neoplasm simultaneously.

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

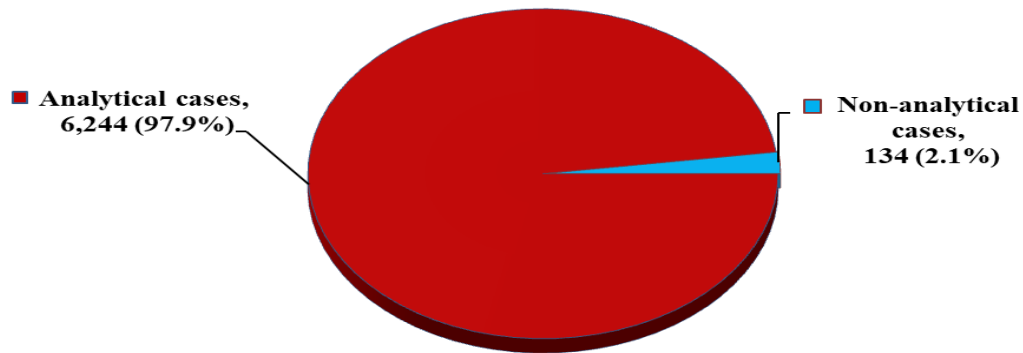
‡ Cases with behavior code /0 and /1 are considered as benign and uncertain, respectively.

§ 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 6,378 malignant cases recorded in the Registry from January 2018 to December 2018, 6244 (97.9%) were analytical cases and 134 (2.1%) 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. 2018 to Dec. 2018.**

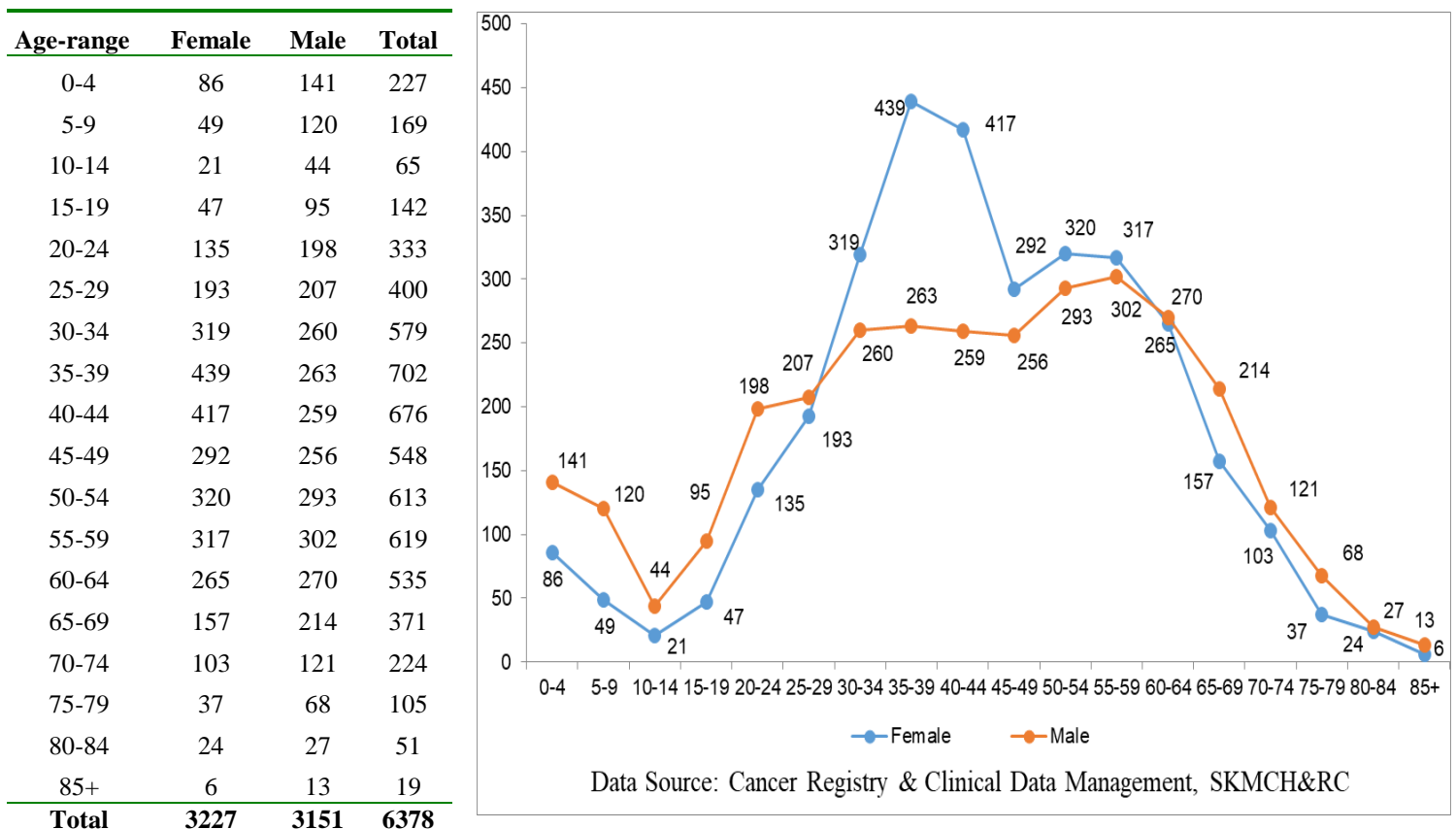


**Data Source: Cancer Registry & Clinical Data Management,**

## Distribution of malignancies

In the year 2018, a total of 6,378 malignancies were diagnosed at the hospital with 3,151 seen amongst females and 3,227 amongst males. Table 2 displays the distributions of female and male patients according to gender and age-group.

Table 2 and figure 2. Distribution of cancer cases by gender and age-group (yrs.), from Jan. 2018 to Dec. 2018.

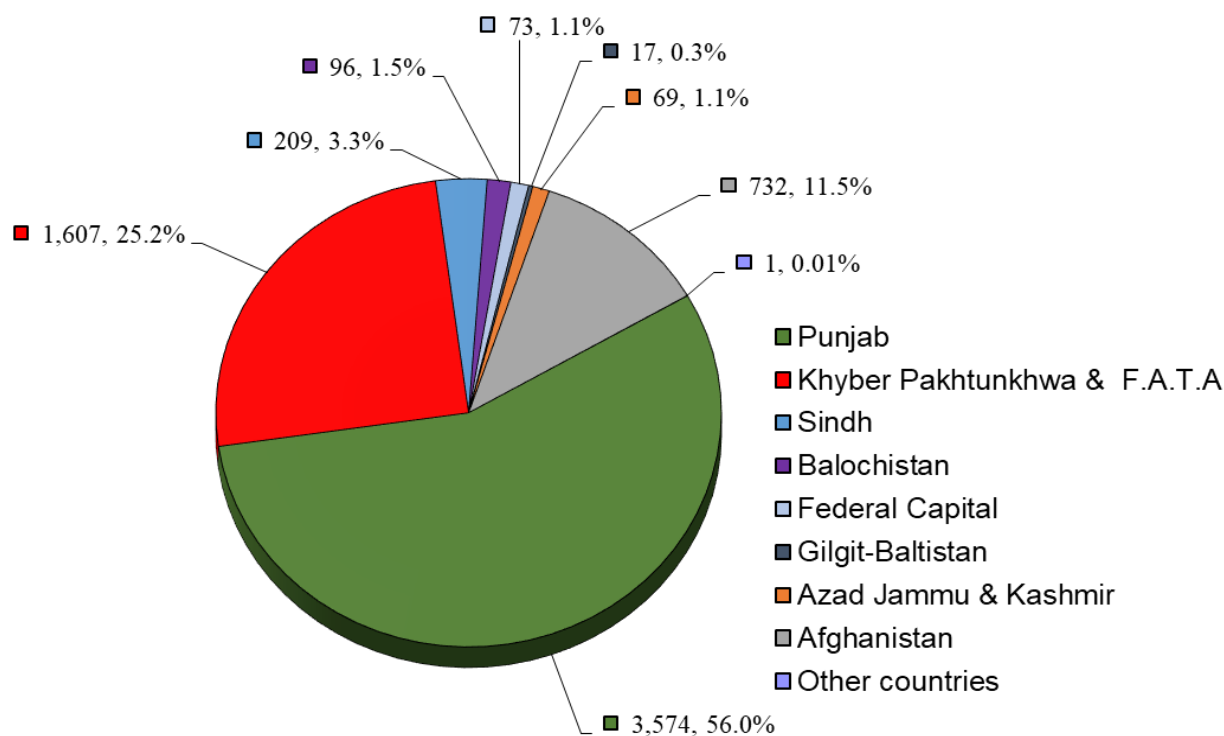


## Demographics

Of the 6,378 malignant cancers, nearly 56.0% (3,574) belonged to the province of Punjab and approximately 25.2% (1,607) 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. 2018 to Dec. 2018.**

Province/Region	Malignancies	Percentage
Punjab	3,574	56.0
Khyber Pakhtunkhwa & F.A.T.A [1]	1,607	25.2
Sindh	209	3.3
Balochistan	96	1.5
Federal Capital	73	1.1
Gilgit-Baltistan	17	0.3
Azad Jammu & Kashmir	69	1.1
Afghanistan	732	11.5
Other countries	1	0.01
<b>Total</b>	<b>6,378</b>	<b>100.0</b>



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

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

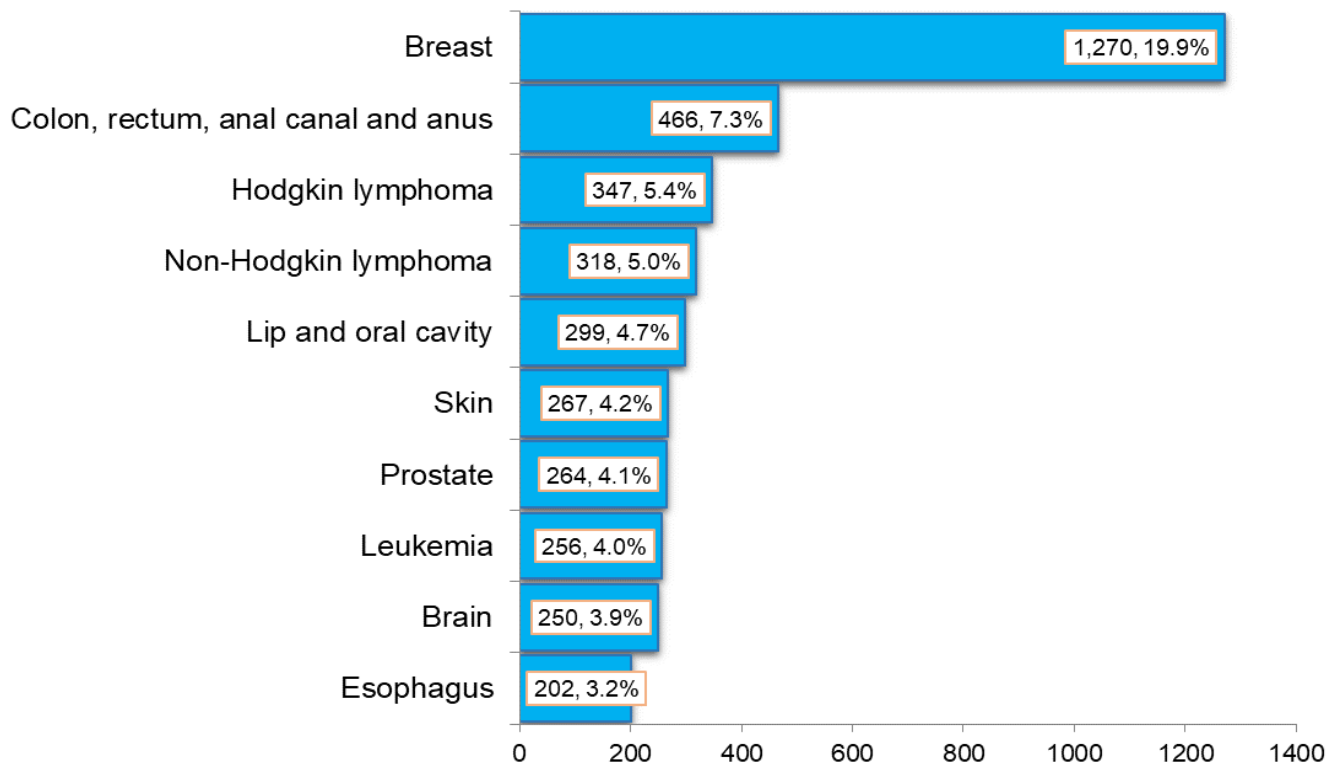
## Top ten cancers

Tables 4 to 8 show the list of the ten commonest malignancies seen at SKMCH&RC during the year 2018. Of a total of 6,378 malignancies, breast cancer was the leading malignancy with 1,270 cases accessioned into the Registry. Cancers of the colon, rectum, anal canal and anus, and Hodgkin lymphoma 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. 2018 to Dec. 2018.**

Sr. No.	ICD-O-3 Category	Count	Percentage	ICD-O-3 Code
1	Breast	1,270	19.9	C50.0 - C50.9
2	Colon, rectum, anal canal and anus	466	7.3	C18.0 - C21.8
3	Hodgkin lymphoma	347	5.4	M9650 - M9667
4	Non-Hodgkin lymphoma	318	5.0	M9590 - 91, M967 - 972
5	Lip and oral cavity	299	4.7	C00.0 - C08.9
6	Skin	267	4.2	C44
7	Prostate	264	4.1	C61.9
8	Leukemia	256	4.0	M9800 - M9948
9	Brain	250	3.9	C71.0 - C71.9
10	Esophagus	202	3.2	C15

**Figure 3. Top 10 malignancies seen amongst all age-groups, both sexes combined, from Jan. 2018 to Dec. 2018.**



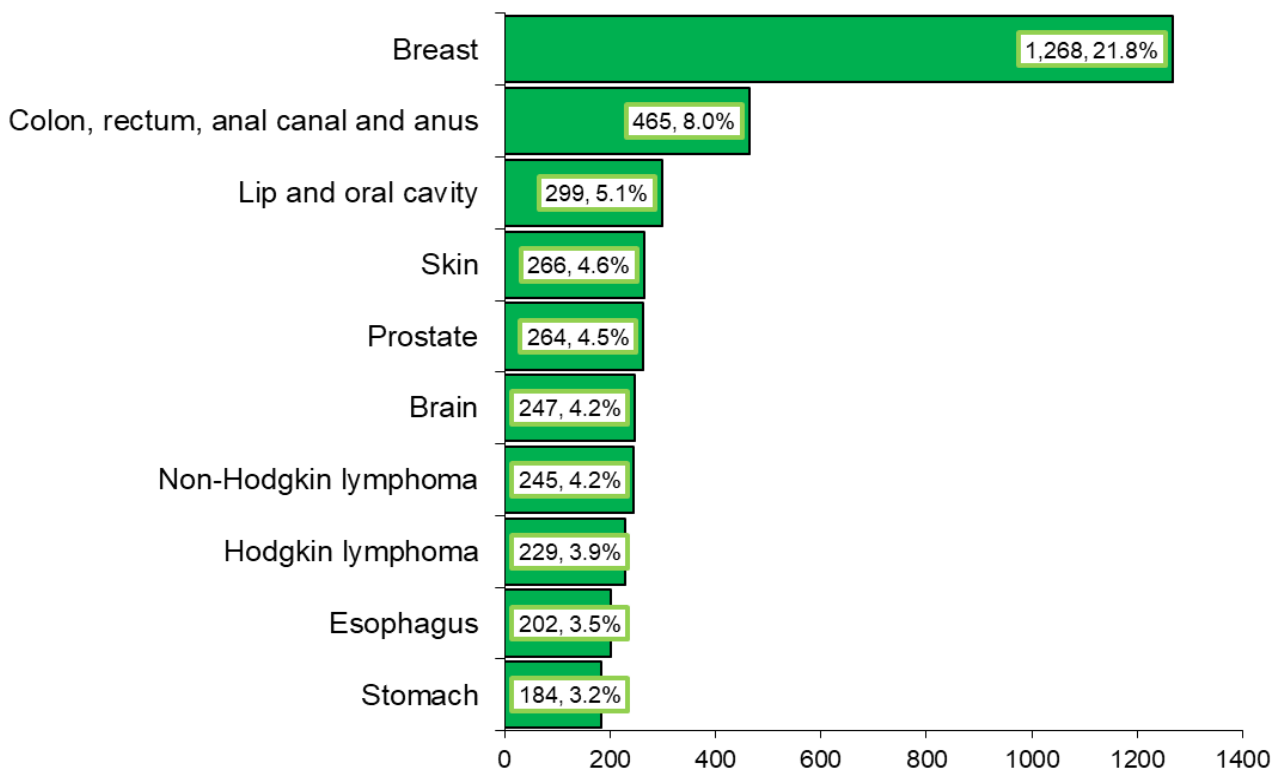
Data Source: Cancer Registry & Clinical Data Management, SKMCH&RC

Amongst adults, during the year 2018, a total of 5,823 malignancies were diagnosed or treated at SKMCH&RC. Cancers of the breast, colon, rectum, anal canal and 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. 2018 to Dec. 2018.**

Sr. No.	ICD-O-3 Category	Count	Percentage	ICD-O-3 Code
1	Breast	1268	21.8	C50.0 - C50.9
2	Colon, rectum, anal canal and anus	465	8.0	C18.0 - C21.8
3	Lip and oral cavity	299	5.1	C00.0 - C08.9
4	Skin	266	4.6	C44.0 - C44.9
5	Prostate	264	4.5	C61.9
6	Brain	247	4.2	C71.0 - C71.9
7	Non-Hodgkin lymphoma	245	4.2	M9590 - 91, M967 - 972
8	Hodgkin lymphoma	229	3.9	M9650 - M9667
9	Esophagus	202	3.5	C15
10	Stomach	184	3.2	C16

**Figure 4. Top 10 malignancies seen amongst adults (> 18 years), from Jan. 2018 to Dec. 2018.**



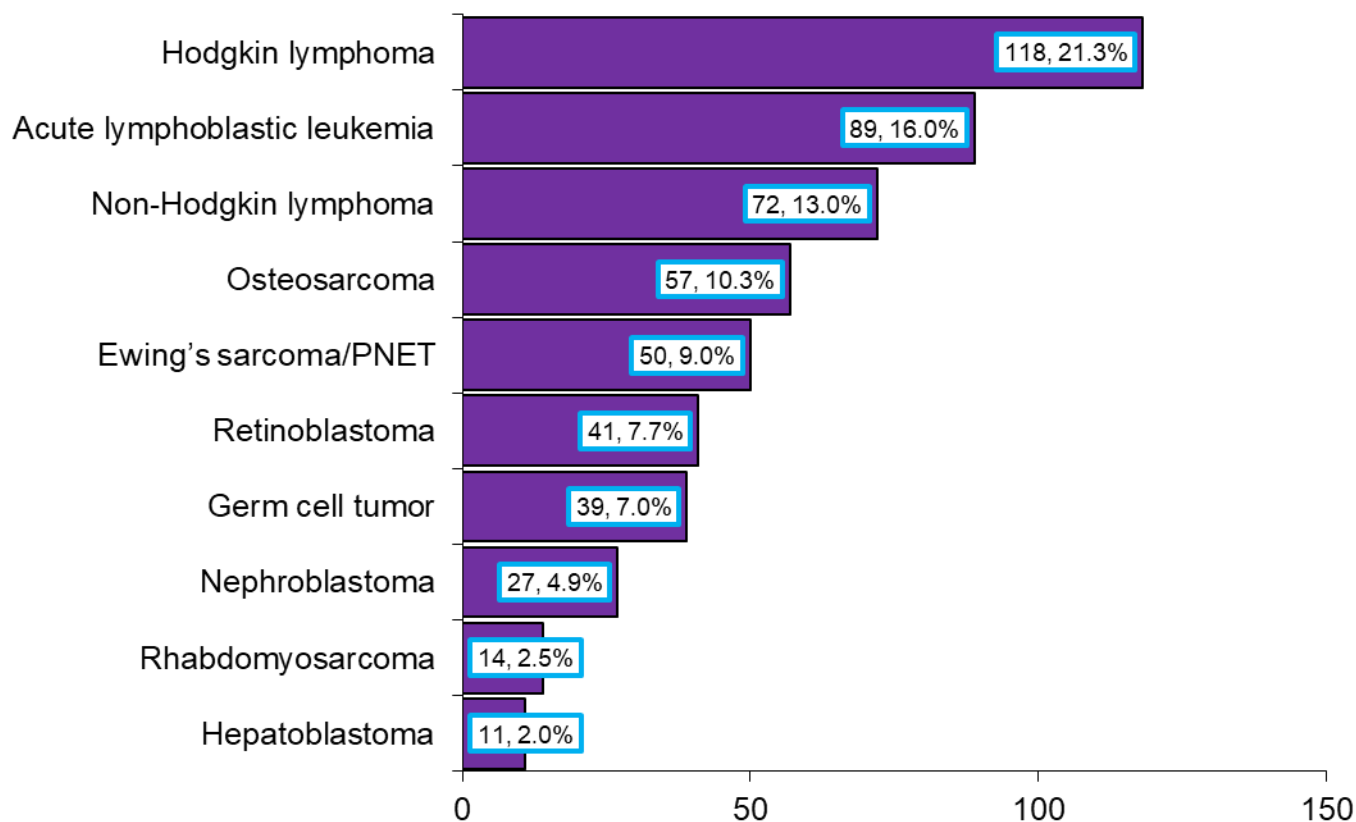
Data Source: Cancer Registry & Clinical Data Management, SKMCH&RC

In 555 childhood malignancies, using the classification based on tumor morphology, Hodgkin lymphoma, acute lymphoblastic leukemia and non-Hodgkin lymphoma 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. 2018 to Dec. 2018.**

Sr. No.	ICD-O-3 Category	Count	Percentage	ICD-O-3 Morphology Code
1	Hodgkin lymphoma	118	21.3	M9650 - M9667
2	Acute lymphoblastic leukemia	89	16.0	M982 - M983
3	Non-Hodgkin lymphoma	72	13.0	M9590 - 91, M967 - 972
4	Osteosarcoma	57	10.3	M9180 - M9195
5	Ewing's sarcoma/PNET	50	9.0	M9260
6	Retinoblastoma	41	7.4	M9510 - M9514
7	Germ cell tumor	39	7.0	M906 - M909
8	Nephroblastoma	27	4.9	M8960
9	Rhabdomyosarcoma	14	2.5	M8900 - M8921
10	Hepatoblastoma	11	2.0	M8970

**Figure 5. Top 10 malignancies seen in children (<= 18 years), from Jan. 2018 to Dec. 2018.**



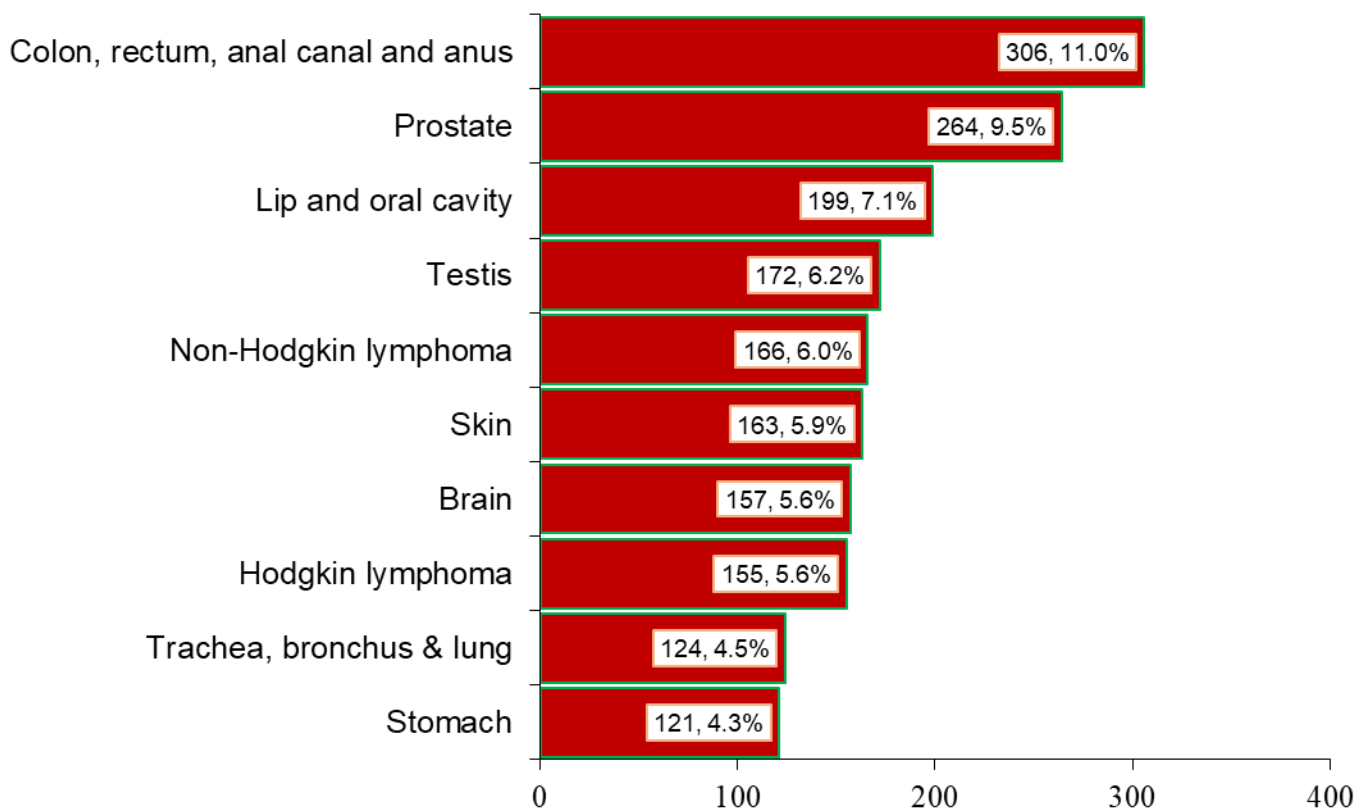
Data Source: Cancer Registry & Clinical Data Management, SKMCH&RC

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

**Table 7. Top 10 malignancies seen amongst adult males, from Jan. 2018 to Dec. 2018.**

Sr.No.	ICD Category	Count	Percentage	ICD-O-3 Code
1	Colon, rectum, anal canal and anus	306	11.0	C18 - C21.8
2	Prostate	264	9.5	C61.9
3	Lip and oral cavity	199	7.1	C00.0 - C08.9
4	Testis	172	6.2	C62
5	Non-Hodgkin lymphoma	166	6.0	M9590 - 91, M967 - 972
6	Skin	163	5.9	C44.0 - C44.9
7	Brain	157	5.6	C71.0 - C71.9
8	Hodgkin lymphoma	155	5.6	M9650 - M9667
9	Trachea, bronchus & lung	124	4.5	C33.9 - C34.9
10	Stomach	121	4.3	C16

**Figure 6. Top 10 malignancies seen amongst adult males, from Jan. 2018 to Dec. 2018.**



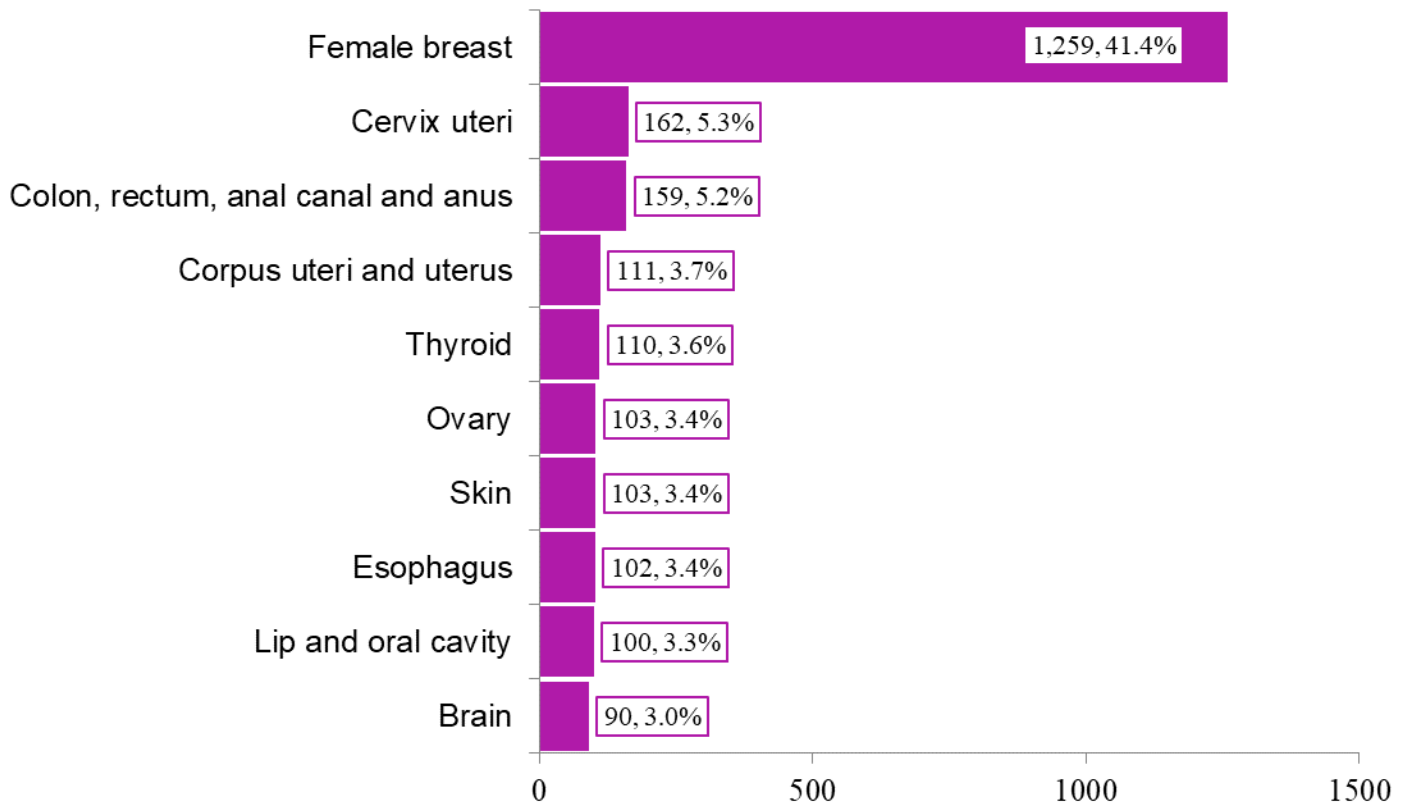
Data Source: Cancer Registry & Clinical Data Management, SKMCH&RC

The most frequent diagnosis in adult women (3,038) was breast cancer accounting for 41.4% of the cancers. Cervix uteri was ranked as the second highest cancer (5.3%) and cancers of the colon, rectum, anal canal and anus as the third common malignancy with 5.2% of the total malignancies, in females.

**Table 8. Top 10 malignancies seen amongst adult females, from Jan. 2018 to Dec. 2018.**

Sr. No.	ICD Category	Count	Percentage	ICD-O 3 Code
1	Female breast	1,259	41.4	C50.0 - C50.9
2	Cervix uteri	162	5.3	C53.0 - C53.9
3	Colon, rectum, anal canal and anus	159	5.2	C18 - C21.8
4	Corpus uteri and uterus	111	3.7	C54.0 - C55.9
5	Thyroid	110	3.6	C73.9
6	Ovary	103	3.4	C56.9
7	Skin	103	3.4	C44.0 - C44.9
8	Esophagus	102	3.4	C15 - C15.9
9	Lip and oral cavity	100	3.3	C00.0 - C08.9
10	Brain	90	3.0	C71.0 - C71.9

**Figure 7. Top 10 malignancies seen amongst adult females, from Jan. 2018 to Dec. 2018.**



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



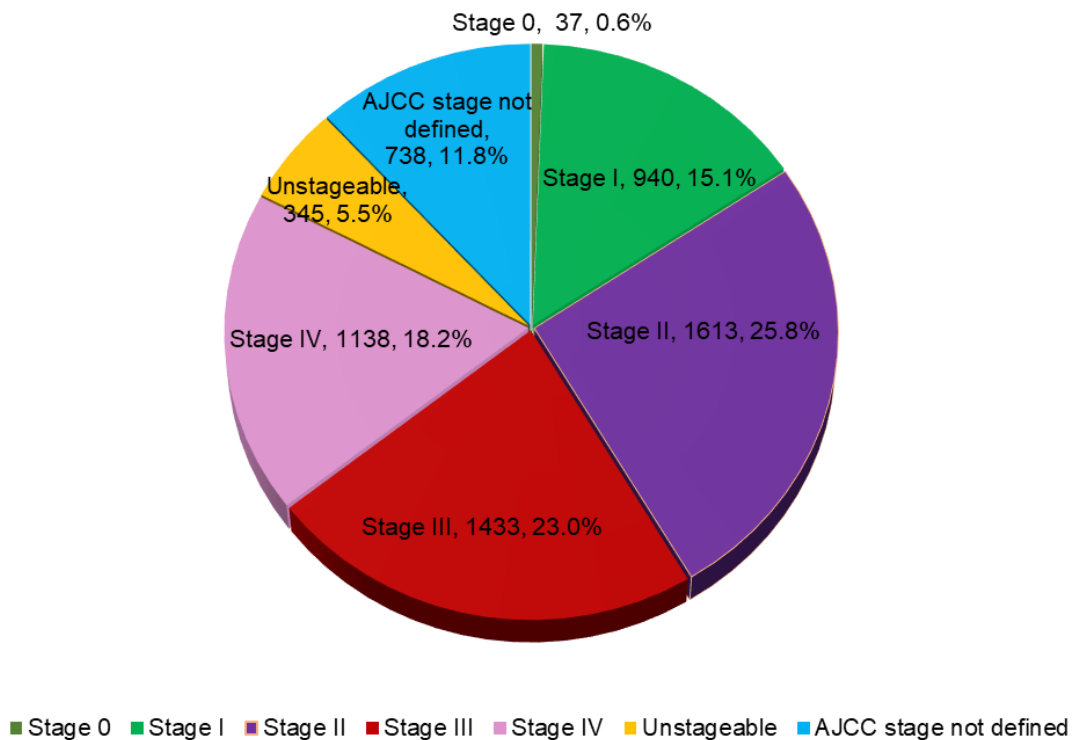
## Staging

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 2018, cancer staging for 6,244 analytical cases (Class of Case 0, 1, 2) showed that 37 (0.6%) cases fell into 0 or in situ category, 940 (15.1%) in Stage I, 1,613 (25.8%) in Stage II, 1,433 (23.0%) cases in Stage III, and 1138 (23.0%) in Stage IV, (table 9); 344 (5.5%) cases were unstageable and 738 (11.8%) had no AJCC stage defined for that site.

**Table 9. TNM Stage of cancer patients at SKMCH&RC, from Jan. 2018 to Dec. 2018.**

<b>AJCC Stage</b>	<b>Count</b>	<b>Percentage</b>
Stage 0	37	0.6
Stage I	940	15.1
Stage II	1,613	25.8
Stage III	1,433	23.0
Stage IV	1,138	18.2
Unstageable	345	5.5
AJCC stage not defined	738	11.8
<b>Total</b>	<b>6,244</b>	<b>100.0</b>

**Figure 8. TNM stage of cancer patients at SKMCH&RC, from Jan. 2018 to Dec. 2018.**



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

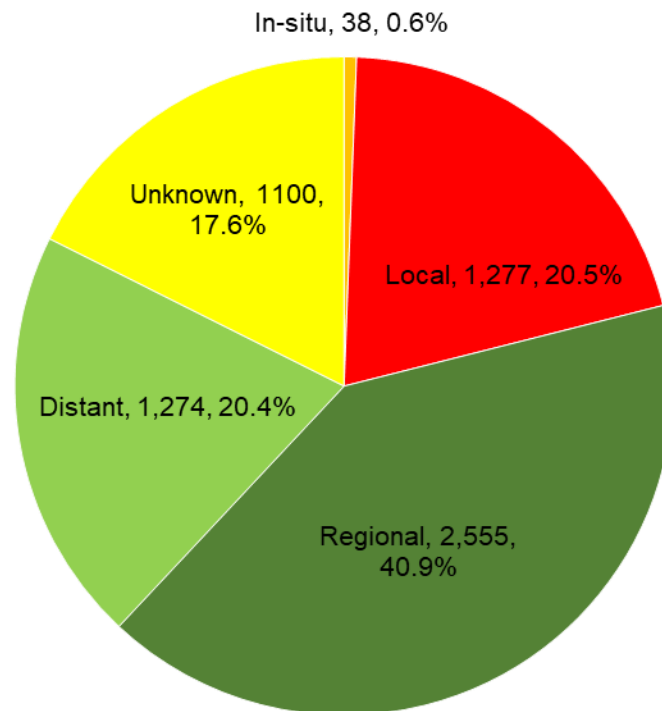
## Summary Stage

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 2018 reflects that there were 0.6% in situ cases, 20.5% localized cancers, 40.9% regional cases, 20.4% distant, and there were 17.6% cases in which the summary stage was unknown.

**Table 10. Classification of patients according to the SEER summary stage, from Jan. 2018 to Dec. 2018.**

<b>SEER Summary Stage</b>	<b>Count</b>	<b>Percentage</b>
In situ	38	0.6
Local	1,277	20.5
Regional	2,555	40.9
Distant	1,274	20.4
Unknown	1100	17.6
<b>Total</b>	<b>6,244</b>	<b>100.0</b>

**Figure 9. Classification according to the SEER Summary Stage, from Jan. 2018 to Dec. 2018.**



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. 2018 to Dec. 2018.**

<b>Grade/Differentiation/Immunophenotype</b>	<b>Count</b>	<b>Percentage</b>
Grade I	397	6.4
Grade II	1,820	29.1
Grade III	1,321	21.2
Grade IV	95	1.5
T-cell	25	0.4
B-cell	381	6.1
Grade/differentiation/immunophenotype not determined, not stated, or not applicable	2,204	35.3
<b>Total</b>	<b>6,244</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 and 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, 2018**

**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	0	0	0	0	0	0	0	0	0
C01-C02	Tongue	0	0	0	0	0	0	3	2	7	10	5	10	5	3	1	2	1	0	49
C03	Gum	0	0	0	0	0	0	1	0	2	2	1	2	0	1	0	0	0	1	10
C04-C06	Floor and other parts of mouth	0	0	0	0	0	1	2	2	2	1	3	4	2	1	2	0	0	0	20
C07-C08	Salivary gland	0	0	0	0	5	0	2	4	4	3	2	0	0	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	3	3	5	2	5	2	4	2	1	1	0	0	0	0	0	28
C12-C13	Pyiform sinus & Hypopharynx	0	0	0	0	1	3	2	2	1	2	1	2	1	0	0	0	0	0	15
C14	Other & ill-defined lip, oral cavity, pharynx	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C15	Esophagus	0	0	0	0	2	4	11	12	25	14	9	17	8	0	0	0	0	0	102
C16	Stomach	0	0	0	0	1	1	5	8	17	6	7	7	5	2	1	2	1	0	63
C17	Small intestine	0	0	0	1	0	0	0	2	0	0	2	0	1	0	0	0	0	0	6
C18	Colon	0	0	0	0	0	2	3	4	7	5	6	8	7	4	1	0	1	0	48
C19-C21	Rectosigmoid, rectum, anal canal, and anus	0	0	0	1	7	17	10	14	7	9	10	11	14	6	3	1	1	0	111
C22	Liver & intrahepatic bile duct	5	0	0	0	0	0	0	1	0	1	7	11	9	7	7	2	0	0	50
C23-C24	Gall bladder & extrahepatic bile duct	0	0	0	0	0	0	0	4	2	4	11	11	8	4	3	1	0	0	48
C25	Pancreas	0	0	0	0	1	0	0	2	3	2	3	4	7	4	4	1	1	0	32
C30-C31	Nasal cavity, middle ear and acc. sinuses	0	0	1	1	1	1	1	0	2	1	0	0	1	3	0	0	0	0	12
C32	Larynx	0	0	0	0	1	1	0	1	0	2	3	1	1	0	0	0	0	0	10
C33-C34	Trachea, bronchus & lung	0	0	0	0	0	2	1	2	6	4	3	7	7	4	5	2	1	1	45
C37-C38	Thymus, heart, mediastinum & pleura	1	0	0	0	0	1	1	1	0	0	0	0	0	2	0	0	0	0	6
C40-C41	Bone & articular cartilage	0	11	9	15	0	1	1	2	2	0	0	1	1	0	0	0	0	0	43
C44	Skin	0	0	0	0	1	1	4	10	4	7	18	8	16	13	12	5	5	0	104
C47	Peripheral & autoimmune nervous system	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	2
C48	Peritoneum & Retroperitoneum	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	3
C49	Connective & soft tissue	3	2	1	3	6	3	6	8	4	3	5	3	5	2	2	1	0	0	57
C50	Breast	0	0	0	2	18	57	149	242	227	118	130	112	86	59	37	13	9	2	1261
C51-C52	Vulva & vagina	0	0	0	0	0	4	0	1	1	0	5	1	4	1	1	0	0	0	18
C53	Cervix uteri	0	0	0	0	0	1	10	20	25	30	28	21	15	6	6	0	0	0	162
C54	Corpus uteri	0	0	0	1	1	1	6	3	10	16	4	16	22	13	6	3	0	0	102
C55	Uterus	0	0	0	0	1	3	0	1	0	0	1	2	0	0	1	0	0	0	9
C56-C57	Ovary & other female genital organs	0	4	4	8	16	11	18	10	14	5	9	10	4	3	1	0	1	0	118
C58	Placenta	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
C64-C66	Kidney & other urinary organ	9	3	0	0	3	2	5	2	4	12	4	10	9	2	1	0	0	0	66
C67	Urinary bladder	0	0	0	0	0	2	1	0	1	1	2	2	0	1	0	2	1	1	14
C69	Eye	18	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	23
C70-C71	Brain	0	0	0	1	8	16	14	13	7	8	3	9	5	4	1	0	0	0	89
C72	Other parts of nervous system	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
C73	Thyroid gland	0	0	1	2	6	21	21	19	14	8	8	4	4	2	2	0	0	0	112
C74-C75	Endocrine gland and related structure	0	0	1	1	4	5	8	3	3	1	2	2	2	1	0	0	0	0	33
C76	Other and ill-defined sites	2	0	0	0	1	0	0	3	0	0	0	0	0	0	1	0	0	0	7
C80	Unknown primary	0	0	0	1	0	0	0	1	1	4	3	5	2	1	2	1	0	0	21
M9650-M9667	Hodgkin lymphoma	2	17	0	4	25	17	13	10	2	1	0	1	0	1	0	0	0	0	93
M9590-91, 967-972	Non-Hodgkin lymphoma	10	7	0	1	11	6	17	16	3	1	10	4	5	3	1	0	1	1	97
M9731-M9732	Multiple myeloma & immuno. neoplasms	0	0	0	0	0	0	0	0	1	0	0	2	1	3	1	0	0	0	8
M982-M983	Lymphoid leukemia	35	3	0	1	6	3	0	5	2	3	9	6	3	0	0	0	0	0	76
M984-M993	Myeloid leukemia	0	0	2	1	2	0	1	1	0	2	0	0	3	0	0	0	0	0	12
M980	Other leukemia	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
C42.0, C42.2-4	Other lymphatic & hematopoietic tissue	0	0	1	0	0	0	0	1	0	0	0	1	1	0	1	1	0	0	6
~	Other reportable CNS neoplasms	0	0	0	0	2	0	1	0	2	1	3	1	0	0	0	0	0	0	10
	<b>Total</b>	<b>86</b>	<b>49</b>	<b>21</b>	<b>47</b>	<b>135</b>	<b>193</b>	<b>319</b>	<b>439</b>	<b>417</b>	<b>292</b>	<b>320</b>	<b>317</b>	<b>265</b>	<b>157</b>	<b>103</b>	<b>37</b>	<b>24</b>	<b>6</b>	<b>3227</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	0	0	1	1	2	0	4	0	0	2	0	0	0	0	10
C01-C02	Tongue	0	0	0	0	0	3	4	5	15	12	8	8	5	4	4	2	2	1	73
C03	Gum	0	0	0	0	0	1	1	2	2	7	6	7	1	3	1	1	1	0	33
C04-C06	Floor and other parts of mouth	0	0	0	0	0	5	6	9	4	7	6	8	2	2	3	1	1	0	54
C07-C08	Salivary gland	0	0	0	0	4	3	2	4	4	0	4	4	1	2	1	0	0	0	29
C9-C10	Tonsil & oropharynx	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	5
C11	Nasopharynx	0	0	0	4	5	1	2	4	5	11	5	2	0	1	0	0	0	0	40
C12-C13	Pyriiform sinus & Hypopharynx	0	0	0	0	2	2	3	3	6	3	0	3	1	1	1	0	0	0	25
C14	Other & ill-defined lip, oral cavity, pharynx	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
C15	Esophagus	0	0	0	1	2	6	8	14	26	11	11	12	6	0	3	0	0	0	100
C16	Stomach	0	0	0	0	2	6	10	13	18	25	14	18	12	0	2	1	0	0	121
C17	Small intestine	0	0	0	0	1	1	0	3	1	4	3	2	1	2	1	0	0	0	19
C18	Colon	0	0	0	2	0	5	8	5	20	9	18	6	8	5	7	0	0	0	93
C19-C21	Rectosigmoid, rectum, anal canal, and anus	0	0	0	2	11	22	33	27	20	19	16	17	16	17	8	2	3	1	214
C22	Liver & intrahepatic bile duct	6	1	0	0	0	2	1	1	4	5	16	11	16	8	9	3	1	0	84
C23-C24	Gall Bladder & extrahepatic bile duct	0	0	0	0	0	0	1	2	5	5	9	12	12	4	1	2	0	1	54
C25	Pancreas	0	0	0	0	2	0	1	0	2	8	6	10	6	8	4	3	0	0	50
C30-C31	Nasal cavity, middle ear and acc. sinuses	0	0	0	0	1	2	1	1	2	0	1	1	2	2	0	0	0	0	13
C32	Larynx	0	0	0	0	0	2	1	2	3	7	12	9	7	2	3	3	0	0	51
C33-C34	Bronchus & Lung	0	0	0	1	0	0	0	3	3	10	14	21	30	21	6	10	4	2	125
C37-C38	Thymus, heart, mediastinum & pleura	0	0	0	2	0	2	2	1	3	1	0	0	3	0	0	0	0	0	14
C40-C41	Bone & articular cartilage	6	4	35	23	2	1	2	0	2	1	3	0	0	1	1	0	0	0	81
C44	Skin	1	0	0	0	1	2	9	13	8	14	15	23	17	21	16	13	7	4	164
C47	Peripheral. & autoimmune nervous system	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
C48	Retroperitoneum and Peritoneum	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
C49	Connective & soft tissue	2	3	2	4	10	8	5	4	11	8	6	6	2	2	0	2	0	1	76
C50	Breast	0	0	0	0	0	0	1	0	2	1	0	1	2	1	0	1	0	0	9
C60	Penis	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
C61	Prostate	0	0	0	0	0	0	0	0	2	4	20	41	62	78	36	16	4	1	264
C62	Testis	11	1	2	15	38	40	29	30	10	6	7	3	1	0	0	0	0	0	193
C63	Other & unspecified male genital organs	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
C64-C66	Kidney & other urinary organ	14	2	0	0	1	3	5	6	6	18	18	13	16	4	3	0	0	1	110
C67	Urinary bladder	0	0	0	0	2	0	2	4	10	14	11	14	9	4	1	3	1	0	75
C68	Other & unspecified urinary organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C69	Eye	19	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	24
C70-C71	Brain	0	0	0	5	13	16	33	23	23	10	7	9	10	2	1	0	0	0	152
C72	Other parts of nervous system	0	0	0	0	1	2	0	2	0	1	0	1	1	0	0	0	0	0	8
C73	Thyroid gland	0	0	0	1	5	6	11	8	7	2	3	6	2	2	0	1	0	0	54
C74-C75	Endocrine gland and related structure	0	0	0	0	1	4	3	6	0	5	3	1	1	3	0	0	0	0	27
C76	Other and ill-defined sites	2	0	0	0	1	1	0	0	2	0	2	0	0	1	1	0	0	0	10
C80	Unknown primary	0	0	0	1	0	1	2	1	1	0	1	2	0	2	1	0	0	0	12
M9650-M9667	Hodgkin lymphoma	21	67	0	20	45	25	29	34	4	3	3	0	1	0	0	0	0	0	252
M9590-91,967-972	Non-Hodgkin lymphoma	16	35	0	5	20	24	35	25	15	7	13	8	9	3	2	3	1	0	221
M9731-M9732	Multiple myeloma & immuno. neoplasms	0	0	0	0	0	0	0	0	0	1	2	1	1	2	2	1	1	0	11
M982-M983	Lymphoid leukemia	43	3	2	7	21	3	3	2	5	12	19	20	1	0	2	0	0	0	143
M984-M993	Myeloid leukemia	0	0	3	1	2	4	2	0	1	0	4	1	2	2	1	0	0	0	23
M994	Other leukemia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C42.0, C42.2-4	Other lymphatic & hematopoietic tissue	0	0	0	0	2	0	0	0	0	0	0	1	4	1	0	0	1	0	9
~	Other reportable CNS neoplasms	0	0	0	0	3	3	4	2	2	1	1	0	0	1	0	0	0	0	17
	<b>Total</b>	<b>141</b>	<b>120</b>	<b>44</b>	<b>95</b>	<b>198</b>	<b>207</b>	<b>260</b>	<b>263</b>	<b>259</b>	<b>256</b>	<b>293</b>	<b>302</b>	<b>270</b>	<b>214</b>	<b>121</b>	<b>68</b>	<b>27</b>	<b>13</b>	<b>3151</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, 2018**

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>3227</b>	<b>3151</b>	<b>6378</b>

"NOS" is an abbreviation for Not Otherwise Specified