



SONGKLANAGARIND HOSPITAL, FACULTY OF MEDICINE
PRINCE OF SONGKLA UNIVERSITY
SONGKHLA, THAILAND

HOSPITAL-BASED TUMOR REGISTRY

SONGKLANAGARIND HOSPITAL ANNUAL REPORT 2018

EDITED BY
PARADEE PRECHAWITTAYAKUL, B.Sc.
September, 2020



CANCER INFORMATION CENTER
<http://medinfo2.psu.ac.th/cancer>

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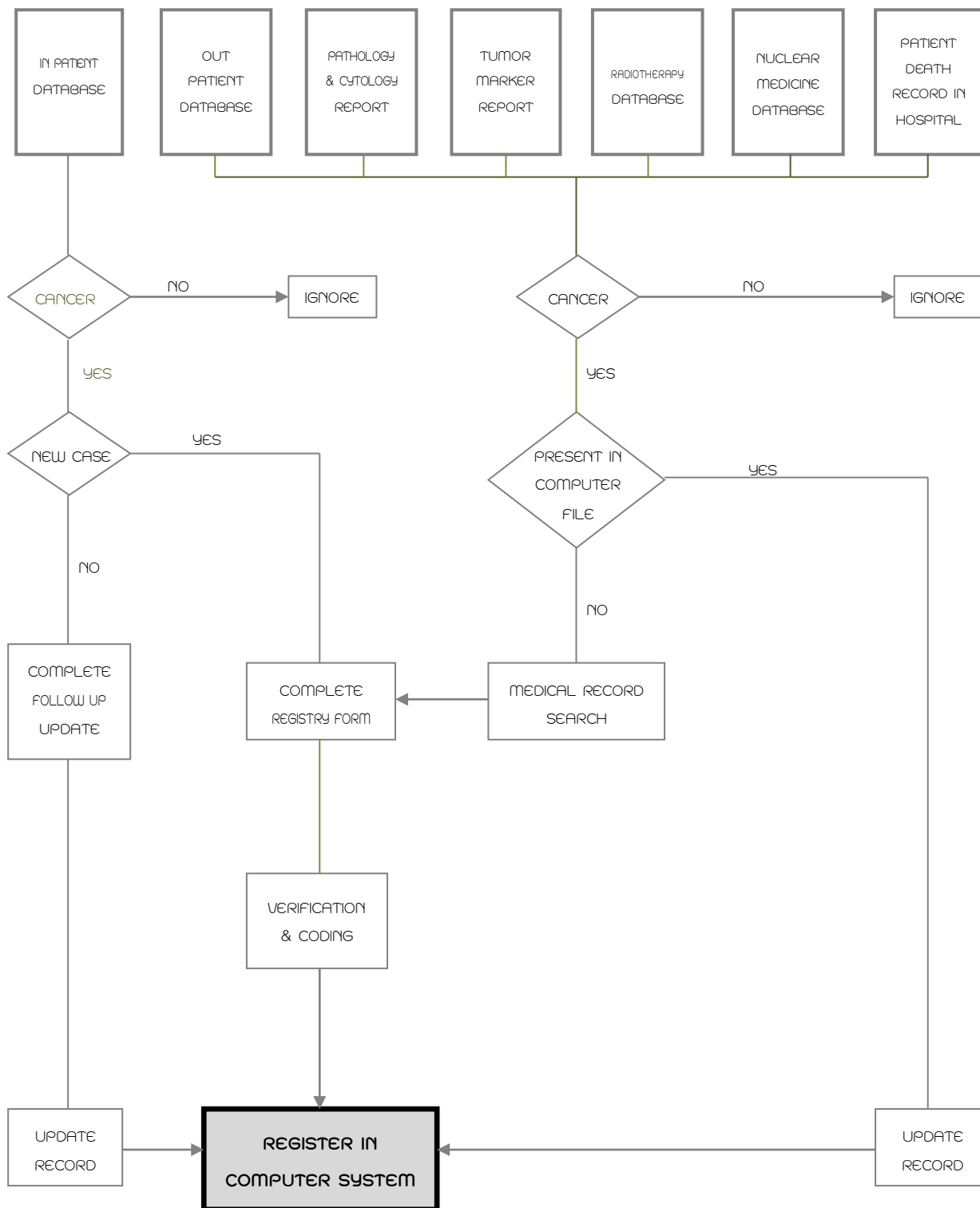
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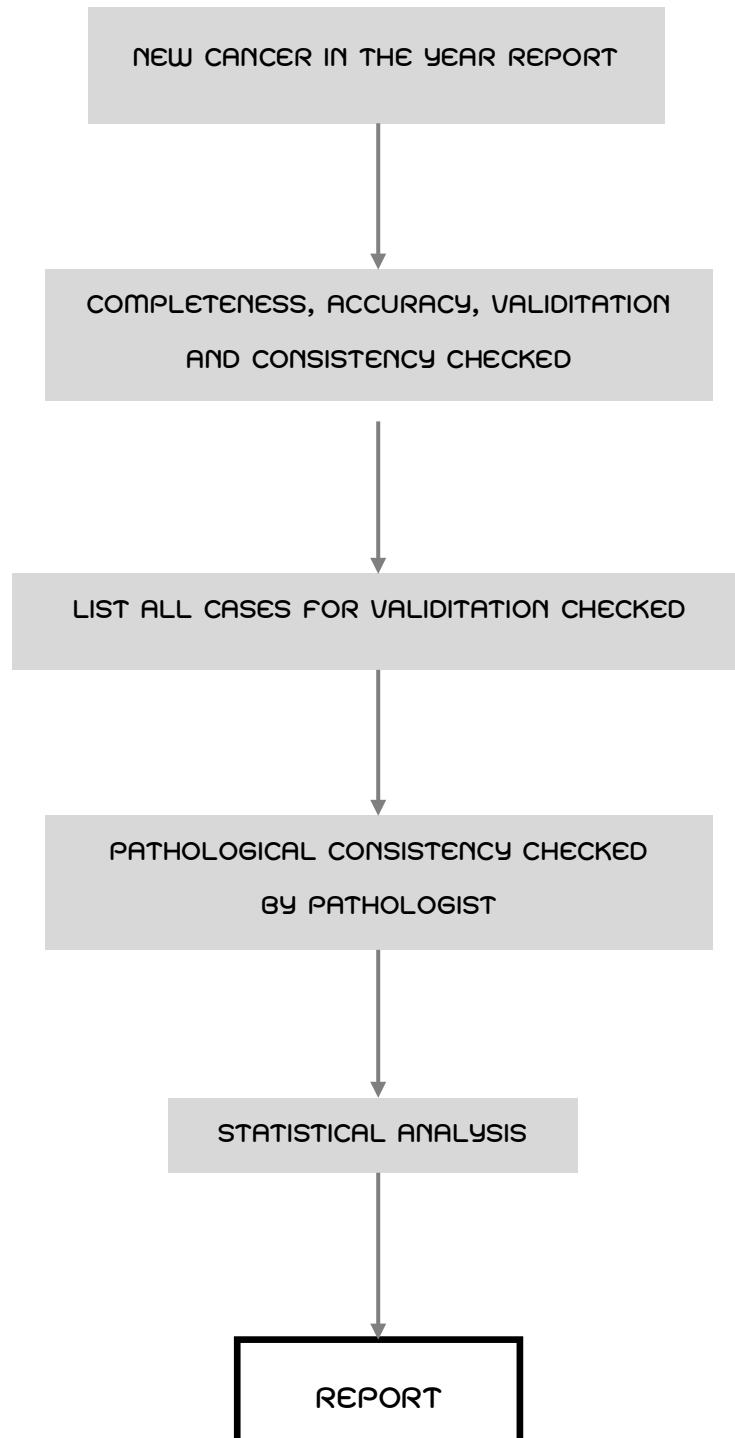
CANCER REGISTRY STAFF

MISS PARADEE	PRECHAWITTAYAKUL	NURSE
MISS BENJAPORN	CHUMSEANG	REGISTRAR
MRS. RATTANA	SUWANNO	REGISTRAR
MISS WANDEE	SRITONGKAEW	REGISTRAR
MRS. PARICHAD	PANCHALERM	REGISTRAR

FLOW CHART OF SONGKLANAGARIND TUMOR REGISTRY



FLOW CHART OF SONGKLANAGARIND CANCER REGISTRY REPORT



S U M M A R Y

From January to December 2018, among 88,940 patients who attended Songklanagarind Hospital, 5,897 cases were new cancer patients. Males accounted for 2,679 cancer cases (45.4%). The three most payment used were universal coverage Scheme (46.8%) government/state enterprise (20.3%) and Social Security Scheme (8.0%) respectively. The three most common sites, disregarding gender, were breast (765 cases, 13.0%), lung (591 cases, 10.0%), and colon and rectum (491 cases, 8.3%). The three most common primary sites in males were the lung (14.6%), liver (11.6%) and colon & rectum (11.0%). The three most common primary sites in females were the breast (24.6%), uterine cervix (12.5%) and thyroid (9.8%). There were 96 cases (1.6%) of childhood malignancy of which the most common type was leukemia.

The percentage of histologically confirmed cases was 88.1% in males and 94.9% in females. The three most common provinces of residence were Songkhla (24.0%), Nakhon Si Thammarat (17.2%) and Phattalung (11.3%).

TABLE 1: NUMBER OF PATIENTS IN SONGKLANAGARIND HOSPITAL

TYPE OF PATIENTS	NUMBER OF CASES
Total patients at outpatient department	88,940
New patients of hospital	20,724
New cancer patients	5,897

The new cancers were 28.5% of new patients of Songklanakarind hospital in year 2018.

FIGURE 1: TREND OF NEW CANCER CASES IN SONGKLANAGARIND HOSPITAL

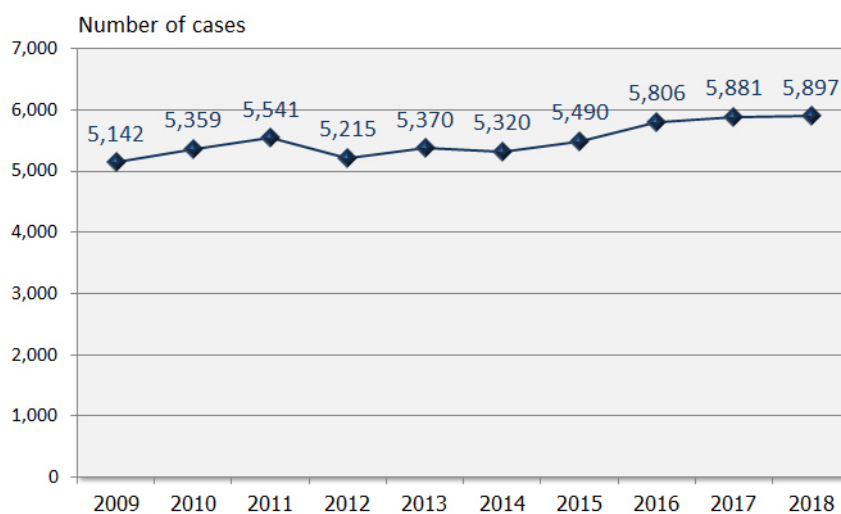


FIGURE 2: NEW CANCER CASES AS A PERCENTAGE OF YEAR ON YEAR

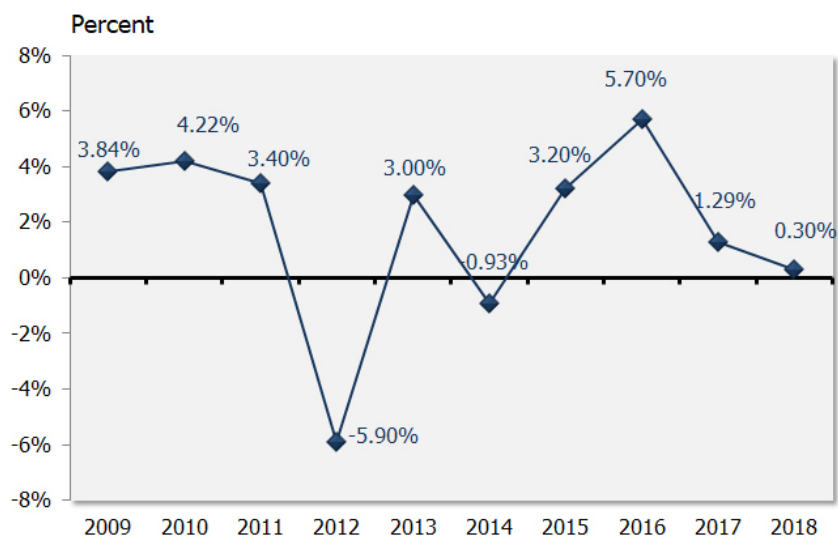


FIGURE 3: NUMBER OF NEW CANCER CASES BY MONTH

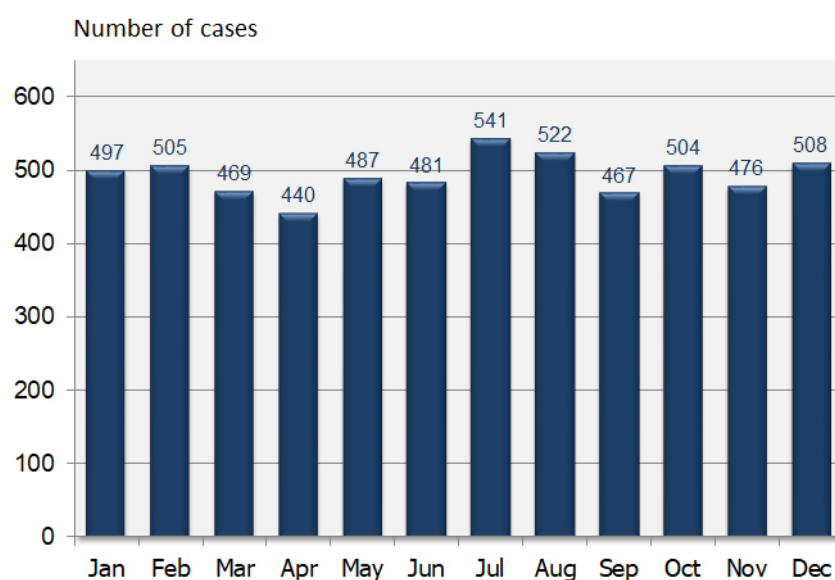


TABLE 2: PATIENT CATEGORIES OF DIAGNOSIS AND TREATMENT

PATIENT CATEGORY	NUMBER	PERCENT
Diagnosed(other), treated(here)	2,168	36.8%
Diagnosed(here), treated(here)	994	16.9%
Diagnosed(other), treated(here & other)	1,170	19.8%
Diagnosed(here), no treatment	316	5.4%
Diagnosed(other), treated(other)	362	6.1%
Diagnosed(other), no treatment(here & other)	887	15.0%
Total	5,897	100.0%

*Here means Songklanagarind hospital.

FIGURE 4: PERCENTAGE OF CANCERS RECEIVED INITIAL DIAGNOSIS OR TREATMENT

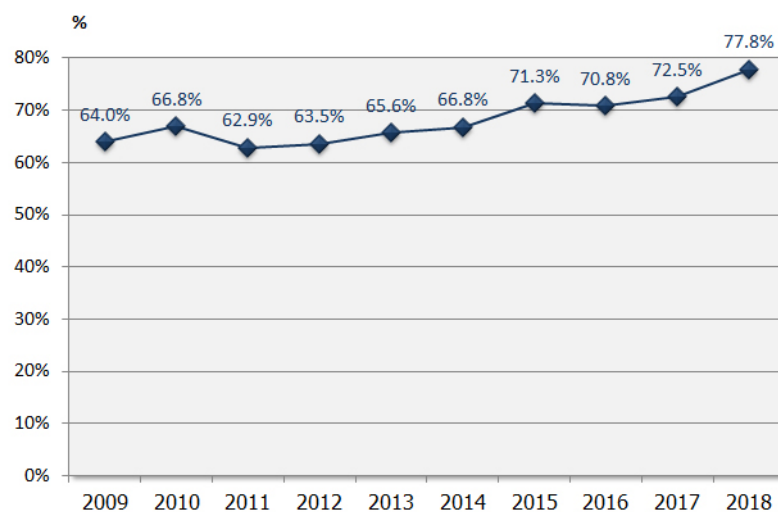


TABLE 3: DISTRIBUTION OF PATIENT PAYMENT USED

PAYMENT CATEGORIES	No.	%
Universal Coverage Scheme(UCS)	2,762	46.8%
Government/ State Enterprise Officer(OFC)	1,195	20.3%
Self Payment	53	0.9%
Social Security Scheme(SSS)	469	8.0%
Local Administrative Organization	217	3.7%
Alien Worker	14	0.2%
Not specified	1,187	20.1%
	100.0%	5,897

FIGURE 5: PERCENTAGE OF PATIENT PAYMENT USED

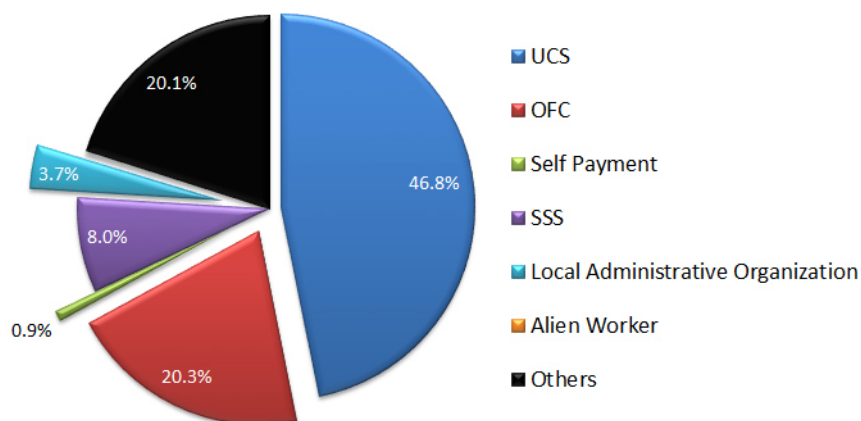


FIGURE 6: DISTRIBUTION OF RELIGION IN CANCER PATIENTS: PERCENTAGE

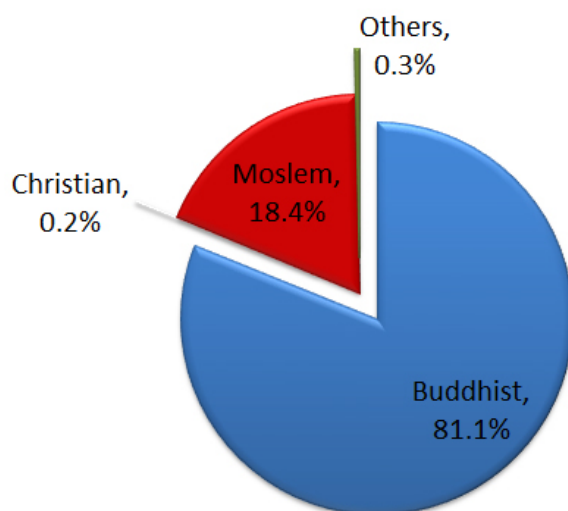


FIGURE 7: PERCENTAGE OF PATIENT BY RESIDENCE

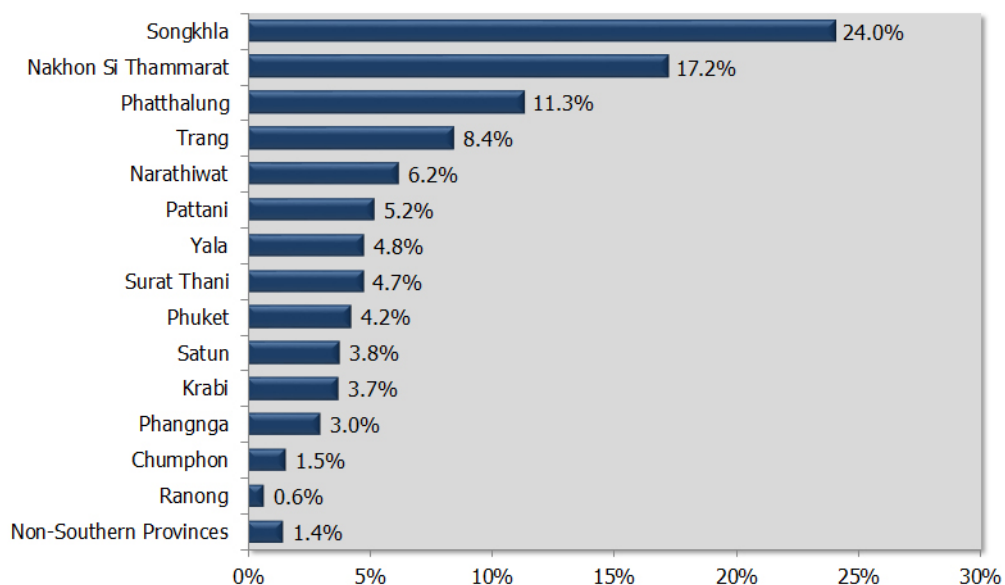


TABLE 4: DISTRIBUTION OF ALL NEWLY DIAGNOSED CANCER CASES BY AGE AND GENDER

AGE GROUP	Males		Females		Total	
	No	% OF ALL CANCER	No	% OF ALL CANCER	No	% OF ALL CANCER
0-	26	0.4%	15	0.3%	41	0.7%
5-	16	0.3%	9	0.2%	25	0.4%
10-	17	0.3%	13	0.2%	30	0.5%
15-	15	0.3%	17	0.3%	32	0.5%
20-	15	0.3%	27	0.5%	42	0.7%
25-	43	0.7%	51	0.9%	94	1.6%
30-	30	0.5%	129	2.2%	159	2.7%
35-	59	1.0%	178	3.0%	237	4.0%
40-	113	1.9%	273	4.6%	386	6.5%
45-	164	2.8%	349	5.9%	513	8.7%
50-	272	4.6%	411	7.0%	683	11.6%
55-	394	6.7%	424	7.2%	818	13.9%
60-	408	6.9%	376	6.4%	784	13.3%
65-	356	6.0%	301	5.1%	657	11.1%
70-	283	4.8%	252	4.3%	535	9.1%
75-	206	3.5%	170	2.9%	376	6.4%
80-	169	2.9%	132	2.2%	301	5.1%
85+	93	1.6%	91	1.5%	184	3.1%
	2,679	45.4%	3,218	54.6%	5,897	100.0%

Male age; mean = 60.4 median = 62

Female age; mean = 56.0 median = 56

FIGURE 8: AGE DISTRIBUTION OF ALL MALIGNANCIES

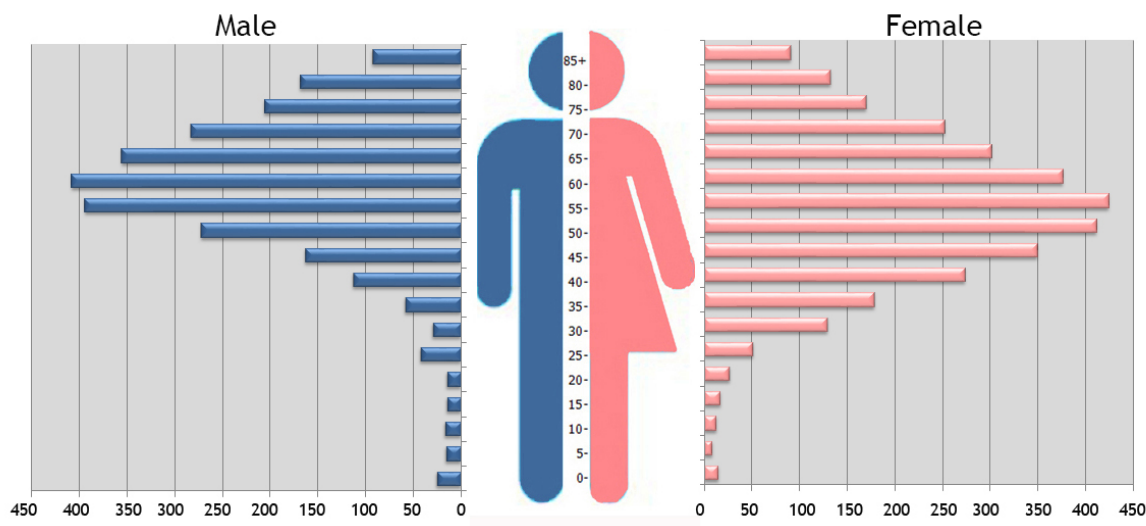


TABLE 5: DISTRIBUTION OF CASES ACCORDING TO METHOD OF DIAGNOSIS

METHOD OF DIAGNOSIS	MALE		FEMALE	
	NO.	% IN MALES	NO.	% IN FEMALES
Clinical only	5	0.2%	8	0.2%
Clinical investigation and imaging	189	7.1%	124	3.9%
Surgery without histology	0	0	1	0.03%
Specific biochemistry	125	4.7%	31	1.0%
Cytology or hematology	38	1.4%	46	1.4%
Histology of metastasis	25	0.9%	17	0.5%
Histology of primary	2297	85.7%	2,991	92.9%
	2,679	100.0%	3,218	100.0%

100.0%

FIGURE 9: METHODS OF DIAGNOSIS

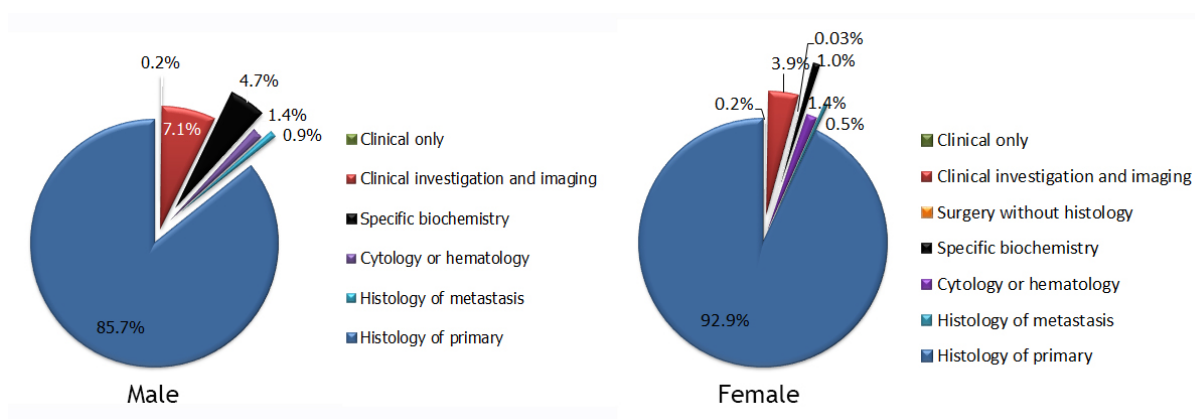


TABLE 6: PERCENTAGE OF MORPHOLOGICALLY VERIFIED CASES (%MV)

ICD-10	Primary sites	Male			Female			All		
		Total	Number of Microscopic confirmed	%	Total	Number of Microscopic confirmed	%	Total	Number of Microscopic confirmed	%
C00	Lip	3	3	100.0%	14	13	92.9%	17	16	94.1%
C01-C02	Tongue	106	105	99.1%	34	33	97.1%	140	138	98.6%
C03-C06	Mouth	84	84	100.0%	56	56	100.0%	140	140	100.0%
C07-C08	Salivary gland	22	22	100.0%	16	16	100.0%	38	38	100.0%



ICD-10	Primary sites	Male			Female			All		
		Total	Number of Microscopic confirmed	%	Total	Number of Microscopic confirmed	%	Total	Number of Microscopic confirmed	%
C09	Tonsil	43	43	100.0%	4	4	100.0%	47	47	100.0%
C10	Oropharynx	15	15	100.0%	2	1	50.0%	17	16	94.1%
C11	Nasopharynx	80	79	98.8%	28	28	100.0%	108	107	99.1%
C12-C13	Hypopharynx	60	59	98.3%	5	4	80.0%	65	63	96.9%
C14	Pharynx, unspecified	4	4	100.0%	5	5	100.0%	9	9	100.0%
C15	Esophagus	150	145	96.7%	20	18	90.0%	170	163	95.9%
C16	Stomach	39	35	89.7%	26	25	96.2%	65	60	92.3%
C17	Small intestine	8	8	100.0%	4	4	100.0%	12	12	100.0%
C18	Colon	109	103	94.5%	85	80	94.1%	194	183	94.3%
C19-C20	Rectum	185	182	98.4%	112	111	99.1%	297	293	98.7%
C21	Anus	17	16	94.1%	12	12	100.0%	29	28	96.6%
C22	Liver	310	88	28.4%	115	35	30.4%	425	123	28.9%
C23-C24	Gallbladder etc.	24	18	75.0%	33	27	81.8%	57	45	78.9%
C25	Pancreas	58	42	72.4%	38	28	73.7%	96	70	72.9%
C30-31	Nose, sinuses etc.	19	19	100.0%	10	9	90.0%	29	28	96.6%
C32	Larynx	107	106	99.1%	4	4	100.0%	111	110	99.1%
C33-C34	Trachea, bronchus and lung	391	366	93.6%	200	187	93.5%	591	553	93.6%
C37-C38	Other thoracic organs	13	13	100.0%	7	7	100.0%	20	20	100.0%
C40-C41	Bone	13	13	100.0%	17	17	100.0%	30	30	100.0%
C43	Melanoma of skin	15	15	100.0%	17	17	100.0%	32	32	100.0%
C44	Other skin	50	48	96.0%	52	50	96.2%	102	98	96.1%
C46	Kaposi sarcoma	1	1	100.0%	1	1	100.0%	2	2	100.0%
C47; C49	Connective and soft tissue	45	39	86.7%	42	39	92.9%	87	76	87.4%
C50	Breast	3	3	100.0%	762	758	99.5%	765	761	99.5%
C51	Vulva	0	0	0.0%	9	9	100.0%	9	9	100.0%



ICD-10	Primary sites	Male			Female			All		
		Total	Number of Microscopic confirmed	%	Total	Number of Microscopic confirmed	%	Total	Number of Microscopic confirmed	%
C52	Vagina	0	0	0.0%	7	7	100.0%	7	7	100.0%
C53	Cervix uteri	0	0	0.0%	385	385	100.0%	385	385	100.0%
C54	Corpus uteri	0	0	0.0%	209	209	100.0%	209	209	100.0%
C55	Uterus unspecified	0	0	0.0%	26	26	100.0%	26	26	100.0%
C56	Ovary	0	0	0.0%	198	191	96.5%	198	191	96.5%
C57	Other female genital	0	0	0.0%	0	0	0.0%	0	0	0.0%
C58	Placenta	0	0	0.0%	5	5	100.0%	5	5	100.0%
C60	Penis	8	8	100.0%	0	0	0.0%	8	8	100.0%
C61	Prostate	138	131	94.9%	0	0	0.0%	138	131	94.9%
C62	Testis	12	12	100.0%	1	1	100.0%	13	13	100.0%
C63	Other male genital	1	1	100.0%	0	0	0.0%	1	1	100.0%
C64	Kidney	47	43	91.5%	12	9	75.0%	59	52	88.1%
C65	Renal pelvis	3	2	66.7%	2	1	50.0%	5	3	60.0%
C66	Ureter	2	2	100.0%	1	1	100.0%	3	3	100.0%
C67	Bladder	70	69	98.6%	17	17	100.0%	87	86	98.9%
C68	Other urinary organs	0	0	0.0%	1	1	100.0%	1	1	100.0%
C69	Eye	8	8	100.0%	8	4	50.0%	16	12	75.0%
C70-C72	Brain, nervous system	40	38	95.0%	54	47	87.0%	94	85	90.4%
C73	Thyroid	78	78	100.0%	303	300	99.0%	381	378	99.2%
C74	Adrenal gland	10	10	100.0%	4	4	100.0%	14	14	100.0%
C75	Other endocrine	4	4	100.0%	3	2	66.7%	7	6	85.7%
C81	Hodgkin's disease	13	13	100.0%	12	12	100.0%	25	25	100.0%
C82-C86, C96	Non-Hodgkin lymphoma	123	123	100.0%	108	108	100.0%	231	231	100.0%
C88	Immunoproliferative diseases	6	6	100.0%	4	4	100.0%	10	10	100.0%
C90	Multiple myeloma	28	28	100.0%	37	37	100.0%	65	65	100.0%
C91	Lymphoid leukemia	22	22	100.0%	14	14	100.0%	36	36	100.0%

ICD-10	Primary sites	Male			Female			All		
		Total	Number of Microscopic confirmed	%	Total	Number of Microscopic confirmed	%	Total	Number of Microscopic confirmed	%
C92-C94	Myeloid leukemia	28	28	100.0%	17	17	100.0%	45	45	100.0%
C95	Leukemia unspecified	4	4	100.0%	2	2	100.0%	6	6	100.0%
D45, D47	Myeloproliferative diseases	7	7	100.0%	11	11	100.0%	18	18	100.0%
D46	Myelodysplastic syndromes	4	4	100.0%	1	1	100.0%	5	5	100.0%
O&U	Other and unspecified	38	34	89.5%	43	38	86.0%	81	70	86.4%
	TOTAL	2,679	2,360	88.1%	3,218	3,054	94.9%	5,897	5,414	91.8%

TABLE 7: THE 10 LEADING SITES OF CANCER IN ALL GENDER

ICD-10	PRIMARY SITE(Short title used)	NO.	% OF ALL CANCER
C50	Breast	765	13.0%
C33-C34	Bronchus and Lung	591	10.0%
C18-20	Colon and Rectum	491	8.3%
C22	Liver	425	7.2%
C53	Cervix Uteri	385	6.5%
C73	Thyroid	381	6.5%
C01-06	Oral Cavity	280	4.7%
C82-C86, C96	Non-Hodgkin Lymphoma	231	3.9%
C54	Corpus Uteri	209	3.5%
C15	Esophagus	170	2.9%

FIGURE 10: THE 10 LEADING SITES OF CANCER IN ALL GENDER: NUMBER

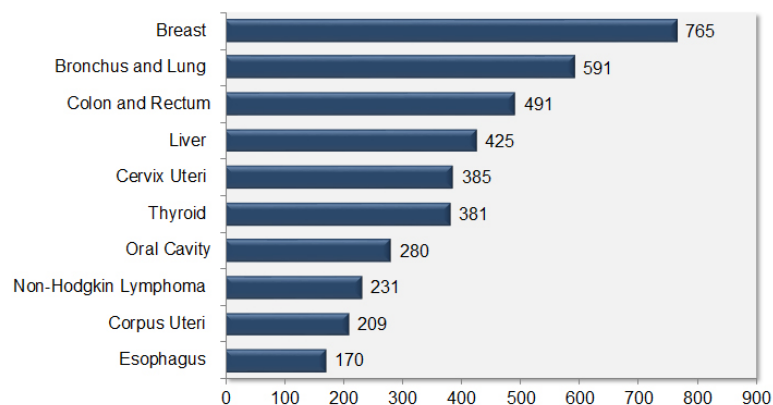


TABLE 8: THE 10 LEADING SITES OF CANCER IN MALES

ICD-10	PRIMARY SITE (Short title used)	NO.	% IN MALES
C33-C34	Bronchus and Lung	391	14.6%
C22	Liver	310	11.6%
C18-C20	Colon and Rectum	294	11.0%
C01-C06	Oral Cavity	190	7.1%
C15	Esophagus	150	5.6%
C61	Prostate	138	5.2%
C82-C86, C96	Non-Hodgkin Lymphoma	123	4.6%
C32	Larynx	107	4.0%
C11	Nasopharynx	80	3.0%
C73	Thyroid	78	2.9%

FIGURE 11: THE 10 LEADING SITES OF CANCER IN MALES: NUMBER

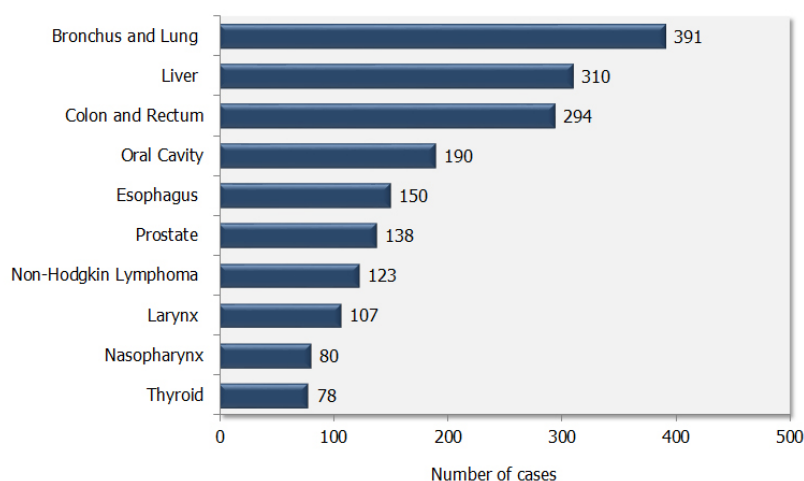


FIGURE 12: TRENDS OF FIVE LEADING SITES IN MALES: NUMBER

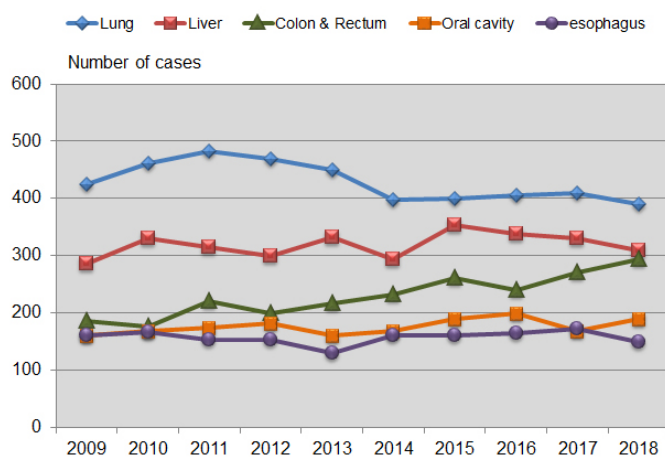


TABLE 9: THE 10 LEADING SITES OF CANCER IN FEMALES

ICD-10	PRIMARY SITE (Short title used)	NO.	% IN FEMALES
C50	Breast	762	24.6%
C53	Cervix Uteri	385	12.5%
C73	Thyroid	303	9.8%
C54	Corpus Uteri	209	6.8%
C33-C34	Bronchus & lung	200	6.5%
C56	Ovary	198	6.4%
C18-C20	Colon & Rectum	197	6.4%
C22	Liver	115	3.7%
C82-C86, C96	Non-Hodgkin Lymphoma	108	3.3%
C01-C06	Oral Cavity	90	2.9%

FIGURE 13: THE 10 LEADING SITES OF CANCER IN FEMALES

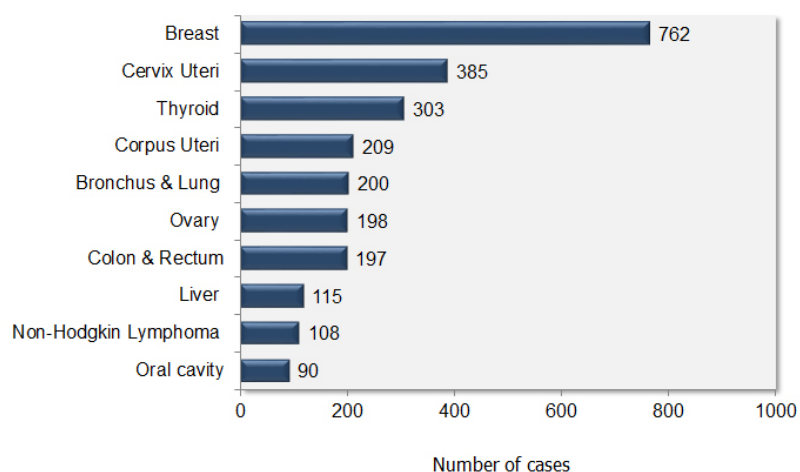


FIGURE 14: TRENDS OF FIVE LEADING SITES IN FEMALES: NUMBER

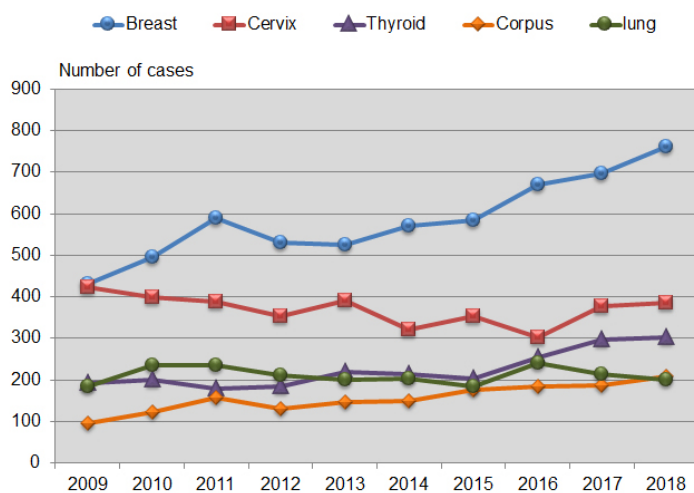


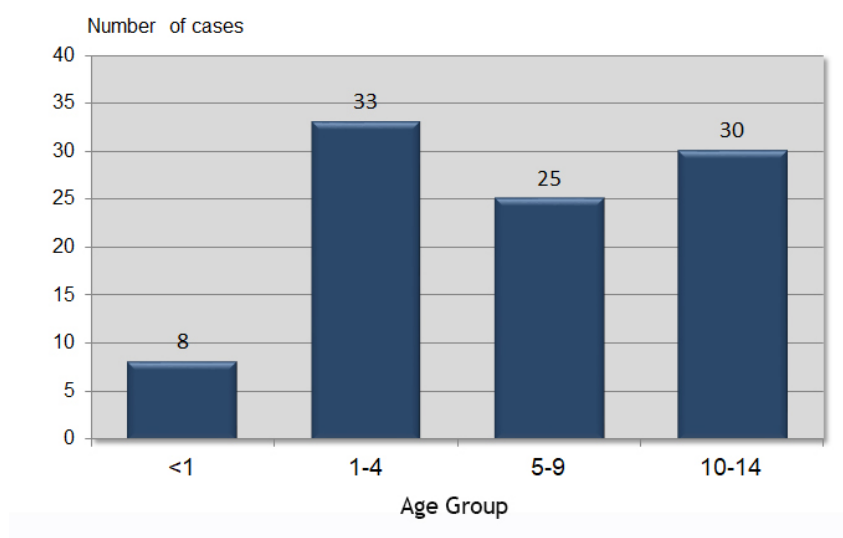
TABLE 10: MALIGNANCY IN CHILDHOOD (AGE 0-14 YEARS) *

SITE	GROUP (ICCC-3 division)	BOY	GIRL	ALL	
		NO.	NO.	NO.	%
I	Leukemias, myeloproliferative diseases, and myelodysplastic diseases	13	7	20	20.8%
II	Lymphomas and reticuloendothelial neoplasms	5	1	6	6.3%
III	CNS and miscellaneous intracranial and intraspinal neoplasms	9	10	19	19.8%
IV	Neuroblastoma and other peripheral nervous cell tumors	1	3	4	4.2%
V	Retinoblastoma	1	2	3	3.1%
VI	Renal tumors	14	3	17	17.7%
VII	Hepatic tumors	2	0	2	2.1%
VIII	Malignant bone tumors	6	4	10	10.4%
IX	Soft tissue and other extraosseous sarcomas	4	2	6	6.3%
X	Germ cell tumors, trophoblastic tumors, and neoplasms of gonads	1	4	5	5.2%
XI	Other malignant epithelial neoplasms and malignant melanomas	3	0	3	3.1%
XII	Other and unspecified malignant neoplasms	0	1	1	1.0%
	Total	59	37	96	100.0%

The malignancy in childhood was 1.6% of all new cancer patients.

* Childhood site group according to International Classification of Childhood Cancer, Third edition (ICCC-3)

FIGURE 15: AGE DISTRIBUTION OF ALL MALIGNANCIES IN CHILDHOOD



Age; Mean = 6.3, Median = 6

SELECTED CANCERS

ORAL CAVITY CANCER

ICD-10 C01-C06

FIGURE 16: DISTRIBUTION OF SUBSITES

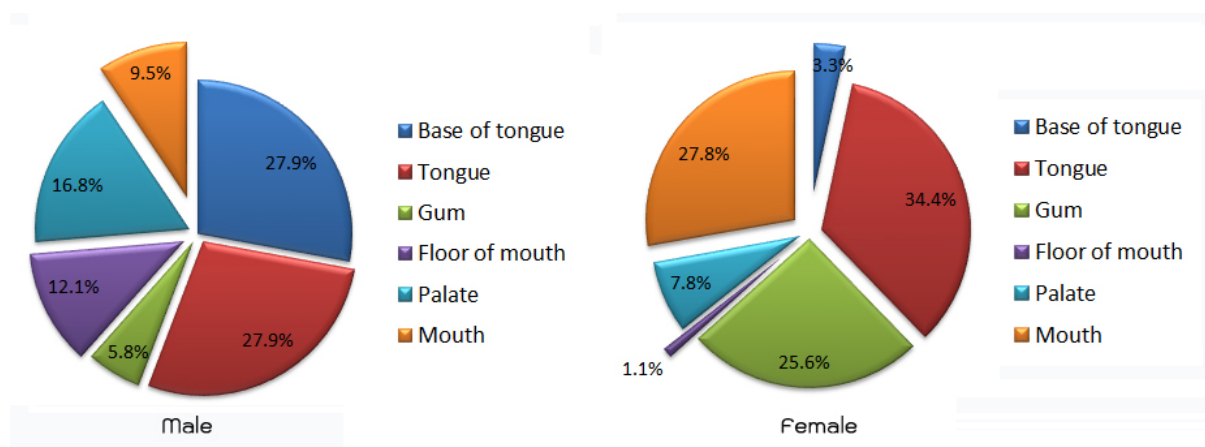


TABLE 11: STAGING

STAGE	MALE	FEMALE	TOTAL	%
Stage I	10	11	21	7.5%
Stage II	25	10	35	12.5%
Stage III	36	11	47	16.8%
Stage IV	114	51	165	58.9%
Not specified	5	7	12	4.3%
Total	190	90	280	100.0%

ESOPHAGEAL CANCER

ICD-10 C15

FIGURE 17: DISTRIBUTION OF SUBSITES

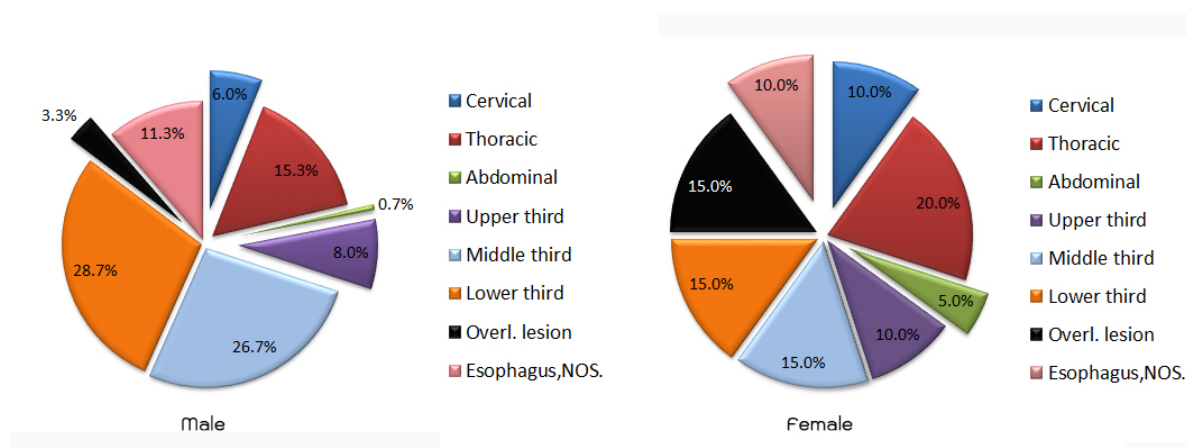


TABLE 12: STAGING

STAGE	MALE	FEMALE	TOTAL	%
Stage I	0	0	0	0.0%
Stage II	17	1	18	10.6%
Stage III	31	7	38	22.4%
Stage IV	60	8	68	40.0%
Not specified	42	4	46	27.1%
Total	150	20	170	100.0%

COLON AND RECTUM CANCER

ICD-10 C18-20

FIGURE 18: DISTRIBUTION OF SUBSITES

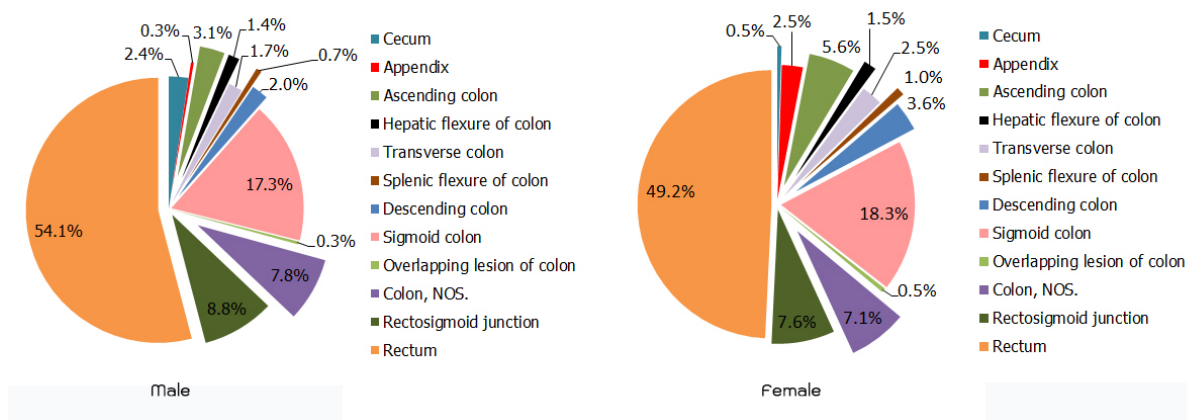
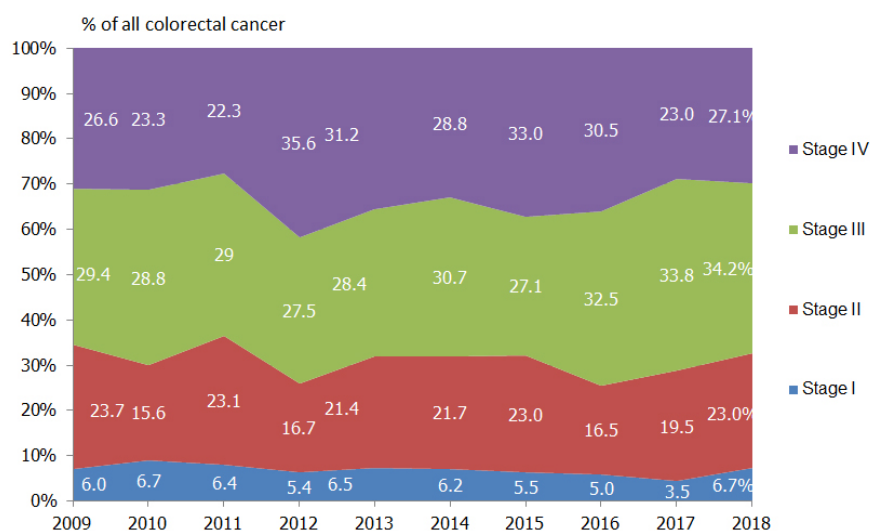


TABLE 13: STAGING

STAGE	MALE	FEMALE	TOTAL	%
Stage I	15	18	33	6.7%
Stage II	66	47	113	23.0%
Stage III	107	61	168	34.2%
Stage IV	79	54	133	27.1%
Not specified	27	17	44	9.0%
Total	294	197	491	100.0%

FIGURE 19: STAGING TRENDS: PERCENTAGE



LUNG CANCER

ICD-10 C34

FIGURE 20: DISTRIBUTION OF SUBSITES

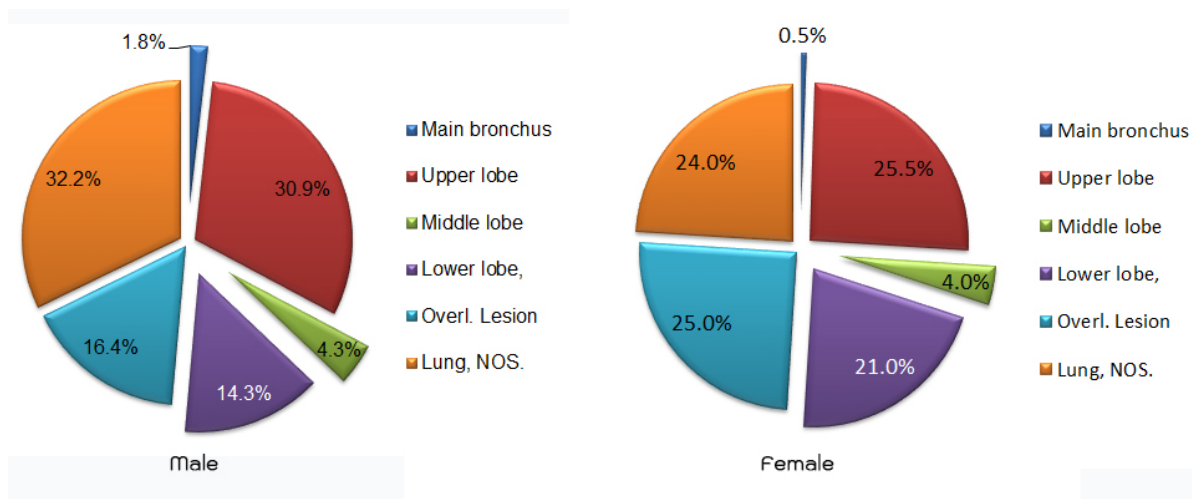


TABLE 14: STAGING

STAGE	MALE	FEMALE	TOTAL	%
Stage I	14	11	25	4.2%
Stage II	11	12	23	3.9%
Stage III	54	11	65	11.0%
Stage IV	266	148	414	70.1%
Not specified	46	18	64	10.8%
Total	391	200	591	100.0%

BREAST CANCER (EXCLUDING IN SITU)

ICD-10 C50

FIGURE 21: DISTRIBUTION OF SUBSITES IN FEMALE BREAST

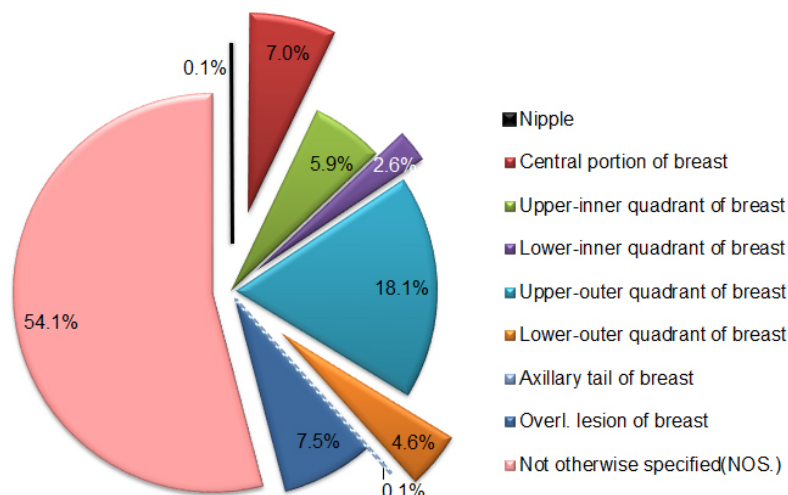
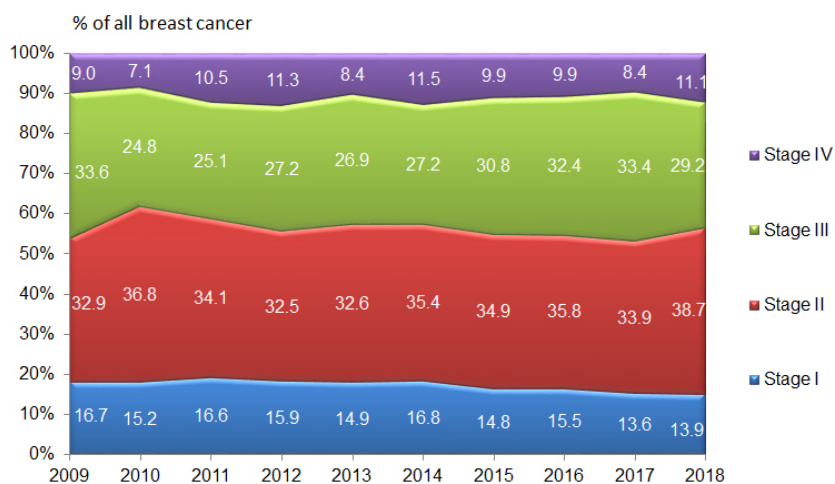


TABLE 15: STAGING

STAGE	MALE	FEMALE	TOTAL	%
Stage I	1	105	106	13.9%
Stage II	2	294	296	38.7%
Stage III	0	223	223	29.2%
Stage IV	0	85	85	11.1%
Not specified	0	55	55	7.2%
Total	3	762	765	100.0%

FIGURE 22: STAGING TRENDS OF FEMALE BREAST CANCER: PERCENTAGE





CERVICAL CANCER (EXCLUDING IN SITU)

ICD-10 C53

TABLE 16: STAGING

STAGE	NUMBER	%
Stage I	66	17.1%
Stage II	130	33.8%
Stage III	145	37.7%
Stage IV	35	9.1%
Not specified	9	2.3%
Total	385	100.0%

FIGURE 23: STAGING TRENDS OF CERVICAL CANCER: PERCENTAGE

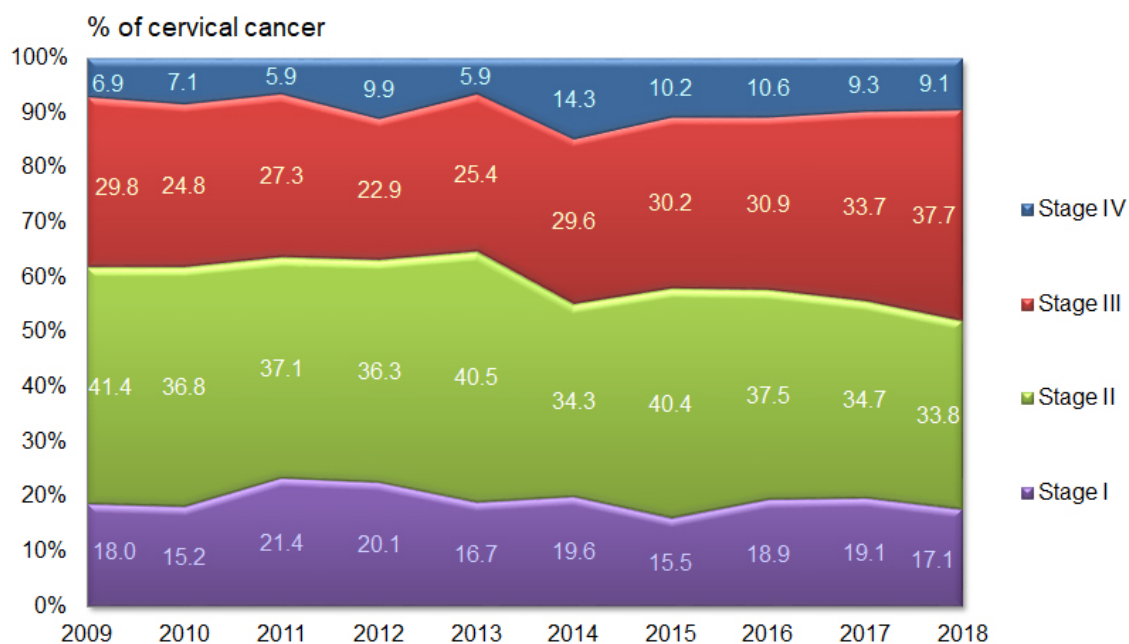


TABLE 17: SEX AND AGE DISTRIBUTION ACCORDING TO PRIMARY SITE

PRIMARY SITE (ICD-10)	SEX	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Lip	All gender	17	0	0	0	0	0	0	0	0	1	0	1	0	0	0	5	1	4	5
(C00)	Male	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
	Female	14	0	0	0	0	0	0	0	0	1	0	1	0	0	0	4	1	4	3
Tongue	All gender	140	0	0	0	0	1	1	3	5	6	9	14	22	22	20	16	7	7	7
(C01-C02)	Male	106	0	0	0	0	1	1	1	3	4	6	10	18	18	17	11	5	5	6
	Female	34	0	0	0	0	0	0	2	2	2	3	4	4	4	3	5	2	2	1
Mouth	All gender	140	0	0	0	0	0	0	0	1	6	4	13	15	19	19	14	17	17	15
(C03-C06)	Male	84	0	0	0	0	0	0	0	1	5	4	11	14	14	10	8	9	3	5
	Female	56	0	0	0	0	0	0	0	0	1	0	2	1	5	9	6	8	14	10
Salivary gland	All gender	38	0	0	1	1	1	3	1	3	1	2	4	5	3	3	1	5	3	1
(C07-C08)	Male	22	0	0	1	0	0	2	1	1	0	1	3	1	3	3	1	3	2	0
	Female	16	0	0	0	1	1	1	0	2	1	1	1	4	0	0	0	2	1	1
Tonsil	All gender	47	0	0	0	0	0	0	0	2	3	6	4	12	6	6	3	1	4	0
(C09)	Male	43	0	0	0	0	0	0	0	2	3	6	4	10	6	5	3	1	3	0
	Female	4	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	1	0

PRIMARY SITE (ICD-10)	SEX	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Oropharynx	All gender	17	0	0	0	0	0	0	0	0	0	2	3	1	3	1	2	0	5	0
(C10)	Male	15	0	0	0	0	0	0	0	0	0	2	2	1	3	1	1	0	5	0
	Female	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
Nasopharynx	All gender	108	0	0	1	1	2	9	2	6	18	10	13	16	13	9	3	3	1	1
(C11)	Male	80	0	0	1	1	1	8	2	4	12	7	9	13	10	7	2	2	0	1
	Female	28	0	0	0	0	1	1	0	2	6	3	4	3	3	2	1	1	1	0
Hypopharynx	All gender	65	0	0	0	0	0	0	0	0	4	3	8	8	12	8	7	8	3	4
(C12-C13)	Male	60	0	0	0	0	0	0	0	0	4	3	8	7	12	8	6	6	3	3
	Female	5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	1
Pharynx, unspecified	All gender	9	0	0	0	0	0	0	0	0	0	0	1	0	3	0	2	0	1	2
(C14)	Male	4	0	0	0	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0
	Female	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	2
Esophagus	All gender	170	0	0	0	0	0	0	0	0	4	6	28	25	36	26	22	7	12	4
(C15)	Male	150	0	0	0	0	0	0	0	0	4	6	27	22	33	23	17	4	10	4
	Female	20	0	0	0	0	0	0	0	0	0	0	1	3	3	3	5	3	2	0

PRIMARY SITE (ICD-10)	SEX	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Stomach	All gender	65	0	0	0	0	0	1	1	3	4	3	6	12	10	12	3	4	6	0
(C16)	Male	39	0	0	0	0	0	0	1	2	2	1	4	6	9	8	2	1	3	0
	Female	26	0	0	0	0	0	1	0	1	2	2	2	6	1	4	1	3	3	0
Small intestine	All gender	12	0	0	0	0	0	0	0	0	1	0	0	1	2	2	2	1	1	2
(C17)	Male	8	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	2
	Female	4	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0
Colon	All gender	194	0	0	0	0	0	0	3	4	4	11	24	24	31	24	20	18	17	14
(C18)	Male	109	0	0	0	0	0	0	0	2	1	6	10	12	19	19	12	10	11	7
	Female	85	0	0	0	0	0	0	3	2	3	5	14	12	12	5	8	8	6	7
Rectum	Both sex	297	0	0	0	0	1	0	3	8	13	24	25	38	47	53	34	28	15	8
(C19-C20)	Male	185	0	0	0	0	0	0	1	4	6	13	13	28	30	37	23	18	9	3
	Female	112	0	0	0	0	1	0	2	4	7	11	12	10	17	16	11	10	6	5
Anus	All gender	29	0	0	0	0	1	0	0	0	0	7	3	3	2	5	2	1	5	0
(C21)	Male	17	0	0	0	0	1	0	0	0	0	5	1	2	1	2	2	0	3	0
	Female	12	0	0	0	0	0	0	0	0	0	2	2	1	1	3	0	1	2	0

PRIMARY SITE (ICD-10)	SEX	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Liver	All gender	425	2	0	0	0	0	1	3	7	22	26	63	73	71	39	48	36	19	15
(C22)	Male	310	2	0	0	0	0	1	3	6	17	21	56	59	53	27	29	17	10	9
	Female	115	0	0	0	0	0	0	0	1	5	5	7	14	18	12	19	19	9	6
Gallbladder etc.	All gender	57	0	0	0	0	0	0	1	0	1	2	9	6	9	10	3	4	7	5
(C23-C24)	Male	24	0	0	0	0	0	0	0	0	1	1	4	3	3	4	0	3	4	1
	Female	33	0	0	0	0	0	0	1	0	0	1	5	3	6	6	3	1	3	4
Pancreas	All gender	96	0	0	0	0	0	1	0	3	3	13	5	8	17	7	18	8	5	8
(C25)	Male	58	0	0	0	0	0	0	0	2	2	7	4	6	10	7	10	3	2	5
	Female	38	0	0	0	0	0	1	0	1	1	6	1	2	7	0	8	5	3	3
Nose, sinuses etc.	All gender	29	0	0	0	0	0	0	1	1	6	2	5	4	4	2	0	3	1	0
(C30-C31)	Male	19	0	0	0	0	0	0	0	0	5	1	4	3	3	1	0	2	0	0
	Female	10	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	0
Larynx	All gender	111	0	0	0	0	0	0	0	0	7	6	15	18	16	17	14	8	7	3
(C32)	Male	107	0	0	0	0	0	0	0	0	7	6	14	17	16	16	14	8	7	2
	Female	4	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	1

PRIMARY SITE (ICD-10)	SEX	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Trachea, bronchus and lung	All gender	591	0	0	0	0	0	1	1	7	30	25	51	85	83	90	76	69	49	24
(C33-C34)	Male	391	0	0	0	0	0	0	1	5	15	17	34	60	56	62	44	51	31	15
	Female	200	0	0	0	0	0	1	0	2	15	8	17	25	27	28	32	18	18	9
Other thoracic organs	All gender	20	1	0	1	0	4	1	1	1	1	2	2	1	2	1	1	0	1	0
(C37-C38)	Male	13	0	0	1	0	4	1	1	1	0	2	1	0	0	0	1	0	1	0
	Female	7	1	0	0	0	0	0	0	0	1	0	1	1	2	1	0	0	0	0
Bone	All gender	30	1	3	6	5	1	2	2	2	2	1	2	1	0	2	0	0	0	0
(C40-C41)	Male	13	0	3	3	2	1	0	0	1	1	0	0	0	0	2	0	0	0	0
	Female	17	1	0	3	3	0	2	2	1	1	1	2	1	0	0	0	0	0	0
Melanoma of skin	All gender	32	0	0	0	0	0	0	1	0	1	2	3	4	5	5	3	3	1	4
(C43)	Male	15	0	0	0	0	0	0	0	0	1	1	3	3	1	1	1	1	1	2
	Female	17	0	0	0	0	0	0	1	0	0	1	0	1	4	4	2	2	0	2
Other skin	All gender	102	0	0	0	0	0	1	1	1	2	4	3	17	15	13	12	7	14	12
(C44)	Male	50	0	0	0	0	0	1	1	0	1	1	1	9	8	6	6	1	9	6
	Female	52	0	0	0	0	0	0	0	1	1	3	2	8	7	7	6	6	5	6

PRIMARY SITE (ICD-10)	SEX	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Kaposi sarcoma	All gender	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
(C46)	Male	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Female	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Connective and soft tissues	All gender	86	2	2	2	3	1	7	3	5	5	10	7	13	8	7	7	2	2	0
(C47, C49)	Male	45	1	1	2	3	0	6	2	2	2	4	4	6	4	3	4	0	1	0
	Female	41	1	1	0	0	1	1	1	3	3	6	3	7	4	4	3	2	1	0
Breast	All gender	765	0	0	0	0	0	3	32	67	90	122	121	109	95	57	32	21	9	7
(C50)	Male	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1
	Female	762	0	0	0	0	0	3	32	67	90	122	120	109	95	57	32	21	8	6
Vulva	All gender	9	0	0	0	0	0	0	1	0	1	1	0	0	1	3	0	0	1	1
(C51)	Male	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Female	9	0	0	0	0	0	0	1	0	1	1	0	0	1	3	0	0	1	1
Vagina	All gender	7	0	0	0	0	0	0	0	0	0	0	0	1	2	1	2	0	0	1
(C52)	Male	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Female	7	0	0	0	0	0	0	0	0	0	0	0	1	2	1	2	0	0	1

[illegible]

PRIMARY SITE (ICD-10)	SEX	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Placenta	All gender	5	0	0	0	0	0	1	0	1	1	2	0	0	0	0	0	0	0	0
(C58)	Male	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Female	5	0	0	0	0	0	1	0	1	1	2	0	0	0	0	0	0	0	0
Penis	All gender	8	0	0	0	0	0	0	0	1	1	0	3	0	0	0	2	0	1	0
(C60)	Male	8	0	0	0	0	0	0	0	1	1	0	3	0	0	0	2	0	1	0
	Female	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prostate	All gender	138	0	0	0	0	0	0	0	0	0	1	1	14	24	28	26	23	15	6
(C61)	Male	138	0	0	0	0	0	0	0	0	0	1	1	14	24	28	26	23	15	6
	Female	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Testis	All gender	13	0	0	0	0	0	3	3	3	2	1	0	1	0	0	0	0	0	0
(C62)	Male	12	0	0	0	0	0	2	3	3	2	1	0	1	0	0	0	0	0	0
	Female*	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Other parts of male genital organs	All gender	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(C63)	Male	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Female	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*swyer syndrome

PRIMARY SITE (ICD-10)	SEX	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Kidney	All gender	59	6	1	0	0	0	0	0	0	1	5	3	14	10	6	5	6	2	0
(C64)	Male	47	5	1	0	0	0	0	0	0	1	4	3	12	9	5	3	2	2	0
	Female	12	1	0	0	0	0	0	0	0	0	1	0	2	1	1	2	4	0	0
Renal pelvis	All gender	5	0	0	0	0	0	0	0	0	0	0	1	0	1	1	2	0	0	0
(C65)	Male	3	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0
	Female	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Ureter	All gender	3	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0
(C66)	Male	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	Female	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Bladder	All gender	87	0	0	0	0	0	1	0	0	1	3	6	12	14	8	12	14	10	6
(C67)	Male	70	0	0	0	0	0	1	0	0	1	3	4	9	13	7	9	13	7	3
	Female	17	0	0	0	0	0	0	0	0	0	0	2	3	1	1	3	1	3	3
Other and unspecified urinary organs	All gender	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
(C68)	Male	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Female	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

PRIMARY SITE (ICD-10)	SEX	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Eye	All gender	16	3	1	0	0	0	0	1	1	0	2	1	0	2	2	1	1	0	1
(C69)	Male	8	1	0	0	0	0	0	0	1	0	2	0	0	1	1	1	0	0	1
	Female	8	2	1	0	0	0	0	1	0	0	0	1	0	1	1	0	1	0	0
Brain, nervous system	All gender	94	6	7	5	6	1	2	7	5	8	11	5	11	8	4	5	0	1	2
(C70-C72)	Male	40	4	2	2	1	0	2	3	1	2	4	3	5	5	2	3	0	1	0
	Female	54	2	5	3	5	1	0	4	4	6	7	2	6	3	2	2	0	0	2
Thyroid	All gender	381	0	0	3	5	12	23	39	32	43	39	49	46	32	19	20	8	10	1
(C73)	Male	78	0	0	1	1	1	7	3	7	4	5	7	17	11	4	5	1	3	1
	Female	303	0	0	2	4	11	16	36	25	39	34	42	29	21	15	15	7	7	0
Adrenal gland	All gender	14	8	2	0	0	0	0	0	1	0	2	0	0	1	0	0	0	0	0
(C74)	Male	10	6	2	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
	Female	4	2	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
Other endocrine	All gender	7	0	0	1	2	0	1	0	0	0	0	0	1	1	0	0	1	0	0
(C75)	Male	4	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Female	3	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0

PRIMARY SITE (ICD-10)	SEX	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Hodgkin lymphoma	All gender	25	0	0	0	2	5	8	1	0	1	0	1	1	3	1	0	2	0	0
(C81)	Male	13	0	0	0	1	3	4	0	0	1	0	1	1	1	0	0	1	0	0
	Female	12	0	0	0	1	2	4	1	0	0	0	0	0	2	1	0	1	0	0
Non-Hodgkin lymphoma	All gender	246	1	3	2	1	2	6	5	15	15	18	25	28	25	32	34	16	13	5
(C82-C86, C96)	Male	134	1	3	1	1	2	4	4	7	5	14	10	16	12	20	17	8	6	3
	Female	112	0	0	1	0	0	2	1	8	10	4	15	12	13	12	17	8	7	2
Immunoproliferative diseases	All gender	9	0	0	0	0	0	0	0	0	0	3	1	2	2	0	0	1	0	0
(C88)	Male	6	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	1	0	0
	Female	3	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0
Multiple myeloma	All gender	65	0	0	0	0	0	0	0	2	2	2	9	6	15	8	14	4	2	1
(C90)	Male	28	0	0	0	0	0	0	0	1	0	0	4	4	5	4	8	2	0	0
	Female	37	0	0	0	0	0	0	0	1	2	2	5	2	10	4	6	2	2	1
Lymphoid leukemia	All gender	36	5	4	5	2	1	3	0	0	1	0	2	2	0	6	2	1	2	0
(C91)	Male	22	4	2	3	2	1	2	0	0	1	0	1	2	0	3	0	0	1	0
	Female	14	1	2	2	0	0	1	0	0	0	0	1	0	0	3	2	1	1	0

PRIMARY SITE (ICD-10)	SEX	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Myeloid leukemia	All gender	45	2	1	2	1	2	1	2	3	1	3	3	5	2	6	4	2	4	1
(C92-C94)	Male	28	1	1	1	1	0	1	2	2	0	1	1	2	0	6	4	2	2	1
	Female	17	1	0	1	0	2	0	0	1	1	2	2	3	2	0	0	0	2	0
Leukemia unspecified	All gender	6	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	2
(C95)	Male	4	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1
	Female	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Other & unspecified	All gender	82	1	0	0	0	0	1	1	2	4	6	6	11	8	11	10	10	6	5
(C26, C39, C42, C48, C76, C77, C80)	Male	38	1	0	0	0	0	0	0	0	1	4	3	6	4	3	6	5	4	1
	Female	44	0	0	0	0	0	1	1	2	3	2	3	5	4	8	4	5	2	4
Myeloproliferative disease	All gender	18	0	0	0	0	0	0	0	1	0	1	2	5	4	0	0	1	2	2
(D45, D47)	Male	7	0	0	0	0	0	0	0	0	0	1	1	2	2	0	0	0	0	1
	Female	11	0	0	0	0	0	0	0	1	0	0	1	3	2	0	0	1	2	1
Myelodysplastic disease	All gender	5	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	1	1	0
(D46)	Male	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	1	0
	Female	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0

PRIMARY SITE (ICD-10)	SEX	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
All sites	All gender	5,897	41	25	30	32	42	94	159	237	386	513	683	818	784	657	535	376	301	184
	Male	2,679	26	16	17	15	15	43	30	59	113	164	272	394	408	356	283	206	169	93
	Female	3,218	15	9	13	17	27	51	129	178	273	349	411	424	376	301	252	170	132	91

TABLE 18: HISTOLOGICAL TYPES

PRIMARY SITE					
(ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
Lip			3	14	17
(C00)	8000	Clinical, no microscopic confirmation	0	1	1
	8051	Verrucous carcinoma	2	2	4
	8070	Squamous cell carcinoma	1	10	11
	8430	Mucoepidermoid carcinoma	0	1	1
Tongue			106	34	140
(C01-C02)	8000	Clinical, no microscopic confirmation	1	1	2
	8010	Carcinoma, NOS	1	1	2
	8041	Small cell carcinoma, NOS	1	0	1
	8051	Verrucous carcinoma, NOS	1	0	1
	8070	Squamous cell carcinoma, NOS	99	32	131
	8071	Squamous cell carcinoma, keratinizing	1	0	1
	8072	Squamous cell carcinoma, nonkeratinizing, NOS	2	0	2
Mouth			84	56	140
(C03-C06)	8000	Malignancy, NOS	1	0	1
	8010	Carcinoma, NOS	2	0	2
	8020	Carcinoma, undifferentiated, NOS	1	0	1
	8051	Verrucous carcinoma, NOS	0	3	3
	8070	Squamous cell carcinoma	73	51	124
	8140	Adenocarcinoma, NOS	1	0	1
	8200	Adenoid cystic carcinoma	4	0	4
	8430	Mucoepidermoid carcinoma	1	1	2
	8720	Malignant melanoma	1	1	2
Salivary gland			22	16	38
(C07-C08)	8000	Malignancy, NOS	1	0	1
	8010	Carcinoma, NOS	2	2	4
	8070	Squamous cell carcinoma	1	1	2
	8140	Adenocarcinoma	3	3	6
	8200	Adenoid cystic carcinoma	5	4	9
	8430	Mucoepidermoid carcinoma	8	5	13



PRIMARY SITE					
(ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
	8500	Salivary duct carcinoma	1	0	1
	8550	Acinar cell carcinoma	0	1	1
	8941	Carcinoma in pleomorphic adenoma	1	0	1
Tonsil			43	4	47
(C09)	8070	Squamous cell carcinoma, NOS	42	4	46
	8082	Lymphoepithelial carcinoma	1	0	1
Oropharynx			15	2	17
(C10)	8000	Clinical, no microscopic confirmation	0	1	1
	8070	Squamous cell carcinoma	15	1	16
Nasopharynx			80	28	108
(C11)	8000	Clinical, no microscopic confirmation	1	0	1
	8000	Malignancy, NOS	0	1	1
	8010	Carcinoma, NOS	5	3	8
	8020	Undifferentiated carcinoma	13	5	18
	8070	Squamous cell carcinoma, NOS	23	5	28
	8072	Squamous cell carcinoma, large cell, nonkeratinizing, NOS	36	14	50
	8082	Lymphoepithelial carcinoma	1	0	1
	8430	Mucoepidermoid carcinoma	1	0	1
Hypopharynx			60	5	65
(C12-C13)	8000	Clinical, no microscopic confirmation	1	1	2
	8070	Squamous cell carcinoma, NOS	52	4	56
	8072	Squamous cell carcinoma, nonkeratinizing	3	0	3
	8076	Squamous cell carcinoma, microinvasive	1	0	1
	8071	Squamous cell carcinoma, keratinizing, NOS	2	0	2
	8020	Undifferentiated carcinoma	1	0	1
Pharynx, unspecified			4	5	9
(C14)	8070	Squamous cell carcinoma	4	5	9



PRIMARY SITE					
(ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
Esophagus			150	20	170
(C15)	8000	Clinical, no microscopic confirmation	5	2	7
	8000	Malignancy, NOS	1	0	1
	8010	Carcinoma, NOS	3	0	3
	8070	Squamous cell carcinoma, NOS	135	17	152
	8071	Squamous cell carcinoma, keratinizing, NOS	1	0	1
	8072	Squamous cell carcinoma, non-keratinizing, NOS	1	0	1
	8140	Adenocarcinoma, NOS	3	1	4
	8480	Mucinous adenocarcinoma	1	0	1
Stomach			39	26	65
(C16)	8000	Clinical, no microscopic confirmation	4	1	5
	8000	Malignancy, NOS	1	0	1
	8010	Carcinoma, NOS	0	1	1
	8070	Squamous cell carcinoma	1	0	1
	8140	Adenocarcinoma, NOS	28	20	48
	8240	Carcinoid tumour	0	1	1
	8244	Composite carcinoid	1	0	1
	8490	Signet ring cell adenocarcinoma	3	3	6
	8574	Adenocarcinoma with neuroendocrine differentiation	1	0	1
Small intestine			8	4	12
(C17)	8140	Adenocarcinoma	7	3	10
	8246	Neuroendocrine carcinoma, NOS	1	1	2
Colon			109	85	194
(C18)	8000	Clinical, no microscopic confirmation	6	5	11
	8000	Malignancy, NOS	0	1	1
	8010	Carcinoma, NOS	7	0	7
	8140	Adenocarcinoma, NOS	92	72	164
	8240	Carcinoid tumor, NOS, of appendix	1	1	2
	8470	Mucinous cystadenocarcinoma, NOS	0	1	1
	8480	Mucinous adenocarcinoma	3	4	7
	8490	Signet ring cell adenocarcinoma	0	1	1



PRIMARY SITE					
(ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
Rectum			185	112	297
(C19-C20)	8000	Clinical, no microscopic confirmation	3	1	4
	8000	Malignancy, NOS	1	0	1
	8010	Carcinoma, NOS	8	1	9
	8140	Adenocarcinoma, NOS	166	106	272
	8240	Carcinoid tumour	1	1	2
	8260	Papillary adenocarcinoma, NOS	0	1	1
	8480	Mucinous adenocarcinoma	4	1	5
	8481	Mucin-producing adenocarcinoma	1	0	1
	8490	Signet ring cell carcinoma	1	1	2
Anus			17	12	29
(C21)	8000	Clinical, no microscopic confirmation	1	0	1
	8070	Squamous cell carcinoma, NOS	5	4	9
	8140	Adenocarcinoma	11	7	18
	8720	Malignant melanoma, NOS (except juvenile melanoma)	0	1	1
Liver			310	115	425
(C22)	8000	Clinical, no microscopic confirmation	223	81	304
	8010	Carcinoma, NOS	0	2	2
	8140	Adenocarcinoma	8	9	17
	8160	Cholangiocarcinoma	14	7	21
	8170	Hepatocellular carcinoma, NOS	59	15	74
	8180	Combined hepatocellular carcinoma and cholangiocarcinoma	3	1	4
	8890	Leiomyosarcoma, NOS	1	0	1
	8970	Hepatoblastoma	2	0	2
Gallbladder etc.			24	33	57
(C23-C24)	8000	Clinical, no microscopic confirmation	6	6	12
	8010	Carcinoma, NOS	2	1	3
	8140	Adenocarcinoma	13	21	34
	8160	Cholangiocarcinoma	3	5	8



PRIMARY SITE					
(ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
Pancreas			58	38	96
(C25)	8000	Clinical, no microscopic confirmation	16	10	26
	8010	Carcinoma, NOS	2	1	3
	8140	Adenocarcinoma, NOS	33	22	55
	8240	Carcinoid tumour	2	4	6
	8246	Neuroendocrine carcinoma, NOS	2	1	3
	8480	Mucinous adenocarcinoma	1	0	1
	8500	Infiltrating duct carcinoma, NOS	1	0	1
	8800	Sarcoma	1	0	1
Nose, sinuses etc.			19	10	29
(C30-C31)	8000	Clinical, no microscopic confirmation	0	1	1
	8000	Malignancy, NOS	1	0	1
	8010	Carcinoma, NOS	0	1	1
	8070	Squamous cell carcinoma	8	4	12
	8072	Squamous cell carcinoma, large cell, nonkeratinizing, NOS	1	1	2
	8140	Adenocarcinoma, NOS	5	0	5
	8200	Adenoid cystic carcinoma	1	1	2
	8430	Mucoepidermoid carcinoma	1	0	1
	8720	Malignant melanoma	1	0	1
	8920	Alveolar rhabdomyosarcoma	0	1	1
	9370	Chordoma, NOS	1	0	1
	9522	Olfactory neuroblastoma	0	1	1
Larynx			107	4	111
(C32)	8000	Clinical, no microscopic confirmation	1	0	1
	8010	Carcinoma, NOS	1	0	1
	8032	Spindle cell carcinoma	1	0	1
	8051	Verrucous carcinoma	1	0	1
	8070	Squamous cell carcinoma, NOS	101	4	105
	8072	Squamous cell carcinoma, nonkeratinizing	1	0	1
	8140	Adenocarcinoma, NOS	1	0	1



PRIMARY SITE					
(ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
Trachea, bronchus and lung			391	200	591
(C33-C34)	8000	Clinical, no microscopic confirmation	29	14	43
	8004	Malignant tumor, spindle cell type	0	1	1
	8010	Carcinoma, NOS	9	4	13
	8012	Large cell carcinoma, NOS	3	0	3
	8020	Carcinoma, undifferentiated, NOS	1	0	1
	8022	Pleomorphic carcinoma	0	1	1
	8041	Small cell carcinoma	35	6	41
	8046	Non-small cell carcinoma	24	6	30
	8070	Squamous cell carcinoma, NOS	69	9	78
	8071	Squamous cell carcinoma, keratinizing, NOS	1	0	1
	8140	Adenocarcinoma, NOS	208	155	363
	8240	Carcinoid tumour	1	0	1
	8246	Neuroendocrine carcinoma	8	0	8
	8250	Bronchiolo-alveolar adenocarcinoma, NOS	1	0	1
	8260	Papillary adenocarcinoma, NOS	0	1	1
	8480	Mucinous adenocarcinoma	0	2	2
	8560	Adenosquamous carcinoma	1	0	1
	8801	Spindle cell sarcoma	1	0	1
	8830	Malignant fibrous hitiocyoma	0	1	1
Other thoracic organs			13	7	20
(C37-C38)	8010	Carcinoma, NOS	1	0	1
	8070	Squamous cell carcinoma, NOS	1	2	3
	8140	Adenocarcinoma, NOS	0	1	1
	8246	Neuroendocrine carcinoma	1	0	1
	8580	Thymoma, malignant, NOS	0	1	1
	8584	Thymoma, type B2, NOS	0	1	1
	8585	Thymoma, type B3, malignant	2	0	2
	8840	Myxosarcoma	0	1	1
	9061	Seminoma, NOS	1	0	1
	9064	Germinoma	2	0	2
	9071	Yolk sac tumor	5	0	5
	9500	Neuroblastoma, NOS	0	1	1

PRIMARY SITE					
(ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
Bone			13	17	30
(C40-C41)	9180	Osteosarcoma, NOS	7	9	16
	9185	Small cell osteosarcoma	0	1	1
	9186	Central osteosarcoma	0	1	1
	9220	Chondrosarcoma, NOS	2	2	4
	9260	Ewing sarcoma	4	2	6
	9261	Tibial adamantinoma	0	1	1
	9370	Chordoma, NOS	0	1	1
Melanoma of skin			15	17	32
(C43)	8720	Malignant melanoma, NOS (except juvenile melanoma)	13	16	29
	8721	Nodular melanoma	1	0	1
	8770	Mixed epithelioid and spindle cell melanoma	1	0	1
	8772	Spindle cell melanoma, NOS	0	1	1
Other skin			50	52	102
(C44)	8000	Clinical, no microscopic confirmation	2	2	4
	8010	Carcinoma, NOS	1	0	1
	8032	Spindle cell carcinoma, NOS	2	0	2
	8070	Squamous cell carcinoma	27	24	51
	8076	microinvasive squamous cell carcinoma	1	0	1
	8090	Basal cell carcinoma, NOS	12	22	34
	8247	Merkel cell carcinoma	1	1	2
	8409	Porocarcinoma	1	1	2
	8560	Adenosquamous carcinoma	1	0	1
	8832	Dermatofibrosarcoma protuberans, NOS	1	2	3
	9120	Angiosarcoma	1	0	1
Kaposi sarcoma			1	1	2
(C46)	9140	Kaposi sarcoma	1	1	2
Connective and soft tissues			45	42	87
(C47, C49)	8000	Clinical, no microscopic confirmation	5	4	9
	8004	Malignant tumor, spindle cell type	0	1	1
	8200	Adenoid cystic carcinoma	0	1	1



PRIMARY SITE (ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
	8800	Sarcoma	0	1	1
	8801	Spindle cell sarcoma	3	5	8
	8802	Pleomorphic cell sarcoma	1	2	3
	8804	Epithelioid sarcoma	3	0	3
	8810	Fibrosarcoma, NOS	1	1	2
	8811	Fibromyxoid sarcoma	3	1	4
	8815	Solitary fibrous tumor, malignant	1	2	3
	8830	Malignant fibrous histiocytoma	4	2	6
	8850	Liposarcoma, NOS	2	4	6
	8851	Liposarcoma, well differentiated	2	4	6
	8852	Myxoid liposarcoma	0	1	1
	8854	Pleomorphic liposarcoma	1	0	1
	8858	Dedifferentiated liposarcoma	5	1	6
	8890	Leiomyosarcoma, NOS	4	2	6
	8900	Rhabdomyosarcoma, NOS	1	1	2
	8910	Embryonal rhabdomyosarcoma, NOS	1	1	2
	8912	Spindle cell rhabdomyosarcoma	2	0	2
	9040	Synovial sarcoma, NOS	3	4	7
	9041	Synovial sarcoma, spindle cell	1	0	1
	9050	Mesothelioma, malignant	0	1	1
	9120	Angiosarcoma	2	1	3
	9150	Hemangiopericytoma, malignant	0	1	1
	9560	Malignant schwannoma, NOS	0	1	1
Breast			3	762	765
(C50)	8000	Clinical, no microscopic confirmation	0	4	4
	8010	Carcinoma, NOS	0	36	36
	8140	Adenocarcinoma	0	9	9
	8201	Ductal carcinoma, cribriform type	0	1	1
	8260	Papillary adenocarcinoma	0	5	5
	8453	Intraductal papillary-mucinous carcinoma	0	1	1
	8480	Mucinous adenocarcinoma	0	13	13
	8500	Infiltrating duct carcinoma, NOS	3	656	659
	8507	Invasive micropapillary carcinoma	0	1	1
	8510	Medullary carcinoma, NOS	0	1	1



PRIMARY SITE (ICD-10)			CODE	MORPHOLOGY	MALE	FEMALE	ALL
			8520	Invasive lobular carcinoma	0	13	13
			8522	Infiltrating duct and lobular carcinoma	0	4	4
			8523	Infiltrating duct and mucinous carcinoma	0	7	7
			8541	Paget disease and infiltrating duct carcinoma of breast	0	1	1
			8543	Paget disease and intraductal carcinoma of breast	0	1	1
			8575	Metaplastic carcinoma, NOS	0	2	2
			9020	Phyllodes tumor, malignant	0	7	7
Vulva					0	9	9
(C51)			8070	Squamous cell carcinoma, NOS	0	6	6
			8720	Malignant melanoma, NOS (except juvenile melanoma)	0	2	2
			8542	Paget disease, extramammary	0	1	1
Vagina					0	7	7
(C52)			8070	Squamous cell carcinoma	0	4	4
			8140	Adenocarcinoma, NOS	0	1	1
			8380	Endometrioid adenocarcinoma, NOS	0	1	1
			8720	Malignant melanoma, NOS (except juvenile melanoma)	0	1	1
Cervix uteri					0	385	385
(C53)			8010	Carcinoma, NOS	0	8	8
			8013	Large cell neuroendocrine carcinoma	0	1	1
			8041	Small cell neuroendocrine carcinoma	0	2	2
			8070	Squamous cell carcinoma	0	208	208
			8071	Squamous cell carcinoma, keratinizing	0	17	17
			8072	Squamous cell carcinoma, nonkeratinizing, NOS	0	41	41
			8076	Squamous cell carcinoma, microinvasive	0	8	8
			8140	Adenocarcinoma, NOS	0	75	75
			8244	Composite carcinoid	0	1	1
			8246	Neuroendocrine carcinoma, NOS	0	2	2
			8260	Papillary adenocarcinoma, NOS	0	1	1
			8310	Clear cell adenocarcinoma, NOS	0	5	5
			8380	Endometrioid adenocarcinoma, NOS	0	1	1



PRIMARY SITE (ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
	8384	Adenocarcinoma, endocervical type	0	2	2
	8430	Mucoepidermoid carcinoma	0	1	1
	8480	Mucinous adenocarcinoma	0	3	3
	8560	Adenosquamous carcinoma	0	9	9
Corpus uteri			0	209	209
(C54)	8010	Carcinoma, NOS	0	4	4
	8070	Squamous cell carcinoma, NOS	0	1	1
	8140	Adenocarcinoma	0	3	3
	8255	Adenocarcinoma with mixed subtypes	0	2	2
	8310	Clear cell carcinoma	0	10	10
	8323	Mixed cell adenocarcinoma	0	9	9
	8380	Endometrioid adenocarcinoma, NOS	0	172	172
	8382	Endometrioid adenocarcinoma, ciliated cell variant	0	1	1
	8441	Serous cystadenocarcinoma, NOS	0	4	4
	8930	Endometrial stromal sarcoma, NOS	0	3	3
Uterus unspecified			0	26	26
(C55)	8800	Sarcoma, NOS	0	1	1
	8890	Leiomyosarcoma, NOS	0	7	7
	8933	Adenosarcoma	0	5	5
	8980	Carcinosarcoma, NOS	0	12	12
	9071	Endodermal sinus tumor	0	1	1
Ovary			0	198	198
(C56)	8000	Clinical, no microscopic confirmation	0	8	8
	8010	Carcinoma, NOS	0	2	2
	8140	Adenocarcinoma, NOS	0	24	24
	8255	Adenocarcinoma, mixed subtype	0	1	1
	8310	Clear cell adenocarcinoma, NOS	0	36	36
	8323	Mixed cell adenocarcinoma	0	5	5
	8380	Endometrioid adenocarcinoma, NOS	0	18	18
	8441	Serous cystadenocarcinoma, NOS	0	56	56
	8470	Mucinous cystadenocarcinoma, NOS	0	5	5
	8480	Mucinous adenocarcinoma	0	25	25



PRIMARY SITE					
(ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
	8560	Mixed adenocarcinoma and squamous cell carcinoma	0	1	1
	8570	Endometrioid adenocarcinoma, variant with squamous differentiation	0	1	1
	8980	Carcinosarcoma, NOS	0	3	3
	9060	Dysgerminoma	0	6	6
	9071	Yolk sac tumor	0	3	3
	9080	Immature teratoma, NOS	0	3	3
	9085	Mixed germ cell tumor	0	1	1
Placenta			0	5	5
(C58)	9100	Choriocarcinoma, NOS	0	5	5
Penis			8	0	8
(C60)	8070	Squamous cell carcinoma	8	0	8
Prostate			138	0	138
(C61)	8000	Clinical, no microscopic confirmation	7	0	7
	8010	Carcinoma, NOS	1	0	1
	8140	Adenocarcinoma	127	0	127
	8246	Neuroendocrine carcinoma, NOS	1	0	1
	8323	Mixed cell adenocarcinoma	1	0	1
	8805	Undifferentiated sarcoma	1	0	1
Testis			12	1 (Swyer syndrome)	13
(C62)	8246	Neuroendocrine carcinoma, NOS	1	0	1
	9061	Seminoma, NOS	9	1	10
	9071	Yolk sac tumor	1	0	1
	9085	Mixed germ cell tumor	1	0	1
Other male genital					
(C63)	8542	Paget disease, extramammary	0	1	1



PRIMARY SITE					
(ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
Kidney			47	12	59
(C64)	8000	Clinical, no microscopic confirmation	4	3	7
	8000	Malignancy, NOS	1	0	1
	8004	Malignant tumor, spindle cell type	1	0	1
	8010	Carcinoma, NOS	1	0	1
	8070	Squamous cell carcinoma, NOS	1	0	1
	8140	Adenocarcinoma, NOS	1	0	1
	8260	Papillary renal cell carcinoma	1	0	1
	8310	Clear cell renal cell carcinoma	8	4	12
	8312	Renal cell carcinoma, NOS	22	3	25
	8317	Renal cell carcinoma, chromophobe type	1	0	1
	8801	Spindle cell sarcoma	0	1	1
	8960	Nephroblastoma, NOS	5	1	6
	8964	Clear cell sarcoma of kidney	1	0	1
Renal pelvis			3	2	5
(C65)	8000	Clinical, no microscopic confirmation	1	1	2
	8120	Urothelial carcinoma	1	0	1
	8130	Papillary transitional cell carcinoma	1	1	2
Ureter			2	1	3
(C66)	8010	Carcinoma, NOS	1	0	1
	8120	Urothelial carcinoma, NOS	0	1	1
	8130	Papillary urothelial carcinoma	1	0	1
Bladder			70	17	87
(C67)	8000	Clinical, no microscopic confirmation	1	0	1
	8010	Carcinoma, NOS	1	0	1
	8070	Squamous cell carcinoma, NOS	2	0	2
	8120	Urothelial carcinoma	47	8	55
	8122	Transitional cell carcinoma, sarcomatoid	2	0	2
	8130	Papillary transitional cell carcinoma	15	8	23
	8140	Adenocarcinoma, NOS	0	1	1
	8290	Hurthle carcinoma	1	0	1
	8480	Mucinous adenocarcinoma	1	0	1



PRIMARY SITE					
(ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
Urinary system, NOS			0	1	1
(C68)	8140	Adenocarcinoma, NOS	0	1	1
Eye			1	2	3
(C69)	8000	Clinical, no microscopic confirmation	0	4	4
	8070	Squamous cell carcinoma	5	3	8
	8140	Adenocarcinoma	1	0	1
	8720	Malignant melanoma, NOS (except juvenile melanoma)	1	0	1
	9510	Retinoblastoma, NOS	1	1	2
Brain, nervous system			40	54	94
(C70-C72)	8000	Clinical, no microscopic confirmation	2	7	9
	9064	Germinoma	1	1	2
	9080	Immature teratoma, NOS	1	0	1
	9085	Mixed germ cell tumor	1	0	1
	9150	Hemangiopericytoma, malignant	0	1	1
	9370	Chordoma, NOS	1	0	1
	9380	Glioma, malignant	0	3	3
	9382	Oligoastrocytoma	1	1	2
	9391	Ependymoma, NOS	3	0	3
	9392	Anaplastic ependymoma	2	1	3
	9400	Astrocytoma, NOS	2	10	12
	9401	Astrocytoma, anaplastic	5	10	15
	9421	Pilocytic astrocytoma	1	0	1
	9440	Glioblastoma, NOS	13	12	25
	9442	Gliosarcoma	0	2	2
	9450	Oligodendroglioma, NOS	1	2	3
	9451	Oligodendroglioma, anaplastic	1	0	1
	9460	Oligodendroblastoma	1	0	1
	9470	Medulloblastoma, NOS	2	4	6
	9471	Desmoplastic nodular medulloblastoma	1	0	1
	9530	Anaplastic meningioma	1	0	1



PRIMARY SITE					
(ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
Thyroid			78	303	381
(C73)	8000	Clinical, no microscopic confirmation	0	3	3
	8000	Malignancy, NOS	1	1	2
	8010	Carcinoma, NOS	1	5	6
	8020	Carcinoma, undifferentiated, NOS	1	0	1
	8021	Carcinoma, anaplastic, NOS	3	2	5
	8260	Papillary adenocarcinoma, NOS	49	209	258
	8290	Hurthle cell carcinoma	1	1	2
	8330	Follicular carcinoma, NOS	10	32	42
	8335	Follicular carcinoma, minimally invasive	1	8	9
	8340	Papillary adenocarcinoma, follicular variant	9	25	34
	8341	Papillary microcarcinoma	2	14	16
	8345	Medullary carcinoma of thyroid	0	1	1
	8510	Medullary carcinoma, NOS	0	2	2
Adrenal gland			10	4	14
(C74)	8010	Carcinoma, NOS	1	0	1
	8246	Neuroendocrine carcinoma, NOS	1	1	2
	8700	Pheochromocytoma, malignant	0	1	1
	9490	Ganglioneuroblastoma	0	1	1
	9500	Neuroblastoma, NOS	8	1	9
Other endocrine			4	3	7
(C75)	8000	Clinical, no microscopic confirmation	0	1	1
	8010	Carcinoma, NOS	0	1	1
	8246	Neuroendocrine carcinoma	1	0	1
	8680	Paraganglioma, malignant	0	1	1
	9064	Germinoma	3	0	3
Hodgkin lymphoma			13	12	25
(C81)	9650	Hodgkin lymphoma, NOS	0	1	1
	9652	Hodgkin lymphoma, mixed cellularity, NOS	8	3	11
	9653	Hodgkin lymphoma, lymphocyte depletion, NOS	1	1	2
	9659	Hodgkin lymphoma, nodular lymphocyte predominance	0	1	1
	9663	Hodgkin disease, nodular sclerosis, NOS	4	6	10



PRIMARY SITE (ICD-10)			MALE	FEMALE	ALL
Non-Hodgkin lymphoma			123	108	231
(C82-C85)	9590	Lymphoma, NOS	3	0	3
	9591	Malignant lymphoma, non-Hodgkin, NOS	8	2	10
	9670	Malignant lymphoma, small B lymphocytic, NOS	2	0	2
	9675	Malignant lymphoma, mixed small and large cell, diffuse	1	0	1
	9680	Diffuse large B-cell lymphoma	77	77	154
	9684	Plasmablastic lymphoma	1	1	2
	9687	Burkitt lymphoma, NOS	3	1	4
	9690	Follicular lymphoma, NOS	2	1	3
	9691	Follicular lymphoma, grade 2	0	1	1
	9695	Follicular lymphoma, grade 1	7	7	14
	9698	Follicular lymphoma, grade 3	0	2	2
	9700	Mycosis fungoides	1	0	1
	9702	Peripheral T-cell lymphoma, NOS	4	10	14
	9705	Angioimmunoblastic T-cell lymphoma	5	1	6
	9709	Cutaneous T-cell lymphoma, NOS	4	4	8
	9714	Anaplastic large cell lymphoma, NOS	3	1	4
	9717	Intestinal T-cell lymphoma	1	0	1
	9718	Primary cutaneous CD30+ T-cell lymphoproliferative disorder	1	0	1
Immunoproliferative disease			6	4	10
(C88)	9699	Extranodal marginal zone B-cell lymphoma, MALT type	6	4	10
Multiple myeloma			28	37	65
(C90)	9731	Plasmacytoma, NOS	2	2	4
	9732	Multiple myeloma	26	34	60
	9734	Plasmacytoma, extramedullary (not occurring in bone)	0	1	1
Lymphoid leukemia			22	14	36
(C91)		B-cell chronic lymphocytic leukemia/small lymphocytic lymphoma			
	9823		6	7	13
	9835	Precursor cell lymphoblastic leukemia, NOS	16	7	23

PRIMARY SITE					
(ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
Myeloid leukemia			28	17	45
(C92-C94)	9861	Acute myeloid leukemia, NOS	15	12	27
	9863	Chronic myeloid leukemia, NOS	8	4	12
	9867	Acute myelomonocytic leukemia	1	0	1
	9891	Acute monocytic leukemia	1	1	2
	9895	Acute myeloid leukemia with prior myelodysplastic syndrome	1	0	1
	9945	Chronic myelomonocytic leukemia, NOS	2	0	2
Leukemia unspecified			4	2	6
(C95)	9800	Leukemia, NOS	2	1	3
	9801	Acute leukemia, NOS	1	1	2
	9861	Acute myeloid leukemia, NOS	1	0	1
Other & unspecified			38	43	81
(C26, C39, C42, C48, C76, C77, C80)	8000	Clinical, no microscopic confirmation	4	5	9
	8000	Malignancy, NOS	1	3	4
	8004	Malignant tumor, spindle cell type	0	1	1
	8010	Carcinoma, NOS	9	3	12
	8012	Large cell carcinoma, NOS	0	1	1
	8041	Small cell carcinoma, NOS	1	0	1
	8046	Non-small cell carcinoma	1	0	1
	8070	Squamous cell carcinoma	10	3	13
	8140	Adenocarcinoma, NOS	10	17	27
	8246	Neuroendocrine carcinoma	0	2	2
	8401	Apocrine carcinoma	1	0	1
	8441	Serous cystadenocarcinoma, NOS	0	4	4
	8480	Mucinous adenocarcinoma	0	3	3
	8490	Signet ring cell adenocarcinoma	0	1	1
	9080	Immature teratoma, malignant	1	0	1
Myeloproliferative diseases			7	11	18
(D45, D47)	9950	Polycythemia vera	1	0	1
	9960	Chronic myeloproliferative disorder	2	1	3



PRIMARY SITE (ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
	9961	Primary myelofibrosis	1	0	1
	9962	Essential hemorrhagic thrombocythemia	3	8	11
	9975	Myeloproliferative disease, NOS	0	2	2
Myelodysplastic syndromes			4	1	5
(D46)	9989	Myelodysplastic syndrome, NOS	4	1	5

APPENDIX: DEFINITIONS

BRAIN TUMOR	Excluding meningeal and cranial nerve tumor.
CANCER CASE	Excluding in situ neoplasms.
CODING	Topography according to the ICD-10, and morphology according to the ICD-O, third edition, coding in childhood based on International Classification of Childhood Cancer, Third edition (ICCC-3).
NEW CASE	Cancer case diagnosed at Songklanagarind Hospital or referred to Songklanagarind Hospital in the year reported.
NOS.	Not Otherwise Specified.