



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

HOSPITAL-BASED TUMOR REGISTRY

SONGKLANAGARIND HOSPITAL ANNUAL REPORT 2016

EDITED BY
PARADEE PRECHAWITTAYAKUL, B.Sc.
August, 2018



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

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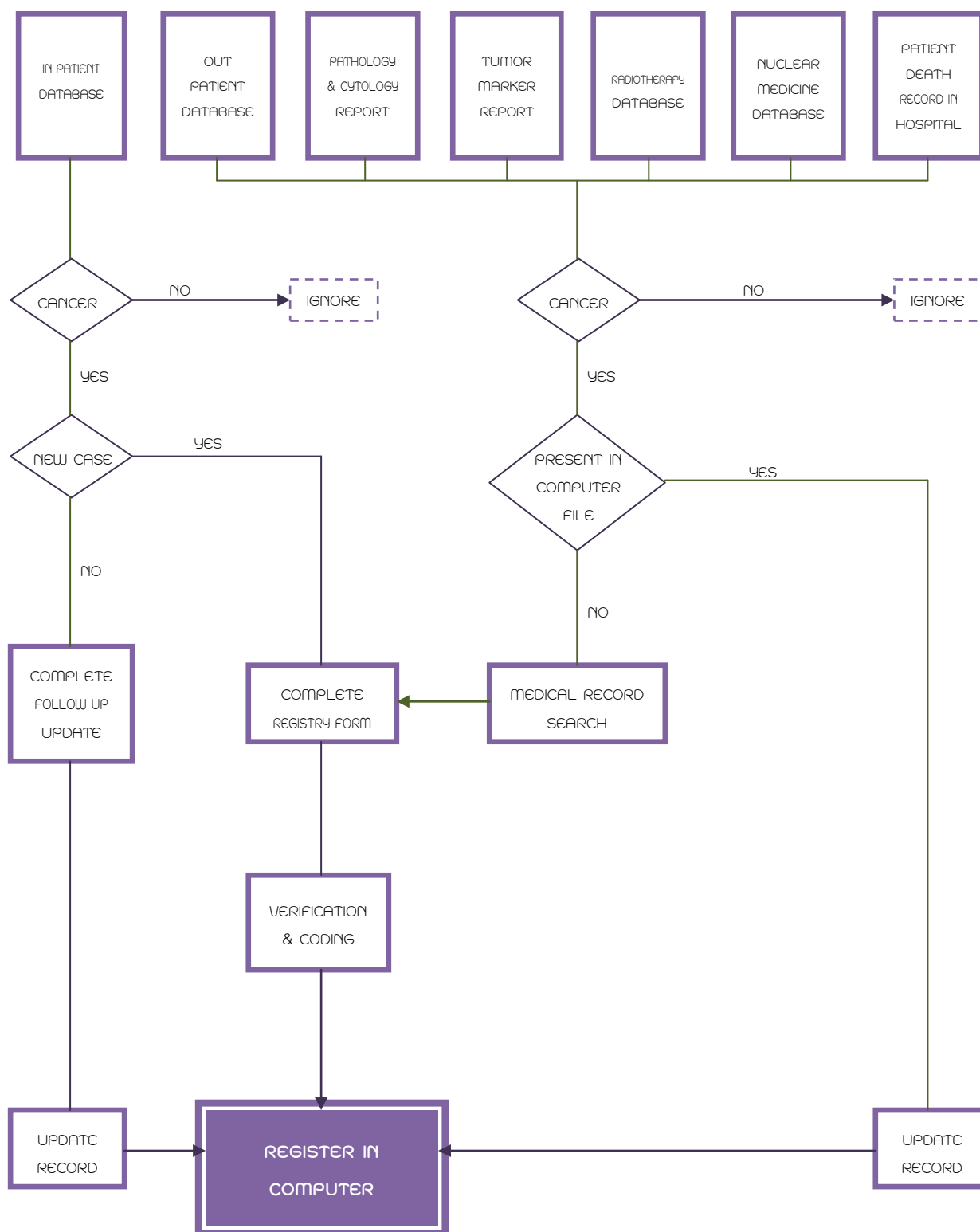
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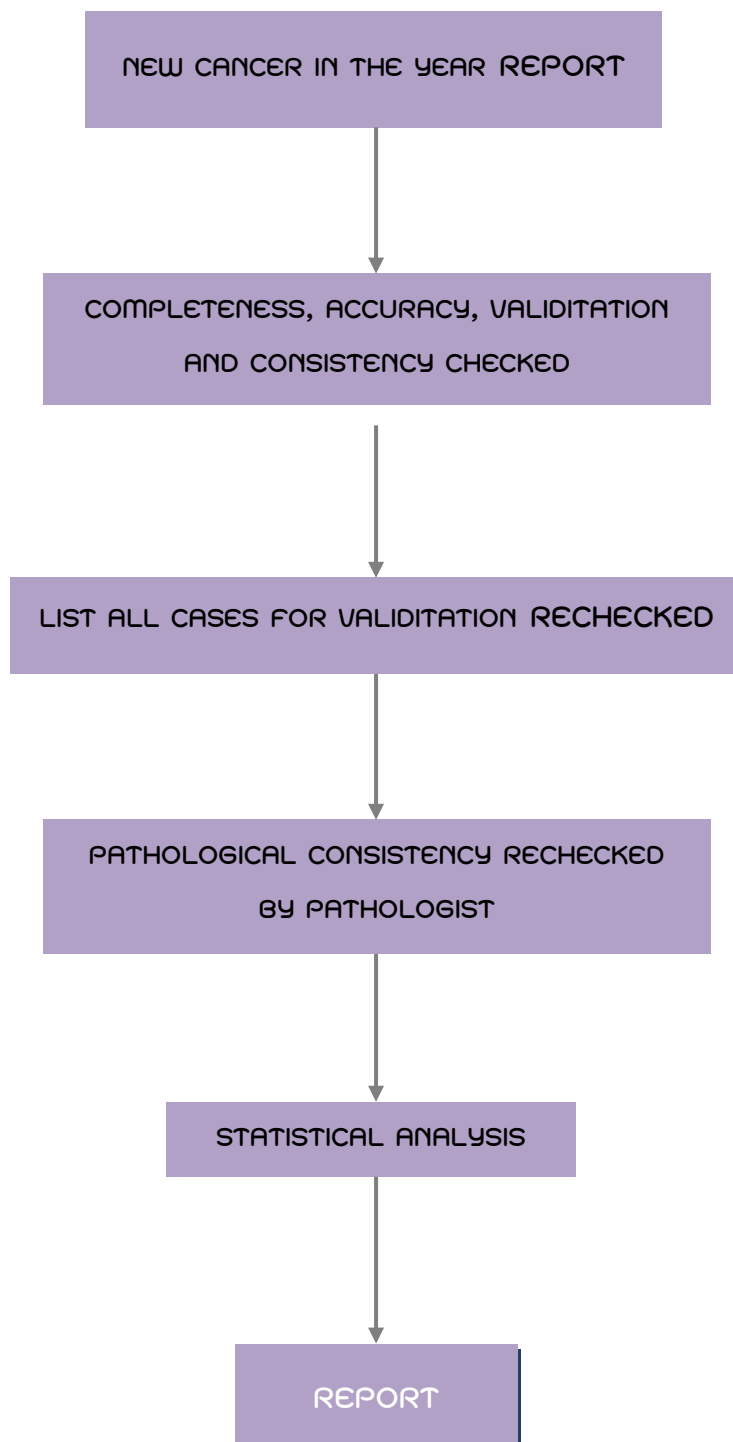
CANCER REGISTRY STAFF

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 2016, among 1,005,423 patients who attended Songklanagarind Hospital, 5,806 cases were new cancer patients. Males accounted for 2,818 cancer cases (48.5%). The three most payment used were universal coverage Scheme (52.1%) government/state enterprise (20.6%) and self payment (8.3%) respectively. The three most common sites, disregarding gender, were breast (676 cases, 11.6%), lung (646 cases, 11.1%), and liver (492 cases, 8.5%). The three most common primary sites in males were the lung (14.4%), liver (12.0%) and colon & rectum (8.5%). The three most common primary sites in females were the breast (22.5%), uterine cervix (10.1%) and thyroid (8.5%). There were 144 cases (2.5%) of childhood malignancy of which the most common type was leukemia.

The percentage of histologically confirmed cases was 85.9% in males and 92.9% in females. The three most common provinces of residence were Songkhla, Nakhon Si Thammarat and Phattalung.



TABLE 1: NUMBER OF PATIENTS IN SONGKLANAGARIND HOSPITAL

TYPE OF PATIENTS	NUMBER OF CASES
Total patients at outpatient department	1,005,423
New patients of hospital	23,244
New cancer patients	5,806

The new cancers were 25.0 % of new patients of Songklanakarind hospital in year 2016.

FIGURE 1: TREND OF NEW CANCER CASES IN SONGKLANAGARIND HOSPITAL

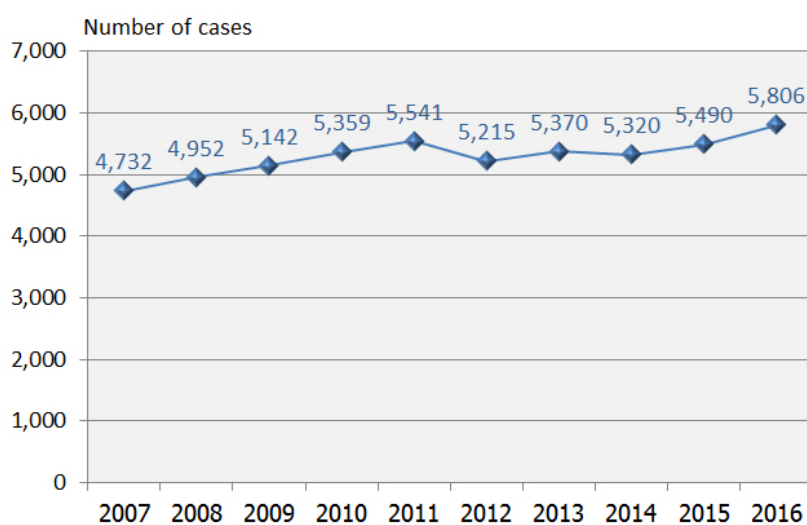


FIGURE 2: NEW CANCER CASES AS A PERCENTAGE OF YEAR BY YEAR

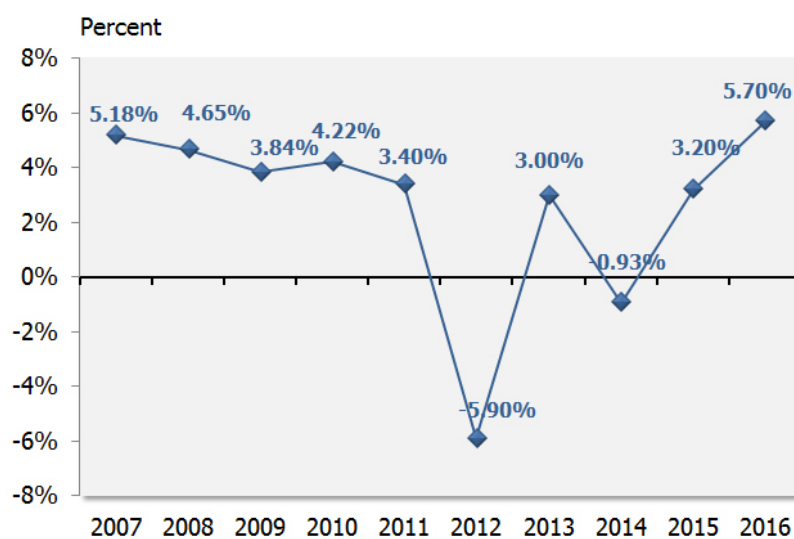


FIGURE 3: NUMBER OF NEW CANCER CASES BY MONTH

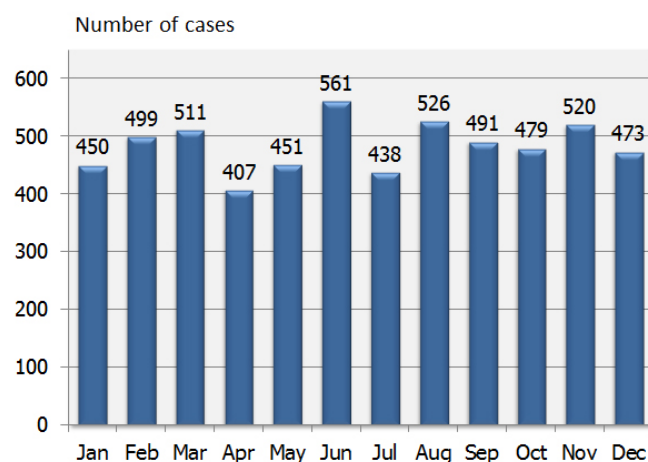


TABLE 2: PATIENT CATEGORIES OF DIAGNOSIS AND TREATMENT

PATIENT CATEGORY	NUMBER	PERCENT
Diagnosed(other), treated(here)	1,792	30.9%
Diagnosed(here), treated(here)	1,252	21.6%
Diagnosed(other), treated(here&other)	1,032	17.8%
Diagnosed(here), no treatment	446	7.7%
Diagnosed(other), treated(other)	324	5.6%
Diagnosed(other), no treatment(here&other)	960	16.5%
Total	5,806	100.0%

*Here means Songklanagarind hospital.

TABLE 3: DISTRIBUTION OF CANCERS TRENDS RECEIVED INITIAL DIAGNOSIS OR TREATMENT

YEAR	NUMBER OF NEW CANCER	CANCERS RECEIVED INITIAL DIAGNOSIS OR TREATMENT	
		NUMBER	%
2007	4,732	2,989	63.2%
2008	4,952	3,157	63.8%
2009	5,142	3,290	64.0%
2010	5,359	3,582	66.8%
2011	5,541	3,483	62.9%
2012	5,215	3,313	63.5%
2013	5,370	3,525	65.6%
2014	5,320	3,554	66.8%
2015	5,493	3,916	71.3%
2016	5,806	4,110	70.8%

FIGURE 4: TRENDS OF CANCERS RECEIVED INITIAL DIAGNOSIS OR TREATMENT

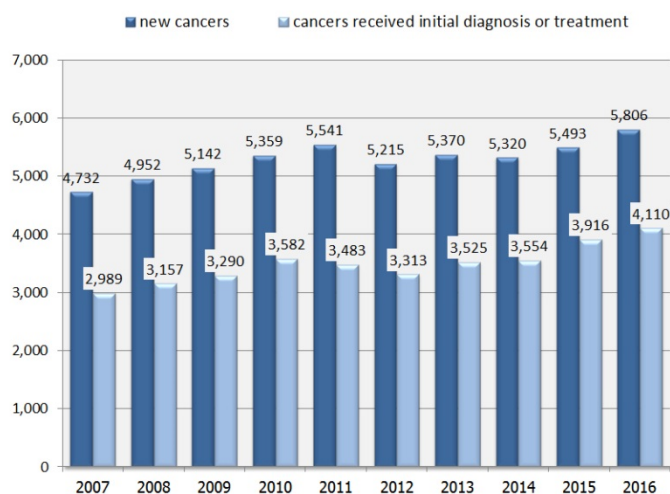


TABLE 4: DISTRIBUTION OF PATIENT PAYMENT USED

PAYMENT CATEGORIES	%	No.
Universal Coverage Scheme(UCS)	52.1%	3,027
Government/ State Enterprise Officer(OFC)	20.6%	1,195
Self Payment	8.3%	480
Social Security Scheme(SSS)	6.7%	391
Local Administrative Organization	2.5%	148
Alien Worker	0.2%	14
Others	0.6%	32
Not specified	8.9%	519
	100.0%	5,806

FIGURE 5: PERCENTAGE OF PATIENT PAYMENT USED

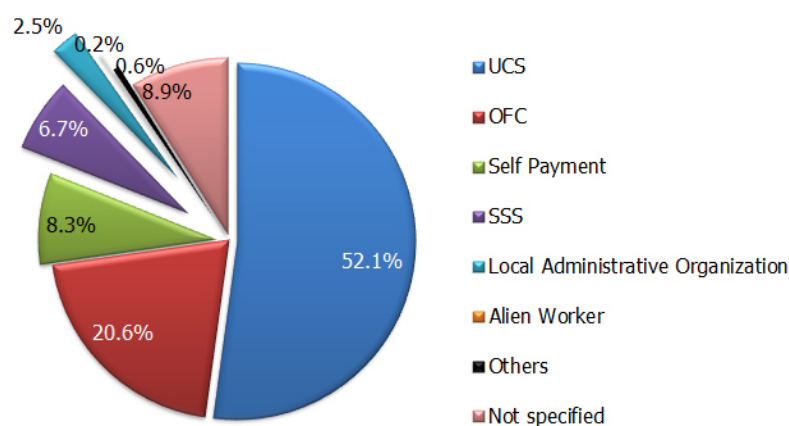


FIGURE 6: TRENDS OF PATIENT PAYMENT USED: PERCENTAGE

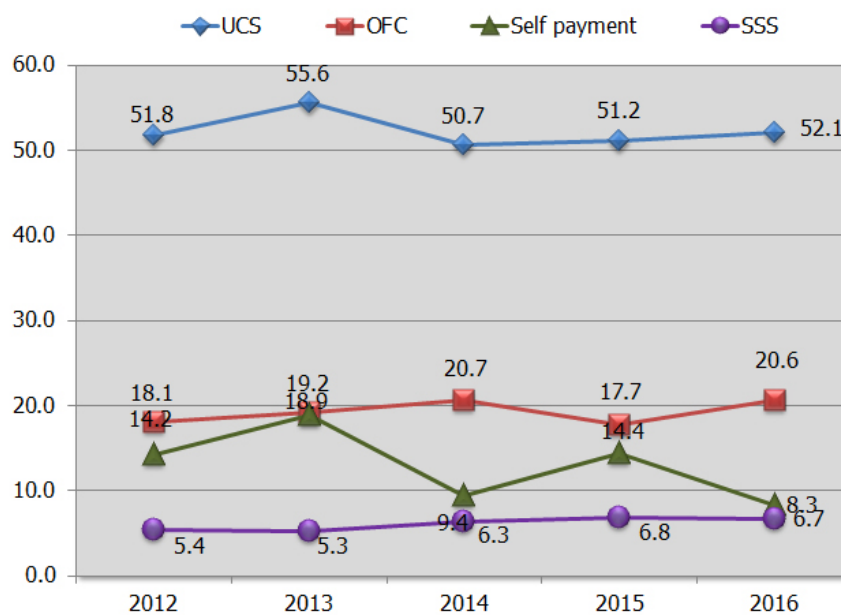


FIGURE 7: DISTRIBUTION OF RELIGION IN CANCER PATIENTS: PERCENTAGE

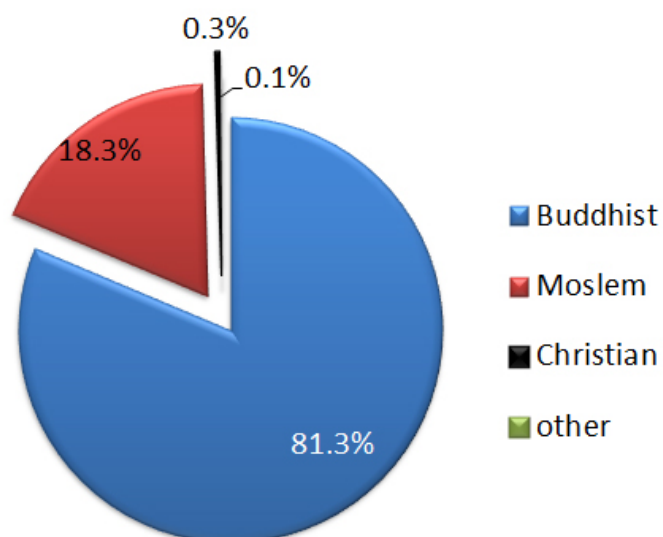


TABLE 5: CANCER CASES BY PROVINCE OF RESIDENCE

AREA	NUMBER	PERCENT
Songkhla	1,400	24.1%
Nakhon Si Thammarat	1,091	18.8%
Phatthalung	623	10.7%
Trang	522	9.0%
Narathiwat	360	6.2%
Pattani	300	5.2%
Yala	246	4.2%
Phuket	232	4.0%
Krabi	225	3.9%
Satun	224	3.9%
Surat Thani	220	3.8%
Phangnga	175	3.0%
Chumphon	81	1.4%
Ranong	56	1.0%
Non-Southern Provinces	51	0.9%
	5,806	100.0%



FIGURE 8: PERCENTAGE OF PATIENT BY RESIDENCE

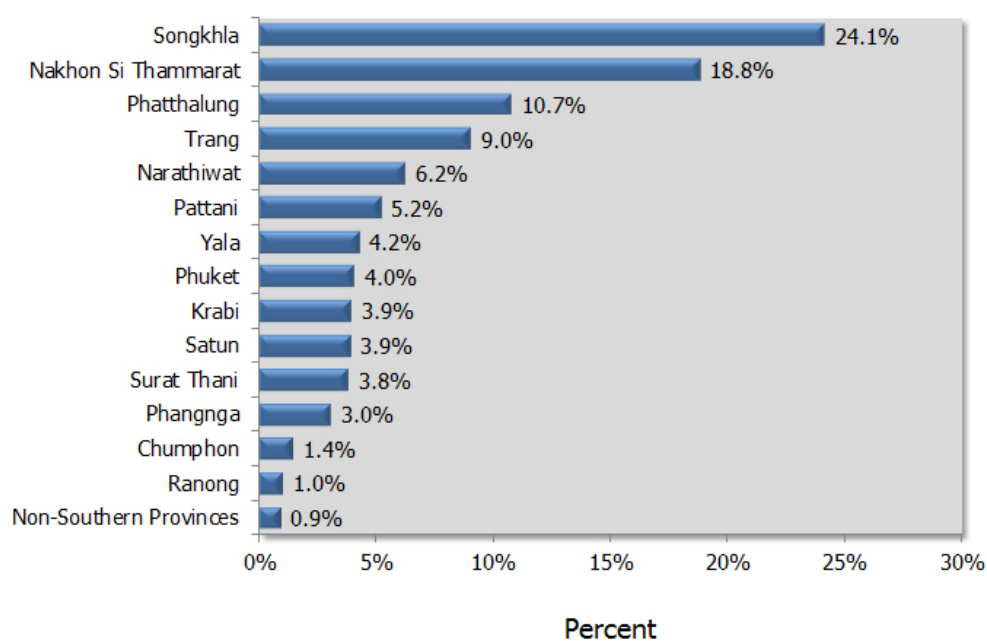


TABLE 6: DISTRIBUTION OF ALL NEWLY DIAGNOSED CANCER CASES BY AGE AND GENDER

AGE GROUP	Males		Females		Total	
	No	% OF ALL CANCER	No	% OF ALL CANCER	No	% OF ALL CANCER
0-	39	0.7%	19	0.3%	58	1.0%
5-	26	0.4%	13	0.2%	39	0.7%
10-	25	0.4%	23	0.4%	48	0.8%
15-	28	0.5%	21	0.4%	49	0.8%
20-	28	0.5%	46	0.8%	74	1.3%
25-	37	0.6%	58	1.0%	95	1.6%
30-	51	0.9%	93	1.6%	144	2.5%
35-	87	1.5%	179	3.1%	266	4.6%
40-	116	2.0%	257	4.4%	373	6.4%
45-	177	3.0%	343	5.9%	520	9.0%
50-	311	5.4%	405	7.0%	716	12.3%
55-	370	6.4%	396	6.8%	766	13.2%
60-	372	6.4%	340	5.9%	712	12.3%
65-	345	5.9%	267	4.6%	612	10.5%
70-	315	5.4%	182	3.1%	497	8.6%
75-	251	4.3%	169	2.9%	420	7.2%
80-	161	2.8%	116	2.0%	277	4.8%
85+	79	1.4%	61	1.1%	140	2.4%
	2,818	48.5%	2,988	51.5%	5806	100.0%

Male age; mean = 60.0, median = 61

Female age; mean = 54.72, median = 55

FIGURE 9: AGE DISTRIBUTION OF ALL MALIGNANCIES

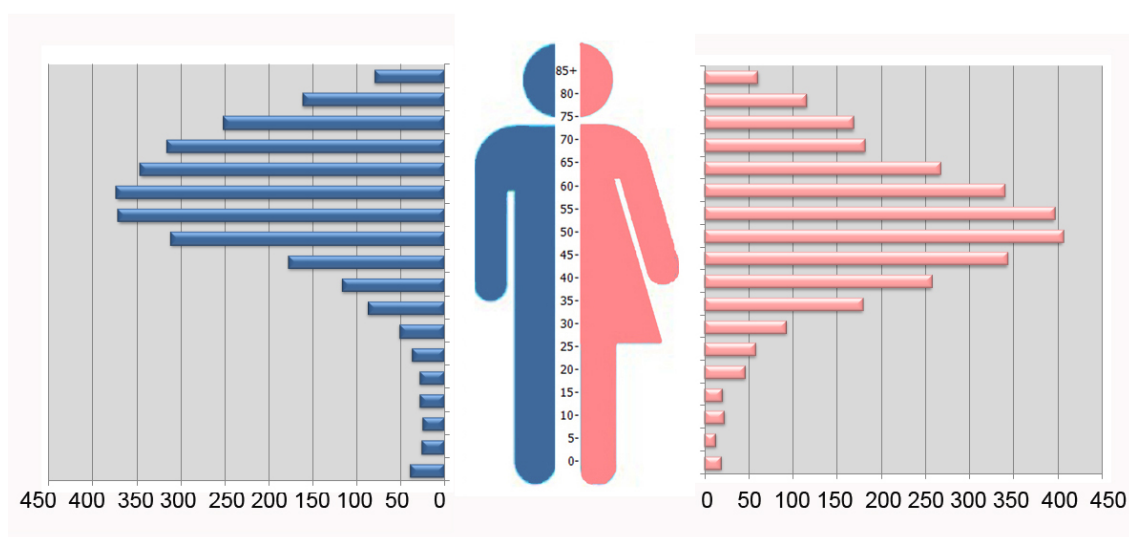


TABLE 7: DISTRIBUTION OF CASES ACCORDING TO METHOD OF DIAGNOSIS

METHOD OF DIAGNOSIS	MALE		FEMALE	
	NO.	% IN MALES	NO.	% IN FEMALES
Clinical only	13	0.5%	18	0.6%
Clinical investigation and imaging	219	7.8%	145	4.9%
Surgery without histology	1	0.0%	1	0.0%
Specific biochemistry	164	5.8%	48	1.6%
Cytology or hematology	55	2.0%	32	1.1%
Histology of metastasis	43	1.5%	24	0.8%
Histology of primary	2323	82.4%	2720	91.0%
	2,818	100.0%	2,988	100.0%

FIGURE 10: METHODS OF DIAGNOSIS

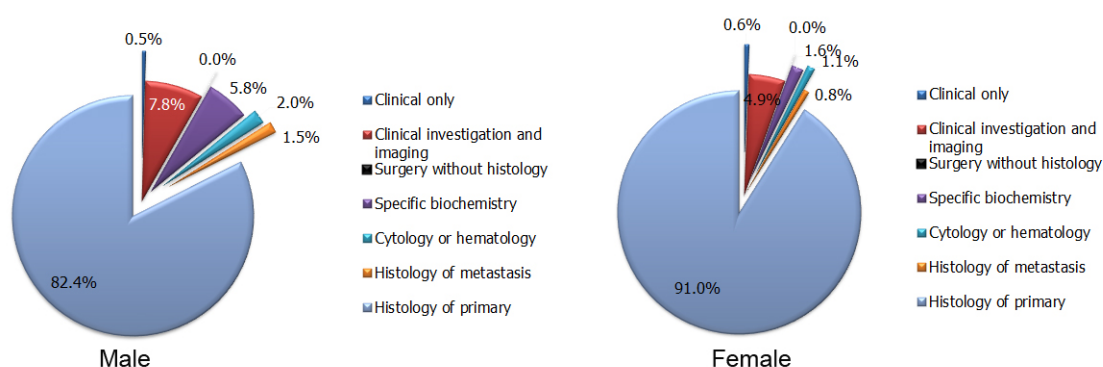


TABLE 8: PERCENTAGE OF MORPHOLOGICALLY VERIFIED CASES (%MV)

ICD-10	PRIMARY SITE	Male			Female			All		
		ALL	Number of Micro. Verified	%MV In Males	ALL	Number of Micro. Verified	%MV In Females	ALL	Number of Micro. Verified	%MV All gender
C00	Lip	2	2	100.0%	6	6	100.0%	8	8	100.0%
C01-C02	Tongue	109	109	100.0%	29	29	100.0%	138	138	100.0%
C03-C06	Mouth	91	91	100.0%	34	34	100.0%	125	125	100.0%
C07-C08	Salivary gland	23	23	100.0%	17	17	100.0%	40	40	100.0%
C09	Tonsil	39	38	97.4%	2	2	100.0%	41	40	97.6%
C10	Oropharynx	32	32	100.0%	0	0	0.0%	32	32	100.0%
C11	Nasopharynx	70	70	100.0%	30	30	100.0%	100	100	100.0%
C12-C13	Hypopharynx	73	73	100.0%	6	6	100.0%	79	79	100.0%
C14	Pharynx, unspecified	5	5	100.0%	4	4	100.0%	9	9	100.0%



TABLE 8: (CONT) PERCENTAGE OF MORPHOLOGICALLY VERIFIED CASES (%MV)

ICD-10	PRIMARY SITE	Male			Female			All		
		ALL	Number of Micro. Verified	%MV In Males	ALL	Number of Micro. Verified	%MV In Females	ALL	Number of Micro. Verified	%MV All gender
C15	Esophagus	164	157	95.7%	21	21	100.0%	185	178	96.2%
C16	Stomach	30	29	96.7%	24	22	91.7%	54	51	94.4%
C17	Small intestine	3	3	100.0%	7	6	85.7%	10	9	90.0%
C18	Colon	94	91	96.8%	103	97	94.2%	197	188	95.4%
C19-C20	Rectum	145	142	97.9%	101	98	97.0%	246	240	97.6%
C21	Anus	11	11	100.0%	9	9	100.0%	20	20	100.0%
C22	Liver	338	65	19.2%	154	32	20.8%	492	97	19.7%
C23-C24	Gallbladder etc.	42	29	69.0%	29	21	72.4%	71	50	70.4%
C25	Pancreas	34	24	70.6%	31	25	80.6%	65	49	75.4%
C30-31	Nose, sinuses etc.	21	21	100.0%	10	10	100.0%	31	31	100.0%
C32	Larynx	103	103	100.0%	4	4	100.0%	107	107	100.0%
C33-C34	Bronchus and lung	405	387	95.6%	241	226	93.8%	646	613	94.9%
C37-C38	Other thoracic organs	13	9	69.2%	1	1	100.0%	14	10	71.4%
C40-C41	Bone	15	14	93.3%	13	12	92.3%	28	26	92.9%
C43	Melanoma of skin	9	9	100.0%	16	16	100.0%	25	25	100.0%
C44	Other skin	80	79	98.8%	72	72	100.0%	152	151	99.3%
C46	Kaposi sarcoma	1	1	100.0%	0	0	0.0%	1	1	100.0%
C47; C49	Connective and soft tissue	43	39	90.7%	46	43	93.5%	89	82	92.1%
C50	Breast	5	5	100.0%	671	660	98.4%	676	665	98.4%
C51	Vulva	0	0	0.0%	19	19	100.0%	19	19	100.0%
C52	Vagina	0	0	0.0%	2	2	100.0%	2	2	100.0%
C53	Cervix uteri	0	0	0.0%	301	299	99.3%	301	299	99.3%
C54	Corpus uteri	0	0	0.0%	183	182	99.5%	183	182	99.5%
C55	Uterus unspecified	0	0	0.0%	35	35	100.0%	35	35	100.0%
C56	Ovary	0	0	0.0%	185	177	95.7%	185	177	95.7%
C57	Other female genital	0	0	0.0%	4	4	100.0%	4	4	100.0%
C58	Placenta	0	0	0.0%	5	5	100.0%	5	5	100.0%
C60	Penis	20	19	95.0%	0	0	0.0%	20	19	95.0%
C61	Prostate	150	136	90.7%	0	0	0.0%	150	136	90.7%



TABLE 8: (CONT) PERCENTAGE OF MORPHOLOGICALLY VERIFIED CASES (%MV)

ICD-10	PRIMARY SITE	Male			Female			All		
		ALL	Number of Micro. Verified	%MV In Males	ALL	Number of Micro. Verified	%MV In Females	ALL	Number of Micro. Verified	%MV All gender
C62	Testis	19	16	84.2%	0	0	0.0%	19	16	84.2%
C63	Other male genital	4	3	75.0%	0	0	0.0%	4	3	75.0%
C64	Kidney	38	27	71.1%	15	9	60.0%	53	36	67.9%
C65	Renal pelvis	2	1	50.0%	1	1	100.0%	3	2	66.7%
C66	Ureter	1	1	100.0%	0	0	0.0%	1	1	100.0%
C67	Bladder	94	87	92.6%	12	12	100.0%	106	99	93.4%
C68	Other urinary organs	1	1	100.0%	2	2	100.0%	3	3	100.0%
C69	Eye	10	9	90.0%	7	5	71.4%	17	14	82.4%
C70-C72	Brain, nervous system	62	52	83.9%	27	23	85.2%	89	75	84.3%
C73	Thyroid	51	51	100.0%	255	253	99.2%	306	304	99.3%
C74	Adrenal gland	9	9	100.0%	5	4	80.0%	14	13	92.9%
C75	Other endocrine	3	3	100.0%	2	2	100.0%	5	5	100.0%
C81	Hodgkin's disease	19	19	100.0%	9	9	100.0%	28	28	100.0%
C82-C85, C96	Non-Hodgkin lymphoma	144	144	100.0%	109	109	100.0%	253	253	100.0%
C90	Multiple myeloma	27	27	100.0%	19	19	100.0%	46	46	100.0%
C91	Lymphoid leukemia	38	38	100.0%	21	21	100.0%	59	59	100.0%
C92-C94	Myeloid leukemia	45	44	97.8%	28	28	100.0%	73	72	98.6%
C95	Leukemia unspecified	4	4	100.0%	5	5	100.0%	9	9	100.0%
O&U(c26, c39,c42,c 48,c76,c8 0, c88)	Other and unspecified	75	67	89.3%	56	48	85.7%	131	115	87.8%
MPD(9960)	Myeloproliferative disorders	2	1	50.0%	0	0	0.0%	2	1	50.0%
	TOTAL	2,818	2,420	85.9%	2,988	2,776	92.9%	5,806	5,196	89.5%

TABLE 9: THE 10 LEADING SITES OF CANCER IN ALL GENDER

ICD-10	PRIMARY SITE(Short title used)	NO.	% OF ALL CANCER
C50	Breast	676	11.6%
C33-C34	Bronchus and lung	646	11.1%
C22	Liver	492	8.5%
C18-20	Colon and Rectum	443	7.6%
C73	Thyroid	306	5.3%
C53	Cervix uteri	301	5.2%
C82-C85, C96	Non-Hodgkin lymphoma	253	4.4%
C56	Ovary	185	3.2%
C15	Esophagus	185	3.2%
C54	Corpus uteri	183	3.2%

FIGURE 14: THE 10 LEADING SITES OF CANCER IN ALL GENDER

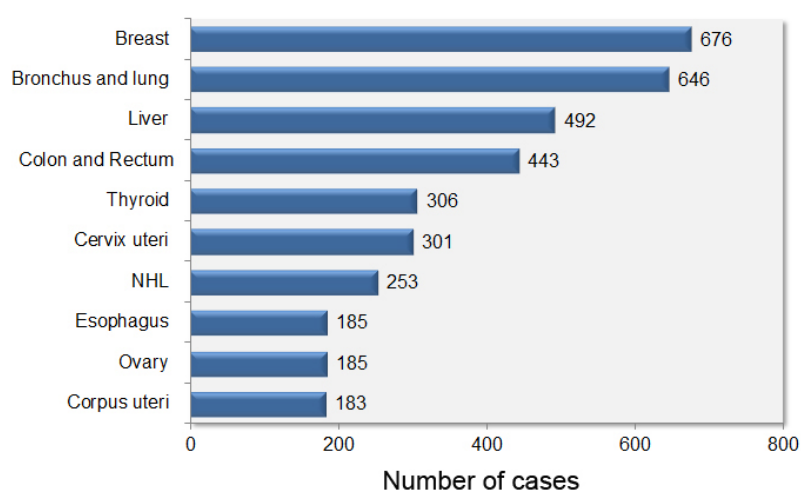


TABLE 11: THE 10 LEADING SITES OF CANCER IN MALES

ICD-10	PRIMARY SITE (Short title used)	NO.	% IN MALES
C34	Bronchus and lung	405	14.4%
C22	Liver	338	12.0%
C18-C20	Colon and Rectum	239	8.5%
C01-C06	Oral cavity	200	7.1%
C15	Esophagus	164	5.8%
C61	Prostate	150	5.3%
C82-C85, C96	Non-Hodgkin lymphoma	144	5.1%
C01-C02	Tongue	109	3.9%
C32	Larynx	103	3.7%
C67	Bladder	94	3.3%

FIGURE 15: THE 10 LEADING SITES OF CANCER IN MALES

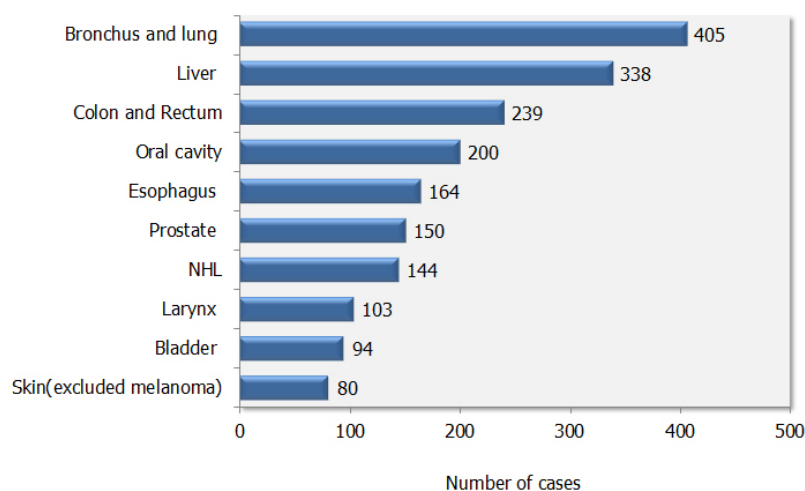


FIGURE 16: TRENDS OF FIVE LEADING SITES IN MALES: NUMBER & PERCENT

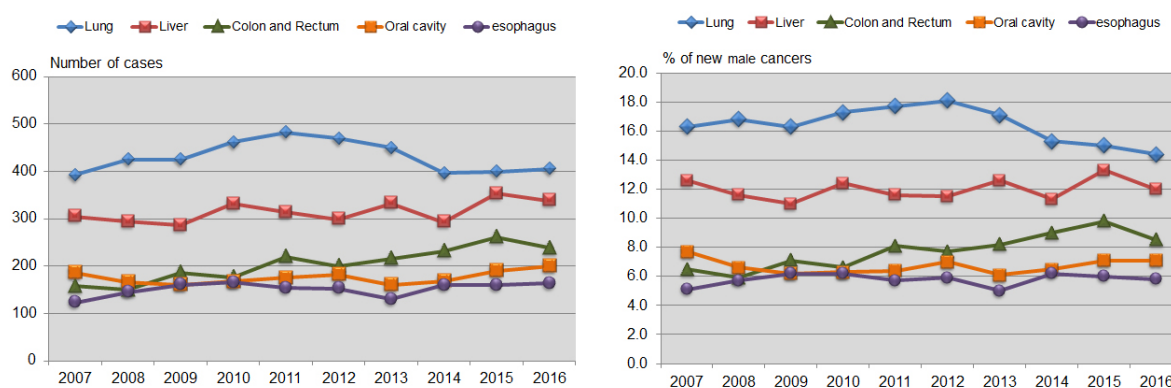


TABLE 12: THE 10 LEADING SITES OF CANCER IN FEMALES

ICD-10	PRIMARY SITE (Short title used)	NO.	% IN FEMALES
C50	Breast	671	22.5%
C53	Cervix uteri	301	10.1%
C73	Thyroid	255	8.5%
C34	Bronchus and lung	241	8.1%
C18-C20	Colon and Rectum	204	6.8%
C56	Ovary	185	6.2%
C54	Corpus uteri	183	6.1%
C22	Liver	154	5.2%
C82-C85, C96	NHL	109	3.6%
C44	Skin(excluded melanoma)	72	2.4%

FIGURE 17: THE 10 LEADING SITES OF CANCER IN FEMALES

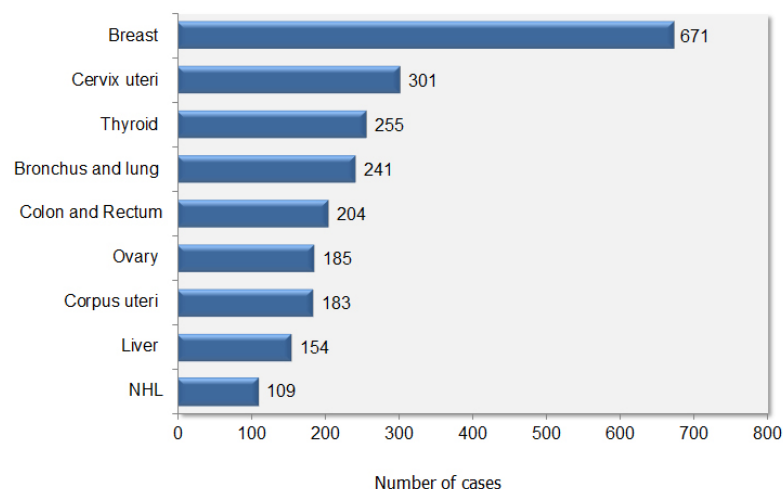


FIGURE 18: TRENDS OF FIVE LEADING SITES IN FEMALES: NUMBER & PERCENT

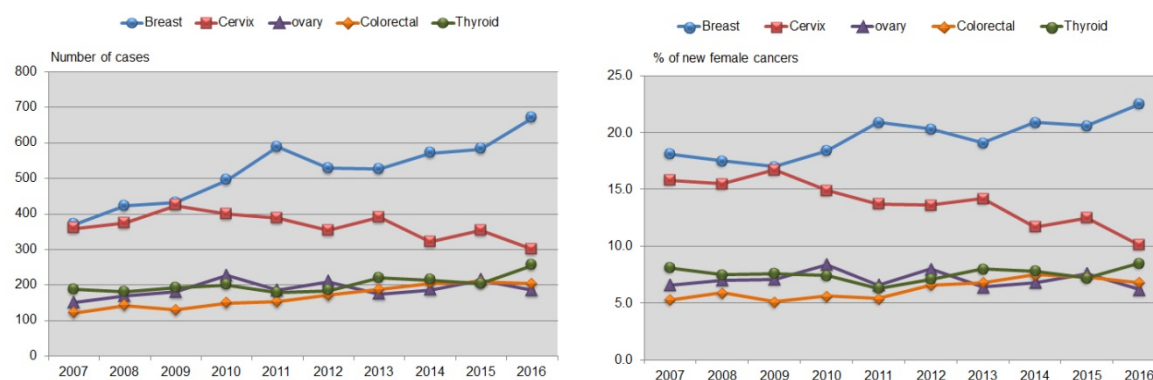


TABLE 13: MALIGNANCY IN CHILDHOOD (AGE 0-14 YEARS) *

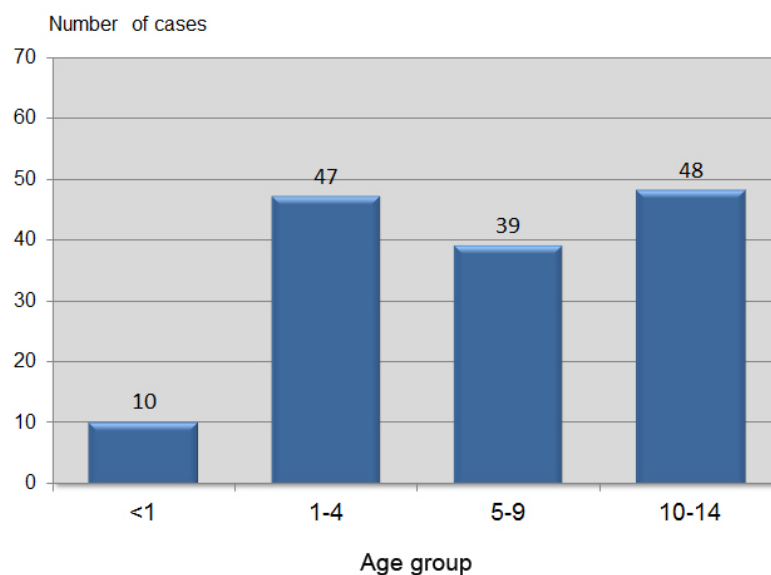
SITE	GROUP (ICCC-3 division)	MALE	FEMALE	TOTAL	
		NO.	NO.	NO.	%
I	Leukemias, myeloproliferative diseases, and myelodysplastic diseases	37	15	52	36.1
II	Lymphomas and reticuloendothelial neoplasms	13	9	22	15.3
III	CNS and miscellaneous intracranial and intraspinal neoplasms	9	4	13	9.0
IV	Neuroblastoma and other peripheral nervous cell tumors	6	4	10	6.9
V	Retinoblastoma	5	3	8	5.6
VI	Renal tumors	1	0	1	0.7
VII	Hepatic tumors	2	2	4	2.8
VIII	Malignant bone tumors	6	6	12	8.3
IX	Soft tissue and other extrasosseous sarcomas	6	3	9	6.3

SITE	GROUP(ICC-3 division)	MALE	FEMALE	TOTAL	
		NO.	NO.	NO.	%
X	Germ cell tumors, trophoblastic tumors, and neoplasms of gonads	1	5	6	4.2
XI	Other malignant epithelial neoplasms and malignant melanomas	3	4	7	4.9
XII	Other and unspecified malignant neoplasms	0	0	0	0.0
		89	55	144	100.0

The malignancy in childhood was 2.5% of all new cancer patients.

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

FIGURE 19: AGE DISTRIBUTION OF ALL MALIGNANCIES IN CHILDHOOD



Age; Mean = 6.7, Median = 6.5

COMMON CANCERS

ORAL CAVITY CANCER

ICD-10 C01-C06

FIGURE 17: DISTRIBUTION OF SUBSITES IN MALE AND FEMALE

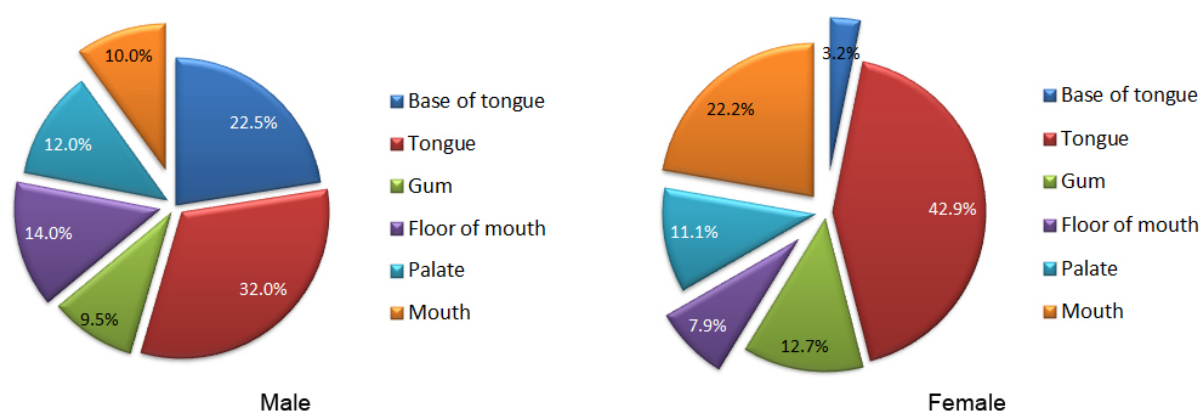


TABLE 13: STAGING

STAGE	MALE	FEMALE	TOTAL	%
Stage I	14	5	19	7.2%
Stage II	22	6	28	10.6%
Stage III	23	7	30	11.4%
Stage IV	134	35	169	64.3%
Not specified	7	10	17	6.5%
Total	200	63	263	100.0



ESOPHAGEAL CANCER

ICD-10 C15

FIGURE 18: DISTRIBUTION OF SUBSITES IN MALES AND FEMALES

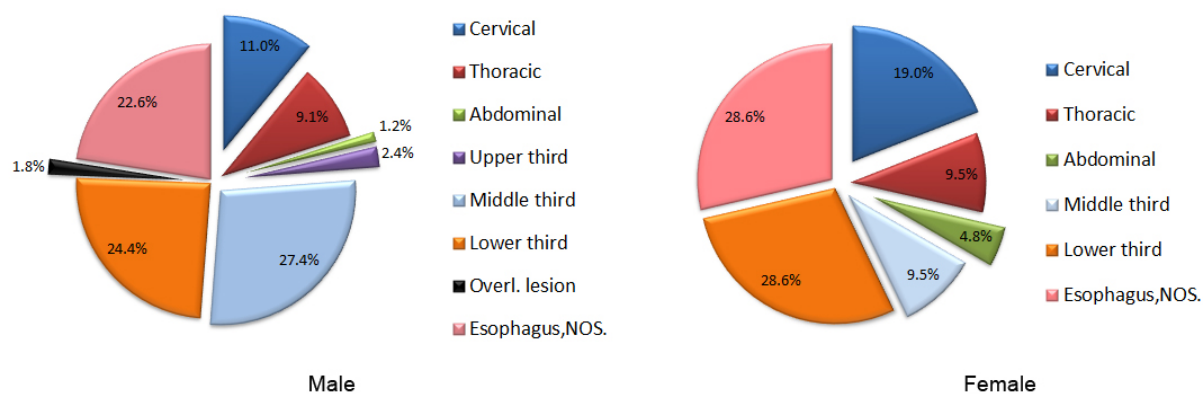


TABLE 14: STAGING

STAGE	MALE	FEMALE	TOTAL	%
Stage I	0	0	0	0.0%
Stage II	14	1	15	8.1%
Stage III	46	4	50	27.0%
Stage IV	44	8	52	28.1%
Not specified	60	8	68	36.8%
Total	164	21	185.0	100.0%

COLON AND RECTUM CANCER

ICD-10 C18-20

FIGURE 19: DISTRIBUTION OF SUBSITES IN MALES AND FEMALES

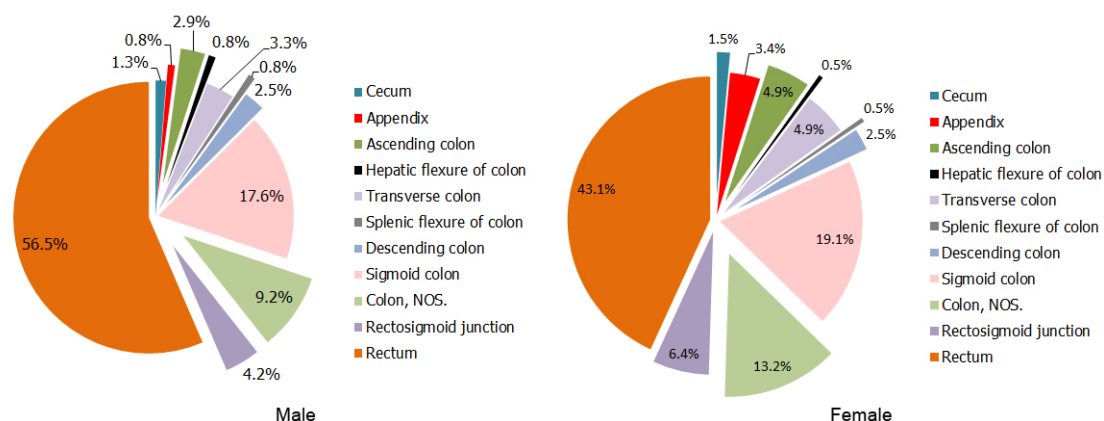
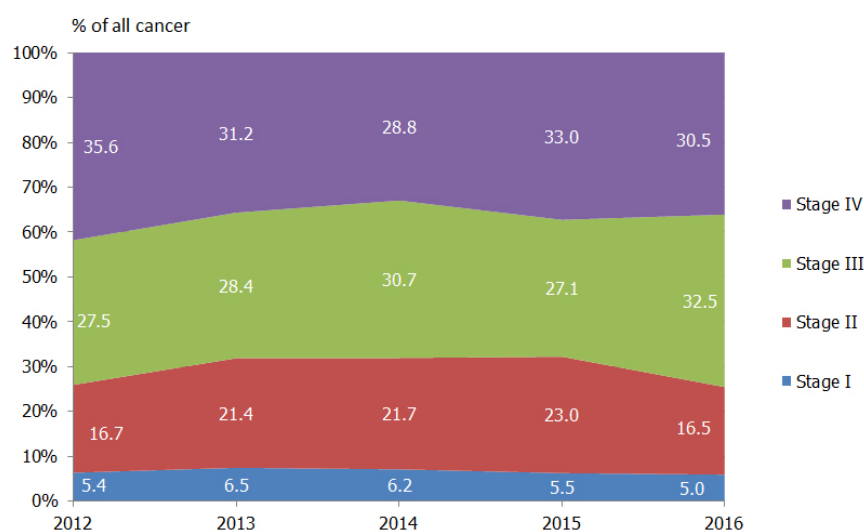


TABLE 15: STAGING

STAGE	MALE	FEMALE	TOTAL	%
Stage I	12	10	22	5.0%
Stage II	48	25	73	16.5%
Stage III	86	58	144	32.5%
Stage IV	62	73	135	30.5%
Not specified	31	38	69	15.6%
Total	239	204	443	100.0%

FIGURE 20: STAGING TRENDS: PERCENTAGE



LUNG CANCER

ICD-10 C34

FIGURE 21: DISTRIBUTION OF SUBSITES IN MALE AND FEMALE

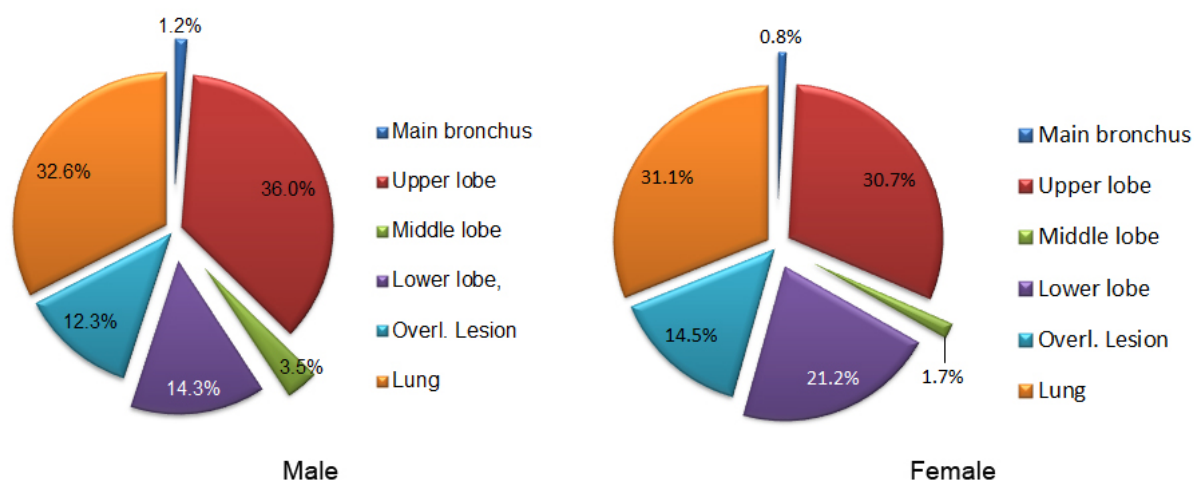


FIGURE 22: DISTRIBUTION OF THE RIGHT AND LEFT SIDES OF LUNG

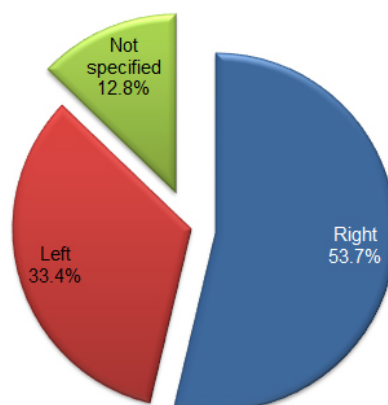


TABLE 16: STAGING

STAGE	MALE	FEMALE	TOTAL	%
Stage I	9	12	21	3.3%
Stage II	7	6	13	2.0%
Stage III	64	14	78	12.1%
Stage IV	277	195	472	73.1%
Not specified	48	14	62	9.6%
Total	405	241	646	100.0%

BREAST CANCER (EXCLUDING IN SITU)

ICD-10 C50

FIGURE 23: DISTRIBUTION OF SUBSITES IN FEMALE BREAST

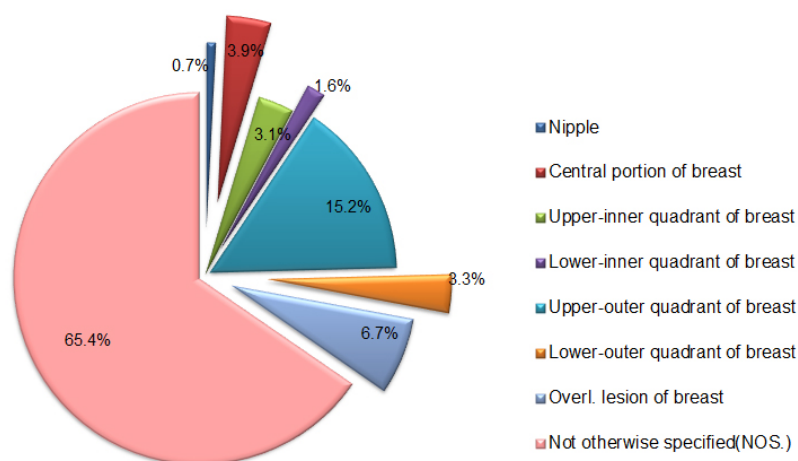
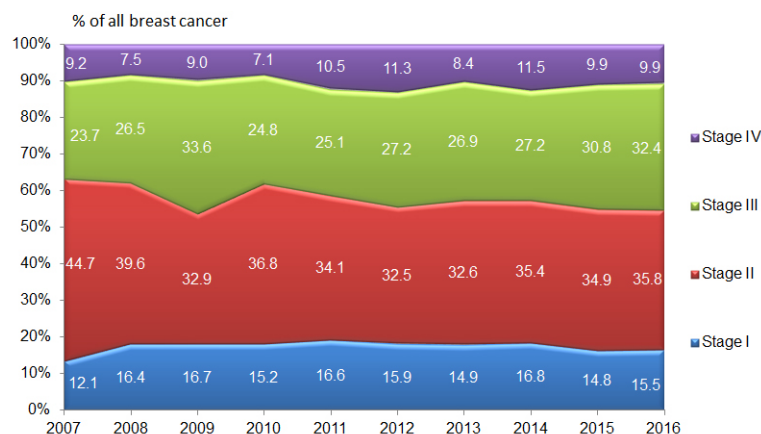


TABLE 17: STAGING

STAGE	MALE	FEMALE	TOTAL	%
Stage I	1	104	105	15.5%
Stage II	2	240	242	35.8%
Stage III	2	217	219	32.4%
Stage IV	0	67	67	9.9%
Not specified	0	43	43	6.4%
Total	5	671	676	100.0%

FIGURE 24: STAGING TRENDS OF FEMALE BREAST CANCER: PERCENTAGE



CERVICAL CANCER (EXCLUDING IN SITU)

ICD-10 C53

TABLE 18: STAGING

STAGE	NUMBER	%
Stage I	57	18.9%
Stage II	113	37.5%
Stage III	93	30.9%
Stage IV	32	10.6%
Not specified	6	2.0%
Total	301	100.0%

FIGURE 25: STAGING TRENDS OF CERVICAL CANCER: PERCENTAGE

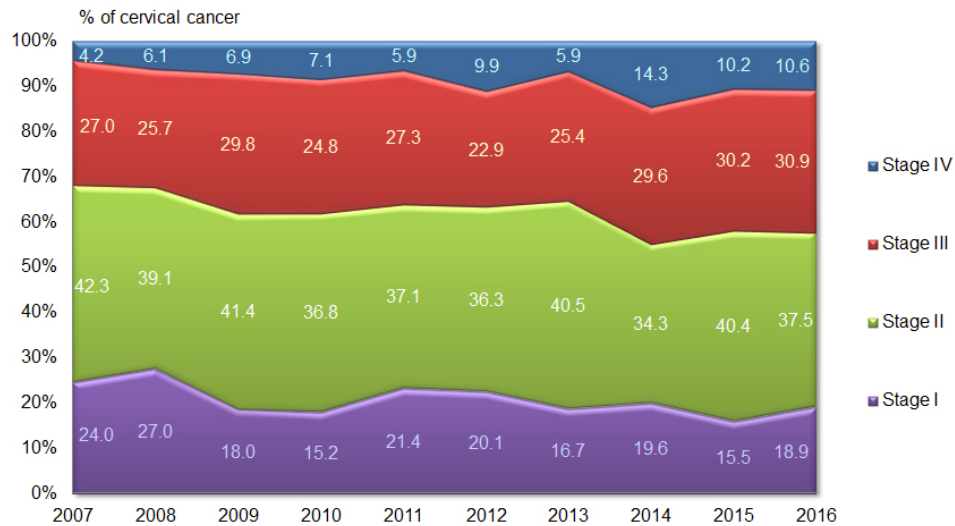


TABLE 19: SEX AND AGE DISTRIBUTION ACCORDING TO PRIMARY SITE

PRIMARY SITE (ICD-10)	GENDER	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Lip	All gender	8	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	3	1	2
(C00)	Male	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
	Female	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1	2
Tongue	All gender	138	0	0	0	0	1	1	1	2	9	12	16	25	13	18	7	14	13	6
(C01-C02)	Male	109	0	0	0	0	0	0	1	1	7	8	15	22	11	13	5	12	10	4
	Female	29	0	0	0	0	1	1	0	1	2	4	1	3	2	5	2	2	3	2
Mouth	All gender	125	0	0	0	0	1	1	0	2	3	8	17	17	18	14	18	15	6	5
(C03-C06)	Male	91	0	0	0	0	0	0	0	2	2	8	12	13	14	10	15	9	3	3
	Female	34	0	0	0	0	1	1	0	0	1	0	5	4	4	4	3	6	3	2
Salivary gland	All gender	40	0	0	1	2	3	0	1	2	3	3	6	3	6	4	3	1	1	1
(C07-C08)	Male	23	0	0	0	1	2	0	1	1	1	0	2	2	5	4	2	1	0	1
	Female	17	0	0	1	1	1	0	0	1	2	3	4	1	1	0	1	0	1	0
Tonsil	All gender	41	0	0	0	1	1	0	1	0	1	2	7	5	3	8	6	2	3	1
(C09)	Male	39	0	0	0	1	1	0	1	0	1	2	7	5	3	8	5	2	2	1
	Female	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0

PRIMARY SITE (ICD-10)	GENDER	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Oropharynx	All gender	32	0	0	0	0	0	0	0	1	0	2	5	7	3	5	4	3	2	0
(C10)	Male	32	0	0	0	0	0	0	0	1	0	2	5	7	3	5	4	3	2	0
	Female	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nasopharynx	All gender	100	0	0	0	2	2	0	4	13	13	9	17	13	13	5	2	4	3	0
(C11)	Male	70	0	0	0	2	1	0	3	9	10	5	9	9	11	5	2	2	2	0
	Female	30	0	0	0	0	1	0	1	4	3	4	8	4	2	0	0	2	1	0
Hypopharynx	All gender	79	0	0	0	0	0	0	0	0	2	11	14	12	10	10	7	4	6	3
(C12-C13)	Male	73	0	0	0	0	0	0	0	0	2	11	13	12	10	9	7	1	5	3
	Female	6	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	3	1	0
Pharynx, unspecified	All gender	9	0	0	0	0	0	0	0	0	0	0	1	1	3	0	3	0	0	1
(C14)	Male	5	0	0	0	0	0	0	0	0	0	0	1	1	1	0	2	0	0	0
	Female	4	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	1
Esophagus	All gender	185	0	0	0	0	0	0	0	2	6	10	17	27	42	25	23	20	10	3
(C15)	Male	164	0	0	0	0	0	0	0	2	6	10	17	24	37	22	20	17	7	2
	Female	21	0	0	0	0	0	0	0	0	0	0	0	3	5	3	3	3	3	1

PRIMARY SITE (ICD-10)	GENDER	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Stomach	All gender	54	0	0	0	0	0	1	0	3	2	2	5	8	9	9	4	5	3	3
(C16)	Male	30	0	0	0	0	0	1	0	3	0	1	4	5	4	5	3	2	1	1
	Female	24	0	0	0	0	0	0	0	0	2	1	1	3	5	4	1	3	2	2
Small intestine	All gender	10	0	0	0	0	0	0	0	0	1	0	2	0	1	1	1	2	1	1
(C17)	Male	3	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0
	Female	7	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	2	1	1
Colon	All gender	197	0	0	0	0	1	4	4	6	6	14	24	18	29	25	28	17	11	10
(C18)	Male	94	0	0	0	0	0	3	3	2	2	4	11	4	16	13	20	10	2	4
	Female	103	0	0	0	0	1	1	1	4	4	10	13	14	13	12	8	7	9	6
Rectum	All gender	246	0	0	0	0	0	0	6	10	13	17	28	29	32	38	26	31	11	5
(C19-C20)	Male	145	0	0	0	0	0	0	2	3	5	8	18	18	23	25	13	18	8	4
	Female	101	0	0	0	0	0	0	4	7	8	9	10	11	9	13	13	13	3	1
Anus	All gender	20	0	0	0	0	0	0	1	2	1	2	3	3	1	2	2	0	1	2
(C21)	Male	11	0	0	0	0	0	0	1	2	0	2	1	1	0	0	2	0	0	2
	Female	9	0	0	0	0	0	0	0	0	1	0	2	2	1	2	0	0	1	0

PRIMARY SITE (ICD-10)	GENDER	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Liver	All gender	492	3	1	0	1	0	3	2	16	29	39	70	91	66	62	46	37	19	7
(C22)	Male	338	2	0	0	1	0	3	2	13	25	29	58	65	42	37	31	17	9	4
	Female	154	1	1	0	0	0	0	0	3	4	10	12	26	24	25	15	20	10	3
Gallbladder etc.	All gender	71	0	0	0	0	0	0	1	0	2	5	7	11	5	15	8	10	4	3
(C23-C24)	Male	42	0	0	0	0	0	0	1	0	2	2	6	7	3	6	6	6	1	2
	Female	29	0	0	0	0	0	0	0	0	0	3	1	4	2	9	2	4	3	1
Pancreas	All gender	65	0	0	0	0	1	0	3	0	4	3	9	6	8	6	6	9	7	3
(C25)	Male	34	0	0	0	0	0	0	2	0	3	2	5	3	4	4	1	6	3	1
	Female	31	0	0	0	0	1	0	1	0	1	1	4	3	4	2	5	3	4	2
Nose, sinuses etc.	All gender	31	0	1	0	1	1	1	1	4	2	4	0	3	1	2	4	0	5	1
(C30-C31)	Male	21	0	1	0	1	1	1	0	2	1	1	0	3	1	2	4	0	2	1
	Female	10	0	0	0	0	0	0	1	2	1	3	0	0	0	0	0	0	3	0
Larynx	All gender	107	0	0	0	0	0	0	0	1	0	8	9	21	22	13	16	13	3	1
(C32)	Male	103	0	0	0	0	0	0	0	1	0	8	9	20	20	13	15	13	3	1
	Female	4	0	0	0	0	0	0	0	0	0	0	0	1	2	0	1	0	0	0

PRIMARY SITE (ICD-10)	GENDER	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	646	0	0	0	0	0	1	6	17	27	39	79	81	96	89	82	65	44	20
(C33-C34)	Male	405	0	0	0	0	0	1	0	8	12	18	52	52	57	63	57	45	30	10
	Female	241	0	0	0	0	0	0	6	9	15	21	27	29	39	26	25	20	14	10
Other thoracic organs	All gender	14	0	0	0	4	2	2	1	1	0	1	2	1	0	0	0	0	0	0
(C37-C38)	Male	13	0	0	0	4	2	2	1	0	0	1	2	1	0	0	0	0	0	0
	Female	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Bone	All gender	28	0	0	11	4	1	4	1	0	0	1	0	3	0	1	2	0	0	0
(C40-C41)	Male	15	0	0	5	2	1	1	1	0	0	1	0	1	0	1	2	0	0	0
	Female	13	0	0	6	2	0	3	0	0	0	0	0	2	0	0	0	0	0	0
Melanoma of skin	All gender	26	0	0	1	0	0	0	0	1	1	4	2	3	1	4	5	1	2	1
(C43)	Male	10	0	0	1	0	0	0	0	0	1	0	1	1	0	2	2	0	1	1
	Female	16	0	0	0	0	0	0	0	1	0	4	1	2	1	2	3	1	1	0
Other skin	All gender	150	1	1	2	0	2	1	3	6	2	8	16	15	18	13	14	18	20	10
(C44)	Male	78	1	1	0	0	2	1	2	4	0	4	8	4	10	6	11	10	11	3
	Female	72	0	0	2	0	0	0	1	2	2	4	8	11	8	7	3	8	9	7

PRIMARY SITE (ICD-10)	GENDER	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Kaposisarcoma	All gender	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
(C46)	Male	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Female	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Connective and soft tissues	All gender	90	5	2	2	3	3	2	4	6	6	7	9	10	7	8	2	7	4	3
(C47, C49)	Male	44	3	2	1	1	1	1	3	3	3	1	4	6	4	4	1	3	2	1
	Female	46	2	0	1	2	2	1	1	3	3	6	5	4	3	4	1	4	2	2
Breast	All gender	676	0	0	0	0	1	6	18	59	86	136	125	96	61	42	17	14	11	4
(C50)	Male	5	0	0	0	0	0	1	0	0	1	0	1	0	0	1	0	0	1	0
	Female	671	0	0	0	0	1	5	18	59	85	136	124	96	61	41	17	14	10	4
Vulva	All gender	19	0	0	0	0	0	0	0	1	3	2	2	2	2	3	1	2	0	1
(C51)	Male	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Female	19	0	0	0	0	0	0	0	1	3	2	2	2	2	3	1	2	0	1
Vagina	All gender	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
(C52)	Male	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Female	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0

PRIMARY SITE (ICD-10)	GENDER	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Cervix uteri	All gender	301	0	0	0	0	0	4	18	24	37	39	41	50	34	25	16	8	4	1
(C53)	Male	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Female	301	0	0	0	0	0	4	18	24	37	39	41	50	34	25	16	8	4	1
Corpus uteri	All gender	183	0	0	0	0	0	4	3	2	18	12	34	33	38	15	14	6	3	1
(C54)	Male	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Female	183	0	0	0	0	0	4	3	2	18	12	34	33	38	15	14	6	3	1
Uterus unspecified	All gender	35	0	0	0	0	0	0	0	0	1	3	3	6	7	6	6	3	0	0
(C55)	Male	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Female	35	0	0	0	0	0	0	0	0	1	3	3	6	7	6	6	3	0	0
Ovary	All gender	185	0	1	4	4	5	7	7	6	23	18	21	26	22	15	6	10	5	5
(C56)	Male	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Female	185	0	1	4	4	5	7	7	6	23	18	21	26	22	15	6	10	5	5
Other female genital	All gender	4	0	0	0	0	0	0	0	0	0	0	1	2	0	0	1	0	0	0
(C57)	Male	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Female	4	0	0	0	0	0	0	0	0	0	0	1	2	0	0	1	0	0	0

[illegible]

PRIMARY SITE (ICD-10)	GENDER	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Kidney	All gender	53	1	0	0	0	1	0	0	1	3	4	6	9	5	8	9	4	1	1
(C64)	Male	38	1	0	0	0	1	0	0	0	2	2	3	8	5	4	7	3	1	1
	Female	15	0	0	0	0	0	0	0	1	1	2	3	1	0	4	2	1	0	0
Renal pelvis	All gender	3	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0
(C65)	Male	2	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
	Female	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Ureter	All gender	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
(C66)	Male	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Female	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bladder	All gender	106	0	0	0	0	0	0	1	0	1	5	5	18	15	18	11	13	13	6
(C67)	Male	94	0	0	0	0	0	0	1	0	1	5	3	14	13	16	11	13	11	6
	Female	12	0	0	0	0	0	0	0	0	0	0	2	4	2	2	0	0	2	0
Other and unspecified urinary organs	All gender	3	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0
(C68)	Male	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Female	2	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0

PRIMARY SITE (ICD-10)	GENDER	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Eye	All gender	17	8	0	0	0	1	0	1	0	1	1	1	0	0	1	1	1	1	0
(C69)	Male	10	5	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	0
	Female	7	3	0	0	0	1	0	1	0	1	0	0	0	0	1	0	0	0	0
Brain, nervous system	All gender	89	2	7	3	4	3	3	4	7	6	10	8	10	9	2	5	2	1	0
(C70-C72)	Male	62	1	5	3	3	2	2	4	2	4	8	6	7	5	2	3	1	1	0
	Female	27	1	2	0	1	1	1	0	5	2	2	2	3	4	0	2	1	0	0
Thyroid	All gender	306	0	0	1	7	24	27	29	33	27	31	41	23	18	16	11	9	8	1
(C73)	Male	51	0	0	0	1	1	4	6	5	4	3	6	4	4	4	4	3	2	0
	Female	255	0	0	1	6	23	23	23	28	23	28	35	19	14	12	7	6	6	1
Adrenal gland	All gender	14	10	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0
(C74)	Male	9	6	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0
	Female	5	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Other endocrine	All gender	5	0	0	0	0	1	0	0	0	0	0	2	1	0	0	1	0	0	0
(C75)	Male	3	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0
	Female	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0

PRIMARY SITE (ICD-10)	GENDER	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Hodgkin lymphoma	All gender	28	0	4	3	4	4	4	0	3	1	1	2	1	1	0	0	0	0	0
(C81)	Male	19	0	2	3	3	3	2	0	2	1	1	2	0	0	0	0	0	0	0
	Female	9	0	2	0	1	1	2	0	1	0	0	0	1	1	0	0	0	0	0
Non-Hodgkin lymphoma	All gender	253	2	4	9	4	5	9	8	11	11	20	23	28	28	27	18	22	14	10
(C82-C85, C96)	Male	144	1	2	5	2	4	7	6	8	6	10	11	18	16	15	7	12	7	7
	Female	109	1	2	4	2	1	2	2	3	5	10	12	10	12	12	11	10	7	3
Multiple myeloma	All gender	46	0	0	0	0	0	0	1	1	2	2	7	11	10	5	3	1	2	1
(C90)	Male	27	0	0	0	0	0	0	0	1	1	1	5	6	6	2	2	1	1	1
	Female	19	0	0	0	0	0	0	1	0	1	1	2	5	4	3	1	0	1	0
Lymphoid leukemia	All gender	59	16	15	4	3	0	0	1	4	3	3	1	1	2	0	4	1	0	1
(C91)	Male	38	9	10	3	2	0	0	1	1	2	2	0	1	1	0	4	1	0	1
	Female	21	7	5	1	1	0	0	0	3	1	1	1	0	1	0	0	0	0	0
Myeloid leukemia	All gender	73	7	2	6	3	2	2	2	7	5	1	3	9	6	7	4	3	3	1
(C92-C94)	Male	45	7	2	4	2	0	0	1	4	3	1	1	4	4	4	3	2	2	1
	Female	28	0	0	2	1	2	2	1	3	2	0	2	5	2	3	1	1	1	0

PRIMARY SITE (ICD-10)	GENDER	Total	<5	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Leukemia unspecified	All gender	9	2	0	0	0	1	0	0	0	0	0	0	1	0	0	1	3	1	0
(C95)	Male	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	Female	5	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	2	0	0
Other & unspecified	All gender	131	0	0	1	1	3	3	3	6	6	13	20	11	19	11	19	3	8	4
(C26, C39, C42, C48, C76, C77, C80)	Male	75	0	0	0	1	1	2	3	3	3	7	7	7	12	6	12	2	7	2
	Female	56	0	0	1	0	2	1	0	3	3	6	13	4	7	5	7	1	1	2
Myeloproliferative disease	All gender	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
(MPD)	Male	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
	Female	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
All sites	All gender	5,806	58	39	48	49	74	95	142	266	372	520	716	766	712	612	497	420	277	140
	Male	2,817	39	26	25	28	28	37	49	87	114	177	311	370	372	345	315	251	161	79
	Female	2,989	19	13	23	21	46	58	93	179	258	343	405	396	340	267	182	169	116	61



TABLE 20: HISTOLOGICAL TYPES

PRIMARY SITE (ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
Lip			2	6	8
(C00)	8051	Verrucous carcinoma, NOS	1	0	1
	8070	Squamous cell carcinoma, NOS	1	6	1
Tongue			109	29	138
(C01-C02)	8000	Neoplasm, malignant	1	0	1
	8070	Squamous cell carcinoma, NOS	107	29	136
	8430	Mucoepidermoid carcinoma	1	0	1
Mouth			91	34	125
(C03-C06)	8000	Neoplasm, malignant	1	1	2
	8051	Verrucous carcinoma, NOS	0	1	1
	8070	Squamous cell carcinoma, NOS	86	26	112
	8071	Squamous cell carcinoma, keratinizing, NOS	0	1	1
	8072	Squamous cell carc.large cell,nonkeratinizing, NOS	3	0	3
	8140	Adenocarcinoma, NOS	0	1	1
	8200	Adenoid cystic carcinoma	0	3	3
	8430	Mucoepidermoid carcinoma	0	1	1
	8850	Liposarcoma, NOS	1	0	1
Salivary gland			23	17	40
(C07-C08)	8000	Neoplasm, malignant	2	0	2
	8010	Carcinoma, NOS	2	1	3
	8020	Carcinoma, undifferentiated, NOS	0	1	1
	8070	Squamous cell carcinoma, NOS	1	1	2
	8082	Lymphoepithelial carcinoma	0	1	1
	8140	Adenocarcinoma, NOS	4	2	6
	8147	Basal cell adenocarcinoma	0	1	1
	8200	Adenoid cystic carcinoma	4	2	6
	8430	Mucoepidermoid carcinoma	8	6	14
	8525	Polymorphous low grade adenocarcinoma	0	1	1



PRIMARY SITE (ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
	8550	Acinar cell carcinoma	0	1	1
	8560	Adenosquamous carcinoma	1	0	1
	8940	Mixed tumor, malignant, NOS	1	0	1
Tonsil			39	2	41
(C09)	8000	Clinical, no microscopic confirmation	1	0	1
	8000	Neoplasm, malignant	1	0	1
	8070	Squamous cell carcinoma, NOS	36	2	38
	8890	Leiomyosarcoma, NOS	1	0	1
Oropharynx			32	0	32
(C10)	8070	Squamous cell carcinoma, NOS	32	0	32
Nasopharynx			70	30	100
(C11)	8000	Neoplasm, malignant	3	0	3
	8010	Carcinoma, NOS	1	1	2
	8020	Carcinoma, undifferentiated, NOS	18	10	28
	8070	Squamous cell carcinoma, NOS	9	7	16
	8071	Squamous cell carcinoma, keratinizing, NOS	2	0	2
	8072	Squamous cell carc.large cell,nonkeratinizing, NOS	36	11	47
	8200	Adenoid cystic carcinoma	1	0	1
	8720	Malignant melanoma, NOS	0	1	1
Hypopharynx			73	6	79
(C12-C13)	8070	Squamous cell carcinoma, NOS	73	5	78
	8140	Adenocarcinoma, NOS	0	1	1
Pharynx, unspecified			5	4	9
(C14)	8070	Squamous cell carcinoma, NOS	5	4	9
Esophagus			164	21	185
(C15)	8000	Clinical, no microscopic confirmation	7	1	8
	8070	Squamous cell carcinoma, NOS	149	20	169
	8140	Adenocarcinoma, NOS	6	0	6



PRIMARY SITE (ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
	8560	Adenosquamous carcinoma	2	0	2
Stomach			30	24	54
(C16)	8000	Clinical, no microscopic confirmation	1	2	3
	8020	Carcinoma, undifferentiated, NOS	1	0	1
	8070	Squamous cell carcinoma, NOS	1	0	1
	8140	Adenocarcinoma, NOS	24	19	43
	8246	Neuroendocrine carcinoma, NOS	1	0	1
	8481	Mucin-producing adenocarcinoma	1	0	1
	8490	Signet ring cell carcinoma	1	2	3
	8574	Adenocarcinoma, neuroendocrine differentiation	0	1	1
Small intestine			3	7	10
(C17)	8000	Clinical, no microscopic confirmation	0	1	1
	8140	Adenocarcinoma, NOS	3	5	8
	8246	Neuroendocrine carcinoma, NOS	0	1	1
Colon			94	103	197
(C18)	8000	clinical, no microscopic confirmation	3	6	9
	8010	Carcinoma, NOS	2	4	6
	8041	Small cell carcinoma, NOS	1	0	1
	8140	Adenocarcinoma, NOS	83	87	170
	8244	Combined carcinoid and adenocarcinoma	1	0	1
	8480	Mucinous adenocarcinoma	3	5	8
	8481	Mucin-producing adenocarcinoma	0	1	1
	8490	Signet ring cell carcinoma	1	0	1
Rectum			145	101	246
(C19-C20)	8000	Clinical, no microscopic confirmation	3	3	6
	8010	Carcinoma, NOS	2	3	5
	8140	Adenocarcinoma, NOS	133	92	225
	8190	Trabecular adenocarcinoma	1	0	1
	8240	Carcinoid tumor, NOS	1	1	2
	8246	Neuroendocrine carcinoma, NOS	1	1	2
	8260	Papillary adenocarcinoma	1	0	1



PRIMARY SITE					
(ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
	8481	Mucin-producing adenocarcinoma	2	0	2
	8490	Signet ring cell carcinoma	1	1	2
Anus			11	9	20
(C21)	8000	Neoplasm, malignant	0	1	1
	8070	Squamous cell carcinoma, NOS	5	2	7
	8140	Adenocarcinoma, NOS	6	6	12
Liver			338	154	492
(C22)	8000	Clinical, no microscopic confirmation	273	122	395
	8000	Neoplasm, malignant	3	0	3
	8010	Carcinoma, NOS	3	1	4
	8140	Adenocarcinoma, NOS	13	13	26
	8160	Cholangiocarcinoma	6	3	9
	8170	Hepatocellular carcinoma, NOS	37	12	49
	8173	Hepatocellular carcinoma, spindle cell variant	1	0	1
	8180	Combined hepatocellular carcinoma/cholangiocarcinoma	0	2	2
	8970	Hepatoblastoma	2	1	3
Gallbladder etc.			42	29	71
(C23-C24)	8000	Clinical, no microscopic confirmation	13	8	21
	8010	Carcinoma, NOS	1	0	1
	8140	Adenocarcinoma, NOS	26	20	46
	8160	Cholangiocarcinoma	2	0	2
	8246	Neuroendocrine carcinoma, NOS	0	1	1
Pancreas			34	31	65
(C25)	8000	Clinical, no microscopic confirmation	10	6	16
	8000	Neoplasm, malignant	2	2	4
	8010	Carcinoma, NOS	1	0	1
	8041	Small cell carcinoma, NOS	1	0	1
	8140	Adenocarcinoma, NOS	19	20	39
	8240	Carcinoid tumor, NOS	0	1	1
	8246	Neuroendocrine carcinoma, NOS	0	2	2



PRIMARY SITE (ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
	8480	Mucinous adenocarcinoma	1	0	1
Nose, sinuses			21	10	31
(C30-C31)	8000	Neoplasm, malignant	1	0	1
	8010	Carcinoma, NOS	1	0	1
	8045	Combined small cell carcinoma	0	1	1
	8070	Squamous cell carcinoma, NOS	11	4	15
	8072	Squamous cell carc.large cell,nonkeratinizing, NOS	1	0	1
	8140	Adenocarcinoma, NOS	0	2	2
	8200	Adenoid cystic carcinoma	3	2	5
	8720	Malignant melanoma, NOS	1	0	1
	8830	Malignant fibrous histiocytoma	1	0	1
	8900	Rhabdomyosarcoma, NOS	0	1	1
	9260	Ewing sarcoma	2	0	2
Larynx			103	4	107
(C32)	8010	Carcinoma, NOS	2	0	2
	8041	Small cell carcinoma, NOS	1	0	1
	8070	Squamous cell carcinoma, NOS	99	4	103
	8083	Basaloid squamous cell carcinoma	1	0	1
Trachea, bronchus & lung	8000	Clinical, no microscopic confirmation	18	15	33
(C33-C34)	8000	Neoplasm, malignant	7	1	8
	8004	Malignant tumor, spindle cell type	0	1	1
	8010	Carcinoma, NOS	7	1	8
	8012	Large cell carcinoma, NOS	4	1	5
	8020	Carcinoma, undifferentiated, NOS	3	0	3
	8021	Carcinoma, anaplastic, NOS	1	0	1
	8022	Pleomorphic carcinoma	2	0	2
	8041	Small cell carcinoma, NOS	33	6	39
	8046	Non-small cell carcinoma	19	6	25
	8070	Squamous cell carcinoma, NOS	75	10	85
	8082	Lymphoepithelial carcinoma	1	0	1
	8140	Adenocarcinoma, NOS	228	188	416



PRIMARY SITE (ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
	8240	Carcinoid tumor, NOS	0	1	1
	8246	Neuroendocrine carcinoma, NOS	4	0	4
	8250	Bronchiolo-alveolar adenocarcinoma, NOS	0	4	4
	8252	Bronchiolo-alveolar carcinoma, non- mucinous	0	1	1
	8260	Papillary adenocarcinoma	1	1	2
	8430	Mucoepidermoid carcinoma	0	2	2
	8480	Mucinous adenocarcinoma	1	2	3
	8481	Mucin-producing adenocarcinoma	0	1	1
	8830	Malignant fibrous histiocytoma	1	0	1
Other thoracic organs (C37-C38)			13	1	14
	8000	Clinical, no microscopic confirmation	4	0	4
	8000	Neoplasm, malignant	1	0	1
	8010	Carcinoma, NOS	1	0	1
	8082	Lymphoepithelial carcinoma	0	1	1
	8140	Adenocarcinoma, NOS	1	0	1
	9050	Mesothelioma, malignant	1	0	1
	9061	Seminoma, NOS	1	0	1
	9064	Germinoma	1	0	1
	9071	Endodermal sinus tumor (Yolk sac tumor)	2	0	2
	9085	Mixed germ cell tumor	1	0	1
Bone (C40-C41)			15	13	28
	8000	Clinical, no microscopic confirmation	1	1	2
	8800	Sarcoma, NOS	1	0	1
	9180	Osteosarcoma, NOS	8	7	15
	9186	Central osteosarcoma	0	1	1
	9220	Chondrosarcoma, NOS	3	1	4
	9260	Ewing sarcoma	2	1	3
	9370	Chordoma, NOS	0	2	2
Melanoma of skin (C43)			10	16	26
	8720	Malignant melanoma, NOS	9	14	23
	8721	Nodular melanoma	0	1	1



PRIMARY SITE					
(ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
	8770	Mixed epithelioid and spindle cell melanoma	0	1	1
	8772	Spindle cell melanoma, NOS	1	0	1
Other skin			78	72	150
(C44)	8000	Clinical, no microscopic confirmation	1	0	1
	8010	Carcinoma, NOS	0	1	1
	8070	Squamous cell carcinoma, NOS	39	29	68
	8090	Basal cell carcinoma, NOS	26	30	56
	8094	Basosquamous carcinoma	2	0	2
	8102	Trichilemmocarcinoma	0	1	1
	8200	Adenoid cystic carcinoma	1	0	1
	8247	Merkel cell carcinoma	0	1	1
	8310	Clear cell adenocarcinoma, NOS	0	1	1
	8410	Sebaceous adenocarcinoma	1	4	5
	8832	Dermatofibrosarcoma, NOS	7	5	12
	9120	Hemangiosarcoma	1	0	1
Kaposi sarcoma			1	0	1
(C46)	9140	Kaposi sarcoma	1	0	1
Connective and soft tissues			44	46	90
(C47, C49)	8000	Clinical, no microscopic confirmation	6	3	9
	8004	Malignant tumor, spindle cell type	1	0	1
	8032	Spindle cell carcinoma, NOS	0	1	1
	8430	Mucoepidermoid carcinoma	0	1	1
	8800	Sarcoma, NOS	2	1	3
	8801	Spindle cell sarcoma	5	9	14
	8802	Pleomorphic sarcoma	2	3	5
	8804	Epithelioid sarcoma	1	0	1
	8810	Fibrosarcoma, NOS	1	1	2
	8811	Fibromyxosarcoma	1	0	1
	8814	Infantile fibrosarcoma	0	2	2
	8830	Malignant fibrous histiocytoma	4	5	9
	8850	Liposarcoma, NOS	1	0	1
	8851	Liposarcoma, well differentiated	1	2	3



PRIMARY SITE (ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
	8852	Myxoid liposarcoma	3	4	7
	8854	Pleomorphic liposarcoma	1	0	1
	8855	Mixed liposarcoma	1	1	2
	8857	Fibroblastic liposarcoma	1	0	1
	8858	Dedifferentiated liposarcoma	1	0	1
	8890	Leiomyosarcoma, NOS	0	3	3
	8900	Rhabdomyosarcoma, NOS	0	1	1
	8901	Pleomorphic rhabdomyosarcoma, adult type	1	0	1
	8912	Spindle cell rhabdomyosarcoma	0	1	1
	8920	Alveolar rhabdomyosarcoma	3	2	5
	9040	Synovial sarcoma, NOS	5	1	6
	9071	Endodermal sinus tumor (Yolk sac tumor)	1	0	1
	9080	Immature teratoma, malignant	1	0	1
	9120	Hemangiosarcoma	0	2	2
	9260	Ewing sarcoma	0	3	3
		Malignant peripheral nerve sheath tumor			
	9540	sarcomatosis	1	0	1
Breast			5	671	676
(C50)	8000	Clinical, no microscopic confirmation	0	36	36
	8010	Carcinoma, NOS	0	5	5
	8140	Adenocarcinoma, NOS	0	15	15
	8211	Tubular adenocarcinoma	0	1	1
	8246	Neuroendocrine carcinoma, NOS	0	1	1
	8343	Papillary carcinoma, encapsulated	0	1	1
	8480	Mucinous adenocarcinoma	0	18	18
	8500	Infiltrating duct carcinoma, NOS	5	551	556
	8503	Intraductal papillary adenocarcinoma with invasion	0	1	1
	8504	Intracystic carcinoma, NOS	0	1	1
	8520	Lobular carcinoma, NOS	0	28	28
	8522	Infiltrating duct and lobular carcinoma	0	4	4
	8523	Infiltrating duct mixed with other carcinoma	0	3	3
	8540	Paget disease, mammary	0	2	2
	8574	Adenocarcinoma, neuroendocrine differentiation	0	1	1
	8575	Metaplastic carcinoma, NOS	0	2	2



PRIMARY SITE (ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
	9020	Phyllodes tumor, malignant	0	1	1
Vulva			0	19	19
(C51)	8000	Neoplasm, malignant	0	1	1
	8070	Squamous cell carcinoma, NOS	0	13	13
	8072	Squamous cell carc.large cell,nonkeratinizing, NOS	0	1	1
	8542	Paget disease, extramammary (ex. Paget dis.of bone)	0	3	3
	8720	Malignant melanoma, NOS	0	1	1
Vagina			0	2	2
(C52)	8070	Squamous cell carcinoma, NOS	0	1	1
	8140	Adenocarcinoma, NOS	0	1	1
Cervix uteri			0	301	301
(C53)	8000	Clinical, no microscopic confirmation	0	3	3
	8010	Carcinoma, NOS	0	6	6
	8041	Small cell carcinoma, NOS	0	5	5
	8052	Papillary squamous cell carcinoma	0	2	2
	8070	Squamous cell carcinoma, NOS	0	165	165
	8071	Squamous cell carcinoma, keratinizing, NOS	0	6	6
	8072	Squamous cell carc.large cell,nonkeratinizing, NOS	0	17	17
	8076	Squamous cell carcinoma, microinvasive	0	10	10
	8140	Adenocarcinoma, NOS	0	56	56
	8244	Combined carcinoid and adenocarcinoma	0	1	1
	8246	Neuroendocrine carcinoma, NOS	0	8	8
	8260	Papillary adenocarcinoma	0	1	1
	8310	Clear cell adenocarcinoma, NOS	0	1	1
	8380	Endometrioid adenocarcinoma, NOS	0	5	5
	8384	Adenocarcinoma, endocervical type	0	1	1
	8480	Mucinous adenocarcinoma	0	3	3
	8560	Adenosquamous carcinoma	0	11	11
Corpus uteri			0	183	183
(C54)	8000	Clinical, no microscopic confirmation	0	1	1



PRIMARY SITE (ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
	8010	Carcinoma, NOS	0	1	1
	8140	Adenocarcinoma, NOS	0	3	3
	8310	Clear cell adenocarcinoma, NOS	0	2	2
	8323	Mixed cell adenocarcinoma	0	7	7
	8380	Endometrioid adenocarcinoma, NOS	0	153	153
	8441	Serous cystadenocarcinoma, NOS	0	9	9
	8480	Mucinous adenocarcinoma	0	1	1
	8890	Leiomyosarcoma, NOS	0	1	1
	8891	Epithelioid leiomyosarcoma	0	2	2
	8931	Endometrial stromal sarcoma, low grade	0	3	3

Uterus

unspecified **0 35 35**

(C55)	8805	Undifferentiated sarcoma	0	2	2
	8890	Leiomyosarcoma, NOS	0	8	8
	8891	Epithelioid leiomyosarcoma	0	1	1
	8980	Carcinosarcoma, NOS	0	24	24

Ovary			0	185	185
(C56)	8000	Clinical, no microscopic confirmation	0	8	8
	8010	Carcinoma, NOS	0	2	2
	8020	Carcinoma, undifferentiated, NOS	0	1	1
	8070	Squamous cell carcinoma, NOS	0	2	2
	8140	Adenocarcinoma, NOS	0	33	33
	8310	Clear cell adenocarcinoma, NOS	0	19	19
	8323	Mixed cell adenocarcinoma	0	4	4
	8380	Endometrioid adenocarcinoma, NOS	0	22	22
	8440	Cystadenocarcinoma, NOS	0	1	1
	8441	Serous cystadenocarcinoma, NOS	0	42	42
	8460	Papillary serous cystadenocarcinoma	0	1	1
	8470	Mucinous cystadenocarcinoma, NOS	0	2	2
	8480	Mucinous adenocarcinoma	0	27	27
	8620	Granulosa cell tumor, malignant	0	2	2
	8980	Carcinosarcoma, NOS	0	2	2
	9060	Dysgerminoma	0	3	3



PRIMARY SITE					
(ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
	9071	Endodermal sinus tumor (Yolk sac tumor)	0	5	5
	9080	Immature teratoma, malignant	0	5	5
	9085	Mixed germ cell tumor	0	3	3
	9560	Neurilemoma, malignant	0	1	1
Other female			0	4	4
genital	8140	Adenocarcinoma, NOS	0	1	1
(C57)	8380	Endometrioid adenocarcinoma, NOS	0	1	1
	8441	Serous cystadenocarcinoma, NOS	0	2	2
Placenta			0	5	5
(C58)	9100	Choriocarcinoma, NOS	0	4	4
	9105	Trophoblastic tumor, epithelioid	0	1	1
Penis			20	0	20
(C60)	8000	Clinical, no microscopic confirmation	1	0	1
	8010	Carcinoma, NOS	1	0	1
	8070	Squamous cell carcinoma, NOS	17	0	17
	8090	Basal cell carcinoma, NOS	1	0	1
Prostate			150	0	150
(C61)	8000	Clinical, no microscopic confirmation	16	0	16
	8140	Adenocarcinoma, NOS	133	0	133
	8910	Embryonal rhabdomyosarcoma, NOS	1	0	1
Testis			18	1	19
(C62)	8000	Clinical, no microscopic confirmation	3	0	3
	8020	Carcinoma, undifferentiated, NOS	1	0	1
Swyer	9061	Seminoma, NOS	6	1	7
syndrome in	9064	Germinoma	1	0	1
female	9071	Endodermal sinus tumor (Yolk sac tumor)	1	0	1
	9085	Mixed germ cell tumor	6	0	6



PRIMARY SITE					
(ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
Other male			4	0	4
genital (C63)	8000	Clinical, no microscopic confirmation	1	0	1
	8070	Squamous cell carcinoma, NOS	1	0	1
	8542	Paget disease, extramammary (ex. Paget dis.of bone)	1	0	1
	8850	Liposarcoma, NOS	1	0	1
Kidney			38	15	53
(C64)	8000	Clinical, no microscopic confirmation	11	6	17
	8070	Squamous cell carcinoma, NOS	1	0	1
	8120	Transitional cell carcinoma, NOS	2	1	3
	8140	Adenocarcinoma, NOS	0	1	1
	8240	Carcinoid tumor, NOS	0	1	1
	8260	Papillary adenocarcinoma	6	1	7
	8310	Clear cell adenocarcinoma, NOS	1	0	1
	8312	Renal cell carcinoma, NOS	15	2	17
	8317	Renal cell carcinoma, chromophobe type	0	2	2
	8318	Renal cell carcinoma, sarcomatoid	0	1	1
	8960	Nephroblastoma, NOS	1	0	1
	9260	Ewing sarcoma	1	0	1
Renal pelvis			2	1	3
(C65)	8000	Clinical, no microscopic confirmation	1	0	1
	8120	Transitional cell carcinoma, NOS	1	1	2
Ureter			1	0	1
(C66)	8070	Squamous cell carcinoma, NOS	1	0	1
Bladder			94	12	106
(C67)	8000	Clinical, no microscopic confirmation	9	0	9
	8033	Pseudosarcomatous carcinoma	1	0	1
	8070	Squamous cell carcinoma, NOS	3	0	3
	8120	Transitional cell carcinoma, NOS	50	8	58
	8130	Papillary transitional cell carcinoma	29	3	32
	8140	Adenocarcinoma, NOS	2	1	3



PRIMARY SITE (ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
Urinary system,					
NOS			1	2	3
(C68)	8070	Squamous cell carcinoma, NOS	0	1	1
	8120	Transitional cell carcinoma, NOS	0	1	1
	8140	Adenocarcinoma, NOS	1	0	1
Eye					
(C69)			10	17	27
(C69)	8000	Clinical, no microscopic confirmation	1	2	3
	8013	Large cell neuroendocrine carcinoma	1	0	1
	8070	Squamous cell carcinoma, NOS	2	0	2
	8200	Adenoid cystic carcinoma	0	1	1
	8430	Mucoepidermoid carcinoma	1	0	1
	8774	Spindle cell melanoma, type B	0	1	1
	9510	Retinoblastoma, NOS	5	3	8
Brain, nervous system					
(C70-C72)			62	27	89
(C70-C72)	8000	Clinical, no microscopic confirmation	11	4	15
	8002	Malignant tumor, small cell type	1	0	1
	8800	Sarcoma, NOS	0	1	1
	9064	Germinoma	1	0	1
	9085	Mixed germ cell tumor	1	0	1
	9380	Glioma, malignant	0	1	1
	9382	Mixed glioma	0	2	2
	9391	Ependymoma, NOS	4	1	5
	9392	Ependymoma, anaplastic	1	0	1
	9400	Astrocytoma, NOS	8	6	14
	9401	Astrocytoma, anaplastic	4	1	5
	9410	Protoplasmic astrocytoma	0	1	1
	9411	Gemistocytic astrocytoma	3	1	4
	9440	Glioblastoma, NOS	18	4	22
	9442	Gliosarcoma	1	0	1
	9450	Oligodendroglioma, NOS	2	1	3
	9451	Oligodendroglioma, anaplastic	0	1	1
	9470	Medulloblastoma, NOS	5	1	6



PRIMARY SITE					
(ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
	9473	Primitive neuroectodermal tumor, NOS	1	0	1
	9500	Neuroblastoma, NOS	0	2	2
	9530	Meningioma, malignant	1	0	1
Thyroid			51	255	306
(C73)					
	8000	Clinical, no microscopic confirmation	0	2	2
	8000	Neoplasm, malignant	4	4	8
	8010	Carcinoma, NOS	2	1	3
	8020	Carcinoma, undifferentiated, NOS	2	0	2
	8021	Carcinoma, anaplastic, NOS	0	1	1
	8260	Papillary adenocarcinoma	31	182	213
	8290	Oxyphilic adenocarcinoma	1	1	2
	8330	Follicular adenocarcinoma, NOS	6	43	49
	8335	Follicular carcinoma, minimally invasive	0	1	1
	8340	Papillary carcinoma, follicular variant	3	8	11
	8341	Papillary microcarcinoma	1	10	11
	8344	Papillary carcinoma, columnar cell	0	1	1
	8510	Medullary carcinoma, NOS	1	1	2
Adrenal gland			9	5	14
(C74)					
	8000	Clinical, no microscopic confirmation	0	1	1
	8140	Adenocarcinoma, NOS	1	0	1
	8370	Adrenal cortical carcinoma	0	1	1
	8920	Alveolar rhabdomyosarcoma	1	0	1
	9500	Neuroblastoma, NOS	7	3	10
Other endocrine			3	2	5
(C75)					
	8240	Carcinoid tumor, NOS	0	2	2
	8246	Neuroendocrine carcinoma, NOS	1	0	1
	9085	Mixed germ cell tumor	1	0	1
	9440	Glioblastoma, NOS	1	0	1
Hodgkin			19	9	28
lymphoma					
(C81)					
	9650	Hodgkin lymphoma, NOS	3	2	5
	9651	Hodgkin lymphoma, lymphocyte-rich	0	1	1



PRIMARY SITE					
(ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
	9652	Hodgkin lymphoma, mixed cellularity, NOS	11	2	13
		Hodgkin lymphoma, nodular lymphocyte			
	9659	predominance	0	1	1
	9663	Hodgkin lymphoma, nodular sclerosis, NOS	4	3	7
	9666	H. dis.,nodular scler.,mixed cellularity	1	0	1
Non-Hodgkin			144	109	253
lymphoma	9590	Malignant lymphoma, NOS	2	2	4
(C82-C85, C96)	9591	Malignant lymphoma, non-Hodgkin, NOS	2	3	5
	9670	Malignant lymphoma, small B lymphocytic, NOS	1	1	2
	9671	Malignant lymphoma, lymphoplasmacytic	4	1	5
	9673	Mantle cell lymphoma	5	0	5
	9680	Malignant lymphoma, large B-cell, diffuse, NOS	82	73	155
	9687	Burkitt lymphoma, NOS	4	3	7
	9691	Follicular lymphoma, grade 2	3	0	3
	9695	Follicular lymphoma, grade 1	2	3	5
	9698	Follicular lymphoma, grade 3	3	3	6
	9699	Marginal zone B-cell lymphoma, NOS	9	6	15
	9700	Mycosis fungoides	1	0	1
	9702	Peripheral T-cell lymphoma, NOS	9	7	16
	9705	Angioimmunoblastic T-cell lymphoma	5	1	6
	9708	Subcutaneous panniculitis-like T-cell lymphoma	0	1	1
	9709	Cutaneous T-cell lymphoma, NOS	6	1	7
	9714	Anaplastic large cell lymphoma, T cell/Null cell type	4	2	6
		Primary cutaneous CD30+ T-cell			
	9718	lymphoprolif.disorder	1	0	1
	9719	NK/T-cell lymphoma, nasal and nasal-type	1	2	3
Multiple			27	19	46
myeloma	9731	Plasmacytoma, NOS	2	4	6
(C90)	9732	Multiple myeloma	25	15	40
Lymphoid			38	21	59
		B-cell chronic lymphocytic leukemia/small			
leukemia	9823	lymphocyt.lymphoma	9	3	12
(C91)	9835	Acute lymphoblastic leukemia, NOS	29	18	47



PRIMARY SITE (ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
Myeloid			45	28	73
leukemia	9860	Myeloid leukemia, NOS	0	1	1
(C92-C94)	9861	Acute myeloid leukemia, NOS	31	14	45
	9863	Chronic myeloid leukemia, NOS	11	9	20
	9866	Acute promyelocytic leukemia-M3	0	1	1
	9867	Acute myelomonocytic leukemia	1	0	1
	9874	Acute myeloid leukemia with maturation	1	1	2
	9930	Myeloid sarcoma	0	1	1
	9945	Chronic myelomonocytic leukemia, NOS	0	1	1
	9946	Juvenile myelomonocytic leukemia	1	0	1
Leukemia			4	5	9
unspecified	9800	Leukemia, NOS	1	4	5
(C95)	9801	Acute leukemia, NOS	3	1	4
Other &			75	56	131
unspecified	8000	Clinical, no microscopic confirmation	19	12	31
(C26, C39,	8010	Carcinoma, NOS	11	1	12
C42, C48,	8020	Carcinoma, undifferentiated, NOS	4	0	4
C76, C77,	8041	Small cell carcinoma, NOS	0	2	2
C80, C88)	8046	Non-small cell carcinoma	1	1	2
	8070	Squamous cell carcinoma, NOS	16	1	17
	8140	Adenocarcinoma, NOS	21	23	44
	8246	Neuroendocrine carcinoma, NOS	1	1	2
	8441	Serous cystadenocarcinoma, NOS	0	6	6
	8480	Mucinous adenocarcinoma	0	2	2
	8481	Mucin-producing adenocarcinoma	1	0	1
	8800	Sarcoma, NOS	0	1	1
	8850	Liposarcoma, NOS	0	1	1
	8851	Liposarcoma, well differentiated	0	2	2
	8858	Dedifferentiated liposarcoma	0	1	1
	9050	Mesothelioma, malignant	0	1	1
	9473	Primitive neuroectodermal tumor, NOS	0	1	1
		Malignant peripheral nerve sheath tumor			
	9540	sarcomatosis	1	0	1



PRIMARY SITE (ICD-10)	CODE	MORPHOLOGY	MALE	FEMALE	ALL
MPD			2	0	2
	9960	Chronic myeloproliferative disease, NOS	1	0	1
	9961	Myelosclerosis with myeloid metaplasia	1	0	1



APPENDIX: DEFINITIONS

BRAIN TUMOR	Excluding meningeal and cranial nerve tumor.
CANCER CASE	Excluding <i>in situ</i> 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).
INTERESTING TUMOR	Report only gastrointestinal tumor and neuroendocrine tumor.
NEW CASE	Cancer case diagnosed at Songklanagarind Hospital or referred to Songklanagarind Hospital in the year reported.
NOS.	Not Otherwise Specified.
TREATMENT	Treatment given at Songklanagarind hospital not including treatment received previously.