

TUMOUR REGISTRY

SIRIRAJ CANCER CENTER



STATISTICAL REPORT

1999

FACULTY OF MEDICINE SIRIRAJ HOSPITAL

MAHIDOL UNIVERSITY

ISSN 00857-3840

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SIRIRAJ CANCER CENTER



This is a report of the cancer patients for the year 1999 of the Siriraj Hospital, Mahidol University. It should be interpreted with caution if one would like to extrapolated this data for other years. It is quite informative for the faculty member who are interested in oncology especially who are planning for human resources, budget allocation, personal development, research and the teaching of oncology.

Obviously we have more patients this year. The cancer rate are 1.92% of all new admissions. There are some changes of the statistics of each cancer. Lung cancer is increasing every year, also colorectal cancer, bladder and prostate cancer. For breast cancer, we have more patients. (But we do more mammography and we have more patients with metastatic Specific Antigen) more often than before. For the numbers are the same.

As you will notice, the number of cervical and ovarian cancer and we hope we will have more of all cancers, we plan to add the treatment modality and survival in the future.

Again the main source of our patients are the surrounding provinces, only 1% come from Bangkok.

I would like to thank the committee of the tumor registry, especially the members of the registry, Dr. K. Anuragapichit and our faculty members who provide the information for us.

STATISTICAL REPORT

1999

P. Siriraj

Paired, M.D.
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INTRODUCTION

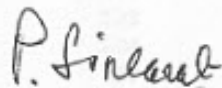
This is a report of the cancer statistics for the year 1999 of the Siriraj Hospital, Mahidol University. It is the hospital-based statistics, so it should be interpreted with caution if one would like to extrapolated this data for other uses. It is quite informative for the faculty member who are interested in oncology especially who are planing for human resource, budget allocation, personal development, research and the teaching of oncology.

Obviously we have more new cancer patients this year. The cancer case are 1.92% of all new patient are cancer patients. There are some changes of the statistics of each tumor type. Percentagewise, breast cancer is increasing every year, colo-rectal cancer also is increasing, so as bladder and prostate cancer. For breast and prostate cancer, Is it possible that we do more mammography and we check tumor marker PSA (Prostatic Specific Antigen) more often than before. For head and neck cancer the numbers are the same.

As you will notice that we add the staging of cervical and ovarian cancer and we hope we will have the staging of all cancers, we plan to add the treatment modality and survival in the future.

Again the main source of our patients are the surrounding provinces, only 1/4 come from Bangkok.

I would like to thank all the members of the committee of the tumor registry, especially Associate professor V. Vootiprux, Dr. K. Amornpichetkul and our faculty personnels who provide the information for us.



Pairoj Sinlarat, MD.

Chairman

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1999
TABLE I
NUMBER OF PATIENT

Type of Patient	No. of Cases
Total No. of Out Patients	1,188,340
Total No. of New Patients	208,830
Total No. of New Patients with Malignancy	4,006

The Cancer cases are 1.92% of all new patients

TABLE II
DIAGNOSIS

Diagnosed by	Number	Percentage
Histological proved	3,897	97.28
Clinical & X-ray	109	2.72
Total	4,006	100.00

TABLE III
NUMBER OF MALIGNANT NEOPLASM BY AGE AND SEX

AGE-group	MALE		FEMALE		TOTAL	
	No	%	No	%	No	%
ALL AGE	1,713	100.00	2,293	100.00	4,006	100.00
Unknown	4	0.23	3	0.13	7	0.17
1+	35	2.04	31	1.35	66	1.65
5+	20	1.17	14	0.61	34	0.85
10+	24	1.40	17	0.74	41	1.02
15+	29	1.69	28	1.22	57	1.42
20+	31	1.81	30	1.31	61	1.52
25+	33	1.93	57	2.49	90	2.25
30+	52	3.04	117	5.10	169	4.22
35+	80	4.67	170	7.41	250	6.24
40+	133	7.76	276	12.04	409	10.21
45+	123	7.18	301	13.13	424	10.58
50+	138	8.06	292	12.73	430	10.73
55+	175	10.22	219	9.55	394	9.84
60+	234	13.66	239	10.42	473	11.81
65+	229	13.37	192	8.37	421	10.51
70+	189	11.03	144	6.28	333	8.31
75+	119	6.95	83	3.62	202	5.04
80+	45	2.63	49	2.14	94	2.35
85+	14	0.82	23	1.00	37	0.92
90+	4	0.23	7	0.31	11	0.27
95+	2	0.12	1	0.04	3	0.07

TABLE III.I
NUMBER OF MALIGNANT NEOPLASM BY AGE AND SEX

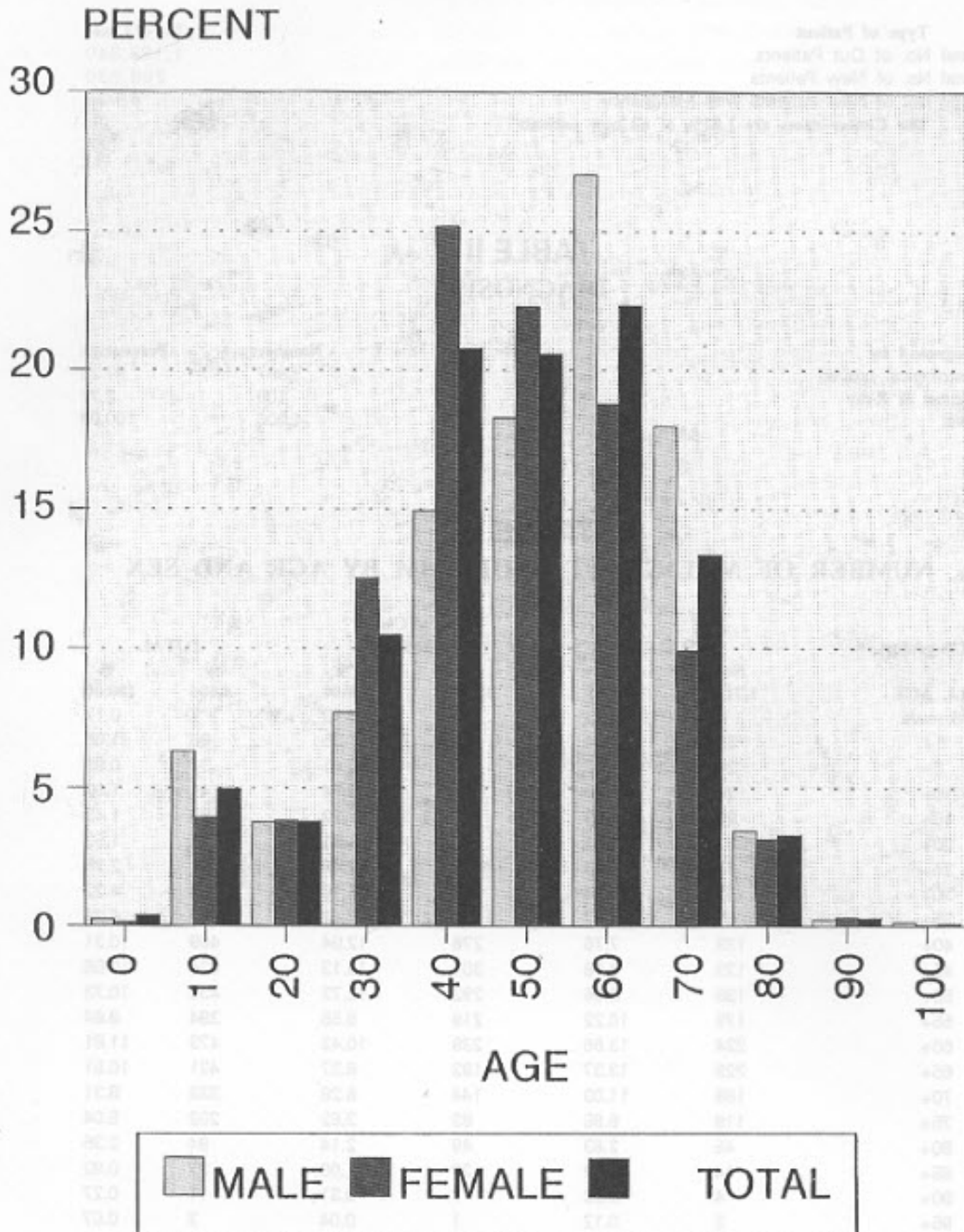


TABLE IV
PRIMARY SITE

CODE	SITE	No. of Cases			%
		M	F	T	
	GRAND TOTAL	1713	2293	4006	100.00
C00.0-C14.0	Malg. Neoplasm of Buccal & Pharynx	253	135	388	9.69
C00.0	Upper lip	1	2	3	0.07
C00.1	Lower lip	1	13	14	0.35
C01	Base of Tongue	15	3	18	0.45
C02.9	Tongue, unspecified	36	16	52	1.30
C03.0	Gum upper	1	2	3	0.07
C03.1	Gum lower	1	1	2	0.05
C03.9	Gum, unspecified	10	9	19	0.47
C04.9	Floor of mouth, unspecified	14	4	18	0.45
C05.0	Hard palate	5	5	10	0.25
C05.1	Soft palate	9	2	11	0.27
C05.9	Palate, unspecified	1	0	1	0.02
C06.0	Cheek mucosa	10	17	27	0.67
C07	Parotid gland	4	1	5	0.12
C08.9	Salivary gland, unspecified	4	5	9	0.22
C09.9	Tonsil, unspecified	20	9	29	0.27
C10.9	Oropharynx, unspecified	4	0	4	0.10
C11.9	Nasopharynx, unspecified	81	36	117	2.92
C12	Pyriform sinus	24	2	26	0.65
C13.9	Hypopharynx, unspecified	4	1	5	0.12
C14.0	Pharynx, unspecified	6	3	9	0.22
C14.8	Oral cavity, unspecified	2	4	6	0.15
C15 - C26	Digestive Organs	386	235	621	15.50
C15.9	Esophagus, unspecified	48	16	64	1.60
C16.9	Stomach, unspecified	47	28	75	1.87
C17.0	Duodenum	2	0	2	0.05
C17.1	Jejunum	1	2	3	0.07
C17.2	Ileum	2	2	4	0.10
C18.0	Caecum	5	2	7	0.17
C18.1	Appendix	1	0	1	0.02
C18.7	Sigmoid colon	27	34	61	1.52
C18.9	Colon, unspecified	51	49	100	2.50
C19	Rectosigmoid	1	0	1	0.02
C20	Rectum	49	39	88	2.20
C21.0	Anus, unspecified	0	2	2	0.05
C21.1	Anal canal	0	3	3	0.07
C22.0	Liver cell ca	107	23	130	3.25
C22.1	Cholangio ca	21	12	33	0.82
C22.2	Hepatoblastoma	1	1	2	0.05
C22.9	Liver, unspecified	4	0	4	0.10
C23	Gall bladder	1	8	9	0.22
C24.0	Bile duct	3	0	3	0.07
C24.1	Ampular of vater	7	4	11	0.27
C25.0	Pancreas head	7	4	11	0.27
C25.9	Pancreas, unspecified	1	6	7	0.17

TABLE III

CODE	SITE	No. of Cases			%
		M	F	T	
C30-C39	Malign. Neoplasm of Respiratory System	227	65	292	7.29
C30.0	Nasal cavity	8	3	11	0.27
C31.0	Maxillary sinus	3	5	8	0.20
C32.0	Glottis	25	2	27	0.67
C32.1	Supraglottis	15	2	17	0.42
C32.2	Subglottis	4	0	4	0.10
C32.9	Larynx unspecified	14	4	18	0.45
C33	Trachea	0	1	1	0.02
C34.9	Lung, unspecified	158	48	206	5.14
C40-C50	Malign. Neoplasm of Bone, Connective Tissue, Skin & Breast	121	564	685	17.09
C41.9	Bone, unspecified	19	20	39	0.97
C43.3	Melanoma, face	0	1	1	0.02
C43.7	Melanoma, lower limb	4	1	5	0.12
C43.8	Melanoma, overlap	0	1	1	0.02
C43.9	Melanoma, skin, unspecified	4	5	9	0.22
C44.0	Skin, lip	1	3	4	0.10
C44.1	Skin, eye lid	5	11	16	0.40
C44.2	Skin, ear	4	3	7	0.17
C44.3	Skin, face	13	16	29	0.72
C44.4	Skin scalp	3	6	9	0.22
C44.5	Skin trunk	4	2	6	0.15
C44.6	Skin, upper limb	6	2	8	0.20
C44.7	Skin, lower limb	12	2	14	0.35
C44.9	Skin, unspecified	19	16	35	0.87
C46.0	Kaposi, skin	1	0	1	0.02
C46.9	Kaposi, unspecified	1	0	1	0.02
C47.9	Peripheral nerve and Autonomic nerve system, unspecified	1	8	9	0.22
C49.1	Soft tissue, upper limb	1	0	1	0.02
C49.9	Soft tissue, unspecified	17	26	43	1.07
C50.9	Breast, unspecified	6	441	447	11.16
C51-C68	Malign. Neoplasm of Genital and Urinary Tract	245	834	1079	26.93
C51.2	Clitoris	0	1	1	0.02
C51.9	Vulva, unspecified	0	16	16	0.39
C52	Vagina	0	8	8	0.20
C53.9	Cervix, unspecified	0	565	565	14.10
C54.1	Endometrium	0	9	9	0.22
C54.9	Corpus, unspecified	0	63	63	1.57
C55	Uterus, unspecified	0	6	6	0.15
C56	Ovary	0	119	119	2.98
C58	Placenta	0	1	1	0.02
C60.0	Prepuce	1	0	1	0.02
C60.9	Penis, unspecified	19	0	19	0.47
C61	Prostate	99	0	99	2.47
C62.9	Testis, unspecified	4	0	4	0.10
C64	Kidney	17	12	29	0.72
C65	Renal pelvis	2	2	4	0.10
C66	Ureter	0	3	3	0.07
C67.5	Bladder, neck	3	0	3	0.07
C67.9	Bladder, unspecified	99	28	127	3.17
C68.0	Urethra	1	1	2	0.05

CODE	SITE	No. of Cases			%
		M	F	T	
C69-C75 Malignant Neoplasm of Eye, Brain, Spinal Cord, & Endocrine Gland		45	99	144	3.59
C69.0	Conjunctiva	1	0	1	0.02
C69.2	Retina	4	5	9	0.22
C69.4	Ciliary body	0	1	1	0.02
C69.5	Lacrimal gland	1	2	3	0.07
C70.9	Meninges unspc	0	1	1	0.02
C71.6	Cerebellum	1	0	1	0.02
C71.9	Brain, unspecified	17	18	35	0.87
C73	Thyroid gland	19	70	89	2.22
C74.9	Adrenal, unspecified	2	2	4	0.09
C76 - C80 Malignant Neoplasm of Ill-Defined, Secondary & Unspecified Site		131	111	242	6.04
C77.0	L node, head, neck	8	8	16	0.40
C77.9	L Node, unspecified site	2	0	2	0.05
C80	Without Specification of site	121	103	224	5.59
C81-C96 Malignant Neoplasms of Lymphoid, Haemetic & Related Tissue		305	250	555	13.85
C81.9	Hodgkin's disease	9	6	15	0.37
C84.4	T-cell lymphoma	0	2	2	0.05
C85.9	Lymphoma nos	130	92	222	5.54
C90.0	Multiple myeloma	29	23	52	1.30
C91.0	Acute lymphoblastic leukaemia	50	41	91	2.27
C91.1	Chronic lymphoblastic leukaemia	7	7	14	0.35
C92.0	Acute myeloid leukaemia	18	26	44	1.10
C92.1	Chronic myeloid leukaemia	34	18	52	1.30
C92.4	Acute promyelocytic leukaemia	6	7	13	0.32
C92.5	Acute myelomonocytic leukaemia	4	4	8	0.20
C93.0	Acute monocytic leukaemia	2	3	5	0.12
C94.7	Other specify leukaemia	10	14	24	0.60
C95.9	Leukaemia, unspecified	3	2	5	0.12
C96.1	Histiocytosis	3	5	8	0.20

TABLE V
PATHOLOGY ACCORDING TO SITE

			No. of Cases		
			M	F	Total
C00.0	Malig.	Neoplasm of upper lip	1	2	3
		Sq. cell ca.	1	2	3
C00.1	Malig.	Neoplasm of lower lip	1	13	14
		Sq. cell ca.	1	13	14
C01	Malig.	Neoplasm of base of tongue	15	3	18
		Adenoid cystic ca.	1	0	1
		Malig. lymphoma	0	1	1
		Sq. cell ca.	13	2	15
		Undiff. ca.	1	0	1
C02.9	Malig.	Neoplasm of Tongue, unspecified	36	16	52
		Adenocarcinoma	0	1	1
		No histology proved	2	0	2
		Sq. cell ca.	34	15	49
C03.0	Malig.	Neoplasm of Upper gum	1	2	3
		Malig. lymphoma	1	0	1
		Sq. cell ca.	0	2	2
C03.1	Malig.	Neoplasm of Lower gum	1	1	2
		Sq. cell ca.	1	1	2
C03.9	Malig.	Neoplasm of Gum, unspecified	10	9	19
		Malig. lymphoma	1	1	2
		No histology proved	1	1	2
		Sq. cell ca.	8	7	15
C04.9	Malig.	Neoplasm of floor of mouth	14	4	18
		Adenoid cystic ca.	0	1	1
		Sq. cell ca.	13	4	17
C05.0	Malig.	Neoplasm of Hard palate	5	5	10
		Adenoid cystic ca.	1	1	2
		Malig. lymphoma	0	2	2
		Sq. cell ca.	4	2	6
C05.1	Malig.	Neoplasm of Soft palate	9	2	11
		Malig. lymphoma	1	1	2
		Sq. cell ca.	8	0	8
		Undiff. ca.	0	1	1
C05.9	Malig.	Neoplasm of Palate, unspecified	1	0	1
		Sq. cell ca.	1	0	1
C06.0	Malig.	Neoplasm of Buccal mucosa	10	17	27
		No histology proved	1	0	1
		Sq. cell ca.	9	17	26
C07	Malig.	Neoplasm of Parotid gland	4	1	5
		Adenoid cystic ca.	1	0	1
		No histology proved	0	1	1
		Sq. cell ca.	3	0	3
C08.9	Malig.	Neoplasm of Salivary gland, unspecified	4	5	9
		Malig. lymphoma	1	2	3
		Acinic cell ca.	0	1	1
		Mucoepidermoid ca.	2	2	4
		Adenoid cystic ca.	1	0	1
C09.9	Malig.	Neoplasm of Tonsil	20	9	29
		Malig. lymphoma	2	3	5
		Sq. cell ca.	17	5	22
		Undiff. cell ca.	1	1	2

			No. of Cases		
			M	F	Total
C10.9	Malig.	Neoplasm of Oropharynx	4	0	4
		Sq. cell ca.	4	0	4
C11.9	Malig.	Neoplasm of Nasopharynx	81	36	117
		Adenocarcinoma	0	1	1
		Malig. lymphoma	1	1	2
		No histology proved	2	2	4
		Sq. cell ca.	39	16	55
		Undiff. ca.	38	16	54
		Neuroendocrine ca.	1	0	1
C12	Malig.	Neoplasm of Pyriform sinus	24	2	26
		No histology proved	1	0	1
		Sq. cell ca.	23	1	24
		Undiff. cell ca.	0	1	1
C13.9	Malig.	Neoplasm of Hypopharynx, unspecified	4	1	5
		Adenosquamous cell ca.	1	0	1
		Sq. cell ca.	3	1	4
C14.9	Malig.	Neoplasm of Pharynx, unspecified	8	7	15
		No histology proved	0	1	1
		Sq. cell ca.	7	6	13
		Neuroendocrine ca.	1	0	1
C15	Malig.	Neoplasm of Oesophagus	48	16	64
		Adenocarcinoma	4	1	5
		Adenosquamous cell ca.	1	0	1
		No histology proved	1	0	1
		Sq. cell ca.	41	15	56
		Undiff. ca.	1	0	1
C16	Malig.	Neoplasm of Stomach	47	28	75
		Adenocarcinoma	43	26	69
		Malig. lymphoma	2	2	4
		No histology proved	2	0	2
C17	Malig.	Neoplasm of Small Intestine	5	4	9
		Adenocarcinoma	2	2	4
		Leiomyosarcoma	1	0	1
		Malig. lymphoma	2	2	4
C18	Malig.	Neoplasm of Colon	84	85	169
		Adenocarcinoma	81	79	160
		Epitheloid sarcoma	0	1	1
		Leiomyosarcoma	0	1	1
		Malig. lymphoma	2	2	4
		No. histology proved	1	2	3
C19	Malig.	Neoplasm of rectosigmoid	1	0	1
		Adenocarcinoma	1	0	1
C20	Malig.	Neoplasm of Rectum	49	39	88
		Adenocarcinoma	47	38	85
		Malig. lymphoma	0	1	1
		No histology proved	2	0	2
C21	Malig.	Neoplasm of Anal Canal and Anus	0	5	5
		Adenocarcinoma	0	3	3
		Sq. cell ca.	0	2	2
C22	Malig.	Neoplasm of Liver	133	36	169
		Cholangiocarcinoma	21	12	33
		Hepatocellular ca.	107	23	130
		Hepatoblastoma	1	1	2
		No histology proved	1	0	1
		Undiff. ca.	3	0	3

TABLE V
PATHOLOGY ACCORDING TO SITE

ICD-9	Malignancy	Site	No. of Cases		
			M	F	Total
C23	Malign.	Neoplasm of Gall Bladder	1	8	9
		Adenocarcinoma	1	8	9
C24.0	Malign.	Neoplasm of Extrahepatic Common bile duct	3	0	3
		Adenocarcinoma	3	0	3
C24.1	Malign.	Neoplasm of Ampular of Vater	7	4	11
		Adenocarcinoma	6	3	9
		No histology proved	0	1	1
		Sq. cell ca.	1	0	1
C25.9	Malign.	Neoplasm of Pancreas	8	10	18
		Adenocarcinoma	3	5	8
		No histology proved	4	5	9
		Undiff. ca.	1	0	1
C30.0	Malign.	Neoplasm of Nasal Cavity	8	3	11
		Adenocarcinoma	0	1	1
		Adenoid cystic ca.	2	0	2
		Olfactory neuroblastoma	1	0	1
		Malign. lymphoma	3	0	3
		Rhabdomyosarcoma	0	1	1
		Sq. cell ca.	1	0	1
		Undiff. ca.	1	1	2
C31.0	Malign.	Neoplasm of Maxillary Sinus	3	5	8
		Adenocarcinoma	0	1	1
		Mucoepidermoid ca.	0	1	1
		No histology proved	1	0	1
		Sq. cell ca.	1	3	4
		Undiff. ca.	1	0	1
C32.0	Malign.	Neoplasm of Glottis	25	2	27
		Sq. cell ca.	25	2	27
C32.1	Malign.	Neoplasm of Supraglottis	15	2	17
		Adenoid cystic ca.	0	1	1
		Sq. cell ca.	15	1	16
C32.2	Malign.	Neoplasm of Subglottis	4	0	4
		Adenocarcinoma	1	0	1
		Sq. cell ca.	3	0	3
C32.9	Malign.	Neoplasm of Larynx, unspecified	14	4	18
		Sq. cell ca.	14	4	18
C33	Malign.	Neoplasm of Trachea	0	1	1
		Sq. cell ca.	0	1	1
C34.9	Malign.	Neoplasm of Lung and Bronchus	158	48	206
		Adenocarcinoma	72	37	109
		Alveolar cell ca.	1	2	3
		Malign. lymphoma	1	0	1
		No histology proved	5	1	6
		Sq. cell ca.	33	2	35
		Undiff. ca. large cell type	9	4	13
		Undiff. ca. small cell type	37	2	39
C40-C41	Malign.	Neoplasm of Bone	19	20	39
		Chondrosarcoma	2	1	3
		Ewing's sarcoma	2	1	3
		Giant cell sarcoma	2	3	5
		Osteosarcoma	13	14	27
		Synovial sarcoma	0	1	1
C43	Malign.	Melanoma of Skin	8	8	16
		Melanoma	8	8	16

				No. of Cases		
				M	F	Total
C44	Malign.	Neoplasm of Skin	67	61	128	
		Basal cell ca.	27	39	66	
		Bowen's disease	3	3	6	
		Dermatofibrosarcoma	2	0	2	
		Sebaceous ca.	1	1	2	
		Sq. cell ca.	33	18	51	
		Porocarcinoma	1	0	1	
C46	Malign.	Kaposi's Sarcoma	2	0	2	
		Kaposi's sarcoma	2	0	2	
C47	Malign.	Peripheral Nerve	1	8	9	
		Malign. Nerve sheath tumor	0	1	1	
		Neuroblastoma	1	7	8	
C49	Malign.	Connective Tissue	18	26	44	
		Embryonal Rhabdomyo sarcoma	0	1	1	
		Fibrosarcoma	0	1	1	
		Giant cell sarcoma	0	2	2	
		Haemangioblastoma	0	1	1	
		Leiomyosarcoma	2	6	8	
		Liposarcoma	2	1	3	
		Malign fibrous histio	4	5	9	
		Rhabdomyosarcoma	3	5	8	
		Spindle cell sarcoma	4	4	8	
		Synovial sarcoma	2	0	2	
		Lymphohistiocytic	1	0	1	
C50	Malign.	Neoplasm of Breast	6	441	447	
		Adenocarcinoma	0	1	1	
		Medullary ca.	0	1	1	
		Mucinous ca.	0	2	2	
		No histology proved	0	22	22	
		Papillary ca.	0	3	3	
		Paget's disease	0	3	3	
		Sq. Cell ca.	0	1	1	
		Undiff. ca.	0	2	2	
		Intraductal ca.	0	14	14	
		Infiltrative duct ca.	5	386	391	
		Invasive lobular ca.	1	2	3	
		Malign phylloides	0	4	4	
C51	Malign.	Neoplasm of Vulva	0	17	17	
		Adenocarcinoma	0	2	2	
		Adenosquamous cell ca	0	1	1	
		No histology proved	0	1	1	
		Paget's disease	0	1	1	
		Sq. cell ca.	0	12	12	
C52	Malign.	Neoplasm of Vagina	0	8	8	
		Adenocarcinoma	0	2	2	
		Sq. cell ca.	0	6	6	
C53	Malign.	Neoplasm of Cervix uteri	0	565	565	
		Adenocarcinoma	0	84	84	
		Adenosquamous cell ca.	0	22	22	
		Carcinoma in situ	0	8	8	
		Leiomyosarcoma	0	1	1	
		Mixed mesodermal sa	0	1	1	
		No histology proved	0	22	22	
		Sq. cell ca.	0	425	425	
		Undiff. ca.	0	2	2	

Code	Malignancy	Site	No. of Cases		
			M	F	Total
C54	Malig.	Neoplasm of Corpus uteri	0	72	72
		Adenocarcinoma	0	62	62
		Adenosquamous cell ca.	0	1	1
		Clear cell ca.	0	2	2
		Leiomyosarcoma	0	3	3
		No histology proved	0	4	4
C55	Malig.	Neoplasm of Uterus, Part unspecified	0	6	6
		Leiomyosarcoma	0	3	3
C56	Malig.	Neoplasm of Ovary	0	119	119
		Adenocarcinoma, nos	0	24	24
		Clear cell ca.	0	18	18
		Mucinous cyst adeno ca.	0	24	24
		Serous cyst adeno ca.	0	28	28
		Dysgerminoma	0	1	1
		Endometriod ca.	0	6	6
		Endodermal sinus ca.	0	3	3
		Malig. thymoma	0	1	1
		Leiomyosarcoma	0	3	3
		Brenner carcinoma	0	2	2
		Malig mixed germ cell tumour	0	2	2
		Malig. mixed. mesodermal tumour	0	2	2
		Malig teratoma	0	1	1
		No histology proved	0	4	4
		Granulosa cell tumor	0	1	1
		C58	Malig.	Neoplasm of Placenta	0
Choriocarcinoma	0			1	1
C60	Malig.	Neoplasm of Penis	20	0	20
		No histology proved	2	0	2
C61	Malig.	Neoplasm of Prostate	99	0	99
		Adenocarcinoma	92	0	92
		No histology proved	5	0	5
C62	Malig.	Neoplasm of Testis	4	0	4
		Embryonal cell carcinoma	1	0	1
		Malig. lymphoma	1	0	1
		Seminoma	2	0	2
C64	Malig.	Neoplasm of Kidney	17	12	29
		Adenocarcinoma	2	1	3
		Renal cell ca.	10	9	19
		Wilms' tumour	5	2	7
C65	Malig.	Neoplasm of Renal Pelvis	2	2	4
		Transitional cell ca.	2	2	4
C66	Malig.	Neoplasm of Ureter	0	3	3
		Transitional cell ca.	0	3	3
C67	Malig.	Neoplasm of Bladder	102	28	130
		Adenocarcinoma	3	1	4
		No histology proved	4	1	5
		Rhabdomyosarcoma	1	0	1
		Sq. cell ca.	1	2	3
C68	Malig.	Other Urinary Organ and unspecified	93	24	117
		Adenocarcinoma	0	1	1
		Transitional cell ca.	1	0	1

Site	ICD	Site	No. of Cases		
			M	F	Total
C69	Malig.	Neoplasm of Eye and Adnexa	6	8	14
		Adenoid cystic ca.	1	1	2
		Malig. lymphoma	0	1	1
		Melanoma	0	1	1
		Retinoblastoma	4	5	9
		Sq. cell ca.	1	0	1
C70	Malig.	Neoplasm of Meninges	0	1	1
		Meningioma	0	1	1
C71	Malig.	Neoplasm of Brain	18	18	36
		Astrocytoma	14	8	22
		Ependymoma	0	2	2
		Glioblastoma	3	2	2
		Malig. lymphoma	0	2	2
		Malig. mixed germ cell tumor	0	1	1
		Medulloblastoma	1	1	2
		No histology proved	0	1	1
C73	Malig.	Neoplasm of Thyroid gland	19	70	89
		Anaplastic cell ca.	5	4	9
		Follicular carcinoma	1	9	10
		Hurthle cell ca.	0	1	1
		Medullary ca.	0	1	1
		No histology proved	1	1	2
		Papillary ca.	12	54	66
C74	Malig.	Neoplasm of Adrenal gland	2	2	4
		Adrenal cortex ca.	0	2	2
		Ganglioneuroblastoma	2	0	2
C77	Malig.	Metastasis in Lymph node	10	8	18
		Adenocarcinoma	9	6	15
		Anaplastic cell ca.	0	1	1
		Sq. cell ca.	1	1	2
C80	Malig.	Neoplasm site not specified	121	103	224
		Adenocarcinoma	71	77	148
		Adenosquamous cell ca.	0	1	1
		Adenoid cystic ca.	1	0	1
		Anaplastic cell ca.	1	0	1
		Clear cell ca.	1	2	3
		Giant cell sarcoma	0	1	1
		Leiomyosarcoma	2	0	2
		Malig. mixed Germ cell tumour	3	0	3
		Mucinous ca.	2	0	2
		No histology proved	1	2	3
		Spindle cell sarcoma	1	0	1
		Sq. cell ca.	18	10	28
		Undiff. ca.	18	9	27
		Undiff. small cell	1	0	1
		Malig. Tumour, nos	1	0	1
		Neuroendocrine ca.	0	1	1
C81	Malig.	Hodgkin's disease	9	6	15
		Hodgkin's disease	9	6	15
C84	Malig.	Peripheral T-cell lymphoma	0	2	2
		Peripheral T-cell lymphoma	0	2	2
C85	Malig.	Malig. Lymphoma	130	92	222
		Malig. lymphoma	130	32	52
C90.0	Malig.	Multiple myeloma	29	23	52
		Multiple myeloma	29	23	52

ICD-9	Malignancy	Description	No. of Cases		
			M	F	Total
C91.0	Malignant	Acute Lymphoblastic leukaemia	50	41	91
		Acute lymphoblastic leukaemia	50	41	91
C91.1	Malignant	Chronic Lymphocytic leukaemia	7	7	14
		Chronic lymphocytic leukaemia	7	7	14
C92.0	Malignant	Acute Myeloid leukaemia	18	26	44
		Acute myeloid leukaemia	18	26	44
C92.1	Malignant	Chronic Myeloid leukaemia	34	18	52
		Chronic myeloid leukaemia	34	18	52
C92.2-C92.9	Malignant	Myeloid leukaemia unspecified	10	11	21
		Myeloid leukaemia unspecified	10	11	21
C93.0	Malignant	Acute Monocytic leukaemia	2	3	5
		Acute monocytic leukaemia	2	3	5
C94-C96	Malignant	Other leukaemia	16	21	37
		Other leukaemia	16	21	37

TABLE VI
THE TEN LEADING SITES

Site	M	F	T	%
ALL SITES	1,713	2,293	4,006	100
Cervix Uteri	0	565	565	14.10
Breast	6	441	447	11.15
Leukaemia	137	127	264	6.59
Colon Rectum	134	124	258	6.44
Lymphoma	130	94	224	5.59
Lung	158	48	206	5.14
Oral Cavity	105	74	179	4.47
Liver	133	36	169	4.22
Bladder	102	28	130	3.25
Skin	67	61	128	3.20

TABLE VI.I
THE TEN LEADING SITES

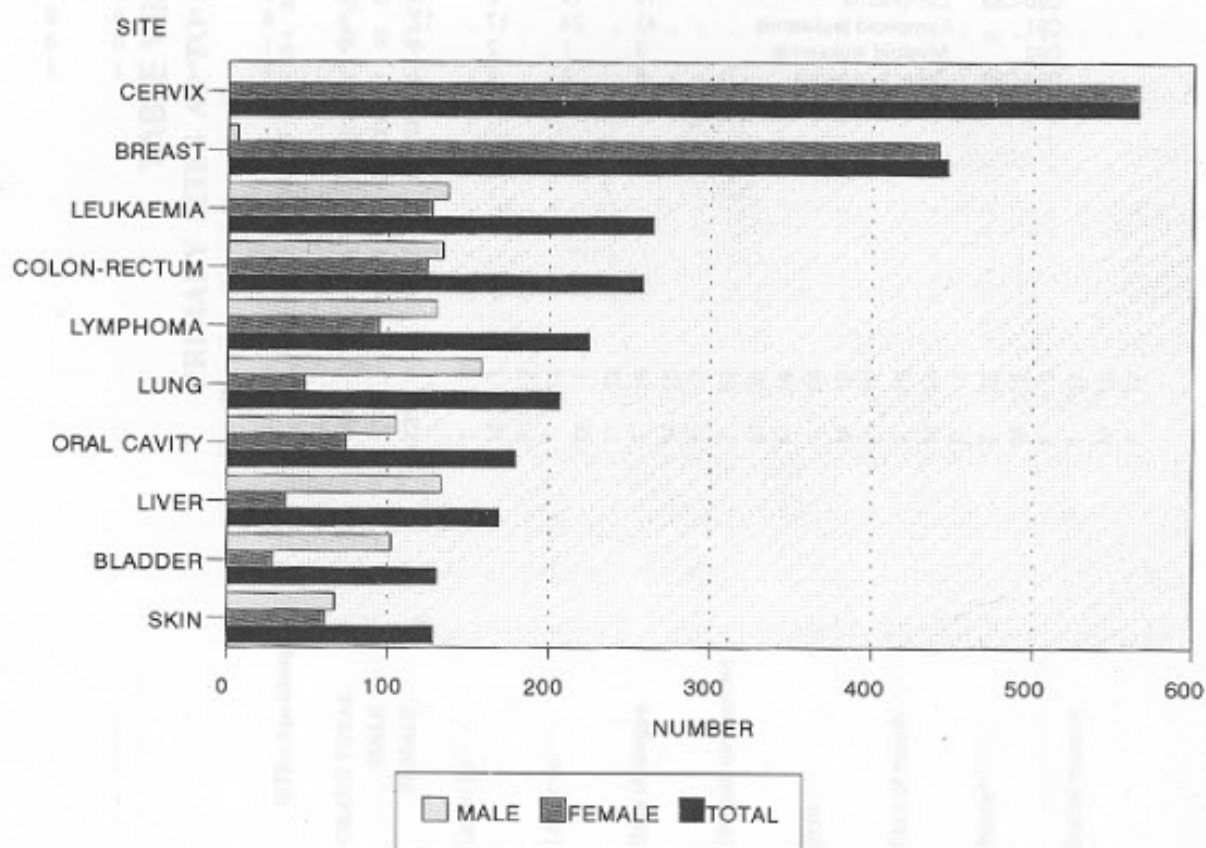
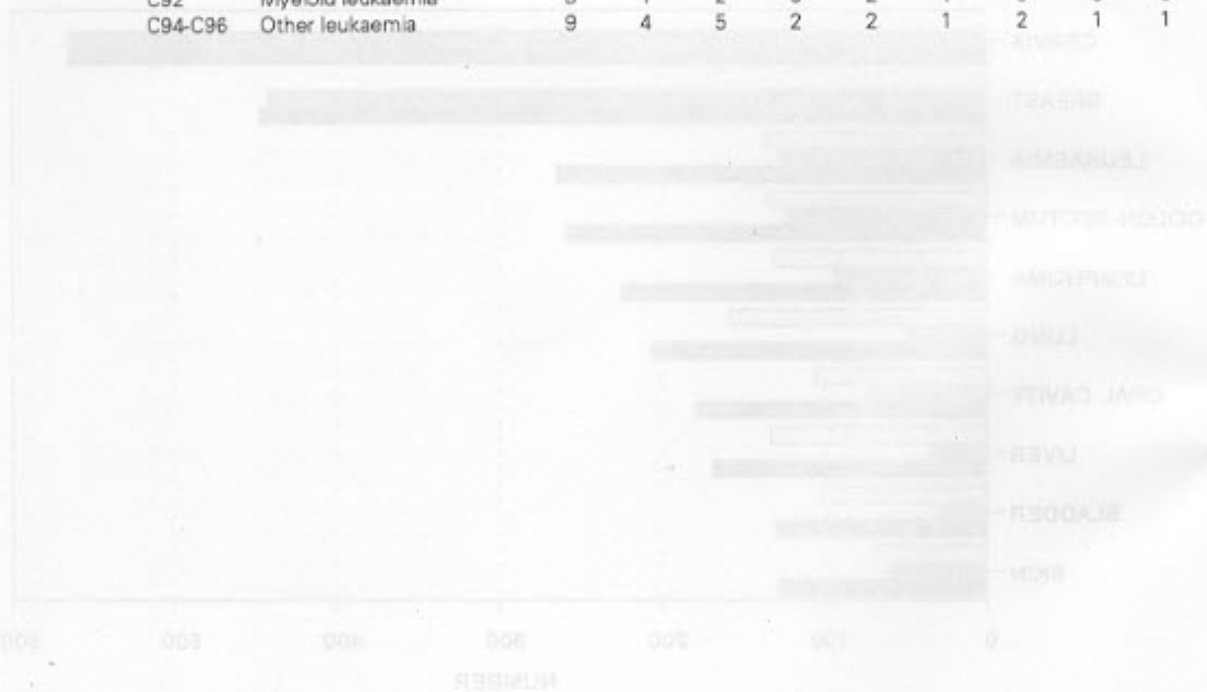


TABLE VII
MALIGNANT NEOPLASM IN CHILDHOOD

Code		No. of Cases			0-4		5-9		10-15	
		TOTAL	M	F	M	F	M	F	M	F
Total		141	79	62	35	31	20	14	24	17
C22	Liver	2	1	1	0	0	1	0	0	1
C40-C41	Bone and joint	10	7	3	0	0	3	1	4	2
C43-C44	Skin	1	1	0	1	0	0	0	0	0
C45-C49	Soft tissue	7	4	3	0	3	0	0	4	0
C51-C55	Vagina, uterus	1	0	1	0	0	0	0	0	1
C56-C57	Ovary and adnexa	3	0	3	0	1	0	0	0	2
C64-C65	Kidney	7	5	2	4	2	1	0	0	0
C66-C68	Urinary bladder	1	1	0	1	0	0	0	0	0
C69	Eye and adnexa	9	4	5	4	5	0	0	0	0
C71-C72	Brain and cord	20	5	15	1	6	2	6	2	3
C73	Thyroid	1	0	1	0	0	0	0	0	1
C74-C75	Endocrine gland	3	2	1	2	0	0	1	0	0
C76-C80	Ill defined site	3	3	0	3	0	0	0	0	0
C81	Hodgkin's disease	4	4	0	0	0	2	0	2	0
C80-C89	Lymphoma	16	13	3	5	2	3	1	5	0
C91	Lymphoid leukaemia	41	24	17	12	8	6	3	6	6
C92	Myeloid leukaemia	3	1	2	0	2	1	0	0	0
C94-C96	Other leukaemia	9	4	5	2	2	1	2	1	1



SITE / Age-Group		Under 1	1 + 5	10 + 15	20 + 25	30 + 35	40 + 45	50 + 55	60 + 65	70 + 75	80 + 85	90 + 95+	Unknown						
Lung and trachea	T 207	-	-	-	1	2	4	5	17	18	24	36	32	20	12	-	-	-	
	M 158	-	-	-	-	1	2	4	10	11	18	31	30	29	13	9	-	-	
	F 49	-	-	-	1	1	2	1	7	7	6	5	6	3	7	3	-	-	
Bone and joint	T 39	-	-	4	6	11	5	4	1	4	1	1	1	-	-	-	-	-	
	M 19	-	-	3	4	5	2	1	-	3	1	-	-	-	-	-	-	-	
	F 20	-	-	1	2	6	3	1	1	1	1	-	-	-	-	-	-	-	
Melanoma of skin	T 16	-	-	-	-	2	2	-	3	-	3	2	1	2	-	1	-	-	
	M 8	-	-	-	-	-	1	-	1	-	1	1	1	2	-	1	-	-	
	F 8	-	-	-	-	2	1	-	2	-	2	1	-	-	-	-	-	-	
Skin	T 128	-	1	-	-	5	1	9	6	8	15	18	24	13	13	5	5	3	1
	M 67	-	1	-	-	4	1	4	4	5	9	7	13	8	6	1	2	2	-
	F 61	-	-	-	-	1	-	5	2	3	6	11	11	5	7	4	3	1	1
Kaposi's sarcoma	T 2	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-
	M 2	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Peripheral nerve	F -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	T 9	-	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M 1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F 8	-	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connective and soft tissue	T 44	-	3	4	3	2	2	3	2	7	4	4	4	3	1	1	1	-	-
	M 18	-	-	4	2	1	3	2	1	2	1	-	-	-	-	-	-	-	-
	F 26	-	3	-	3	1	2	5	3	2	3	-	3	1	-	-	-	-	-
Breast	T 447	-	-	-	1	3	27	37	88	91	64	46	36	22	20	6	4	1	-
	M 6	-	-	-	-	-	-	3	1	-	1	-	-	-	-	-	-	-	-
	F 441	-	-	-	1	3	27	37	85	90	64	46	35	21	20	6	4	1	-
Vulva	T 17	-	-	-	-	-	-	2	1	-	3	3	1	4	2	1	-	-	-
	M -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F 17	-	-	-	-	-	-	2	1	-	3	3	1	4	2	1	-	-	-
Vagina	T 8	-	-	-	-	-	2	2	-	-	1	1	2	-	-	-	-	-	-
	M -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F 8	-	-	-	-	-	2	2	-	-	1	1	2	-	-	-	-	-	-
Cervix uteri	T 565	-	-	-	1	14	28	71	93	87	89	54	47	46	21	10	1	1	-
	M -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F 565	-	-	-	1	14	28	71	93	87	89	54	47	46	21	10	1	1	-

SITE / Age-Group Under 1 1+ 5+ 10+ 15+ 20+ 25+ 30+ 35+ 40+ 45+ 50+ 55+ 60+ 65+ 70+ 75+ 80+ 85+ 90+ 95+ Unknown

	Under 1	1	5+	10+	15+	20+	25+	30+	35+	40+	45+	50+	55+	60+	65+	70+	75+	80+	85+	90+	95+	Unknown	
Multiple myeloma																							
	T	52	-	-	-	-	-	-	3	1	3	6	9	11	7	6	2	2	-	-	1	1	-
	M	29	-	-	-	-	-	-	2	-	1	4	7	5	4	3	-	1	-	-	-	1	-
Acute lymphoblastic leukaemia																							
	F	23	-	-	-	-	-	-	1	1	2	2	2	6	3	3	2	1	-	-	-	-	-
	T	91	-	20	9	12	10	5	6	7	4	5	1	-	1	1	-	1	-	-	-	-	-
	M	50	-	12	6	6	7	2	4	5	2	3	1	-	-	-	-	-	-	-	-	-	-
Chronic lymphocytic leukaemia																							
	F	41	-	8	3	6	3	3	2	2	4	2	-	-	1	1	-	1	-	-	-	-	-
	T	14	-	-	-	-	-	-	1	-	1	-	3	1	-	1	3	2	-	1	-	1	-
	M	7	-	-	-	-	-	-	-	-	1	-	2	-	-	-	2	-	-	-	-	1	-
Acute myeloid leukaemia																							
	F	7	-	-	-	-	-	-	1	-	-	-	-	1	-	1	1	2	-	-	-	-	-
	T	44	-	2	1	-	1	4	8	5	1	-	-	1	3	6	5	6	-	-	-	-	-
	M	18	-	-	1	-	1	3	4	2	-	-	-	1	1	1	3	-	-	-	-	-	-
Chronic myeloid leukaemia																							
	F	26	-	2	-	-	-	1	4	3	1	-	-	3	5	4	3	-	-	-	-	-	-
	T	52	-	-	-	7	2	4	4	10	6	6	4	3	4	-	2	-	-	-	-	-	-
	M	34	-	-	-	5	2	2	9	4	2	3	1	3	-	1	-	-	-	-	-	-	-
Myeloid leukaemia, unspecified																							
	F	18	-	-	-	2	-	2	2	1	2	4	1	2	1	-	1	-	-	-	-	-	-
	T	21	-	-	-	1	1	3	1	3	1	1	2	1	3	2	1	1	-	-	-	-	-
	M	10	-	-	-	1	2	-	2	1	-	2	1	-	2	1	1	-	-	-	-	-	-
Acute monocytic leukaemia																							
	F	11	-	-	-	1	-	1	1	1	-	1	2	1	1	2	-	-	-	-	-	-	-
	T	5	-	-	-	-	-	2	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-
	M	2	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Leukaemia of unspecified type																							
	F	3	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	T	37	-	4	3	2	1	2	2	1	4	2	3	2	-	4	1	4	2	-	-	-	-
	M	16	-	2	1	1	-	1	2	-	3	-	2	-	1	-	2	1	-	-	-	-	-
	F	21	-	2	2	1	1	-	1	1	2	1	2	-	3	1	2	1	-	-	-	-	-



TABLE IX
THE COMMON SITE OF MALIGNANCY BY PERCENTAGE

Site	Percentage				
	1995	1996	1997	1998	1999
Total Cases	3741	3988	4014	3610	4006
Cervix Uteri	16.73	15.02	15.60	13.93	14.10
Breast	9.98	9.40	9.79	10.38	11.15
Leukaemia	6.89	5.77	7.25	7.53	6.59
Colon rectum	4.41	4.54	6.08	6.43	6.44
Lymphoma	4.78	4.99	5.31	3.93	5.59
Lung	5.34	6.47	6.63	6.32	5.14
Oral Cavity	7.86	6.24	5.18	5.21	4.47
Liver	5.24	4.11	4.93	4.04	4.22
Bladder	3.21	3.23	2.49	3.66	3.25
Skin	2.80	3.03	3.08	3.60	3.20

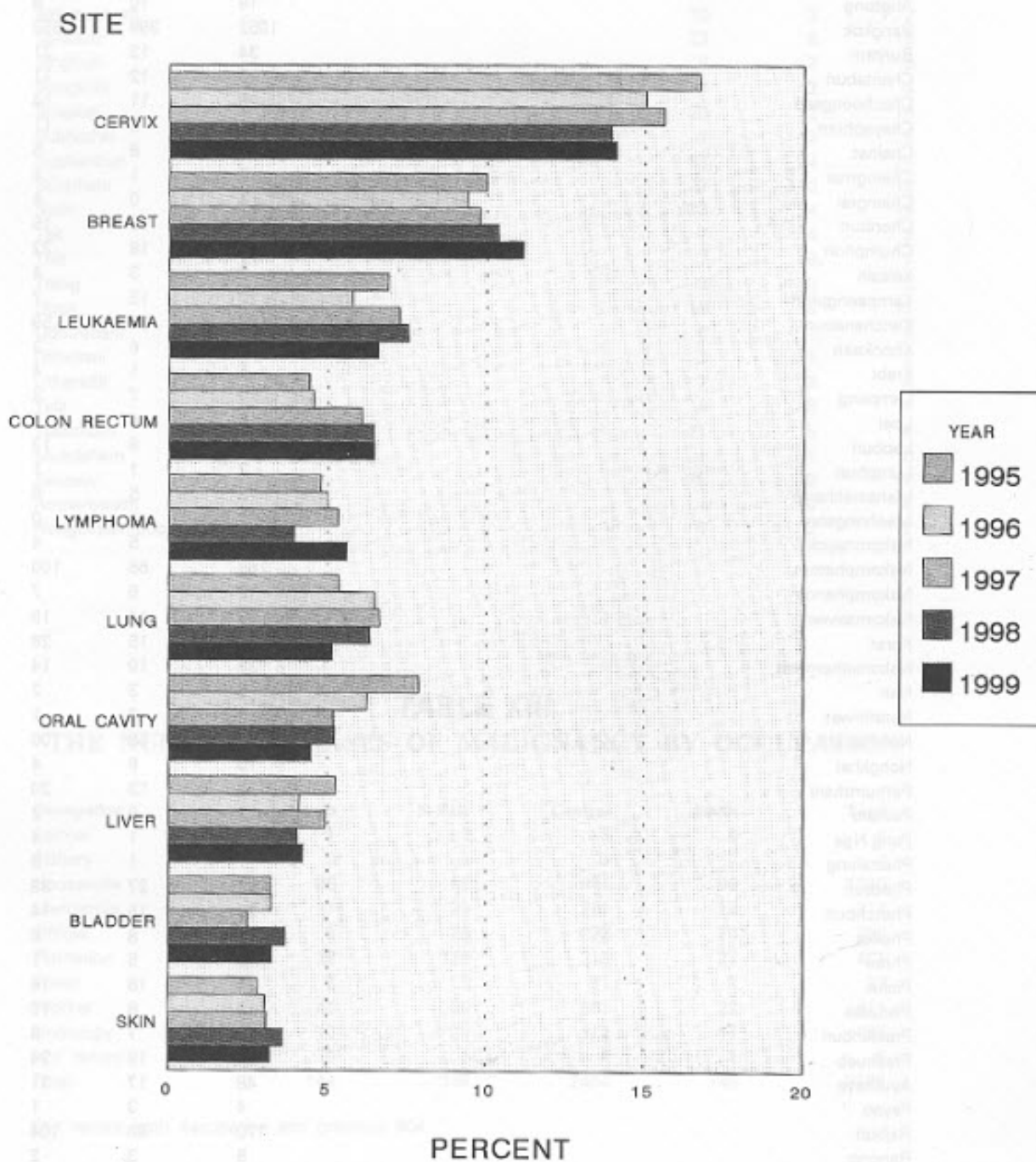
TABLE X
THE COMMON MALIGNANCY IN MALE

Site	Male	%
All site	1713	100
Lung	158	9.22
Leukaemia	137	8.00
Colon Rectum	134	7.82
Liver	133	7.76
Lymphoma	130	7.59
Oral Cavity	105	6.13
Bladder	102	5.95
Prostate	99	5.78
Nasopharynx	81	4.73
Skin	67	3.91

TABLE XI
THE COMMON MALIGNANCY IN FEMALE

Site	Female	%
All site	2293	100
Cervix	565	24.64
Breast	441	19.23
Leukaemia	127	5.54
Colon Rectum	124	5.41
Ovary	119	5.18
Lymphoma	94	4.10
Oral Cavity	74	3.23
Corpus	72	3.14
Thyroid	70	3.10
Skin	61	2.66

TABLE IX
THE COMMON SITE OF MALIGNANCY BY PERCENT
1995-99



XI TABLE XII
NUMBER OF CASES OF MALIGNANCY BY PROVINCE

Province	Total	Male	Female
All Province	4006	1713	2293
Angtong	18	10	8
Bangkok	1052	399	653
Buriram	34	13	21
Chantaburi	23	12	11
Chachoengsao	25	11	14
Chayaphum	16	5	11
Chainat	13	8	5
Chiengmai	5	1	4
Chiengrai	4	0	4
Chonburi	27	12	15
Chumphon	40	18	22
Kalasin	7	3	4
Kampaengphet	22	15	7
Kanchanaburi	95	36	59
Khonkaen	9	6	3
Krabi	5	1	4
Lampang	10	7	3
Loei	6	4	2
Lopburi	21	8	13
Lumphun	2	1	1
Mahasarakham	13	5	8
Maehongsorn	1	1	0
Nakornnayok	9	5	4
Nakomphatom	168	68	100
Nakomphanom	12	5	7
Nakornsawan	33	14	19
Korat	41	15	26
Nakonsithamarat	33	19	14
Nan	5	3	2
Narathiwat	3	2	1
Nonthaburi	174	68	106
Nongkhai	10	6	4
Pathumthani	33	13	20
Pathani	2	0	2
Pang Nga	5	1	4
Phattalung	1	1	0
Phetburi	65	27	38
Phetchbun	29	15	14
Phuket	14	8	6
Phrae	6	5	1
Pichit	34	18	16
Pisnulok	18	8	10
Prachinburi	16	7	9
Prachuab	53	19	34
Ayuthaya	48	17	31
Payao	4	3	1
Rajburi	170	66	104
Ranong	5	3	2

Province	Total	Male	Female
Rayong	7	2	5
Roi et	26	11	15
Samutprakan	106	35	71
Samutsakhorn	105	43	62
Samutsongkram	40	16	24
Sakonakhorn	10	3	7
Saraburi	23	8	15
Singburi	6	3	3
Songkhla	7	3	4
Srisaket	28	12	16
Sukhothai	7	2	5
Suphanburi	94	24	70
Surathani	22	10	12
Surin	33	14	19
Tak	7	4	3
Trat	7	6	1
Trang	3	0	3
Ubon	19	8	11
Udomthani	6	1	5
Uthaitani	3	1	2
Utharadit	7	3	4
Yala	4	3	1
Yasothon	11	5	6
Mukdaharn	1	1	0
Sakaew	15	8	7
Amnartjarearn	4	0	4
Nongbualampoo	5	3	2

TABLE XIII

THE NUMBER OF CASES OF MALIGNANCY BY OCCUPATION

Occupation	North	N-East	Central	South	Total
Farmer	1	0	3	0	4
Fishery	0	0	3	1	4
Housewife	38	59	944	39	1080
Mercantile	11	23	261	19	314
Official	8	26	232	24	290
Plantation	32	129	213	27	401
Priest	2	3	31	1	37
Worker	40	88	661	22	811
Unoccupy	12	20	112	11	155
Not record	0	1	4	1	6
Total	144	349	2464	145	3102

Not record both occupation and province 904

TABLE XIV
MALIGNANT LYMPHOMA BY SITE

Site	Total	Male	Female
All sites	263	148	115
Tongue	1	0	1
Gum	3	2	1
Palate	4	1	3
Salivary gland	3	1	2
Tonsil	5	2	3
Nasopharynx	2	1	1
Stomach	4	2	2
Small bowel	4	2	2
Large bowel	5	2	3
Accessory sinus	3	3	0
Eye and adnexa	1	0	1
Brain	2	0	2
Lymph node	224	130	94

TABLE XV
MALIGNANT LYMPHOMA BY AGE

Age	Total		Male		Female	
	n	%	n	%	n	%
All Age	263	100.00	148	100.00	115	100.00
Unknown	0	0.00	0	0.00	0	0.00
1+	7	2.66	5	3.38	2	1.74
5+	4	1.52	3	2.03	1	0.87
10+	5	1.90	5	3.38	0	0.00
15+	9	3.42	5	3.38	4	3.48
20+	16	6.08	11	7.43	5	4.35
25+	8	3.04	4	2.70	4	3.48
30+	12	4.56	8	5.41	4	3.48
35+	14	5.32	8	5.41	6	5.22
40+	30	11.41	19	12.84	11	9.57
45+	16	6.08	9	6.08	7	6.09
50+	18	6.84	10	6.76	8	6.96
55+	18	6.84	5	3.38	13	11.30
60+	28	10.65	17	11.49	11	9.57
65+	28	10.65	17	11.49	11	9.57
70+	22	8.37	12	8.11	10	8.70
75+	14	5.32	6	4.05	8	6.96
80+	6	2.28	4	2.70	2	1.74
85+	7	2.66	0	0.00	7	6.09
90+	1	0.38	0	0.00	1	0.87
95+	0	0.00	0	0.00	0	0.00

TABLE XVI
CLINICAL STAGE OF CERVIX

Stage	Female	%	Total	%
Stage not record	105	18.58	105	18.58
Stage 1	11	1.95	11	1.95
Stage 1a	3	0.53	3	0.53
Stage 1b	54	9.56	54	9.56
Stage 2	12	2.12	12	2.12
Stage 2a	11	1.95	11	1.95
Stage 2b	141	24.96	141	24.96
Stage 3	12	2.12	12	2.12
Stage 3b	202	35.75	202	35.75
Stage 4	9	1.59	9	1.59
Stage 4a	3	0.53	3	0.53
Stage 4b	2	0.35	2	0.35
Total	565	100.00	565	100.00

TABLE XVII
CLINICAL STAGE OF OVARY

Stage	Female	%	Total	%
Stage not record	39	32.77	39	32.77
Stage 1	1	0.84	1	0.84
Stage 1a	3	2.52	3	2.52
Stage 1c	20	16.81	20	16.81
Stage 2	2	1.68	2	1.68
Stage 2b	1	0.84	1	0.84
Stage 2c	3	2.52	3	2.52
Stage 3	3	2.52	3	2.52
Stage 3a	2	1.68	2	1.68
Stage 3b	7	5.88	7	5.88
Stage 3c	24	20.17	24	20.17
Stage 4	14	11.76	14	11.76
Total	119	100.00	119	100.00

THE COMMITTEE OF SIRIRAJ CANCER CENTER

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"	C. THIRAPAKAWONG	
"	S. ROJANANIN	
"	C. METHEETRAIRUT	
"	G. VEERAKUL	
"	C. CHONGKOLWATANA	
"	W. BOONNUCH	
"	V. SRIMUNINNIMIT	
"	C. NUALYONG	
"	K. AMORNPICHETKUL	
"	C. AUVARAKUL	
"	A. RATANAWICHITRASIN	
Mrs.	M. SOMBUTBOON	
Dr.	P. PATTARANUTAPORN	SECRETARY

THE SUBCOMMITTEE OF TUMOUR REGISTRY

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"	C. THIRAPAKAWONG	
"	V. SRIMUNINIMIT	
"	G. VEERAKUL	
"	K. AMORNPICHETKUL	
"	A. RATANAWICHITRASIN	
"	P. PATTARANUTAPORN	
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Mrs.	K. NEOVAKUL	
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Mr.	N. CHUMROJ	
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Miss.	M. MUANGNGAM	