

SINGAPORE CHILDHOOD CANCER REGISTRY

2003 – 2007

FOREWORD

This monograph will focus on childhood cancer incidence for Singapore. All childhood cancers (below 19 years) were notified to the SCCR by KK Women's and Children's hospital (KKH) and National University Hospital (NUH), these two institutions dominates 95% of all childhood cancer cases.

- A total of 767 cases were registered in Singapore between January, 2003 to December, 2007, of which 438 (57%) were local cases (329 were foreigners). This averages to be 153 cases per year. The incidence of childhood cancer was 101.56 per million per year in Singapore.
- There was no significant difference in childhood cancer incidence among Malays, Chinese or Indians.
- About half of all childhood cancers occurred in children below 5 years of age.

The results from these studies would serve as a reference for future researches in different childhood cancers and may be used for the purpose of planning of paediatric oncology services in Singapore. This would also provide a basis for comparison with similar figures from other countries.

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Acknowledgements

This registry is funded by Childhood Cancer Foundation (CCF) and Singapore Cancer Syndicate (SCS).

Thanks to all doctors and Paediatric Oncology Group Singapore (POGS) members who notified their cases and/or had contributed in any part to the project.

Staffs of Childhood Cancer registry (Germaine Liew, Jillian Teo, Chua Hsin Chieh, Myat Sabai Saw) for their assistance with the monograph.

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Introduction

The cancer registry can generate estimates of the burden of cancer in Singapore. It collects its data from voluntary notification from medical practitioners, pathology lab results and listings from death certificates. In 1997, the childhood cancer registry aimed at studying the epidemiology of childhood cancers within multiracial asian population was set up by a working group of paediatric oncologists.

Childhood cancer is not one disease entity, but rather a spectrum of different malignancies. Childhood cancers vary by type of histology, site of disease origin, race, sex, and age. This will be illustrated in the following pages of this monograph.

The majority of childhood cancers is treated in the two main paediatric hospitals, National university hospital (NUH) and KK Women's and Children's hospital (KKH). About 95% of all childhood cancer patients in Singapore are looked after by these two hospitals. The completeness of registration was counterchecked with pathology reports. A small number are treated in the private sector and if practitioners do not notify or the laboratory results are missed, these cases may not be included.

Method

Data of cancers on patients diagnosed between January 2003 to December 2007 from the age of 0-19 years was retrieved from the Singapore Childhood Cancer Registry (SCCR). The cases were notified by two main hospitals, namely KK Women's and Children's Hospital (KKH) and National University Hospital (NUH). These two hospitals diagnose and treat about 95% of all childhood malignancies in Singapore. A small number of patients were treated in the private sector. For adolescent cases majority were treated in adult or private hospitals.

The dataset in the registry were verified against hospital records in the hospitals where the children were being treated. The data was checked to exclude duplication, inaccurate data and missed cases. All newly diagnosed cases reported to the SCCR were in turn notified to the Singapore Cancer Registry (SCR). The database had been programmed to capture each patient's data according to the International Classification

of Diseases for Oncology [ICD-0] ¹ by anatomical site and morphology. The database can be found using the web link: <https://webvpn.nus-cme.org.sg>. Servers for the SCCR were guarded with Cisco firewalls and virtual private network (VPN), which acted as the data inspector to avoid intruders, viruses and hackers while the relational database is updated from new-screened input.

From the database, data can be extracted and the childhood cancer incidence can be determined. The rates were calculated as annual rate per million children under the age of 20 years for the Singaporean population. Non-resident cases were registered but not used for calculation of incidence rates. The crude incidence rate, and age standardized rate were based on the World Standard Population.

Confidence intervals were estimated using a logistic transformation of the survival probabilities and the corresponding standard errors.

In order to calculate rates, population estimates were obtained from the Bureau of the Census. In 2000, there were 912118 children (Singaporean/Singapore PR) below 20 years of age. Twenty eight percent of Singapore population is in this age range.

Childhood Cancer patterns

Since the 1960s, the survival of childhood cancer have shown marked improvements. An example of this is through the successful treatment of ALL patients. Survivals were 20% in the 1960s and have risen to currently 75%.

Results

A total of 767 cases are registered, of which 438 were local cases. This averages to be about 153 cases per year. The age-standardised incidence rate (ASR) is 101.56 per million.

The commonest type of childhood cancer is leukemia constituting 44% of all cases and incidence of 45.66 per million, half of which are below 5 years of age. The second most common type of cancer was CNS tumours with relative frequency at 14.2%; 14.41 per

million followed by lymphoma 10.0% and 9.46 per million, germ cell tumours 7.1%; 6.66 per million, malignant bone tumours 5.9%; 5.20 per million, neuroblastoma 5.3%; 5.9 per million, soft tissue sarcomas 3.9%; 3.81 per million, retinoblastoma 3.2%; 3.94 per million, renal tumours 2.3%; 2.47 per million, hepatic tumours 2.1%; 2.28 per million, and other tumours 2.1%; 1.39 per million. Histological verification was performed in 89% of all cases diagnosed in Singapore.

Children below 5 years of life have the highest incidence of childhood cancer, with male predominating 1.4 times higher than females. Embryonal tumours such as neuroblastoma, wilm's tumour, retinoblastoma, and hepatoblastoma occurred mainly in children below 5 years of age. Bone tumours, on the other hand, are more common in children between 10-14 years old.

Children between 15-19 years old have a lower incidence of childhood cancer compared to the 0-14 age group, with incidence in female being 1.8 times higher than males. The incidence of CNS tumours, bone tumours and germ cell tumours are similar among children in this age group. None of the children between 15-19 years old registered are diagnosed with retinoblastoma, renal tumours and hepatoblastoma.

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Table 1.1 Number of cases, Relative Frequencies and Incidence Rates for ALL Singaporean Children, 2003-2007 (Continue)

Absolute Counts	No. of Cases					Gender			RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total	M	F	M/F			0-4	5-9	10-14	15-19	CRUDE			
MALIGNANT BONE TUMOURS	1	8	13	4	26	16	10	1.6	5.9	100.0	0.94	6.35	11.04	3.79	5.70	5.20	100.0	110.6
Osteosarcoma	0	5	9	4	18	11	7	1.6	4.1	69.2	0.00	3.97	7.65	3.79	3.95	3.56	100.0	77.0
Chondroblastoma	0	0	0	0	0	0	0	-	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Ewing's Sarcoma	1	2	3	0	6	4	2	2.0	1.4	23.1	0.94	1.59	2.55	0.00	1.32	1.25	100.0	25.4
Other Specified	0	1	1	0	2	1	1	-	0.5	7.7	0.00	0.79	0.85	0.00	0.44	0.39	100.0	8.2
Unspecified	0	0	0	0	0	0	0	-	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SOFT TISSUE SARCOMAS	5	6	3	3	17	11	6	1.8	3.9	100.0	4.69	4.76	2.55	2.84	3.73	3.81	100.0	74.2
Rhabdomyosarcoma	4	3	2	1	10	7	3	2.3	2.3	58.8	3.75	2.38	1.70	0.95	2.19	2.32	100.0	43.9
Fibrosarcoma	0	1	0	1	2	1	1	1.0	0.5	11.8	0.00	0.79	0.00	0.95	0.44	0.41	100.0	8.7
Kaposi's sarcoma	0	0	0	0	0	0	0	-	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	1	2	1	1	5	3	2	1.5	1.1	29.4	0.94	1.59	0.85	0.95	1.10	1.08	100.0	21.6
Unspecified	0	0	0	0	0	0	0	-	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
GERM CELL/GONADAL	7	2	18	4	31	16	15	1.1	7.1	100.0	6.56	1.59	15.29	3.79	6.80	6.66	91.1	136.1
CNS GCT	0	1	12	2	15	9	6	1.5	3.4	48.4	0.00	0.79	10.19	1.89	3.29	2.92	73.3	64.4
Other Non-gonadal GCT	2	0	2	0	4	2	2	1.0	0.9	12.9	1.88	0.00	1.70	0.00	0.88	0.94	100.0	17.9
Gonadal GCT	5	1	4	2	12	5	7	0.7	2.7	38.7	4.69	0.79	3.40	1.89	2.63	2.80	100.0	53.9
Other & Unspecified	0	0	0	0	0	0	0	-	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CARCINOMAS/EPITHELIAL																		
NEOPLASMS	0	1	6	2	9	4	5	0.8	2.1	100.0	0.00	0.79	5.10	1.89	1.97	1.77	100.0	38.9
Adrenocortical	0	0	0	0	0	0	0	-	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Thyroid	0	0	1	1	2	0	2	0.0	0.5	22.2	0.00	0.00	0.85	0.95	0.44	0.40	100.0	9.0
Nasopharyngeal	0	0	3	0	3	3	0	-	0.7	33.3	0.00	0.00	2.55	0.00	0.66	0.57	100.0	12.7
Melanoma	0	0	0	0	0	0	0	-	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Skin	0	0	0	0	0	0	0	-	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other & Unspecified	0	1	2	1	4	1	3	0.3	0.9	44.4	0.00	0.79	1.70	0.95	0.88	0.79	100.0	17.2
OTHER/UNSPECIFIED NEOPLASMS	0	0	0	0	0	0	0	-	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0	0	-	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Unspecified	0	0	0	0	0	0	0	-	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Total	180	118	109	31	438	236	202	1.2	100.0	-	169.73	92.83	92.59	29.34	96.04	101.56	97.1	1854.6

Table 1.2 Number of cases, Relative Frequencies and Incidence Rates for MALE Children in Singapore, 2003-2007

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
LEUKEMIA	51	31	16	2	100	42.4	100.0	47.82	24.60	13.59	1.89	21.93	23.98	100.0	439.5
Lymphoid	40	27	12	1	80	33.9	80.0	37.51	21.42	10.19	0.95	17.54	19.11	100.0	350.4
Acute Non-Lymphocytic	7	2	1	0	10	4.2	10.0	6.56	1.59	0.85	0.00	2.19	2.56	100.0	45.0
Chronic Myeloid	1	0	3	1	5	2.1	5.0	0.94	0.00	2.55	0.95	1.10	1.07	100.0	22.2
Other Specified	1	0	0	0	1	0.4	1.0	0.94	0.00	0.00	0.00	0.22	0.28	100.0	4.7
Unspecified	2	2	0	0	4	1.7	4.0	1.88	1.59	0.00	0.00	0.88	0.96	100.0	17.3
Lymphomas	8	6	12	2	28	11.9	100.0	7.50	4.76	10.19	1.89	6.14	6.16	100.0	121.7
Hodgkin's Disease	0	0	3	0	3	1.3	10.7	0.00	0.00	2.55	0.00	0.66	0.57	100.0	12.7
Non-Hodgkin lymphoma	6	4	6	1	17	7.2	60.7	5.63	3.17	5.10	0.95	3.73	3.84	100.0	74.2
Burkitt's lymphoma	2	2	2	1	7	3.0	25.0	1.88	1.59	1.70	0.95	1.53	1.55	100.0	30.5
Misc	0	0	1	0	1	0.4	3.6	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CNS NEOPLASMS	15	6	10	1	32	13.6	100.0	14.07	4.76	8.49	0.95	7.02	7.53	93.3	141.3
Ependymoma	2	0	1	0	3	1.3	9.4	1.88	0.00	0.85	0.00	0.66	0.75	100.0	13.6
Astrocytoma	5	3	4	0	12	5.1	37.5	4.69	2.38	3.40	0.00	2.63	2.77	100.0	52.3
PNET	4	3	3	0	10	4.2	31.3	3.75	2.38	2.55	0.00	2.19	2.29	100.0	43.4
Other Gliomas	0	0	2	1	3	1.3	9.4	0.00	0.00	1.70	0.95	0.66	0.60	66.7	13.2
Other Specified	4	0	0	0	4	1.7	12.5	3.75	0.00	0.00	0.00	0.88	1.13	100.0	18.8
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SNS TUMOURS	8	4	0	0	12	5.1	100.0	7.50	3.17	0.00	0.00	2.63	3.04	100.0	53.4
Neuroblastoma &															
Ganglioneuroblastoma	8	4	0	0	12	5.1	100.0	7.50	3.17	0.00	0.00	2.63	3.04	100.0	53.4
Others	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
RETINOBLASTOMA	8	0	0	0	8	3.4	100.0	7.50	0.00	0.00	0.00	1.75	2.25	100.0	37.5
RENAL TUMOURS	3	0	1	0	4	1.7	100.0	2.81	0.00	0.85	0.00	0.88	1.04	75.0	18.3
Wilms' tumour	3	0	1	0	4	1.7	100.0	2.81	0.00	0.85	0.00	0.88	1.04	75.0	18.3
Renal Carcinoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
HEPATIC TUMOURS	3	1	1	0	5	2.1	100.0	2.81	0.79	0.85	0.00	1.10	1.23	100.0	22.3
Hepatoblastoma	3	0	0	0	3	1.3	60.0	2.81	0.00	0.00	0.00	0.66	0.84	100.0	14.1
Hepatic Carcinoma	0	1	1	0	2	0.8	40.0	0.00	0.79	0.85	0.00	0.44	0.39	100.0	8.2
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0

Table 1.2 Number of cases, Relative Frequencies and Incidence Rates for MALE Children in Singapore, 2003-2007 (Continue)

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
MALIGNANT BONE TUMOURS	1	5	7	3	16	6.8	100.0	0.94	3.97	5.95	2.84	3.51	3.25	100.0	68.5
Osteosarcoma	0	3	5	3	11	4.7	68.8	0.00	2.38	4.25	2.84	2.41	2.19	100.0	47.3
Chondroblastoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Ewing's Sarcoma	1	1	2	0	4	1.7	25.0	0.94	0.79	1.70	0.00	0.88	0.86	100.0	17.2
Other Specified	0	1	0	0	1	0.4	6.3	0.00	0.79	0.00	0.00	0.22	0.20	100.0	4.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SOFT TISSUE SARCOMAS	3	4	2	2	11	4.7	100.0	2.81	3.17	1.70	1.89	2.41	2.45	100.0	47.9
Rhabdomyosarcoma	3	1	2	1	7	3.0	63.6	2.81	0.79	1.70	0.95	1.53	1.64	100.0	31.3
Fibrosarcoma	0	1	0	0	1	0.4	9.1	0.00	0.79	0.00	0.00	0.22	0.20	100.0	4.0
Kaposi's sarcoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	2	0	1	3	1.3	27.3	0.00	1.59	0.00	0.95	0.66	0.61	100.0	12.7
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
GERM CELL/GONADAL	5	0	10	1	16	6.8	100.0	4.69	0.00	8.49	0.95	3.51	3.53	88.9	70.6
CNS GCT	0	0	8	1	9	3.8	56.3	0.00	0.00	6.80	0.95	1.97	1.74	66.7	38.7
Other Non-gonadal GCT	0	0	2	0	2	0.8	12.5	0.00	0.00	1.70	0.00	0.44	0.38	100.0	8.5
Gonadal GCT	5	0	0	0	5	2.1	31.3	4.69	0.00	0.00	0.00	1.10	1.41	100.0	23.4
Other & Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CARCINOMAS/EPITHELIAL NEOPLASMS	0	1	3	0	4	1.7	100.0	0.00	0.79	2.55	0.00	0.88	0.77	100.0	16.7
Adrenocortical	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Thyroid	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Nasopharyngeal	0	0	3	0	3	1.3	75.0	0.00	0.00	2.55	0.00	0.66	0.57	100.0	12.7
Melanoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Skin	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other & Unspecified	0	1	0	0	1	0.4	25.0	0.00	0.79	0.00	0.00	0.22	0.20	100.0	4.0
OTHER/UNSPECIFIED NEOPLASMS	0	0	0	0	0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Unspecified	0	0	0	0	0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Total	105	58	62	11	236	100.0	-	98.46	46.02	52.67	10.41	51.75	55.24	98.2	1037.8

Table 1.3 Number of cases, Relative Frequencies and Incidence Rates for CHINESE MALE Children in Singapore, 2003-2007

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
LEUKEMIA	31	25	12	2	70	41.9	100.0	29.07	19.83	10.19	1.89	15.35	16.40	100.0	305.0
Lymphoid	25	22	9	1	57	34.1	81.4	23.44	17.45	7.65	0.95	12.50	13.33	100.0	247.4
Acute Non-Lymphocytic	5	2	1	0	8	4.8	11.4	4.69	1.59	0.85	0.00	1.75	1.99	100.0	35.6
Chronic Myeloid	1	0	2	1	4	2.4	5.7	0.94	0.00	1.70	0.95	0.88	0.88	100.0	17.9
Other Specified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	1	0	0	1	0.6	1.4	0.00	0.79	0.00	0.00	0.22	0.20	100.0	4.0
LYMPHOMAS	4	4	9	1	18	10.8	100.0	3.75	3.17	7.65	0.95	3.95	3.85	100.0	77.6
Hodgkin's Disease	0	0	1	0	1	0.6	5.6	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Non-Hodgkin lymphoma	3	3	6	1	13	7.8	72.2	2.81	2.38	5.10	0.95	2.85	2.80	100.0	56.2
Burkitt's lymphoma	1	1	1	0	3	1.8	16.7	0.94	0.79	0.85	0.00	0.66	0.67	100.0	12.9
Misc	0	0	1	0	1	0.6	5.6	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CNS NEOPLASMS	9	5	10	1	23	13.8	100.0	8.44	3.17	7.65	0.95	5.04	5.26	90.0	101.0
Ependymoma	2	0	1	0	3	1.8	13.0	1.88	0.00	0.85	0.00	0.66	0.75	100.0	13.6
Astrocytoma	3	1	4	0	8	4.8	34.8	2.81	0.79	3.40	0.00	1.75	1.81	100.0	35.0
PNET	2	3	3	0	8	4.8	34.8	1.88	2.38	2.55	0.00	1.75	1.73	100.0	34.0
Other Gliomas	0	0	1	1	2	1.2	8.7	0.00	0.00	0.85	0.95	0.44	0.40	50.0	9.0
Other Specified	2	0	0	0	2	1.2	8.7	1.88	0.00	0.00	0.00	0.44	0.56	100.0	9.4
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SNS TUMOURS	7	4	0	0	11	6.6	100.0	6.56	3.17	0.00	0.00	2.41	2.76	100.0	48.7
Neuroblastoma & Ganglioneuroblastoma	7	4	0	0	11	6.6	100.0	6.56	3.17	0.00	0.00	2.41	2.76	100.0	48.7
Others	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
RETINOBLASTOMA	7	0	0	0	7	4.2	100.0	6.56	0.00	0.00	0.00	1.53	1.97	100.0	32.8
RENAL TUMOURS	2	0	0	0	2	1.2	100.0	1.88	0.00	0.00	0.00	0.44	0.00	50.0	9.4
Wilms' tumour	2	0	0	0	2	1.2	100.0	1.88	0.00	0.00	0.00	0.44	0.56	50.0	9.4
Renal Carcinoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
HEPATIC TUMOURS	3	1	1	0	5	3.0	100.0	2.81	0.79	0.85	0.00	1.10	1.23	100.0	22.3
Hepatoblastoma	3	0	0	0	3	1.8	60.0	2.81	0.00	0.00	0.00	0.66	0.84	100.0	14.1
Hepatic Carcinoma	0	1	1	0	2	1.2	40.0	0.00	0.79	0.85	0.00	0.44	0.39	100.0	8.2
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0

Table 1.3 Number of cases, Relative Frequencies and Incidence Rates for CHINESE MALE Children in Singapore, 2003-2007 (Continue)

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
MALIGNANT BONE TUMOURS	0	5	4	3	12	7.2	100.0	0.00	3.97	3.40	2.84	2.63	2.40	100.0	41.6
Osteosarcoma	0	3	4	3	10	6.0	83.3	0.00	2.38	3.40	2.84	2.19	2.00	100.0	43.1
Chondroblastoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Ewing's Sarcoma	0	1	0	0	1	0.6	8.3	0.00	0.79	0.00	0.00	0.22	0.20	100.0	4.0
Other Specified	0	1	0	0	1	0.6	8.3	0.00	0.79	0.00	0.00	0.22	0.20	100.0	4.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SOFT TISSUE SARCOMAS	2	2	0	2	6	3.6	100.0	1.88	1.59	0.00	1.89	1.32	1.39	100.0	26.8
Rhabdomyosarcoma	2	0	0	1	3	1.8	50.0	1.88	0.00	0.00	0.95	0.66	0.78	100.0	14.1
Fibrosarcoma	0	1	0	0	1	0.6	16.7	0.00	0.79	0.00	0.00	0.22	0.20	100.0	4.0
Kaposi's sarcoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	1	0	1	2	1.2	33.3	0.00	0.79	0.00	0.95	0.44	0.41	100.0	8.7
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
GERM CELL/GONADAL	5	0	6	1	12	7.2	100.0	4.69	0.00	5.10	0.95	2.63	2.77	78.6	53.7
CNS GCT	0	0	6	1	7	4.2	58.3	0.00	0.00	5.10	0.95	1.53	1.36	57.1	30.2
Other Non-gonadal GCT	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Gonadal GCT	5	0	0	0	5	3.0	41.7	4.69	0.00	0.00	0.00	1.10	1.41	100.0	23.4
Other & Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CARCINOMAS/EPITHELIAL NEOPLASMS	0	1	0	0	1	0.6	100.0	0.00	0.79	0.00	0.00	0.22	0.20	100.0	4.0
Adrenocortical	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Thyroid	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Nasopharyngeal	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Melanoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Skin	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other & Unspecified	0	1	0	0	1	0.6	100.0	0.00	0.79	0.00	0.00	0.22	0.20	100.0	4.0
OTHER/UNSPECIFIED NEOPLASMS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Total	70	47	42	10	167	100.0	-	65.64	36.50	34.83	9.46	36.62	38.22	84.9	722.7

Table 1.4 Number of cases, Relative Frequencies and Incidence Rates for MALAY MALE Children in Singapore, 2003-2007

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
LEUKEMIA	6	3	3	0	12	31.6	100.0	5.63	2.38	2.55	0.00	2.63	2.86	100.0	52.8
Lymphoid	4	2	2	0	8	21.1	66.7	3.75	1.59	1.70	0.00	1.75	1.90	100.0	35.2
Acute Non-Lymphocytic	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Chronic Myeloid	0	0	1	0	1	2.6	8.3	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Other Specified	1	0	0	0	1	2.6	8.3	0.94	0.00	0.00	0.00	0.22	0.28	100.0	4.7
Unspecified	1	1	0	0	2	5.3	16.7	0.94	0.79	0.00	0.00	0.44	0.48	100.0	8.7
LYMPHOMAS	4	1	1	1	7	18.4	100.0	3.75	0.79	0.85	0.95	1.53	1.73	100.0	31.7
Hodgkin's Disease	0	0	1	0	1	2.6	14.3	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Non-Hodgkin lymphoma	3	1	0	0	4	10.5	57.1	2.81	0.79	0.00	0.00	0.88	1.04	100.0	18.0
Burkitt's lymphoma	1	0	0	1	2	5.3	28.6	0.94	0.00	0.00	0.95	0.44	0.49	100.0	9.4
Misc	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CNS NEOPLASMS	5	1	0	0	6	15.8	100.0	4.69	0.79	0.00	0.00	1.32	1.60	100.0	27.4
Ependymoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Astrocytoma	2	1	0	0	3	7.9	50.0	1.88	0.79	0.00	0.00	0.66	0.76	100.0	13.3
PNET	1	0	0	0	1	2.6	16.7	0.94	0.00	0.00	0.00	0.22	0.28	100.0	4.7
Other Gliomas	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	2	0	0	0	2	5.3	33.3	1.88	0.00	0.00	0.00	0.44	0.56	100.0	9.4
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SNS TUMOURS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Neuroblastoma &															
Ganglioneuroblastoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Others	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
RETINOBLASTOMA	1	0	0	0	1	2.6	100.0	0.94	0.00	0.00	0.00	0.22	0.28	100.0	4.7
RENAL TUMOURS	1	0	1	0	2	5.3	100.0	0.94	0.00	0.85	0.00	0.44	0.47	100.0	8.9
Wilms' tumour	1	0	1	0	2	5.3	100.0	0.94	0.00	0.85	0.00	0.44	0.47	100.0	8.9
Renal Carcinoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
HEPATIC TUMOURS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Hepatoblastoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Hepatic Carcinoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0

Table 1.4 Number of cases, Relative Frequencies and Incidence Rates for MALAY MALE Children in Singapore, 2003-2007 (Continue)

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
MALIGNANT BONE TUMOURS	1	0	1	0	2	5.3	100.0	0.94	0.00	0.85	0.00	0.44	0.47	100.0	8.9
Osteosarcoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Chondroblastoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Ewing's Sarcoma	1	0	1	0	2	5.3	100.0	0.94	0.00	0.85	0.00	0.44	0.47	100.0	8.9
Other Specified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SOFT TISSUE SARCOMAS	1	1	0	0	2	5.3	100.0	0.94	0.79	0.00	0.00	0.44	0.48	100.0	8.7
Rhabdomyosarcoma	1	1	0	0	2	5.3	100.0	0.94	0.79	0.00	0.00	0.44	0.48	100.0	8.7
Fibrosarcoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Kaposi's sarcoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
GERM CELL/GONADAL	0	0	4	0	4	10.5	100.0	0.00	0.00	3.40	0.00	0.88	0.76	100.0	17.0
CNS GCT	0	0	2	0	2	5.3	50.0	0.00	0.00	1.70	0.00	0.44	0.38	100.0	8.5
Other Non-gonadal GCT	0	0	2	0	2	5.3	50.0	0.00	0.00	1.70	0.00	0.44	0.38	100.0	8.5
Gonadal GCT	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other & Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CARCINOMAS/EPITHELIAL NEOPLASMS	0	0	2	0	2	5.3	100.0	0.00	0.00	1.70	0.00	0.44	0.38	100.0	8.5
Adrenocortical	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Thyroid	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Nasopharyngeal	0	0	2	0	2	5.3	100.0	0.00	0.00	1.70	0.00	0.44	0.38	100.0	8.5
Melanoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Skin	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other & Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
OTHER/UNSPECIFIED NEOPLASMS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Total	19	6	12	1	38	100.0	-	17.82	4.76	10.19	0.95	8.33	9.04	100.0	168.6

Table 1.5 Number of cases, Relative Frequencies and Incidence Rates for INDIAN MALE Children in Singapore, 2003-2007

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
LEUKEMIA	9	3	1	0	13	52.0	100.0	8.44	2.38	0.85	0.00	2.85	3.32	100.0	58.3
Lymphoid	8	3	1	0	12	48.0	92.3	7.50	2.38	0.85	0.00	2.63	3.04	100.0	53.7
Acute Non-Lymphocytic	1	0	0	0	1	4.0	7.7	0.94	0.00	0.00	0.00	0.22	0.28	100.0	4.7
Chronic Myeloid	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
LYMPHOMAS	0	1	2	0	3	12.0	100.0	0.00	0.79	1.70	0.00	0.66	0.58	100.0	12.5
Hodgkin's Disease	0	0	1	0	1	4.0	33.3	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Non-Hodgkin lymphoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Burkitt's lymphoma	0	1	1	0	2	8.0	66.7	0.00	0.79	0.85	0.00	0.44	0.39	100.0	8.2
Misc	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CNS NEOPLASMS	1	1	0	0	2	8.0	100.0	0.94	0.79	0.00	0.00	0.44	0.48	100.0	8.7
Ependymoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Astrocytoma	0	1	0	0	1	4.0	50.0	0.00	0.79	0.00	0.00	0.22	0.20	100.0	4.0
PNET	1	0	0	0	1	4.0	50.0	0.94	0.00	0.00	0.00	0.22	0.28	100.0	4.7
Other Gliomas	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SNS TUMOURS	1	0	0	0	1	4.0	100.0	0.94	0.00	0.00	0.00	0.22	0.28	0.0	4.7
Neuroblastoma & Ganglioneuroblastoma	1	0	0	0	1	4.0	100.0	0.94	0.00	0.00	0.00	0.22	0.28	100.0	4.7
Others	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
RETINOBLASTOMA	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
RENAL TUMOURS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Wilms' tumour	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Renal Carcinoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
HEPATIC TUMOURS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Hepatoblastoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Hepatic Carcinoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0

Table 1.5 Number of cases, Relative Frequencies and Incidence Rates for INDIAN MALE Children in Singapore, 2003-2007 (Continue)

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
MALIGNANT BONE TUMOURS	0	0	2	0	2	8.0	100.0	0.00	0.00	1.70	0.00	0.44	0.38	100.0	8.5
Osteosarcoma	0	0	1	0	1	4.0	50.0	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Chondroblastoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Ewing's Sarcoma	0	0	1	0	1	4.0	50.0	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Other Specified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SOFT TISSUE SARCOMAS	0	1	2	0	3	12.0	100.0	0.00	0.79	1.70	0.00	0.66	0.58	100.0	12.5
Rhabdomyosarcoma	0	0	2	0	2	8.0	66.7	0.00	0.00	1.70	0.00	0.44	0.38	100.0	8.5
Fibrosarcoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Kaposi's sarcoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	1	0	0	1	4.0	33.3	0.00	0.79	0.00	0.00	0.22	0.20	100.0	4.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
GERM CELL/GONADAL	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CNS GCT	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Non-gonadal GCT	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Gonadal GCT	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other & Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CARCINOMAS/EPITHELIAL NEOPLASMS	0	0	1	0	1	4.0	100.0	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Adrenocortical	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Thyroid	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Nasopharyngeal	0	0	1	0	1	4.0	100.0	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Melanoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Skin	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other & Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
OTHER/UNSPECIFIED NEOPLASMS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Total	11	6	8	0	25	100.0	-	10.32	4.76	6.80	0.00	5.48	5.81	100.0	109.4

Table 1.6 Number of cases, Relative Frequencies and Incidence Rates for OTHER MALE Children in Singapore, 2003-2007

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
LEUKEMIA	5	0	0	0	5	83.3	100.0	4.69	0.00	0.00	0.00	1.10	1.41	100.0	23.4
Lymphoid	3	0	0	0	3	50.0	60.0	2.81	0.00	0.00	0.00	0.66	0.84	100.0	14.1
Acute Non-Lymphocytic	1	0	0	0	1	16.7	20.0	0.94	0.00	0.00	0.00	0.22	0.28	100.0	4.7
Chronic Myeloid	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	1	0	0	0	1	16.7	20.0	0.94	0.00	0.00	0.00	0.22	0.28	100.0	4.7
LYMPHOMAS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Hodgkin's Disease	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Non-Hodgkin lymphoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Burkitt's lymphoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Misc	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CNS NEOPLASMS	0	0	1	0	1	16.7	-	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Ependymoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Astrocytoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
PNET	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Gliomas	0	0	1	0	1	16.7	-	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Other Specified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SNS TUMOURS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Neuroblastoma &															
Ganglioneuroblastoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Others	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
RETINOBLASTOMA	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
RENAL TUMOURS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Wilms' tumour	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Renal Carcinoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
HEPATIC TUMOURS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Hepatoblastoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Hepatic Carcinoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0

Table 1.6 Number of cases, Relative Frequencies and Incidence Rates for OTHER MALE Children in Singapore, 2003-2007(Continue)

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
MALIGNANT BONE TUMOURS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Osteosarcoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Chondroblastoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Ewing's Sarcoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SOFT TISSUE SARCOMAS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Rhabdomyosarcoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Fibrosarcoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Kaposi's sarcoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
GERM CELL/GONADAL	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CNS GCT	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Non-gonadal GCT	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Gonadal GCT	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other & Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CARCINOMAS/EPITHELIAL NEOPLASMS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Adrenocortical	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Thyroid	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Nasopharyngeal	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Melanoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Skin	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other & Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
OTHER/UNSPECIFIED NEOPLASMS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Total	5	0	1	0	6	100.0	-	4.69	0.00	0.85	0.00	1.32	1.60	100.0	27.7

Table 1.7 Number of cases, Relative Frequencies and Incidence Rates for FEMALE Children in Singapore, 2003-2007

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
LEUKEMIA	39	30	16	8	93	46.0	100.0	36.57	23.80	13.59	7.57	20.39	21.68	100.0	407.7
Lymphoid	32	22	11	4	69	34.2	74.2	30.01	17.45	9.34	3.79	15.13	16.32	100.0	303.0
Acute Non-Lymphocytic	6	5	1	2	14	6.9	15.1	5.63	3.97	0.85	1.89	3.07	3.30	100.0	61.7
Chronic Myeloid	0	1	2	1	4	2.0	4.3	0.00	0.79	1.70	0.95	0.88	0.79	100.0	17.2
Other Specified	1	2	2	0	5	2.5	5.4	0.94	1.59	1.70	0.00	1.10	1.06	100.0	21.1
Unspecified	0	0	0	1	1	0.5	1.1	0.00	0.00	0.00	0.95	0.22	0.21	100.0	4.7
LYMPHOMAS	2	5	8	1	16	7.9	100.0	1.88	3.97	6.80	0.95	3.51	3.30	100.0	67.9
Hodgkin's Disease	0	1	1	1	3	1.5	18.8	0.00	0.79	0.85	0.95	0.66	0.60	100.0	12.9
Non-Hodgkin lymphoma	1	4	7	0	12	5.9	75.0	0.94	3.17	5.95	0.00	2.63	2.41	100.0	50.3
Burkitt's lymphoma	1	0	0	0	1	0.5	6.3	0.94	0.00	0.00	0.00	0.22	0.28	100.0	4.7
Misc	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CNS NEOPLASMS	11	12	4	3	30	14.9	100.0	10.32	9.52	3.40	2.84	6.58	6.88	74.4	130.4
Ependymoma	3	0	2	0	5	2.5	16.7	2.81	0.00	1.70	0.00	1.10	1.23	100.0	22.6
Astrocytoma	2	5	1	1	9	4.5	30.0	1.88	3.97	0.85	0.95	1.97	1.96	88.9	38.2
PNET	4	3	0	2	9	4.5	30.0	3.75	2.38	0.00	1.89	1.97	2.15	100.0	40.1
Other Gliomas	0	2	1	0	3	1.5	10.0	0.00	1.59	0.85	0.00	0.66	0.59	33.3	12.2
Other Specified	2	2	0	0	4	2.0	13.3	1.88	1.59	0.00	0.00	0.88	0.96	50.0	17.3
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SNS TUMOURS	8	2	0	1	11	5.4	100.0	7.50	1.59	0.00	0.95	2.41	2.86	100.0	50.2
Neuroblastoma &															
Ganglioneuroblastoma	8	2	0	1	11	5.4	100.0	7.50	1.59	0.00	0.95	2.41	2.86	100.0	50.2
Others	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
RETINOBLASTOMA	6	0	0	0	6	3.0	100.0	5.63	0.00	0.00	0.00	1.32	1.69	100.0	28.1
RENAL TUMOURS	3	2	1	0	6	3.0	100.0	2.81	1.59	0.85	0.00	1.32	1.43	100.0	26.2
Wilms' tumour	3	2	0	0	5	2.5	83.3	2.81	1.59	0.00	0.00	1.10	1.24	100.0	22.0
Renal Carcinoma	0	0	1	0	1	0.5	16.7	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
HEPATIC TUMOURS	3	1	0	0	4	2.0	100.0	2.81	0.79	0.00	0.00	0.88	1.04	100.0	18.0
Hepatoblastoma	3	0	0	0	3	1.5	75.0	2.81	0.00	0.00	0.00	0.66	0.84	100.0	14.1
Hepatic Carcinoma	0	1	0	0	1	0.5	25.0	0.00	0.79	0.00	0.00	0.22	0.20	100.0	4.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0

Table 1.7 Number of cases, Relative Frequencies and Incidence Rates for FEMALE Children in Singapore, 2003-2007 (Continue)

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
MALIGNANT BONE TUMOURS	0	3	6	1	10	5.0	100.0	0.00	2.38	5.10	0.95	2.19	1.95	100.0	42.1
Osteosarcoma	0	2	4	1	7	3.5	70.0	0.00	1.59	3.40	0.95	1.53	1.37	100.0	29.7
Chondroblastoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Ewing's Sarcoma	0	1	1	0	2	1.0	20.0	0.00	0.79	0.85	0.00	0.44	0.39	100.0	8.2
Other Specified	0	0	1	0	1	0.5	10.0	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SOFT TISSUE SARCOMAS	2	2	1	1	6	3.0	100.0	1.88	1.59	0.85	0.95	1.32	1.36	100.0	26.3
Rhabdomyosarcoma	1	2	0	0	3	1.5	50.0	0.94	1.59	0.00	0.00	0.66	0.68	100.0	12.6
Fibrosarcoma	0	0	0	1	1	0.5	16.7	0.00	0.00	0.00	0.95	0.22	0.21	100.0	4.7
Kaposi's sarcoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	1	0	1	0	2	1.0	33.3	0.94	0.00	0.85	0.00	0.44	0.47	100.0	8.9
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
GERM CELL/GONADAL	2	2	8	3	15	7.4	100.0	1.88	1.59	6.80	2.84	3.29	3.13	94.4	65.5
CNS GCT	0	1	4	1	6	3.0	40.0	0.00	0.79	3.40	0.95	1.32	1.18	83.3	25.7
Other Non-gonadal GCT	2	0	0	0	2	1.0	13.3	1.88	0.00	0.00	0.00	0.44	0.56	100.0	9.4
Gonadal GCT	0	1	4	2	7	3.5	46.7	0.00	0.79	3.40	1.89	1.53	1.39	100.0	30.4
Other & Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CARCINOMAS/EPITHELIAL NEOPLASMS	0	0	3	2	5	2.5	100.0	0.00	0.00	2.55	1.89	1.10	1.00	100.0	22.2
Adrenocortical	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Thyroid	0	0	1	1	2	1.0	40.0	0.00	0.00	0.85	0.95	0.44	0.40	100.0	9.0
Nasopharyngeal	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Melanoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Skin	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other & Unspecified	0	0	2	1	3	1.5	60.0	0.00	0.00	1.70	0.95	0.66	0.60	100.0	13.2
OTHER/UNSPECIFIED NEOPLASMS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Total	76	59	47	20	202	100.0	-	71.27	46.81	39.93	18.93	44.29	46.33	97.2	884.7

Table 1.8 Number of cases, Relative Frequencies and Incidence Rates for CHINESE FEMALE Children in Singapore, 2003-2007

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
LEUKEMIA	29	19	14	6	68	45.3	100.0	27.19	15.07	11.89	5.68	14.91	15.88	100.0	299.2
Lymphoid	24	13	11	3	51	34.0	75.0	22.51	10.31	9.34	2.84	11.18	12.07	100.0	225.0
Acute Non-Lymphocytic	4	4	1	1	10	6.7	14.7	3.75	3.17	0.85	0.95	2.19	2.32	100.0	43.6
Chronic Myeloid	0	1	1	1	3	2.0	4.4	0.00	0.79	0.85	0.95	0.66	0.60	100.0	12.9
Other Specified	1	1	1	0	3	2.0	4.4	0.94	0.79	0.85	0.00	0.66	0.67	100.0	12.9
Unspecified	0	0	0	1	1	0.7	1.5	0.00	0.00	0.00	0.95	0.22	0.21	100.0	4.7
LYMPHOMAS	0	5	5	1	11	7.3	100.0	0.00	3.97	4.25	0.95	2.41	2.16	100.0	45.8
Hodgkin's Disease	0	1	0	1	2	1.3	18.2	0.00	0.79	0.00	0.95	0.44	0.41	100.0	8.7
Non-Hodgkin lymphoma	0	4	5	0	9	6.0	81.8	0.00	3.17	4.25	0.00	1.97	1.75	100.0	37.1
Burkitt's lymphoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Misc	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CNS NEOPLASMS	9	9	3	3	24	16.0	100.0	8.44	7.14	2.55	2.84	5.26	5.53	57.1	104.8
Ependymoma	3	0	2	0	5	3.3	20.8	2.81	0.00	1.70	0.00	1.10	1.23	100.0	22.6
Astrocytoma	2	3	1	1	7	4.7	29.2	1.88	2.38	0.85	0.95	1.53	1.56	85.7	30.3
PNET	4	3	0	2	9	6.0	37.5	3.75	2.38	0.00	1.89	1.97	2.15	100.0	40.1
Other Gliomas	0	2	0	0	2	1.3	8.3	0.00	1.59	0.00	0.00	0.44	0.40	0.0	7.9
Other Specified	0	1	0	0	1	0.7	4.2	0.00	0.79	0.00	0.00	0.22	0.20	0.0	4.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SNS TUMOURS	5	2	0	1	8	5.3	100.0	4.69	1.59	0.00	0.95	1.75	2.02	100.0	36.1
Neuroblastoma &															
Ganglioneuroblastoma	5	2	0	1	8	5.3	100.0	4.69	1.59	0.00	0.95	1.75	2.02	100.0	36.1
Others	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
RETINOBLASTOMA	6	0	0	0	6	4.0	100.0	5.63	0.00	0.00	0.00	1.32	1.69	100.0	28.1
RENAL TUMOURS	3	0	1	0	4	2.7	100.0	2.81	0.00	0.85	0.00	0.88	1.04	100.0	18.3
Wilms' tumour	3	0	0	0	3	2.0	75.0	2.81	0.00	0.00	0.00	0.66	0.84	100.0	14.1
Renal Carcinoma	0	0	1	0	1	0.7	25.0	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
HEPATIC TUMOURS	2	1	0	0	3	2.0	100.0	1.88	0.79	0.00	0.00	0.66	0.76	100.0	13.3
Hepatoblastoma	2	0	0	0	2	1.3	66.7	1.88	0.00	0.00	0.00	0.44	0.56	100.0	9.4

Table 1.8 Number of cases, Relative Frequencies and Incidence Rates for CHINESE FEMALE Children in Singapore, 2003-2007 (Continue)

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
MALIGNANT BONE TUMOURS	0	2	4	1	7	4.7	100.0	0.00	1.59	3.40	0.95	1.53	1.37	100.0	29.7
Osteosarcoma	0	2	2	1	5	3.3	71.4	0.00	1.59	1.70	0.95	1.10	0.99	100.0	21.2
Chondroblastoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Ewing's Sarcoma	0	0	1	0	1	0.7	14.3	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Other Specified	0	0	1	0	1	0.7	14.3	0.00	0.00	0.85	0.00	0.22	0.19	0.0	4.2
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SOFT TISSUE SARCOMAS	2	2	1	1	6	4.0	100.0	1.88	1.59	0.85	0.95	1.32	1.36	100.0	26.3
Rhabdomyosarcoma	1	2	0	0	3	2.0	50.0	0.94	1.59	0.00	0.00	0.66	0.68	100.0	12.6
Fibrosarcoma	0	0	0	1	1	0.7	16.7	0.00	0.00	0.00	0.95	0.22	0.21	100.0	4.7
Kaposi's sarcoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	1	0	1	0	2	1.3	33.3	0.94	0.00	0.85	0.00	0.44	0.47	100.0	8.9
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
GERM CELL/GONADAL	2	1	5	2	10	6.7	100.0	1.88	0.79	4.25	1.89	2.19	2.14	93.3	44.0
CNS GCT	0	0	3	1	4	2.7	40.0	0.00	0.00	2.55	0.95	0.88	0.79	80.0	17.5
Other Non-gonadal GCT	2	0	0	0	2	1.3	20.0	1.88	0.00	0.00	0.00	0.44	0.56	100.0	9.4
Gonadal GCT	0	1	2	1	4	2.7	40.0	0.00	0.79	1.70	0.95	0.88	0.79	100.0	17.2
Other & Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CARCINOMAS/EPITHELIAL NEOPLASMS	0	0	1	2	3	2.0	100.0	0.00	0.00	0.85	1.89	0.66	0.62	100.0	13.7
Adrenocortical	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Thyroid	0	0	0	1	1	0.7	33.3	0.00	0.00	0.00	0.95	0.22	0.21	100.0	4.7
Nasopharyngeal	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Melanoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Skin	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other & Unspecified	0	0	1	1	2	1.3	66.7	0.00	0.00	0.85	0.95	0.44	0.40	100.0	9.0
OTHER/UNSPECIFIED NEOPLASMS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Total	58	41	34	17	150	100.0	-	54.39	32.53	28.88	16.09	32.89	34.57	95.5	659.4

Table 1.9 Number of cases, Relative Frequencies and Incidence Rates for MALAY FEMALE Children in Singapore, 2003-2007

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
LEUKEMIA	5	8	2	1	16	48.5	100.0	4.69	6.35	1.70	0.95	3.51	3.59	100.0	68.4
Lymphoid	4	6	0	0	10	30.3	62.5	3.75	4.76	0.00	0.00	2.19	2.32	100.0	42.6
Acute Non-Lymphocytic	1	1	0	1	3	9.1	18.8	0.94	0.79	0.00	0.95	0.66	0.69	100.0	13.4
Chronic Myeloid	0	0	1	0	1	3.0	6.3	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Other Specified	0	1	1	0	2	6.1	12.5	0.00	0.79	0.85	0.00	0.44	0.39	100.0	8.2
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Lymphomas	2	0	2	0	4	12.1	100.0	1.88	0.00	1.70	0.00	0.88	0.94	100.0	17.9
Hodgkin's Disease	0	0	1	0	1	3.0	25.0	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Non-Hodgkin lymphoma	1	0	1	0	2	6.1	50.0	0.94	0.00	0.85	0.00	0.44	0.47	100.0	8.9
Burkitt's lymphoma	1	0	0	0	1	3.0	25.0	0.94	0.00	0.00	0.00	0.22	0.28	100.0	4.7
Misc	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CNS NEOPLASMS	1	2	1	0	4	12.1	100.0	0.94	1.59	0.85	0.00	0.88	0.87	66.7	16.9
Ependymoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Astrocytoma	0	2	0	0	2	6.1	50.0	0.00	1.59	0.00	0.00	0.44	0.40	100.0	7.9
PNET	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Gliomas	0	0	1	0	1	3.0	25.0	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Other Specified	1	0	0	0	1	3.0	25.0	0.94	0.00	0.00	0.00	0.22	0.28	0.0	4.7
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SNS TUMOURS	1	0	0	0	1	3.0	100.0	0.94	0.00	0.00	0.00	0.22	0.28	100.0	4.7
Neuroblastoma & Ganglioneuroblastoma	1	0	0	0	1	3.0	100.0	0.94	0.00	0.00	0.00	0.22	0.28	100.0	4.7
Others	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
RETINOBLASTOMA	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
RENAL TUMOURS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Wilms' tumour	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Renal Carcinoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
HEPATIC TUMOURS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Hepatoblastoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Hepatic Carcinoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0

Table 1.9 Number of cases, Relative Frequencies and Incidence Rates for MALAY FEMALE Children in Singapore, 2003-2007 (Continue)

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
MALIGNANT BONE TUMOURS	0	0	2	0	2	6.1	100.0	0.00	0.00	1.70	0.00	0.44	0.38	100.0	8.5
Osteosarcoma	0	0	2	0	2	6.1	100.0	0.00	0.00	1.70	0.00	0.44	0.38	100.0	8.5
Chondroblastoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Ewing's Sarcoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SOFT TISSUE SARCOMAS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Rhabdomyosarcoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Fibrosarcoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Kaposi's sarcoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
GERM CELL/GONADAL	0	1	2	1	4	12.1	100.0	0.00	0.79	1.70	0.95	0.88	0.79	100.0	17.2
CNS GCT	0	1	1	0	2	6.1	50.0	0.00	0.79	0.85	0.00	0.44	0.39	100.0	8.2
Other Non-gonadal GCT	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Gonadal GCT	0	0	1	1	2	6.1	50.0	0.00	0.00	0.85	0.95	0.44	0.40	100.0	9.0
Other & Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CARCINOMAS/EPITHELIAL NEOPLASMS	0	0	2	0	2	6.1	100.0	0.00	0.00	1.70	0.00	4.83	0.38	100.0	8.5
Adrenocortical	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Thyroid	0	0	1	0	1	3.0	50.0	0.00	0.00	0.85	0.00	2.41	0.19	100.0	4.2
Nasopharyngeal	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Melanoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Skin	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other & Unspecified	0	0	1	0	1	3.0	50.0	0.00	0.00	0.85	0.00	2.41	0.19	100.0	4.2
OTHER/UNSPECIFIED NEOPLASMS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Total	9	11	11	2	33	100.0	-	8.44	8.73	9.34	1.89	11.63	7.24	95.2	142.0

Table 1.10 Number of cases, Relative Frequencies and Incidence Rates for INDIAN FEMALE Children in Singapore, 2003-2007

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
LEUKEMIA	3	2	0	1	6	42.9	100.0	2.81	1.59	0.00	0.95	1.32	1.45	100.0	26.7
Lymphoid	2	2	0	1	5	35.7	83.3	1.88	1.59	0.00	0.95	1.10	1.17	100.0	22.0
Acute Non-Lymphocytic	1	0	0	0	1	7.1	16.7	0.94	0.00	0.00	0.00	0.22	0.28	100.0	4.7
Chronic Myeloid	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
LYMPHOMAS	0	0	1	0	1	7.1	100.0	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Hodgkin's Disease	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Non-Hodgkin lymphoma	0	0	1	0	1	7.1	100.0	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Burkitt's lymphoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Misc	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CNS NEOPLASMS	1	0	0	0	1	7.1	100.0	0.94	0.00	0.00	0.00	0.22	0.28	100.0	4.7
Ependymoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Astrocytoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
PNET	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Gliomas	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	1	0	0	0	1	7.1	100.0	0.94	0.00	0.00	0.00	0.22	0.28	100.0	4.7
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SNS TUMOURS	2	0	0	0	2	14.3	100.0	1.88	0.00	0.00	0.00	0.44	0.56	100.0	9.4
Neuroblastoma &															
Ganglioneuroblastoma	2	0	0	0	2	14.3	100.0	1.88	0.00	0.00	0.00	0.44	0.56	100.0	9.4
Others	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
RETINOBLASTOMA	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
RENAL TUMOURS	0	2	0	0	2	14.3	100.0	0.00	1.59	0.00	0.00	0.44	0.40	100.0	7.9
Wilms' tumour	0	2	0	0	2	14.3	100.0	0.00	1.59	0.00	0.00	0.44	0.40	100.0	7.9
Renal Carcinoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
HEPATIC TUMOURS	1	0	0	0	1	7.1	100.0	0.94	0.00	0.00	0.00	0.22	0.28	100.0	4.7
Hepatoblastoma	1	0	0	0	1	7.1	100.0	0.94	0.00	0.00	0.00	0.22	0.28	100.0	4.7
Hepatic Carcinoma	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0

Table 1.10 Number of cases, Relative Frequencies and Incidence Rates for INDIAN FEMALE Children in Singapore, 2003-2007 (Continue)

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
MALIGNANT BONE TUMOURS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Osteosarcoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Chondroblastoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Ewing's Sarcoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SOFT TISSUE SARCOMAS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Rhabdomyosarcoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Fibrosarcoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Kaposi's sarcoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
GERM CELL/GONADAL	0	0	1	0	1	7.1	100.0	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
CNS GCT	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Non-gonadal GCT	0	0	0	0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Gonadal GCT	0	0	1	0	1	7.1	100.0	0.00	0.00	0.85	0.00	0.22	0.19	100.0	4.2
Other & Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CARCINOMAS/EPITHELIAL NEOPLASMS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Adrenocortical	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Thyroid	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Nasopharyngeal	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Melanoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Skin	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other & Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
OTHER/UNSPECIFIED NEOPLASMS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Total	7	4	2	1	14	100.0	-	6.56	3.17	1.70	0.95	3.07	3.36	100.0	61.9

Table 1.11 Number of cases, Relative Frequencies and Incidence Rates for OTHER FEMALE Children in Singapore, 2003-2007

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
LEUKEMIA	0	0	0	0	3	60.0	-	1.88	0.79	0.00	0.00	0.66	0.76	100.0	13.3
Lymphoid	2	1	0	0	3	60.0	-	1.88	0.79	0.00	0.00	0.66	0.76	100.0	13.3
Acute Non-Lymphocytic	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Chronic Myeloid	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
LYMPHOMAS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Hodgkin's Disease	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Non-Hodgkin lymphoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Burkitt's lymphoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Misc	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CNS NEOPLASMS	0	1	0	0	1	20.0	-	0.00	0.79	0.00	0.00	0.22	0.20	100.0	4.0
Ependymoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Astrocytoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
PNET	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Gliomas	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	1	0	0	1	20.0	-	0.00	0.79	0.00	0.00	0.22	0.20	100.0	4.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SNS TUMOURS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Neuroblastoma &															
Ganglioneuroblastoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Others	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
RETINOBLASTOMA	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
RENAL TUMOURS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Wilms' tumour	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Renal Carcinoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
HEPATIC TUMOURS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Hepatoblastoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Hepatic Carcinoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0

Table 1.11 Number of cases, Relative Frequencies and Incidence Rates for OTHER FEMALE Children in Singapore, 2003-2007 (Continue)

Absolute Counts	No. of Cases					RF%	RF Grp%	Rates Per Million					ASR	%MV	CUM
	0-4	5-9	10-14	15-19	Total			0-4	5-9	10-14	15-19	CRUDE			
MALIGNANT BONE TUMOURS	0	1	0	0	1	20.0	-	0.00	0.79	0.00	0.00	0.22	0.20	100.0	4.0
Osteosarcoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Chondroblastoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Ewing's Sarcoma	0	1	0	0	1	20.0	-	0.00	0.79	0.00	0.00	0.22	0.20	100.0	4.0
Other Specified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
SOFT TISSUE SARCOMAS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Rhabdomyosarcoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Fibrosarcoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Kaposi's sarcoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
GERM CELL/GONADAL	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CNS GCT	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Non-gonadal GCT	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Gonadal GCT	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other & Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
CARCINOMAS/EPITHELIAL NEOPLASMS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Adrenocortical	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Thyroid	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Nasopharyngeal	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Melanoma	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Skin	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other & Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
OTHER/UNSPECIFIED NEOPLASMS	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Specified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Other Unspecified	0	0	0	0	0	0.0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Total	0	2	0	0	5	100.0	-	1.88	2.38	0.00	0.00	1.10	1.16	100.0	21.3

Table 2. Leukemia: Number of cases by age by diagnostic group, 2003-2007

Diagnostic Group	Age (By years)																			Total	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		19
Lymphoid	1	6	24	20	21	14	9	10	10	6	5	6	5	5	2	2	2	0	1	0	149
Acute Non-Lymphocytic	3	3	4	2	1	1	0	4	1	1	1	0	0	0	1	2	0	0	0	0	24
Chronic Myeloid	0	0	0	1	0	0	0	0	1	0	0	1	1	3	0	0	1	0	1	0	9
Other Specified	0	1	1	0	0	0	0	1	0	1	2	0	0	0	0	0	0	0	0	0	6
Unspecified	0	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	5
TOTAL																					193

Table 5. Sympathetic Nervous System Neoplasms: Number of cases by age by diagnostic group, 2003-2007

Diagnostic Group	Age (By years)																				Total
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
Neuroblastoma & Ganglioneuroblastoma	2	7	3	3	1	1	2	0	2	1	0	0	0	0	0	0	1	0	0	0	23
Others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL																					23

Table 8. Hepatic Neoplasms: Number of cases by age by diagnostic group, 2003-2007

Diagnostic Group	Age (By years)																				Total
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
Hepatoblastoma	0	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Hepatic Carcinoma	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	3
Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL																					9

Table 9. Bone Neoplasms: Number of cases by age by diagnostic group, 2003-2007

Diagnostic Group	Age (By years)																				Total
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
Osteosarcoma	0	0	0	0	0	0	3	0	1	1	0	1	1	4	3	0	3	1	0	0	18
Chondroblastoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ewing's Sarcoma	1	0	0	0	0	1	1	0	0	0	0	3	0	0	0	0	0	0	0	0	6
Other Specified	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	2
Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL																					26

Table 10. Soft Tissue Sarcomas: Number of cases by age by diagnostic group, 2003-2007

Diagnostic Group	Age (By years)																				Total
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
Rhabdomyosarcoma	2	1	0	1	0	0	0	0	1	2	0	0	2	0	0	0	0	1	0	0	10
Fibrosarcoma	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	2
Kaposi's Sarcoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Specified	0	0	1	0	0	0	1	0	1	0	0	0	0	1	0	1	0	0	0	0	5
Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL																					17

Table 12.Carcinoma, Other Malignant Neoplasms: Number of Cases by Age by Diagnostic Group, 2003-2007

Diagnostic Group	Age (By years)																				Total
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
Adrenocortical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thyroid	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
Nasopharyngeal	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0
Melanoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other & Unspecified	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	1	0	0	0	0	0
TOTAL																					9

Table 14. Number of Singaporean Cases by Hospital, 2003-2007

DIAGNOSIS	No of Cases - KKH	No of Cases - NUH	Total of Each Category
LEUKEMIA			
Lymphoid	109	40	193
Acute Non-Lymphocytic	18	6	
Chronic Myeloid	5	4	
Other Specified	5	1	
Unspecified	2	3	
LYMPHOMAS			
Hodgkin's Disease	4	2	44
Non-Hodgkin Lymphoma	21	8	
Burkitt's Lymphoma	3	5	
Misc	0	1	
Unspecified	0	0	
CNS NEOPLASMS			
Ependymoma	6	2	62
Astrocytoma	16	5	
PNET	16	3	
Other Gliomas	2	4	
Other Specified	7	1	
Unspecified	0	0	
SNS TUMOURS			
Neuroblastoma & Ganglioneuroblastoma	16	7	23
Others	0	0	
RETINOBLASTOMA	14	0	14
RENAL TUMOURS			
Wilm's tumour	8	1	10
Renal Carcinoma	0	1	
Unspecified	0	0	
HEPATIC TUMORS			
Hepatoblastoma	5	1	9
Hepatic Carcinoma	3	0	
Unspecified	0	0	
MALIGNANT BONE TUMOURS			
Osteosarcoma	9	9	26
Chondroblastoma	0	0	
Ewing's Sarcoma	4	2	
Other Specified	1	1	
Unspecified	0	0	
SOFT TISSUE SARCOMAS			
Rhabdomyosarcoma	6	4	17
Fibrosarcoma	2	0	
Kaposi's Sarcoma	0	0	
Other Specified	3	2	
Unspecified	0	0	
NEOPLASMS			
CNS GCT	10	5	31
Other Non-gonadal GCT	3	1	
Gonadal GCT	8	4	
Other & Unspecified	0	0	
CARCINOMAS/ EPITHELIAL NEOPLASMS			
Adrenocortical	0	0	9
Thyroid	1	1	
Nasopharyngeal	2	1	
Melanoma	0	0	
Skin	0	0	
Other & Unspecified	4	0	
OTHER/ UNSPECIFIED NEOPLASMS			
Other Specified	0	0	0
Other Unspecified	0	0	
TOTAL			438

Table 15: 10 Most Frequent Childhood Cancers in Singapore, 2003-2007

Ranking	Type of Cancer	No. of Cases
1	Leukaemia	193
2	CNS Neoplasms	62
3	Lymphomas	44
4	Germ cell/ Gonadal neoplasms	31
5	Malignant bone tumours	26
6	SNS tumours	23
7	Soft-tissue sarcomas	17
8	Retinoblastoma	14
9	Renal tumours	10
10	Hepatic tumours	9
	Carcinomas/ Epithelial neoplasms	9

Fig 1: Top Ten Most Frequent Childhood Cancers in Singapore, 2003-2007

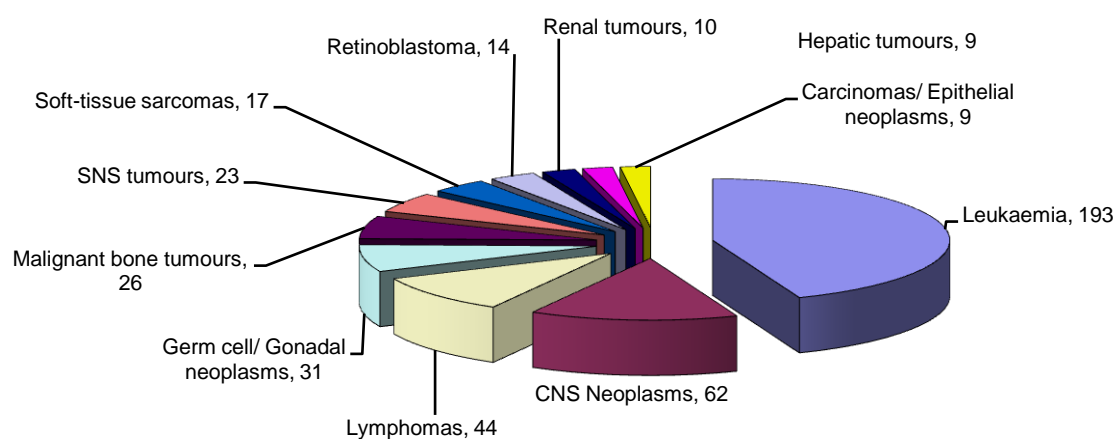


Table 16. Number of Childhood Cancers in Singapore by Gender, 2003-2007

Gender	All Cancers	Solid Tumours	Leukemias
Male	236	136	100
Female	202	109	93
M/ F	1.17	1.25	1.08
TOTAL	438	245	193

Fig 2: Number of Childhood Cancers in Singapore by Gender, 2003-2007

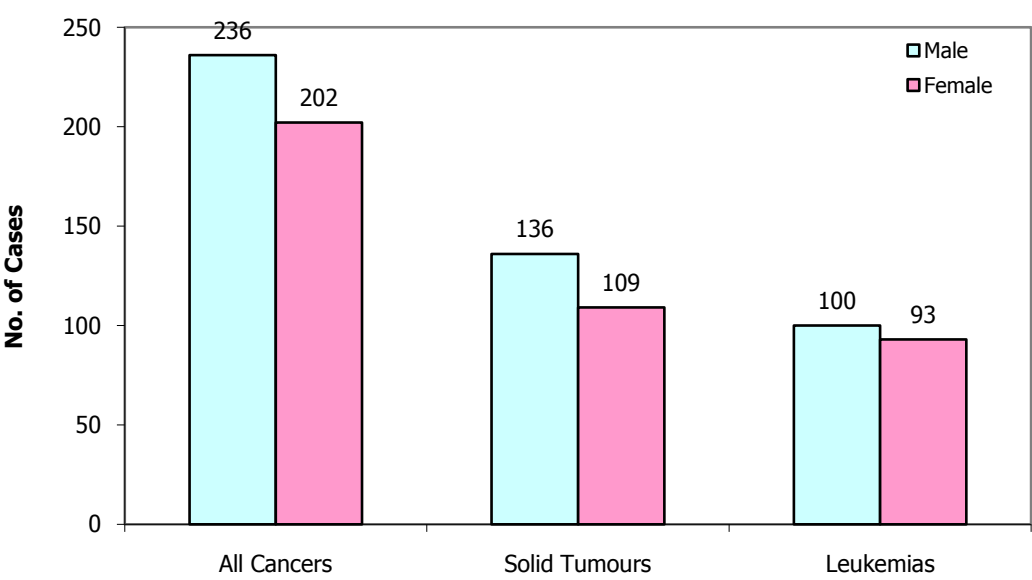


Table 17. Relative Frequency of Different Ethnic Groups by Local and Cancer Population

Different Ethnic Groups	Total Local Population	% RF	Total Local Cancer Population	% RF
Chinese	647604	71.0	317	72.4
Malay	170816	18.7	71	16.2
Indian	79143	8.7	39	8.9
Others	14555	1.6	11	2.5
TOTAL	912118	100.0	438	100.0

Fig 3: Comparison of %RF for Different Ethnic Groups by Local and Cancer Population

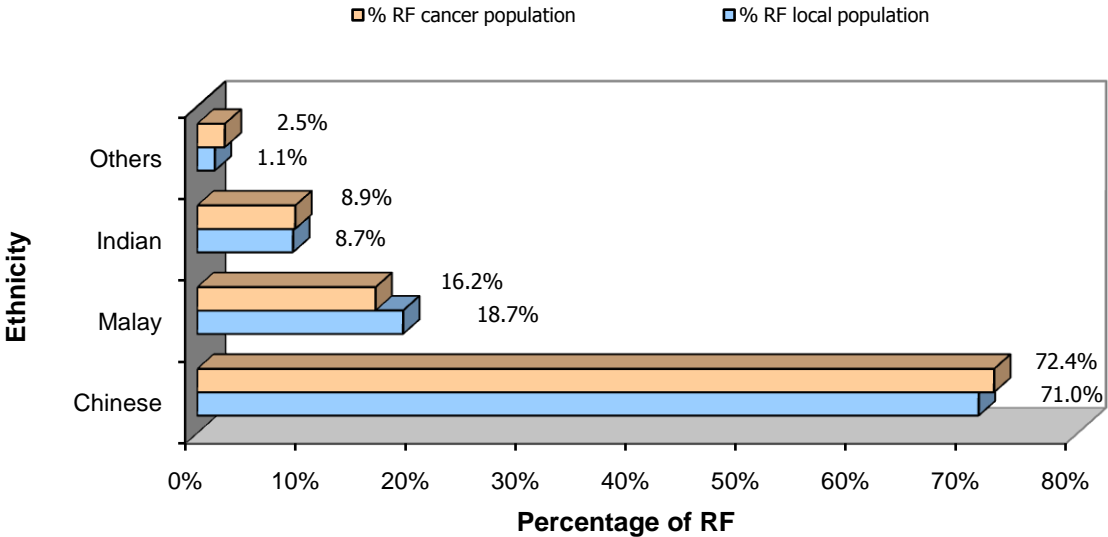


Table 18. Relative Frequency of Major Diagnostic Groups

Type of Cancer	No. of Cases	% RF
Leukaemia	193	44.1
Lymphomas	44	10.0
CNS Neoplasms	62	14.2
SNS tumours	23	5.3
Retinoblastoma	14	3.2
Renal tumours	10	2.3
Hepatic tumours	9	2.1
Malignant bone tumours	26	5.9
Soft-tissue sarcomas	17	3.9
Germ cell/ Gonadal neoplasms	31	7.1
Carcinomas/ Epithelial neoplasms	9	2.1
Other/ Unspecified neoplasms	0	0.0
TOTAL	438	100

Fig 4: Relative Frequency of Major Diagnostic Groups in Singapore, 2003-2007

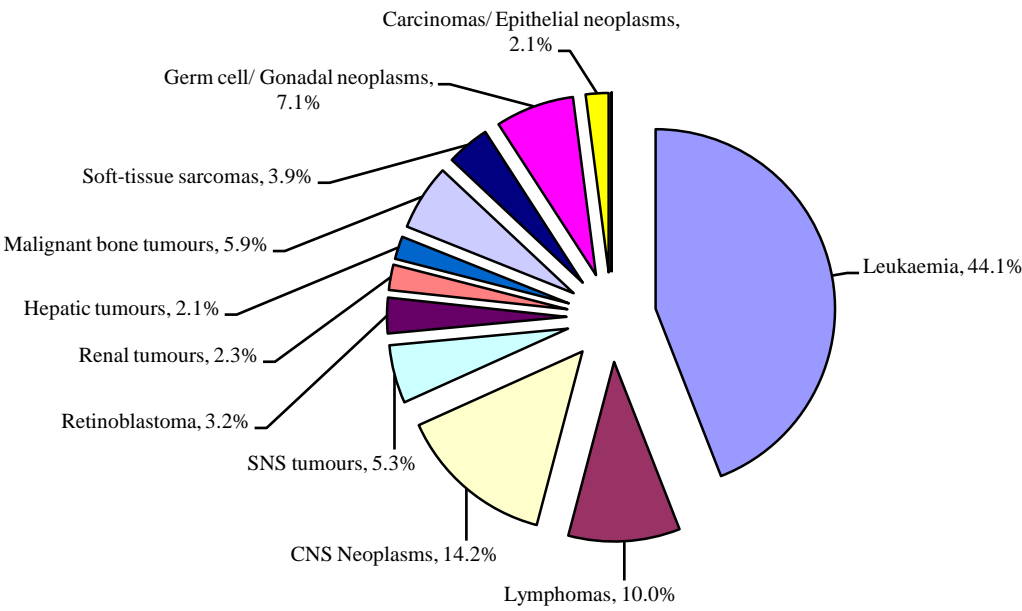


Table 19. Relative Frequency of Solid Tumours in Singapore, 2003-2007

Subtype of Solid Tumours	No. of Cases	% RF
CNS Neoplasms	62	25.3%
Lymphomas	44	18.0%
Germ cell/ Gonadal neoplasms	31	12.7%
SNS tumours	23	9.4%
Malignant bone tumours	26	10.6%
Soft-tissue sarcomas	17	6.9%
Retinoblastoma	14	5.7%
Renal Tumours	10	4.1%
Hepatic tumours	9	3.7%
Carcinomas/ Epithelial neoplasms	9	3.7%
Other/ Unspecified neoplasms	0	0.0%
TOTAL	245	100%

Fig 5: Relative Frequency of Solid Tumours in Singapore, 2003-2007

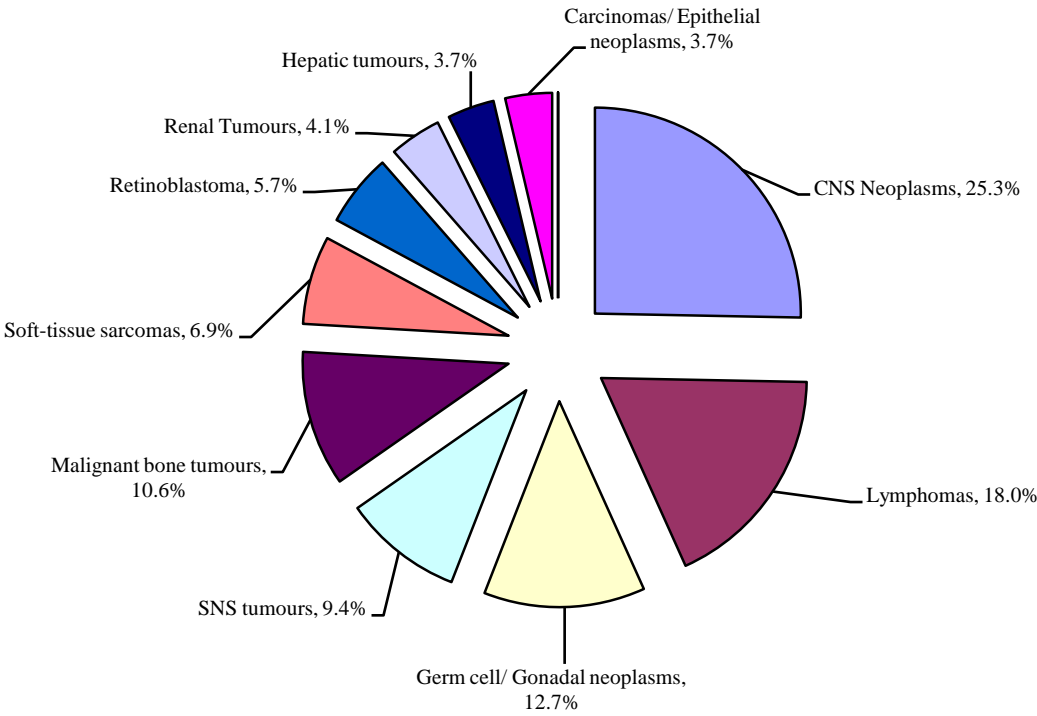


Table 20. Relative Frequency of Leukemias in Singapore by Morphological Types, 2003-2007

Morphologic Subtypes	No. of Cases	% RF
Lymphoid	149	77.2%
Acute Myeloid	24	12.4%
Chronic Myeloid	9	4.7%
Other Specified	6	3.1%
Unspecified	5	2.6%
TOTAL	193	100%

Fig 6: Relative Frequency of Leukemias in Singapore by Morphological Types, 2003-2007

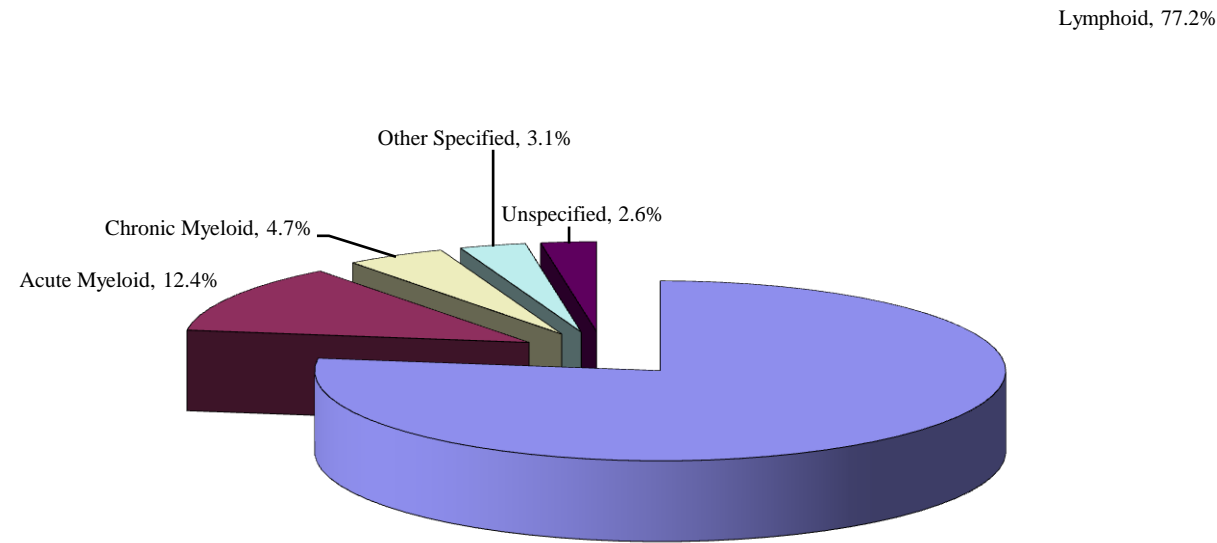


Fig 7: Singapore Childhood Leukemia, 2003-2007, Age Distribution

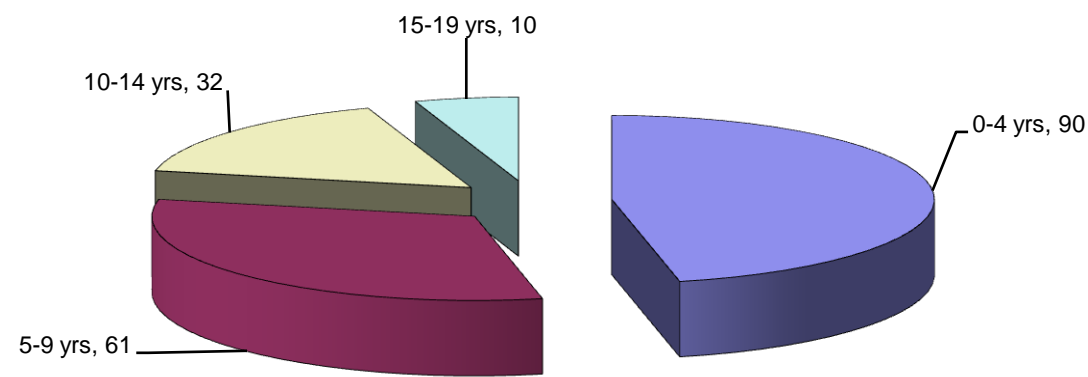


Table 21. Relative Frequency of Lymphomas, 2003-2007

Lymphomas	No. of Cases	%RF
Hodgkin's Disease	6	13.6%
Non-Hodgkin lymphoma	29	65.9%
Burkitt's lymphoma	8	18.2%
Misc	1	2.3%
Unspecified	0	0.0%
TOTAL	44	100%

Fig 8: Singapore Childhood Lymphomas, 2003-2007

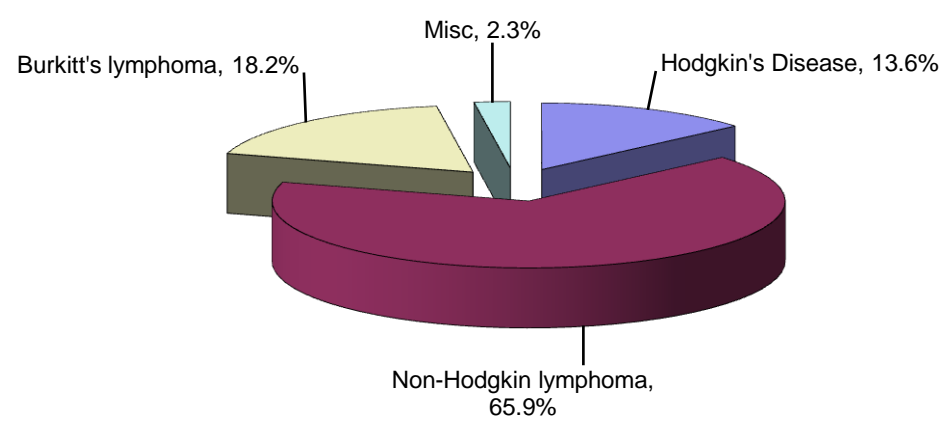


Fig 9: Singapore Childhood Lymphomas, 2003-2007, Age Distribution

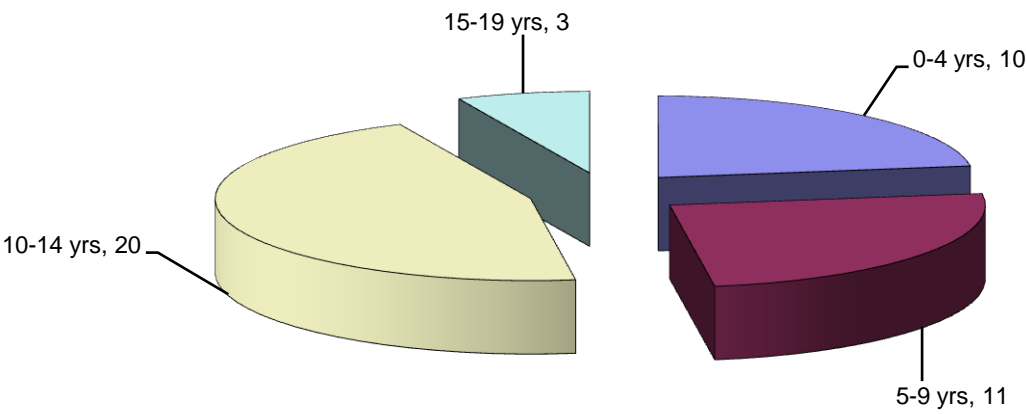


Table 22. Relative Frequency of CNS Neoplasms, 2003-2007

CNS NEOPLASMS	No. of Cases	%RF
Ependymoma	8	12.9%
Astrocytoma	21	33.9%
PNET	19	30.6%
Other Gliomas	6	9.7%
Other Specified	8	12.9%
Unspecified	0	0.0%
TOTAL	62	100%

Fig 10: Singapore Childhood CNS Neoplasms, 2003-2007

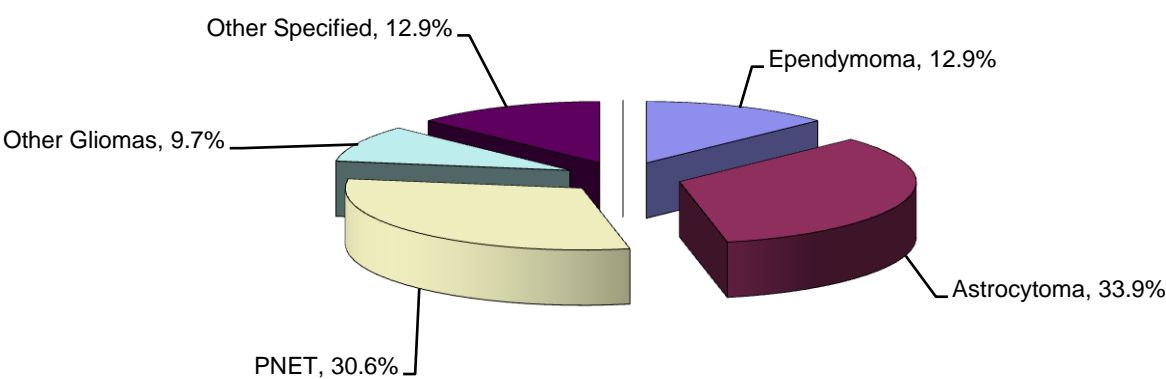


Fig 11: Singapore Childhood CNS Neoplasms, 2003-2007, Age Distribution

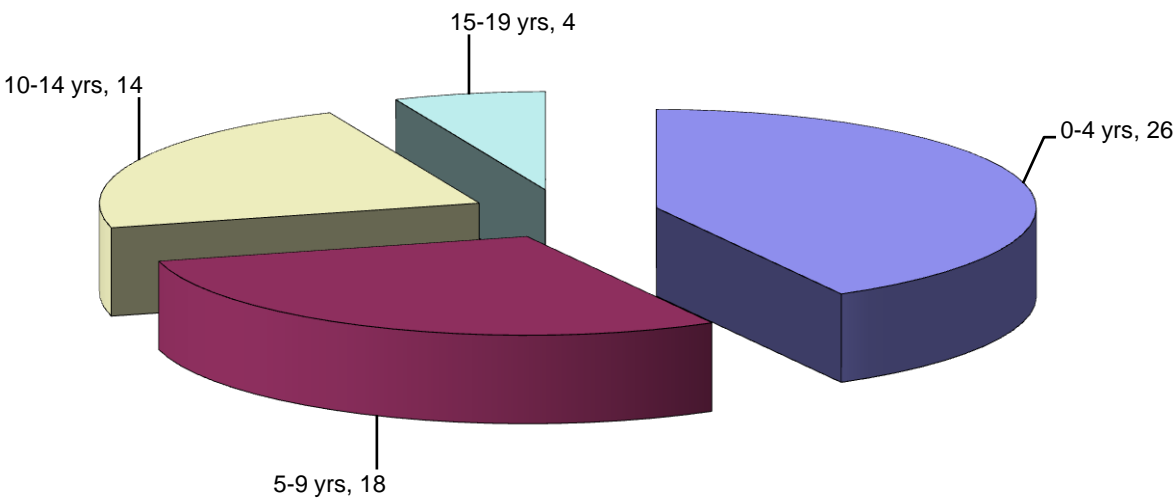


Table 23. Relative Frequency of CNS Neoplasms, 2003-2007

CNS NEOPLASMS	No. of Cases	%RF
Ganglioneuroblastoma	2	8.7%
Neuroblastoma	21	91.3%
TOTAL	23	100.0%

Fig 12: Singapore Childhood Neuroblastoma, 2003-2007, Age Distribution

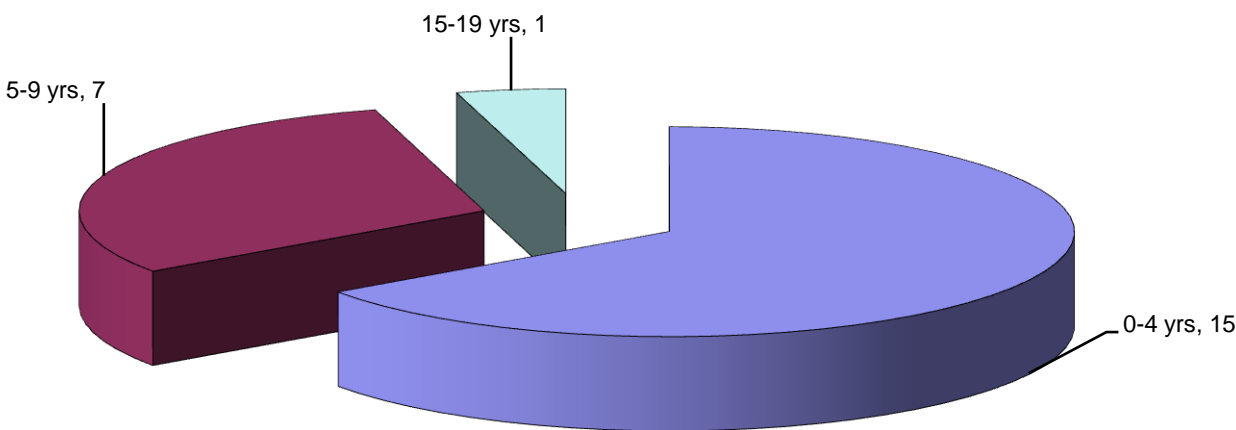


Fig 13: Singapore Childhood Neuroblastoma by Morphological Subtypes, 2003-2007

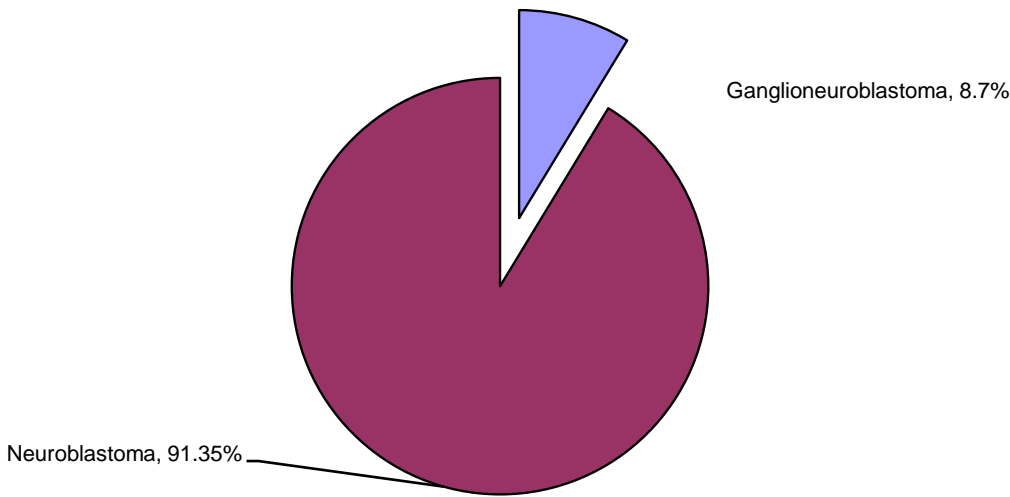


Fig 14: Singapore Childhood Neuroblastoma by Primary Diagnosed Sites, 2003-2007

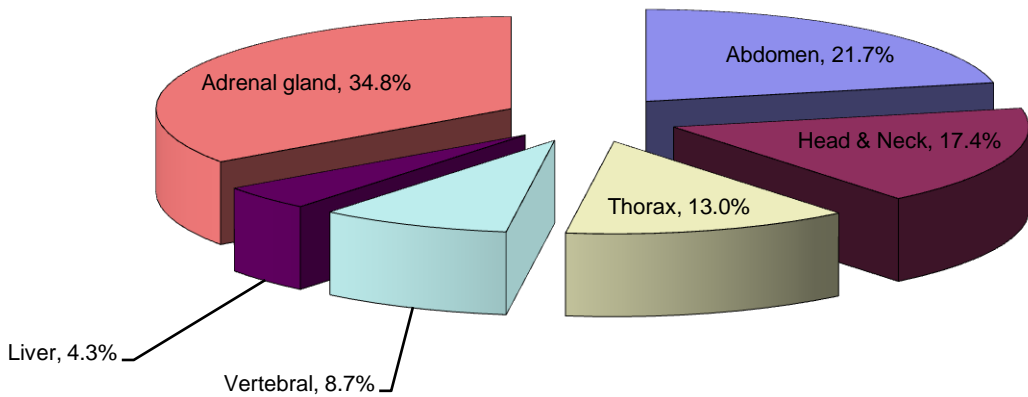


Table 24. Singapore Childhood Retinoblastoma by Age Group and Tumour Site, 2003-2007

Site \ Age	0	1	2	3	4	TOTAL
Unilateral	2	4	3	1	0	10
Bilateral	2	1	1	0	0	4
Unspecified	0	0	0	0	0	0
TOTAL	4	5	4	1	0	14

Fig 15: Singapore Childhood Retinoblastoma, 2003-2007, Age Distribution

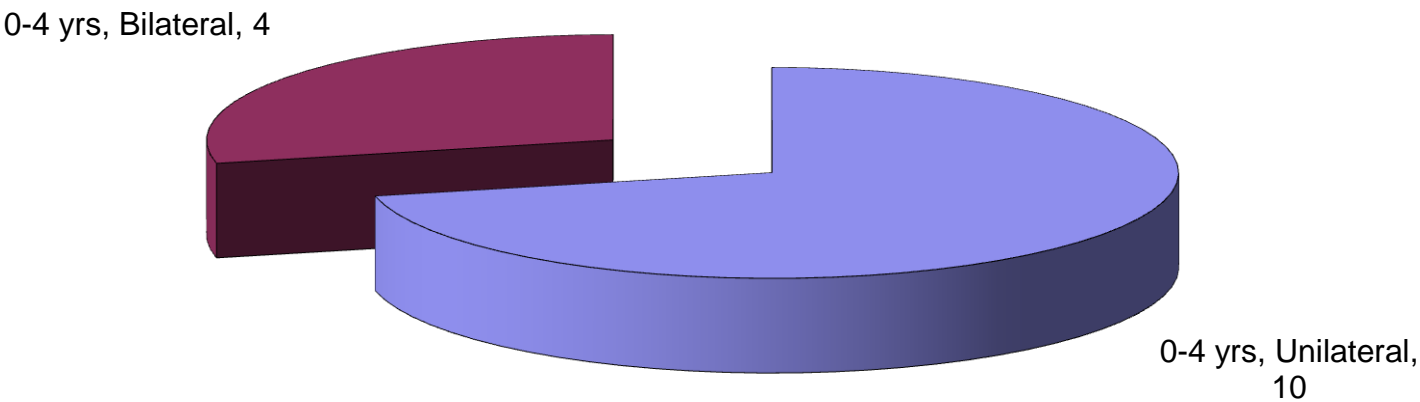


Fig 16: Singapore Childhood Retinoblastoma by Site distribution by Age, 2003-2007

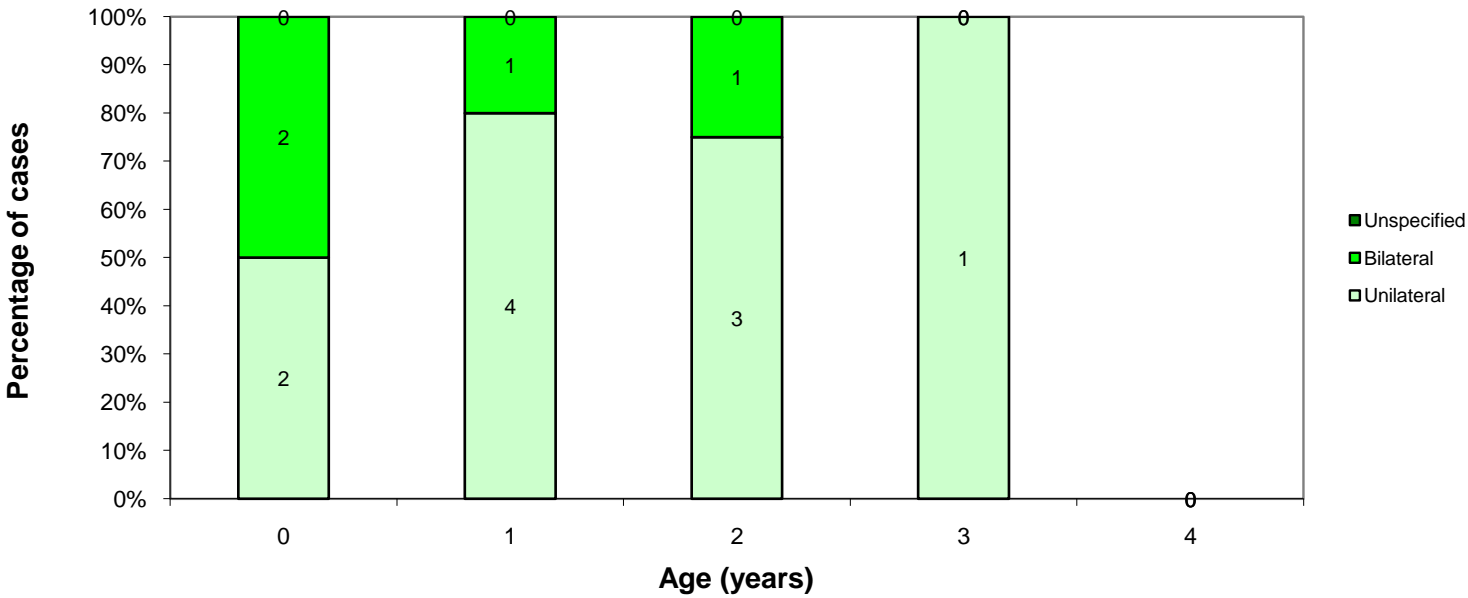


Table 25. Relative Frequency of Renal Neoplasms, 2003-2007

Renal Neoplasms	No. of Cases	%RF
Wilms' tumour	9	90.0%
Renal Carcinoma	1	10.0%
Unspecified	0	0.0%
TOTAL	10	100%

Fig 17: Singapore Childhood Renal Neoplasms by Morphological Types, 2003-2007

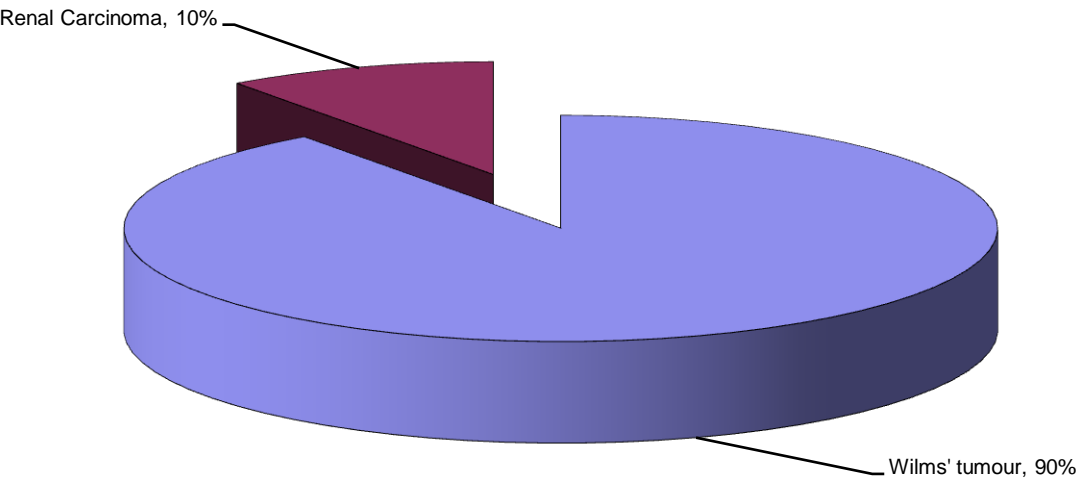


Fig 18: Singapore Childhood Renal Neoplasms, 2003-2007, Age Distribution

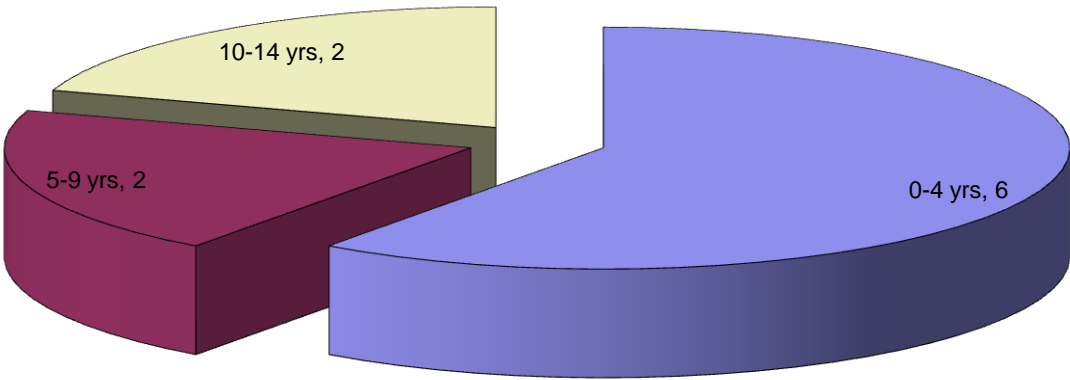


Table 26. Relative Frequency of Hepatic Neoplasms, 2003-2007

Hepatic Neoplasms	No. of Cases	%RF
Hepatoblastoma	6	66.7%
Hepatic Carcinoma	3	33.3%
Unspecified	0	0.0%
TOTAL	9	100%

Fig 19: Singapore Childhood Hepatic Neoplasms by Morphological Types, 2003-2007

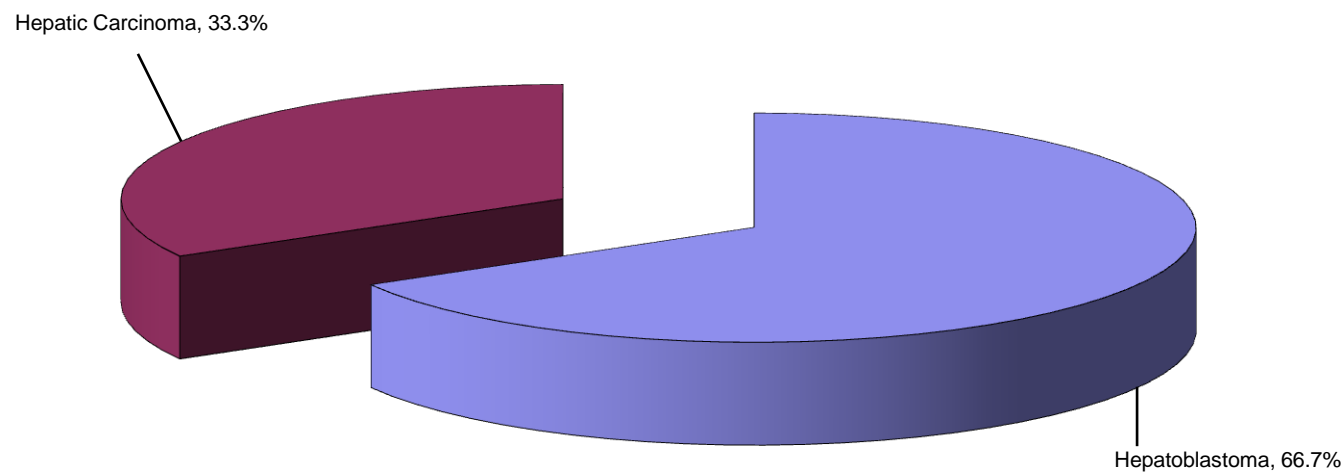


Fig 20: Singapore Childhood Hepatic Neoplasms, 2003-2007, Age Distribution

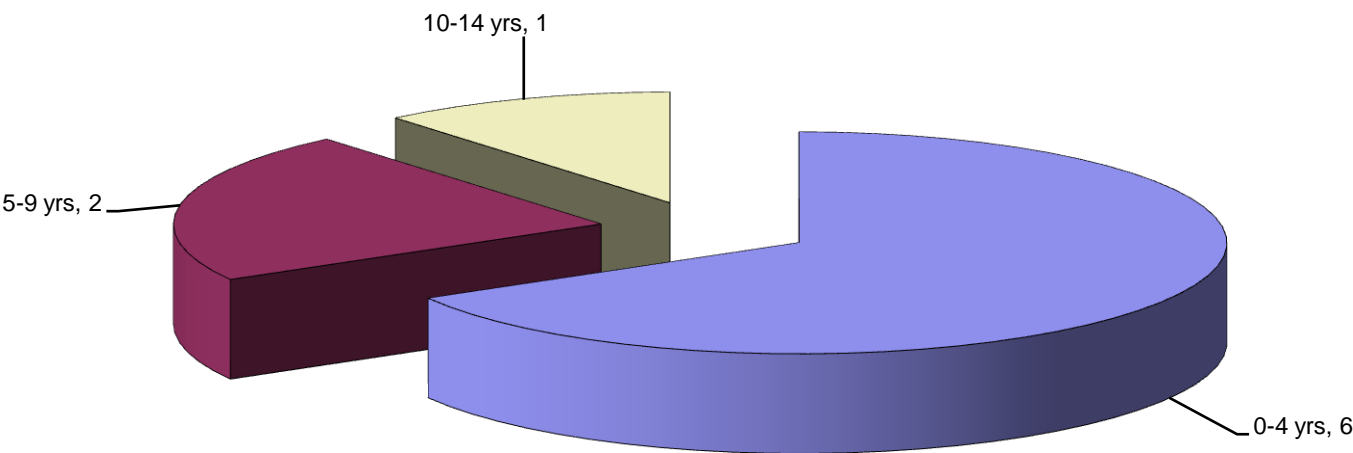


Table 27. Relative Frequency of Bone Neoplasms, 2003-2007

Malignant Bone Tumours	No. of Cases	%RF
Osteosarcoma	18	69.2%
Chondroblastoma	0	0.0%
Ewing's Sarcoma	6	23.1%
Other Specified	2	7.7%
Unspecified	0	0.0%
TOTAL	26	100%

Fig 21: Singapore Childhood Bone Neoplasms, 2003-2007, Age Distribution

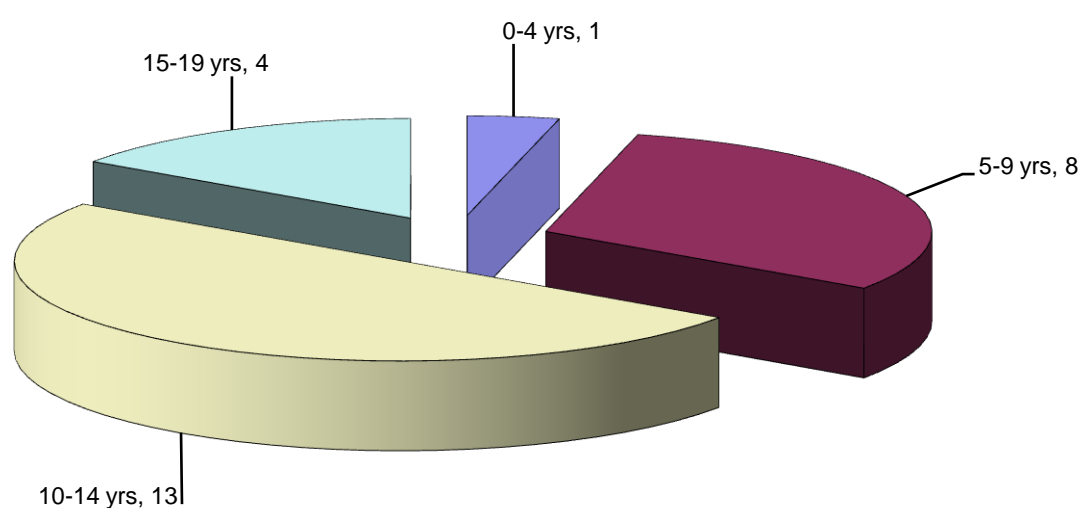


Fig 22: Singapore Childhood Bone Neoplasms by Morphological Types, 2003-2007

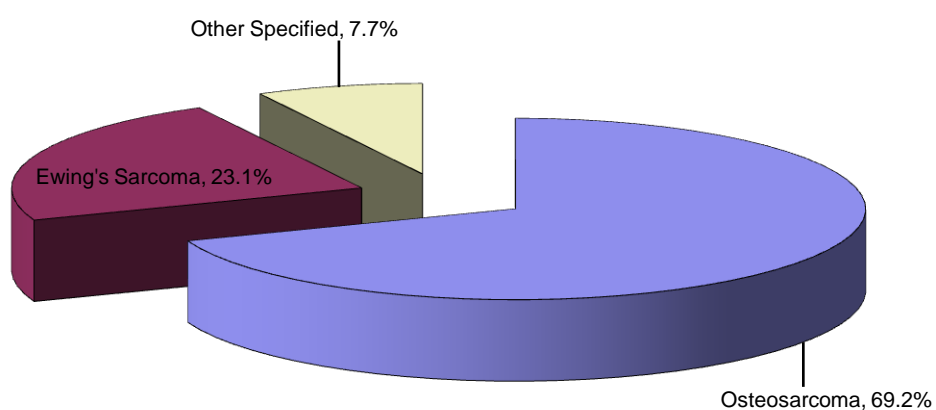


Fig 23: Singapore Childhood Osteosarcoma by Primary Diagnosed Site, 2003-2007

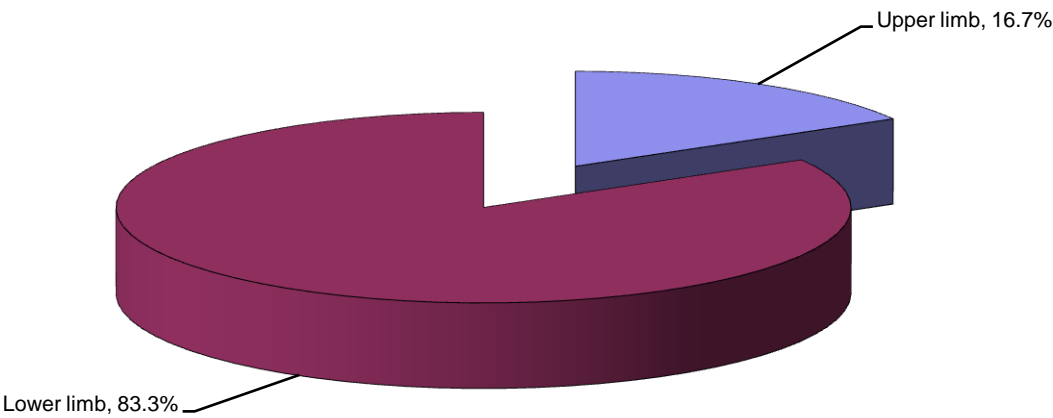


Fig 24: Singapore Childhood Ewing's Sarcoma by Primary Diagnosed Site, 2003-2007

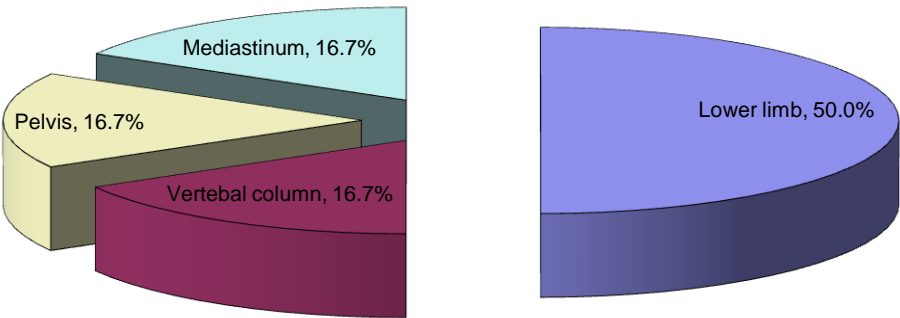


Table 28. Relative Frequency of Soft Tissue Sarcoma, 2003-2007

Malignant Bone Tumours	No. of Cases	%RF
Rhabdomyosarcoma	10	58.8%
Fibrosarcoma	2	11.8%
Kaposi's Sarcoma	0	0.0%
Other Specified	5	29.4%
Unspecified	0	0.0%
TOTAL	17	100%

Fig 25: Singapore Childhood Soft Tissue Sarcoma, 2003-2007, Age Distribution

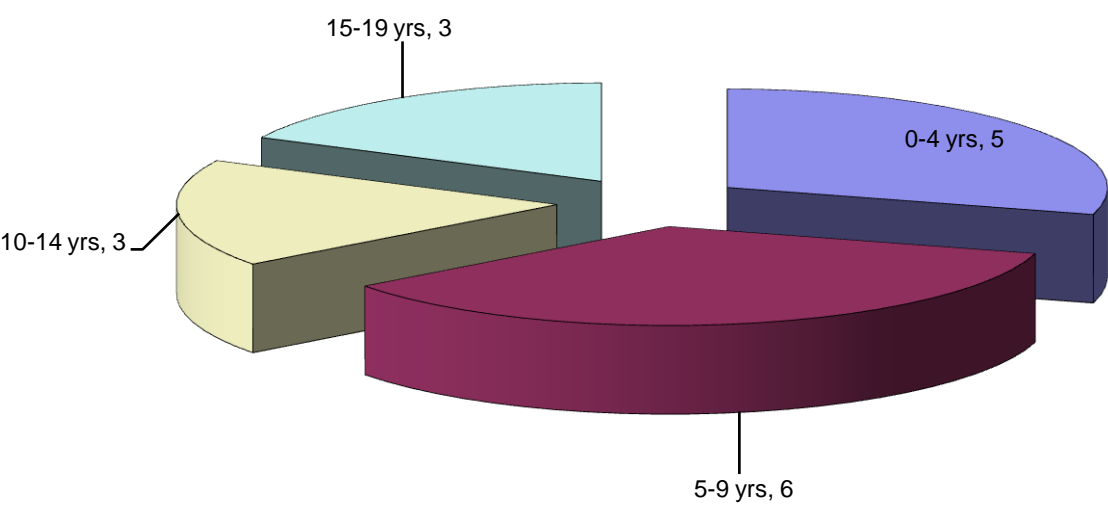


Fig 26: Singapore Childhood Soft Tissue Sarcoma by Morphological Types, 2003- 2007

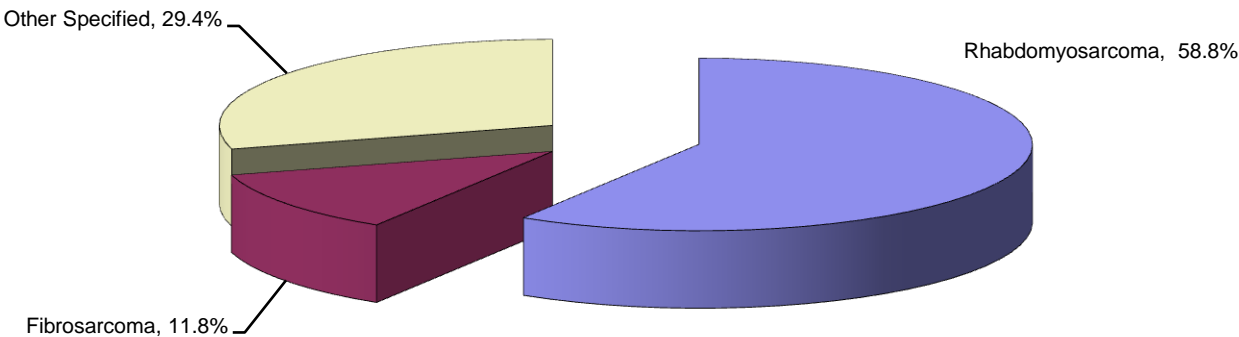


Fig 27: Singapore Childhood Rhabdomyosarcoma by Primary Diagnosed Site, 2003-2007

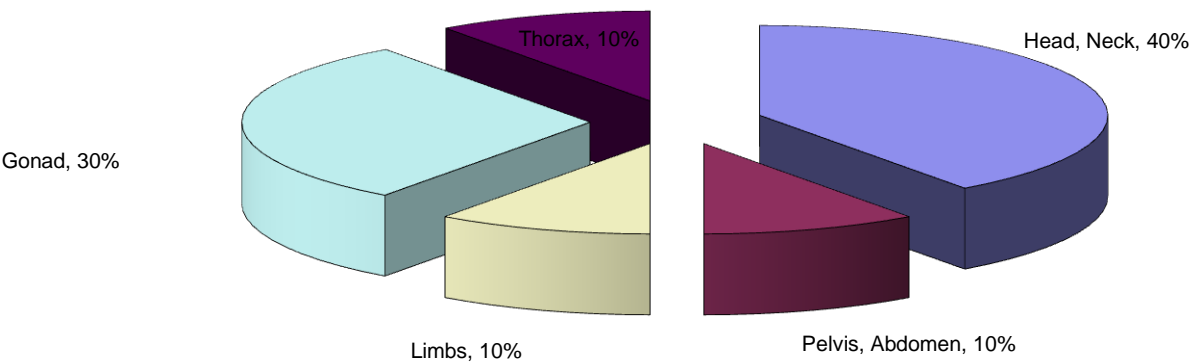


Table 29. Relative Frequency of Gonadal/ Germ Cell Tumour, 2003-2007

Gonadal/ Germ Cell Tumour	No. of Cases	%RF
CNS GCT	15	48.4%
Other Non-gonadal GCT	4	12.9%
Gonadal GCT	12	38.7%
Other & Unspecified	0	0.0%
TOTAL	31	100%

Fig 28: Singapore Childhood Gonadal/ Germ Cell Tumour by Morphological Types, 2003-2007

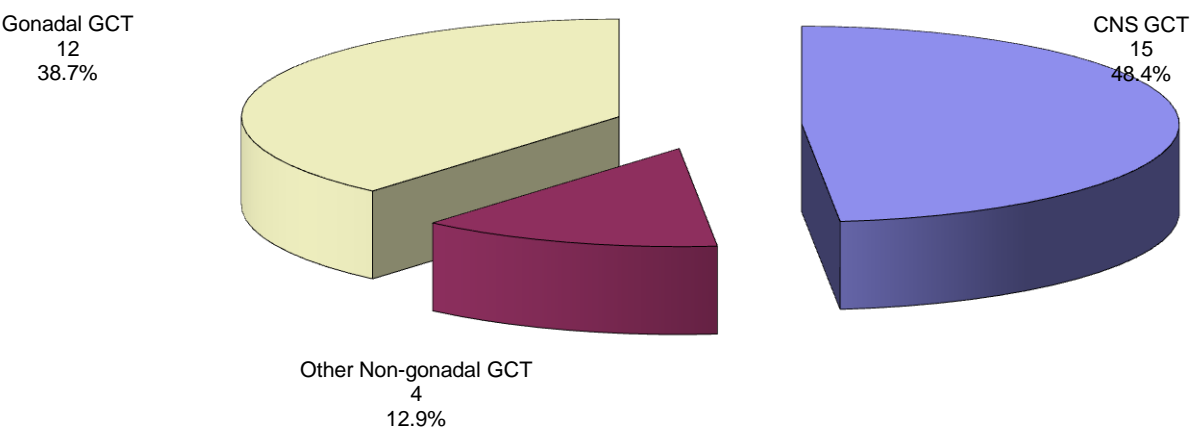


Fig 29: Singapore Childhood Gonadal/ Germ Cell Tumour, 2003-2007, Age Distribution

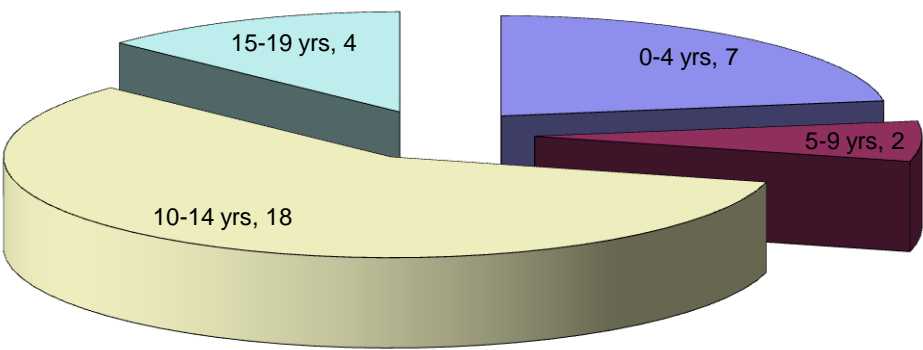


Table 30. Relative Frequency of Carcinomas/ Epithelial Neoplasms, 2003-2007

Carcinomas/ Epithelial Neoplasms	No. of Cases	%RF
Adrenocortical	0	0.0%
Thyroid	2	22.2%
Nasopharyngeal	3	33.3%
Melanoma	0	0.0%
Skin	0	0.0%
Other & Unspecified	4	44.4%
TOTAL	9	100%

Fig 30: Singapore Childhood Carcinomas/ Epithelial Neoplasms by Morphological Types, 2003-2007

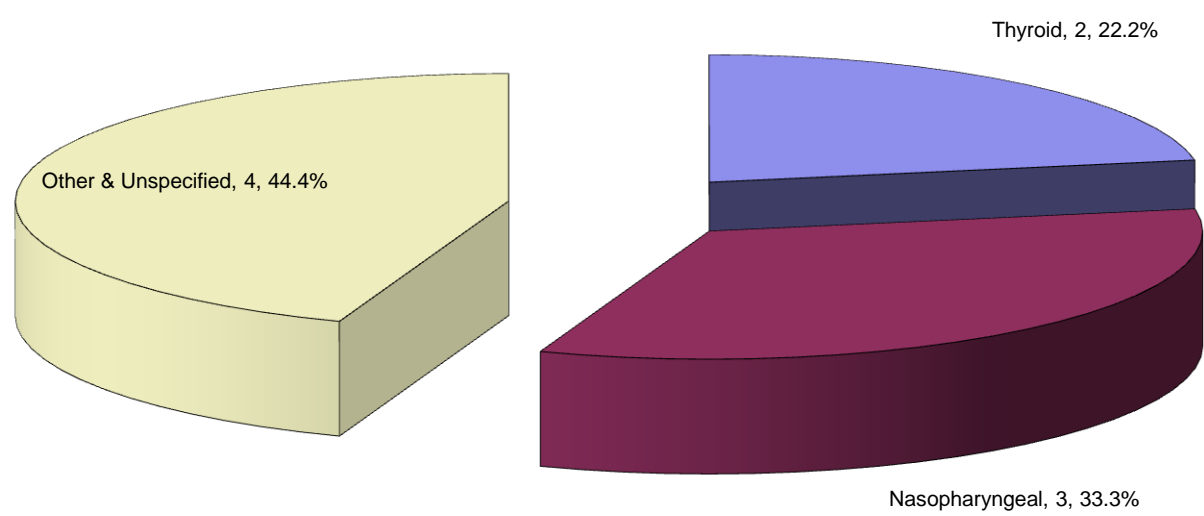


Fig 31: OS of Childhood Cancer in Singapore (KKH & NUH), 2003-2007

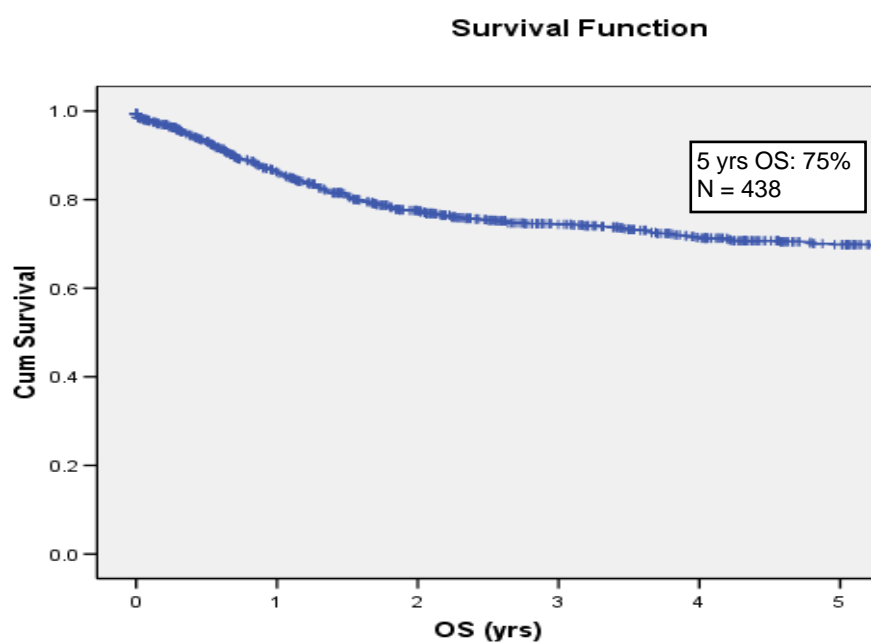


Fig 32: EFS of Childhood Cancer in Singapore (KKH & NUH), 2003-2007

