

**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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## **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         |
| <b>MALIGNANT BONE TUMOURS</b>      | <b>1</b>     | <b>8</b>   | <b>13</b>  | <b>4</b>  | <b>26</b>  | <b>16</b>  | <b>10</b>  | <b>1.6</b> | <b>5.9</b>   | <b>100.0</b> | <b>0.94</b>       | <b>6.35</b>  | <b>11.04</b> | <b>3.79</b>  | <b>5.70</b>  | <b>5.20</b>   | <b>100.0</b> | <b>110.6</b>  |
| 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           |
| <b>SOFT TISSUE SARCOMAS</b>        | <b>5</b>     | <b>6</b>   | <b>3</b>   | <b>3</b>  | <b>17</b>  | <b>11</b>  | <b>6</b>   | <b>1.8</b> | <b>3.9</b>   | <b>100.0</b> | <b>4.69</b>       | <b>4.76</b>  | <b>2.55</b>  | <b>2.84</b>  | <b>3.73</b>  | <b>3.81</b>   | <b>100.0</b> | <b>74.2</b>   |
| 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           |
| <b>GERM CELL/GONADAL</b>           | <b>7</b>     | <b>2</b>   | <b>18</b>  | <b>4</b>  | <b>31</b>  | <b>16</b>  | <b>15</b>  | <b>1.1</b> | <b>7.1</b>   | <b>100.0</b> | <b>6.56</b>       | <b>1.59</b>  | <b>15.29</b> | <b>3.79</b>  | <b>6.80</b>  | <b>6.66</b>   | <b>91.1</b>  | <b>136.1</b>  |
| 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           |
| <b>CARCINOMAS/EPITHELIAL</b>       | <b>0</b>     | <b>1</b>   | <b>6</b>   | <b>2</b>  | <b>9</b>   | <b>4</b>   | <b>5</b>   | <b>0.8</b> | <b>2.1</b>   | <b>100.0</b> | <b>0.00</b>       | <b>0.79</b>  | <b>5.10</b>  | <b>1.89</b>  | <b>1.97</b>  | <b>1.77</b>   | <b>100.0</b> | <b>38.9</b>   |
| 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          |
| <b>OTHER/UNSPECIFIED NEOPLASMS</b> | <b>0</b>     | <b>0</b>   | <b>0</b>   | <b>0</b>  | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>-</b>   | <b>0.0</b>   | <b>-</b>     | <b>0.00</b>       | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>   | <b>0.0</b>   | <b>0.0</b>    |
| 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           |
| <b>Total</b>                       | <b>180</b>   | <b>118</b> | <b>109</b> | <b>31</b> | <b>438</b> | <b>236</b> | <b>202</b> | <b>1.2</b> | <b>100.0</b> | <b>-</b>     | <b>169.73</b>     | <b>92.83</b> | <b>92.59</b> | <b>29.34</b> | <b>96.04</b> | <b>101.56</b> | <b>97.1</b>  | <b>1854.6</b> |



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        |              |              |               |
| <b>MALIGNANT BONE TUMOURS</b>          | <b>1</b>     | <b>5</b>  | <b>7</b>  | <b>3</b>  | <b>16</b>  | <b>6.8</b>   | <b>100.0</b> | <b>0.94</b>       | <b>3.97</b>  | <b>5.95</b>  | <b>2.84</b>  | <b>3.51</b>  | <b>3.25</b>  | <b>100.0</b> | <b>68.5</b>   |
| 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           |
| <b>SOFT TISSUE SARCOMAS</b>            | <b>3</b>     | <b>4</b>  | <b>2</b>  | <b>2</b>  | <b>11</b>  | <b>4.7</b>   | <b>100.0</b> | <b>2.81</b>       | <b>3.17</b>  | <b>1.70</b>  | <b>1.89</b>  | <b>2.41</b>  | <b>2.45</b>  | <b>100.0</b> | <b>47.9</b>   |
| 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           |
| <b>GERM CELL/GONADAL</b>               | <b>5</b>     | <b>0</b>  | <b>10</b> | <b>1</b>  | <b>16</b>  | <b>6.8</b>   | <b>100.0</b> | <b>4.69</b>       | <b>0.00</b>  | <b>8.49</b>  | <b>0.95</b>  | <b>3.51</b>  | <b>3.53</b>  | <b>88.9</b>  | <b>70.6</b>   |
| 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           |
| <b>CARCINOMAS/EPITHELIAL NEOPLASMS</b> | <b>0</b>     | <b>1</b>  | <b>3</b>  | <b>0</b>  | <b>4</b>   | <b>1.7</b>   | <b>100.0</b> | <b>0.00</b>       | <b>0.79</b>  | <b>2.55</b>  | <b>0.00</b>  | <b>0.88</b>  | <b>0.77</b>  | <b>100.0</b> | <b>16.7</b>   |
| 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           |
| <b>OTHER/UNSPECIFIED NEOPLASMS</b>     | <b>0</b>     | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>   | <b>0.0</b>   | <b>0.00</b>  | <b>0.00</b>       | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.0</b>   | <b>0.0</b>    |
| 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           |
| <b>Total</b>                           | <b>105</b>   | <b>58</b> | <b>62</b> | <b>11</b> | <b>236</b> | <b>100.0</b> | <b>-</b>     | <b>98.46</b>      | <b>46.02</b> | <b>52.67</b> | <b>10.41</b> | <b>51.75</b> | <b>55.24</b> | <b>98.2</b>  | <b>1037.8</b> |



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        |
| <b>MALIGNANT BONE TUMOURS</b>          | <b>0</b>     | <b>5</b>  | <b>4</b>  | <b>3</b>  | <b>12</b>  | <b>7.2</b>   | <b>100.0</b> | <b>0.00</b>       | <b>3.97</b>  | <b>3.40</b>  | <b>2.84</b> | <b>2.63</b>  | <b>2.40</b>  | <b>100.0</b> | <b>41.6</b>  |
| 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          |
| <b>SOFT TISSUE SARCOMAS</b>            | <b>2</b>     | <b>2</b>  | <b>0</b>  | <b>2</b>  | <b>6</b>   | <b>3.6</b>   | <b>100.0</b> | <b>1.88</b>       | <b>1.59</b>  | <b>0.00</b>  | <b>1.89</b> | <b>1.32</b>  | <b>1.39</b>  | <b>100.0</b> | <b>26.8</b>  |
| 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          |
| <b>GERM CELL/GONADAL</b>               | <b>5</b>     | <b>0</b>  | <b>6</b>  | <b>1</b>  | <b>12</b>  | <b>7.2</b>   | <b>100.0</b> | <b>4.69</b>       | <b>0.00</b>  | <b>5.10</b>  | <b>0.95</b> | <b>2.63</b>  | <b>2.77</b>  | <b>78.6</b>  | <b>53.7</b>  |
| 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          |
| <b>CARCINOMAS/EPITHELIAL NEOPLASMS</b> | <b>0</b>     | <b>1</b>  | <b>0</b>  | <b>0</b>  | <b>1</b>   | <b>0.6</b>   | <b>100.0</b> | <b>0.00</b>       | <b>0.79</b>  | <b>0.00</b>  | <b>0.00</b> | <b>0.22</b>  | <b>0.20</b>  | <b>100.0</b> | <b>4.0</b>   |
| 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          |
| <b>OTHER/UNSPECIFIED NEOPLASMS</b>     | <b>0</b>     | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>   | <b>0.0</b>   | <b>-</b>     | <b>0.00</b>       | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b>  | <b>0.0</b>   | <b>0.0</b>   |
| 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          |
| <b>Total</b>                           | <b>70</b>    | <b>47</b> | <b>42</b> | <b>10</b> | <b>167</b> | <b>100.0</b> | <b>-</b>     | <b>65.64</b>      | <b>36.50</b> | <b>34.83</b> | <b>9.46</b> | <b>36.62</b> | <b>38.22</b> | <b>84.9</b>  | <b>722.7</b> |



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       |             |              |              |
| <b>MALIGNANT BONE TUMOURS</b>          | <b>1</b>     | <b>0</b> | <b>1</b>  | <b>0</b> | <b>2</b>  | <b>5.3</b>   | <b>100.0</b> | <b>0.94</b>       | <b>0.00</b> | <b>0.85</b>  | <b>0.00</b> | <b>0.44</b> | <b>0.47</b> | <b>100.0</b> | <b>8.9</b>   |
| 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          |
| <b>SOFT TISSUE SARCOMAS</b>            | <b>1</b>     | <b>1</b> | <b>0</b>  | <b>0</b> | <b>2</b>  | <b>5.3</b>   | <b>100.0</b> | <b>0.94</b>       | <b>0.79</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.44</b> | <b>0.48</b> | <b>100.0</b> | <b>8.7</b>   |
| 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          |
| <b>GERM CELL/GONADAL</b>               | <b>0</b>     | <b>0</b> | <b>4</b>  | <b>0</b> | <b>4</b>  | <b>10.5</b>  | <b>100.0</b> | <b>0.00</b>       | <b>0.00</b> | <b>3.40</b>  | <b>0.00</b> | <b>0.88</b> | <b>0.76</b> | <b>100.0</b> | <b>17.0</b>  |
| 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          |
| <b>CARCINOMAS/EPITHELIAL NEOPLASMS</b> | <b>0</b>     | <b>0</b> | <b>2</b>  | <b>0</b> | <b>2</b>  | <b>5.3</b>   | <b>100.0</b> | <b>0.00</b>       | <b>0.00</b> | <b>1.70</b>  | <b>0.00</b> | <b>0.44</b> | <b>0.38</b> | <b>100.0</b> | <b>8.5</b>   |
| 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          |
| <b>OTHER/UNSPECIFIED NEOPLASMS</b>     | <b>0</b>     | <b>0</b> | <b>0</b>  | <b>0</b> | <b>0</b>  | <b>0.0</b>   | <b>-</b>     | <b>0.00</b>       | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.0</b>   | <b>0.0</b>   |
| 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          |
| <b>Total</b>                           | <b>19</b>    | <b>6</b> | <b>12</b> | <b>1</b> | <b>38</b> | <b>100.0</b> | <b>-</b>     | <b>17.82</b>      | <b>4.76</b> | <b>10.19</b> | <b>0.95</b> | <b>8.33</b> | <b>9.04</b> | <b>100.0</b> | <b>168.6</b> |



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        |
| <b>MALIGNANT BONE TUMOURS</b>          | <b>0</b>     | <b>0</b> | <b>2</b> | <b>0</b> | <b>2</b>  | <b>8.0</b>   | <b>100.0</b> | <b>0.00</b>       | <b>0.00</b> | <b>1.70</b> | <b>0.00</b> | <b>0.44</b> | <b>0.38</b> | <b>100.0</b> | <b>8.5</b>   |
| 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          |
| <b>SOFT TISSUE SARCOMAS</b>            | <b>0</b>     | <b>1</b> | <b>2</b> | <b>0</b> | <b>3</b>  | <b>12.0</b>  | <b>100.0</b> | <b>0.00</b>       | <b>0.79</b> | <b>1.70</b> | <b>0.00</b> | <b>0.66</b> | <b>0.58</b> | <b>100.0</b> | <b>12.5</b>  |
| 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          |
| <b>GERM CELL/GONADAL</b>               | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0.0</b>   | <b>-</b>     | <b>0.00</b>       | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.0</b>   | <b>0.0</b>   |
| 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          |
| <b>CARCINOMAS/EPITHELIAL NEOPLASMS</b> | <b>0</b>     | <b>0</b> | <b>1</b> | <b>0</b> | <b>1</b>  | <b>4.0</b>   | <b>100.0</b> | <b>0.00</b>       | <b>0.00</b> | <b>0.85</b> | <b>0.00</b> | <b>0.22</b> | <b>0.19</b> | <b>100.0</b> | <b>4.2</b>   |
| 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          |
| <b>OTHER/UNSPECIFIED NEOPLASMS</b>     | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0.0</b>   | <b>-</b>     | <b>0.00</b>       | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.0</b>   | <b>0.0</b>   |
| 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          |
| <b>Total</b>                           | <b>11</b>    | <b>6</b> | <b>8</b> | <b>0</b> | <b>25</b> | <b>100.0</b> | <b>-</b>     | <b>10.32</b>      | <b>4.76</b> | <b>6.80</b> | <b>0.00</b> | <b>5.48</b> | <b>5.81</b> | <b>100.0</b> | <b>109.4</b> |



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       |             |              |             |
| <b>MALIGNANT BONE TUMOURS</b>          | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0.0</b>   | -       | <b>0.00</b>       | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.0</b>   | <b>0.0</b>  |
| 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         |
| <b>SOFT TISSUE SARCOMAS</b>            | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0.0</b>   | -       | <b>0.00</b>       | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.0</b>   | <b>0.0</b>  |
| 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         |
| <b>GERM CELL/GONADAL</b>               | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0.0</b>   | -       | <b>0.00</b>       | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.0</b>   | <b>0.0</b>  |
| 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         |
| <b>CARCINOMAS/EPITHELIAL NEOPLASMS</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0.0</b>   | -       | <b>0.00</b>       | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.0</b>   | <b>0.0</b>  |
| 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         |
| <b>OTHER/UNSPECIFIED NEOPLASMS</b>     | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0.0</b>   | -       | <b>0.00</b>       | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.0</b>   | <b>0.0</b>  |
| 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         |
| <b>Total</b>                           | <b>5</b>     | <b>0</b> | <b>1</b> | <b>0</b> | <b>6</b> | <b>100.0</b> | -       | <b>4.69</b>       | <b>0.00</b> | <b>0.85</b> | <b>0.00</b> | <b>1.32</b> | <b>1.60</b> | <b>100.0</b> | <b>27.7</b> |



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        |              |              |              |
| <b>MALIGNANT BONE TUMOURS</b>          | <b>0</b>     | <b>3</b>  | <b>6</b>  | <b>1</b>  | <b>10</b>  | <b>5.0</b>   | <b>100.0</b> | <b>0.00</b>       | <b>2.38</b>  | <b>5.10</b>  | <b>0.95</b>  | <b>2.19</b>  | <b>1.95</b>  | <b>100.0</b> | <b>42.1</b>  |
| 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          |
| <b>SOFT TISSUE SARCOMAS</b>            | <b>2</b>     | <b>2</b>  | <b>1</b>  | <b>1</b>  | <b>6</b>   | <b>3.0</b>   | <b>100.0</b> | <b>1.88</b>       | <b>1.59</b>  | <b>0.85</b>  | <b>0.95</b>  | <b>1.32</b>  | <b>1.36</b>  | <b>100.0</b> | <b>26.3</b>  |
| 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          |
| <b>GERM CELL/GONADAL</b>               | <b>2</b>     | <b>2</b>  | <b>8</b>  | <b>3</b>  | <b>15</b>  | <b>7.4</b>   | <b>100.0</b> | <b>1.88</b>       | <b>1.59</b>  | <b>6.80</b>  | <b>2.84</b>  | <b>3.29</b>  | <b>3.13</b>  | <b>94.4</b>  | <b>65.5</b>  |
| 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          |
| <b>CARCINOMAS/EPITHELIAL NEOPLASMS</b> | <b>0</b>     | <b>0</b>  | <b>3</b>  | <b>2</b>  | <b>5</b>   | <b>2.5</b>   | <b>100.0</b> | <b>0.00</b>       | <b>0.00</b>  | <b>2.55</b>  | <b>1.89</b>  | <b>1.10</b>  | <b>1.00</b>  | <b>100.0</b> | <b>22.2</b>  |
| 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         |
| <b>OTHER/UNSPECIFIED NEOPLASMS</b>     | <b>0</b>     | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>   | <b>0.0</b>   | <b>-</b>     | <b>0.00</b>       | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.0</b>   | <b>0.0</b>   |
| 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          |
| <b>Total</b>                           | <b>76</b>    | <b>59</b> | <b>47</b> | <b>20</b> | <b>202</b> | <b>100.0</b> | <b>-</b>     | <b>71.27</b>      | <b>46.81</b> | <b>39.93</b> | <b>18.93</b> | <b>44.29</b> | <b>46.33</b> | <b>97.2</b>  | <b>884.7</b> |



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        |
| <b>MALIGNANT BONE TUMOURS</b>          | <b>0</b>     | <b>2</b>  | <b>4</b>  | <b>1</b>  | <b>7</b>   | <b>4.7</b>   | <b>100.0</b> | <b>0.00</b>       | <b>1.59</b>  | <b>3.40</b>  | <b>0.95</b>  | <b>1.53</b>  | <b>1.37</b>  | <b>100.0</b> | <b>29.7</b>  |
| 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          |
| <b>SOFT TISSUE SARCOMAS</b>            | <b>2</b>     | <b>2</b>  | <b>1</b>  | <b>1</b>  | <b>6</b>   | <b>4.0</b>   | <b>100.0</b> | <b>1.88</b>       | <b>1.59</b>  | <b>0.85</b>  | <b>0.95</b>  | <b>1.32</b>  | <b>1.36</b>  | <b>100.0</b> | <b>26.3</b>  |
| 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          |
| <b>GERM CELL/GONADAL</b>               | <b>2</b>     | <b>1</b>  | <b>5</b>  | <b>2</b>  | <b>10</b>  | <b>6.7</b>   | <b>100.0</b> | <b>1.88</b>       | <b>0.79</b>  | <b>4.25</b>  | <b>1.89</b>  | <b>2.19</b>  | <b>2.14</b>  | <b>93.3</b>  | <b>44.0</b>  |
| 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          |
| <b>CARCINOMAS/EPITHELIAL NEOPLASMS</b> | <b>0</b>     | <b>0</b>  | <b>1</b>  | <b>2</b>  | <b>3</b>   | <b>2.0</b>   | <b>100.0</b> | <b>0.00</b>       | <b>0.00</b>  | <b>0.85</b>  | <b>1.89</b>  | <b>0.66</b>  | <b>0.62</b>  | <b>100.0</b> | <b>13.7</b>  |
| 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          |
| <b>OTHER/UNSPECIFIED NEOPLASMS</b>     | <b>0</b>     | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>   | <b>0.0</b>   | <b>-</b>     | <b>0.00</b>       | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.00</b>  | <b>0.0</b>   | <b>0.0</b>   |
| 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          |
| <b>Total</b>                           | <b>58</b>    | <b>41</b> | <b>34</b> | <b>17</b> | <b>150</b> | <b>100.0</b> | <b>-</b>     | <b>54.39</b>      | <b>32.53</b> | <b>28.88</b> | <b>16.09</b> | <b>32.89</b> | <b>34.57</b> | <b>95.5</b>  | <b>659.4</b> |



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        |
| <b>MALIGNANT BONE TUMOURS</b>          | <b>0</b>     | <b>0</b>  | <b>2</b>  | <b>0</b> | <b>2</b>  | <b>6.1</b>   | <b>100.0</b> | <b>0.00</b>       | <b>0.00</b> | <b>1.70</b> | <b>0.00</b> | <b>0.44</b>  | <b>0.38</b> | <b>100.0</b> | <b>8.5</b>   |
| 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          |
| <b>SOFT TISSUE SARCOMAS</b>            | <b>0</b>     | <b>0</b>  | <b>0</b>  | <b>0</b> | <b>0</b>  | <b>0.0</b>   | <b>-</b>     | <b>0.00</b>       | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.0</b>   | <b>0.0</b>   |
| 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          |
| <b>GERM CELL/GONADAL</b>               | <b>0</b>     | <b>1</b>  | <b>2</b>  | <b>1</b> | <b>4</b>  | <b>12.1</b>  | <b>100.0</b> | <b>0.00</b>       | <b>0.79</b> | <b>1.70</b> | <b>0.95</b> | <b>0.88</b>  | <b>0.79</b> | <b>100.0</b> | <b>17.2</b>  |
| 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          |
| <b>CARCINOMAS/EPITHELIAL NEOPLASMS</b> | <b>0</b>     | <b>0</b>  | <b>2</b>  | <b>0</b> | <b>2</b>  | <b>6.1</b>   | <b>100.0</b> | <b>0.00</b>       | <b>0.00</b> | <b>1.70</b> | <b>0.00</b> | <b>4.83</b>  | <b>0.38</b> | <b>100.0</b> | <b>8.5</b>   |
| 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          |
| <b>OTHER/UNSPECIFIED NEOPLASMS</b>     | <b>0</b>     | <b>0</b>  | <b>0</b>  | <b>0</b> | <b>0</b>  | <b>0.0</b>   | <b>-</b>     | <b>0.00</b>       | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b> | <b>0.0</b>   | <b>0.0</b>   |
| 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          |
| <b>Total</b>                           | <b>9</b>     | <b>11</b> | <b>11</b> | <b>2</b> | <b>33</b> | <b>100.0</b> | <b>-</b>     | <b>8.44</b>       | <b>8.73</b> | <b>9.34</b> | <b>1.89</b> | <b>11.63</b> | <b>7.24</b> | <b>95.2</b>  | <b>142.0</b> |



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       |
| <b>MALIGNANT BONE TUMOURS</b>          | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0.0</b>   | -            | <b>0.00</b>       | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.0</b>   | <b>0.0</b>  |
| 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         |
| <b>SOFT TISSUE SARCOMAS</b>            | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0.0</b>   | -            | <b>0.00</b>       | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.0</b>   | <b>0.0</b>  |
| 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         |
| <b>GERM CELL/GONADAL</b>               | <b>0</b>     | <b>0</b> | <b>1</b> | <b>0</b> | <b>1</b>  | <b>7.1</b>   | <b>100.0</b> | <b>0.00</b>       | <b>0.00</b> | <b>0.85</b> | <b>0.00</b> | <b>0.22</b> | <b>0.19</b> | <b>100.0</b> | <b>4.2</b>  |
| 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         |
| <b>CARCINOMAS/EPITHELIAL NEOPLASMS</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0.0</b>   | -            | <b>0.00</b>       | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.0</b>   | <b>0.0</b>  |
| 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         |
| <b>OTHER/UNSPECIFIED NEOPLASMS</b>     | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0.0</b>   | -            | <b>0.00</b>       | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.0</b>   | <b>0.0</b>  |
| 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         |
| <b>Total</b>                           | <b>7</b>     | <b>4</b> | <b>2</b> | <b>1</b> | <b>14</b> | <b>100.0</b> | -            | <b>6.56</b>       | <b>3.17</b> | <b>1.70</b> | <b>0.95</b> | <b>3.07</b> | <b>3.36</b> | <b>100.0</b> | <b>61.9</b> |



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       |             |              |             |
| <b>MALIGNANT BONE TUMOURS</b>          | <b>0</b>     | <b>1</b> | <b>0</b> | <b>0</b> | <b>1</b> | <b>20.0</b>  | -       | <b>0.00</b>       | <b>0.79</b> | <b>0.00</b> | <b>0.00</b> | <b>0.22</b> | <b>0.20</b> | <b>100.0</b> | <b>4.0</b>  |
| 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         |
| <b>SOFT TISSUE SARCOMAS</b>            | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0.0</b>   | -       | <b>0.00</b>       | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.0</b>   | <b>0.0</b>  |
| 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         |
| <b>GERM CELL/GONADAL</b>               | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0.0</b>   | -       | <b>0.00</b>       | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.0</b>   | <b>0.0</b>  |
| 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         |
| <b>CARCINOMAS/EPITHELIAL NEOPLASMS</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0.0</b>   | -       | <b>0.00</b>       | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.0</b>   | <b>0.0</b>  |
| 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         |
| <b>OTHER/UNSPECIFIED NEOPLASMS</b>     | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0.0</b>   | -       | <b>0.00</b>       | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.0</b>   | <b>0.0</b>  |
| 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         |
| <b>Total</b>                           | <b>0</b>     | <b>2</b> | <b>0</b> | <b>0</b> | <b>5</b> | <b>100.0</b> | -       | <b>1.88</b>       | <b>2.38</b> | <b>0.00</b> | <b>0.00</b> | <b>1.10</b> | <b>1.16</b> | <b>100.0</b> | <b>21.3</b> |

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          |
| <b>TOTAL</b>          |                |   |    |    |    |    |   |    |    |   |    |    |    |    |    |    |    |    |    |       | <b>193</b> |

Table 3. Lymphoma: 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        |
| Hodgkin's Disease    | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1  | 0  | 2  | 0  | 1  | 1  | 0  | 0  | 0  | 0     | 6         |
| Non-Hodgkin Lymphoma | 1              | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 0 | 4 | 1  | 2  | 4  | 2  | 4  | 0  | 1  | 0  | 0  | 0     | 29        |
| Burkitt's Lymphoma   | 0              | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1  | 0  | 1  | 0  | 0  | 1  | 0  | 0  | 0  | 0     | 8         |
| Misc                 | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0     | 1         |
| Unspecified          | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     | 0         |
| <b>TOTAL</b>         |                |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |       | <b>44</b> |

Table 4. CNS 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        |
| Ependymoma       | 0              | 1 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 1  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     | 8         |
| Astrocytoma      | 0              | 2 | 3 | 1 | 1 | 1 | 2 | 1 | 3 | 1 | 1  | 2  | 0  | 1  | 1  | 0  | 1  | 0  | 0  | 0     | 21        |
| PNET             | 2              | 2 | 1 | 2 | 1 | 0 | 4 | 0 | 2 | 0 | 0  | 1  | 1  | 1  | 0  | 1  | 1  | 0  | 0  | 0     | 19        |
| Other Gliomas    | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1  | 1  | 0  | 0  | 1  | 0  | 1  | 0  | 0  | 0     | 6         |
| Other Specified  | 2              | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     | 8         |
| Unspecified      | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     | 0         |
| <b>TOTAL</b>     |                |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |       | <b>62</b> |

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         |
| <b>TOTAL</b>                         |                |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |       | <b>23</b> |

Table 6. Retinoblastoma: 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 |
| Retinoblastoma   | 4              | 5 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     | 14 |
| TOTAL            |                |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |       | 14 |

Table 7. Renal 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        |
| Wilm's tumour    | 3              | 0 | 2 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     | 9         |
| Renal Carcinoma  | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0     | 1         |
| Unspecified      | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     | 0         |
| <b>TOTAL</b>     |                |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |       | <b>10</b> |

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        |
| <b>TOTAL</b>      |                |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |       | <b>9</b> |

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         |
| <b>TOTAL</b>     |                |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |       | <b>26</b> |

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         |
| <b>TOTAL</b>     |                |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |       | <b>17</b> |

Table 11. Germ Cell & Gonadal: 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 |
| CNS GCT               | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2  | 3  | 0  | 2  | 5  | 0  | 1  | 1  | 0  | 0         | 15 |
| Other Non-gonadal GCT | 1              | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0         | 4  |
| Gonadal GCT           | 3              | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0  | 1  | 1  | 0  | 2  | 1  | 1  | 0  | 0  | 0         | 12 |
| Other & Unspecified   | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0         | 0  |
| <b>TOTAL</b>          |                |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    | <b>31</b> |    |

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        |
| <b>TOTAL</b>        |                |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |       | <b>9</b> |

Table 13. Other & Unspecified 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       |
| Other Specified   | 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 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     | 0        |
| <b>TOTAL</b>      |                |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |       | <b>0</b> |

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

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

**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**

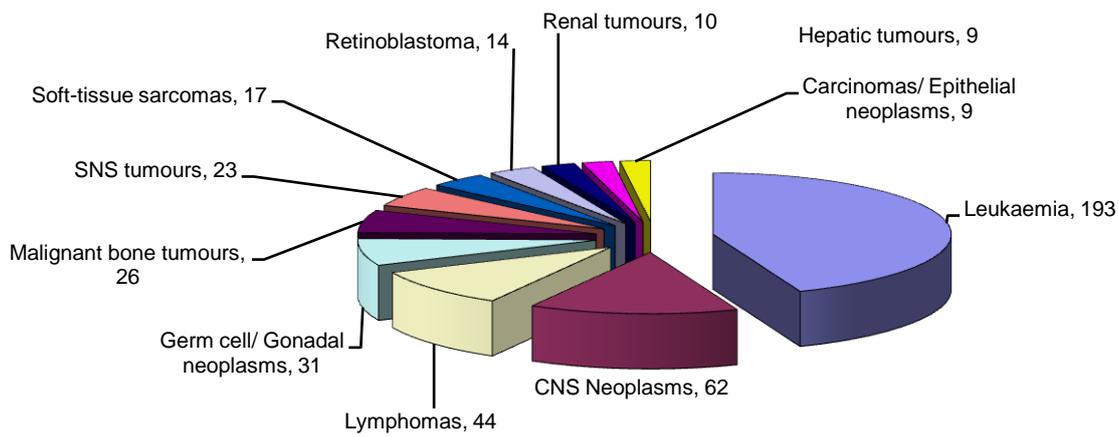


Table 16. Number of Childhood Cancers in Singapore by Gender, 2003-2007

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

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

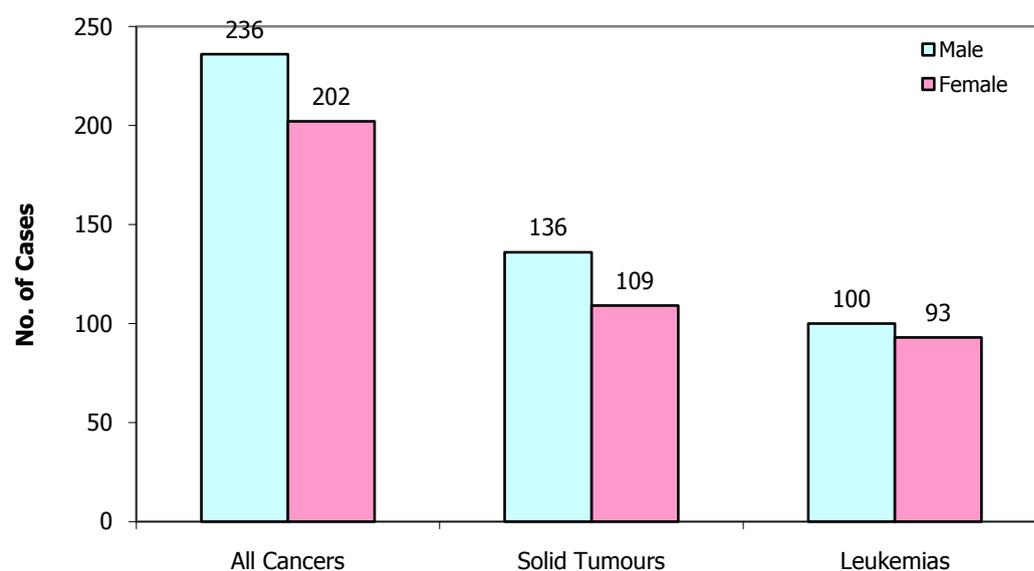
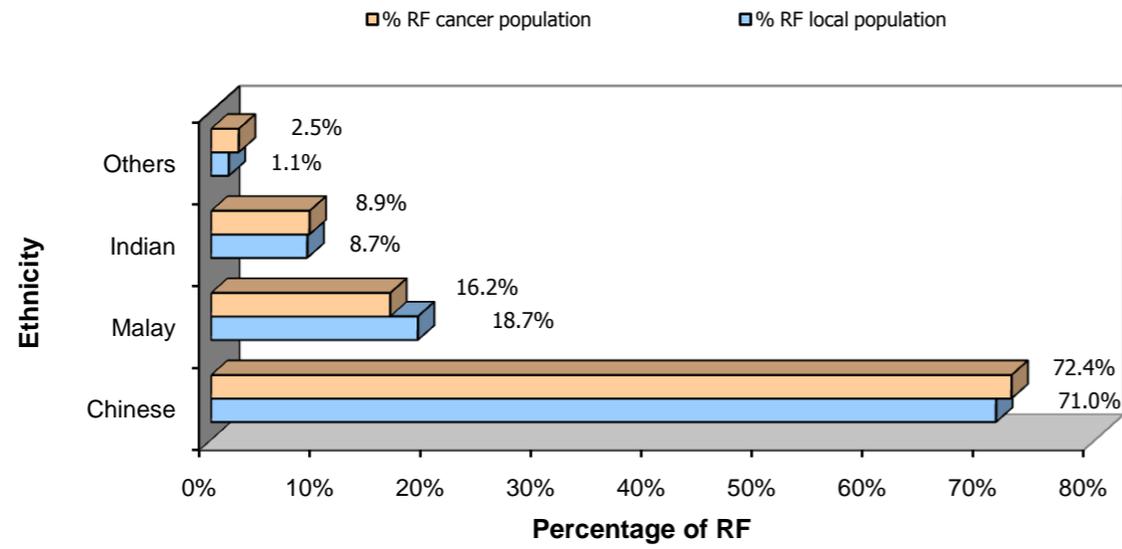


Table 17. Relative Frequency of Different Ethnic Groups by Local and Cancer Population

| 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          |
| <b>TOTAL</b>            | <b>912118</b>          | <b>100.0</b> | <b>438</b>                    | <b>100.0</b> |

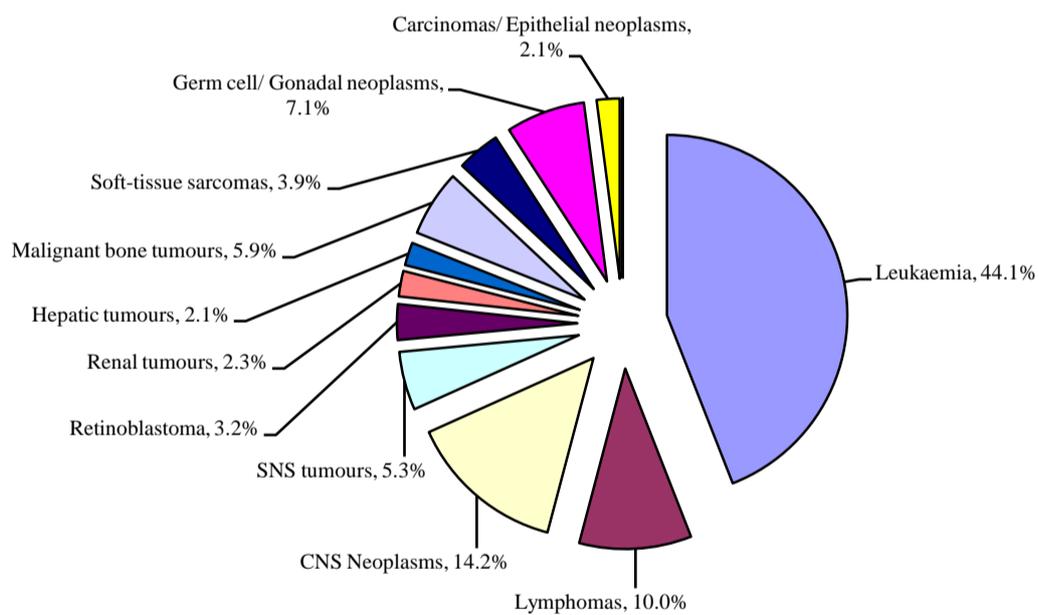
Fig 3: Comparison of %RF for Different Ethnic Groups by Local and Cancer Population



**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        |
| <b>TOTAL</b>                     | <b>438</b>   | <b>100</b> |

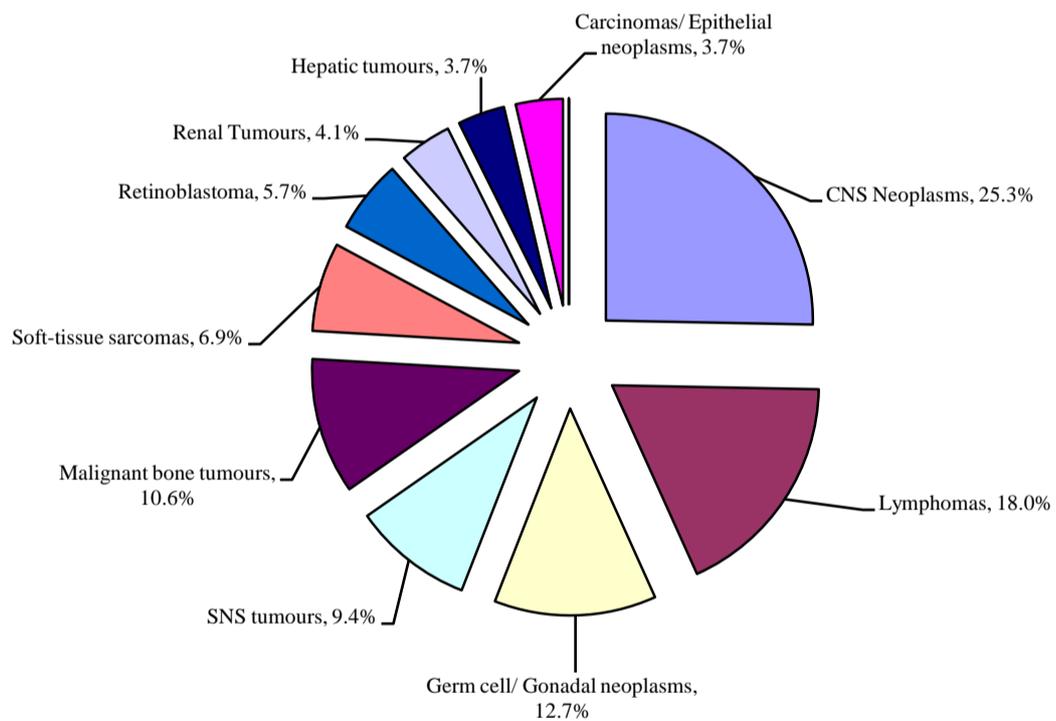
**Fig 4: Relative Frequency of Major Diagnostic Groups in Singapore, 2003-2007**



**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%        |
| <b>TOTAL</b>                     | <b>245</b>   | <b>100%</b> |

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

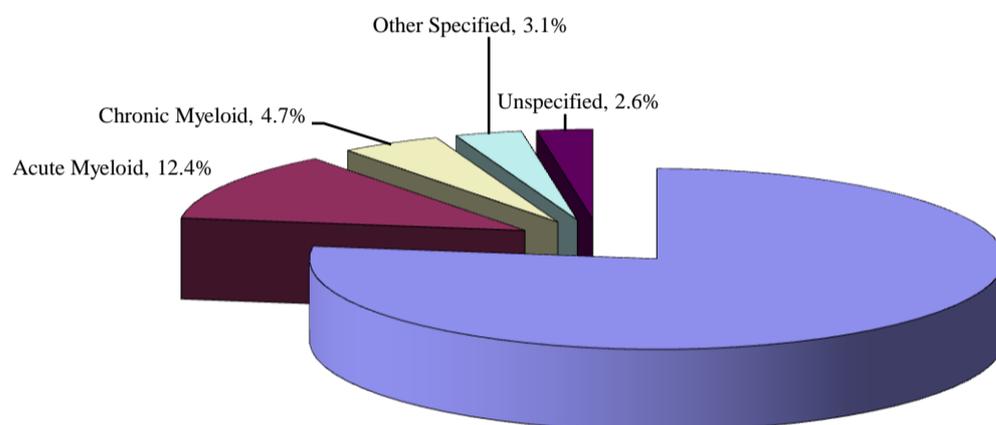


**Table 20. Relative Frequency of Leukemias in Singapore by Morphological Types, 2003-2007**

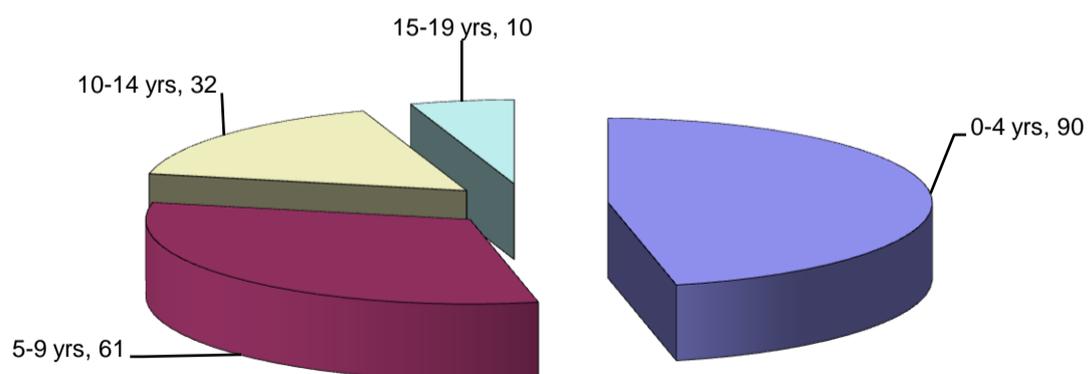
| Morphologic Subtypes | No. of Cases | % RF        |
|----------------------|--------------|-------------|
| Lymphoid             | 149          | 77.2%       |
| Acute Myeloid        | 24           | 12.4%       |
| Chronic Myeloid      | 9            | 4.7%        |
| Other Specified      | 6    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

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

Lymphoid, 77.2%



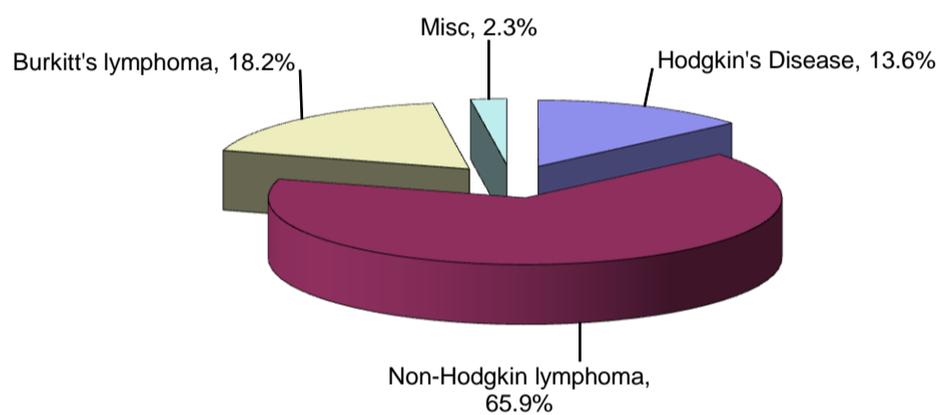
**Fig 7: Singapore Childhood Leukemia, 2003-2007, Age Distribution**



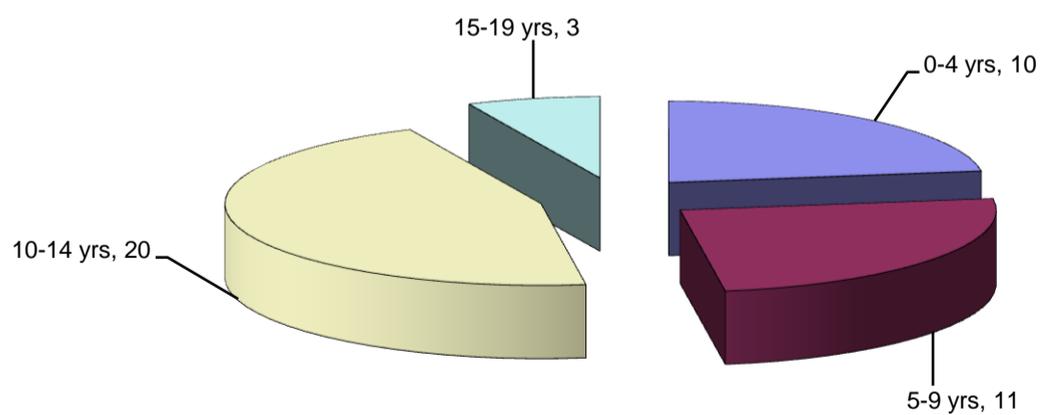
**Table 21. Relative Frequency of Lymphomas, 2003-2007**

| 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%        |
| <b>TOTAL</b>         | <b>44</b>    | <b>100%</b> |

**Fig 8: Singapore Childhood Lymphomas, 2003-2007**



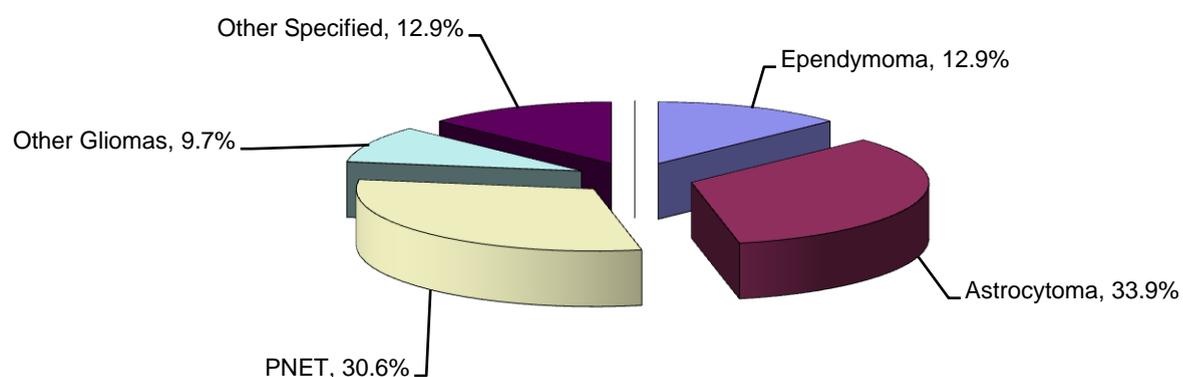
**Fig 9: Singapore Childhood Lymphomas, 2003-2007, Age Distribution**



**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%        |
| <b>TOTAL</b>    | <b>62</b>    | <b>100%</b> |

**Fig 10: Singapore Childhood CNS Neoplasms, 2003-2007**



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

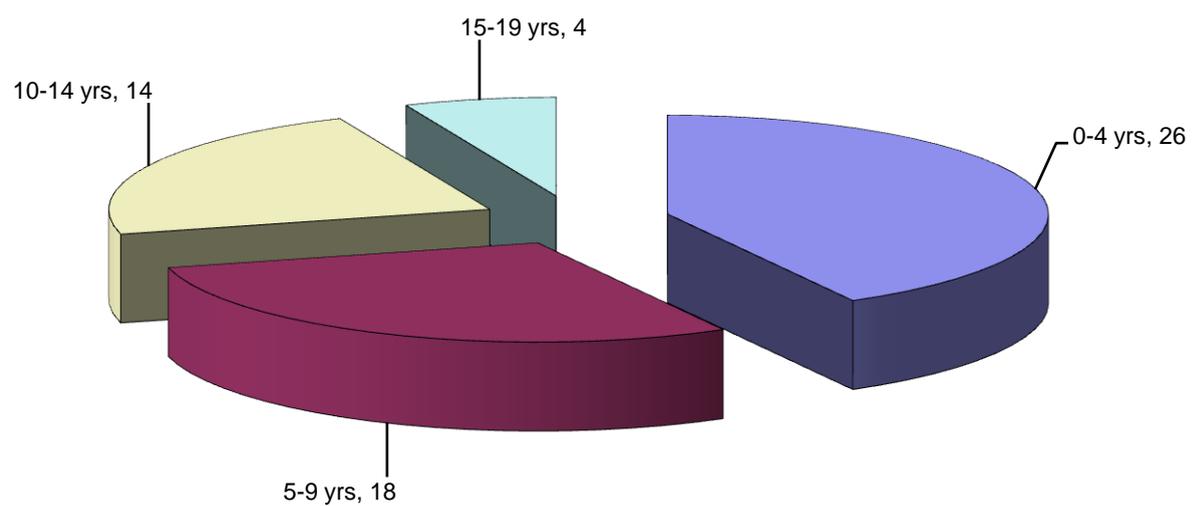


Table 23. Relative Frequency of CNS Neoplasms, 2003-2007

| CNS NEOPLASMS        | No. of Cases | %RF           |
|----------------------|--------------|---------------|
| Ganglioneuroblastoma | 2            | 8.7%          |
| Neuroblastoma        | 21           | 91.3%         |
| <b>TOTAL</b>         | <b>23</b>    | <b>100.0%</b> |

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

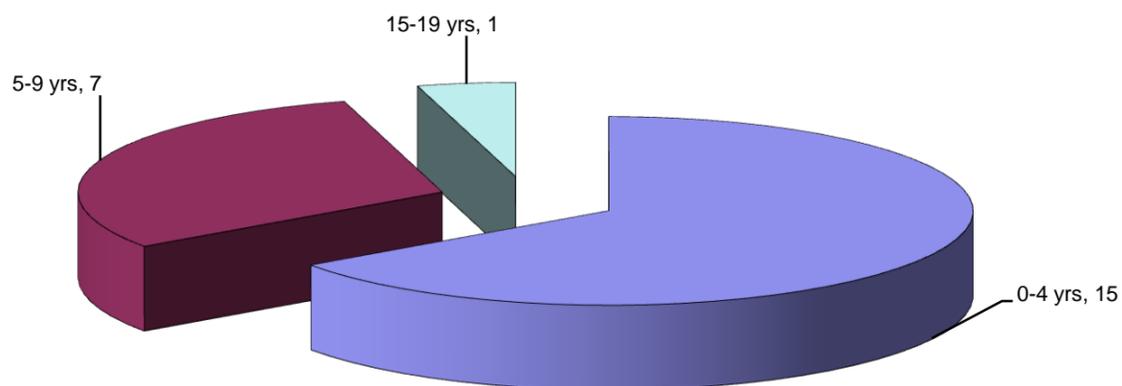


Fig 13: Singapore Childhood Neuroblastoma by Morphological Subtypes, 2003-2007

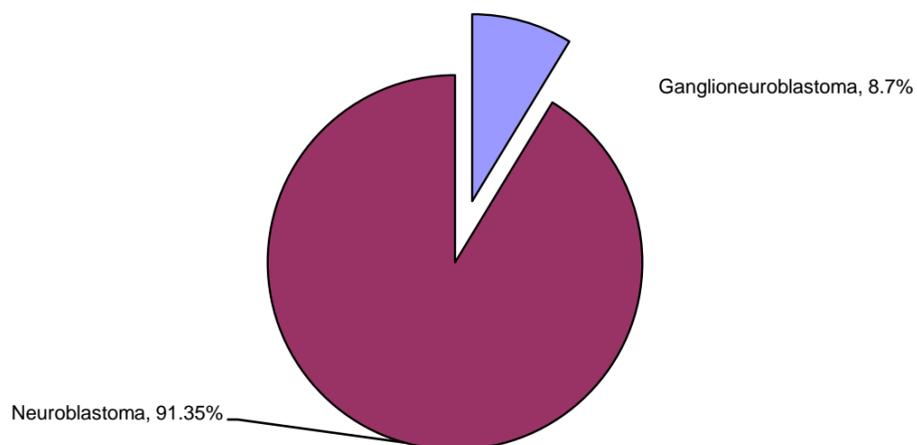


Fig 14: Singapore Childhood Neuroblastoma by Primary Diagnosed Sites, 2003-2007

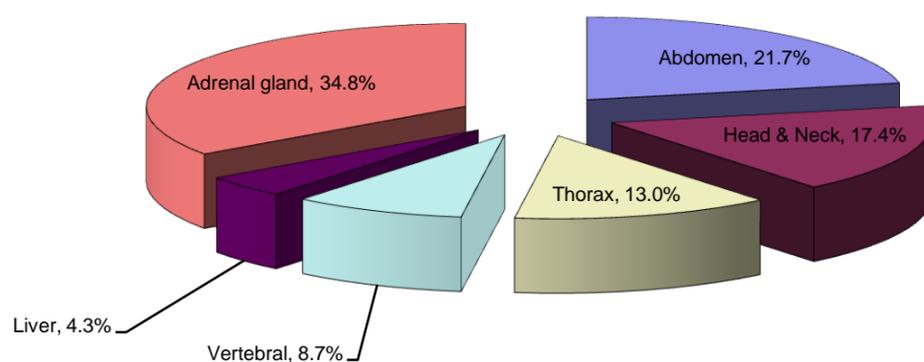


Table 24. Singapore Childhood Retinoblastoma by Age Group and Tumour Site, 2003-2007

| 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         |
| <b>TOTAL</b> | <b>4</b> | <b>5</b> | <b>4</b> | <b>1</b> | <b>0</b> | <b>14</b> |

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

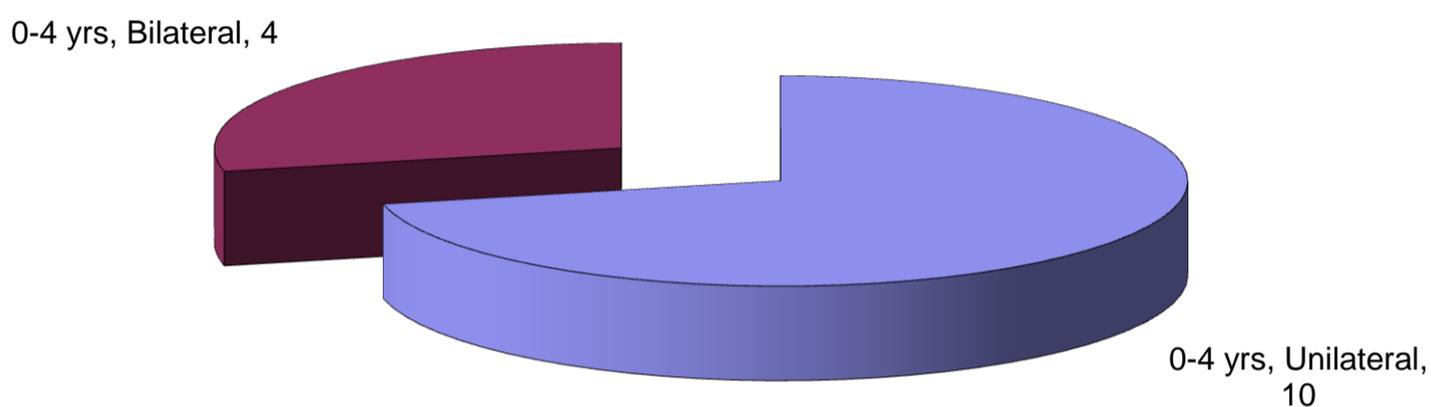
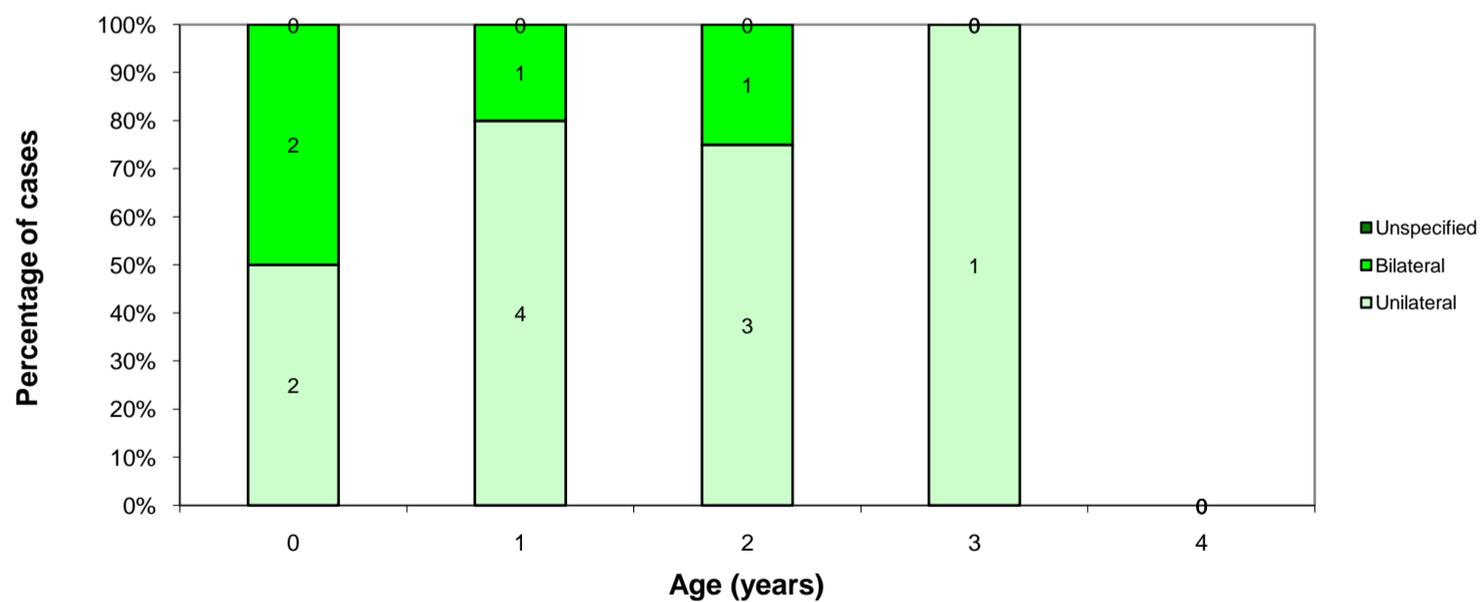


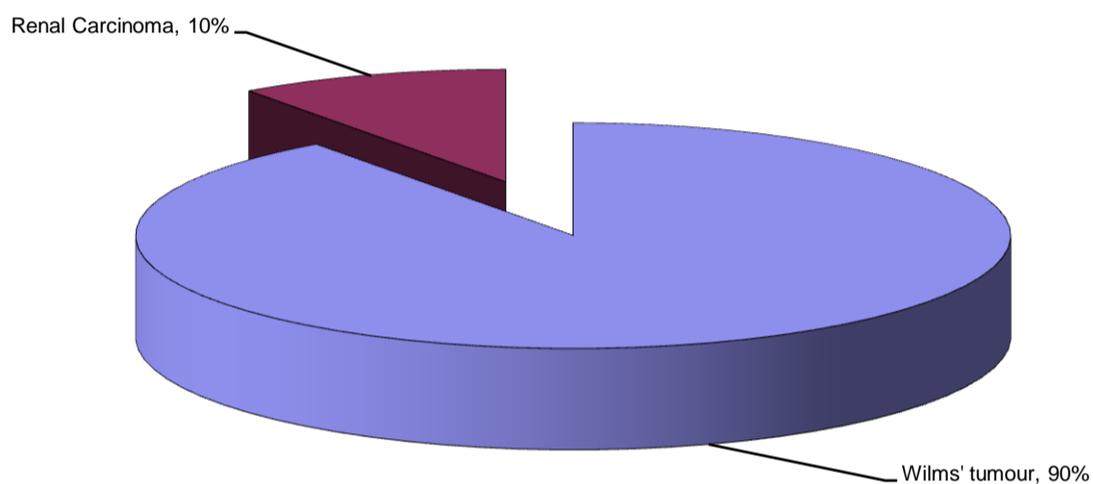
Fig 16: Singapore Childhood Retinoblastoma by Site distribution by Age, 2003-2007



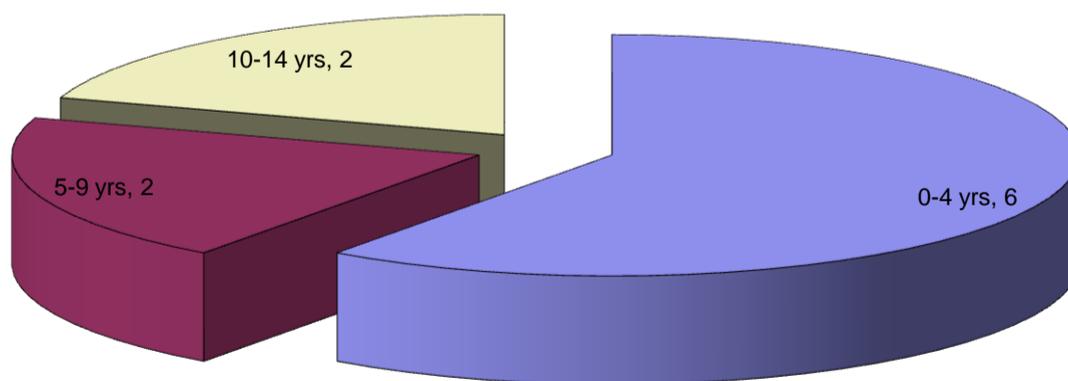
**Table 25. Relative Frequency of Renal Neoplasms, 2003-2007**

| Renal Neoplasms | No. of Cases | %RF         |
|-----------------|--------------|-------------|
| Wilms' tumour   | 9            | 90.0%       |
| Renal Carcinoma | 1            | 10.0%       |
| Unspecified     | 0            | 0.0%        |
| <b>TOTAL</b>    | <b>10</b>    | <b>100%</b> |

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



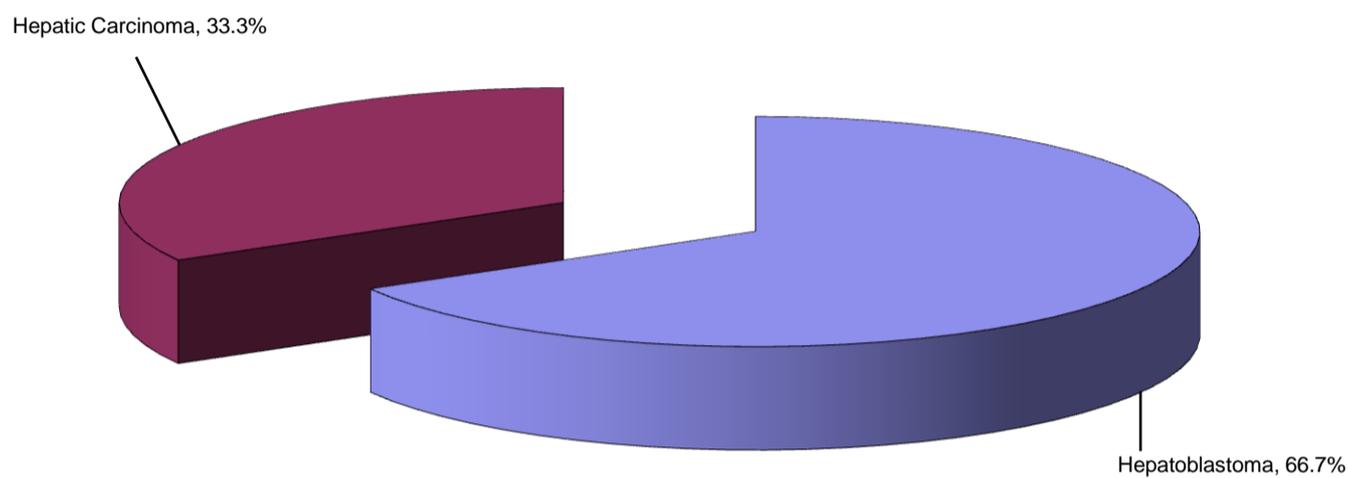
**Fig 18: Singapore Childhood Renal Neoplasms, 2003-2007, Age Distribution**



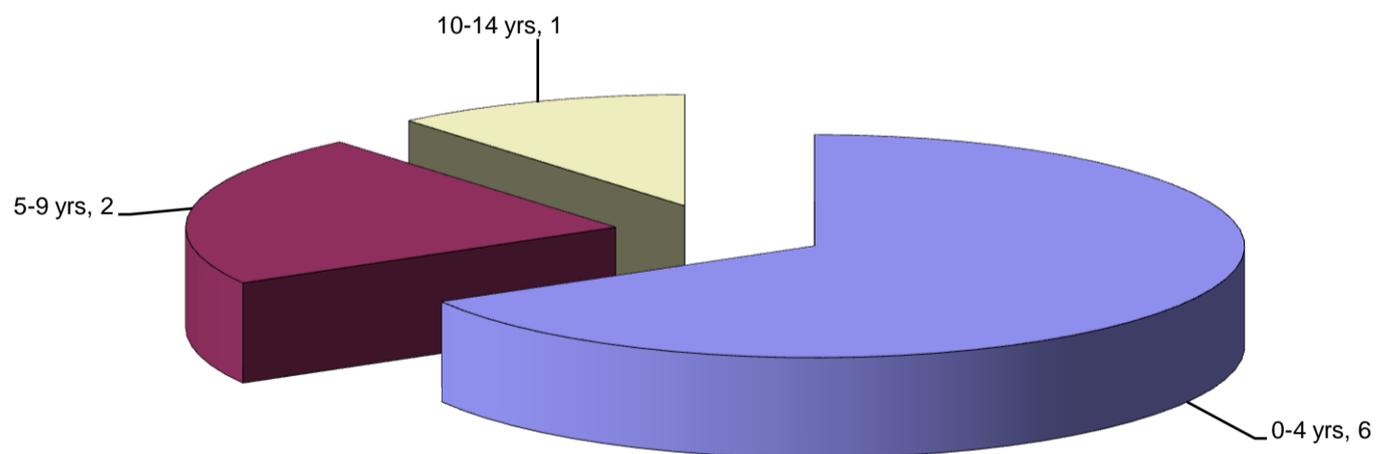
**Table 26. Relative Frequency of Hepatic Neoplasms, 2003-2007**

| Hepatic Neoplasms | No. of Cases | %RF         |
|-------------------|--------------|-------------|
| Hepatoblastoma    | 6            | 66.7%       |
| Hepatic Carcinoma | 3            | 33.3%       |
| Unspecified       | 0            | 0.0%        |
| <b>TOTAL</b>      | <b>9</b>     | <b>100%</b> |

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



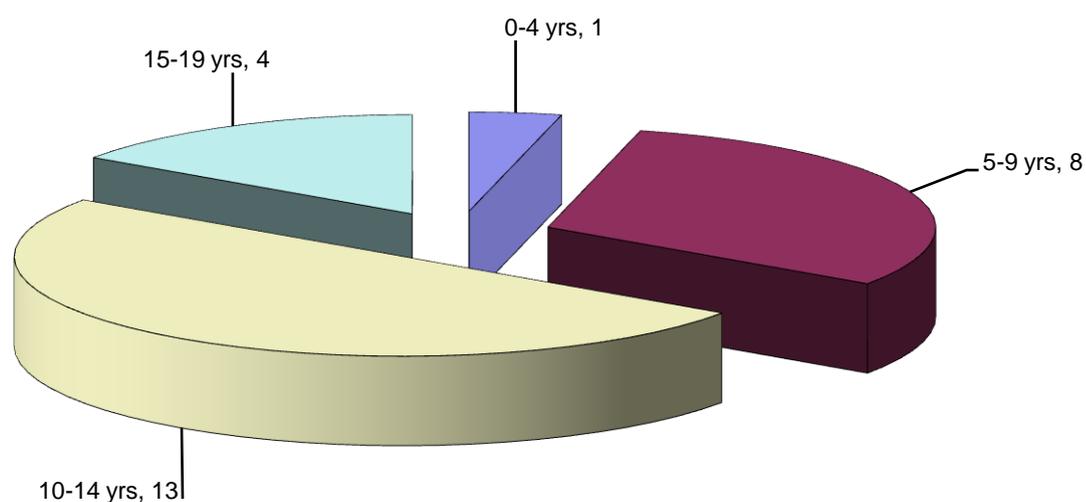
**Fig 20: Singapore Childhood Hepatic Neoplasms, 2003-2007, Age Distribution**



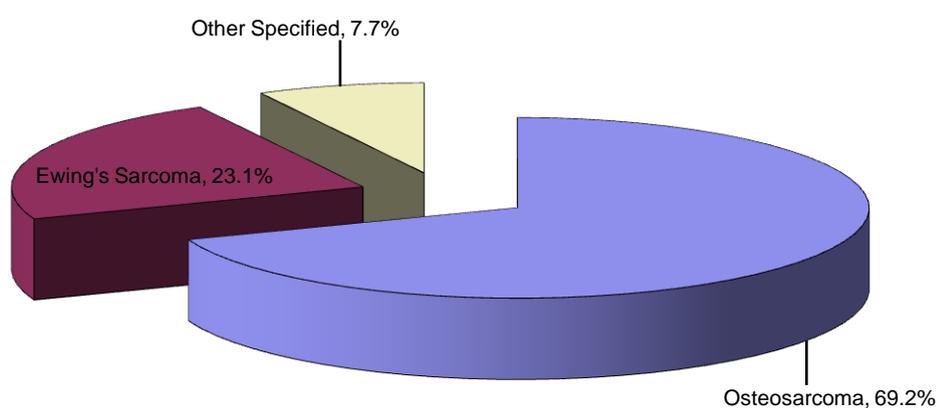
**Table 27. Relative Frequency of Bone Neoplasms, 2003-2007**

| 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%        |
| <b>TOTAL</b>           | <b>26</b>    | <b>100%</b> |

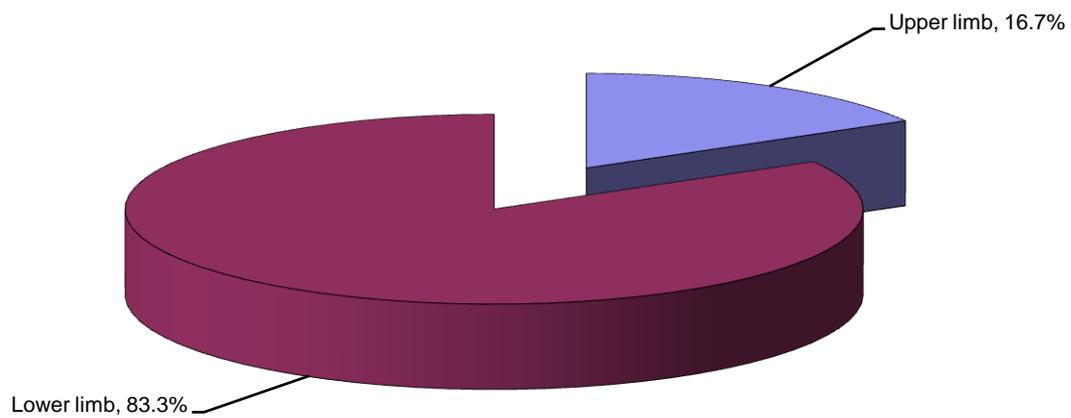
**Fig 21: Singapore Childhood Bone Neoplasms, 2003-2007, Age Distribution**



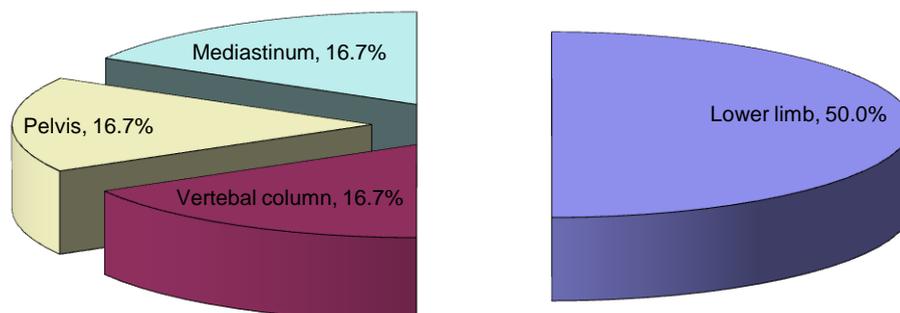
**Fig 22: Singapore Childhood Bone Neoplasms by Morphological Types, 2003-2007**



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



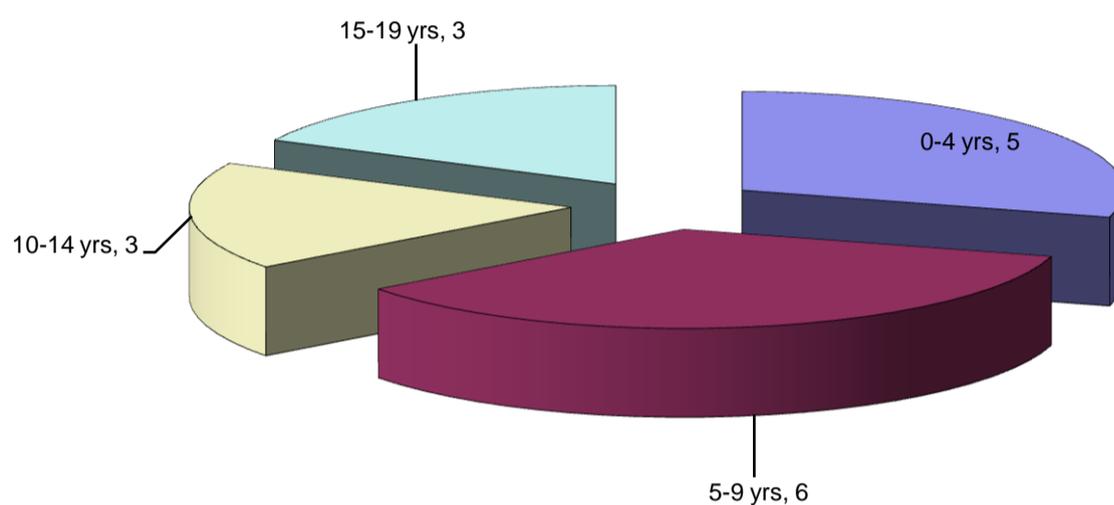
**Fig 24: Singapore Childhood Ewing's Sarcoma by Primary Diagnosed Site, 2003-2007**



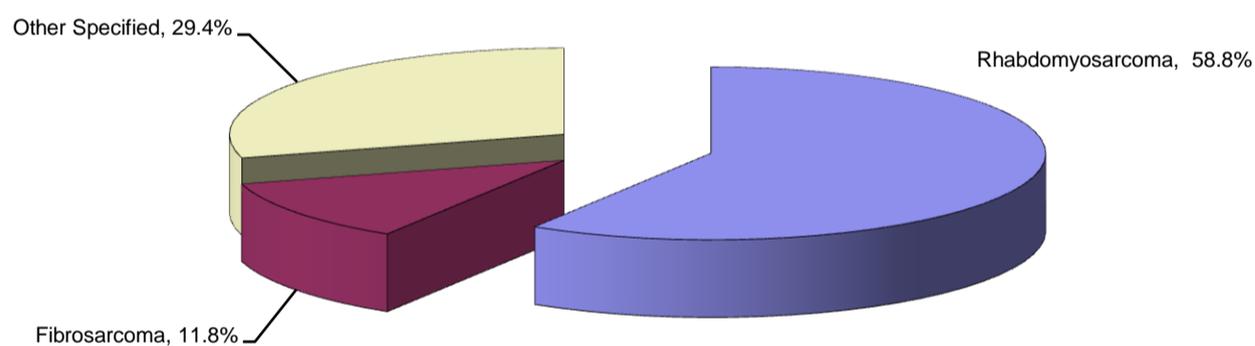
**Table 28. Relative Frequency of Soft Tissue Sarcoma, 2003-2007**

| 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%        |
| <b>TOTAL</b>           | <b>17</b>    | <b>100%</b> |

**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**

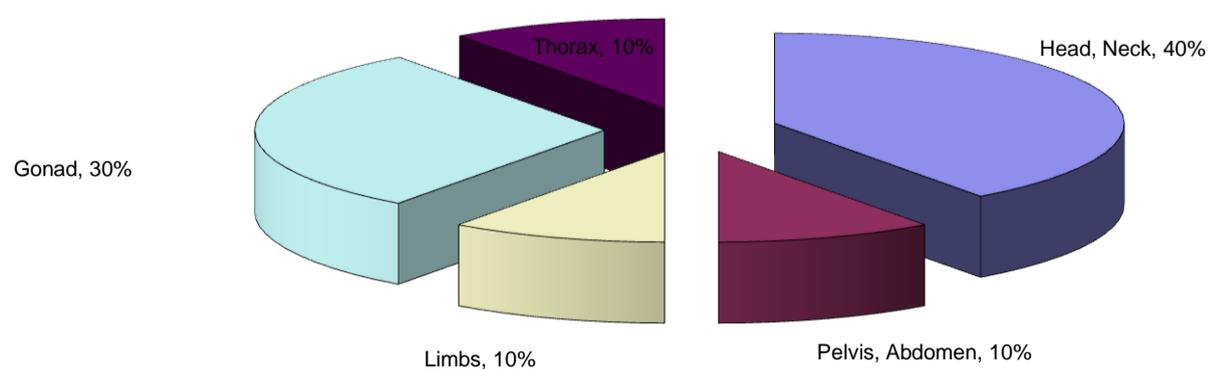


Table 29. Relative Frequency of Gonadal/ Germ Cell Tumour, 2003-2007

| 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%        |
| <b>TOTAL</b>              | <b>31</b>    | <b>100%</b> |

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

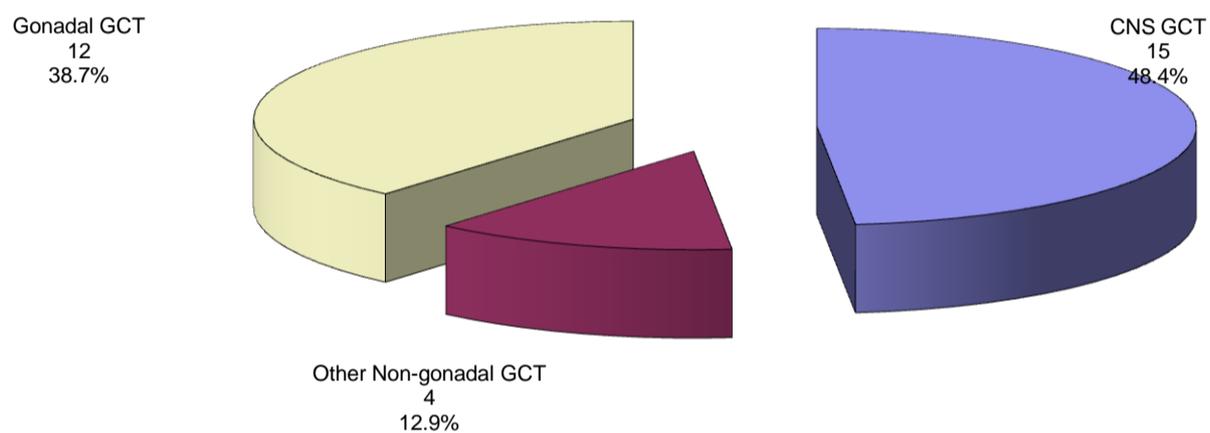
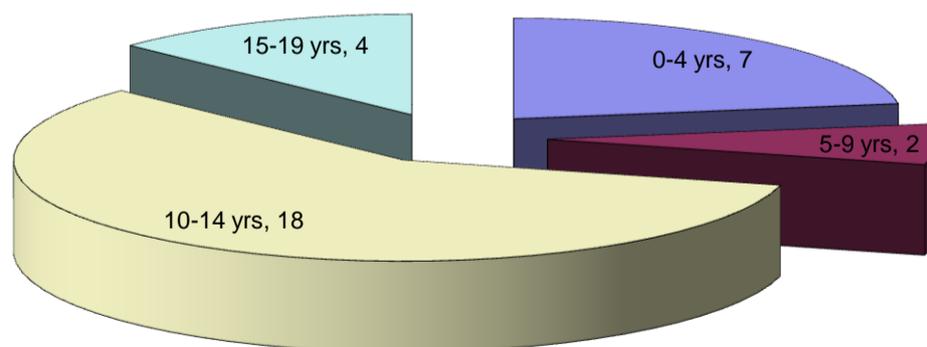


Fig 29: Singapore Childhood Gonadal/ Germ Cell Tumour, 2003-2007, Age Distribution



**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%       |
| <b>TOTAL</b>                     | <b>9</b>     | <b>100%</b> |

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

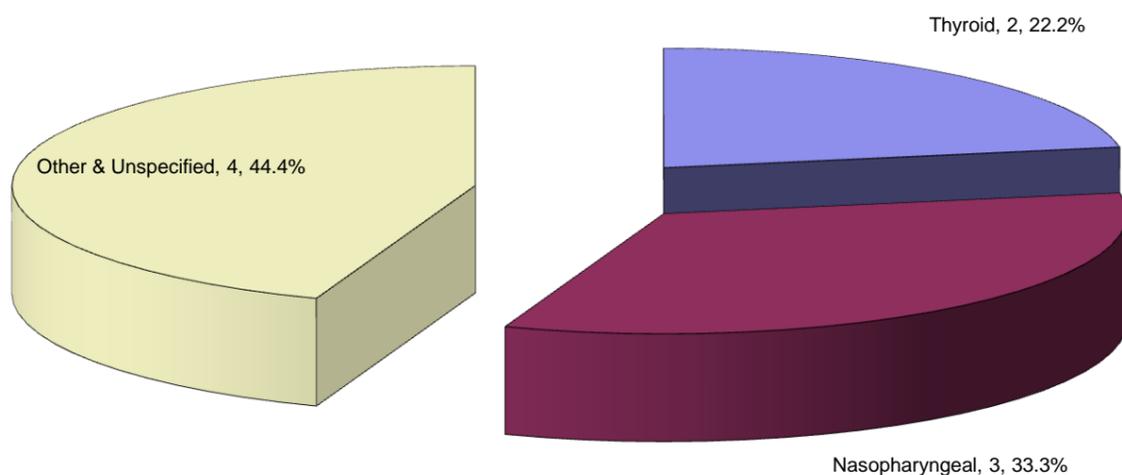


Fig 31: OS of Childhood Cancer in Singapore (KKH & NUH), 2003-2007

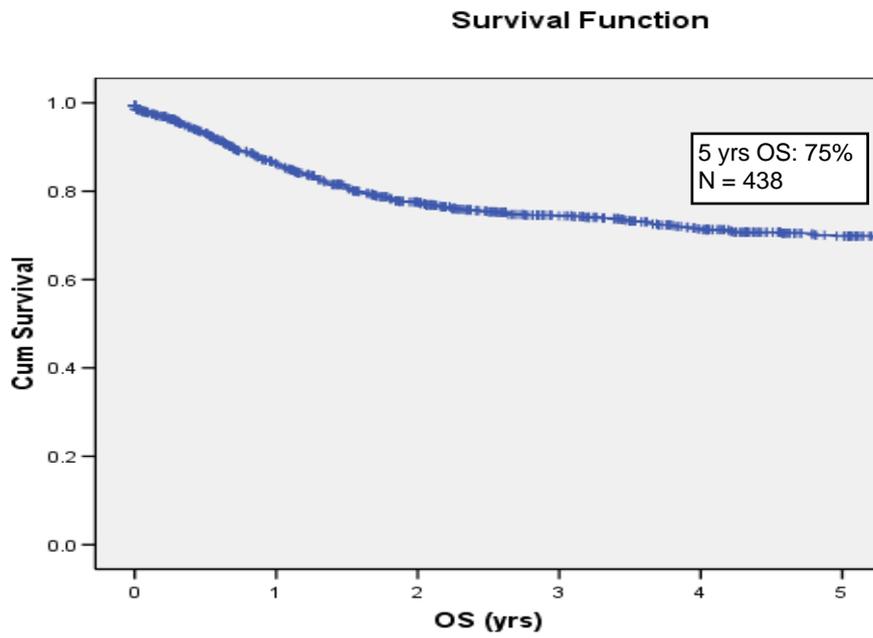


Fig 32: EFS of Childhood Cancer in Singapore (KKH & NUH), 2003-2007

