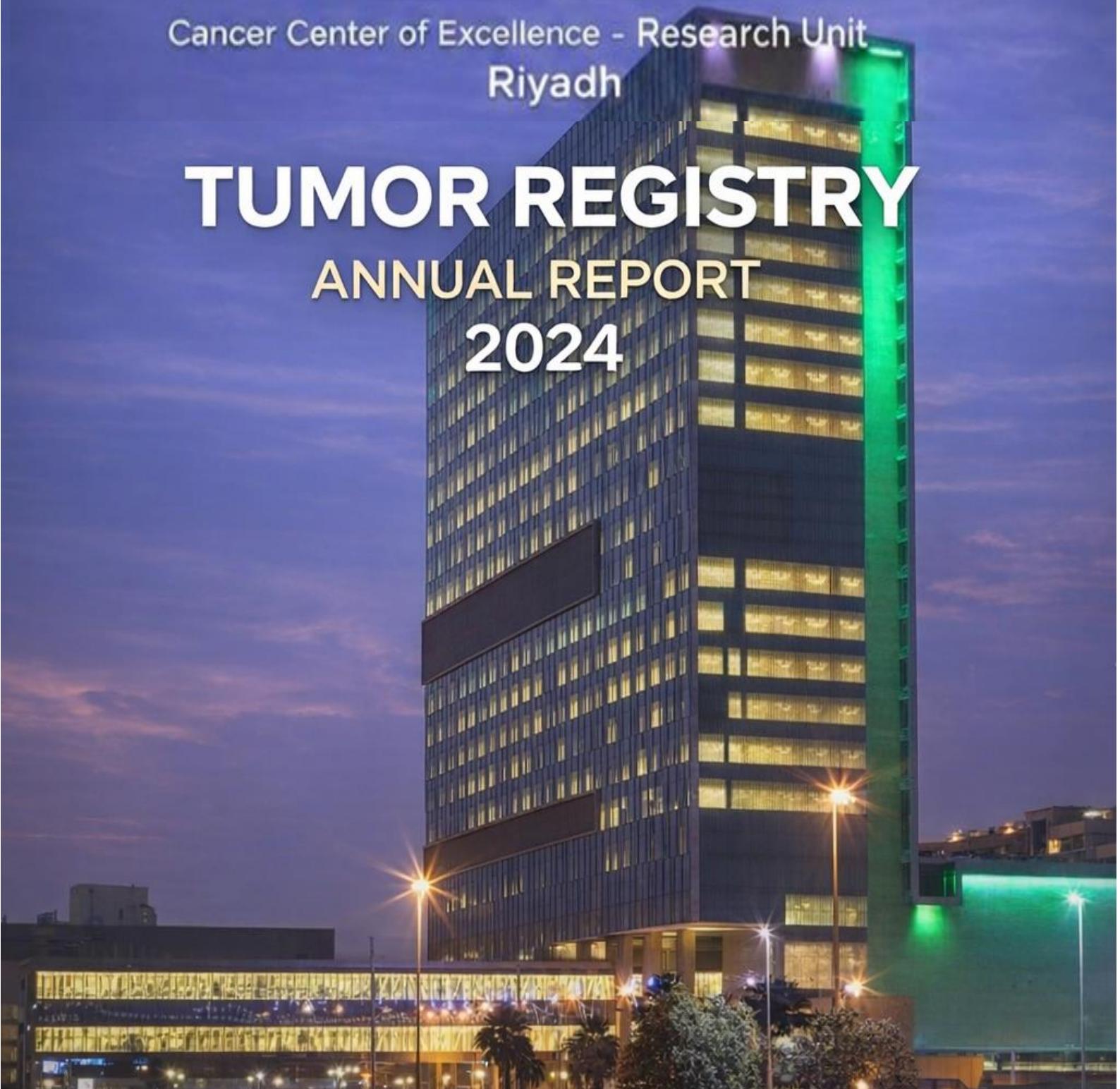




## King Faisal Specialist Hospital & Research Centre

Cancer Center of Excellence - Research Unit  
Riyadh

# TUMOR REGISTRY ANNUAL REPORT 2024





مستشفى الملك فيصل التخصصي ومركز الأبحاث  
King Faisal Specialist Hospital & Research Centre

**Cancer Center of Excellence  
Research Unit  
Riyadh**

# **TUMOR REGISTRY ANNUAL REPORT 2024**

Annual Report Prepared by the Staff of the Tumor Registry  
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OCT 2025

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## **INTRODUCTION**

We are pleased to present the 2024 Annual Tumor Registry Report for the King Faisal Specialist Hospital & Research Centre's Oncology Centre in Riyadh. The Cancer Registry maintains a complete database of information on all cancer cases diagnosed and/or treated at KFSH&RC. This database is an important patient care and quality assessment tool used by medical staff and administration for special studies, medical planning, resource allocation and utilization, education, and research for comparing the quality of care, monitoring patient care, and continuous quality improvement. This report highlights the statistical overview of newly diagnosed cancer cases by site, gender, and AJCC Staging for both analytic and non-analytic cases. During 2024, the Tumor Registry abstracted 5,129 new cancer cases. 4,737 cases were analytic, and 392 were non-analytic; the highest incidence of cancer among males by site was Colon& Rectum, Brain& CNS, Leukemia, and Prostate, and among females were carcinomas of the Breast, Uterus, Brain& CNS, and Thyroid. The Tumor Registry database includes over 125,003 cases and reports to the Saudi Cancer Registry (SCR).

Cancer Center of Excellence continues to provide comprehensive multidisciplinary care to our cancer patients. The Center provides the latest advances in radiation therapy, chemotherapy, hematopoietic stem cell transplantation, and palliative and rehabilitation care to our patients. We also continue to be a center of excellence in cancer clinical research. Involvement in clinical trials allows our physicians and researchers to actively advance new cancer treatments and provide the newest and most promising treatment options for our cancer patients. We have maintained our international cooperative group affiliations as a member of Southwest Oncology Group (SWOG), Radiation Therapy Oncology Group (RTOG/ NRG), and Canadian Blood & Marrow Transplantation Group (CBMTG). KFSH&RC has spearheaded the local and regional research consortiums as well, notably the Gulf Oncology Regional Group (GORG) and Eastern Mediterranean Blood and Marrow Transplantation (EMBMT) Group.

The Oncology Center is committed to serving as the pinnacle of excellence in the entire region. As we look to the future of cancer care in the Kingdom of Saudi Arabia, the Oncology Centre will continue to deliver evidence-based care centered on state-of-the-art clinical and translational research.

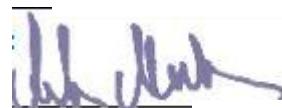
We are extremely grateful to the dedicated staff of the Tumor Registry for their hard work and commitment throughout the year. Hats off to our physicians, patient caregivers, and support staff; their commitment and dedication are the foundation for our success.

This report can be accessed online via the Cancer Center of Excellence website at:

<https://www.kfshrc.edu.sa/en/home/hospitals/riyadh/oncologycentreadults/tumorregistryreports>

Comments and suggestions are welcome to improve our future reports and can be sent to dfatani@kfshrc.edu.sa

D. Fatani

Anders Mellgren

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Executive Director  
Cancer Center of Excellence

## **I. KING FAISAL SPECIALIST HOSPITAL & RESEARCH CENTRE TUMOR REGISTRY**

The King Faisal Specialist Hospital and Research Centre (KFSH&RC) opened in June 1975 to provide specialized medical treatment to the people of Saudi Arabia and promote disease prevention through research and education. It is a national and international tertiary care hospital for Oncology and the principal center for cancer therapy in Saudi Arabia.

The mission of the Tumor Registry, a hospital-wide data system, is to describe the burden of cancer in KFSH&RC by collecting complete and high-quality cancer data and compiling timely statistics so that data-driven, evidence-based cancer prevention and control programs can be implemented to reduce cancer morbidity and mortality.

The Registry was established to meet one of the requirements for an Approved Cancer Program of the American College of Surgeons (ACoS). The database now includes 125,003 malignant cases seen at KFSH&RC from June 1975 through December 31, 2024.

The Registry is primarily staffed with tumor registrars who support the database in case ascertainment, abstracting, follow-up, and statistical analyses. The basic source document is the patient's medical record, from which pertinent information is abstracted for use in the Registry. The electronic data system used was Cansur 3.0, designed by the ACoS, for cases from 1975 to 2007. Starting with 2008 cases, the software used is CNExT, developed by C/NET Solutions, part of the U.S. Public Health Institute.

The data maintained in the Tumor Registry provides the statistics for the publication of the KFSH&RC Annual Report, which summarizes the hospital's cancer experience. The data also supports various reports at the request of physicians, researchers, and ancillary personnel. These reports support patient management and outcomes, basic and clinical research investigations, educational publications and presentations, and resource utilization. In 2024, the Tumor Registry supported a myriad of data requests. It also identified and reported to the Saudi Cancer Registry 5,129 new cases seen in 2024.

## **II. ACKNOWLEDGEMENTS**

The cancer program is a combined effort of the extraordinary team of professionals at the King Faisal Specialist Hospital and Research Centre. It is not possible to enumerate all those involved in providing hope and healing to cancer patients and their families. The Tumor Registry staff greatly appreciates the tireless efforts of caring professionals from all disciplines for their dedication, commitment, and collaboration to ensure the highest standards in community outreach, clinical trials, staff education, patient care improvement, outcome analysis, and tumor registry quality.

Our team's clinical expertise and proficiency, coupled with an incredible dedication to patient care and service excellence, allow the Oncology Centre to achieve remarkable outcomes and consistently exceed the needs and expectations of patients and their families.

The information in this report includes cancer incidence, site, and extent of disease at diagnosis, treatment, cancer trends, and outcomes to better understanding of the changing patterns of cancer.

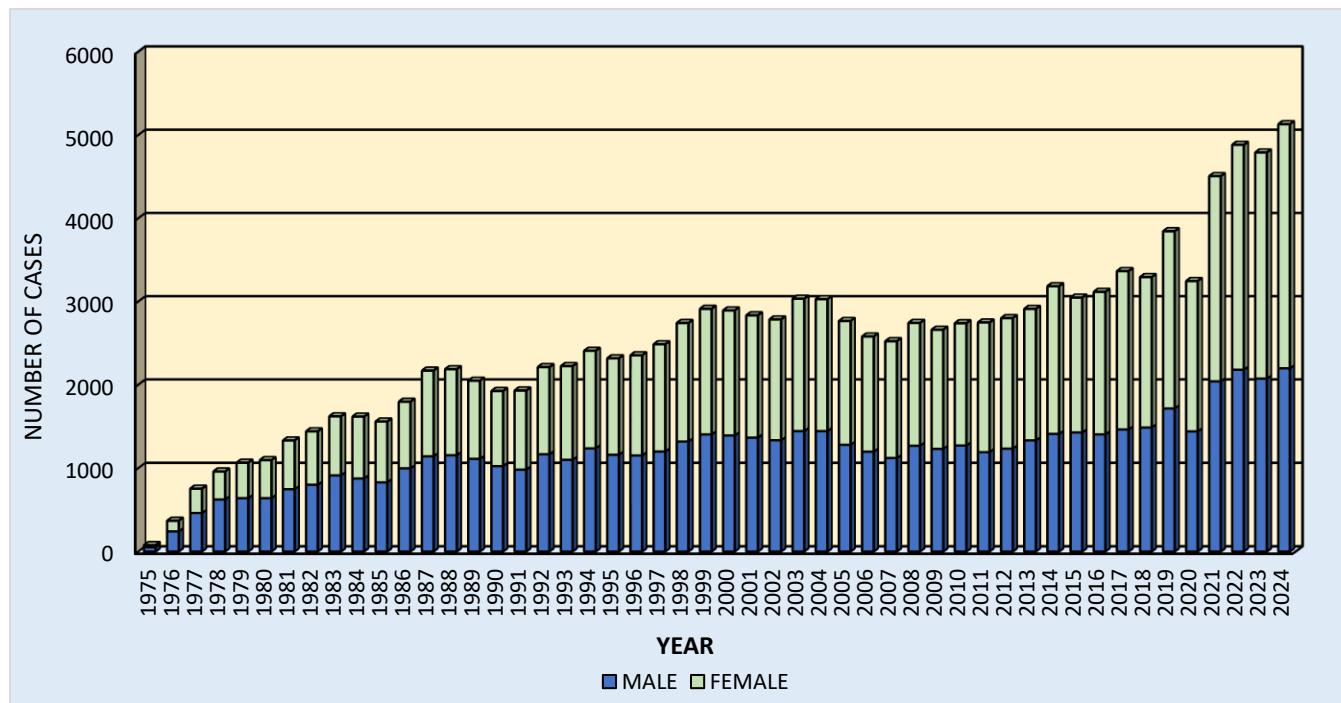
The following departments have assisted throughout the year, and without their support, this report would not have been possible. The Tumor Registry staff takes pride in acknowledging these departments:

- Department of Pathology and Laboratory Medicine
- Medical Records Services
- Patients Acceptance Affairs
- Information Technology Affairs
- Central Data Unit, Department of Pediatric Hematology/Oncology
- Radiation Oncology Department
- Radiology Department
- Saudi Cancer Registry
- Home Health Care
- Cancer Center of Excellence

### III. KFSH&RC CANCER PATIENT POPULATION

A total of 5,129 cases were accessioned in 2024, with 2,197 males and 2,932 females or a male/female ratio of 0.7:1.

**FIGURE 1**  
**DISTRIBUTION OF CASES ACCESSIONED BY YEAR**  
**1975-2024 (TOTAL CASES = 125,003)**



From the hospital's opening (mid-1975) until December 2024, 125,003 cancer cases were registered (59,910 males and 65,093 females), with a male/female ratio of 0.9:1.

There were 13,288 (10.6%) pediatric cases (0 to 13 years of age) and 111,715 (89.4%) adults (14 years old and above). In 2024, the proportions were 6.1% (313) for pediatrics and 93.9% (4,816) for adults.

**TABLE 1**  
**CASES SEEN AT KFSH&RC (MALE/FEMALE & PEDIATRICS/ADULTS)**  
BY 5-YEAR PERIOD (1975-2024)

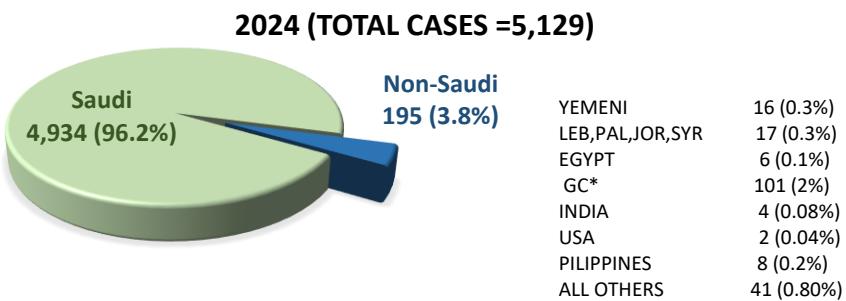
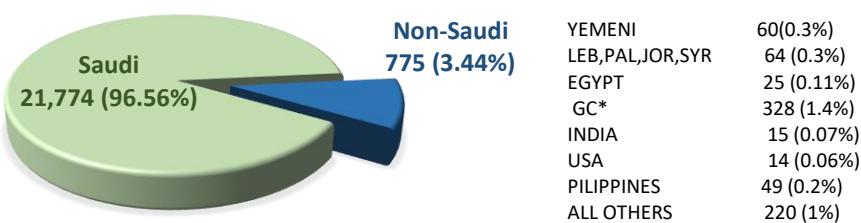
|                      | 1975-1976*   | 1977-1981    | 1982-1986    | 1987-1991     | 1992-1996     | 1997-2001     | 2002 - 2006   | 2007-2011     | 2012-2016     | 2017-2021     | 2022-2024**   | TOTAL          |
|----------------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| MALE                 | 293          | 3,111        | 4,417        | 5,414         | 5,814         | 6,680         | 6,698         | 6,081         | 6,808         | 8,144         | 6,450         | 59,910         |
| FEMALE               | 151          | 2,091        | 3,613        | 4,842         | 5,697         | 7,182         | 7,490         | 7,328         | 8,245         | 10,105        | 8,349         | 65,093         |
| <b>TOTAL</b>         | <b>444</b>   | <b>5,202</b> | <b>8,030</b> | <b>10,256</b> | <b>11,511</b> | <b>13,862</b> | <b>14,188</b> | <b>13,409</b> | <b>15,053</b> | <b>18,249</b> | <b>14,799</b> | <b>125,003</b> |
| <b>M/F RATIO</b>     | <b>1.9:1</b> | <b>1.4:1</b> | <b>1.2:1</b> | <b>1.1:1</b>  | <b>1.0:1</b>  | <b>0.9:1</b>  | <b>0.8:1</b>  | <b>0.8:1</b>  | <b>0.8:1</b>  | <b>0.8:1</b>  | <b>0.8:1</b>  | <b>0.9:1</b>   |
| <b>PEDIATRICS***</b> | 57           | 601          | 1,039        | 1,312         | 1,397         | 1,863         | 1,835         | 1,564         | 1,341         | 1,343         | 936           | 13,288         |
| (%)                  | 12.84%       | 11.55%       | 12.94%       | 12.79%        | 12.14%        | 13.44%        | 12.93%        | 11.66%        | 8.91%         | 7.36%         | 6.32%         | 12.27%         |
| <b>ADULTS</b>        | 387          | 4,601        | 6,991        | 8,944         | 10,114        | 11,999        | 12,353        | 11,845        | 13,712        | 16,906        | 13,863        | 111,715        |
| (%)                  | 87.16%       | 88.45%       | 87.06%       | 87.21%        | 87.86%        | 86.56%        | 87.07%        | 88.34%        | 91.09%        | 92.64%        | 93.68%        | 89.37%         |
| <b>TOTAL</b>         | <b>444</b>   | <b>5,202</b> | <b>8,030</b> | <b>10,256</b> | <b>11,511</b> | <b>13,862</b> | <b>14,188</b> | <b>13,409</b> | <b>15,053</b> | <b>18,249</b> | <b>14,799</b> | <b>125,003</b> |

\* First two years of KFSH&RC partial operation.

\*\* The last period from 2022 to 2024 represents a three-year interval.

\*\*\* Pediatrics = 0 to 13 years of age; Adults = 14 years and above.

**FIGURE 2**  
**DISTRIBUTION OF CASES BY NATIONALITY**  
BY 5-YEAR PERIOD (2020-2024) TOTAL CASES =22,549



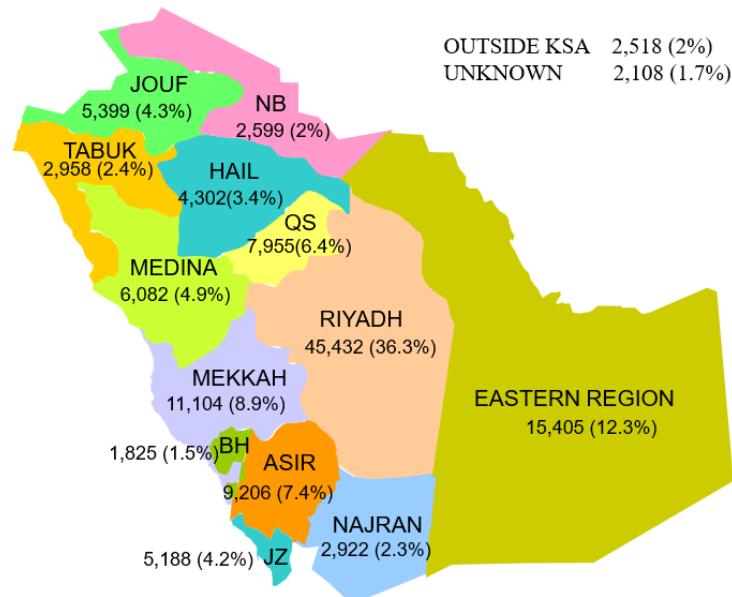
\*GC: Gulf countries (Bahrain, Kuwait, Qatar, Oman and United Arab Emirates).

Geographically, the referral pattern in 2024 was mainly from the Riyadh region with 45.7% of all cases, followed by the Eastern Province with 9.7% then the Asir region with 7.7% respectively. During the 49 years in review, 36.3% were referred from Riyadh, 12.3% from the Eastern Province and 8.9% from Mekkah.

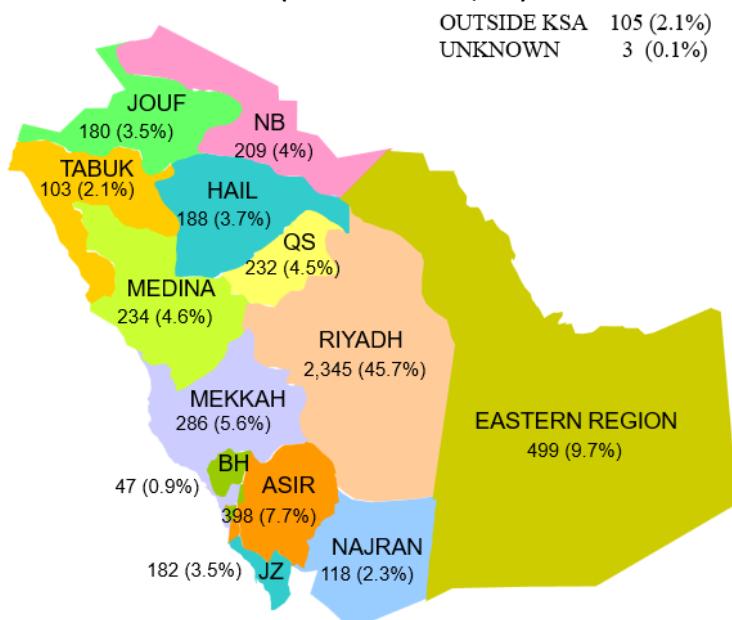
These percentages reflect the KFSH&RC's experience rather than being adjusted to reflect the population of those regions.

**FIGURE 3**  
**DISTRIBUTION OF CASES BY REGION**  
 (Based on Given Address at Time of Diagnosis)

**1975-2024 (TOTAL CASES = 125,003)**



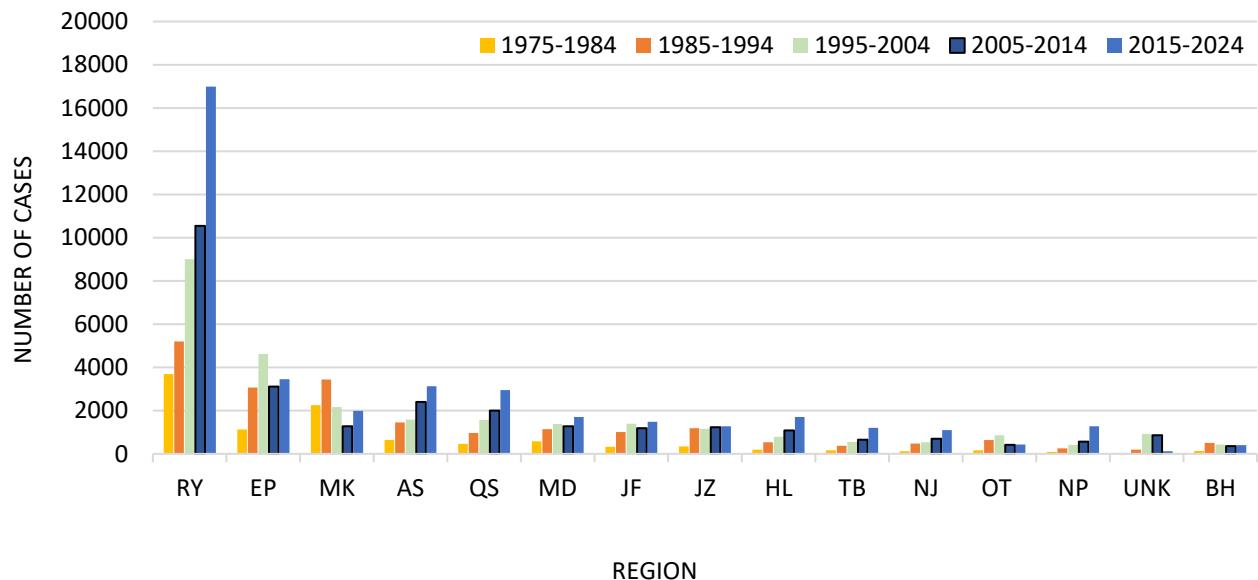
**2024 (TOTAL CASES = 5,129)**



BH-ALBAHA, NB-NORTHERN BORDERS  
 JZ-JAZAN, QS- QASSIM

**FIGURE 4**  
**DISTRIBUTION OF CASES BY REGION**  
(1975-2024)

**DISTRIBUTION OF CASES FROM 1975-2024 BY REGION (10 YEAR INTERVAL)**



RY: Riyadh, ER: Eastern Region, MK: Makkah, AS: Asir, QS: Qassim, MD: Madinah, JF: Jouf, JZ: Jazan, HL: Hail, TB: Tabouk, NJ: Najran, OT: Other, NB: Northern Borders, UNK: Unknown, BH: Baha

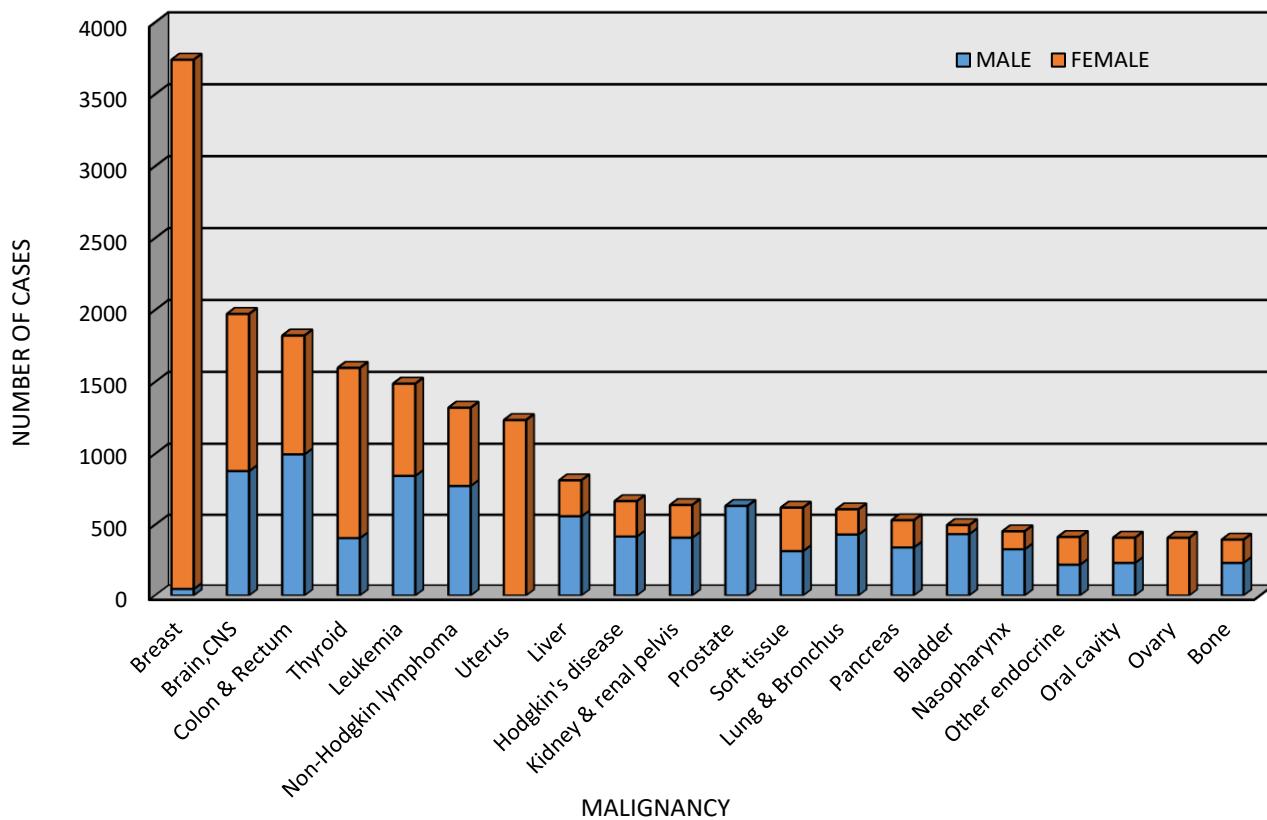
#### **IV. TRENDS IN RELATIVE FREQUENCY OF CANCER AT KFSH&RC**

Acceptance of cases to KFSH&RC is based on eligibility criteria, considering the nature of the disease and availability of services.

Breast cancer led the list of total cancer cases seen from 2020 to 2024 with (16.6%), followed by Brain & CNS (8.7%), Colon & Rectum (8.1%), Thyroid (7.1%), and Leukemia (6.6%)

**FIGURE 5**  
**DISTRIBUTION OF 20 MOST COMMON MALIGNANCIES**

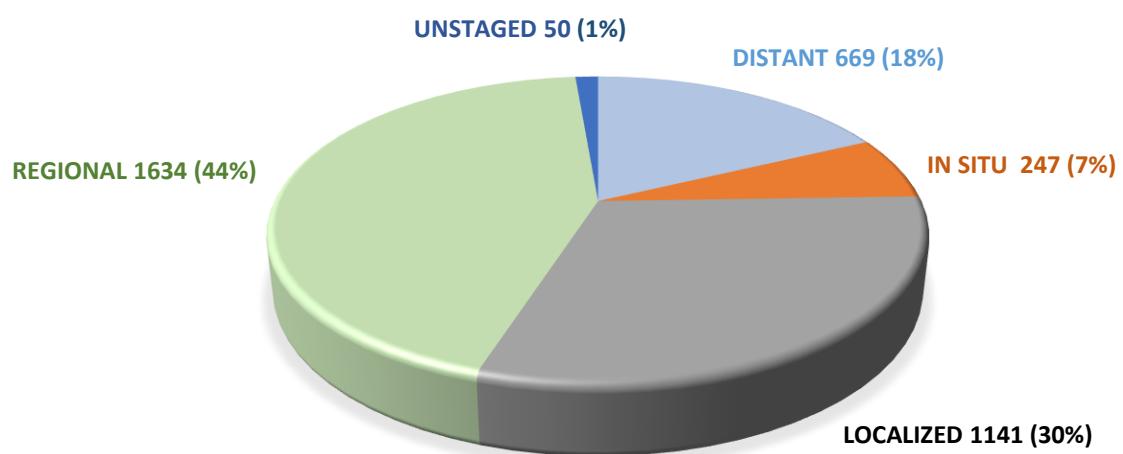
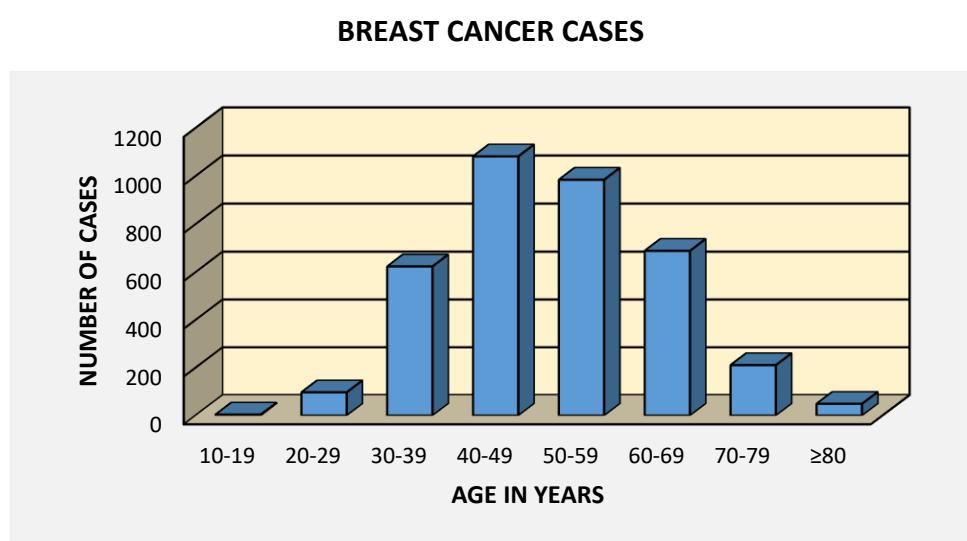
5-YEAR PERIOD (2020-2024) TOTAL CASES = 22,549

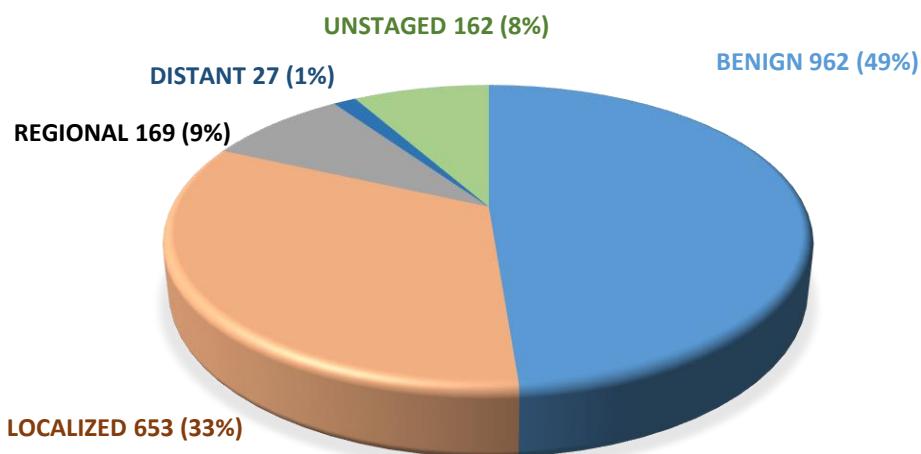
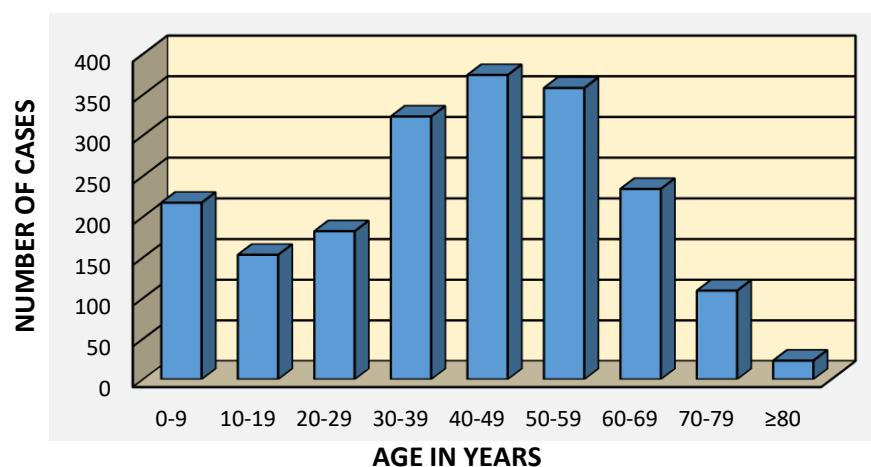


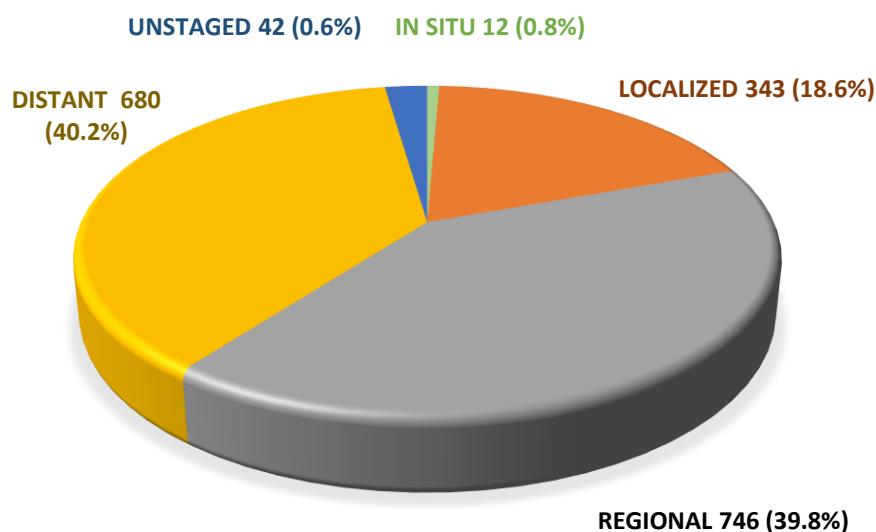
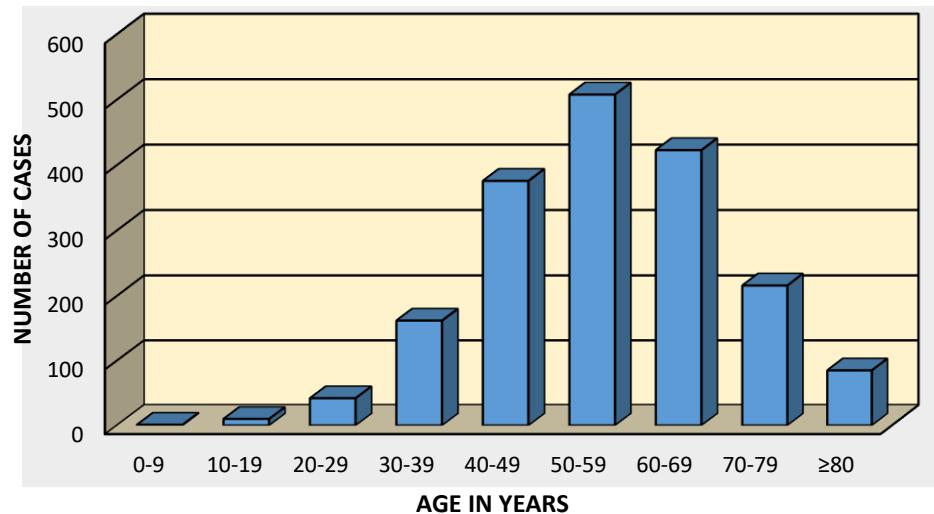
\*Other Endocrine: include (Parathyroid, Adrenal) excluding Thyroid.

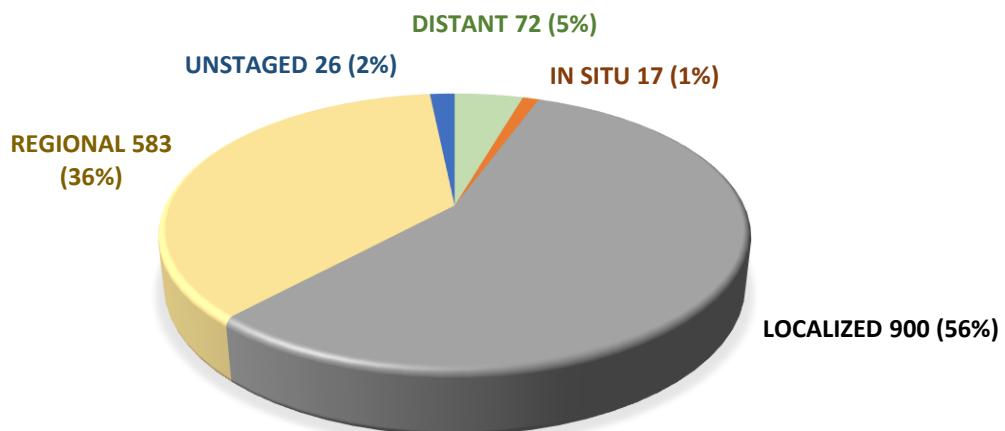
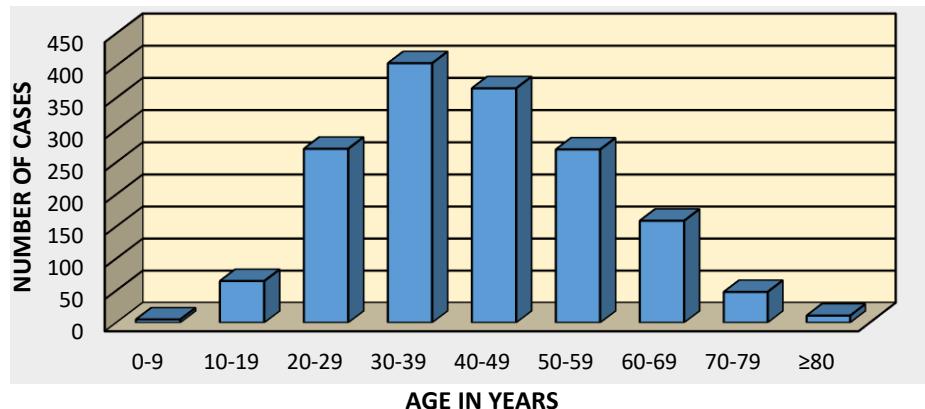
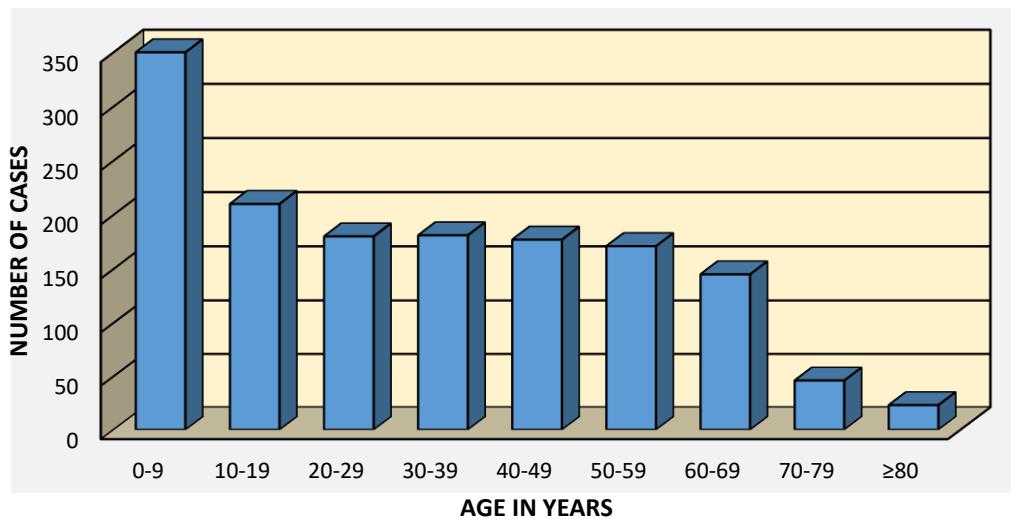
\* Brain, CNS: includes Benign Tumors.

**FIGURE 6**  
**DISTRIBUTION OF 5 MOST COMMON MALIGNANCIES**  
**BY AGE AT DIAGNOSIS AND SEER SUMMARY STAGE**  
**5-YEAR PERIOD (2020 – 2024)**



**BRAIN & CNS CASES**

**COLON & RECTUM CANCER CASES**

**THYROID CANCER CASES****LEUKEMIA CASES**

Reference: SEER Summary stage 2018  
 Leukemia: include all sub-types (ALL, AML, CLL, CML)

**FIGURE 7**  
**TEN MOST COMMON MALIGNANCIES**  
**BY AGE GROUP AT DIAGNOSIS**  
**5-YEAR PERIOD (2020-2024)**

| BREAST       |      |
|--------------|------|
| 0-13 (CHILD) | 0    |
| 14-19 (TEEN) | 4    |
| 20-29        | 97   |
| 30-39        | 624  |
| 40-49        | 1082 |
| 50-59        | 985  |
| 60-69        | 689  |
| 70-79        | 211  |
| +80          | 49   |

| BRAIN,CNS    |     |
|--------------|-----|
| 0-13 (CHILD) | 287 |
| 14-19 (TEEN) | 83  |
| 20-29        | 182 |
| 30-39        | 323 |
| 40-49        | 374 |
| 50-59        | 358 |
| 60-69        | 234 |
| 70-79        | 109 |
| +80          | 23  |

| COLON & RECTUM |     |
|----------------|-----|
| 0-13 (CHILD)   | 6   |
| 14-19 (TEEN)   | 5   |
| 20-29          | 42  |
| 30-39          | 162 |
| 40-49          | 376 |
| 50-59          | 508 |
| 60-69          | 423 |
| 70-79          | 216 |
| +80            | 85  |

| THYROID      |     |
|--------------|-----|
| 0-13 (CHILD) | 16  |
| 14-19 (TEEN) | 54  |
| 20-29        | 271 |
| 30-39        | 404 |
| 40-49        | 365 |
| 50-59        | 270 |
| 60-69        | 159 |
| 70-79        | 48  |
| +80          | 11  |

| LEUKEMIA     |     |
|--------------|-----|
| 0-13 (CHILD) | 423 |
| 14-19 (TEEN) | 142 |
| 20-29        | 180 |
| 30-39        | 181 |
| 40-49        | 177 |
| 50-59        | 171 |
| 60-69        | 145 |
| 70-79        | 46  |
| +80          | 23  |

| NON-HODGKIN LYMPHOMA |     |
|----------------------|-----|
| 0-13 (CHILD)         | 128 |
| 14-19 (TEEN)         | 73  |
| 20-29                | 158 |
| 30-39                | 203 |
| 40-49                | 192 |
| 50-59                | 249 |
| 60-69                | 205 |
| 70-79                | 76  |
| +80                  | 37  |

| UTERUS       |     |
|--------------|-----|
| 0-13 (CHILD) | 0   |
| 14-19 (TEEN) | 0   |
| 20-29        | 18  |
| 30-39        | 112 |
| 40-49        | 171 |
| 50-59        | 292 |
| 60-69        | 429 |
| 70-79        | 162 |
| +80          | 51  |

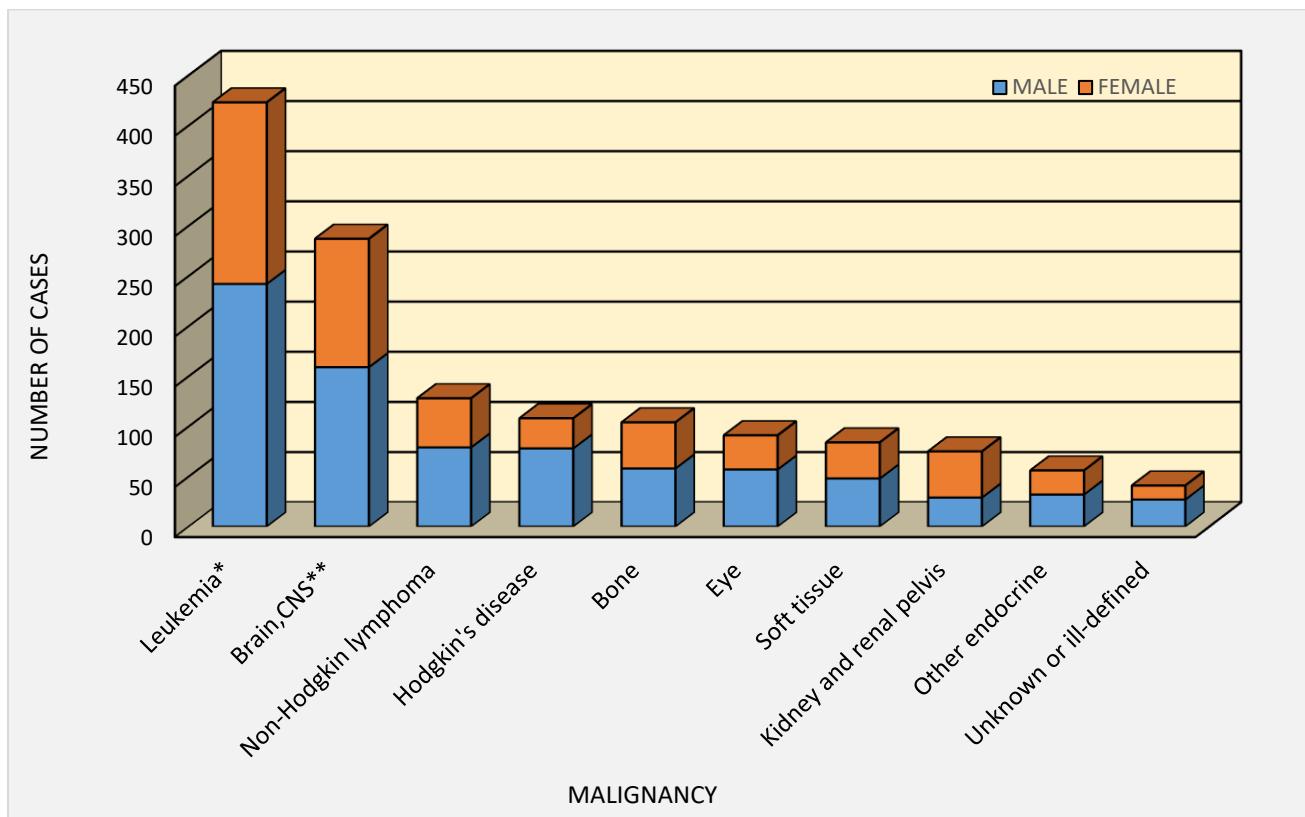
| LIVER        |     |
|--------------|-----|
| 0-13 (CHILD) | 24  |
| 14-19 (TEEN) | 8   |
| 20-29        | 14  |
| 30-39        | 17  |
| 40-49        | 47  |
| 50-59        | 193 |
| 60-69        | 301 |
| 70-79        | 152 |
| +80          | 58  |

| HODGKIN LYMPHOMA |     |
|------------------|-----|
| 0-13 (CHILD)     | 108 |
| 14-19 (TEEN)     | 113 |
| 20-29            | 186 |
| 30-39            | 136 |
| 40-49            | 58  |
| 50-59            | 36  |
| 60-69            | 26  |
| 70-79            | 4   |
| +80              | 0   |

| KIDNEY       |     |
|--------------|-----|
| 0-13 (CHILD) | 75  |
| 14-19 (TEEN) | 5   |
| 20-29        | 19  |
| 30-39        | 81  |
| 40-49        | 126 |
| 50-59        | 138 |
| 60-69        | 126 |
| 70-79        | 62  |
| +80          | 8   |

Cancer among pediatrics (under the age of 14) accounted for 6.7% of all cases from 2020 to 2024. The five most common pediatric malignancies were Leukemia (28.03%), Brain, CNS (19.02%), Non-Hodgkin lymphoma (8.5%), Hodgkin Lymphoma (7.2%), and Bone (6.9%).

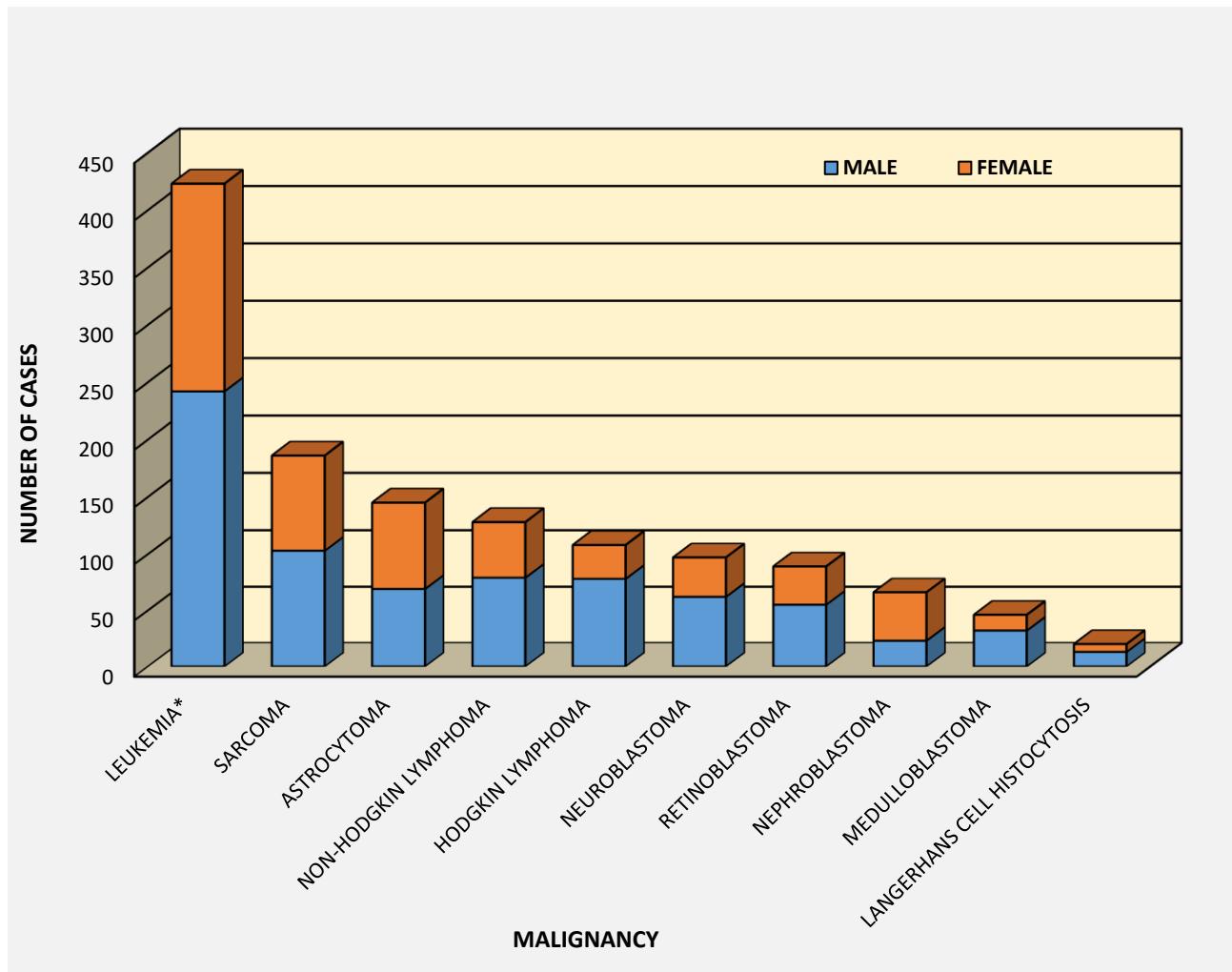
**FIGURE 8**  
**DISTRIBUTION OF 10 MOST COMMON PEDIATRIC MALIGNANCIES**  
 BY 5-YEAR PERIOD (2020 – 2024) TOTAL CASES= 1,509



\*Leukemia: include all sub-types (ALL, AML, CLL, CML).

\*\*Brain, CNS: includes Benign Tumors.

**FIGURE 9**  
**DISTRIBUTION OF 10 MOST COMMON PEDIATRIC MALIGNANCIES**  
 BY Sub-Types  
 5-YEAR PERIOD (2020-2024) TOTAL CASES = 1,509



\*Leukemia: include all sub-types (ALL, AML, CLL, CML).

**TABLE 2**  
**CASES SEEN AT KFSH&RC BY SITE AND YEAR**  
(1975-2024)

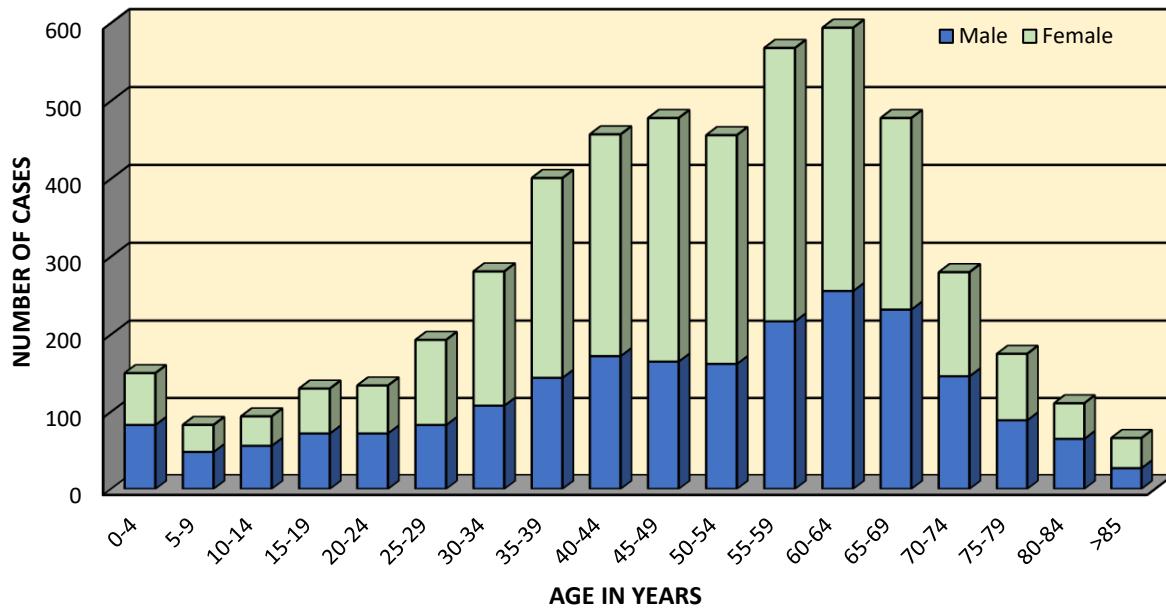
| Site Group                 | 1975      | 1976       | 1977       | 1978       | 1979        | 1980        | 1981        | 1982        | 1983        | 1984        | 1985        | 1986        | 1987        | 1988        | 1989        | 1990        | 1991        |
|----------------------------|-----------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Oral Cavity                | 1         | 8          | 21         | 59         | 43          | 53          | 43          | 59          | 74          | 52          | 80          | 56          | 76          | 95          | 83          | 75          | 86          |
| Tonsil                     | 0         | 1          | 2          | 4          | 7           | 3           | 4           | 3           | 6           | 2           | 5           | 4           | 3           | 3           | 2           | 5           | 0           |
| Nasopharynx                | 3         | 16         | 49         | 51         | 56          | 51          | 60          | 66          | 87          | 70          | 64          | 70          | 101         | 98          | 85          | 88          | 80          |
| Esophagus                  | 1         | 15         | 51         | 62         | 67          | 67          | 57          | 62          | 77          | 78          | 56          | 69          | 76          | 66          | 68          | 72          | 66          |
| Stomach                    | 2         | 15         | 32         | 35         | 50          | 37          | 49          | 51          | 64          | 60          | 49          | 64          | 61          | 48          | 52          | 53          | 36          |
| Small intestine            | 0         | 0          | 4          | 0          | 2           | 2           | 2           | 1           | 1           | 5           | 3           | 5           | 2           | 1           | 6           | 4           | 1           |
| Colon & Rectum             | 1         | 13         | 21         | 20         | 28          | 37          | 45          | 37          | 36          | 52          | 39          | 45          | 72          | 79          | 58          | 58          | 76          |
| Anus,anal canal,anorectum  | 0         | 0          | 1          | 4          | 3           | 1           | 7           | 4           | 7           | 9           | 7           | 7           | 4           | 4           | 5           | 8           | 6           |
| Liver                      | 7         | 15         | 33         | 44         | 49          | 33          | 41          | 54          | 53          | 64          | 57          | 84          | 78          | 71          | 68          | 56          | 69          |
| Gallbladder                | 0         | 2          | 3          | 4          | 2           | 2           | 4           | 6           | 4           | 4           | 6           | 7           | 14          | 9           | 5           | 9           | 9           |
| Bile ducts                 | 1         | 1          | 0          | 2          | 2           | 4           | 1           | 2           | 3           | 4           | 4           | 6           | 6           | 6           | 2           | 4           | 2           |
| Pancreas                   | 1         | 5          | 7          | 11         | 15          | 14          | 20          | 22          | 14          | 20          | 16          | 28          | 20          | 17          | 29          | 13          | 14          |
| Peritoneum,Retroperitoneum | 0         | 0          | 2          | 1          | 2           | 1           | 0           | 0           | 2           | 1           | 0           | 1           | 1           | 1           | 1           | 1           | 0           |
| Other digestive            | 0         | 0          | 0          | 2          | 2           | 5           | 4           | 1           | 1           | 0           | 3           | 1           | 4           | 3           | 6           | 2           | 1           |
| Nasal cavity,sinus,ear     | 1         | 3          | 9          | 7          | 5           | 7           | 9           | 10          | 10          | 5           | 7           | 5           | 16          | 14          | 8           | 13          | 12          |
| Larynx                     | 1         | 5          | 12         | 12         | 12          | 14          | 20          | 13          | 23          | 22          | 25          | 16          | 23          | 33          | 21          | 26          | 35          |
| Lung/bronchus              | 3         | 11         | 23         | 34         | 45          | 40          | 56          | 63          | 74          | 74          | 87          | 84          | 85          | 106         | 90          | 74          | 85          |
| Pleura                     | 0         | 0          | 1          | 0          | 0           | 0           | 0           | 0           | 1           | 1           | 0           | 1           | 0           | 1           | 2           | 2           | 0           |
| Other respir & thoracic    | 0         | 0          | 0          | 1          | 1           | 1           | 3           | 1           | 1           | 0           | 4           | 0           | 6           | 2           | 2           | 3           | 9           |
| Leukemia                   | 8         | 32         | 48         | 94         | 98          | 94          | 136         | 134         | 132         | 144         | 140         | 197         | 224         | 191         | 187         | 168         | 197         |
| Myeloma                    | 1         | 5          | 6          | 11         | 9           | 11          | 8           | 13          | 13          | 12          | 19          | 13          | 29          | 22          | 33          | 15          | 28          |
| Bone                       | 1         | 7          | 15         | 27         | 25          | 21          | 28          | 45          | 36          | 47          | 25          | 39          | 48          | 52          | 49          | 46          | 47          |
| Soft tissue                | 4         | 19         | 29         | 38         | 39          | 38          | 43          | 46          | 55          | 66          | 65          | 76          | 102         | 92          | 118         | 112         | 105         |
| Skin                       | 2         | 17         | 31         | 40         | 50          | 42          | 55          | 58          | 62          | 64          | 69          | 69          | 54          | 55          | 59          | 47          | 58          |
| Kaposi's sarcoma           | 0         | 1          | 1          | 0          | 6           | 4           | 2           | 2           | 5           | 4           | 5           | 9           | 5           | 9           | 5           | 4           | 5           |
| Breast                     | 3         | 24         | 53         | 46         | 57          | 65          | 101         | 111         | 111         | 153         | 131         | 127         | 174         | 194         | 137         | 168         | 169         |
| Uterus                     | 1         | 11         | 20         | 23         | 31          | 22          | 34          | 33          | 44          | 47          | 51          | 65          | 68          | 71          | 54          | 62          | 48          |
| Ovary                      | 2         | 7          | 11         | 10         | 17          | 21          | 21          | 36          | 31          | 28          | 24          | 36          | 43          | 50          | 54          | 51          | 41          |
| Vagina                     | 0         | 0          | 5          | 2          | 0           | 1           | 2           | 0           | 2           | 2           | 3           | 1           | 2           | 1           | 2           | 3           | 3           |
| Vulva                      | 0         | 0          | 0          | 1          | 1           | 0           | 2           | 1           | 3           | 2           | 5           | 5           | 1           | 2           | 1           | 4           | 5           |
| Other female genital       | 0         | 1          | 5          | 4          | 9           | 8           | 7           | 8           | 24          | 9           | 7           | 17          | 24          | 17          | 15          | 9           | 16          |
| Prostate                   | 0         | 7          | 5          | 4          | 5           | 10          | 11          | 18          | 28          | 19          | 19          | 17          | 22          | 27          | 27          | 24          | 16          |
| Testis                     | 0         | 3          | 9          | 8          | 10          | 11          | 15          | 11          | 7           | 12          | 14          | 14          | 17          | 17          | 9           | 14          | 14          |
| Penis                      | 0         | 1          | 1          | 0          | 1           | 0           | 2           | 2           | 3           | 4           | 0           | 0           | 0           | 2           | 2           | 5           | 2           |
| Other male genital         | 0         | 0          | 0          | 0          | 2           | 0           | 1           | 0           | 1           | 0           | 3           | 0           | 3           | 0           | 2           | 0           | 0           |
| Bladder                    | 4         | 7          | 12         | 24         | 29          | 40          | 37          | 23          | 41          | 36          | 46          | 51          | 79          | 74          | 73          | 60          | 45          |
| Kidney and renal pelvis    | 0         | 9          | 18         | 18         | 18          | 15          | 18          | 30          | 23          | 20          | 24          | 41          | 31          | 58          | 32          | 36          | 33          |
| Ureter                     | 0         | 0          | 0          | 0          | 0           | 0           | 0           | 0           | 0           | 1           | 1           | 0           | 3           | 1           | 1           | 0           | 1           |
| Other urinary              | 0         | 0          | 0          | 0          | 0           | 0           | 0           | 0           | 0           | 1           | 0           | 1           | 0           | 0           | 1           | 0           | 1           |
| Eye                        | 0         | 6          | 11         | 19         | 12          | 24          | 29          | 34          | 25          | 17          | 30          | 25          | 35          | 45          | 26          | 30          | 9           |
| Brain,CNS                  | 4         | 29         | 35         | 57         | 38          | 41          | 56          | 107         | 71          | 73          | 68          | 102         | 135         | 136         | 137         | 116         | 120         |
| Thyroid                    | 2         | 8          | 17         | 29         | 37          | 47          | 59          | 54          | 68          | 71          | 64          | 88          | 121         | 117         | 113         | 95          | 114         |
| Other endocrine            | 2         | 11         | 14         | 11         | 20          | 27          | 30          | 31          | 38          | 47          | 35          | 37          | 41          | 53          | 33          | 40          | 46          |
| Hodgkin's disease          | 13        | 19         | 40         | 41         | 36          | 42          | 47          | 42          | 54          | 50          | 49          | 45          | 65          | 57          | 76          | 56          | 57          |
| Non-hodgkin's lymphoma     | 4         | 23         | 73         | 75         | 103         | 112         | 128         | 116         | 172         | 139         | 124         | 142         | 157         | 153         | 165         | 154         | 123         |
| Unknown or ill-defined     | 3         | 11         | 23         | 24         | 20          | 27          | 34          | 30          | 33          | 26          | 25          | 25          | 38          | 33          | 43          | 39          | 40          |
| <b>TOTAL</b>               | <b>76</b> | <b>368</b> | <b>753</b> | <b>959</b> | <b>1064</b> | <b>1095</b> | <b>1331</b> | <b>1440</b> | <b>1620</b> | <b>1617</b> | <b>1558</b> | <b>1795</b> | <b>2169</b> | <b>2186</b> | <b>2047</b> | <b>1924</b> | <b>1930</b> |

| Site Group                  | 1992        | 1993        | 1994        | 1995        | 1996        | 1997        | 1998        | 1999        | 2000        | 2001        | 2002        | 2003        | 2004        | 2005        | 2006        | 2007        | 2008        |
|-----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Oral Cavity                 | 96          | 72          | 74          | 94          | 81          | 87          | 69          | 92          | 100         | 69          | 68          | 99          | 78          | 101         | 82          | 103         | 90          |
| Tonsil                      | 2           | 3           | 2           | 4           | 0           | 5           | 2           | 1           | 2           | 4           | 5           | 8           | 0           | 5           | 1           | 5           | 4           |
| Nasopharynx                 | 82          | 85          | 80          | 85          | 113         | 109         | 124         | 119         | 98          | 143         | 87          | 111         | 117         | 97          | 91          | 84          | 89          |
| Esophagus                   | 69          | 47          | 50          | 50          | 52          | 52          | 62          | 34          | 52          | 37          | 42          | 43          | 37          | 41          | 36          | 30          | 31          |
| Stomach                     | 49          | 42          | 68          | 61          | 59          | 47          | 42          | 56          | 54          | 40          | 50          | 60          | 68          | 57          | 59          | 48          | 52          |
| Small intestine             | 5           | 4           | 4           | 6           | 6           | 4           | 7           | 7           | 9           | 5           | 3           | 5           | 9           | 6           | 4           | 5           | 6           |
| Colon & Rectum              | 83          | 72          | 88          | 88          | 91          | 96          | 120         | 145         | 154         | 154         | 205         | 206         | 191         | 197         | 191         | 182         | 166         |
| Anus, anal canal, anorectum | 7           | 12          | 10          | 5           | 6           | 6           | 7           | 4           | 7           | 7           | 8           | 14          | 5           | 5           | 3           | 5           | 5           |
| Liver                       | 83          | 82          | 105         | 102         | 105         | 96          | 84          | 90          | 85          | 92          | 73          | 70          | 60          | 37          | 69          | 50          | 73          |
| Gallbladder                 | 13          | 19          | 21          | 9           | 11          | 11          | 12          | 15          | 13          | 11          | 12          | 15          | 14          | 8           | 8           | 11          | 10          |
| Bile ducts                  | 7           | 2           | 7           | 3           | 9           | 7           | 10          | 9           | 8           | 9           | 10          | 7           | 4           | 8           | 6           | 11          | 7           |
| Pancreas                    | 27          | 21          | 23          | 26          | 21          | 24          | 34          | 18          | 38          | 26          | 31          | 30          | 34          | 27          | 42          | 26          | 33          |
| Peritoneum, Retroperitoneum | 2           | 1           | 0           | 2           | 0           | 0           | 1           | 2           | 2           | 1           | 1           | 1           | 4           | 4           | 3           | 3           | 3           |
| Other digestive             | 2           | 4           | 0           | 3           | 0           | 0           | 0           | 0           | 0           | 2           | 0           | 3           | 4           | 2           | 1           | 1           | 4           |
| Nasal cavity, sinus, ear    | 9           | 10          | 11          | 10          | 9           | 4           | 10          | 14          | 11          | 9           | 11          | 10          | 9           | 13          | 13          | 12          | 9           |
| Larynx                      | 27          | 31          | 35          | 37          | 36          | 31          | 30          | 36          | 32          | 33          | 26          | 47          | 41          | 36          | 26          | 32          | 31          |
| Lung/bronchus               | 79          | 85          | 89          | 87          | 84          | 88          | 106         | 108         | 91          | 80          | 91          | 86          | 94          | 84          | 64          | 60          | 63          |
| Pleura                      | 3           | 4           | 3           | 1           | 2           | 1           | 1           | 2           | 3           | 8           | 1           | 4           | 3           | 3           | 1           | 3           | 2           |
| Other respir & thoracic     | 7           | 7           | 8           | 4           | 4           | 8           | 8           | 9           | 2           | 1           | 5           | 2           | 4           | 3           | 4           | 1           | 6           |
| Leukemia                    | 175         | 204         | 180         | 225         | 181         | 242         | 257         | 289         | 272         | 252         | 270         | 268         | 230         | 214         | 237         | 215         | 253         |
| Myeloma                     | 26          | 25          | 40          | 30          | 21          | 14          | 23          | 16          | 28          | 20          | 19          | 20          | 23          | 23          | 22          | 31          | 18          |
| Bone                        | 65          | 59          | 68          | 65          | 63          | 74          | 79          | 72          | 80          | 94          | 83          | 66          | 74          | 72          | 72          | 56          | 86          |
| Soft tissue                 | 67          | 62          | 83          | 96          | 62          | 80          | 86          | 101         | 84          | 79          | 70          | 83          | 89          | 75          | 58          | 85          | 63          |
| Skin                        | 64          | 61          | 68          | 51          | 66          | 57          | 40          | 65          | 57          | 67          | 44          | 57          | 57          | 61          | 74          | 35          | 49          |
| Kaposi's sarcoma            | 14          | 2           | 3           | 6           | 11          | 6           | 8           | 8           | 4           | 7           | 9           | 9           | 6           | 8           | 9           | 7           | 7           |
| Breast                      | 188         | 251         | 241         | 232         | 282         | 294         | 337         | 343         | 383         | 362         | 378         | 411         | 433         | 379         | 326         | 351         | 358         |
| Uterus                      | 79          | 70          | 78          | 72          | 68          | 73          | 92          | 90          | 76          | 103         | 100         | 114         | 109         | 94          | 97          | 107         | 108         |
| Ovary                       | 46          | 60          | 57          | 58          | 58          | 66          | 66          | 61          | 68          | 63          | 55          | 65          | 63          | 54          | 60          | 55          | 75          |
| Vagina                      | 2           | 0           | 5           | 5           | 2           | 2           | 1           | 2           | 1           | 0           | 1           | 1           | 2           | 1           | 0           | 0           | 0           |
| Vulva                       | 1           | 4           | 5           | 5           | 2           | 1           | 0           | 1           | 2           | 3           | 2           | 2           | 3           | 2           | 0           | 2           | 4           |
| Other female genital        | 15          | 13          | 20          | 7           | 11          | 9           | 7           | 6           | 5           | 5           | 10          | 14          | 13          | 12          | 16          | 8           | 6           |
| Prostate                    | 41          | 27          | 45          | 37          | 49          | 43          | 44          | 63          | 47          | 49          | 49          | 59          | 59          | 75          | 46          | 40          | 60          |
| Testis                      | 21          | 25          | 21          | 14          | 15          | 17          | 16          | 19          | 21          | 18          | 28          | 19          | 21          | 17          | 11          | 17          | 28          |
| Penis                       | 0           | 1           | 3           | 0           | 1           | 3           | 0           | 0           | 2           | 0           | 1           | 1           | 0           | 2           | 0           | 0           | 0           |
| Other male genital          | 0           | 1           | 1           | 0           | 0           | 0           | 1           | 0           | 0           | 1           | 2           | 1           | 2           | 1           | 2           | 0           | 0           |
| Bladder                     | 66          | 88          | 72          | 60          | 56          | 65          | 85          | 91          | 80          | 82          | 71          | 93          | 102         | 89          | 67          | 69          | 71          |
| Kidney and renal pelvis     | 52          | 52          | 65          | 48          | 47          | 50          | 59          | 71          | 57          | 72          | 65          | 55          | 70          | 64          | 67          | 70          | 86          |
| Ureter                      | 1           | 1           | 1           | 1           | 1           | 0           | 3           | 1           | 2           | 3           | 2           | 2           | 1           | 2           | 0           | 1           | 0           |
| Other urinary               | 1           | 0           | 0           | 0           | 0           | 0           | 0           | 2           | 1           | 0           | 0           | 0           | 1           | 2           | 0           | 0           | 0           |
| Eye                         | 15          | 39          | 27          | 15          | 22          | 31          | 17          | 24          | 26          | 17          | 16          | 21          | 18          | 15          | 20          | 11          | 19          |
| Brain, CNS                  | 153         | 140         | 163         | 177         | 178         | 180         | 216         | 212         | 235         | 242         | 219         | 194         | 204         | 164         | 154         | 119         | 143         |
| Thyroid                     | 143         | 136         | 159         | 134         | 162         | 161         | 192         | 211         | 186         | 189         | 169         | 215         | 214         | 216         | 206         | 229         | 254         |
| Other endocrine             | 46          | 30          | 24          | 20          | 31          | 37          | 27          | 29          | 33          | 29          | 32          | 56          | 46          | 45          | 34          | 27          | 55          |
| Hodgkin's disease           | 75          | 73          | 78          | 88          | 76          | 76          | 98          | 116         | 131         | 121         | 121         | 132         | 144         | 130         | 101         | 118         | 118         |
| Non-hodgkin's lymphoma      | 151         | 154         | 160         | 158         | 157         | 193         | 208         | 207         | 204         | 175         | 186         | 206         | 218         | 181         | 167         | 178         | 172         |
| Unknown or ill-defined      | 52          | 42          | 62          | 36          | 42          | 35          | 50          | 50          | 46          | 49          | 53          | 48          | 49          | 33          | 29          | 19          | 25          |
| <b>TOTAL</b>                | <b>2211</b> | <b>2223</b> | <b>2407</b> | <b>2317</b> | <b>2353</b> | <b>2485</b> | <b>2741</b> | <b>2911</b> | <b>2892</b> | <b>2833</b> | <b>2784</b> | <b>3033</b> | <b>3027</b> | <b>2765</b> | <b>2579</b> | <b>2522</b> | <b>2742</b> |

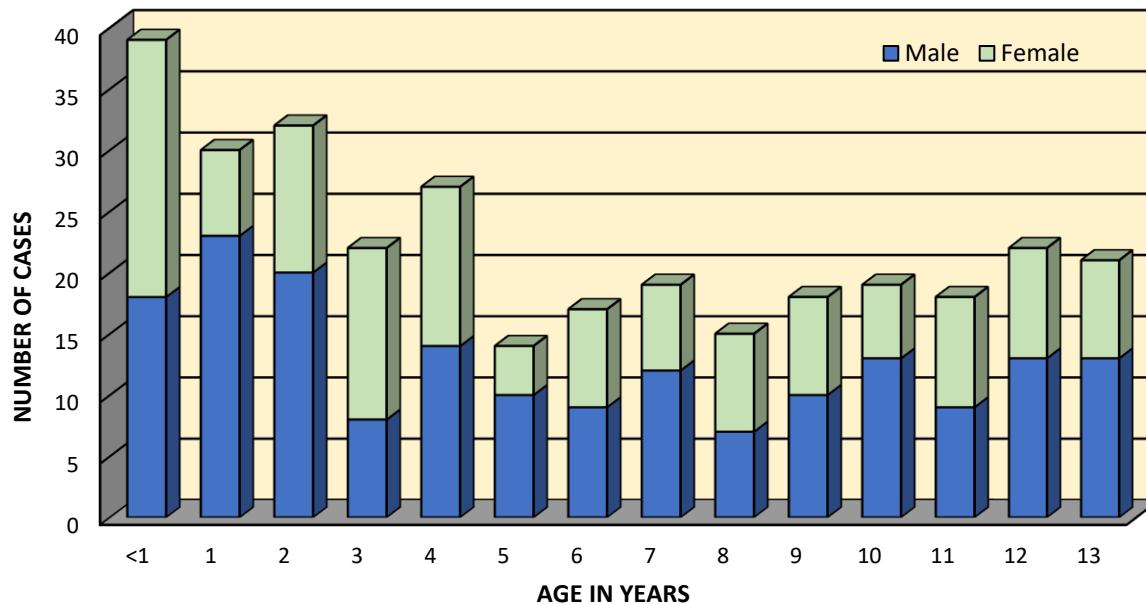
| Site Group                 | 2009        | 2010        | 2011        | 2012        | 2013        | 2014        | 2015        | 2016        | 2017        | 2018        | 2019        | 2020        | 2021        | 2022        | 2023        | 2024        | TOTAL         |
|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|
| Oral Cavity                | 91          | 62          | 87          | 74          | 81          | 87          | 90          | 96          | 77          | 90          | 77          | 85          | 66          | 86          | 89          | 83          | 3740          |
| Tonsil                     | 1           | 0           | 4           | 1           | 3           | 2           | 2           | 1           | 2           | 0           | 1           | 0           | 1           | 3           | 1           | 2           | 131           |
| Nasopharynx                | 67          | 85          | 86          | 70          | 81          | 69          | 68          | 77          | 85          | 80          | 75          | 67          | 105         | 97          | 81          | 104         | 4106          |
| Esophagus                  | 31          | 29          | 31          | 30          | 21          | 30          | 25          | 26          | 30          | 33          | 32          | 29          | 26          | 28          | 29          | 46          | 2251          |
| Stomach                    | 64          | 65          | 59          | 61          | 67          | 76          | 57          | 43          | 40          | 40          | 62          | 42          | 78          | 68          | 55          | 90          | 2637          |
| Small intestine            | 7           | 5           | 9           | 10          | 11          | 21          | 7           | 9           | 11          | 6           | 8           | 14          | 15          | 18          | 20          | 21          | 326           |
| Colon & Rectum             | 188         | 169         | 197         | 202         | 213         | 235         | 267         | 249         | 292         | 207         | 263         | 224         | 369         | 398         | 397         | 435         | 7451          |
| Anus,anal canal,anorectum  | 1           | 4           | 2           | 3           | 5           | 7           | 4           | 10          | 6           | 2           | 3           | 5           | 9           | 14          | 4           | 7           | 279           |
| Liver                      | 89          | 97          | 112         | 107         | 105         | 95          | 104         | 113         | 111         | 133         | 127         | 120         | 186         | 182         | 172         | 154         | 4239          |
| Gallbladder                | 6           | 9           | 11          | 5           | 11          | 23          | 17          | 12          | 21          | 22          | 28          | 28          | 25          | 25          | 19          | 26          | 591           |
| Bile ducts                 | 12          | 13          | 8           | 10          | 9           | 12          | 17          | 16          | 7           | 9           | 19          | 28          | 35          | 26          | 34          | 27          | 456           |
| Pancreas                   | 40          | 38          | 31          | 46          | 61          | 62          | 48          | 50          | 63          | 54          | 81          | 68          | 92          | 116         | 131         | 125         | 1853          |
| Peritoneum,Retroperitoneum | 2           | 3           | 2           | 6           | 9           | 5           | 5           | 16          | 13          | 11          | 10          | 16          | 11          | 9           | 14          | 8           | 184           |
| Other digestive            | 1           | 2           | 0           | 0           | 1           | 0           | 3           | 2           | 9           | 6           | 7           | 1           | 7           | 10          | 8           | 17          | 135           |
| Nasal cavity,sinus,ear     | 8           | 5           | 4           | 7           | 4           | 4           | 11          | 10          | 12          | 14          | 5           | 12          | 13          | 7           | 10          | 12          | 453           |
| Larynx                     | 26          | 10          | 17          | 19          | 21          | 18          | 24          | 20          | 18          | 27          | 18          | 19          | 34          | 32          | 25          | 11          | 1219          |
| Lung/bronchus              | 61          | 63          | 73          | 72          | 82          | 92          | 65          | 79          | 82          | 81          | 109         | 71          | 118         | 131         | 132         | 157         | 3941          |
| Pleura                     | 4           | 1           | 0           | 3           | 3           | 0           | 4           | 1           | 2           | 1           | 2           | 2           | 2           | 2           | 0           | 2           | 83            |
| Other respir & thoracic    | 7           | 9           | 7           | 5           | 5           | 2           | 3           | 6           | 2           | 0           | 3           | 3           | 5           | 7           | 2           | 3           | 186           |
| Leukemia                   | 242         | 267         | 231         | 294         | 269         | 263         | 253         | 293         | 293         | 280         | 275         | 252         | 289         | 326         | 323         | 298         | 10636         |
| Myeloma                    | 39          | 36          | 28          | 16          | 32          | 26          | 25          | 30          | 23          | 30          | 27          | 35          | 48          | 45          | 50          | 47          | 1184          |
| Bone                       | 66          | 72          | 65          | 58          | 50          | 72          | 39          | 54          | 74          | 67          | 70          | 72          | 101         | 73          | 71          | 78          | 2868          |
| Soft tissue                | 62          | 74          | 69          | 74          | 73          | 64          | 68          | 57          | 48          | 73          | 95          | 69          | 96          | 134         | 156         | 163         | 3745          |
| Skin                       | 47          | 46          | 48          | 43          | 53          | 50          | 56          | 56          | 58          | 39          | 58          | 29          | 38          | 38          | 48          | 44          | 2556          |
| Kaposis sarcoma            | 7           | 10          | 5           | 3           | 5           | 13          | 10          | 4           | 8           | 3           | 6           | 5           | 11          | 7           | 6           | 6           | 300           |
| Breast                     | 339         | 377         | 414         | 377         | 433         | 490         | 402         | 422         | 508         | 501         | 595         | 505         | 729         | 840         | 823         | 844         | 15972         |
| Uterus                     | 120         | 89          | 107         | 115         | 98          | 144         | 126         | 118         | 139         | 149         | 165         | 191         | 203         | 239         | 259         | 343         | 4820          |
| Ovary                      | 64          | 79          | 61          | 65          | 66          | 71          | 55          | 57          | 47          | 64          | 73          | 55          | 91          | 90          | 79          | 93          | 2623          |
| Vagina                     | 2           | 0           | 2           | 1           | 0           | 1           | 4           | 2           | 1           | 2           | 1           | 0           | 0           | 1           | 2           | 4           | 77            |
| Vulva                      | 4           | 2           | 5           | 4           | 2           | 2           | 1           | 2           | 7           | 1           | 1           | 1           | 7           | 2           | 5           | 7           | 125           |
| Other female genital       | 10          | 4           | 4           | 2           | 6           | 4           | 5           | 2           | 0           | 3           | 1           | 4           | 3           | 12          | 7           | 5           | 429           |
| Prostate                   | 45          | 48          | 37          | 38          | 49          | 70          | 68          | 62          | 69          | 89          | 90          | 72          | 129         | 157         | 124         | 151         | 2390          |
| Testis                     | 28          | 30          | 23          | 14          | 28          | 33          | 39          | 25          | 25          | 28          | 43          | 41          | 47          | 51          | 53          | 66          | 1087          |
| Penis                      | 1           | 0           | 0           | 2           | 0           | 0           | 0           | 1           | 0           | 3           | 1           | 1           | 1           | 1           | 1           | 2           | 53            |
| Other male genital         | 0           | 0           | 1           | 1           | 0           | 0           | 2           | 3           | 0           | 1           | 0           | 1           | 0           | 1           | 1           | 0           | 35            |
| Bladder                    | 70          | 87          | 67          | 63          | 80          | 75          | 75          | 92          | 81          | 85          | 103         | 65          | 104         | 107         | 106         | 116         | 3364          |
| Kidney and renal pelvis    | 86          | 85          | 87          | 84          | 78          | 97          | 93          | 102         | 102         | 89          | 133         | 74          | 125         | 127         | 141         | 173         | 3150          |
| Ureter                     | 2           | 2           | 2           | 0           | 0           | 0           | 1           | 1           | 0           | 0           | 3           | 0           | 0           | 6           | 1           | 2           | 50            |
| Other urinary              | 0           | 0           | 0           | 3           | 1           | 1           | 2           | 1           | 1           | 1           | 1           | 3           | 2           | 3           | 3           | 3           | 36            |
| Eye                        | 17          | 24          | 32          | 27          | 22          | 23          | 21          | 21          | 27          | 21          | 17          | 24          | 25          | 17          | 21          | 20          | 1089          |
| Brain,CNS                  | 134         | 181         | 177         | 192         | 172         | 175         | 205         | 203         | 207         | 218         | 344         | 303         | 359         | 418         | 393         | 500         | 8599          |
| Thyroid                    | 226         | 214         | 245         | 248         | 247         | 287         | 293         | 300         | 315         | 300         | 307         | 220         | 329         | 362         | 375         | 312         | 8860          |
| Other endocrine            | 41          | 42          | 35          | 47          | 41          | 49          | 51          | 31          | 57          | 85          | 88          | 54          | 74          | 100         | 92          | 95          | 2099          |
| Hodgkin's disease          | 122         | 104         | 96          | 117         | 108         | 146         | 114         | 121         | 141         | 129         | 146         | 111         | 133         | 151         | 136         | 136         | 4596          |
| Non-hodgkin's lymphoma     | 149         | 163         | 141         | 155         | 163         | 157         | 190         | 172         | 206         | 200         | 259         | 195         | 332         | 270         | 257         | 267         | 8314          |
| Unknown or ill-defined     | 31          | 33          | 25          | 25          | 41          | 30          | 27          | 47          | 44          | 15          | 11          | 29          | 32          | 44          | 33          | 24          | 1685          |
| <b>TOTAL</b>               | <b>2660</b> | <b>2738</b> | <b>2747</b> | <b>2799</b> | <b>2910</b> | <b>3183</b> | <b>3046</b> | <b>3115</b> | <b>3364</b> | <b>3292</b> | <b>3843</b> | <b>3245</b> | <b>4505</b> | <b>4881</b> | <b>4789</b> | <b>5129</b> | <b>125003</b> |

The largest number of cases in 2024 was noted in the 6th and 7th decades of life in males and in the 7th in females. The mean age was 46, the median was 55, and the mode was 58. Pediatric malignancies were most common among children at one year of age and at two years of age.

**FIGURE 10**  
**DISTRIBUTION OF ALL CASES BY AGE AT DIAGNOSIS**  
2024 (TOTAL CASES = 5,129)



**FIGURE 11**  
**DISTRIBUTION OF PEDIATRIC CASES BY AGE AT DIAGNOSIS**  
2024 (TOTAL CASES = 313)



Of the 5,129 cases in 2024, 4,737 (92.3%) were analytic (defined as cases that were first diagnosed and/or received all or part of their first course of treatment at KFSH&RC). The remaining 392 cases (7.6%) were non-analytic (defined as cases diagnosed elsewhere and received their entire first course of treatment elsewhere). Pediatric cases totaled 313, with 179 males and 134 females.

See Table 3 for the distribution of cases by site, sex, class of case, and stage at diagnosis.

**TABLE 3**  
**CASES SEEN AT KFSH&RC**  
**BY SITE, SEX, CLASS OF CASE, AND SUMMARY STAGE**  
**(2024)**

- \*Analytic case refers to a cancer case who was diagnosed and/or received all or part of their first course of treatment at the facility reporting the data.
- \*\*Non-analytic Case seen at our facility for subsequent treatment of a recurrence, second opinions, or follow-up after receiving initial care elsewhere.

| Site Group                  | Total Cases | Class       |            | Sex         |             | STAGE      |             |             |             |            |            |
|-----------------------------|-------------|-------------|------------|-------------|-------------|------------|-------------|-------------|-------------|------------|------------|
|                             |             | Analytic*   | NonAn**    | M           | F           | In situ    | Localized   | Regional    | Distant     | Benign     | Brain, CNS |
| ORAL CAVITY                 | 83          | 83          | 0          | 50          | 33          | 0          | 41          | 38          | 3           | 0          | 1          |
| TONSIL                      | 2           | 2           | 0          | 2           | 0           | 0          | 0           | 2           | 0           | 0          | 0          |
| NASOPHARYNX                 | 104         | 100         | 4          | 74          | 30          | 0          | 9           | 78          | 16          | 0          | 1          |
| ESOPHAGUS                   | 46          | 45          | 1          | 24          | 22          | 1          | 12          | 21          | 10          | 0          | 2          |
| STOMACH                     | 90          | 85          | 5          | 46          | 44          | 0          | 25          | 21          | 42          | 0          | 2          |
| SMALL INTESTINE             | 21          | 18          | 3          | 10          | 11          | 0          | 6           | 5           | 9           | 0          | 1          |
| COLON & RECTUM              | 435         | 382         | 53         | 223         | 212         | 3          | 95          | 202         | 131         | 0          | 4          |
| ANUS,ANAL CANAL,ANORECTUM   | 7           | 6           | 1          | 5           | 2           | 0          | 1           | 4           | 2           | 0          | 0          |
| LIVER                       | 154         | 146         | 8          | 102         | 52          | 0          | 101         | 15          | 38          | 0          | 0          |
| GALLBLADDER                 | 26          | 25          | 1          | 6           | 20          | 0          | 7           | 7           | 12          | 0          | 0          |
| BILE DUCTS                  | 27          | 25          | 2          | 21          | 6           | 0          | 4           | 10          | 13          | 0          | 0          |
| PANCREAS                    | 125         | 109         | 16         | 84          | 41          | 0          | 21          | 36          | 67          | 0          | 1          |
| PERITONEUM, RETROPERITONEUM | 8           | 8           | 0          | 5           | 3           | 0          | 1           | 2           | 5           | 0          | 0          |
| OTHER DIGESTIVE             | 17          | 16          | 1          | 5           | 12          | 0          | 0           | 0           | 14          | 0          | 3          |
| NASAL CAVITY,SINUS,EAR      | 12          | 12          | 0          | 8           | 4           | 0          | 8           | 4           | 0           | 0          | 0          |
| LARYNX                      | 11          | 10          | 1          | 11          | 0           | 0          | 8           | 2           | 1           | 0          | 0          |
| LUNG & BRONCHUS             | 157         | 149         | 8          | 111         | 46          | 0          | 31          | 29          | 97          | 0          | 0          |
| PLEURA                      | 2           | 2           | 0          | 2           | 0           | 0          | 0           | 2           | 0           | 0          | 0          |
| OTHER RESPIR & THORACIC     | 3           | 3           | 0          | 2           | 1           | 0          | 1           | 1           | 1           | 0          | 0          |
| LEUKEMIA                    | 298         | 277         | 21         | 167         | 131         | 0          | 8           | 0           | 286         | 0          | 4          |
| MYELOMA                     | 47          | 43          | 4          | 26          | 21          | 0          | 1           | 0           | 45          | 0          | 1          |
| BONE                        | 78          | 70          | 8          | 47          | 31          | 0          | 48          | 6           | 24          | 0          | 0          |
| SOFT TISSUE                 | 163         | 150         | 13         | 81          | 82          | 0          | 91          | 18          | 54          | 0          | 0          |
| SKIN                        | 44          | 42          | 2          | 30          | 14          | 4          | 27          | 4           | 8           | 0          | 1          |
| KAPOSIS SARCOMA             | 6           | 6           | 0          | 4           | 2           | 0          | 3           | 1           | 0           | 0          | 2          |
| BREAST                      | 844         | 767         | 77         | 12          | 832         | 76         | 246         | 356         | 161         | 0          | 5          |
| UTERUS                      | 343         | 316         | 27         | 0           | 343         | 15         | 194         | 59          | 74          | 0          | 1          |
| OVARY                       | 93          | 80          | 13         | 0           | 93          | 1          | 34          | 22          | 35          | 0          | 1          |
| VAGINA                      | 4           | 4           | 0          | 0           | 4           | 0          | 1           | 1           | 2           | 0          | 0          |
| VULVA                       | 7           | 7           | 0          | 0           | 7           | 0          | 5           | 2           | 0           | 0          | 0          |
| OTHER FEMALE GENITAL        | 5           | 5           | 0          | 0           | 5           | 0          | 0           | 0           | 5           | 0          | 0          |
| PROSTATE                    | 151         | 127         | 24         | 151         | 0           | 0          | 67          | 25          | 53          | 0          | 6          |
| TESTIS                      | 66          | 58          | 8          | 66          | 0           | 0          | 51          | 9           | 6           | 0          | 0          |
| PENIS                       | 2           | 2           | 0          | 2           | 0           | 0          | 1           | 1           | 0           | 0          | 0          |
| BLADDER                     | 116         | 105         | 11         | 101         | 15          | 37         | 51          | 13          | 15          | 0          | 0          |
| KIDNEY AND RENAL PELVIS     | 173         | 167         | 6          | 115         | 58          | 1          | 113         | 25          | 32          | 0          | 2          |
| URETER                      | 2           | 2           | 0          | 1           | 1           | 1          | 1           | 0           | 0           | 0          | 0          |
| OTHER URINARY               | 3           | 3           | 0          | 3           | 0           | 0          | 0           | 1           | 2           | 0          | 0          |
| EYE                         | 20          | 19          | 1          | 11          | 9           | 0          | 14          | 4           | 2           | 0          | 0          |
| BRAIN, CNS                  | 500         | 475         | 25         | 209         | 291         | 0          | 172         | 50          | 7           | 271        | 0          |
| THYROID                     | 312         | 298         | 14         | 77          | 235         | 2          | 178         | 115         | 16          | 0          | 1          |
| OTHER ENDOCRINE             | 95          | 89          | 6          | 53          | 42          | 0          | 18          | 6           | 15          | 55         | 1          |
| HODGKIN'S DISEASE           | 136         | 129         | 7          | 89          | 47          | 0          | 32          | 35          | 69          | 0          | 0          |
| NON-HODGKIN'S LYMPHOMA      | 267         | 246         | 21         | 151         | 116         | 0          | 65          | 29          | 171         | 0          | 2          |
| UNKNOWN OR ILL-DEFINED      | 24          | 24          | 0          | 10          | 14          | 0          | 1           | 3           | 9           | 0          | 11         |
| <b>TOTAL</b>                | <b>5129</b> | <b>4737</b> | <b>392</b> | <b>2197</b> | <b>2932</b> | <b>141</b> | <b>1793</b> | <b>1264</b> | <b>1552</b> | <b>326</b> | <b>53</b>  |

**TABLE 4**  
**ANALYTIC CASES SEEN AT KFSH&RC BY SITE AND AGE GROUP**  
(2024)

| Site Group                  | 0-4        | 5-9       | 10-14     | 15-19      | 20-24      | 25-29      | 30-34      | 35-39      | 40-44      | 45-49      | 50-54      | 55-59      | 60-64      | 65-69      | 70-74      | 75-79      | 80-84     | 85+       | TOTAL       |
|-----------------------------|------------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|-------------|
| Oral cavity                 | 0          | 0         | 1         | 1          | 1          | 2          | 6          | 2          | 7          | 5          | 10         | 8          | 12         | 9          | 8          | 5          | 5         | 1         | 83          |
| Tonsil                      | 0          | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 1          | 1          | 0          | 0          | 0          | 0         | 0         | 2           |
| Nasopharynx                 | 0          | 0         | 1         | 1          | 4          | 0          | 5          | 11         | 10         | 11         | 14         | 17         | 10         | 8          | 6          | 2          | 0         | 0         | 100         |
| Esophagus                   | 0          | 0         | 0         | 0          | 0          | 0          | 2          | 3          | 3          | 4          | 7          | 3          | 6          | 6          | 3          | 2          | 4         | 2         | 45          |
| Stomach                     | 0          | 0         | 0         | 0          | 3          | 2          | 7          | 6          | 14         | 5          | 7          | 8          | 16         | 7          | 5          | 4          | 1         | 0         | 85          |
| Small intestine             | 0          | 0         | 0         | 0          | 0          | 1          | 2          | 2          | 0          | 3          | 0          | 2          | 3          | 1          | 2          | 0          | 0         | 2         | 18          |
| Colon & Rectum              | 0          | 0         | 0         | 1          | 3          | 7          | 13         | 15         | 35         | 51         | 44         | 65         | 52         | 34         | 27         | 19         | 11        | 5         | 382         |
| Anus,anal canal,anorectum   | 0          | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 0          | 2          | 1          | 1          | 2          | 0          | 0          | 0          | 0         | 0         | 6           |
| Liver                       | 0          | 0         | 0         | 2          | 2          | 2          | 1          | 0          | 2          | 6          | 10         | 21         | 33         | 31         | 11         | 13         | 4         | 8         | 146         |
| Gallbladder                 | 0          | 0         | 0         | 0          | 0          | 0          | 0          | 1          | 1          | 2          | 0          | 3          | 3          | 3          | 7          | 1          | 3         | 0         | 25          |
| Bile ducts                  | 0          | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 0          | 4          | 3          | 7          | 2          | 4          | 2          | 2          | 1         | 0         | 25          |
| Pancreas                    | 0          | 0         | 0         | 0          | 1          | 1          | 2          | 3          | 9          | 11         | 7          | 19         | 15         | 13         | 17         | 3          | 5         | 3         | 109         |
| Retroperitoneum, Peritoneum | 2          | 0         | 0         | 0          | 0          | 0          | 1          | 0          | 0          | 0          | 0          | 0          | 2          | 1          | 1          | 1          | 0         | 0         | 8           |
| Other digestive             | 0          | 0         | 0         | 1          | 0          | 1          | 0          | 0          | 2          | 0          | 2          | 0          | 5          | 1          | 0          | 2          | 1         | 1         | 16          |
| Nasal cavity,sinus,ear      | 0          | 0         | 0         | 1          | 1          | 0          | 1          | 1          | 1          | 0          | 1          | 0          | 2          | 1          | 2          | 0          | 0         | 1         | 12          |
| Larynx                      | 0          | 0         | 0         | 0          | 0          | 0          | 1          | 0          | 1          | 0          | 0          | 0          | 2          | 3          | 1          | 1          | 1         | 0         | 10          |
| Lung & Bronchus             | 2          | 0         | 0         | 0          | 0          | 0          | 2          | 1          | 7          | 9          | 14         | 15         | 17         | 17         | 25         | 11         | 16        | 9         | 149         |
| Pleura                      | 0          | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 1          | 0          | 0         | 1         | 2           |
| Other respir & thoracic     | 2          | 0         | 0         | 0          | 0          | 0          | 1          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0         | 3           |
| Leukemia                    | 43         | 24        | 19        | 27         | 20         | 13         | 16         | 18         | 19         | 11         | 11         | 15         | 19         | 12         | 6          | 2          | 2         | 0         | 277         |
| Myeloma                     | 0          | 0         | 0         | 0          | 0          | 0          | 0          | 2          | 6          | 5          | 4          | 10         | 4          | 4          | 5          | 2          | 1         | 0         | 43          |
| Bone                        | 2          | 7         | 17        | 10         | 4          | 10         | 3          | 4          | 1          | 4          | 1          | 3          | 1          | 1          | 0          | 2          | 0         | 0         | 70          |
| Soft tissue                 | 14         | 7         | 4         | 7          | 10         | 8          | 3          | 14         | 10         | 17         | 7          | 13         | 13         | 10         | 7          | 4          | 2         | 0         | 150         |
| Skin                        | 0          | 0         | 0         | 2          | 1          | 3          | 1          | 1          | 3          | 4          | 4          | 2          | 3          | 2          | 6          | 2          | 4         | 4         | 42          |
| Kaposi sarcoma              | 1          | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 3          | 0          | 0          | 2          | 0         | 0         | 6           |
| Breast                      | 0          | 0         | 0         | 1          | 3          | 15         | 33         | 76         | 108        | 131        | 91         | 107        | 100        | 52         | 28         | 12         | 6         | 4         | 767         |
| Uterus                      | 0          | 0         | 0         | 0          | 0          | 3          | 7          | 23         | 27         | 18         | 24         | 38         | 64         | 57         | 29         | 8          | 8         | 10        | 316         |
| Ovary                       | 1          | 0         | 0         | 2          | 1          | 4          | 5          | 7          | 4          | 11         | 7          | 10         | 5          | 12         | 6          | 3          | 0         | 2         | 80          |
| Vagina                      | 0          | 0         | 0         | 0          | 0          | 0          | 0          | 1          | 0          | 0          | 0          | 1          | 0          | 1          | 0          | 0          | 0         | 1         | 4           |
| Vulva                       | 0          | 0         | 0         | 0          | 1          | 1          | 0          | 0          | 1          | 0          | 0          | 1          | 1          | 0          | 1          | 1          | 0         | 0         | 7           |
| Other female genital        | 0          | 0         | 0         | 0          | 0          | 0          | 1          | 0          | 0          | 0          | 0          | 0          | 1          | 1          | 1          | 0          | 0         | 1         | 5           |
| Prostate                    | 0          | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 2          | 1          | 4          | 19         | 24         | 30         | 22         | 10         | 8         | 7         | 127         |
| Testis                      | 1          | 0         | 0         | 0          | 0          | 8          | 10         | 16         | 13         | 5          | 1          | 3          | 0          | 1          | 0          | 0          | 0         | 0         | 58          |
| Penis                       | 0          | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 1          | 0          | 0          | 0          | 1          | 0          | 0          | 0          | 0         | 0         | 2           |
| Bladder                     | 0          | 0         | 2         | 0          | 0          | 0          | 2          | 2          | 4          | 5          | 7          | 5          | 18         | 7          | 18         | 9          | 14        | 7         | 105         |
| Kidney and renal pelvis     | 11         | 4         | 2         | 0          | 1          | 6          | 8          | 11         | 15         | 16         | 13         | 20         | 29         | 12         | 11         | 6          | 2         | 0         | 167         |
| Ureter                      | 0          | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 1          | 0          | 1          | 0         | 0         | 2           |
| Other urinary               | 0          | 0         | 0         | 0          | 1          | 0          | 0          | 0          | 0          | 0          | 0          | 1          | 0          | 0          | 0          | 0          | 1         | 0         | 3           |
| Eye                         | 18         | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 1          | 0          | 0          | 0          | 0         | 0         | 19          |
| Brain, CNS                  | 26         | 19        | 17        | 26         | 19         | 27         | 38         | 38         | 45         | 47         | 52         | 38         | 28         | 29         | 14         | 8          | 4         | 0         | 475         |
| Thyroid                     | 0          | 0         | 3         | 12         | 12         | 33         | 45         | 42         | 35         | 29         | 28         | 23         | 17         | 12         | 2          | 3          | 1         | 1         | 298         |
| Other endocrine             | 9          | 1         | 2         | 1          | 3          | 3          | 11         | 12         | 9          | 5          | 10         | 6          | 9          | 4          | 4          | 0          | 0         | 0         | 89          |
| Hodgkin's disease           | 0          | 5         | 13        | 22         | 16         | 9          | 12         | 22         | 10         | 3          | 2          | 4          | 7          | 3          | 1          | 0          | 0         | 0         | 129         |
| Non-hodgkin's lymphoma      | 3          | 6         | 3         | 8          | 9          | 13         | 10         | 26         | 27         | 10         | 24         | 30         | 29         | 19         | 12         | 8          | 5         | 4         | 246         |
| Unknown or ill-defined      | 7          | 2         | 0         | 0          | 0          | 2          | 1          | 1          | 1          | 0          | 1          | 4          | 2          | 0          | 0          | 1          | 2         | 0         | 24          |
| <b>TOTAL</b>                | <b>142</b> | <b>75</b> | <b>84</b> | <b>125</b> | <b>124</b> | <b>182</b> | <b>254</b> | <b>366</b> | <b>429</b> | <b>436</b> | <b>416</b> | <b>536</b> | <b>552</b> | <b>431</b> | <b>261</b> | <b>161</b> | <b>98</b> | <b>65</b> | <b>4737</b> |

**TABLE 5**  
**ANALYTIC MALE CASES SEEN AT KFSH&RC BY SITE AND AGE**  
(2024)

| Site Group                  | 0-4       | 5-9       | 10-14     | 15-19     | 20-24     | 25-29     | 30-34     | 35-39      | 40-44      | 45-49      | 50-54      | 55-59      | 60-64      | 65-69      | 70-74      | 75-79     | 80-84     | 85+       | TOTAL       |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|-----------|-------------|
| Oral cavity                 | 0         | 0         | 1         | 1         | 1         | 1         | 4         | 1          | 4          | 3          | 4          | 5          | 8          | 5          | 4          | 3         | 4         | 1         | 50          |
| Tonsil                      | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0          | 0          | 0          | 0          | 1          | 1          | 0          | 0          | 0         | 0         | 0         | 2           |
| Nasopharynx                 | 0         | 0         | 1         | 1         | 2         | 0         | 2         | 9          | 9          | 7          | 11         | 8          | 7          | 8          | 5          | 1         | 0         | 0         | 71          |
| Esophagus                   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 1          | 1          | 2          | 3          | 1          | 4          | 5          | 2          | 1         | 3         | 0         | 23          |
| Stomach                     | 0         | 0         | 0         | 0         | 1         | 0         | 3         | 3          | 10         | 2          | 2          | 5          | 7          | 5          | 4          | 1         | 0         | 0         | 43          |
| Small intestine             | 0         | 0         | 0         | 0         | 0         | 1         | 2         | 1          | 0          | 1          | 0          | 2          | 1          | 0          | 1          | 0         | 0         | 1         | 10          |
| Colon & Rectum              | 0         | 0         | 0         | 0         | 0         | 1         | 3         | 7          | 18         | 30         | 20         | 30         | 31         | 23         | 14         | 10        | 5         | 1         | 193         |
| Anus,anal canal,anorectum   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0          | 0          | 2          | 1          | 0          | 1          | 0          | 0          | 0         | 0         | 0         | 4           |
| Liver                       | 0         | 0         | 0         | 1         | 1         | 1         | 0         | 0          | 2          | 5          | 7          | 11         | 25         | 22         | 8          | 5         | 4         | 2         | 95          |
| Gallbladder                 | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0          | 1          | 0          | 0          | 1          | 1          | 1          | 0          | 1         | 1         | 0         | 6           |
| Bile ducts                  | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0          | 0          | 4          | 2          | 5          | 1          | 4          | 1          | 2         | 1         | 0         | 20          |
| Pancreas                    | 0         | 0         | 0         | 0         | 1         | 1         | 0         | 1          | 8          | 9          | 4          | 10         | 11         | 11         | 10         | 1         | 4         | 2         | 73          |
| Peritoneum, Retroperitoneum | 2         | 0         | 0         | 0         | 0         | 0         | 1         | 0          | 0          | 0          | 0          | 0          | 2          | 0          | 0          | 0         | 0         | 0         | 5           |
| Other digestive             | 0         | 0         | 0         | 0         | 0         | 1         | 0         | 0          | 1          | 0          | 0          | 0          | 2          | 0          | 0          | 0         | 0         | 1         | 5           |
| Nasal cavity,sinus,ear      | 0         | 0         | 0         | 0         | 0         | 0         | 1         | 1          | 0          | 0          | 0          | 1          | 0          | 2          | 0          | 2         | 0         | 1         | 8           |
| Larynx                      | 0         | 0         | 0         | 0         | 0         | 0         | 1         | 0          | 1          | 0          | 0          | 0          | 2          | 3          | 1          | 1         | 1         | 0         | 10          |
| Lung                        | 1         | 0         | 0         | 0         | 0         | 2         | 1         | 2          | 3          | 9          | 12         | 13         | 10         | 19         | 10         | 12        | 9         | 3         | 106         |
| Pleura                      | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 1          | 0         | 0         | 1         | 2           |
| Other respir & thoracic     | 1         | 0         | 0         | 0         | 0         | 1         | 0         | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0         | 0         | 2           |
| Myeloma                     | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 1          | 4          | 3          | 1          | 3          | 3          | 2          | 4          | 2         | 1         | 0         | 24          |
| Leukemia                    | 22        | 16        | 12        | 18        | 13        | 6         | 10        | 7          | 8          | 6          | 6          | 8          | 10         | 4          | 2          | 1         | 2         | 0         | 151         |
| Bone                        | 1         | 3         | 9         | 6         | 4         | 9         | 1         | 2          | 0          | 3          | 0          | 2          | 0          | 0          | 0          | 1         | 0         | 0         | 41          |
| Soft tissue                 | 10        | 4         | 2         | 5         | 4         | 2         | 0         | 7          | 5          | 9          | 3          | 3          | 6          | 8          | 3          | 2         | 1         | 0         | 74          |
| Kaposi's sarcoma            | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 2          | 0          | 0          | 2         | 0         | 0         | 4           |
| Skin                        | 0         | 0         | 0         | 2         | 1         | 2         | 1         | 0          | 2          | 4          | 3          | 1          | 1          | 2          | 5          | 2         | 1         | 2         | 29          |
| Breast                      | 0         | 0         | 0         | 0         | 0         | 0         | 1         | 0          | 2          | 2          | 1          | 1          | 1          | 2          | 0          | 1         | 0         | 0         | 11          |
| Prostate                    | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0          | 2          | 1          | 4          | 19         | 24         | 30         | 22         | 10        | 8         | 7         | 127         |
| Testis                      | 1         | 0         | 0         | 0         | 8         | 10        | 16        | 13         | 5          | 1          | 3          | 0          | 1          | 0          | 0          | 0         | 0         | 0         | 58          |
| Penis                       | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0          | 1          | 0          | 0          | 0          | 1          | 0          | 0          | 0         | 0         | 0         | 2           |
| Bladder                     | 0         | 0         | 2         | 0         | 0         | 2         | 1         | 3          | 4          | 7          | 5          | 16         | 7          | 17         | 8          | 12        | 4         | 3         | 91          |
| Kidney and renal pelvis     | 5         | 0         | 1         | 0         | 0         | 4         | 4         | 5          | 12         | 13         | 10         | 14         | 21         | 10         | 9          | 3         | 1         | 0         | 112         |
| Ureter                      | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 1          | 0         | 0         | 0         | 1           |
| Other urinary               | 0         | 0         | 0         | 0         | 1         | 0         | 0         | 0          | 0          | 0          | 1          | 0          | 0          | 0          | 0          | 0         | 1         | 0         | 3           |
| Eye                         | 10        | 0         | 0         | 0         | 0         | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 1          | 0          | 0          | 0         | 0         | 0         | 11          |
| Brain, CNS                  | 16        | 10        | 9         | 15        | 9         | 13        | 17        | 15         | 21         | 10         | 16         | 15         | 16         | 10         | 7          | 2         | 0         | 0         | 201         |
| Thyroid                     | 0         | 0         | 1         | 2         | 1         | 5         | 10        | 14         | 9          | 9          | 7          | 6          | 3          | 4          | 0          | 2         | 0         | 0         | 73          |
| Other endocrine             | 5         | 0         | 2         | 0         | 2         | 1         | 7         | 7          | 3          | 1          | 6          | 4          | 6          | 2          | 3          | 0         | 0         | 0         | 49          |
| Hodgkin's disease           | 0         | 4         | 8         | 16        | 11        | 4         | 3         | 15         | 8          | 3          | 1          | 4          | 6          | 2          | 1          | 0         | 0         | 0         | 86          |
| Non-hodgkin's lymphoma      | 1         | 4         | 2         | 3         | 7         | 7         | 8         | 15         | 17         | 7          | 14         | 15         | 14         | 10         | 6          | 6         | 4         | 2         | 142         |
| Unknown or ill-defined      | 4         | 2         | 0         | 0         | 0         | 2         | 0         | 0          | 0          | 0          | 1          | 0          | 1          | 0          | 0          | 0         | 0         | 0         | 10          |
| <b>TOTAL</b>                | <b>79</b> | <b>43</b> | <b>50</b> | <b>70</b> | <b>67</b> | <b>77</b> | <b>97</b> | <b>130</b> | <b>161</b> | <b>153</b> | <b>149</b> | <b>204</b> | <b>239</b> | <b>210</b> | <b>133</b> | <b>84</b> | <b>56</b> | <b>26</b> | <b>2028</b> |

**TABLE 6**  
**ANALYTIC FEMALE CASES SEEN AT KFSH&RC BY SITE AND AGE**  
(2024)

| Site Group                  | 0-4       | 5-9       | 10-14     | 15-19     | 20-24     | 25-29      | 30-34      | 35-39      | 40-44      | 45-49      | 50-54      | 55-59      | 60-64      | 65-69      | 70-74      | 75-79     | 80-84     | 85+       | TOTAL       |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|-----------|-------------|
| Oral cavity                 | 0         | 0         | 0         | 0         | 0         | 1          | 2          | 1          | 3          | 2          | 6          | 3          | 4          | 4          | 4          | 2         | 1         | 0         | 33          |
| Nasopharynx                 | 0         | 0         | 0         | 0         | 2         | 0          | 3          | 2          | 1          | 4          | 3          | 9          | 3          | 0          | 1          | 1         | 0         | 0         | 29          |
| Esophagus                   | 0         | 0         | 0         | 0         | 0         | 0          | 2          | 2          | 2          | 2          | 4          | 2          | 2          | 1          | 1          | 1         | 1         | 2         | 22          |
| Stomach                     | 0         | 0         | 0         | 0         | 2         | 2          | 4          | 3          | 4          | 3          | 5          | 3          | 9          | 2          | 1          | 3         | 1         | 0         | 42          |
| Small intestine             | 0         | 0         | 0         | 0         | 0         | 0          | 0          | 1          | 0          | 2          | 0          | 0          | 2          | 1          | 1          | 0         | 0         | 1         | 8           |
| Colon & Rectum              | 0         | 0         | 0         | 1         | 3         | 6          | 10         | 8          | 17         | 21         | 24         | 35         | 21         | 11         | 13         | 9         | 6         | 4         | 189         |
| Anus,anal canal,anorectum   | 0         | 0         | 0         | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 0          | 1          | 1          | 0          | 0          | 0         | 0         | 0         | 2           |
| Liver                       | 0         | 0         | 0         | 1         | 1         | 1          | 0          | 0          | 0          | 1          | 3          | 10         | 8          | 9          | 3          | 8         | 0         | 6         | 51          |
| Gallbladder                 | 0         | 0         | 0         | 0         | 0         | 0          | 1          | 1          | 1          | 0          | 3          | 2          | 2          | 6          | 1          | 2         | 0         | 0         | 19          |
| Bile ducts                  | 0         | 0         | 0         | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 1          | 2          | 1          | 0          | 1          | 0         | 0         | 0         | 5           |
| Pancreas                    | 0         | 0         | 0         | 0         | 0         | 0          | 2          | 2          | 1          | 2          | 3          | 9          | 4          | 2          | 7          | 2         | 1         | 1         | 36          |
| Peritoneum, Retroperitoneum | 0         | 0         | 0         | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 1          | 1          | 1         | 0         | 0         | 3           |
| Other digestive             | 0         | 0         | 0         | 1         | 0         | 0          | 0          | 0          | 1          | 0          | 2          | 0          | 3          | 1          | 0          | 2         | 1         | 0         | 11          |
| Nasal cavity,sinus,ear      | 0         | 0         | 0         | 1         | 1         | 0          | 0          | 0          | 1          | 0          | 0          | 0          | 0          | 1          | 0          | 0         | 0         | 0         | 4           |
| Lung                        | 1         | 0         | 0         | 0         | 0         | 0          | 0          | 5          | 6          | 5          | 3          | 4          | 7          | 6          | 1          | 4         | 0         | 1         | 43          |
| Other respir & thoracic     | 1         | 0         | 0         | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0         | 0         | 1           |
| Leukemia                    | 21        | 8         | 7         | 9         | 7         | 7          | 6          | 11         | 11         | 5          | 5          | 7          | 9          | 8          | 4          | 1         | 0         | 0         | 126         |
| Myeloma                     | 0         | 0         | 0         | 0         | 0         | 0          | 0          | 1          | 2          | 2          | 3          | 7          | 1          | 2          | 1          | 0         | 0         | 0         | 19          |
| Bone                        | 1         | 4         | 8         | 4         | 0         | 1          | 2          | 2          | 1          | 1          | 1          | 1          | 1          | 1          | 0          | 1         | 0         | 0         | 29          |
| Soft tissue                 | 4         | 3         | 2         | 2         | 6         | 6          | 3          | 7          | 5          | 8          | 4          | 10         | 7          | 2          | 4          | 2         | 1         | 0         | 76          |
| Kaposi's sarcoma            | 1         | 0         | 0         | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 1          | 0          | 0          | 0         | 0         | 0         | 2           |
| Skin                        | 0         | 0         | 0         | 0         | 0         | 1          | 0          | 1          | 1          | 0          | 1          | 1          | 2          | 0          | 1          | 0         | 3         | 2         | 13          |
| Breast                      | 0         | 0         | 0         | 1         | 3         | 15         | 32         | 76         | 106        | 129        | 90         | 106        | 99         | 50         | 28         | 11        | 6         | 4         | 756         |
| Uterus                      | 0         | 0         | 0         | 0         | 0         | 3          | 7          | 23         | 27         | 18         | 24         | 38         | 64         | 57         | 29         | 8         | 8         | 10        | 316         |
| Ovary                       | 1         | 0         | 0         | 2         | 1         | 4          | 5          | 7          | 4          | 11         | 7          | 10         | 5          | 12         | 6          | 3         | 0         | 2         | 80          |
| Vagina                      | 0         | 0         | 0         | 0         | 0         | 0          | 0          | 1          | 0          | 0          | 0          | 1          | 0          | 1          | 0          | 0         | 0         | 1         | 4           |
| Vulva                       | 0         | 0         | 0         | 0         | 1         | 1          | 0          | 0          | 1          | 0          | 0          | 0          | 1          | 1          | 0          | 1         | 0         | 0         | 7           |
| Other female genital        | 0         | 0         | 0         | 0         | 0         | 0          | 1          | 0          | 0          | 0          | 0          | 1          | 1          | 1          | 0          | 0         | 1         | 0         | 5           |
| Bladder                     | 0         | 0         | 0         | 0         | 0         | 0          | 1          | 1          | 1          | 0          | 0          | 2          | 0          | 1          | 1          | 2         | 3         | 2         | 14          |
| Kidney and renal pelvis     | 6         | 4         | 1         | 0         | 1         | 2          | 4          | 6          | 3          | 3          | 3          | 6          | 8          | 2          | 2          | 3         | 1         | 0         | 55          |
| Ureter                      | 0         | 0         | 0         | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 1          | 0          | 0          | 0         | 0         | 0         | 1           |
| Eye                         | 8         | 0         | 0         | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0         | 0         | 8           |
| Brain, CNS                  | 10        | 9         | 8         | 11        | 10        | 14         | 21         | 23         | 24         | 37         | 36         | 23         | 12         | 19         | 7          | 6         | 4         | 0         | 274         |
| Thyroid                     | 0         | 0         | 2         | 10        | 11        | 28         | 35         | 28         | 26         | 20         | 21         | 17         | 14         | 8          | 2          | 1         | 1         | 1         | 225         |
| Other endocrine             | 4         | 1         | 0         | 1         | 1         | 2          | 4          | 5          | 6          | 4          | 4          | 2          | 3          | 2          | 1          | 0         | 0         | 0         | 40          |
| Hodgkin's disease           | 0         | 1         | 5         | 6         | 5         | 5          | 9          | 7          | 2          | 0          | 1          | 0          | 1          | 1          | 0          | 0         | 0         | 0         | 43          |
| Non-hodgkin's lymphoma      | 2         | 2         | 1         | 5         | 2         | 6          | 2          | 11         | 10         | 3          | 10         | 15         | 15         | 9          | 6          | 2         | 1         | 2         | 104         |
| Unknown or ill-defined      | 3         | 0         | 0         | 0         | 0         | 0          | 1          | 1          | 1          | 0          | 0          | 4          | 1          | 0          | 0          | 1         | 2         | 0         | 14          |
| <b>TOTAL</b>                | <b>63</b> | <b>32</b> | <b>34</b> | <b>55</b> | <b>57</b> | <b>105</b> | <b>157</b> | <b>236</b> | <b>268</b> | <b>283</b> | <b>267</b> | <b>332</b> | <b>313</b> | <b>221</b> | <b>128</b> | <b>77</b> | <b>42</b> | <b>39</b> | <b>2709</b> |

## TRENDS IN RELATIVE FREQUENCY OF CANCER AT KFSH&RC (CONT'D)

The crude relative frequencies of primary cancer cases seen at KFSH&RC are slightly different from those of the USA. The most common tumors of the USA are (Breast, Lung/Bronchus, and Colon), while Breast, Colon & Rectum, and Thyroid, CNS cancers are more common at KFSH&RC. The following 2024 cases exhibit significant differences:

**TABLE 7**

**COMPARATIVE DATA - KFSH&RC VS USA AND KSA**

(% to TOTAL CANCER CASES)

| SITE                 | KFSH&RC 2024<br>(Hospital Level) | KSA 2023<br>(National Level) | USA 2024<br>(National Level) |
|----------------------|----------------------------------|------------------------------|------------------------------|
| BREAST               | 16.5%                            | 20.3%                        | 15.7%                        |
| BRAIN, CNS           | 9.7%                             | 3.1%*                        | 1.3%                         |
| COLON, RECTUM        | 8.5%                             | 13.1%                        | 5.3%                         |
| THYROID              | 6.1%                             | 9.2%                         | 7.6%                         |
| LEUKEMIA             | 5.8%                             | 4.2%                         | 3.1%                         |
| NON-HODGKIN LYMPHOMA | 5.2%                             | 4.7%                         | 4.0%                         |
| UTERUS               | 6.7%                             | 3.4%                         | 3.4%                         |
| KIDNEY               | 3.4%                             | 2.8%                         | 4.1%                         |
| SOFT TISSUE          | 3.2%                             | 1.5%                         | 0.7%                         |
| LUNG/BRONCHUS        | 3.1%                             | 3.2%                         | 11.7%                        |

\* Saudi cancer registry only reports malignant Brain& CNS cases

**Breast** – In 2024, Breast cancer is the most frequently diagnosed malignancy at KFSH&RC, accounting for 16.5% of all cases, compared to 15.7% of all neoplasms reported in the U.S. The Kingdom of Saudi Arabia (KSA) reported that breast cancer accounted for 20.3% of cases in 2023. At KFSH&RC, the majority of cases occur in women under the age of 50, in contrast to the United States, where breast cancer predominantly affects women over the age of 50. Similar to Western countries, breast cancer ranks as the leading cancer among women at KFSH&RC.

**Colon & Rectum** - cancer accounts for 8.5% of all malignancies at KFSH&RC, compared to 5.3% in the U.S., reflecting a slightly lower frequency than KFSH&RC for the year 2024. In 2023, KSA reported a percentage of 13.1%, which is higher than both KFSH&RC and the U.S. rates.

**Thyroid** – Thyroid cancer for 2024 cases constitutes 6.1% of all malignancies at KFSH&RC, a markedly higher proportion compared to the U.S., where it accounts for only 7.6 % of all cancer cases. KSA had more than these numbers with a percentage of 9.2% in 2023. This notable difference highlights the higher prevalence of thyroid cancer within the KSA and KFSH&RC patient population relative to Western countries.

**Brain, CNS** – The incidence of brain and CNS cancers is significantly higher at KFSH&RC in 2024, representing 9.7% of all malignancies. In comparison, these cancers constitute only 1.3% of all cases in the U.S. In 2023, KSA reported a higher percentage than the U.S. but lower than KFSH&RC, with brain and CNS cancers accounting for 3.1% of all cases.

**Leukemia** - Leukemia represents 5.8% of all malignancies at KFSH&RC, compared to 3.1% in the U.S. for the year 2024. This high relative frequency is particularly notable, as leukemia is the most common cancer among pediatric patients at the facility. In the previous year, KSA reported a leukemia incidence rate of 4.2%.

**Uterus** - Primary malignant neoplasms of the uterus in 2024 represent 6.7% of all cancers at KFSH&RC, compared to 3.4% in the U.S., indicating a slightly higher prevalence at KFSH&RC. In 2023, KSA reported a percentage of 3.4%, which is lower than KFSH&RC's similar to the U.S. rate.

**Non-Hodgkin Lymphoma** - Non-Hodgkin Lymphoma (NHL) in 2024 constitutes 5.2% of all cancers at KFSH&RC, compared to 4.0% in the U.S., reflecting a higher relative frequency at KFSH&RC. In 2023, KSA reported an NHL percentage of 4.7%, slightly lower than KFSH&RC, but significantly higher than the U.S. rate.

**Kidney** – Kidney cancer constitutes 3.4% of all cases at KFSH&RC in 2024, compared to 4.1% in the U.S., indicating a slightly higher incidence rate at the U.S. In 2023, KSA reported a percentage of 2.8%, somewhat less than KFSH&RC and significantly less than the U.S. rate.

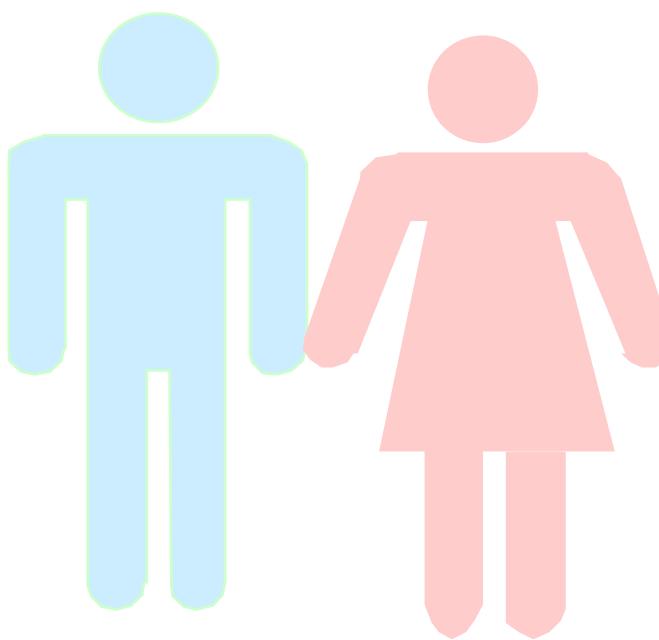
**Soft tissue** – Soft tissue cancers account for 3.2% of all malignancies at KFSH&RC in 2024, compared to 0.7% in the U.S., reflecting a higher relative frequency of these tumors at KFSH&RC. In 2023, KSA reported a percentage of 1.5%, which is lower than KFSH&RC but higher than the U.S. rate.

**Lung/Bronchus** – Lung/Bronchus cancers account for 3.1% of all malignancies at KFSH&RC in 2024, which is slightly lower than the 11.7% reported in the U.S. In 2023, KSA reported a percentage of 3.2%, which is lower than the U.S. and slightly higher than KFSH&RC.

**FIGURE 12**  
**DISTRIBUTION OF 20 MOST COMMON MALIGNANCIES**  
**2024 ANALYTIC CASES\* (TOTAL CASES = 4,737)**

**MALE**

|                         |             |
|-------------------------|-------------|
| BRAIN, CNS              | 201 (9.9%)  |
| COLON & RECTUM          | 193 (9.5%)  |
| LEUKEMIA                | 151 (7.4%)  |
| NON-HODGKIN LYMPHOMA    | 142 (7%)    |
| PROSTATE                | 127 (6.26%) |
| KIDNEY AND RENAL PELVIS | 112 (5.5%)  |
| LUNG & BRONCHUS         | 106 (5.2%)  |
| LIVER                   | 95 (4.7%)   |
| BLADDER                 | 91 (4.5%)   |
| HODGKIN DISEASE         | 86 (4.2%)   |
| SOFT TISSUE             | 74 (3.6%)   |
| THYROID                 | 73 (3.6%)   |
| PANCREAS                | 73 (3.6%)   |
| NASOPHARYNX             | 71 (3.5%)   |
| TESTIS                  | 58 (2.8%)   |
| ORAL CAVITY             | 50 (2.47%)  |
| OTHER ENDOCRINE         | 49 (2.42%)  |
| STOMACH                 | 43 (2.12%)  |
| BONE                    | 41 (2.02%)  |
| SKIN CANCER             | 29 (1.43%)  |

**FEMALE**

|                       |             |
|-----------------------|-------------|
| BREAST                | 756 (27.9%) |
| UTERUS                | 316 (11.6%) |
| BRAIN, CNS            | 274 (10.1%) |
| THYROID               | 225 (8.3%)  |
| COLON & RECTUM        | 189 (6.9%)  |
| LEUKEMIA              | 126 (4.6%)  |
| NON-HODGKIN LYMPHOMA  | 104 (3.8%)  |
| OVARY                 | 80 (2.9%)   |
| SOFT TISSUE           | 76 (2.8%)   |
| KIDNEY & RENAL PELVIS | 55 (2.03%)  |
| LIVER                 | 51 (1.8%)   |
| HODGKIN LYMPHOMA      | 43 (1.6%)   |
| LUNG/BRONCHUS         | 43 (1.6%)   |
| STOMACH               | 42 (1.5%)   |
| OTHER ENDOCRINE       | 40 (1.5%)   |
| PANCREAS              | 36 (1.3%)   |
| ORAL CAVITY           | 33 (1.2%)   |
| BONE                  | 29 (1.07%)  |
| NASOPHARYNX           | 29 (1.07%)  |
| ESOPHAGUS             | 22 (0.8%)   |

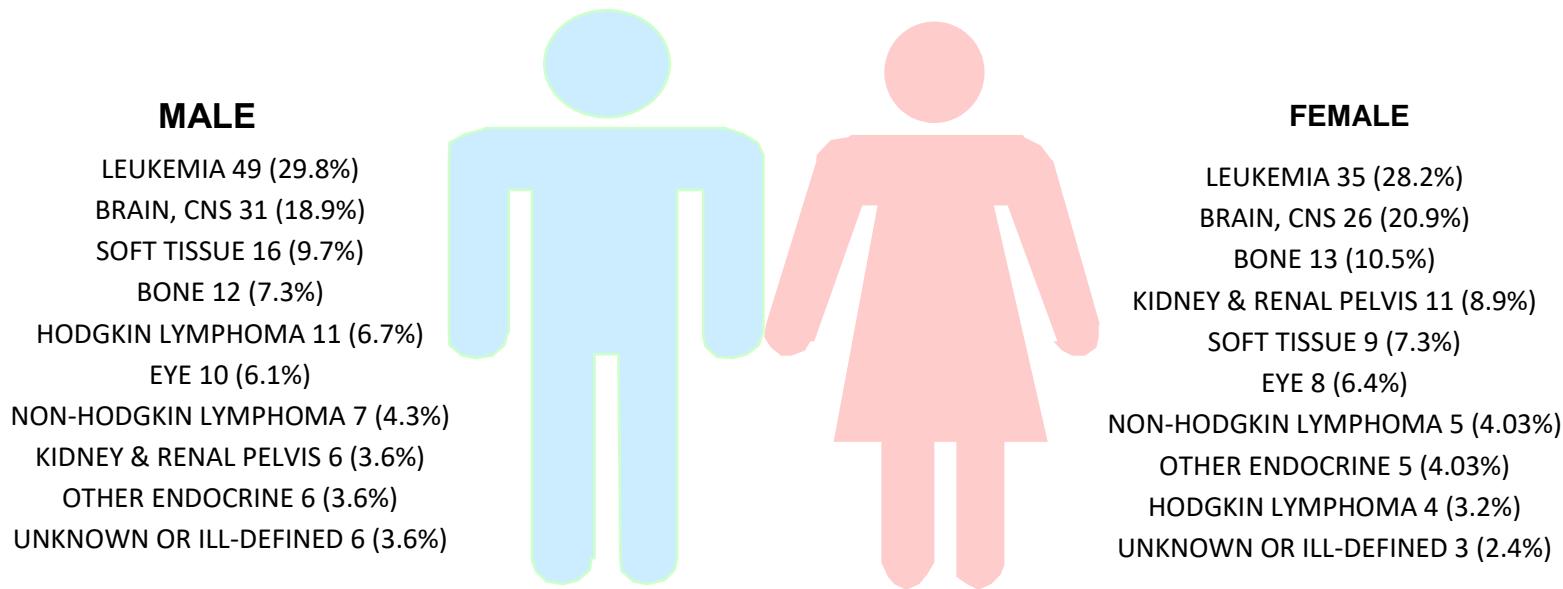
- This figure only categorizes analytic cases seen at KFSH&RC.
- Table 3 differentiates analytic and non-analytic cases.

**\*Analytic Cases definition:** An analytic case refers to a cancer patient who was diagnosed and/or received all or part of their first course of treatment at the facility reporting the data.

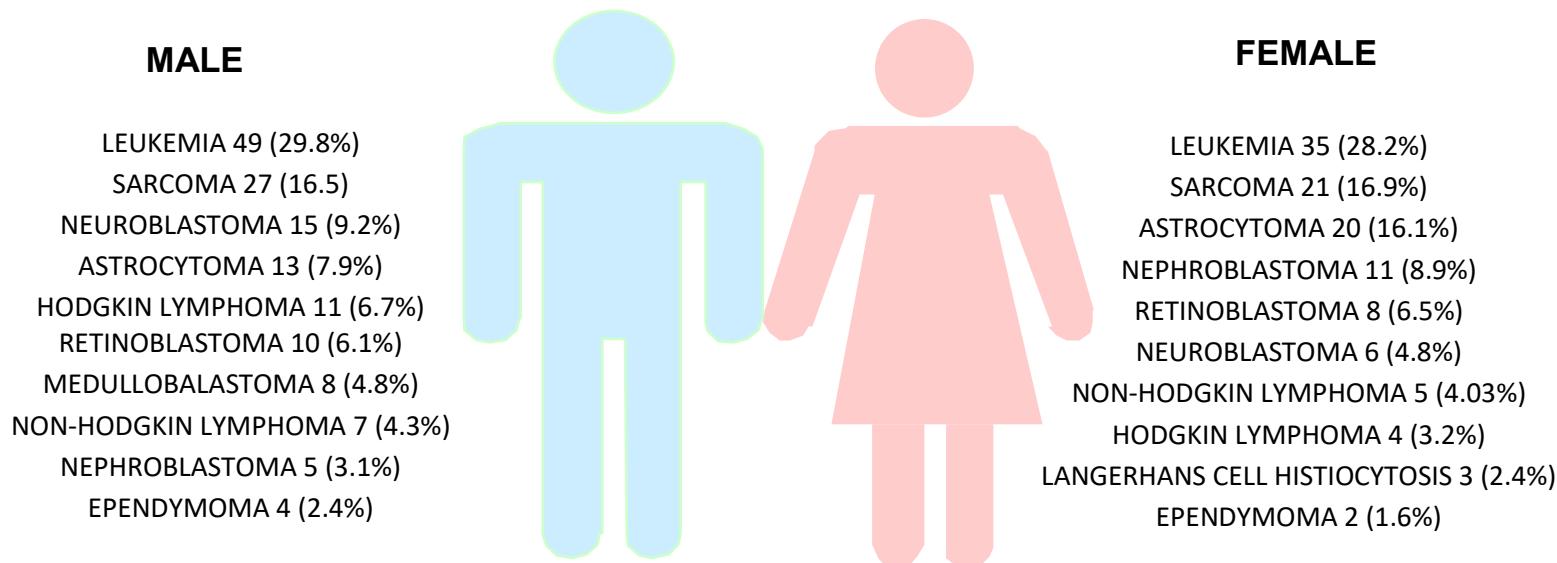
*As defined by the three main organizations, which maintain standard definitions in cancer registration:*

1. The Commission on Cancer (CoC): Part of the American College of Surgeons, published the STAndards for Oncology Registry Entry (STORE).
2. The Surveillance, Epidemiology, and End Results (SEER) Program: managed by the National Cancer Institute (NCI),
3. North American Association of Central Cancer Registries (NAACCR).

**FIGURE 13**  
**DISTRIBUTION OF 10 MOST COMMON PEDIATRIC MALIGNANCIES**  
**2024 ANALYTIC CASES\* (TOTAL CASES=288)**



**FIGURE 14**  
**DISTRIBUTION OF 10 MOST COMMON PEDIATRIC MALIGNANCIES BY HISTOLOGY**  
**2024 ANALYTIC CASES\* (TOTAL CASES=288)**



\*An analytic case refers to a cancer patient who was diagnosed and/or received all or part of their first course of treatment at the facility reporting the data.

**TABLE 8**  
**PRIMARY SITE (2024)**  
(INCLUDES MULTIPLE PRIMARIES)

| SITE  | HISTOLOGY<br>(NOS - Not Otherwise Specified) | ALL CASES | ADULTS    |           | PEADIATRICS |          |
|---|--|-----------|-----------|-----------|-------------|----------|
|   |  |           | MALE      | FEMALE    | MALE        | FEMALE   |
|   |  | 5129      | 2016      | 2798      | 179         | 134      |
| <b>MOUTH &amp; OTHER ORAL CAVITY</b>            |  | <b>33</b> | <b>16</b> | <b>17</b> | <b>0</b>    | <b>0</b> |
| BASAL CELL CARCINOMA NODULAR                    |  | 1         | 1         | 0         | 0           | 0        |
| BASAL CELL CARCINOMA NOS                        |  | 2         | 2         | 0         | 0           | 0        |
| CARCINOMA NOS                                   |  | 1         | 1         | 0         | 0           | 0        |
| CLEAR CELL ADENOCARCINOMA NOS                   |  | 1         | 0         | 1         | 0           | 0        |
| MUCOEPIDERMOID CARCINOMA                        |  | 1         | 1         | 0         | 0           | 0        |
| SQUAMOUS CELL CARCINOMA KERATINIZING NOS        |  | 14        | 4         | 10        | 0           | 0        |
| SQUAMOUS CELL CARCINOMA NOS                     |  | 12        | 6         | 6         | 0           | 0        |
| SQUAMOUS CELL CARCINOMA SPINDLE CELL            |  | 1         | 1         | 0         | 0           | 0        |
| <b>GUM</b>                                      |  | <b>2</b>  | <b>2</b>  | <b>0</b>  | <b>0</b>    | <b>0</b> |
| SQUAMOUS CELL CARCINOMA KERATINIZING NOS        |  | 2         | 2         | 0         | 0           | 0        |
| <b>FLOOR OF MOUTH</b>                           |  | <b>3</b>  | <b>3</b>  | <b>0</b>  | <b>0</b>    | <b>0</b> |
| CARCINOMA NOS                                   |  | 1         | 1         | 0         | 0           | 0        |
| SQUAMOUS CELL CARCINOMA KERATINIZING NOS        |  | 1         | 1         | 0         | 0           | 0        |
| SQUAMOUS CELL CARCINOMA NOS                     |  | 1         | 1         | 0         | 0           | 0        |
| <b>TONGUE</b>                                   |  | <b>33</b> | <b>20</b> | <b>13</b> | <b>0</b>    | <b>0</b> |
| ADENOCARCINOMA NOS                              |  | 1         | 1         | 0         | 0           | 0        |
| MUCOEPIDERMOID CARCINOMA                        |  | 2         | 2         | 0         | 0           | 0        |
| SQUAMOUS CELL CARCINOMA KERATINIZING NOS        |  | 13        | 10        | 3         | 0           | 0        |
| SQUAMOUS CELL CARCINOMA NOS                     |  | 17        | 7         | 10        | 0           | 0        |
| <b>SALIVARY GLANDS</b>                          |  | <b>12</b> | <b>8</b>  | <b>3</b>  | <b>1</b>    | <b>0</b> |
| ACINAR CELL CARCINOMA                           |  | 1         | 0         | 1         | 0           | 0        |
| ADENOCARCINOMA NOS                              |  | 1         | 0         | 1         | 0           | 0        |
| ADENOID CYSTIC CARCINOMA                        |  | 4         | 3         | 1         | 0           | 0        |
| BASAL CELL ADENOCARCINOMA                       |  | 1         | 1         | 0         | 0           | 0        |
| MALIGNANT MYOEPITHELIOMA                        |  | 2         | 2         | 0         | 0           | 0        |
| MUCOEPIDERMOID CARCINOMA                        |  | 3         | 2         | 0         | 1           | 0        |
| <b>TONSIL</b>                                   |  | <b>2</b>  | <b>2</b>  | <b>0</b>  | <b>0</b>    | <b>0</b> |
| SQUAMOUS CELL CARCINOMA, HPV-POSITIVE           |  | 1         | 1         | 0         | 0           | 0        |
| SQUAMOUS CELL CARCINOMA KERATINIZING NOS        |  | 1         | 1         | 0         | 0           | 0        |
| <b>OPHOPHARYNX</b>                              |  | <b>4</b>  | <b>3</b>  | <b>1</b>  | <b>0</b>    | <b>0</b> |
| SQUAMOUS CELL CARCINOMA KERATINIZING NOS        |  | 2         | 1         | 1         | 0           | 0        |
| SQUAMOUS CELL CARCINOMA NOS                     |  | 1         | 1         | 0         | 0           | 0        |
| SQUAMOUS CELL CARCINOMA, HPV-POSITIVE           |  | 1         | 1         | 0         | 0           | 0        |
| <b>HYPOPHARYNX</b>                              |  | <b>8</b>  | <b>3</b>  | <b>5</b>  | <b>0</b>    | <b>0</b> |
| SQUAMOUS CELL CARCINOMA KERATINIZING NOS        |  | 3         | 1         | 2         | 0           | 0        |
| SQUAMOUS CELL CA LARGE CELL NONKERATINIZING NOS |  | 1         | 0         | 1         | 0           | 0        |
| SQUAMOUS CELL CARCINOMA NOS                     |  | 4         | 2         | 2         | 0           | 0        |

## Classification: Public - عام

| SITE                             | HISTOLOGY<br>(NOS - Not Otherwise Specified)    | ALL CASES<br>5129 | ADULTS     |            | PEADIATRICS |          |
|----------------------------------|---|-------------------|------------|------------|-------------|----------|
|                                  |   |                   | MALE       | FEMALE     | MALE        | FEMALE   |
|                                  |   |                   | 2016       | 2798       | 179         | 134      |
| <b>NASOPHARYNX</b>               |   | <b>92</b>         | <b>67</b>  | <b>24</b>  | <b>1</b>    | <b>0</b> |
|                                  | ADENOCARCINOMA NOS                              | 1                 | 1          | 0          | 0           | 0        |
|                                  | CARCINOMA NOS                                   | 6                 | 5          | 1          | 0           | 0        |
|                                  | CARCINOMA UNDIFFERENTIATED NOS                  | 8                 | 6          | 2          | 0           | 0        |
|                                  | SQUAMOUS CELL CARCINOMA KERATINIZING NOS        | 1                 | 0          | 1          | 0           | 0        |
|                                  | SQUAMOUS CELL CA LARGE CELL NONKERATINIZING NOS | 71                | 52         | 18         | 1           | 0        |
|                                  | SQUAMOUS CELL CARCINOMA NOS                     | 5                 | 3          | 2          | 0           | 0        |
| <b>ESOPHAGUS</b>                 |   | <b>46</b>         | <b>24</b>  | <b>22</b>  | <b>0</b>    | <b>0</b> |
|                                  | ADENOCARCINOMA NOS                              | 17                | 16         | 1          | 0           | 0        |
|                                  | GRANULAR CELL TUMOR MALIGNANT                   | 1                 | 1          | 0          | 0           | 0        |
|                                  | SQUAMOUS CELL CARCINOMA IN SITU NOS             | 1                 | 0          | 1          | 0           | 0        |
|                                  | SQUAMOUS CELL CARCINOMA KERATINIZING NOS        | 4                 | 1          | 3          | 0           | 0        |
|                                  | SQUAMOUS CELL CARCINOMA NOS                     | 23                | 6          | 17         | 0           | 0        |
| <b>STOMACH</b>                   |   | <b>90</b>         | <b>46</b>  | <b>44</b>  | <b>0</b>    | <b>0</b> |
|                                  | ADENOCARCINOMA INTESTINAL TYPE                  | 13                | 8          | 5          | 0           | 0        |
|                                  | ADENOCARCINOMA NOS                              | 47                | 27         | 20         | 0           | 0        |
|                                  | ATYPICAL CARCINOID TUMOR                        | 4                 | 1          | 3          | 0           | 0        |
|                                  | CARCINOID TUMOR NOS                             | 2                 | 2          | 0          | 0           | 0        |
|                                  | CARCINOMA DIFFUSE TYPE                          | 2                 | 1          | 1          | 0           | 0        |
|                                  | CARCINOMA NOS                                   | 1                 | 0          | 1          | 0           | 0        |
|                                  | GASTROINTESTINAL STROMAL SARCOMA                | 10                | 4          | 6          | 0           | 0        |
|                                  | SIGNET RING CELL CARCINOMA                      | 11                | 3          | 8          | 0           | 0        |
| <b>SMALL INTESTINE</b>           |   | <b>21</b>         | <b>10</b>  | <b>11</b>  | <b>0</b>    | <b>0</b> |
|                                  | ADENOCARCINOMA NOS                              | 8                 | 4          | 4          | 0           | 0        |
|                                  | ATYPICAL CARCINOID TUMOR                        | 1                 | 0          | 1          | 0           | 0        |
|                                  | CARCINOID TUMOR NOS                             | 7                 | 3          | 4          | 0           | 0        |
|                                  | GASTROINTESTINAL STROMAL SARCOMA                | 2                 | 1          | 1          | 0           | 0        |
|                                  | MALIGNANT MELANOMA NOS                          | 1                 | 1          | 0          | 0           | 0        |
|                                  | NEUROENDOCRINE CARCINOMA NOS                    | 2                 | 1          | 1          | 0           | 0        |
| <b>COLON</b>                     |   | <b>245</b>        | <b>124</b> | <b>120</b> | <b>0</b>    | <b>1</b> |
|                                  | ADENOCARCINOMA NOS                              | 224               | 110        | 114        | 0           | 0        |
|                                  | ATYPICAL CARCINOID TUMOR                        | 1                 | 0          | 1          | 0           | 0        |
|                                  | CARCINOID TUMOR NOS                             | 6                 | 4          | 1          | 0           | 1        |
|                                  | CARCINOMA IN SITU NOS                           | 1                 | 1          | 0          | 0           | 0        |
|                                  | CARCINOMA NOS                                   | 1                 | 0          | 1          | 0           | 0        |
|                                  | MUCINOUS ADENOCARCINOMA                         | 9                 | 7          | 2          | 0           | 0        |
|                                  | MUCINOUS ADENOCARCINOMA IN SITU                 | 1                 | 1          | 0          | 0           | 0        |
|                                  | NEOPLASM IN SITU                                | 1                 | 1          | 0          | 0           | 0        |
|                                  | SIGNET RING CELL CARCINOMA                      | 1                 | 0          | 1          | 0           | 0        |
| <b>RECTUM &amp; RECTOSIGMOID</b> |   | <b>190</b>        | <b>99</b>  | <b>91</b>  | <b>0</b>    | <b>0</b> |
|                                  | ADENOCARCINOMA NOS                              | 183               | 94         | 89         | 0           | 0        |
|                                  | ATYPICAL CARCINOID TUMOR                        | 1                 | 1          | 0          | 0           | 0        |
|                                  | CARCINOID TUMOR NOS                             | 4                 | 3          | 1          | 0           | 0        |
|                                  | MUCINOUS ADENOCARCINOMA                         | 1                 | 1          | 0          | 0           | 0        |
|                                  | SIGNET RING CELL CARCINOMA                      | 1                 | 0          | 1          | 0           | 0        |

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| SITE                                    | HISTOLOGY<br>(NOS - Not Otherwise Specified)   | ALL CASES<br>5129 | ADULTS     |           | PEADIATRICS |          |
|---|--|-------------------|------------|-----------|-------------|----------|
|   |  |                   | MALE       | FEMALE    | MALE        | FEMALE   |
|   |  |                   | 2016       | 2798      | 179         | 134      |
| <b>ANUS,ANAL CANAL,ANORECTUM</b>        |  | <b>7</b>          | <b>5</b>   | <b>2</b>  | <b>0</b>    | <b>0</b> |
|   | ADENOCARCINOMA NOS                             | 2                 | 1          | 1         | 0           | 0        |
|   | SQUAMOUS CELL CARCINOMA KERATINIZING NOS       | 1                 | 1          | 0         | 0           | 0        |
|   | SQUAMOUS CELL CARCINOMA NOS                    | 4                 | 3          | 1         | 0           | 0        |
| <b>LIVER</b>                            |  | <b>154</b>        | <b>102</b> | <b>52</b> | <b>0</b>    | <b>0</b> |
|   | ADENOCARCINOMA NOS                             | 3                 | 3          | 0         | 0           | 0        |
|   | CHOLANGIOPANCREATIC CARCINOMA                  | 16                | 6          | 10        | 0           | 0        |
|   | COMBINED HCC AND CHOLANGIOPANCREATIC CARCINOMA | 1                 | 1          | 0         | 0           | 0        |
|   | HEPATOCELLULAR CARCINOMA NOS                   | 134               | 92         | 42        | 0           | 0        |
| <b>GYPSUM</b>                           |  | <b>26</b>         | <b>6</b>   | <b>20</b> | <b>0</b>    | <b>0</b> |
|   | ADENOCARCINOMA NOS                             | 25                | 6          | 19        | 0           | 0        |
|   | ADENOSQUAMOUS CARCINOMA                        | 1                 | 0          | 1         | 0           | 0        |
| <b>BILE DUCTS</b>                       |  | <b>27</b>         | <b>21</b>  | <b>6</b>  | <b>0</b>    | <b>0</b> |
|   | ADENOCARCINOMA INTESTINAL TYPE                 | 2                 | 2          | 0         | 0           | 0        |
|   | ADENOCARCINOMA NOS                             | 12                | 9          | 3         | 0           | 0        |
|   | CHOLANGIOPANCREATIC CARCINOMA                  | 11                | 8          | 3         | 0           | 0        |
|   | CHORIOCARCINOMA NOS                            | 1                 | 1          | 0         | 0           | 0        |
|   | SQUAMOUS CELL CARCINOMA NOS                    | 1                 | 1          | 0         | 0           | 0        |
| <b>PANCREAS</b>                         |  | <b>125</b>        | <b>84</b>  | <b>41</b> | <b>0</b>    | <b>0</b> |
|   | ADENOCARCINOMA NOS                             | 99                | 67         | 32        | 0           | 0        |
|   | ADENOSQUAMOUS CARCINOMA                        | 1                 | 1          | 0         | 0           | 0        |
|   | ATYPICAL CARCINOID TUMOR                       | 4                 | 2          | 2         | 0           | 0        |
|   | CARCINOID TUMOR NOS                            | 10                | 6          | 4         | 0           | 0        |
|   | CARCINOMA NOS                                  | 5                 | 5          | 0         | 0           | 0        |
|   | NEUROENDOCRINE CARCINOMA NOS                   | 2                 | 1          | 1         | 0           | 0        |
|   | SMALL CELL CARCINOMA NOS                       | 1                 | 1          | 0         | 0           | 0        |
|   | SOLID PSEUDOPAPILLARY CARCINOMA                | 3                 | 1          | 2         | 0           | 0        |
| <b>PERITONEUM &amp; RETROPERITONEUM</b> |  | <b>8</b>          | <b>3</b>   | <b>3</b>  | <b>2</b>    | <b>0</b> |
|   | ADENOCARCINOMA NOS                             | 2                 | 0          | 2         | 0           | 0        |
|   | CARCINOSARCOMA NOS                             | 1                 | 0          | 1         | 0           | 0        |
|   | MESOTHELIOMA MALIGNANT                         | 1                 | 1          | 0         | 0           | 0        |
|   | MIXED GERM CELL TUMOR                          | 1                 | 1          | 0         | 0           | 0        |
|   | NEUROBLASTOMA NOS                              | 2                 | 0          | 0         | 2           | 0        |
|   | NEUROENDOCRINE CARCINOMA NOS                   | 1                 | 1          | 0         | 0           | 0        |
| <b>OTHER DIGESTIVE</b>                  |  | <b>17</b>         | <b>5</b>   | <b>12</b> | <b>0</b>    | <b>0</b> |
|   | ADENOCARCINOMA NOS                             | 10                | 3          | 7         | 0           | 0        |
|   | ATYPICAL CARCINOID TUMOR                       | 1                 | 0          | 1         | 0           | 0        |
|   | GASTROINTESTINAL STROMAL SARCOMA               | 1                 | 0          | 1         | 0           | 0        |
|   | MUCINOUS ADENOCARCINOMA                        | 1                 | 1          | 0         | 0           | 0        |
|   | NEUROENDOCRINE CARCINOMA NOS                   | 2                 | 1          | 1         | 0           | 0        |
|   | SIGNET RING CELL CARCINOMA                     | 2                 | 0          | 2         | 0           | 0        |

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| SITE                                     | HISTOLOGY<br>(NOS - Not Otherwise Specified) | ALL CASES<br>5129 | ADULTS     |           | PEADIATRICS |          |
|--|--|-------------------|------------|-----------|-------------|----------|
|  |  |                   | MALE       | FEMALE    | MALE        | FEMALE   |
| <b>NASAL CAVITY</b>                      |  | <b>12</b>         | <b>8</b>   | <b>4</b>  | <b>0</b>    | <b>0</b> |
| ADENOCARCINOMA NOS                       |  | 1                 | 0          | 1         | 0           | 0        |
| ADENOID CYSTIC CARCINOMA                 |  | 2                 | 1          | 1         | 0           | 0        |
| OLFACTORY NEUROBLASTOMA                  |  | 1                 | 0          | 1         | 0           | 0        |
| SQUAMOUS CELL CARCINOMA KERATINIZING NOS |  | 2                 | 2          | 0         | 0           | 0        |
| SQUAMOUS CELL CARCINOMA NOS              |  | 6                 | 5          | 1         | 0           | 0        |
| <b>LARYNX</b>                            |  | <b>11</b>         | <b>11</b>  | <b>0</b>  | <b>0</b>    | <b>0</b> |
| SQUAMOUS CELL CARCINOMA KERATINIZING NOS |  | 5                 | 5          | 0         | 0           | 0        |
| SQUAMOUS CELL CARCINOMA NOS              |  | 5                 | 5          | 0         | 0           | 0        |
| SQUAMOUS CELL CARCINOMA SPINDLE CELL     |  | 1                 | 1          | 0         | 0           | 0        |
| <b>LUNG &amp; BRONCHUS</b>               |  | <b>157</b>        | <b>110</b> | <b>45</b> | <b>1</b>    | <b>1</b> |
| ADENOCARCINOMA NOS                       |  | 70                | 43         | 27        | 0           | 0        |
| ADENOID CYSTIC CARCINOMA                 |  | 2                 | 0          | 2         | 0           | 0        |
| ATYPICAL CARCINOID TUMOR                 |  | 4                 | 3          | 1         | 0           | 0        |
| CARCINOID TUMOR NOS                      |  | 5                 | 2          | 3         | 0           | 0        |
| CARCINOMA NOS                            |  | 1                 | 1          | 0         | 0           | 0        |
| INVASIVE MUCINOUS ADENOCARCINOMA         |  | 1                 | 1          | 0         | 0           | 0        |
| MUCINOUS ADENOCARCINOMA                  |  | 3                 | 2          | 1         | 0           | 0        |
| NEUROENDOCRINE CARCINOMA NOS             |  | 2                 | 0          | 2         | 0           | 0        |
| NON-SMALL CELL CARCINOMA                 |  | 35                | 28         | 7         | 0           | 0        |
| PLEOMORPHIC CARCINOMA                    |  | 2                 | 2          | 0         | 0           | 0        |
| PLEUROPULMONARY BLASTOMA                 |  | 2                 | 0          | 0         | 1           | 1        |
| PSEUDOSARCOMATOUS CARCINOMA              |  | 1                 | 1          | 0         | 0           | 0        |
| SPINDLE CELL CARCINOMA NOS               |  | 1                 | 1          | 0         | 0           | 0        |
| SQUAMOUS CELL CARCINOMA KERATINIZING NOS |  | 1                 | 1          | 0         | 0           | 0        |
| SQUAMOUS CELL CARCINOMA NOS              |  | 14                | 13         | 1         | 0           | 0        |
| SMALL CELL CARCINOMA NOS                 |  | 13                | 12         | 1         | 0           | 0        |
| <b>PLEURA</b>                            |  | <b>2</b>          | <b>2</b>   | <b>0</b>  | <b>0</b>    | <b>0</b> |
| MESOTHELIOMA MALIGNANT                   |  | 2                 | 2          | 0         | 0           | 0        |
| <b>OTHER RESPIR &amp; THORACIC</b>       |  | <b>5</b>          | <b>1</b>   | <b>0</b>  | <b>3</b>    | <b>1</b> |
| GANGLIONEUROBLASTOMA                     |  | 1                 | 0          | 0         | 0           | 1        |
| NEUROBLASTOMA NOS                        |  | 3                 | 0          | 0         | 3           | 0        |
| SEMINOMA NOS                             |  | 1                 | 1          | 0         | 0           | 0        |
| <b>MYELOMA</b>                           |  | <b>47</b>         | <b>26</b>  | <b>21</b> | <b>0</b>    | <b>0</b> |
| MULTIPLE MYELOMA                         |  | 45                | 25         | 20        | 0           | 0        |
| PLASMACYTOMA NOS                         |  | 2                 | 1          | 1         | 0           | 0        |

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| SITE   | HISTOLOGY<br>(NOS - Not Otherwise Specified) | ALL CASES  | ADULTS    |           | PEADIATRICS |        |
|--|--|------------|-----------|-----------|-------------|--------|
|  |  |            | MALE      | FEMALE    | MALE        | FEMALE |
|  |  | 5129       | 2016      | 2798      | 179         | 134    |
| <b>BONE MARROW</b>                             | <b>298</b>                                   | <b>114</b> | <b>93</b> | <b>53</b> | <b>38</b>   |        |
| ACUTE LEUKEMIA BURKITT TYPE                    | 11   | 3          | 2         | 3         | 3           |        |
| ACUTE LEUKEMIA NOS                             | 43   | 10         | 9         | 15        | 9           |        |
| ACUTE MEGAKARYOBLASTIC LEUKEMIA                | 1  | 0          | 0         | 1         | 0           |        |
| ACUTE MONOCYTIC LEUKEMIA                       | 1  | 0          | 0         | 1         | 0           |        |
| ACUTE MYELOID LEUKEMIA M6 TYPE                 | 4  | 1          | 2         | 1         | 0           |        |
| ACUTE MYELOID LEUKEMIA MINIMAL DIFFERENTIATION | 1  | 1          | 0         | 0         | 0           |        |
| ACUTE MYELOID LEUKEMIA NOS                     | 57   | 25         | 20        | 8         | 4           |        |
| ACUTE MYELOMONOCYTIC LEUKEMIA                  | 1  | 0          | 0         | 0         | 1           |        |
| ACUTE PROMYELOCYTIC LEUKEMIA                   | 2  | 1          | 0         | 0         | 1           |        |
| CHRONIC MYELOID LEUKEMIA NOS                   | 27   | 15         | 12        | 0         | 0           |        |
| CHRONIC MYELOMONOCYTIC LEUKEMIA NOS            | 2  | 1          | 1         | 0         | 0           |        |
| ESSENTIAL THROMBOCYTHEMIA                      | 7  | 1          | 2         | 1         | 3           |        |
| FOLLICULAR DENDRITIC CELL SARCOMA              | 2  | 2          | 0         | 0         | 0           |        |
| HAIRY CELL LEUKEMIA                            | 5  | 5          | 0         | 0         | 0           |        |
| HYPEREOSINOPHILIC SYNDROME                     | 1  | 0          | 0         | 0         | 1           |        |
| LANGERHANS CELL HISTIOCYTOSIS NOS              | 8  | 0          | 1         | 4         | 3           |        |
| LEUKEMIA NOS                                   | 38   | 14         | 2         | 12        | 10          |        |
| MYELODYSPLASTIC SYNDROME NOS                   | 6  | 2          | 2         | 2         | 0           |        |
| MYELODYSPLASTIC/MYELOPROLIFERATIVE NEOPLASM    | 36   | 13         | 20        | 2         | 1           |        |
| MYELOID SARCOMA                                | 3  | 2          | 1         | 0         | 0           |        |
| MYELOSCLEROSIS WITH MYELOID METAPLASIA         | 3  | 1          | 1         | 1         | 0           |        |
| PRECURSOR CELL LYMPHOBLASTIC LEUKEMIA          | 1  | 0          | 0         | 1         | 0           |        |
| POLYCYTHEMIA VERA                              | 1  | 0          | 1         | 0         | 0           |        |
| PROLYMPHOCYTIC LEUKEMIA T-CELL TYPE            | 1  | 0          | 1         | 0         | 0           |        |
| T-CELL LG GRAN LYMPH LEUK                      | 6  | 2          | 1         | 1         | 2           |        |
| ACUTE MYELOID LEUKEMIA WITH MUTATED NPM1       | 1  | 0          | 1         | 0         | 0           |        |
| ESSENTIAL THROMBOCYTHEMIA                      | 8  | 6          | 2         | 0         | 0           |        |
| FOLLICULAR DENDRITIC CELL SARCOMA              | 1  | 0          | 1         | 0         | 0           |        |
| LANGERHANS CELL HISTIOCYTOSIS NOS              | 1  | 1          | 0         | 0         | 0           |        |
| MYELODYSPLASTIC SYNDROME NOS                   | 14   | 5          | 9         | 0         | 0           |        |
| POLYCYTHEMIA VERA                              | 5  | 3          | 2         | 0         | 0           |        |

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| SITE                                    | HISTOLOGY<br>(NOS - Not Otherwise Specified) | ALL CASES<br>5129 | ADULTS       |                | PEADIATRICS |               |
|---|--|-------------------|--------------|----------------|-------------|---------------|
|   |  |                   | MALE<br>2016 | FEMALE<br>2798 | MALE<br>179 | FEMALE<br>134 |
| <b>SOFT TISSUE</b>                      | <b>163</b>                                   | <b>65</b>         | <b>73</b>    | <b>16</b>      | <b>9</b>    |               |
| AMELOBLASTOMA MALIGNANT                 | 1  | 1                 | 0            | 0              | 0           | 0             |
| CARCINOSARCOMA NOS                      | 5  | 0                 | 4            | 1              | 0           | 0             |
| CHONDROSARCOMA NOS                      | 2  | 2                 | 0            | 0              | 0           | 0             |
| DEDIFFERENTIATED LIPOSARCOMA            | 1  | 1                 | 0            | 0              | 0           | 0             |
| DERMATOFIBROSARCOMA NOS                 | 11   | 4                 | 7            | 0              | 0           | 0             |
| DESMOPLASTIC SMALL ROUND CELL TUMOR     | 1  | 1                 | 0            | 0              | 0           | 0             |
| EMBRYONAL RHABDOMYOSARCOMA NOS          | 1  | 1                 | 0            | 0              | 0           | 0             |
| ENDOMETRIAL STROMAL SARCOMA NOS         | 4  | 0                 | 4            | 0              | 0           | 0             |
| EPITHELIOID HEMANGIOENDOTHELIOMA        | 1  | 0                 | 1            | 0              | 0           | 0             |
| EPITHELIOID SARCOMA                     | 2  | 0                 | 1            | 1              | 0           | 0             |
| EWING SARCOMA                           | 4  | 2                 | 2            | 0              | 0           | 0             |
| FIBROMYXOSARCOMA                        | 1  | 0                 | 1            | 0              | 0           | 0             |
| FIBROSARCOMA NOS                        | 1  | 1                 | 0            | 0              | 0           | 0             |
| GASTROINTESTINAL STROMAL SARCOMA        | 1  | 1                 | 0            | 0              | 0           | 0             |
| GIANT CELL SARCOMA (EXCEPT OF BONE)     | 4  | 3                 | 1            | 0              | 0           | 0             |
| HEMANGIOSARCOMA                         | 5  | 4                 | 1            | 0              | 0           | 0             |
| INFANTILE FIBROSARCOMA                  | 1  | 0                 | 0            | 1              | 0           | 0             |
| LEIOMYOSARCOMA NOS                      | 19   | 3                 | 16           | 0              | 0           | 0             |
| LIPOSARCOMA NOS                         | 10   | 4                 | 6            | 0              | 0           | 0             |
| LIPOSARCOMA WELL DIFFERENTIATED         | 3  | 2                 | 1            | 0              | 0           | 0             |
| MALIGNANT RABDOID TUMOR                 | 2  | 0                 | 0            | 1              | 1           | 0             |
| MALIGNANT PERIPHERAL NERVE SHEATH TUMOR | 1  | 1                 | 0            | 0              | 0           | 0             |
| MYXOID CHONDROSARCOMA                   | 1  | 1                 | 0            | 0              | 0           | 0             |
| MYXOID LIPOSARCOMA                      | 4  | 3                 | 1            | 0              | 0           | 0             |
| NEOPLASM MALIGNANT                      | 1  | 1                 | 0            | 0              | 0           | 0             |
| NEUROECTODERMAL TUMOR NOS               | 1  | 0                 | 1            | 0              | 0           | 0             |
| OSTEOSARCOMA NOS                        | 2  | 1                 | 0            | 1              | 0           | 0             |
| PHYLODES TUMOR MALIGNANT                | 1  | 0                 | 1            | 0              | 0           | 0             |
| PLEOMORPHIC LIPOSARCOMA                 | 2  | 1                 | 1            | 0              | 0           | 0             |
| RHABDOMYOSARCOMA NOS                    | 21   | 6                 | 3            | 8              | 4           | 0             |
| SARCOMA NOS                             | 19   | 8                 | 10           | 1              | 0           | 0             |
| SOLITARY FIBROUS TUMOR MALIGNANT        | 1  | 1                 | 0            | 0              | 0           | 0             |
| SMALL CELL SARCOMA                      | 1  | 0                 | 0            | 1              | 0           | 0             |
| SPINDLE CELL SARCOMA                    | 18   | 8                 | 8            | 1              | 1           | 0             |
| STROMAL SARCOMA NOS                     | 1  | 0                 | 1            | 0              | 0           | 0             |
| SYNOVIAL SARCOMA NOS                    | 8  | 4                 | 2            | 0              | 2           | 0             |
| SYNOVIAL SARCOMA SPINDLE CELL           | 1  | 0                 | 0            | 0              | 1           | 0             |

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| SITE  | HISTOLOGY<br>(NOS - Not Otherwise Specified) | ALL CASES<br>5129 | ADULTS    |           | PEADIATRICS |           |
|---|--|-------------------|-----------|-----------|-------------|-----------|
|   |  |                   | MALE      | FEMALE    | MALE        | FEMALE    |
| <b>BONE</b>                                 |  | <b>78</b>         | <b>31</b> | <b>18</b> | <b>16</b>   | <b>13</b> |
| CHONDROBLASTIC OSTEOSARCOMA                 |  | 1                 | 1         | 0         | 0           | 0         |
| CHONDROID CHORDOMA                          |  | 1                 | 1         | 0         | 0           | 0         |
| CHONDROSARCOMA NOS                          |  | 8                 | 1         | 5         | 0           | 2         |
| CHORDOMA NOS                                |  | 2                 | 1         | 1         | 0           | 0         |
| EWING SARCOMA                               |  | 24                | 6         | 3         | 8           | 7         |
| FIBROSARCOMA NOS                            |  | 1                 | 1         | 0         | 0           | 0         |
| GIANT CELL SARCOMA                          |  | 1                 | 0         | 1         | 0           | 0         |
| GIANT CELL TUMOR OF BONE MALIGNANT          |  | 5                 | 3         | 2         | 0           | 0         |
| HEMANGIOSARCOMA                             |  | 1                 | 0         | 1         | 0           | 0         |
| LEIOMYOSARCOMA NOS                          |  | 1                 | 0         | 1         | 0           | 0         |
| NEUROECTODERMAL TUMOR NOS                   |  | 1                 | 1         | 0         | 0           | 0         |
| OSTEOSARCOMA IN PAGET DISEASE OF BONE       |  | 1                 | 1         | 0         | 0           | 0         |
| OSTEOSARCOMA NOS                            |  | 24                | 12        | 3         | 6           | 3         |
| SARCOMA NOS                                 |  | 1                 | 1         | 0         | 0           | 0         |
| SPINDLE CELL SARCOMA                        |  | 1                 | 1         | 0         | 0           | 0         |
| CENTRAL OSTEOSARCOMA                        |  | 1                 | 0         | 0         | 1           | 0         |
| SMALL CELL SARCOMA                          |  | 1                 | 0         | 0         | 1           | 0         |
| TERATOMA MALIGNANT NOS (EXTRA-GONADAL)      |  | 1                 | 0         | 0         | 0           | 1         |
| SQUAMOUS CELL CARCINOMA NOS                 |  | 2                 | 1         | 1         | 0           | 0         |
| <b>SKIN (MELANOMA)</b>                      |  | <b>12</b>         | <b>7</b>  | <b>5</b>  | <b>0</b>    | <b>0</b>  |
| ACRAL LENTIGINOUS MELANOMA MALIGNANT        |  | 1                 | 1         | 0         | 0           | 0         |
| MALIGNANT MELANOMA IN GIANT PIGMENTED NEVUS |  | 1                 | 1         | 0         | 0           | 0         |
| MALIGNANT MELANOMA NOS                      |  | 8                 | 4         | 4         | 0           | 0         |
| MELANOMA IN SITU                            |  | 2                 | 1         | 1         | 0           | 0         |
| <b>SKIN (NON MELANOMA)</b>                  |  | <b>32</b>         | <b>23</b> | <b>9</b>  | <b>0</b>    | <b>0</b>  |
| BASAL CELL CARCINOMA NODULAR                |  | 5                 | 3         | 2         | 0           | 0         |
| BASAL CELL CARCINOMA NOS                    |  | 13                | 8         | 5         | 0           | 0         |
| BASALOID SQUAMOUS CELL CARCINOMA            |  | 1                 | 1         | 0         | 0           | 0         |
| DERMATOFIBROSARCOMA NOS                     |  | 1                 | 1         | 0         | 0           | 0         |
| PAPILLARY SYRINGADENOMA MALIGNANT           |  | 1                 | 1         | 0         | 0           | 0         |
| SQUAMOUS CELL CARCINOMA IN SITU NOS         |  | 2                 | 0         | 2         | 0           | 0         |
| SQUAMOUS CELL CARCINOMA NOS                 |  | 9                 | 9         | 0         | 0           | 0         |
| <b>KAPOSI SARCOMA</b>                       |  | <b>6</b>          | <b>4</b>  | <b>1</b>  | <b>0</b>    | <b>1</b>  |
| KAPOSI SARCOMA                              |  | 6                 | 4         | 1         | 0           | 1         |

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| SITE  | HISTOLOGY<br>(NOS - Not Otherwise Specified) | ALL CASES<br>5129 | ADULTS       |                | PEADIATRICS |               |
|---|--|-------------------|--------------|----------------|-------------|---------------|
|   |  |                   | MALE<br>2016 | FEMALE<br>2798 | MALE<br>179 | FEMALE<br>134 |
| <b>BREAST</b>                                   | <b>844</b>                                   | <b>12</b>         | <b>832</b>   | <b>0</b>       | <b>0</b>    | <b>0</b>      |
| ADENOCARCINOMA NOS                              | 2  | 0                 | 2            | 0              | 0           | 0             |
| CARCINOMA IN SITU NOS                           | 1  | 0                 | 1            | 0              | 0           | 0             |
| CARCINOMA NOS                                   | 10   | 0                 | 10           | 0              | 0           | 0             |
| COMEDOCARCINOMA NONINfiltrating                 | 1  | 0                 | 1            | 0              | 0           | 0             |
| CRIBRIFORM CARCINOMA IN SITU                    | 1  | 0                 | 1            | 0              | 0           | 0             |
| CRIBRIFORM CARCINOMA NOS                        | 1  | 0                 | 1            | 0              | 0           | 0             |
| INFILTRATING DUCT AND LOBULAR CARCINOMA         | 1  | 0                 | 1            | 0              | 0           | 0             |
| INTRACYSTIC CARCINOMA NOS                       | 1  | 0                 | 1            | 0              | 0           | 0             |
| INTRADUCTAL CARCINOMA NONINfiltrating NOS       | 63   | 0                 | 63           | 0              | 0           | 0             |
| INVASIVE DUCTAL CARCINOMA                       | 694  | 11                | 683          | 0              | 0           | 0             |
| INVASIVE MICROPAPILLARY CARCINOMA               | 2  | 0                 | 2            | 0              | 0           | 0             |
| LOBULAR CARCINOMA IN SITU NOS                   | 5  | 0                 | 5            | 0              | 0           | 0             |
| LOBULAR CARCINOMA NOS                           | 48   | 0                 | 48           | 0              | 0           | 0             |
| METAPLASTIC CARCINOMA NOS                       | 2  | 0                 | 2            | 0              | 0           | 0             |
| MUCINOUS ADENOCARCINOMA                         | 5  | 0                 | 5            | 0              | 0           | 0             |
| NONINfiltrating INTRACYSTIC CARCINOMA           | 1  | 1                 | 0            | 0              | 0           | 0             |
| NONINfiltrating INTRADUCT PAPILLARY ADENOCA     | 1  | 0                 | 1            | 0              | 0           | 0             |
| PAGET DISEASE AND INTRADUCTAL CARCINOMA IN SITU | 1  | 0                 | 1            | 0              | 0           | 0             |
| PAPILLARY CARCINOMA IN SITU                     | 1  | 0                 | 1            | 0              | 0           | 0             |
| PHYLLODES TUMOR MALIGNANT                       | 1  | 0                 | 1            | 0              | 0           | 0             |
| SECRETORY CARCINOMA OF BREAST                   | 1  | 0                 | 1            | 0              | 0           | 0             |
| TUBULAR ADENOCARCINOMA                          | 1  | 0                 | 1            | 0              | 0           | 0             |
| <b>CERVIX UTERI</b>                             | <b>79</b>                                    | <b>0</b>          | <b>79</b>    | <b>0</b>       | <b>0</b>    | <b>0</b>      |
| ADENOCARCINOMA IN SITU, HPV-ASSOCIATED          | 1  | 0                 | 1            | 0              | 0           | 0             |
| SQUAMOUS CARCINOMA SPINDLE IN SITU              | 1  | 0                 | 1            | 0              | 0           | 0             |
| SQUAMOUS CELL CARCINOMA IN-SITU, HPV (+VE)      | 1  | 0                 | 1            | 0              | 0           | 0             |
| SQUAMOUS INTRAEPITHELIAL NEOPLASIA GRADE III    | 9  | 0                 | 9            | 0              | 0           | 0             |
| ADENOCARCINOMA NOS                              | 10   | 0                 | 10           | 0              | 0           | 0             |
| ADENOCARCINOMA, HPV-ASSOCIATED                  | 1  | 0                 | 1            | 0              | 0           | 0             |
| CARCINOMA NOS                                   | 3  | 0                 | 3            | 0              | 0           | 0             |
| CARCINOSARCOMA NOS                              | 1  | 0                 | 1            | 0              | 0           | 0             |
| CLEAR CELL ADENOCARCINOMA NOS                   | 1  | 0                 | 1            | 0              | 0           | 0             |
| ENDOMETRIOD ADENOCARCINOMA NOS                  | 1  | 0                 | 1            | 0              | 0           | 0             |
| MESONEPHROMA MALIGNANT                          | 1  | 0                 | 1            | 0              | 0           | 0             |
| SEROUS CYSTADENOCARCINOMA NOS                   | 3  | 0                 | 3            | 0              | 0           | 0             |
| SQUAMOUS CELL CARCINOMA KERATINIZING NOS        | 1  | 0                 | 1            | 0              | 0           | 0             |
| SQUAMOUS CELL CA LARGE CELL NONKERATINIZING NOS | 5  | 0                 | 5            | 0              | 0           | 0             |
| SQUAMOUS CELL CARCINOMA NOS                     | 32   | 0                 | 32           | 0              | 0           | 0             |
| SQUAMOUS CELL CARCINOMA, HPV-POSITIVE           | 8  | 0                 | 8            | 0              | 0           | 0             |

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|---|--|-------------------|--------------|----------------|-------------|---------------|
|   |  |                   | MALE<br>2016 | FEMALE<br>2798 | MALE<br>179 | FEMALE<br>134 |
| <b>CORPUS UTERI</b>                             |  | <b>256</b>        | <b>0</b>     | <b>256</b>     | <b>0</b>    | <b>0</b>      |
| ADENOCARCINOMA NOS                              |  | 26                | 0            | 26             | 0           | 0             |
| ADENOSARCOMA                                    |  | 2                 | 0            | 2              | 0           | 0             |
| CARCINOMA NOS                                   |  | 2                 | 0            | 2              | 0           | 0             |
| CARCINOMA UNDIFFERENTIATED NOS                  |  | 1                 | 0            | 1              | 0           | 0             |
| CARCINOSARCOMA NOS                              |  | 15                | 0            | 15             | 0           | 0             |
| CHORIOCARCINOMA NOS                             |  | 1                 | 0            | 1              | 0           | 0             |
| CLEAR CELL ADENOCARCINOMA NOS                   |  | 10                | 0            | 10             | 0           | 0             |
| ENDOMETRIAL STROMAL SARCOMA NOS                 |  | 2                 | 0            | 2              | 0           | 0             |
| ENDOMETRIOID ADENOCARCINOMA NOS                 |  | 148               | 0            | 148            | 0           | 0             |
| LEIOMYOSARCOMA NOS                              |  | 1                 | 0            | 1              | 0           | 0             |
| MIXED CELL ADENOCARCINOMA                       |  | 1                 | 0            | 1              | 0           | 0             |
| MUCINOUS ADENOCARCINOMA                         |  | 1                 | 0            | 1              | 0           | 0             |
| SEROUS CYSTADENOCARCINOMA NOS                   |  | 31                | 0            | 31             | 0           | 0             |
| SQUAMOUS CELL CA LARGE CELL NONKERATINIZING NOS |  | 2                 | 0            | 2              | 0           | 0             |
| SQUAMOUS CELL CARCINOMA NOS                     |  | 8                 | 0            | 8              | 0           | 0             |
| SQUAMOUS INTRAEPITHELIAL NEOPLASIA GRADE III    |  | 4                 | 0            | 4              | 0           | 0             |
| TROPHOBLASTIC TUMOR EPITHELIOID                 |  | 1                 | 0            | 1              | 0           | 0             |
| <b>UTERUS NOS</b>                               |  | <b>8</b>          | <b>0</b>     | <b>8</b>       | <b>0</b>    | <b>0</b>      |
| ADENOCARCINOMA NOS                              |  | 1                 | 0            | 1              | 0           | 0             |
| ADENOSARCOMA                                    |  | 1                 | 0            | 1              | 0           | 0             |
| SEROUS CYSTADENOCARCINOMA NOS                   |  | 6                 | 0            | 6              | 0           | 0             |
| <b>OVARY</b>                                    |  | <b>93</b>         | <b>0</b>     | <b>92</b>      | <b>0</b>    | <b>1</b>      |
| ADENOCARCINOMA NOS                              |  | 5                 | 0            | 5              | 0           | 0             |
| CLEAR CELL ADENOCARCINOMA NOS                   |  | 2                 | 0            | 2              | 0           | 0             |
| DYSGERMINOMA                                    |  | 2                 | 0            | 2              | 0           | 0             |
| ENDOMETRIOID ADENOCARCINOMA NOS                 |  | 3                 | 0            | 3              | 0           | 0             |
| GRANULOSA CELL TUMOR MALIGNANT                  |  | 7                 | 0            | 7              | 0           | 0             |
| MICROPAPILLARY SEROUS CARCINOMA NON-INVASIVE    |  | 1                 | 0            | 1              | 0           | 0             |
| MUCINOUS ADENOCARCINOMA                         |  | 7                 | 0            | 7              | 0           | 0             |
| MUCINOUS CYSTADENOCARCINOMA NOS                 |  | 1                 | 0            | 1              | 0           | 0             |
| PARAGANGLIOMA MALIGNANT                         |  | 1                 | 0            | 1              | 0           | 0             |
| SEROUS CYSTADENOCARCINOMA NOS                   |  | 52                | 0            | 52             | 0           | 0             |
| SEROUS SURFACE PAPILLARY CARCINOMA              |  | 5                 | 0            | 5              | 0           | 0             |
| SMALL CELL CARCINOMA NOS                        |  | 1                 | 0            | 1              | 0           | 0             |
| STEROID CELL TUMOR MALIGNANT                    |  | 1                 | 0            | 1              | 0           | 0             |
| TERATOMA MALIGNANT NOS                          |  | 3                 | 0            | 2              | 0           | 1             |
| YOLK SAC TUMOR                                  |  | 2                 | 0            | 2              | 0           | 0             |

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|-----------------------------|---|-------------------|--------------|----------------|-------------|---------------|
|                             |   |                   | MALE<br>2016 | FEMALE<br>2798 | MALE<br>179 | FEMALE<br>134 |
| <b>VAGINA</b>               |   | <b>4</b>          | <b>0</b>     | <b>4</b>       | <b>0</b>    | <b>0</b>      |
|                             | CARCINOMA NOS                                   | 1                 | 0            | 1              | 0           | 0             |
|                             | SQUAMOUS CELL CARCINOMA NOS                     | 2                 | 0            | 2              | 0           | 0             |
|                             | SQUAMOUS CELL CARCINOMA, HPV-POSITIVE           | 1                 | 0            | 1              | 0           | 0             |
| <b>VULVA</b>                |   | <b>7</b>          | <b>0</b>     | <b>7</b>       | <b>0</b>    | <b>0</b>      |
|                             | ADENOCARCINOMA NOS                              | 1                 | 0            | 1              | 0           | 0             |
|                             | BASEL CELL CARCINOMA NOS                        | 1                 | 0            | 1              | 0           | 0             |
|                             | MALIGNANT MELANOMA NOS                          | 1                 | 0            | 1              | 0           | 0             |
|                             | SQUAMOUS CELL CARCINOMA NOS                     | 3                 | 0            | 3              | 0           | 0             |
|                             | SQUAMOUS CELL CARCINOMA, HPV-NEGATIVE           | 1                 | 0            | 1              | 0           | 0             |
| <b>OTHER FEMALE GENITAL</b> |   | <b>5</b>          | <b>0</b>     | <b>5</b>       | <b>0</b>    | <b>0</b>      |
|                             | ADENOCARCINOMA NOS                              | 2                 | 0            | 2              | 0           | 0             |
|                             | CARCINOMA NOS                                   | 1                 | 0            | 1              | 0           | 0             |
|                             | CHORIOCARCINOMA NOS                             | 1                 | 0            | 1              | 0           | 0             |
|                             | MUCINOUS ADENOCARCINOMA                         | 1                 | 0            | 1              | 0           | 0             |
| <b>PROSTATE</b>             |   | <b>151</b>        | <b>151</b>   | <b>0</b>       | <b>0</b>    | <b>0</b>      |
|                             | ADENOCARCINOMA NOS                              | 151               | 151          | 0              | 0           | 0             |
| <b>TESTIS</b>               |   | <b>66</b>         | <b>65</b>    | <b>0</b>       | <b>1</b>    | <b>0</b>      |
|                             | CHORIOCARCINOMA NOS                             | 1                 | 1            | 0              | 0           | 0             |
|                             | EMBRYONAL CARCINOMA NOS                         | 2                 | 2            | 0              | 0           | 0             |
|                             | GERMINOMA                                       | 2                 | 2            | 0              | 0           | 0             |
|                             | GRANULOSA CELL TUMOR MALIGNANT                  | 1                 | 1            | 0              | 0           | 0             |
|                             | LEYDIG CELL TUMOR MALIGNANT                     | 1                 | 1            | 0              | 0           | 0             |
|                             | MALIGNANT TERATOMA UNDIFFERENTIATED             | 1                 | 1            | 0              | 0           | 0             |
|                             | MIXED GERM CELL TUMOR                           | 17                | 17           | 0              | 0           | 0             |
|                             | SEMINOMA NOS                                    | 36                | 36           | 0              | 0           | 0             |
|                             | SERTOLI-LEYDIG CELL TUMOR POORLY DIFFERENTIATED | 1                 | 1            | 0              | 0           | 0             |
|                             | SPERMATOCYTIC SEMINOMA                          | 1                 | 1            | 0              | 0           | 0             |
|                             | TERATOMA MALIGNANT NOS                          | 1                 | 1            | 0              | 0           | 0             |
|                             | TERATOMA WITH MALIGNANT TRANSFORMATION          | 1                 | 1            | 0              | 0           | 0             |
|                             | YOLK SAC TUMOR                                  | 1                 | 0            | 0              | 1           | 0             |
| <b>PENIS</b>                |   | <b>2</b>          | <b>2</b>     | <b>0</b>       | <b>0</b>    | <b>0</b>      |
|                             | SQUAMOUS CELL CARCINOMA NOS                     | 2                 | 2            | 0              | 0           | 0             |
| <b>BLADDER</b>              |   | <b>116</b>        | <b>99</b>    | <b>15</b>      | <b>2</b>    | <b>0</b>      |
|                             | ADENOCARCINOMA NOS                              | 1                 | 1            | 0              | 0           | 0             |
|                             | CARCINOMA NOS                                   | 1                 | 1            | 0              | 0           | 0             |
|                             | EXTRA-ADRENAL PARAGANGLIOMA MALIGNANT           | 1                 | 1            | 0              | 0           | 0             |
|                             | PAPILLARY TRANSITIONAL CELL CARCINOMA           | 41                | 35           | 6              | 0           | 0             |
|                             | PAPILLARY TRANSITIONAL CELL CA NON-INVASIVE     | 34                | 29           | 4              | 1           | 0             |
|                             | SMALL CELL CARCINOMA NOS                        | 1                 | 1            | 0              | 0           | 0             |
|                             | SQUAMOUS CELL CARCINOMA NOS                     | 1                 | 1            | 0              | 0           | 0             |
|                             | TRANSITIONAL CELL CARCINOMA IN SITU             | 3                 | 3            | 0              | 0           | 0             |
|                             | TRANSITIONAL CELL CARCINOMA NOS                 | 33                | 27           | 5              | 1           | 0             |

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|---|--|-----------|--------|--------|-------------|--------|
|   |  |           | MALE   | FEMALE | MALE        | FEMALE |
|   |  | 5129      | 2016   | 2798   | 179         | 134    |
| <b>KIDNEY AND RENAL PELVIS</b>                    |  | 173       | 108    | 47     | 7           | 11     |
| CARCINOMA NOS                                     |  | 2         | 2      | 0      | 0           | 0      |
| CLEAR CELL ADENOCARCINOMA NOS                     |  | 15        | 13     | 2      | 0           | 0      |
| OXYPHILIC ADENOCARCINOMA                          |  | 1         | 1      | 0      | 0           | 0      |
| PAPILLARY ADENOCARCINOMA NOS                      |  | 8         | 6      | 2      | 0           | 0      |
| PAPILLARY TRANSITIONAL CELL CARCINOMA             |  | 1         | 1      | 0      | 0           | 0      |
| PAPILLARY TRANSITIONAL CELL CA NON-INVASIVE       |  | 1         | 0      | 1      | 0           | 0      |
| RENAL CELL CARCINOMA CHROMOPHOBIC TYPE            |  | 19        | 13     | 6      | 0           | 0      |
| RENAL CELL CARCINOMA NOS                          |  | 106       | 71     | 34     | 1           | 0      |
| SQUAMOUS CELL CARCINOMA NOS                       |  | 1         | 0      | 1      | 0           | 0      |
| TRANSITIONAL CELL CARCINOMA NOS                   |  | 2         | 1      | 1      | 0           | 0      |
| NEPHROBLASTOMA NOS                                |  | 17        | 0      | 0      | 6           | 11     |
| <b>URETER</b>                                     |  | 2         | 1      | 1      | 0           | 0      |
| PAPILLARY TRANSITIONAL CELL CA NON-INVASIVE       |  | 1         | 1      | 0      | 0           | 0      |
| TRANSITIONAL CELL CARCINOMA NOS                   |  | 1         | 0      | 1      | 0           | 0      |
| <b>OTHER URINARY</b>                              |  | 3         | 3      | 0      | 0           | 0      |
| ADENOCARCINOMA NOS                                |  | 1         | 1      | 0      | 0           | 0      |
| CLEAR CELL ADENOCARCINOMA NOS                     |  | 1         | 1      | 0      | 0           | 0      |
| TRANSITIONAL CELL CARCINOMA NOS                   |  | 1         | 1      | 0      | 0           | 0      |
| <b>HODGKIN LYMPHOMA</b>                           |  | 136       | 77     | 43     | 12          | 4      |
| HODGKIN LYMPHOMA LYMPHOCYTE DEPLETION NOS         |  | 1         | 0      | 1      | 0           | 0      |
| HODGKIN LYMPHOMA MIXED CELLULARITY NOS            |  | 13        | 7      | 2      | 3           | 1      |
| HL NODULAR LYMPHOCYTE PREDOMINANCE                |  | 12        | 8      | 3      | 0           | 1      |
| HODGKIN LYMPHOMA NODULAR SCLEROSIS NOS            |  | 38        | 19     | 15     | 3           | 1      |
| HODGKIN LYMPHOMA NOS                              |  | 72        | 43     | 22     | 6           | 1      |
| <b>NON- HODGKIN LYMPHOMA</b>                      |  | 267       | 142    | 109    | 9           | 7      |
| ANAPLASTIC LARGE CELL LYMPHOMA T CELL & NULL CELL |  | 5         | 1      | 4      | 0           | 0      |
| B LYMPHOBLASTIC LEUKEMIA/LYMPHOMA, NOS            |  | 1         | 1      | 0      | 0           | 0      |
| B-CELL CLL/SMALL LYMPHOCYTIC LYMPHOMA             |  | 3         | 1      | 2      | 0           | 0      |
| BURKITT LYMPHOMA NOS                              |  | 5         | 3      | 0      | 1           | 1      |
| CORTICAL T ALL                                    |  | 7         | 4      | 0      | 3           | 0      |
| FOLLICULAR LYMPHOMA GRADE 1                       |  | 11        | 5      | 6      | 0           | 0      |
| FOLLICULAR LYMPHOMA GRADE 2                       |  | 9         | 5      | 4      | 0           | 0      |
| FOLLICULAR LYMPHOMA GRADE 3                       |  | 6         | 3      | 3      | 0           | 0      |
| FOLLICULAR LYMPHOMA NOS                           |  | 9         | 5      | 4      | 0           | 0      |
| INTESTINAL T-CELL LYMPHOMA                        |  | 1         | 1      | 0      | 0           | 0      |
| MALIGNANT LYMPHOMA LARGE B-CELL DIFFUSE NOS       |  | 95        | 50     | 42     | 0           | 3      |
| MALIGNANT LYMPHOMA NON-HODGKIN NOS                |  | 50        | 28     | 18     | 3           | 1      |
| MALIGNANT LYMPHOMA NOS                            |  | 24        | 9      | 13     | 2           | 0      |
| MANTLE CELL LYMPHOMA                              |  | 3         | 3      | 0      | 0           | 0      |
| MARGINAL ZONE B-CELL LYMPHOMA NOS                 |  | 6         | 5      | 1      | 0           | 0      |
| MATURE T-CELL LYMPHOMA NOS                        |  | 8         | 7      | 0      | 0           | 1      |
| MEDIASTINAL LARGE B-CELL LYMPHOMA                 |  | 1         | 0      | 1      | 0           | 0      |
| MYCOSIS FUNGOIDES                                 |  | 19        | 9      | 9      | 0           | 1      |
| NK/T-CELL LYMPHOMA NASAL AND NASAL-TYPE           |  | 1         | 0      | 1      | 0           | 0      |
| PLASMACELLULAR LYMPHOMA                           |  | 1         | 1      | 0      | 0           | 0      |
| PRIMARY FOLLICLE CENTRE LYMPHOMA                  |  | 1         | 1      | 0      | 0           | 0      |
| T-CELL/HISTIOCYTE RICH LARGE B-CELL LYMPHOMA      |  | 1         | 0      | 1      | 0           | 0      |

## Classification: Public - عام

Classification: Public - عام

| SITE                   | HISTOLOGY<br>(NOS - Not Otherwise Specified) | ALL CASES  | ADULTS    |            | PEADIATRICS |          |
|------------------------|--|------------|-----------|------------|-------------|----------|
|                        |  |            | MALE      | FEMALE     | MALE        | FEMALE   |
|                        |  | 5129       | 2016      | 2798       | 179         | 134      |
| <b>EYE</b>             |  | <b>20</b>  | <b>1</b>  | <b>1</b>   | <b>10</b>   | <b>8</b> |
|                        | ADENOCARCINOMA NOS                           | 1          | 1         | 0          | 0           | 0        |
|                        | RETINOBLASTOMA NOS                           | 19         | 0         | 1          | 10          | 8        |
| <b>THYROID</b>         |  | <b>312</b> | <b>76</b> | <b>234</b> | <b>1</b>    | <b>1</b> |
|                        | CARCINOMA ANAPLASTIC NOS                     | 4          | 1         | 3          | 0           | 0        |
|                        | CARCINOMA NOS                                | 4          | 2         | 2          | 0           | 0        |
|                        | FOLLICULAR ADENOCARCINOMA NOS                | 2          | 0         | 2          | 0           | 0        |
|                        | FOLLICULAR CARCINOMA MINIMALLY INVASIVE      | 3          | 0         | 3          | 0           | 0        |
|                        | ENCAPSULATED ANGOINVASIVE FTC                | 3          | 0         | 3          | 0           | 0        |
|                        | INVASIVE ENCAPSULATED FOLLICULAR VARIANT PTC | 4          | 0         | 4          | 0           | 0        |
|                        | MEDULLARY CARCINOMA NOS                      | 1          | 0         | 1          | 0           | 0        |
|                        | MEDULLARY CARCINOMA WITH AMYLOID STROMA      | 2          | 0         | 2          | 0           | 0        |
|                        | NON-INVASIVE FOLLICULAR THYROID NEOPLASM     | 2          | 0         | 2          | 0           | 0        |
|                        | OXYPHILIC ADENOCARCINOMA                     | 4          | 1         | 3          | 0           | 0        |
|                        | PAPILLARY ADENOCARCINOMA NOS                 | 268        | 68        | 199        | 1           | 0        |
|                        | PAPILLARY CARCINOMA COLUMNAR CELL            | 10         | 1         | 9          | 0           | 0        |
|                        | PAPILLARY CARCINOMA FOLLICULAR VARIANT       | 4          | 2         | 1          | 0           | 1        |
|                        | PAPILLARY CARCINOMA OXYPHILIC CELL           | 1          | 1         | 0          | 0           | 0        |
| <b>OTHER ENDOCRINE</b> |  | <b>95</b>  | <b>46</b> | <b>36</b>  | <b>7</b>    | <b>6</b> |
|                        | ADENOCARCINOMA NOS                           | 3          | 3         | 0          | 0           | 0        |
|                        | ADENOMA NOS                                  | 27         | 11        | 6          | 6           | 4        |
|                        | ADRENAL CORTICAL CARCINOMA                   | 7          | 3         | 3          | 0           | 1        |
|                        | ATYPICAL CARCINOID TUMOR                     | 1          | 1         | 0          | 0           | 0        |
|                        | CARCINOMA NOS                                | 1          | 1         | 0          | 0           | 0        |
|                        | CRANIOPHARYNGIOMA                            | 2          | 1         | 1          | 0           | 0        |
|                        | EXTRA-ADRENAL PARAGANGLIOMA MALIGNANT        | 1          | 1         | 0          | 0           | 0        |
|                        | MUCOEPIDERMOID CARCINOMA                     | 1          | 1         | 0          | 0           | 0        |
|                        | NEUROBLASTOMA NOS                            | 1          | 0         | 0          | 1           | 0        |
|                        | PHEOCHROMOCYTOMA MALIGNANT                   | 1          | 1         | 0          | 0           | 0        |
|                        | PITUITARY CARCINOMA NOS                      | 4          | 0         | 4          | 0           | 0        |
|                        | PITUITARY ADENOMA NOS                        | 37         | 19        | 17         | 0           | 1        |
|                        | THYMIC CARCINOMA NOS                         | 1          | 0         | 1          | 0           | 0        |
|                        | THYMOMA TYPE AB MALIGNANT                    | 1          | 1         | 0          | 0           | 0        |
|                        | THYMOMA TYPE B2 MALIGNANT                    | 3          | 2         | 1          | 0           | 0        |
|                        | THYMOMA TYPE B3 MALIGNANT                    | 4          | 1         | 3          | 0           | 0        |

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## Classification: Public - عام

| SITE                                       | HISTOLOGY<br>(NOS - Not Otherwise Specified) | ALL CASES<br>5129 | ADULTS       |                | PEADIATRICS |               |
|--|--|-------------------|--------------|----------------|-------------|---------------|
|  |  |                   | MALE<br>2016 | FEMALE<br>2798 | MALE<br>179 | FEMALE<br>134 |
| <b>BRAIN,CNS</b>                           | <b>500</b>                                   | <b>176</b>        | <b>262</b>   | <b>33</b>      | <b>29</b>   |               |
| ASTROBLASTOMA                              | 1  | 1                 | 0            | 0              | 0           | 0             |
| ASTROCYTOMA ANAPLASTIC                     | 4  | 2                 | 1            | 0              | 1           |               |
| ASTROCYTOMA NOS                            | 32   | 22                | 8            | 0              | 2           |               |
| ATYPICAL MENINGIOMA                        | 4  | 2                 | 2            | 0              | 0           |               |
| CAVERNOUS HEMANGIOMA                       | 3  | 2                 | 1            | 0              | 0           |               |
| CENTRAL NEUROCYTOMA                        | 2  | 0                 | 2            | 0              | 0           |               |
| CHORDOMA NOS                               | 4  | 2                 | 2            | 0              | 0           |               |
| CHOROID PLEXUS PAPILLOMA NOS               | 1  | 1                 | 0            | 0              | 0           |               |
| CRANIOPHARYNGIOMA                          | 6  | 1                 | 2            | 1              | 2           |               |
| CRANIOPHARYNGIOMA ADAMANTINOMATOUS         | 2  | 0                 | 1            | 1              | 0           |               |
| DIFFUSE MIDLINE GLIOMA, H3 K27M-MUTANT     | 2  | 0                 | 2            | 0              | 0           |               |
| DYSEMBRYOPLASTIC NEUROEPITHELIAL TUMOR     | 4  | 2                 | 2            | 0              | 0           |               |
| EPENDYMOMA BENIGN                          | 1  | 1                 | 0            | 0              | 0           |               |
| EPENDYMOMA NOS                             | 13   | 4                 | 3            | 4              | 2           |               |
| EMBRYONAL TUMOR WITH MULTILAYERED ROSETTES | 1  | 0                 | 0            | 0              | 1           |               |
| GANGLIOGLIOMA NOS                          | 10   | 2                 | 4            | 2              | 2           |               |
| GANGLIONEUROBLASTOMA                       | 1  | 0                 | 1            | 0              | 0           |               |
| GANGLIONEUROMA                             | 1  | 1                 | 0            | 0              | 0           |               |
| GERMINOMA                                  | 3  | 1                 | 2            | 0              | 0           |               |
| GLIOBLASTOMA NOS                           | 52   | 27                | 25           | 0              | 0           |               |
| GLIOBLASTOMA, IDH-MUTANT                   | 5  | 1                 | 4            | 0              | 0           |               |
| GLIOMA BENIGN                              | 8  | 7                 | 0            | 1              | 0           |               |
| GLIOMA MALIGNANT                           | 54   | 22                | 16           | 8              | 8           |               |
| GLIOSARCOMA                                | 2  | 0                 | 2            | 0              | 0           |               |
| GLOMUS TUMOR NOS                           | 1  | 0                 | 1            | 0              | 0           |               |
| HEMANGIOBLASTOMA                           | 1  | 0                 | 1            | 0              | 0           |               |
| HEMANGIOMA NOS                             | 1  | 0                 | 0            | 1              | 0           |               |
| JUVENILE ASTROCYTOMA (NON-FORDS)           | 2  | 0                 | 0            | 1              | 1           |               |
| MALIGNANT RHABDOID TUMOR                   | 2  | 0                 | 0            | 2              | 0           |               |
| MEDULLOBLASTOMA NOS                        | 20   | 6                 | 4            | 9              | 1           |               |
| MENINGIOMA MALIGNANT                       | 1  | 1                 | 0            | 0              | 0           |               |
| MENINGIOMA NOS                             | 68   | 11                | 56           | 1              | 0           |               |
| MENINGOHELIAL MENINGIOMA                   | 1  | 0                 | 1            | 0              | 0           |               |
| MYXOPAPILLARY EPENDYMOMA                   | 4  | 3                 | 1            | 0              | 0           |               |

## Classification: Public - عام

| SITE  | HISTOLOGY<br>(NOS - Not Otherwise Specified) | ALL CASES<br>5129 | ADULTS |        | PEADIATRICS |        |
|---|--|-------------------|--------|--------|-------------|--------|
|   |  |                   | MALE   | FEMALE | MALE        | FEMALE |
| NEOPLASM BENIGN                                 |  | 1                 | 1      | 0      | 0           | 0      |
| NERVE SHEATH TUMOR, NOS                         |  | 2                 | 0      | 2      | 0           | 0      |
| NEURILEMOMA NOS                                 |  | 40                | 19     | 21     | 0           | 0      |
| NEUROBLASTOMA NOS                               |  | 1                 | 0      | 0      | 0           | 1      |
| NEUROFIBROMA NOS                                |  | 1                 | 0      | 1      | 0           | 0      |
| OLIGODENDROBLASTOMA                             |  | 1                 | 0      | 1      | 0           | 0      |
| OLIGODENDROGLIOMA ANAPLASTIC                    |  | 2                 | 1      | 1      | 0           | 0      |
| OLIGODENDROGLIOMA NOS                           |  | 10                | 3      | 7      | 0           | 0      |
| PARAGANGLIOMA BENIGN                            |  | 1                 | 1      | 0      | 0           | 0      |
| PILOCYTIC ASTROCYTOMA                           |  | 10                | 2      | 3      | 1           | 4      |
| PILOMYXOID ASTROCYTOMA                          |  | 2                 | 0      | 0      | 0           | 2      |
| PINEOBLASTOMA                                   |  | 1                 | 1      | 0      | 0           | 0      |
| PLEOMORPHIC XANTHOASTROCYTOMA                   |  | 3                 | 1      | 1      | 0           | 1      |
| SUBEPENDYMOMA                                   |  | 1                 | 0      | 1      | 0           | 0      |
| TERATOMA MALIGNANT NOS                          |  | 1                 | 1      | 0      | 0           | 0      |
| TRANSITIONAL MENINGIOMA                         |  | 1                 | 0      | 1      | 0           | 0      |
| ANGIOMATOUS MENINGIOMA                          |  | 1                 | 1      | 0      | 0           | 0      |
| ATYPICAL MENINGIOMA                             |  | 2                 | 0      | 2      | 0           | 0      |
| MENINGIOMA NOS                                  |  | 97                | 21     | 76     | 0           | 0      |
| MENINGOHELIAL MENINGIOMA                        |  | 1                 | 1      | 0      | 0           | 0      |
| MYXOPAPILLARY EPENDYMOMA                        |  | 1                 | 0      | 1      | 0           | 0      |
| ANGIOCENTRIC GLIOMA                             |  | 1                 | 0      | 0      | 0           | 1      |
| NEURILEMOMA NOS                                 |  | 1                 | 1      | 0      | 0           | 0      |
| CHOROID PLEXUS CARCINOMA                        |  | 1                 | 0      | 0      | 1           | 0      |
| UNKNOWN PRIMARY SITE                            |  | 22                | 4      | 11     | 4           | 3      |
| ADENOCARCINOMA NOS                              |  | 4                 | 0      | 4      | 0           | 0      |
| ATYPICAL CARCINOID TUMOR                        |  | 1                 | 0      | 1      | 0           | 0      |
| CARCINOID TUMOR NOS                             |  | 1                 | 0      | 1      | 0           | 0      |
| CARCINOMA NOS                                   |  | 1                 | 0      | 1      | 0           | 0      |
| CARCINOMA UNDIFFERENTIATED NOS                  |  | 1                 | 1      | 0      | 0           | 0      |
| CHORIOCARCINOMA NOS                             |  | 1                 | 1      | 0      | 0           | 0      |
| GANGLIONEUROBLASTOMA                            |  | 1                 | 0      | 1      | 0           | 0      |
| MESOTHELIOMA BIPHASIC MALIGNANT                 |  | 1                 | 1      | 0      | 0           | 0      |
| NEUROBLASTOMA NOS                               |  | 6                 | 0      | 0      | 4           | 2      |
| SMALL CELL CARCINOMA NOS                        |  | 1                 | 1      | 0      | 0           | 0      |
| SQUAMOUS CELL CA LARGE CELL NONKERATINIZING NOS |  | 1                 | 0      | 1      | 0           | 0      |
| SQUAMOUS CELL CARCINOMA NOS                     |  | 2                 | 0      | 2      | 0           | 0      |
| YOLK SAC TUMOR                                  |  | 1                 | 0      | 0      | 0           | 1      |

**TABLE 9**  
**MULTIPLE PRIMARY SITE TABLE**  
**2024**

| PRIMARY SITE<br>2024         | HISTOLOGY<br>(NOS - Not Otherwise Specified) | OTHER PRIMARIES<br>(PREVIOUS OR CONCURRENT) | ALL CASES | MALE     | FEMALE    |
|------------------------------|--|---|-----------|----------|-----------|
|                              |  |   | 100       | 26       | 74        |
| <b>BREAST</b>                |  |   | <b>48</b> | <b>0</b> | <b>48</b> |
|                              | Invasive ductal carcinoma                    | Lt Breast - Invasive ductal carcinoma       | 11        | 0        | 11        |
|                              | Invasive ductal carcinoma                    | Rt Breast - Invasive ductal carcinoma       | 2         | 0        | 2         |
|                              | Invasive ductal carcinoma                    | Lt Breast - Ductal carcinoma in situ        | 4         | 0        | 4         |
|                              | Invasive ductal carcinoma                    | Rt Breast - Ductal carcinoma in situ        | 6         | 0        | 6         |
|                              | Invasive ductal carcinoma                    | Lt Breast - Lobular carcinoma               | 1         | 0        | 1         |
|                              | Invasive ductal carcinoma                    | Rt Breast - Lobular carcinoma               | 2         | 0        | 2         |
|                              | Invasive ductal carcinoma                    | Lt Breast - Mucinous Adenocarcinoma         | 1         | 0        | 1         |
|                              | Invasive ductal carcinoma                    | Rt Breast - Lobular carcinoma in situ       | 1         | 0        | 1         |
|                              | Invasive ductal carcinoma                    | Lt Breast - Lobular carcinoma in situ       | 1         | 0        | 1         |
|                              | Lobular carcinoma                            | Rt Breast - Ductal carcinoma in situ        | 3         | 0        | 3         |
|                              | Lobular carcinoma                            | Lt Breast - Lobular carcinoma               | 3         | 0        | 3         |
|                              | Lobular carcinoma                            | Rt Breast - Lobular carcinoma               | 1         | 0        | 1         |
|                              | Ductal carcinoma in situ                     | Colon - Adenocarcinoma                      | 1         | 0        | 1         |
|                              | Ductal carcinoma in situ                     | Lt Breast - Ductal carcinoma in situ        | 2         | 0        | 2         |
|                              | Ductal carcinoma in situ                     | Rt Breast - Invasive ductal carcinoma       | 2         | 0        | 2         |
|                              | Ductal carcinoma in situ                     | Rt Breast - Invasive ductal carcinoma       | 1         | 0        | 1         |
|                              | Invasive ductal carcinoma                    | Rt Lung - Carcinoid tumor                   | 1         | 0        | 1         |
|                              | Invasive ductal carcinoma                    | Thyroid - Papillary adenocarcinoma          | 3         | 0        | 3         |
|                              | Invasive ductal carcinoma                    | Thyroid - Follicular thyroid carcinoma      | 1         | 0        | 1         |
|                              | Invasive ductal carcinoma                    | Skin - Squamous cell carcinoma in situ      | 1         | 0        | 1         |
| <b>COLON</b>                 |  |   | <b>7</b>  | <b>2</b> | <b>5</b>  |
|                              | Adenocarcinoma                               | Rt Breast - Ductal carcinoma in situ        | 1         | 0        | 1         |
|                              | Adenocarcinoma                               | Rt Breast - Invasive ductal carcinoma       | 1         | 0        | 1         |
|                              | Adenocarcinoma                               | Rt Lung - Neuroendocrine carcinoma          | 1         | 0        | 1         |
|                              | Adenocarcinoma                               | Corpus Uteri - Endometrioid adenocarcinoma  | 1         | 0        | 1         |
|                              | Adenocarcinoma                               | Lt Ovary - Steroid cell tumor               | 1         | 0        | 1         |
|                              | Adenocarcinoma                               | Lt Kidney - Renal cell carcinoma            | 1         | 1        | 0         |
|                              | Adenocarcinoma                               | Colon - Adenocarcinoma                      | 1         | 1        | 0         |
| <b>RECTOSIGMOID JUNCTION</b> |  |   | <b>1</b>  | <b>0</b> | <b>1</b>  |
|                              | Adenocarcinoma                               | Rt Breast - Ductal carcinoma in situ        | 1         | 0        | 1         |
| <b>RECTUM</b>                |  |   | <b>2</b>  | <b>0</b> | <b>2</b>  |
|                              | Adenocarcinoma                               | Corpus Uteri - Adenocarcinoma               | 1         | 0        | 1         |
|                              | Adenocarcinoma                               | Lt Breast - Invasive ductal carcinoma       | 1         | 0        | 1         |
| <b>SMALL INTESTINE</b>       |  |   | <b>3</b>  | <b>2</b> | <b>1</b>  |
|                              | Carcinoid tumor                              | Tongue - Mucoepidermoid carcinoma           | 1         | 1        | 0         |
|                              | Carcinoid tumor                              | Pancreas - Carcinoid tumor                  | 1         | 0        | 1         |
|                              | Carcinoid tumor                              | Bone Marrow - Multiple Myeloma              | 1         | 1        | 0         |
| <b>GI TRACT</b>              |  |   | <b>1</b>  | <b>1</b> | <b>0</b>  |
|                              | Adenocarcinoma                               | Bone - Ewing sarcoma                        | 1         | 1        | 0         |
| <b>STOMACH</b>               |  |   | <b>1</b>  | <b>0</b> | <b>1</b>  |
|                              | Adenocarcinoma                               | Gastric Antrum - Adenocarcinoma             | 1         | 0        | 1         |
| <b>GALLBLADDER</b>           |  |   | <b>1</b>  | <b>0</b> | <b>1</b>  |
|                              | Adenocarcinoma                               | Skin - Basal cell carcinoma                 | 1         | 0        | 1         |
| <b>PROSTATE</b>              |  |   | <b>1</b>  | <b>1</b> | <b>0</b>  |
|                              | Adenocarcinoma                               | Rt Lung - Adenocarcinoma                    | 1         | 1        | 0         |
| <b>TESTIS</b>                |  |   | <b>2</b>  | <b>2</b> | <b>0</b>  |
|                              | Seminoma                                     | Rt Testis - Seminoma                        | 2         | 2        | 0         |

## Classification: Public - عام

| PRIMARY SITE<br>2024 | HISTOLOGY<br>(NOS - Not Otherwise Specified) | OTHER PRIMARIES<br>(PREVIOUS OR CONCURRENT) | ALL CASES |    |    |
|----------------------|--|---|-----------|----|----|
|                      |  |   | 100       | 26 | 74 |
| <b>NASOPHARYNX</b>   |  |   | 1         | 1  | 0  |
|                      | Nasopharynx - Nonkeratinizing Ca             | Thyroid - Papillary adenocarcinoma          | 1         | 1  | 0  |
| <b>HYPOPHARYNX</b>   |  |   | 1         | 1  | 0  |
|                      | Squamous cell carcinoma                      | Appendix - Low grade mucinous neoplasms     | 1         | 1  | 0  |
| <b>LARYNX</b>        |  |   | 1         | 1  | 0  |
|                      | Squamous cell carcinoma spindle cell         | Prostate Gland - Adenocarcinoma             | 1         | 1  | 0  |
| <b>MOUTH</b>         |  |   | 2         | 2  | 0  |
|                      | Basal cell carcinoma                         | Stomach - Carcinoid tumor                   | 1         | 1  | 0  |
|                      | Squamous cell carcinoma                      | Colon - Carcinoma in situ                   | 1         | 1  | 0  |
| <b>THYROID</b>       |  |   | 6         | 3  | 3  |
|                      | Papillary adenocarcinoma                     | Thyroid - Medullary carcinoma               | 2         | 1  | 1  |
|                      | Papillary adenocarcinoma                     | Bilateral Lung - Adenocarcinoma             | 1         | 0  | 1  |
|                      | Papillary adenocarcinoma                     | Rectum - Adenocarcinoma                     | 1         | 0  | 1  |
|                      | Papillary adenocarcinoma                     | Nasopharynx - Nonkeratinizing Ca            | 1         | 1  | 0  |
|                      | Papillary adenocarcinoma                     | Pancreas - Carcinoid tumor                  | 1         | 1  | 0  |
| <b>BONE MARROW</b>   |  |   | 3         | 2  | 1  |
|                      | Multiple Myeloma                             | Thyroid - Papillary adenocarcinoma          | 1         | 0  | 1  |
|                      | Multiple Myeloma                             | Prostate Gland - Adenocarcinoma             | 1         | 1  | 0  |
|                      | Leukemia                                     | Lymph Node - Mature T-cell lymphoma         | 1         | 1  | 0  |
| <b>LYMPH NODES</b>   |  |   | 3         | 1  | 2  |
|                      | Marginal zone B-cell lymphoma                | Thyroid - Papillary adenocarcinoma          | 1         | 0  | 1  |
|                      | Diffuse large B-cell Lymphoma                | Rt Kidney - Renal cell carcinoma            | 1         | 0  | 1  |
|                      | Non hodgkin lymphoma                         | Bone Marrow - Hairy cell leukemia           | 1         | 1  | 0  |
|                      |  | Skin - Kaposi sarcoma                       |           |    |    |
| <b>KIDNEY</b>        |  |   | 2         | 2  | 0  |
|                      | Renal cell carcinoma                         | Rt Lung - Mucinous adenocarcinoma           | 1         | 1  | 0  |
|                      | Clear cell adenocarcinoma                    | Bone Marrow - chronic myeloid leukemia      | 1         | 1  | 0  |
| <b>LIVER</b>         |  |   | 1         | 1  | 0  |
|                      | Hepatocellular carcinoma                     | Prostate Gland - Adenocarcinoma             | 1         | 1  | 0  |
| <b>CERVIX UTERI</b>  |  |   | 2         | 0  | 2  |
|                      | Squamous cell carcinoma                      | Brain - Meningioma                          | 1         | 0  | 1  |
|                      | Endometrioid adenocarcinoma                  | Rt Breast - Invasive ductal carcinoma       | 1         | 0  | 1  |
| <b>CORPUS UTERI</b>  |  |   | 3         | 0  | 3  |
|                      | Endometrioid adenocarcinoma                  | Bone Marrow - Multiple Myeloma              | 1         | 0  | 1  |
|                      | Endometrioid adenocarcinoma                  | Lt Breast - Lobular carcinoma in situ       | 1         | 0  | 1  |
|                      | Serous cystadenocarcinoma                    | Lt Breast - Invasive ductal carcinoma       | 1         | 0  | 1  |
| <b>BLADDER</b>       |  |   | 2         | 2  | 0  |
|                      | Papillary transitional cell ca. non-inv.     | Lt Kidney - Renal cell carcinoma            | 1         | 1  | 0  |
|                      | Transitional cell carcinoma                  | Prostate Gland - Adenocarcinoma             | 1         | 1  | 0  |
| <b>OVARY</b>         |  |   | 3         | 0  | 3  |
|                      | Serous cystadenocarcinoma                    | Lt Ovary- Serous cystadenocarcinoma         | 2         | 0  | 2  |
|                      | Serous cystadenocarcinoma                    | Rt Breast - Invasive ductal carcinoma       | 1         | 0  | 1  |
| <b>BRAIN,CNS</b>     |  |   | 2         | 1  | 1  |
|                      | Oligodendrogloma                             | Brain - Meningioma                          | 1         | 1  | 0  |
|                      | Glioblastoma                                 | Thyroid - Anaplastic thyroid carcinoma      | 1         | 0  | 1  |
| <b>THYMUS</b>        |  |   | 1         | 1  | 0  |
|                      | Thymoma type B2 malignant                    | Prostate Gland - Adenocarcinoma             | 1         | 1  | 0  |

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## **V. STAGE OF DISEASE AT DIAGNOSIS**

Stage in any malignant process may be defined as the particular step, phase, or extent in a tumor's development, which is one of the predictors for outcome and treatment selection assigned at the time of initial diagnosis. The microscopic appearance, extent, and biological behavior of a tumor, as well as host factors, play a part in prognosis and are therefore important in staging.

The SEER (Surveillance, Epidemiology and End Results) Summary Staging Guide was utilized for all stageable cases. This system summarizes the disease categories into four general staging groups (i.e., in situ, localized, regional, and distant). Stage categories are based on a combination of clinical observations and operative-pathological evaluation.

Summary Staging Definitions:

**IN SITU:** Intraepithelial, noninvasive, noninfiltrating

**LOCALIZED:** Within organ

- a. Invasive cancer confined to the organ of origin
- b. Intraluminal extension where specified

**REGIONAL:** Beyond the organ of origin

- a. By direct extension to adjacent organs/tissues
- b. To regional lymph nodes
- c. Both (a) and (b)

**DISTANT:** Direct extension or metastasis

- a. Direct continuity to organs other than above
- b. Discontinuous metastasis
- c. To distant lymph nodes

In addition to the SEER Summary Staging, the cases were also staged according to the American Joint Committee on Cancer (AJCC) TNM system. This scheme is based on the premise that cancers of similar histology or site of origin share similar patterns of growth and extension. This system is based on the assessment of three components:

**T:** Extent of the primary tumor

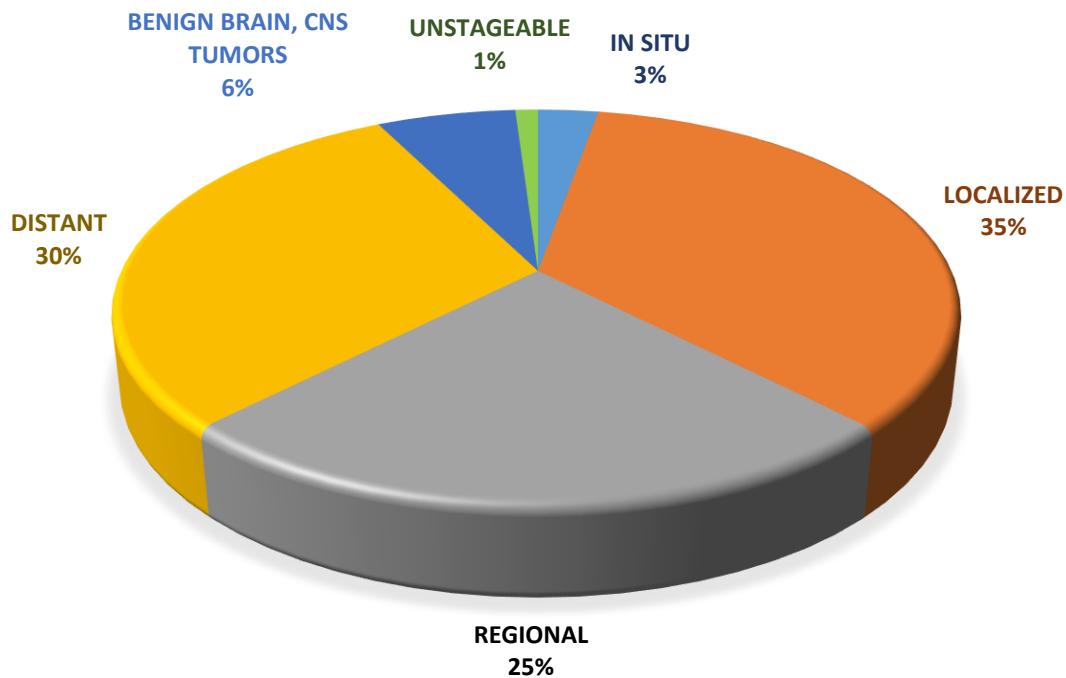
**N:** Absence or presence and extent of regional lymph node involvement

**M:** Absence or presence of distant metastasis

Cases of Major sites of 2024, i.e., Breast, Brain& CNS, Colon and Rectum are presented in Table 10 with their clinical group stages and yearly comparative figures from 2020 to 2024.

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**FIGURE 15**  
**DISTRIBUTION OF CASES BY (SEER) STAGE AT DIAGNOSIS**  
**2024 (TOTAL CASES = 5,129)**



**TABLE 10**  
**AJCC TNM GROUP STAGE OF ANALYTIC CASES OF MAJOR SITES**  
\*BY YEAR  
(2020-2024)

| <b>BREAST</b>  |             |             |             |             |             |              |
|----------------|-------------|-------------|-------------|-------------|-------------|--------------|
| <b>STAGE</b>   | <b>2020</b> | <b>2021</b> | <b>2022</b> | <b>2023</b> | <b>2024</b> | <b>TOTAL</b> |
| <b>0</b>       | 33          | 26          | 57          | 54          | 75          | 245          |
| <b>1</b>       | 125         | 196         | 234         | 207         | 261         | 1023         |
| <b>2</b>       | 121         | 162         | 185         | 195         | 164         | 827          |
| <b>3</b>       | 124         | 200         | 200         | 186         | 169         | 879          |
| <b>4</b>       | 86          | 127         | 147         | 147         | 162         | 669          |
| <b>UNKNOWN</b> | 16          | 16          | 32          | 48          | 13          | 125          |
| <b>TOTAL</b>   | 505         | 727         | 855         | 837         | 844         | 3768         |

| <b>COLON &amp; RECTUM</b> |             |             |             |             |             |              |
|---------------------------|-------------|-------------|-------------|-------------|-------------|--------------|
| <b>STAGE</b>              | <b>2020</b> | <b>2021</b> | <b>2022</b> | <b>2023</b> | <b>2024</b> | <b>TOTAL</b> |
| <b>0</b>                  | 2           | 2           | 3           | 2           | 2           | 11           |
| <b>1</b>                  | 13          | 24          | 25          | 30          | 48          | 140          |
| <b>2</b>                  | 32          | 61          | 43          | 70          | 68          | 274          |
| <b>3</b>                  | 72          | 128         | 150         | 134         | 172         | 656          |
| <b>4</b>                  | 101         | 144         | 162         | 152         | 133         | 692          |
| <b>UNKNOWN</b>            | 4           | 10          | 15          | 9           | 12          | 50           |
| <b>Total</b>              | 224         | 369         | 398         | 397         | 435         | 1823         |

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| UTERUS       |            |            |            |            |            |             |
|--------------|------------|------------|------------|------------|------------|-------------|
| STAGE        | 2020       | 2021       | 2022       | 2023       | 2024       | TOTAL       |
| 0            | 11         | 12         | 4          | 13         | 9          | 49          |
| 1            | 93         | 93         | 123        | 104        | 154        | 567         |
| 2            | 19         | 21         | 15         | 27         | 29         | 111         |
| 3            | 18         | 31         | 29         | 44         | 56         | 178         |
| 4            | 44         | 40         | 59         | 68         | 82         | 293         |
| UNK          | 6          | 6          | 9          | 3          | 13         | 37          |
| <b>TOTAL</b> | <b>191</b> | <b>203</b> | <b>239</b> | <b>259</b> | <b>343</b> | <b>1235</b> |

| THYROID      |            |            |            |            |            |             |
|--------------|------------|------------|------------|------------|------------|-------------|
| STAGE        | 2020       | 2021       | 2022       | 2023       | 2024       | TOTAL       |
| 0            | 8          | 4          | 2          | 2          | 0          | 16          |
| 1            | 186        | 262        | 303        | 299        | 254        | 1304        |
| 2            | 11         | 32         | 25         | 57         | 32         | 157         |
| 3            | 0          | 4          | 5          | 9          | 2          | 20          |
| 4            | 10         | 17         | 22         | 11         | 18         | 78          |
| UNK          | 5          | 5          | 5          | 10         | 6          | 31          |
| <b>TOTAL</b> | <b>220</b> | <b>324</b> | <b>362</b> | <b>388</b> | <b>312</b> | <b>1606</b> |

| KIDNEY & RENAL PELVIS |           |            |            |            |            |            |
|-----------------------|-----------|------------|------------|------------|------------|------------|
| STAGE                 | 2020      | 2021       | 2022       | 2023       | 2024       | TOTAL      |
| 0                     | 0         | 0          | 0          | 0          | 1          | 1          |
| 1                     | 20        | 47         | 57         | 59         | 78         | 261        |
| 2                     | 8         | 9          | 5          | 14         | 13         | 49         |
| 3                     | 23        | 32         | 29         | 42         | 44         | 170        |
| 4                     | 15        | 31         | 24         | 22         | 31         | 123        |
| UNK                   | 8         | 6          | 12         | 4          | 6          | 36         |
| <b>TOTAL</b>          | <b>74</b> | <b>125</b> | <b>127</b> | <b>141</b> | <b>173</b> | <b>640</b> |

- Brain, CNS: include benign tumors 2<sup>nd</sup> top cancer site at KFSH&RC, but not staged according to TNM staging.
- LEUKEMIA: 6<sup>th</sup> top cancer site at KFSH&RC, but not staged according to TNM staging.
- NON-HODGKIN LYMPHOMA (NHL): 7<sup>th</sup> top cancer site at KFSH&RC, but not staged according to TNM staging.

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**TABLE 11**  
**ADDITIONAL CASES ADDED FOR (2020 – 2023)\***

| NEW CASES ADDED | YEAR 1ST SEEN |      |      |      |       |
|-----------------|---------------|------|------|------|-------|
|                 | 2020          | 2021 | 2022 | 2023 | Total |
|                 | 53            | 80   | 162  | 142  | 437   |

**\* NOTE:**

- The number of cases depends on The Year first seen at KFSH&RC.
- These cases were missed (not included) in the previous TR Annual Report 2023

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## VI. CANCER SURVIVAL AT KFSH&RC, RIYADH

Five-year observed survival for selected cancer sites at KFSH&RC, Riyadh, among patients diagnosed in 2019 and followed for five years through 2024.

The observed survival rates represent the percentage of people alive 5 years after diagnosis, regardless of the cause of death, according to the stage at presentation.

The statistics presented in this Survival report focus on analytic cases, as defined by the Commission on Cancer (CoC) and The Surveillance, Epidemiology, and End Results (SEER) Program. A case is classified as analytic if the reporting facility provided the initial diagnosis and/or administered all or part of the patient's first course of treatment.

The analytic cases reflect the primary responsibility of our clinical teams in managing new cancer diagnoses. By focusing on this specific cohort, we can accurately assess treatment outcomes, long-term survival rates, and the effectiveness of our multidisciplinary care in alignment with national benchmarks provided by the [SEER Program](#).

Cases with multiple primaries and In-situ were excluded.

**Reference:** Book 7: *Statistics and Epidemiology for Cancer Registries* published by the National Cancer Institute (NCI).

**TABLE 12**  
**5-YEAR OBSERVED SURVIVAL RATES\*\* (%)**  
**BY STAGE AT DIAGNOSIS, KFSH&RC**  
**Cases Diagnosed in 2019**

| Site                 | 2024 at KFSH<br>(Hospital Level) |          |         |
|----------------------|----------------------------------|----------|---------|
|                      | Localized                        | Regional | Distant |
| Breast Cancer        | 94%                              | 83%      | 41%     |
| Colorectal Cancer    | 91%                              | 70%      | 24%     |
| Hodgkin Lymphoma     | 100%                             | 95%      | 89%     |
| Non-Hodgkin Lymphoma | 90%                              | 82%      | 56%     |
| Nasopharynx          | 100%                             | 43%      | 25%     |
| Thyroid              | 100%                             | 100%     | 44%     |
| Liver, HCC           | 50%                              | 33%      | 13%     |

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|                                      |      |     |      |
|--------------------------------------|------|-----|------|
| <b>Lung</b>                          |      |     |      |
| • Non-Small Cell Lung Cancer (NSCLC) | 53%  | 39% | 13%  |
| • Small Cell Lung Cancer (SCLC)      | 100% | NA  | 0%   |
| <b>Prostate</b>                      | 100% | 79% | 29%  |
| <b>Pancreas</b>                      | 33%  | 22% | 2.7% |
| <b>Bladder</b>                       | 63%  | 36% | 20%  |
| <b>Kidney</b>                        | 92%  | 75% | 32%  |

**LEUKEMIA\*\*\***  
**5-YEAR OBSERVED SURVIVAL RATES\*\* (%)**

| Site | 2024 at KFSH (Hospital Level) |
|------|-------------------------------|
| AML  | 71%                           |
| CML  | 85%                           |

\*Observed survival does not take into account death from other causes, the likelihood of which varies by cancer type due to differences in age distribution, and should be interpreted with caution.

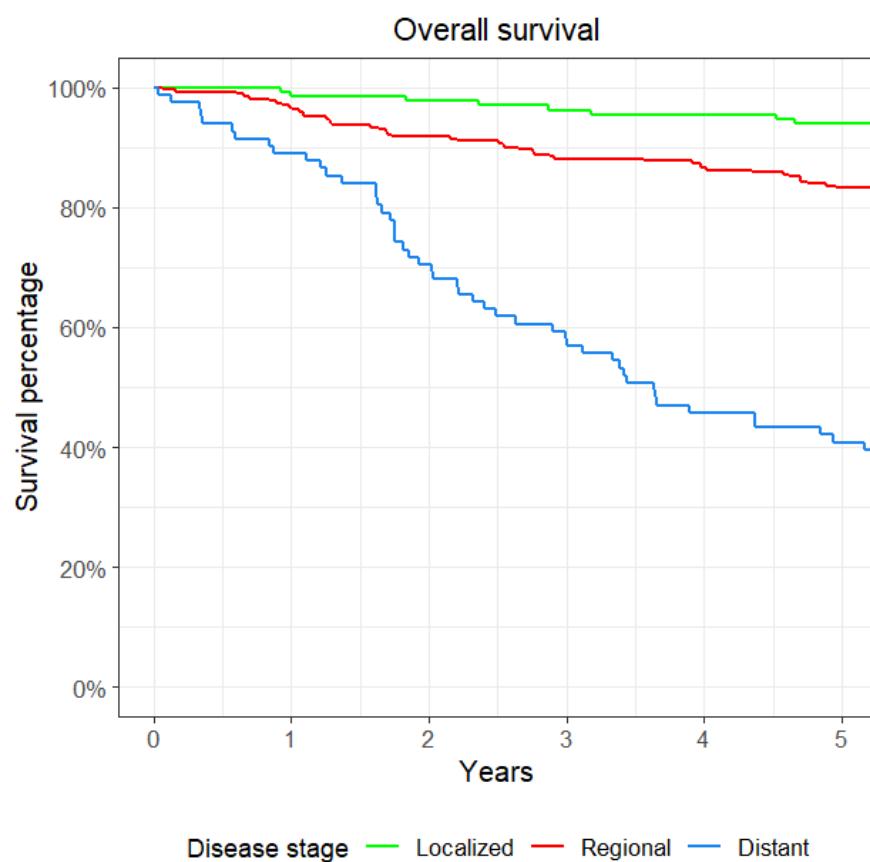
\*\*Observed survival shown is for cases diagnosed in 2019 and followed through 2024.

\*\*\*Leukemia: Hematologic malignancies staged differently than Solid Tumors, reported survival for Some sub-types not all types seen at KFSH.

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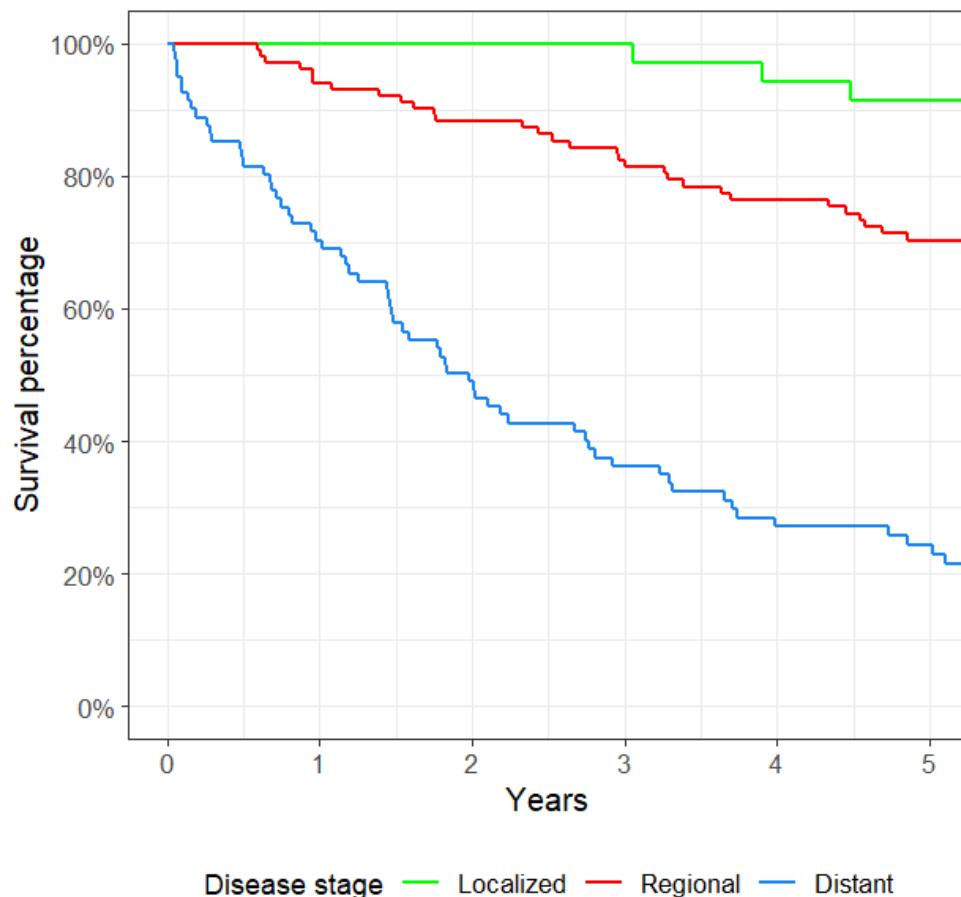
**FIGURE 16**  
**5-YEAR OBSERVED SURVIVAL RATES (%)**  
BY STAGE AT DIAGNOSIS, KFSH&RC  
2024

*Breast*



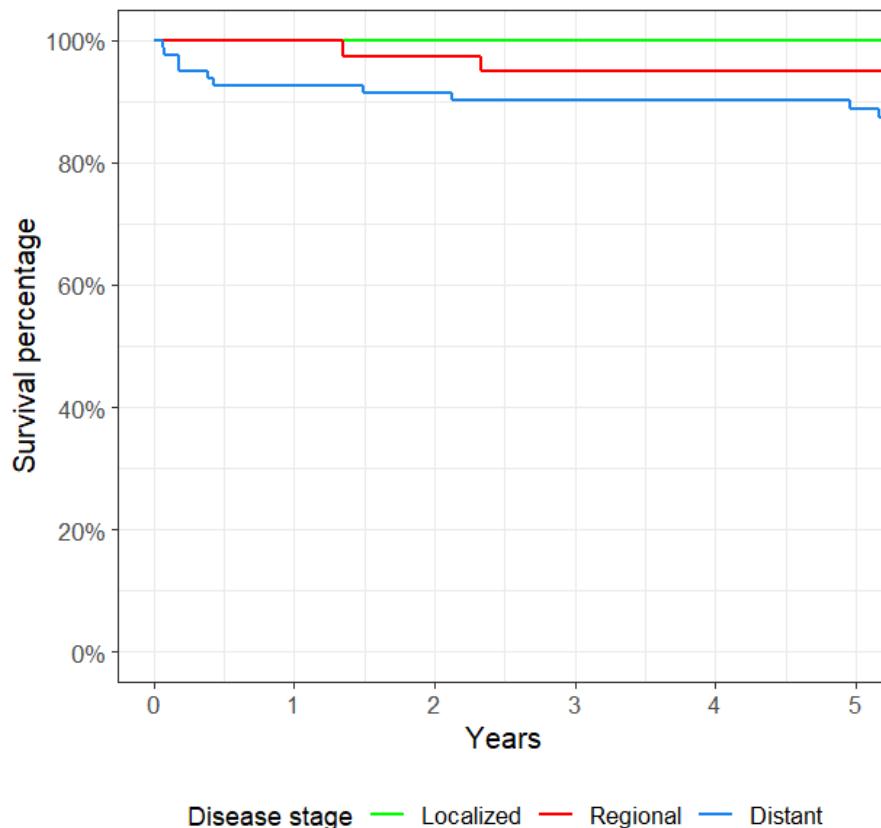
*Colorectal*

## Overall survival



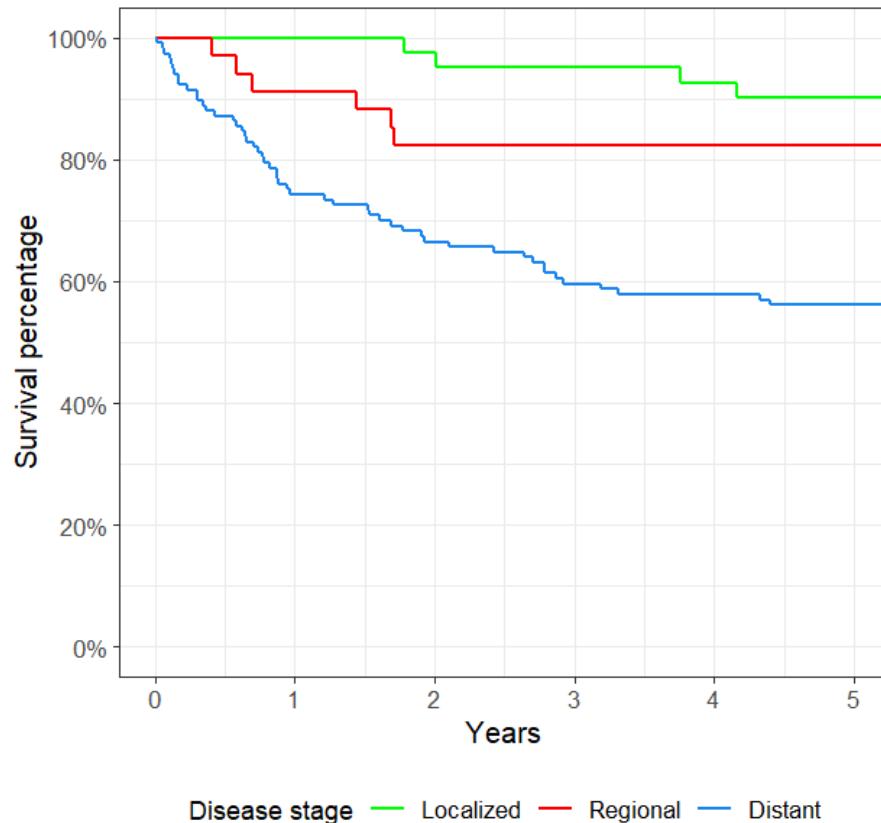
## Hodgkin Lymphoma

### Overall survival



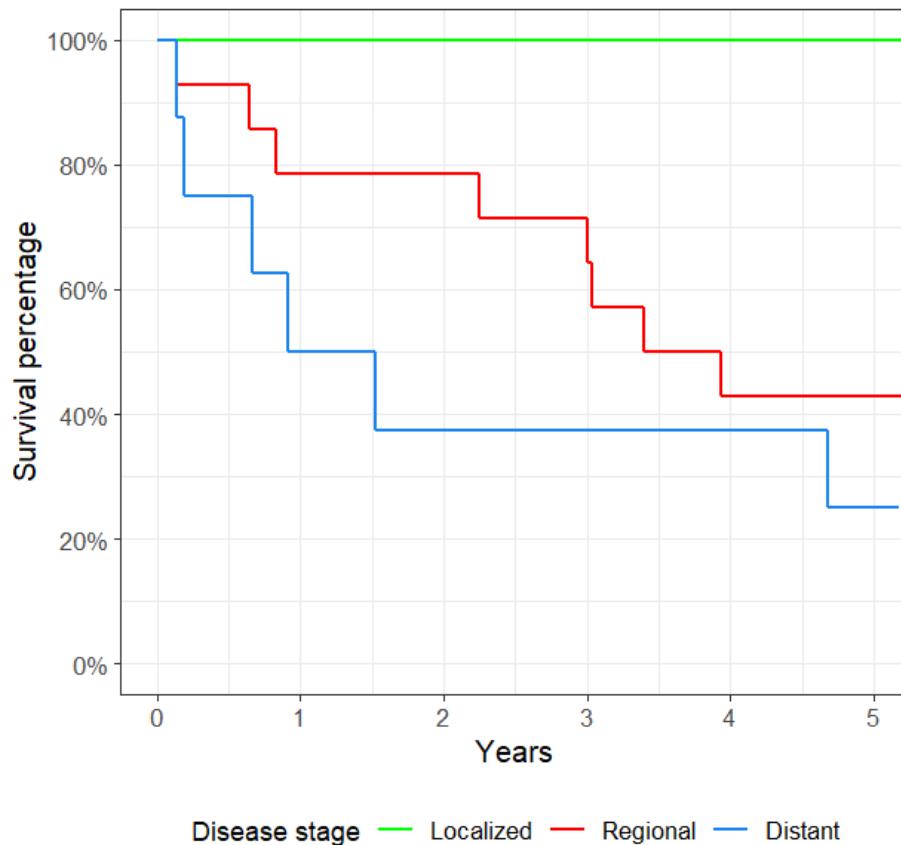
## Non-Hodgkin Lymphoma

Overall survival



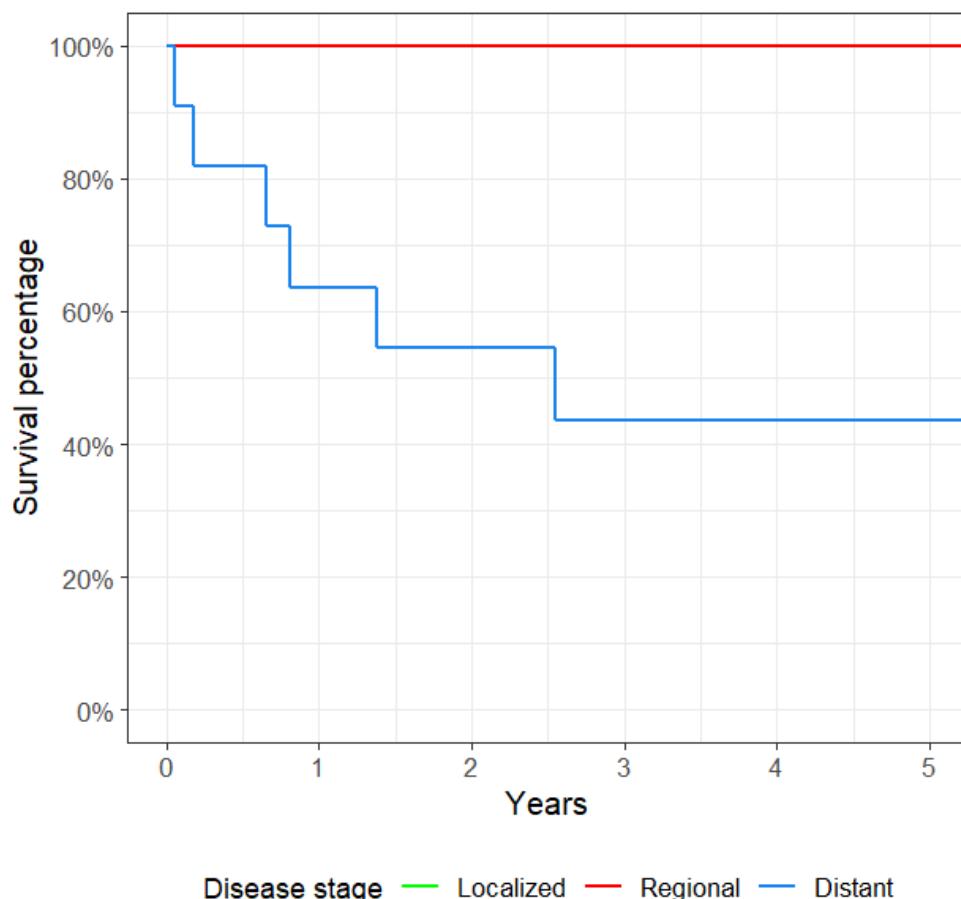
## Nasopharynx Cancer

Overall survival

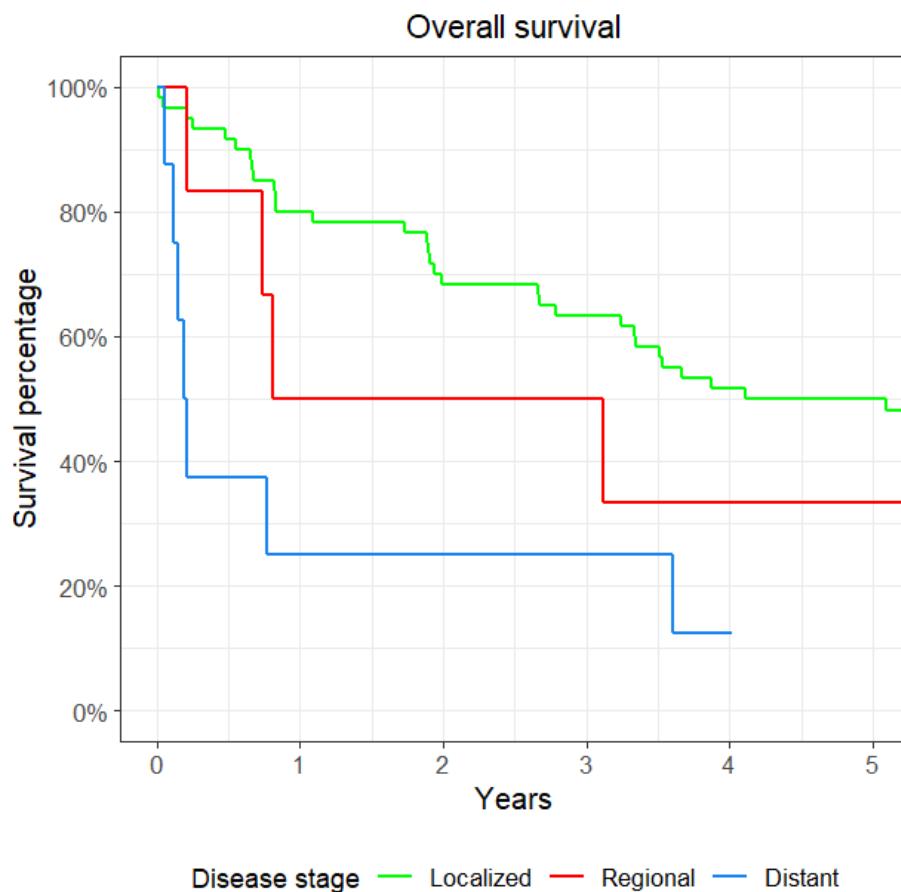


## Thyroid Cancer

### Overall survival



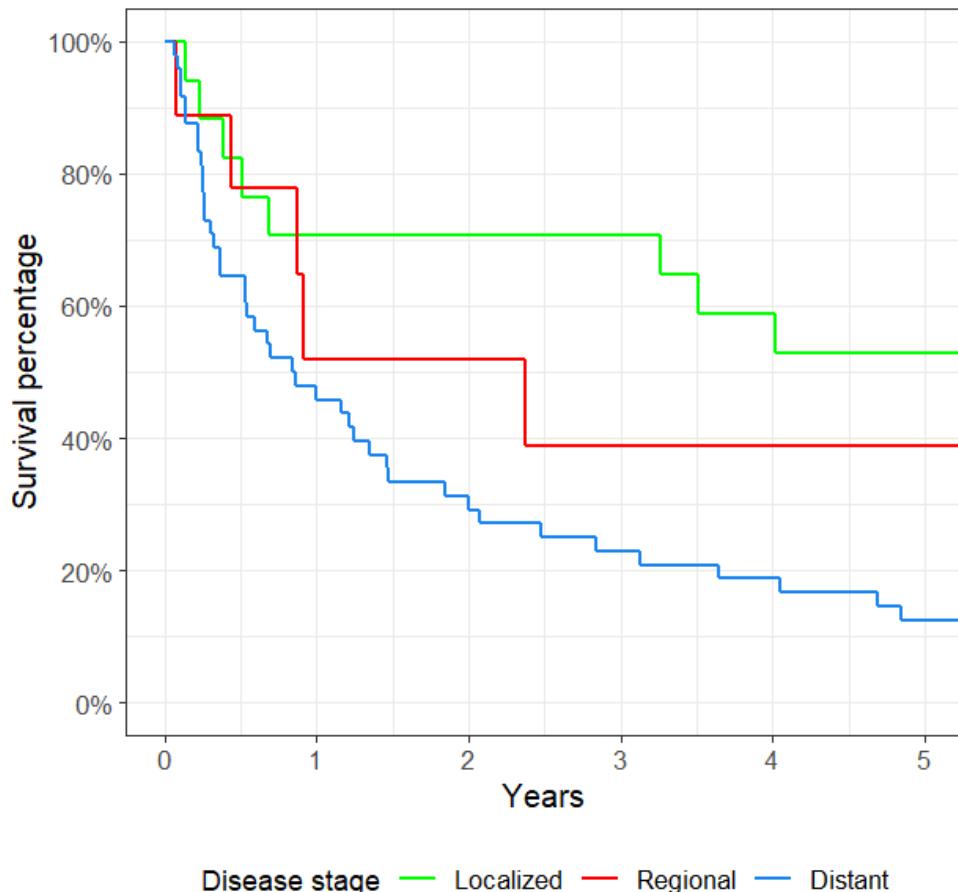
*Liver, HCC*  
*(Hepatic Cellular Carcinoma)*



## Lung Cancer

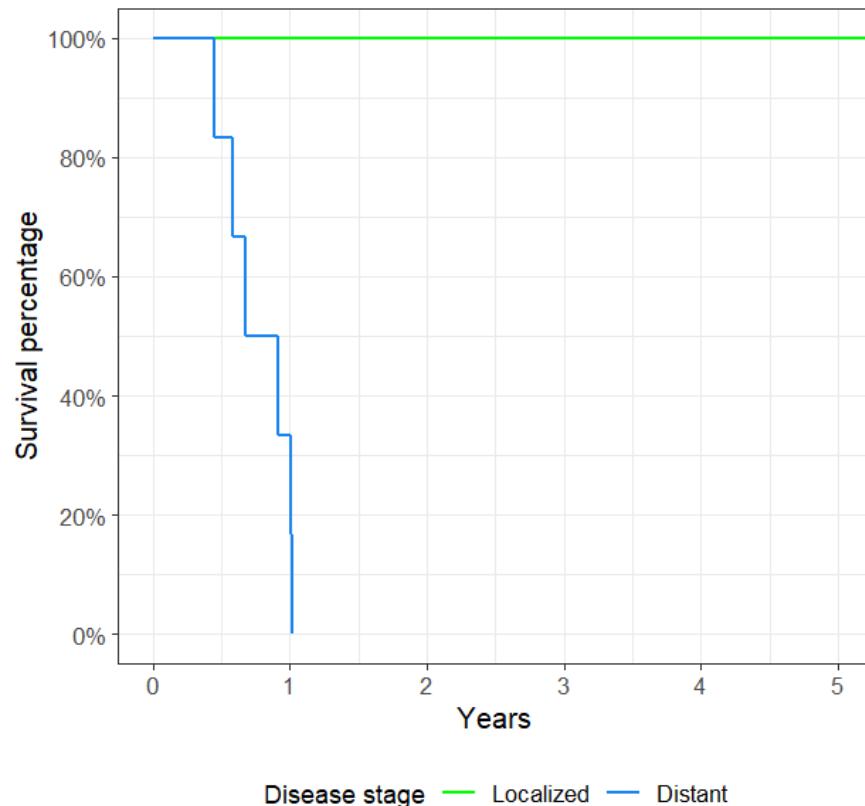
### Non-Small Cell Lung Cancer (NSCLC)

Overall survival



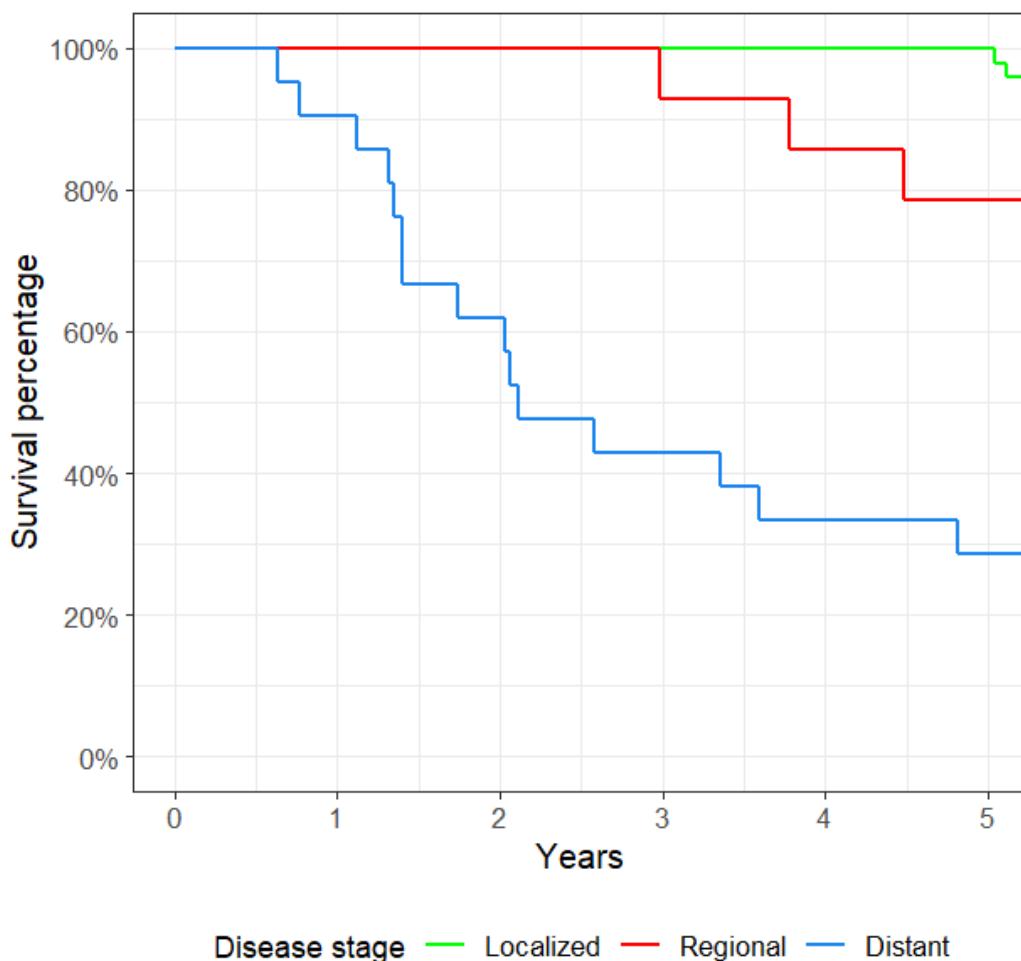
## Small Cell Lung Cancer (SCLC)

Overall survival



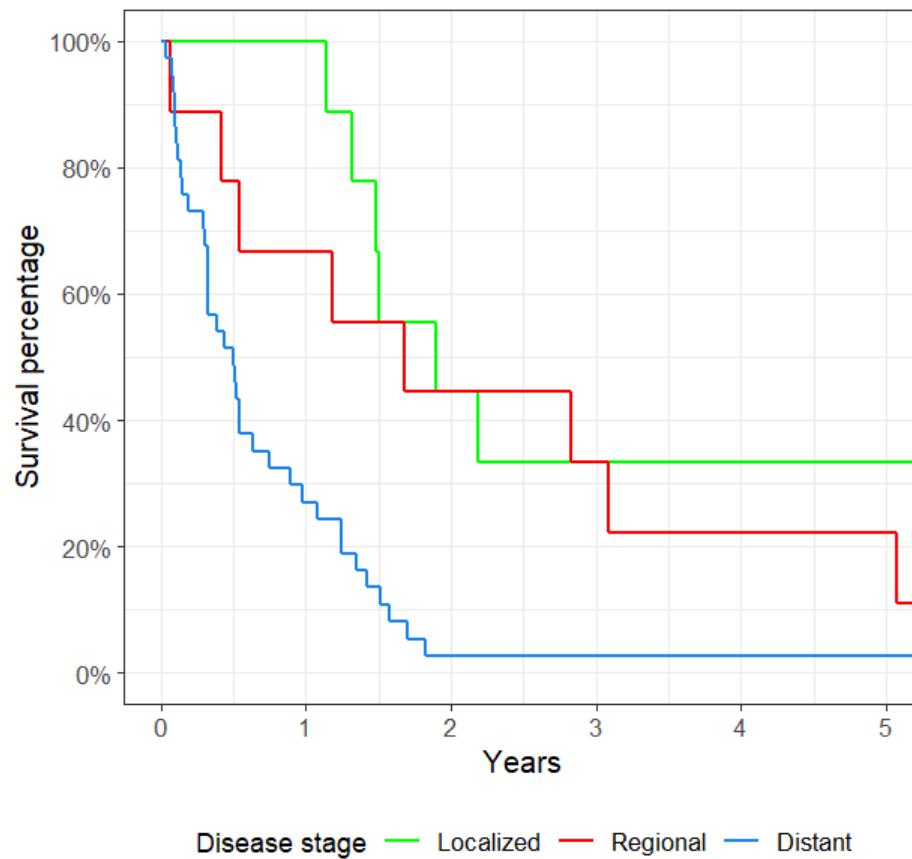
## Prostate Cancer

### Overall survival



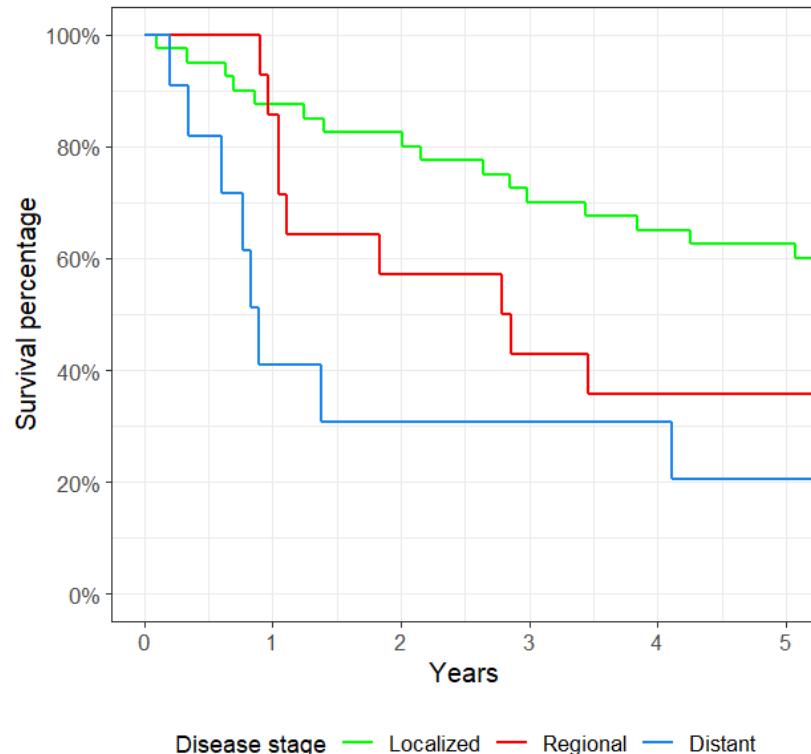
## Pancreatic Cancer

### Overall survival

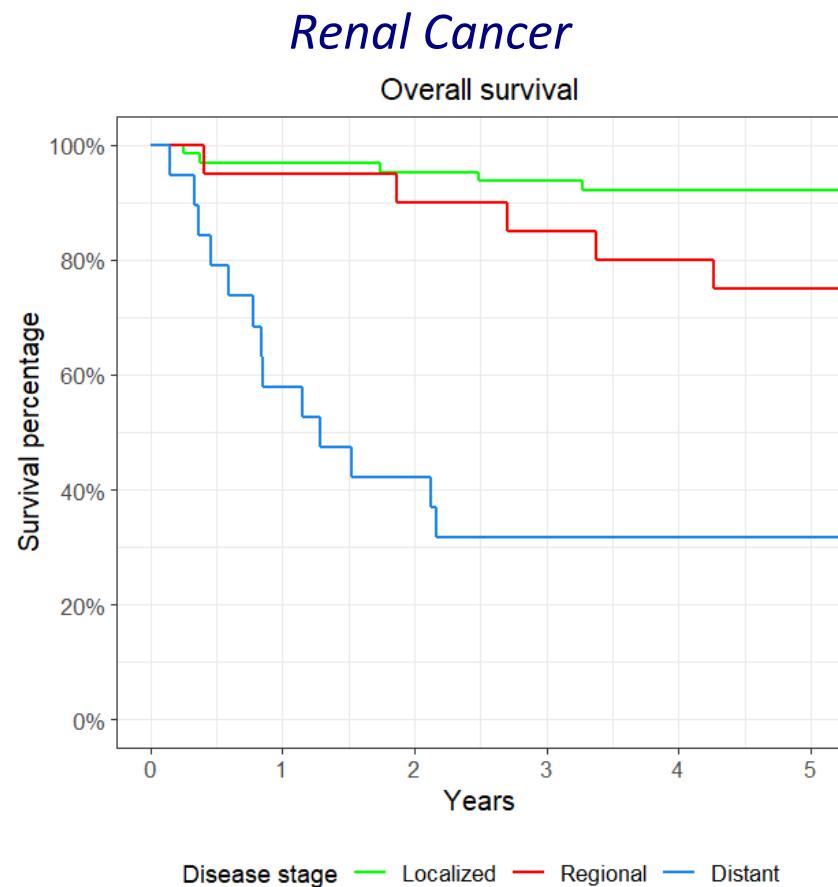


## Bladder Cancer

Overall survival



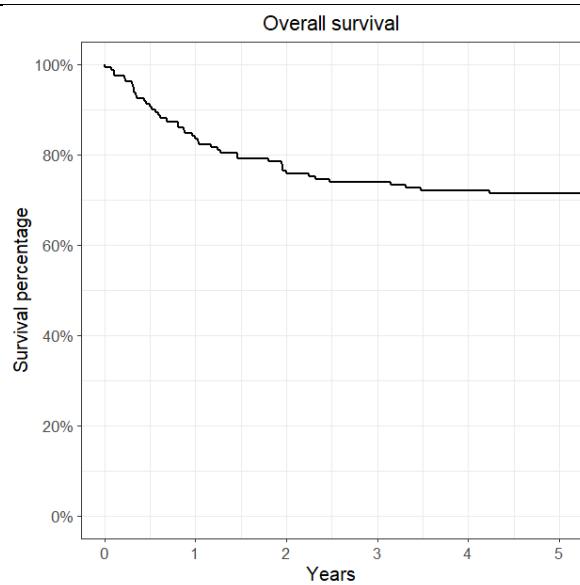
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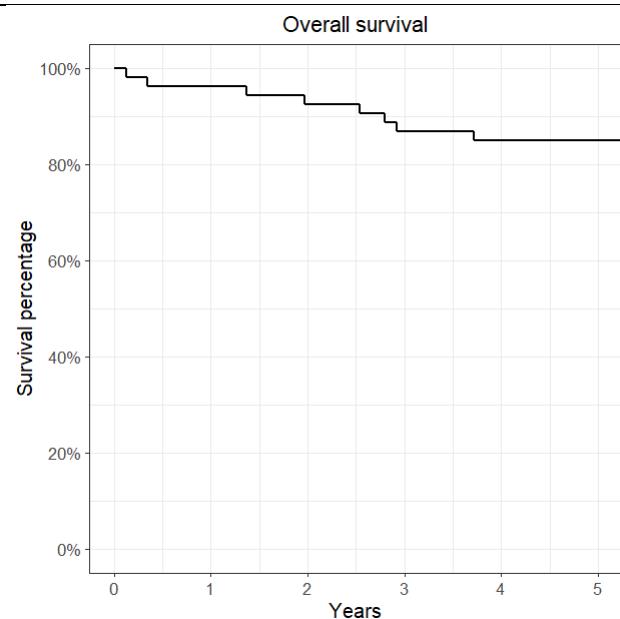
Classification: Public - عام

## LEUKEMIA

**AML**  
71%



**CML**  
85%



**VII. APPENDIX****REQUESTS FOR TUMOR REGISTRY DATA  
2024****Feb**

- Hepatocellular carcinoma (HCC) 2014-2024. Saleh Alqahtani, MD
- Bone Marrow Transplant patients after 2000. Ayman Saad, MD
- Metastatic Osteosarcoma 2018-2023. Jean Paul Atallah, MD
- Kaposi Sarcoma cases 2000-2022. Nasser Alrajhi, MD
- Multiple Myeloma, aged 45 and younger. Waleed Rasheed, MD
- Acute Myeloid Leukemia cases 2015-2023 FLT3 mutated with Sorafenib. Ayman Saad, MD

**March**

- Rhabdomyosarcoma and Ewing Sarcoma 2000-2023. Abdulaziz Alghamdi, MD
- Lung Cancer cases 1988-2002
- Acute Lymphoblastic Leukemia (HCT) Therapy. Ayman Saad, MD

**May**

- Colorectal Cancer Cases 2017-2023. Saleh Alqahtani, MD

**July**

- Cervical and Esophageal Cancer Cases 2012-2022. Nasser Alrajhi, MD
- Esophageal Cancer cases 2002-2011. Ahmed Alsomali, MD

**August**

- Breast Cancer cases Stage IV and HER2 -ve 2018-2022. Mashari Alzahrani, MD

**September**

- Thyroid Cancer cases 2002-2023. Ali Alzahrani, MD
- Bladder, Ureter, and Renal Pelvis Cancer cases with muscle invasion or Mets 2022. S.Bazarbashi, MD
- All data of Follicular Lymphoma cases. Abdullah Alamer, MD
- Breast Cancer cases 2015-2019. Nasser Elkum, MD
- T-Cell Lymphoma cases 2008-2023. Alfadel Alshaibani, MD

**October**

- Nasopharyngeal Carcinoma cases 2000-2022. Almahmoud, MD
- Breast Cancer cases 2019-2023. Monther, MD
- All ENT Cancer cases 1975-2022.

**December**

- Salivary Gland Cancer Cases Number 2013-2023.

## VIII. REFERENCES

- American Joint Committee on Cancer (AJCC) TNM 8<sup>TH</sup> EDITION ([www.cancerstaging.org](http://www.cancerstaging.org))
- ICD-O: International Classification of Diseases for Oncology. Used to code the histology, behavior, and grade of a tumor. Registries are currently using the third edition of the ICD-O, ICD-O-3.1 VERSION ([www.naaccr.org](http://www.naaccr.org))
- Summary stage 2018 SEER ([www.seer.cancer.gov](http://www.seer.cancer.gov))
- Grade Coding Instructions and Tables ([naaccr.org](http://www.naaccr.org))
- Site-Specific Data Items ([naaccr.org](http://www.naaccr.org))
- SEER Program Coding and Staging Manual
- Class Of Case ([www.seer.cancer.gov/seertools/glossary](http://www.seer.cancer.gov/seertools/glossary))
- Multiple Primary and Histology Coding Rules Manual
- Standards for Oncology Registry Entry (STORE) Manual, Solid Tumor Rules
- American Cancer Society (<https://www.cancer.org/research/cancer-facts-statistics/all-cancer-facts-figures/cancer-facts-figures-2021.html>)
- **Book 7: Statistics and Epidemiology for Cancer Registries** (NIH Publication No. 94-3766). U.S. Department of Health and Human Services, Public Health Service, National Institutes of Health.

## IX. GLOSSARY OF TERMS

**Accessioned:** Cases are entered into the Tumor Registry by the year in which they were first seen at KFSH&RC for each primary cancer.

**Age of Patient:** Recorded in completed years at the time of diagnosis, and age group used as per the international standard.

**Analytic Cases:** Cases that were first diagnosed and/or received all or part of their first course of treatment at KFSH&RC.

**Non-Analytic Cases:** Cases diagnosed elsewhere and received their entire first course of treatment elsewhere.

**Case:** A diagnosis or finished abstract. A patient who has more than one primary is reported as multiple cases.

**Crude Relative Frequency:** The proportion of a given cancer in relation to all cases in a clinical or pathological series.

**First Course of Treatment:** The initial tumor-directed treatment or series of treatments, usually initiated within four months after diagnosis.

**Stage of Disease:** The extent of the disease process is determined at the first course of treatment.

**SEER (Surveillance, Epidemiology and End Results) Summary Staging:**

**In Situ:** Tumor meets all microscopic criteria for malignancy except invasion.

**Local:** Tumor is confined to the organ of origin.

**Regional:** Tumor has spread by direct extension to immediately adjacent organs and/or lymph nodes and appears to have spread no further.

**Distant:** Tumor has spread beyond immediately adjacent organs or tissues by direct extension and/or has either developed secondary or metastatic tumors, metastasized to distant lymph nodes, or has been determined to be systemic in origin.

**AJCC (American Joint Committee on Cancer) TNM Staging:** A classification scheme based on the premise that cancers of similar histology or site or origin share similar patterns of growth and extension.

**T+N+M = Stage**

**T:** Extent of primary tumor

**N:** Extent of regional lymph node involvement

**M:** Distant Metastasis

**Clinical Stage:** Classification based on the evidence acquired before treatment. Such evidence arises from physical examination, imaging, endoscopy, biopsy, surgical exploration and other relevant findings.

**Pathologic Stage:** Classification based on the evidence acquired before treatment, supplemented or modified by the additional evidence acquired from surgery and from pathologic examination of the resected specimen.