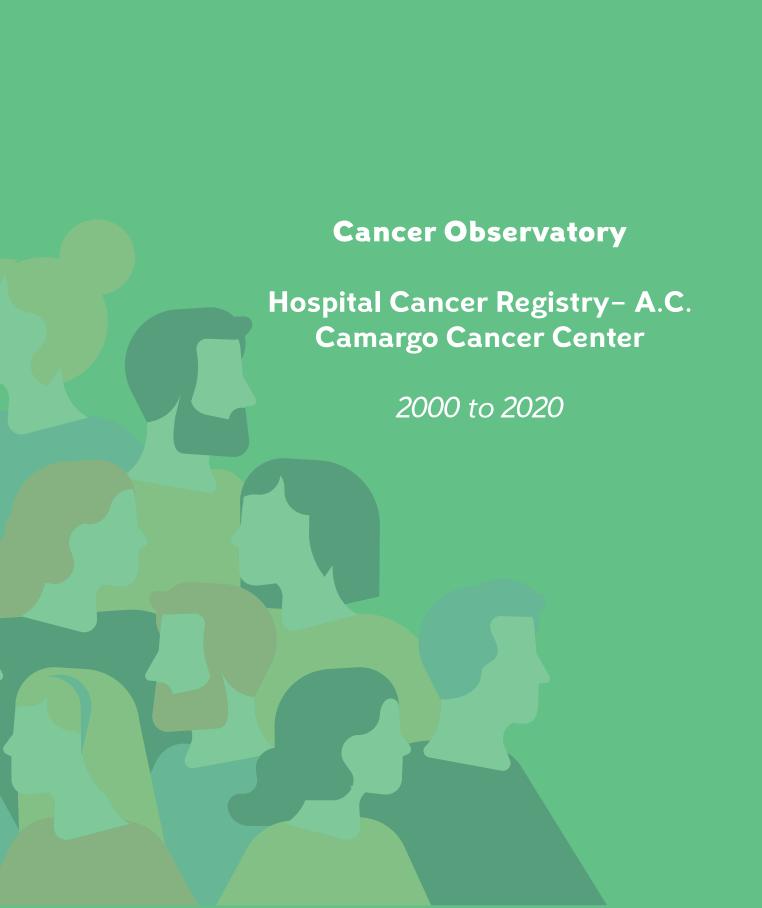


CANCER OBSERVATORY

A.C.CAMARGO CANCER CENTER 2000 to 2020

Diego Rodrigues Mendonça e Silva Maria Paula Curado José Humberto Tavares Guerreiro Fregnani





Catalogue Entry

Cancer Observatory: The Hospital Cancer Registry of the A.C. Camargo Cancer Center 2000 to 2020 / A.C. Camargo Cancer Center; Diego Rodrigues Mendonça e Silva, Maria Paula Curado, José Humberto Tavares Guerreiro Fregnani (Orgs.) - São Paulo: Fundação Antônio Prudente, 2023. 43 pp.

ISBN: 978-65-88820-02-5

1. Hospital registry 2. Oncology 3. Survival 4. HCR I. A.C. Camargo Cancer Center II. Mendonça e Silva, Diego Rodrigues III. Curado, Maria Paula IV. Fregnani, José Humberto Tavares Guerreiro

CDU 616

Responsible librarian: Cinara Oliveira Nunes CRB-8/7357



Corporate Structure Board of Directors

Board Member, Executive President José Ermírio de Moraes Neto

Board Member, Executive Vice-president Waldomiro Carvas Junior

Board Member, Institutional President José Hermílio Curado

> Board Member, Institutional Vice-president Ademar Lopes

Board Member Celso Marques de Oliveira

Board Member José Ricardo Mendes da Silva

Board Member Liana Maria Carraro de Moraes

> **Board Member** Nelson Koichi Shimada

Board Member Pedro Luiz Barreiro Passos



Executive Management

Director General Victor Piana de Andrade

Corporate Director Maron Guimarães

Director of Commerce and Relations
Wilson Leite Pedreira Jr.

Chief Medical Officer
Antonio Eduardo Antonietto Junior

Director of OperationsRaquel Marcondes Bussolotti

Director of Legal, Governance and Institutional Relations Luciana Spring

Superintendent of Internal Audit Alexandre José Sales

Superintendent of Personnel and Organizational Development Anaisa Lubeck Carlini

Superintendent of Innovation and Digital Transformation Rodrigo Gosling

Superintendent of Teaching and Research

José Humberto Tavares Guerreiro Fregnani

Superintendent of Service and Revenue Cycle

Ana Lúcia da Silveira Franco

Superintendent of Supply Chain José Eduardo Faria Renó Ramos

Reference Center Leaders

Breast Tumors

Dr. Fabiana B. Alves Makdissi Dr. Solange Moraes Sanches

Gynecological Tumors

Dr. Glauco Baiocchi Neto Dr. Andréa Paiva Gadélha Guimarães

Upper Gastrointestinal Tumors

Dr. Felipe José Fernandez Coimbra Dr. Tiago Felismino

Head and Neck Tumors

Dr. Luiz Paulo Kowalski Dr. Thiago Bueno de Oliveira

Lung and Thorax Tumors

Dr. Jefferson Luiz Gross Dr. Helano Carioca Freitas

Colorectal Tumors

Dr. Samuel Aguiar Junior Dr. Rachel Riechelmann

Sarcomas and Bone Tumors

Dr. Celso Abdon Lopes de Mello Dr. Samuel Aguiar Junior Dr. Suely Akiko Nakagawa

Urological Tumors

Dr. Stênio de Cássio Zequi Dr. José Augusto Rinck Junior

Hematological Neoplasms

Dr. Jayr Schmidt Filho

Pediatric Tumors

Dr. Viviane Sonaglio

Skin Tumors

Dr. João Pedreira Duprat Neto Dr. Milton José de Barros e Silva

Central Nervous System Tumors

Dr. José Erasmo Dal'Col Lucio

INDEX

| Ackn | owledgments | 8 |
|------------------------------------|---|----------|
| Introd | duction | 9 |
| 1. 1.1. 1.2. 1.3. 1.4. | Hospital Cancer Registry What is a Hospital Cancer Registry? General objective of the HCR Specific objectives HCR working methods | 10 10 |
| 2. | HCR quality indicators | 13 |
| 3. 3.1. 3.2. | The Cancer Observatory's methods of analysis Descriptive analysisAnalysis of survival | |
| 4. 4.1. 4.2. | The Cancer Observatory's results Descriptive results Survival results | |
| 5. 6. 7. 8. | Access to the HCR database Final considerations Contacts at the HCR The HCR team | 35 36 |
| | rencesendices | |

Acknowledgments

To the Management of the A.C. Camargo Cancer Center (ACCCC; Fundação Antônio Prudente) for recognizing the relevance of the activities of the Hospital Cancer Registry (HCR) team and for providing the resources needed for the advances achieved.

To the doctors of the ACCCC's Clinical Team for their collaboration when doubts about specific cases arose and for allowing the use of the database to disseminate information about cancer within ACCCC.

To all collaborators from the ACCCC for their partnership.

To the Superintendent of Teaching and Research, Dr. José Humberto Tavares G. Fregnani, for support in disseminating and strengthening the ACCCC's HCR.

To the Research and Teaching Manager, Dr. Bernardo Rodrigues Peixoto, for his training of the HCR team and continual support of its activities.

To Dr. Maria Paula Curado, epidemiologist and expert in cancer registries, who spared no effort in strengthening, prioritizing, disseminating, and defending the importance, quality, and relevance of the HCR.

To the Medical Informatic Team, in the name of Calebe R. de Nobrega, for their continual collaboration to improving essential processes in cancer reports.

To the registrars: Célia, Katia, Maria Rita, with more than 15 years of dedication to the HCR, and Mariana, for their continual striving for perfection and their efforts in registering the cases with quality and reliability.

Diego Rodrigues Mendonça e Silva HCR Supervisor



Introduction

This report is the first Cancer Observatory for the A.C. Camargo Cancer Center's (ACCCC's) Hospital Cancer Registry (HCR), containing information about the cancer cases diagnosed and treated at the institution between 2000 and 2020.

HCRs are sources of information about cancer, including diagnoses, clinical characteristics, treatment, and short- and long-term outcomes. They contribute to cancer control programs and population-based cancer registries (Curado, 2019). Thus, they are data sources that help to inform health professionals, patients, the scientific community, and society about the profile of patients treated, including sociodemographic, clinical, diagnostic, and treatment characteristics, as well as overall survival information.

We would like to pay tribute to the founders of the registry of cancer patients at ACCCC since its creation in 1953, including the pathologist Dr. Humberto Torloni (1924–2016), who contributed greatly to the registry and the description of tumors, and Hirde Contesini (1924–), head of the Medical Archive Service, who, in partnership with Dr. Torloni, has contributed significantly to the institution's records and archives of cancer cases. Our tribute also goes to Dr. Massaki Udiahara (1913–1981), a member of ACCCC's Technical Board, which began the work of developing a registry of cancer cases (Bueno, 2015).

We hope that the information presented here constitutes a valuable contribution to doctors, health professionals, scientists, graduate students, and cancer patients.

Maria Paula Curado

Epidemiologist, Head of the Epidemiology and Statistics Group

José Humberto Tavares Guerreiro Fregnani

Superintendent of Teaching and Research



- 10

The Hospital Cancer Registry (HCR)

1.1. What is a Hospital Cancer Registry?

A Hospital Cancer Registry is an information system maintained by a work group specializing in the extraction, coding, and validation of data on patients treated for cancer at a particular institution. Each cancer case record includes information about the patient's sociodemographic status, diagnosis, cancer staging, and treatment, as well as follow-up.

The HCR team consists of cancer registrars trained in the extraction, classification, and coding of cancer cases according to the International Classification of Diseases for Oncology, 3rd edition (ICD-O3).

In 1993, the Brazilian Health Ministry, via Ordinance 170, mandated that hospitals providing cancer care through the Unified Health System establish HCRs. Ordinance MS 3.535/1998 made it obligatory for advanced cancer treatment centers in Brazil to have and continue the activities of hospital registries (MS, 1998).

In the state of São Paulo, Resolution SS-15 charged the Fundação Oncocentro de São Paulo (FOSP) with the coordination and processing of cases registered in the state's HCRs (SESSP, 2000). In 2000, a standardized form for the collection of patient data (including information as sociodemographic tumor diagnosis, staging, treatment, and outcomes) was developed. This form facilitates systematic data collection by all public and private hospital units that treat cancer patients in the state of São Paulo.

1.2. General objective of the HCR

To describe cancer cases treated at the ACCCC.

1.3. Specific objectives

- To describe the sociodemographic, epidemiological, and clinical patterns of cancer cases.
- To describe neoplasm staging at diagnosis.
- To estimate the overall survival of patients treated.

11 -

1.4. The HCR rules for abstracting

Single and/or multiple tumors

The HCR contains records of all malignancies diagnosed in individual patients. One or more tumors may be registered for the same patient at same time or at different date. Morphological diagnoses are recorded for each tumor based on the anatomopathological description available as the gold

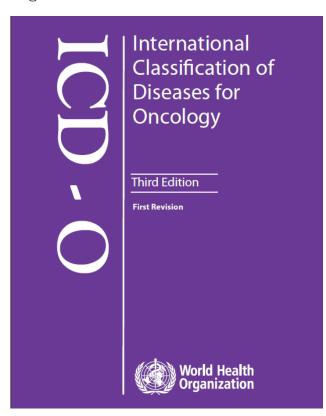


Figure 1. International Classification of Diseases for Oncology – 3rd edition, 2013.

standard for diagnostic confirmation. Multiple tumors can be synchronous, meaning that two primary tumors are diagnosed at the same time o in a short interval period, in the same organ or different organs; or metachronous, meaning that a new tumor is diagnosed six or more months after the primary tumor. The second primary (or third) tumor may present with or without the same histological type.

Steps for malignant tumor recording

The database contains information on all patients who receive partial or complete cancer treatment at the institution in each calendar year. Cancer cases are recorded retrospectively, with a delay of about six months to one year relative to the current calendar year.

The first step for the recording of a new cancer case is the identification of the new case from the data sources available; at the hospital through referral from a department of anatomical pathology, chemotherapy, or radiation therapy

or an oncological clinic. After the case is identified as cancer, the patient is admitted, a process that includes the collection of data on variables required for the HCR (Appendix) via the analysis of the patient's medical records.

The classification and coding are performed based on the tumor's topography and morphology, using the 2005 Portuguese version of the ICD-O3 as a reference (Figure 1). At this time, the hospital staff also collects information about the tumor's clinical stage, pathology classification, and abstract the treatments administered; finally, it records the patient's vital status (alive or dead).

Cases are registered in the ACCC's HCR, as in other HCRs in the state of São Paulo, using the SISRHC® 2007 (version 6.72) software developed by the FOSP. This software has rules of compatibility and validation for Topography/Morphology, Sex/Topography, and Age/Morphology. After all cases for a calendar year have been recorded, a new verification of data consistency and validity is performed using the IARCcrgTools® 2005 (version 2.13) software developed by the International Agency for Research on Cancer. Checks for duplicate cases are performed using the Linkage Plus 2007 (version 2.0) software developed by the Centers for Disease Control and Prevention.



The consolidated database is backed up monthly and sent to the FOSP every three months. The FOSP send the recorded cases on to the National Cancer Institute (INCA).

The FOSP disseminates the data by making it available to the public via its institutional website, on the TabNet platform (http://www.fosp.saude.sp.gov.br). Aggregated data is also available on the TabNet platform in the ACCCC's internal institutional network (http://10.11.39.42:8080/cgi-bin/dh?rhc/RHC-Ge-ral.def).

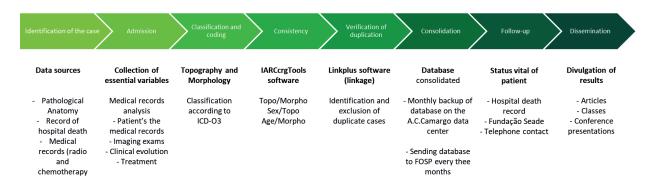


Figure 2. Flow of the registry of new cancer cases in the HCR of the ACCCC, São Paulo, 2022.

HCR data quality indicators

The data quality indicators for the HCR are the proportions of cases confirmed histologically, of "Neoplasm malignant" (8000/3) and "Unknown primary site" (C80.9), and without clinical code X staging. Periodic monitoring of these indicators enables the identification of flaws, improvements, and advances in the quality of information generated in the HCR.

The Ministry of Health/INCA's Manual for Cancer Registries (2010) contains recommendations for quality indicator evaluation. in the state of São Paulo, the FOSP evaluates the same indicators. Table 1 shows values for the data quality indicators for the ACCCC's HCR for the period of 2000–2020.

Tablel 1. Data Quality indicators for the Hospital Cancer Registry of the A.C. Camargo Cancer Center, 2000–2020.

| Indicators | A.C. CAMARGO | Fundação Oncocentro de São Paulo (FOSP)a | National Cancer Institute (INCA)b |
|--|-----------------|--|--------------------------------------|
| Proportion of cases with microscopic confirmation (histology) | 98.8% | 98.3% | ≥ 95.0% - <100% |
| Proportion of cases coded as "Neoplasm malignant - (8000/3)" | 0.2% | 0.9% | < 3.0% |
| Proportion of cases coded as "Unknown primary site" (C80.9) | 0.7% | 1.4% | <2.5% |
| Proportion of cases without staging (code "X") | 5.1% | 4.1% | <10.0 % |

a) HCRs from the state of São Paulo, 2000-2016. Source: FOSP, August 2022.

b) National Cancer Institute (Brazil), Hospital Cancer Registries: planning and development. 2nd ed. rev. Rio de Janeiro: INCA, 2010.

The Cancer Observatory methods

3.1. Descriptive

The descriptive analysis was performed with data from patients diagnosed with cancer between 2000 and 2020 and treated fully at the Institution, extracted from the HCR database on August 10, 2022.

Absolute and relative frequencies were calculated for the following variables: year of diagnosis, sex, age range, municipality of residence in the state of São Paulo, type of cancer (topography), and ACCCC reference center (RC).

The analyses were performed using Microsoft Excel (Microsoft 365) and IBM® SPSS Statistics (version 23). A thematic map was plotted using the QGIS geoprocessing software (version 3.24.2) and a WGS 84 projection of the cartographic base for municipalities in the state of São Paulo.

3.2. Survival

- 14

The survival analysis was performed with data on cases of cancer diagnosed between 2000 and 2017 and treated at the ACCCC. For each sex, the ten most common malignant neoplasms were chosen based on topography (solid malignancies) and ICD-O3 classification, and presented according to the International Classification of Diseases, 10th revision (Chart 1).

Survival was calculated as the difference between the dates of diagnosis and death (of any cause) or latest record, with vital status to June 1, 2022. Overall survival was calculated by sex for three five-year periods (2000-2004, 2005-2009, and 2010-2014) and one three-year period (2015-2017).

An analysis of overall survival by sex that was stratified by clinical stage (I–IV) according to the TNM classification of malignant tumors was also performed. Excluded from this analysis were tumors exclusive to a single sex (e.g., female breast, cervix uterine, and prostate) and Hodgkin's lymphoma, for which TNM staging is not used. Overall five-year survival during the period 2000-2017 was examined in this analysis.

Survival curves were produced using the Shiny package of the RStudio $^{\circ}$ 2018 (version 1.1.463) software, and survival probabilities at 60 months were estimated. The survival curves were compared using the log-rank test with a significance level of p < 0.05 using IBM $^{\circ}$ SPSS Statistics (version 23).

| | _ |
|--|---|
| | _ |
| | • |
| | |

| Histological type (ICD-10) | Topography (CID- O3) | Morphology (ICD-O3) | Sex |
|---|---|---|-------------|
| Squamous cell carcinomas of oropharynx (C01, C02.4, C05.1, C05.2, C09-C10) | C01, C02.4, C05.1, C05.2, C09-C10 | 80523, 80703, 80713, 80723, 80743, 80763, 80833 | Male/Female |
| Squamous cell carcinomas of oral cavity (C02-C06) | C02-C06 except C05.1 and C05.2 | 80703, 80713, 80723, 80743, 80753, 80763, 80833 | Male/Female |
| Adenocarcinomas of stomach (C16) | C16 | 81403, 81443, 82013, 82103, 82113, 82433, 82513, 82553, 82603, 82633, 83103, 83233, 84803, 84813, 84903, 85503 | Male/Female |
| Adenocarcinomas of colon and rectum (C18-C20) | C18, C19, C20 | 81403, 82103, 82113, 82203, 82213, 82613, 82623, 82633, 84703, 84803, 84813, 84903 | Male/Female |
| Adenocarcinoma of lung (C34) | C34 | 81403, 82003, 82013, 82113, 82503 – 82553, 82603, 83103, 83233, 83333, 84303, 84803, 84813, 84903, 85503, 85743 | Male/Female |
| Melanoma of skin (C43) | C44 | 87203 - 87233, 87303, 87403 - 87463, 87613, 87703 - 87723, 87803 | Male/Female |
| Invasive breast carcinoma of no special type (C50) | C50 | 85003, 85213 | Female |
| Squamous cell carcinomas of cervix (C53) | C53 | 80523, 80703 – 80763, 80833, 80843 | Female |
| Endometrial adenocarcinoma of uterus (C54) | C54 | 83803 | Female |
| Adenocarcinomas of prostate (C61) | C61 | 81403, 85003, 85503 | Male |
| Renal cell carcinoma (C64) | C64 | 81203, 81303, 82603, 82903, 83103 – 83193, 83233, 84803 | Male/Female |
| Carcinomas of bladder (C67) | C67 | 80103, 80203, 80413, 80503, 80703, 81203, 81303, 81403, 82113, 83103, 84803, 84903 | Male/Female |
| Papillary thyroid carcinoma (C73) | C73 | 80503, 82603, 83413, 83433, 83443 | Male/Female |
| Hodgkin's lymphoma (C81) | C77 | 96503, 96513, 96523, 96533, 96593, 96633, 96643, 96653, 96673 | Male/Female |

4.1 Descriptive

16

From January 2000 to December 2020, 98,711 analytical cases of cancer (i.e., cancer in patients without prior cancer treatment) were recorded in the HCR of the ACCCC.

The annual number of cases ranged from 2,031 in 2000 to 6,119 in 2020, with a reduction in 2020 relative to 2013-2019 due to the COVID-19 pandemic.

The data show a trend of an 11.0% (95% CI, 9.3–12.9%) annual increase in the number of cases from 2000 to 2017, with an insignificant reduction of 9.7% (95% CI, 13.8–28.4%) between 2017 and 2020. For the whole period 2000–2020, the trend was a 7.7% (95% CI 4.0–11.4%) annual increase in the number of cases (Figure 3).

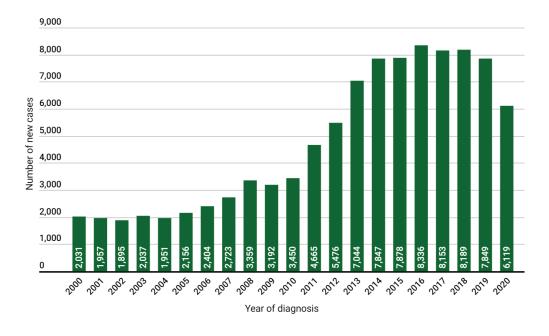


Figure 3. Numbers of new cancer cases recorded in the HCR of ACCCC, 2000–2020.

Fifty-three percent (n = 51,944) of the cases, including those of non-melanoma skin cancer, recorded in 2000-2020 were in female patients (Figure 4).

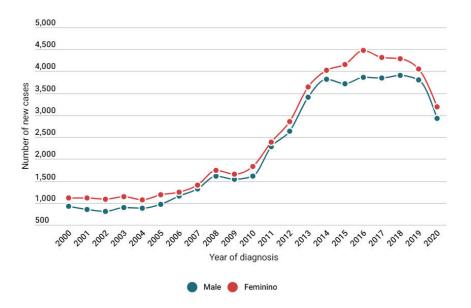


Figure 4. Numbers of new cancer cases (including non-melanoma skin cancer) recorded in the HCR of ACCCC, 2000–2020, by sex.

Two percent of the cases registered between 2000 and 2020 occurred in adolescents and children (933 in males and 930 in females). For males, 7% (n= 3262) of cases were in young adults, 32% (n = 14,744) were in adults, and 60% (n = 27,828) were in elderly adults. For females, these proportions were 16% (n = 8404) for young adults, 40% (n = 20,790) for adults, and 42% (n = 21,820) for elderly adults (Figure 5).

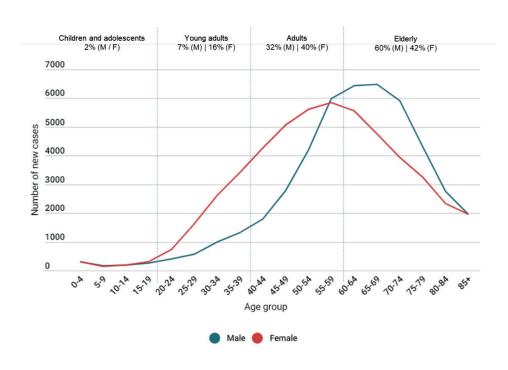


Figure 5. Distribution of the 98,711 cases of cancer recorded in the HCR of ACCCC, 2000–2020, by age and sex.

17 -

The majority [94% (n = 92,814)] of patients treated at the ACCCC lived in the state of São Paulo; of these, 65% (60,522) lived in the city of São Paulo, 22% (n = 20,563) lived in the São Paulo metropolitan region, and 13% (n = 11,729) lived in elsewhere in the state (Figure 6).

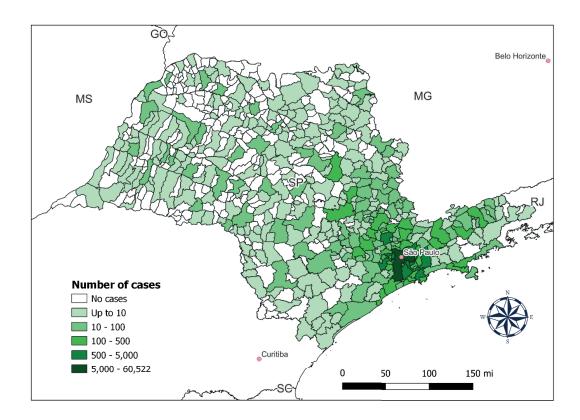


Figure 6. Numbers of new cancer cases (including non-melanoma skin cancer) recorded in the HCR of ACCCC, 2000–2020, by sex.

Distribution of malignant neoplasms by topography and sex

Among the female patients, the most common malignant neoplasms were breast, non-melanoma skin cancer, thyroid, cervix, and colorectal cancers. Among the male patients, the most common malignancies were non-melanoma skin cancer, prostate, melanoma skin, colorectal, and lung cancers (Figure 7).

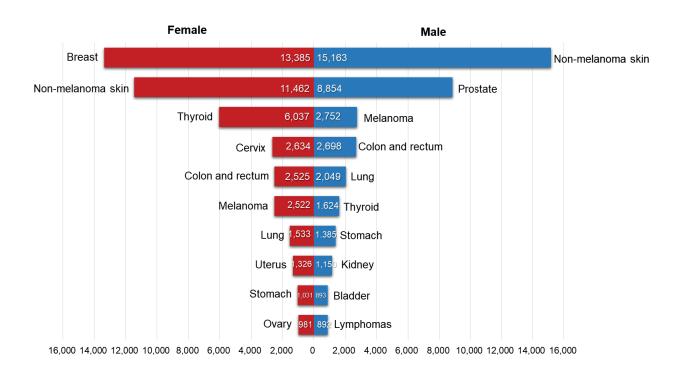


Figure 7. The ten malignant neoplasms, including non-melanoma skin cancer, treated most at the ACCCC in male and female patients. HCR, 2000–2020.

19 —

- 20

Distribution of cancer cases by ACCCC Reference Center for treatment

The cancer center model is a comprehensive approach that combines the pillars of diagnosis, treatment, research, and teaching to improve the well-being of cancer patients. This model is implemented through Reference Center, which are staffed by multidisciplinary teams of oncologists dedicated to providing patients with the best possible care in terms of prevention, diagnosis, treatment, and rehabilitation.

The ACCCC has 12 specialized Reference Center that focus on breast, gynecological, skin, lung and thoracic, pediatric, upper gastrointestinal tract, central nervous system, colorectal, urological, and head and neck tumors, neoplastic blood diseases, sarcomas and bone tumors.

More than 30% (n = 31,776) of the cases recorded in the HCR between 2000 and 2020 were treated at the Skin Tumor RC, which includes non-melanoma skin cancers such as basal cell and squamous cell carcinomas, as well as melanoma. The Breast Tumor and Head and Neck Tumor RCs treated 13.6% and 13.1% of cases, respectively (Figure 8).

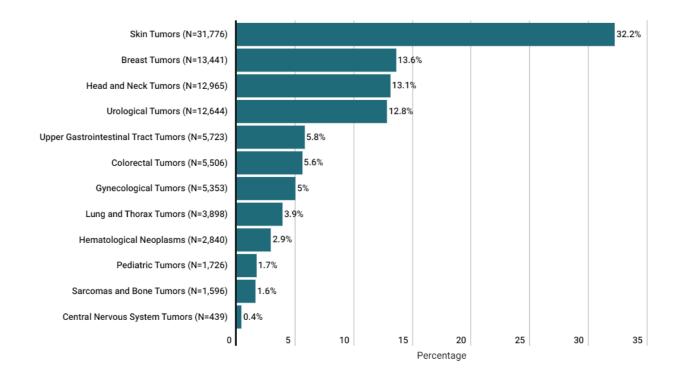


Figure 8. Proportions of the 98,711 cancer cases recorded in the HCR of ACCCC, 2000-2020, treated at the RCs.

Table 2 shows the distribution of cases recorded in 2000-2020 by topography (ICD-O3 C00-C80) and year of diagnosis.

Table 2. Distribution of new cancer cases recorded in the HCR of ACCCC, 2000–2020, by topography (ICD–O3 code) and year of diagnosis for both sexes.

| Topography (ICD-O3) | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| C00 Lip | 2 | 7 | 0 | 3 | 3 | 7 | 6 | 3 | 5 | 7 | 7 | 8 | 10 | 7 | 13 | 6 | 6 | 13 | 2 | 4 | 5 | 124 |
| C01 Base of tongue | 13 | 12 | 7 | 12 | 7 | 1 | 6 | 13 | 14 | 15 | 16 | 29 | 14 | 17 | 32 | 17 | 14 | 18 | 17 | 11 | 14 | 299 |
| CO2 Other and unspecified parts of tongue | 28 | 17 | 15 | 18 | 11 | 15 | 12 | 33 | 20 | 22 | 23 | 38 | 31 | 30 | 35 | 35 | 51 | 52 | 35 | 33 | 32 | 586 |
| C03 Gum | 11 | 6 | 9 | 8 | 9 | 5 | 5 | 9 | 6 | 2 | 10 | 11 | 13 | 8 | 7 | 14 | 8 | 9 | 4 | 14 | 8 | 176 |
| C04 Floor of mouth | 12 | 7 | 10 | 3 | 5 | 8 | 10 | 5 | 11 | 9 | 8 | 16 | 9 | 12 | 15 | 10 | 11 | 14 | 13 | 9 | 6 | 203 |
| C05 Palate | 9 | 11 | 11 | 6 | 4 | 11 | 8 | 16 | 10 | 7 | 9 | 17 | 17 | 19 | 18 | 12 | 16 | 16 | 14 | 12 | 10 | 253 |
| C06 Other and unspecified parts of mouth | 18 | 4 | 13 | 6 | 5 | 5 | 6 | 9 | 9 | 10 | 9 | 15 | 16 | 15 | 14 | 31 | 23 | 29 | 16 | 15 | 13 | 281 |
| C07 Parotid gland | 4 | 7 | 5 | 9 | 7 | 3 | 7 | 8 | 3 | 7 | 9 | 11 | 16 | 12 | 14 | 9 | 13 | 19 | 12 | 18 | 10 | 203 |
| C08 Other and unspecified major salivary glands | 1 | 4 | 2 | 2 | 1 | 4 | 1 | 2 | 0 | 2 | 4 | 1 | 7 | 3 | 2 | 4 | 9 | 4 | 4 | 2 | 4 | 63 |
| C09 Tonsil | 14 | 11 | 9 | 13 | 8 | 9 | 13 | 13 | 12 | 10 | 13 | 18 | 22 | 23 | 22 | 22 | 22 | 27 | 20 | 15 | 12 | 328 |
| C10 Oropharynx | 6 | 4 | 4 | 4 | 2 | 3 | 6 | 12 | 11 | 10 | 14 | 14 | 12 | 27 | 17 | -11 | 17 | 22 | 10 | 14 | 12 | 232 |
| C11 Nasopharynx | 13 | 10 | 7 | 13 | 6 | 10 | 7 | 8 | 17 | 10 | 13 | 13 | 13 | 17 | 21 | 10 | 8 | 9 | 8 | 8 | 7 | 228 |
| C12 Pyriform sinus | 12 | 12 | 12 | 5 | 4 | 3 | 7 | 3 | 13 | 2 | 8 | 5 | 6 | 9 | 10 | 5 | 7 | 6 | 3 | 3 | 3 | 138 |
| C13 Hypopharynx | 0 | 7 | 6 | 5 | 5 | 2 | 6 | 9 | 3 | 5 | 6 | 3 | 5 | 10 | 8 | 8 | 6 | 5 | 5 | 6 | 1 | 111 |
| C14 Other and ill-defined sites in lip, oral cavity and pharynx | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 0 | 7 |
| C15 Esophagus | 25 | 23 | 20 | 30 | 26 | 17 | 10 | 19 | 41 | 30 | 27 | 35 | 29 | 42 | 51 | 49 | 39 | 44 | 31 | 23 | 17 | 628 |
| C16 Stomach | 64 | 66 | 57 | 47 | 57 | 59 | 75 | 92 | 107 | 129 | 106 | 138 | 133 | 202 | 174 | 203 | 175 | 174 | 144 | 114 | 100 | 2416 |
| C17 Small intestine | 1 | 0 | 3 | 4 | 3 | 3 | 8 | 8 | 7 | 8 | 3 | 11 | 19 | 14 | 16 | 30 | 28 | 23 | 18 | 23 | 22 | 252 |
| C18 Colon | 25 | 36 | 41 | 60 | 40 | 64 | 72 | 83 | 90 | 67 | 102 | 132 | 164 | 249 | 224 | 228 | 247 | 236 | 202 | 203 | 147 | 2712 |
| C19 Rectosigmoid junction | 2 | 2 | 10 | 14 | 21 | 7 | 22 | 9 | 12 | 17 | 18 | 25 | 36 | 38 | 53 | 48 | 68 | 57 | 53 | 28 | 26 | 566 |
| C20 Rectum | 32 | 36 | 48 | 47 | 39 | 50 | 58 | 82 | 104 | 81 | 70 | 114 | 114 | 153 | 149 | 142 | 163 | 138 | 127 | 128 | 70 | 1945 |
| C21 Anus and anal canal | 6 | 9 | 11 | 7 | 6 | 10 | 4 | 10 | 14 | 14 | 11 | 7 | 19 | 22 | 16 | 21 | 15 | 19 | 24 | 23 | 20 | 288 |
| C22 Liver and intrahepatic bile ducts | 12 | 12 | 18 | 16 | 17 | 25 | 15 | 28 | 33 | 34 | 32 | 37 | 50 | 38 | 57 | 66 | 69 | 50 | 59 | 53 | 33 | 754 |
| C23 Gallbladder | 4 | 1 | 3 | 1 | 3 | 3 | 1 | 2 | 2 | 6 | 3 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 2 | 5 | 3 | 65 |
| C24 Other and unspecified parts of billiary tract | 7 | 4 | 0 | 6 | 6 | 5 | 10 | 10 | 9 | 8 | 8 | 16 | 13 | 20 | 31 | 28 | 28 | 16 | 22 | 20 | 9 | 276 |
| C25 Pancreas | 27 | 22 | 26 | 22 | 20 | 27 | 31 | 37 | 45 | 46 | 50 | 68 | 86 | 88 | 108 | 120 | 127 | 97 | 105 | 121 | 82 | 1355 |
| C26 Other and ill-defined digestive organs | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 4 | 5 | 2 | 6 | 3 | 2 | 8 | 1 | 0 | 36 |
| C30 Nasal cavity and middle ear | 4 | 2 | 5 | 4 | 2 | 5 | 4 | 2 | 5 | 6 | 6 | 5 | 5 | 8 | 5 | 5 | 9 | 13 | 9 | 5 | 9 | 118 |
| C31 Accessory sinuses | 7 | 3 | 2 | 8 | 2 | 3 | 3 | 4 | 6 | 1 | 3 | 6 | 5 | 6 | 3 | 2 | 4 | 7 | 8 | 7 | 6 | 96 |
| C32 Larynx | 43 | 32 | 27 | 31 | 29 | 19 | 46 | 36 | 41 | 45 | 34 | 51 | 42 | 48 | 72 | 47 | 41 | 46 | 31 | 33 | 28 | 822 |
| C33 Trachea | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 7 |
| C34 Bronchus and Lung | 132 | 105 | 93 | 112 | 103 | 115 | 109 | 123 | 138 | 130 | 130 | 173 | 195 | 237 | 241 | 251 | 261 | 284 | 269 | 211 | 163 | 3575 |
| C37 Thymus | 1 | 1 | 1 | 1 | 0 | 0 | 2 | 2 | 6 | 3 | 5 | 5 | 1 | 4 | 11 | 4 | 8 | 6 | 13 | 4 | 3 | 81 |
| C38 Heart, Mediastinum and pleura | 15 | 6 | 7 | 11 | 12 | 11 | 9 | 9 | 10 | 5 | 11 | 17 | 15 | 23 | 19 | 17 | 15 | 15 | 30 | 21 | 8 | 286 |
| C40 Bones, joints and articular cartilage of limbs | 29 | 34 | 19 | 20 | 13 | 4 | 10 | 7 | 10 | 5 | 10 | 7 | 11 | 25 | 20 | 8 | 11 | 16 | 8 | 11 | 13 | 291 |
| C41 Bones, joints and articular cartilage of other and unspecified sites | 12 | 10 | 11 | 8 | 6 | 8 | 9 | 11 | 18 | 8 | 7 | 7 | 12 | 12 | 10 | 13 | 18 | 11 | 16 | 9 | 10 | 226 |

| Topography (ICD-03) | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| C42 Hematopoietic and | 61 | 56 | 32 | 47 | 40 | 28 | 50 | 43 | 62 | 57 | 46 | 84 | 81 | 87 | 106 | 121 | 109 | 114 | 107 | 84 | 79 | 1494 |
| reticuloendothelial systems C43 Skin Melanoma | 75 | 54 | 60 | 60 | 77 | 124 | 141 | 131 | 174 | 125 | 111 | 252 | 333 | 364 | 367 | 407 | 476 | 535 | 499 | 508 | 401 | 5274 |
| C44 Skin Non-melanoma | 191 | 300 | 285 | 315 | 310 | 368 | 374 | 468 | 640 | 672 | 725 | 879 | 1343 | 1676 | 2199 | 2214 | 2453 | 2476 | 2979 | 3150 | 2608 | 26625 |
| C47 Peripheral nerves and | 1000 | | 96 | _ | 0.00 | 200 | 7,30 | 4 | | 1 | 53 | | 100 | 100 | | - 33 | | - | 1 | 33 | 183 | SENS |
| autonomic nervous system | 5 | 6 | 8 | 6 | 2 | 2 | 3 | - | 4 | | 3 | 3 | 0 | 0 | 1 | 0 | 4 | 0 | 100 | 0 | 2 | 55 |
| C48 Retroperitoneum and peritoneum C49 Connective, subcutaneous and | 12 | 10 | 13 | 9 | 10 | 13 | 12 | 9 | 13 | 19 | 15 | 22 | 16 | 24 | 23 | 20 | 26 | 11 | 23 | 20 | 17 | 337 |
| other soft tissues | 44 | 32 | 44 | 40 | 36 | 26 | 34 | 42 | 40 | 37 | 38 | 45 | 70 | 71 | 65 | 88 | 64 | 61 | 50 | 52 | 47 | 1026 |
| C50 Breast | 337 | 331 | 317 | 324 | 302 | 365 | 350 | 425 | 475 | 452 | 529 | 649 | 728 | 943 | 986 | 1037 | 1108 | 1071 | 1123 | 934 | 657 | 13443 |
| C51 Vulva | 11 | 8 | 9 | 13 | 4 | 8 | 6 | 9 | 9 | 8 | 10 | 12 | 12 | 11 | 29 | 18 | 19 | 19 | 20 | 10 | 10 | 255 |
| C52 Vagina | 8 | 2 | 6 | 3 | 1 | 5 | 5 | 3 | 7 | 4 | 6 | 14 | 7 | 12 | 9 | 5 | 6 | 9 | 10 | 4 | 4 | 130 |
| C53 Cervix uteri | 91 | 73 | 63 | 72 | 53 | 36 | 35 | 44 | 93 | 68 | 82 | 109 | 116 | 236 | 236 | 234 | 246 | 240 | 212 | 158 | 137 | 2634 |
| C54 Corpus uteri | 27 | 29 | 30 | 32 | 23 | 29 | 37 | 20 | 48 | 44 | 55 | 66 | 72 | 84 | 120 | 104 | 111 | 107 | 106 | 106 | 76 | 1326 |
| C55 Uterus, NOS | 2 | 1 | 1 | 1 | 2 | 0 | 2 | 0 | 0 | 1 | 2 | 2 | 4 | 2 | 5 | 3 | 1 | 1 | 0 | 1 | 3 | 34 |
| C56 Ovary | 26 | 31 | 22 | 32 | 30 | 26 | 36 | 33 | 28 | 28 | 31 | 43 | 40 | 66 | 80 | 90 | 93 | 82 | 63 | 53 | 48 | 981 |
| C57 Other and unspecified female genital organs | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 3 | 2 | 4 | 3 | 4 | 1 | 0 | 1 | 2 | 32 |
| C58 Placenta | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| C60 Penis | 3 | 4 | 2 | 3 | 1 | 0 | 6 | 3 | 6 | 4 | 3 | 8 | 7 | 11 | 12 | 10 | 17 | 8 | 10 | 11 | 12 | 141 |
| C61 Prostate gland | 138 | 114 | 122 | 156 | 205 | 213 | 271 | 311 | 377 | 354 | 387 | 577 | 581 | 791 | 838 | 768 | 671 | 671 | 548 | 504 | 257 | 8854 |
| C62 Testis | 4 | 11 | 6 | 5 | 10 | 10 | 19 | 7 | 8 | 12 | 16 | 24 | 23 | 48 | 39 | 39 | 39 | 38 | 46 | 46 | 30 | 480 |
| C63 Other and unspecified male genital organs | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 1 | 8 |
| C64 Kidney | 26 | 17 | 28 | 33 | 28 | 33 | 29 | 42 | 42 | 42 | 57 | 100 | 82 | 134 | 163 | 192 | 192 | 169 | 149 | 144 | 86 | 1788 |
| C65 Renal Pelvis | 0 | 2 | 1 | 2 | 2 | 11 | 1 | 2 | 4 | 3 | 3 | 5 | 6 | 13 | 9 | 10 | 6 | 8 | 5 | 11 | 5 | 99 |
| C66 Ureter | 2 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 5 | 3 | 5 | 3 | 6 | 5 | 3 | 9 | 5 | 53 |
| C67 Bladder | 35 | 22 | 29 | 23 | 21 | 29 | 39 | 51 | 40 | 53 | 40 | 62 | 62 | 115 | 108 | 107 | 104 | 93 | 85 | 76 | 50 | 1244 |
| C68 Other and unspecified urinary organs | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1: | 8 |
| C69 Eye and adnexa | 125 | 92 | 62 | 52 | 62 | 74 | 78 | 69 | 86 | 80 | 65 | 54 | 61 | 64 | 61 | 60 | 72 | 61 | 53 | 34 | 51 | 1416 |
| C70 Meninges | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | -1 | 1 | 1 | 0 | 5 | 1 | 1 | 1 | 0 | 0 | 0 | 4 | 19 |
| C71 Brain | 26 | 23 | 26 | 23 | 16 | 17 | 23 | 29 | 31 | 22 | 16 | 20 | 28 | 42 | 33 | 37 | 29 | 23 | 18 | 26 | 19 | 527 |
| C72 Spinal cord, cranial nerves, and other parts of central nervous | 2 | 5 | 2 | 0 | 1. | 0 | 1 | 2 | 2 | 0 | 1 | 0 | 1 | 6 | 2 | 1: | 1 | 2 | 3 | 0 | 2 | 34 |
| C73 Thyroid gland | 68 | 84 | 114 | 123 | 132 | 149 | 160 | 143 | 214 | 231 | 303 | 423 | 474 | 594 | 667 | 639 | 767 | 685 | 607 | 585 | 499 | 7661 |
| C74 Adrenal gland | 4 | 2 | 4 | 7 | 9 | 3 | 7 | 7 | 7 | 3 | 3 | 5 | 1 | 5 | 5 | 5 | 6 | 9 | 4 | 5 | 7 | 108 |
| C75 Other endocrine gland and related structures | 2 | 4 | 4 | 4 | t | 3 | 4 | 2 | 7 | 5 | 7 | 9 | 4 | 9 | 12 | 11 | 6 | 14 | 2 | 11 | 5 | 126 |
| C76 Other and ill-defined sites | 2 | 3 | 2 | 3 | 2 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 4 | 6 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 29 |
| C77 Lymph nodes | 68 | 71 | 50 | 56 | 53 | 55 | 53 | 62 | 70 | 77 | 69 | 88 | 115 | 136 | 117 | 132 | 124 | 104 | 95 | 87 | 75 | 1757 |
| C80 Unknown primary site | 40 | 43 | 36 | 34 | 33 | 16 | 27 | 42 | 33 | 27 | 37 | 44 | 48 | 36 | 49 | 33 | 27 | 35 | 22 | 9 | 13 | 684 |
| Total | 2031 | 1957 | 1895 | 2037 | 1951 | 2156 | 2404 | 2723 | 3359 | 3192 | 3450 | 4665 | 5476 | 7044 | 7847 | 7878 | 8336 | 8153 | 8189 | 7849 | 6119 | 98711 |

4.2. Survival

The probability of five-year survival of the 10 most common cancers increased during 2000–2017 in both sexes, but to a greater extent among females. For adenocarcinoma of the lung (C34), the survival rate rose from 10.4% (2000–2004) to 51.1% (2015–2017) in men and from 18.8% (2000–2004) to 59.0% (2015–2017) in women. For adenocarcinoma of the stomach, the probability of five-year overall survival increased from 25.2% (2000–2004) to 51.0% (2015–2017) in men and from 31.3% (2000–2004) to 58.5% (2015–2017) in women (Tables 3 and 4). Increases in survival occurred for papillary thyroid adenocarcinoma in men and Hodgkin's lymphoma in both sexes, although with no difference among periods. Survival decreased for bladder carcinoma in women during the period 2015–2017.

The most common neoplasms showed survival increments. For males, squamous cell carcinomas of the oropharynx and oral cavity; adenocarcinomas of the stomach, colon, and rectum; lung cancer; prostate cancer; carcinomas of the bladder and kidneys; papillary thyroid carcinoma; Hodgkin's lymphoma; and melanomas of the skin were analyzed. For women, the same tumors, as well as invasive breast cancer of no special type, cervical squamous cell carcinoma, and uterine endometrial adenocarcinoma, were analyzed. Figures 9–22 show overall survival probability curves by sex.

Overall survival rates for these cancers increased gradually, with better survival observed in the most recent period (2015-2017) in women. ACCCC has embraced innovations and advances in oncological diagnosis and treatment, offering patients better opportunities and increasing their survival.

Table 3. Overall five-year survival probabilities for the most common malignant neoplasms in male patients recorded in the HCR of the ACCCC, 2000-2017.

| | Five-year global survival rate | | | | | | | | | | | | |
|--|--------------------------------|------|--------------|------|------------------|------|------------------|------|----------------------|--|--|--|--|
| Cancer type (ICD-10) – | 2000-200 | 4 | 2005-200 |)9 | 2010-20 | 14 | 2015-20 | 017 | Log- rank test | | | | |
| Males | Deaths/total | % | Deaths/total | % | Deaths/ total | % | Deaths/ total | % | p-value | | | | |
| Squamous cell carcinomas of oropharynx (C01, C02.4, C05.1, C05.2, C09-C10) | 75/115 | 34.8 | 62/128 | 51.4 | 117/233 | 47.2 | 44/143 | 64.0 | <0.001 | | | | |
| Squamous cell carcinomas of oral cavity (C02-C06. except C05.1 and C05.2) | 81/142 | 43.0 | 69/136 | 49.2 | 82/201 | 56.2 | 42/164 | 70.2 | <0.001 | | | | |
| Adenocarcinomas of stomach (C16) | 101/135 | 25.2 | 129/199 | 35.2 | 196/323 | 36.3 | 81/197 | 51.0 | <0.001 | | | | |
| Adenocarcinomas of colon and rectum (C18-C20) | 82/206 | 60.2 | 152/423 | 63.9 | 218/760 | 68.7 | 118/560 | 74.7 | 0.001 | | | | |
| Adenocarcinomas of lungs (C34) | 129/144 | 10.4 | 96/118 | 17.9 | 162/271 | 34.2 | 76/187 | 51.1 | <0.001 | | | | |
| Melanoma of skin (C43) | 31/111 | 71.9 | 48/268 | 82.0 | 71/503 | 83.0 | 23/423 | 92.9 | <0.001 | | | | |
| Adenocarcinomas of prostate (C61) | 120/728 | 83.4 | 146/1519 | 90.0 | 230/3151 | 91.3 | 87/2084 | 94.2 | <0.001 | | | | |
| Renal cell carcinoma (C64) | 27/57 | 52.6 | 24/98 | 75.4 | 55/342 | 81.4 | 29/349 | 89.3 | <0.001 | | | | |
| Bladder carcinomas (C67) | 39/84 | 53.3 | 57/118 | 51.2 | 64/220 | 67.8 | 27/106 | 68.1 | 0.002 | | | | |
| Papillary thyroid carcinoma (C73) | 2/64 | 96.9 | 2/118 | 98.2 | 9/383 | 97.3 | 2/349 | 99.4 | 0.306 | | | | |
| Hodgkin's lymphoma (C81) | 9/63 | 85.7 | 8/64 | 87.5 | 10/90 | 88.1 | 3/54 | 93.1 | 0.640 | | | | |

Table 4. Overall five-year survival probabilities for the most common malignant neoplasms in female patients recorded in the HCR of the ACCCC, 2000-2017.

| | | | Five-ye | ar overa | II survival rate | е | | | |
|---|---|------------------|----------|------------------|------------------|---------|----------|----------------------|--------|
| Cancer type (ICD-10) – | 2000-20 | 04 | 2005-20 | 009 | 2010-20 | 014 | 2015-2 | Log- rank test | |
| Female patients | total % total % 1 10/18 44,4 15/26 42,3 1 30/62 50,8 30/68 54,4 30/68 16) 68/99 31,3 80/125 36,0 1 101/239 57,7 133/367 63,6 1 56/69 18,8 80/108 24,9 1 34/148 76,7 38/267 85,3 4 189/1127 83,2 193/1311 85,2 20 vix 63/161 60,9 48/109 55,5 4 24/88 72,7 20/133 84,8 3 15/40 62,5 13/62 78,8 3 | Deaths/ total | % | Deaths/ total | % | p-value | | | |
| Squamous cell carcinomas of oral cavity (C01, C02.4. C05.1, C05.2, C09-C10) | 10/18 | 44,4 | 15/26 | 42,3 | 14/46 | 66,5 | 7/31 | 68,7 | 0,048 |
| Squamous cell carcinomas of oral cavity (C02-C06, except C05.1 and C05.2) | 30/62 | 50,8 | 30/68 | 54,4 | 39/123 | 65,3 | 19/94 | 76,5 | 0,013 |
| Adenocarcinomas of stomach (C16) | 68/99 | 31,3 | 80/125 | 36,0 | 110/214 | 45,3 | 41/114 | 58,5 | 0,001 |
| Adenocarcinomas of colon and rectum (C18-C20) | 101/239 | 57,7 | 133/367 | 63,6 | 190/685 | 69,5 | 87/479 | 79,2 | <0,001 |
| Adenocarcinomas of lungs (C34) | 56/69 | 18,8 | 80/108 | 24,9 | 119/238 | 42,8 | 73/210 | 59,0 | <0,001 |
| Melanoma of skin (C43) | 34/148 | 76,7 | 38/267 | 85,3 | 41/472 | 90,1 | 12/384 | 95,8 | <0,001 |
| Invasive breast carcinomas of no special type (C50) | 189/1127 | 83,2 | 193/1311 | 85,2 | 205/2191 | 90,0 | 102/1835 | 93,6 | <0,001 |
| Squamous cell carcinomas of cervix (C53) | 63/161 | 60,9 | 48/109 | 55,5 | 46/188 | 69,8 | 16/111 | 83,6 | <0,001 |
| Endometrial adenocarcinoma of uterine corpus (C54) | 24/88 | 72,7 | 20/133 | 84,8 | 26/304 | 90,7 | 19/230 | 90,3 | <0,001 |
| Renal cell carcinoma (C64) | 15/40 | 62,5 | 13/62 | 78,8 | 17/165 | 88,5 | 18/185 | 89,0 | <0,001 |
| Bladder carcinomas (C67) | 13/26 | 48,6 | 23/54 | 57,2 | 26/71 | 60,9 | 16/43 | 57,6 | 0,751 |
| Papillary thyroid carcinoma (C73) | 10/352 | 97,1 | 5/571 | 99,1 | 19/1475 | 98,4 | 4/1313 | 99,6 | 0,003 |
| Hodgkin's lymphoma (C81) | 8/53 | 84,9 | 7/44 | 83,6 | 10/99 | 88,9 | 3/66 | 92,8 | 0,317 |

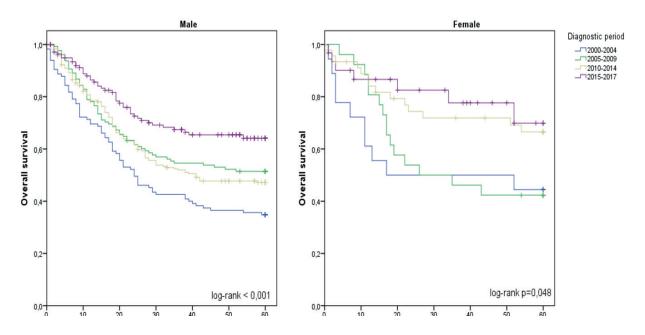


Figure 9. Estimated five-year survival for squamous cell carcinomas of the oropharynx (C01, C02.4, C05.1, C05.2, C09-C10) recorded in the HCR of the ACCCC, 2000-2017.

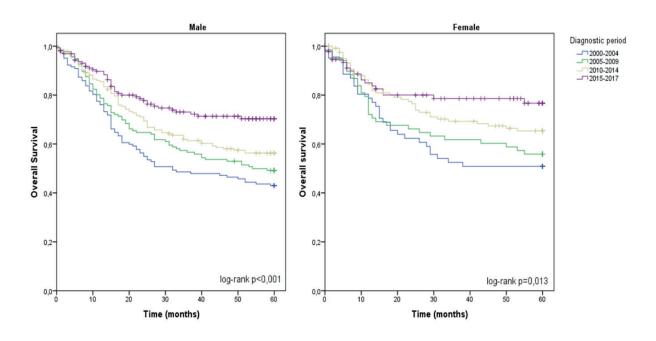


Figure 10. Estimated five-year survival for squamous cell carcinomas of the oral cavity (CO2-CO6 except CO5.1 and CO5.2) in the HCR of the ACCCC, 2000-2017.

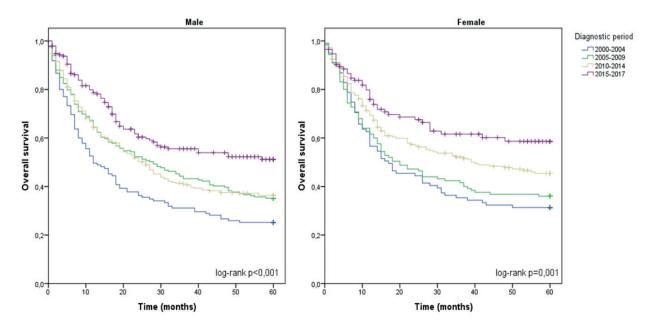


Figure 11. Estimated five-year survival for adenocarcinomas of the stomach (C16) in the HCR of the ACCCC, 2000-2017.

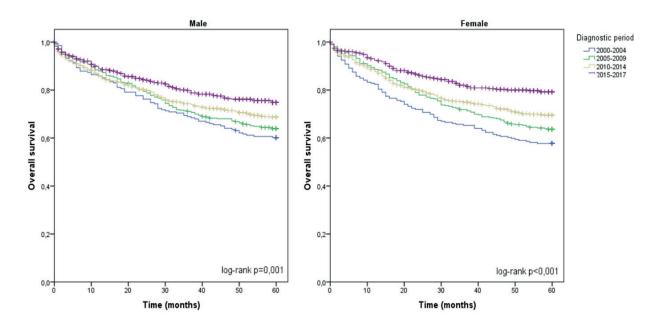


Figura 12. Estimated five-year survival for adenocarcinomas of the colon and rectum (C18-C20) in the HCR of the ACCCC, 2000-2017.

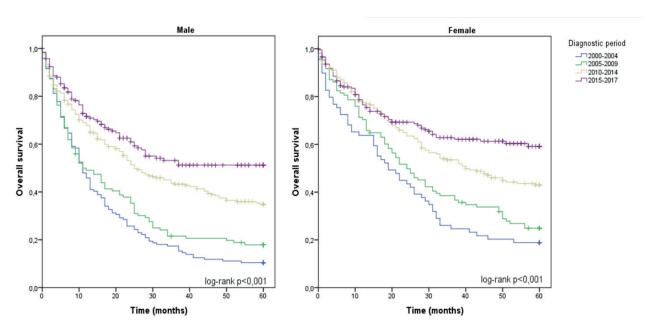


Figure 13. Estimated five-year survival for adenocarcinomas of the lung (C34) in the HCR of the ACCCC, 2000-2017.

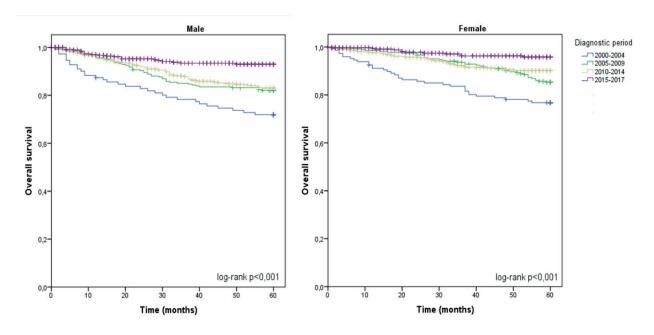


Figure 14. Estimated five-year survival for melanomas of the skin (C43) in the HCR of the ACCCC, 2000-2017.

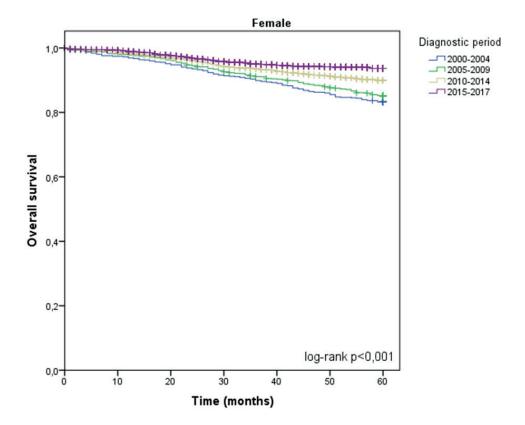


Figure 15. Estimated five-year survival for invasive breast carcinomas of no special type (C50) in the HCR of the ACCCC, 2000-2017.

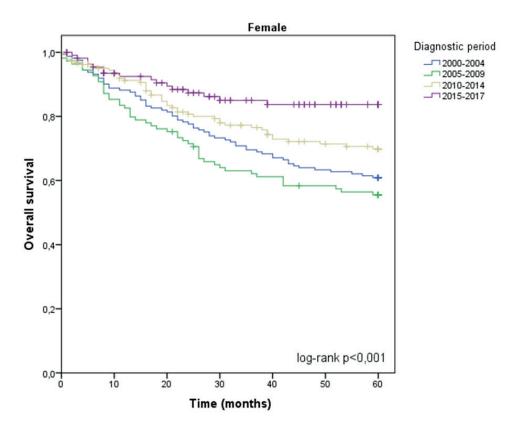


Figure 16. Estimated five-year survival probabilities for squamous cell carcinomas of the cervix (C53) recorded in the HCR of the ACCCC, 2000-2017.

- 28

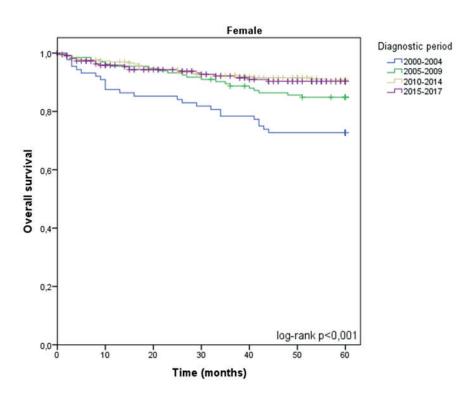


Figura 17. Estimated five-year survival probabilities for endometrial adenocarcinomas of the uterine corpus (C54) recorded in the HCR of the ACCCC, 2000-2017.

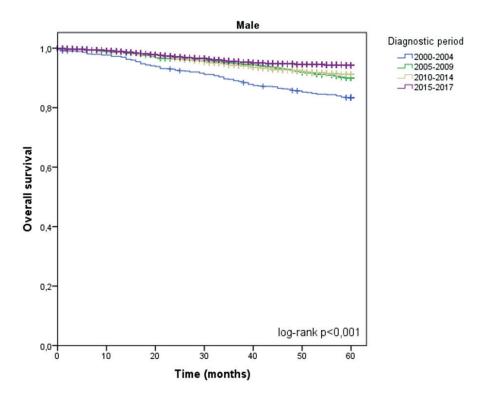


Figura 18. Estimated five-year survival probabilities for invasive adenocarcinomas of the prostate (C61) recorded in the HCR of the ACCCC, 2000-2017.

30

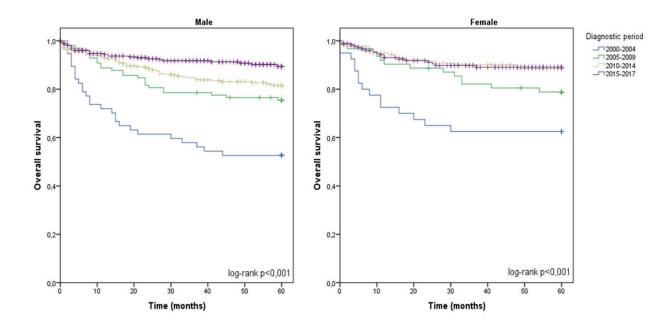


Figure 19. Estimated five-year survival for renal cell carcinomas (C64) r in the HCR of the ACCCC, 2000-2017.

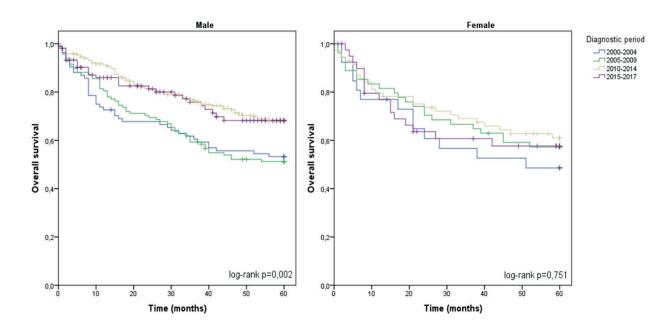


Figure 20. Estimated five-year survival for bladder carcinomas (C67) in the HCR of the ACCCC, 2000-2017.

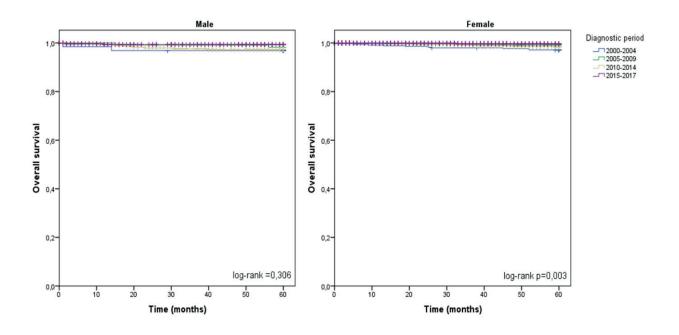


Figure 21. Estimated five-year survival for papillary thyroid carcinomas (C73) in the HCR of the ACCCC, 2000-2017.

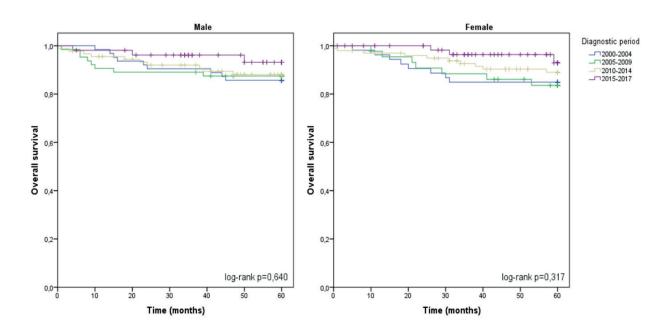


Figure 22. Estimated five-year survival for Hodgkin's lymphomas (C81) in the HCR of the ACCCC, 2000-2017.

- 32

Survival stratified by sex and clinical stage

We observed a greater increase in survival among female than among male patients for the majority of cancers studied, by five-year period overall. Differences in overall five-year survival between female and male patients were significant for squamous cell adenomas of the oral cavity (C02-C06 except C05.1 and C05.2; 64.9% vs. 57.0%, p = 0.042), adenocarcinomas of the lung (C34; 45.1% vs. 33.0%, p < 0.001) and melanoma of the skin (C43; 89.3% vs. 86.2%, p = 0.005; Table 5).

The analysis stratified by clinical stage revealed survival differences favoring female and male patients, respectively, for stage-I adenocarcinomas of the lung (C34; 84.4% vs. 72.6%, p < 0.004) and stage-II renal cell carcinomas (C64; 77.4% vs. 94.4%, p = 0.009; Table 6). No sex difference was observed for any stage-III; the survival of stage-IV adenocarcinoma of the lung (C34) was better for female than for male patients (16.9% vs. 10.4%, p < 0.001; Table 7).

Table 5. Overall five-year survival rates for malignant neoplasms recorded in the HCR of the ACCCC, 2000–2017, stratified by sex.

| | Male | • | Femal | е | |
|--|--------------|-----------------------|--------------|-----------------------|--------------------------|
| Cancer type (ICD-10) | Deaths/total | % Overall Survival | Deaths/total | % Overall Survival | Log-rank test p-value |
| Squamous cell carcinomas of oropharynx (C01, C02.4, C05.1, C05.2, C09-C10) | 311/728 | 52,8 | 49/146 | 61.6 | 0.072 |
| Squamous cell carcinomas of oral cavity (C02-C06. Except C05.1 and C05.2) | 288/753 | 57.0 | 128/414 | 64.9 | 0.042 |
| Adenocarcinomas of stomach (C16) | 533/968 | 39.6 | 320/621 | 44.2 | 0.156 |
| Adenocarcinomas of colon and rectum (C18-C20) | 619/2345 | 69.6 | 549/2160 | 71.0 | 0.374 |
| Adenocarcinoma of lung (C34) | 512/883 | 33.0 | 363/801 | 45.1 | <0.001 |
| Melanoma of skin (C43) | 179/1718 | 86.2 | 131/1594 | 89.3 | 0.005 |
| Renal cell carcinoma (C64) | 149/1092 | 83.1 | 71/564 | 85.8 | 0.334 |
| Bladder carcinomas (C67) | 204/591 | 61.2 | 84/223 | 58.8 | 0.363 |
| Papillary thyroid carcinoma (C73) | 17/1244 | 98.2 | 41/4742 | 98.8 | 0.075 |

Table 6. Overall five-year survival rates for selected cancers recorded in the HCR of the ACCCC, 2000–2017, stratified by clinical stages I and II and sex.

| | | С | linical Stage | e l | | | С | linical Stage | e II | | |
|--|------------------|------|------------------|------|-----------------------------|------------------|--|------------------------------|------|-------|--|
| Cancer type (ICD-10) | Ма | ile | Fem | nale | | Male | | Fem | ale | | |
| cancer type (tell 10) | Deaths/ Total | % | Deaths/ Total | % | Log-rank test p-value | Deaths/ Total | Moderate Mod | Log- rank test p-value | | | |
| Squamous cell carcinomas of oropharynx (C01, C02.4, C05.1, C05.2, C09-C10) | 6/40 | 81.3 | 2/18 | 77.8 | 0.881 | 13/48 | 66.2 | 2/9 | 77.8 | 0.531 | |
| Squamous cell carcinomas of oral cavity (C02-C06, except C05.1 and C05.2) | 22/158 | 82.8 | 10/127 | 89.6 | 0.150 | 35/138 | 71.4 | 17/69 | 71.1 | 0.897 | |
| Adenocarcinomas of stomach (C16) | 24/158 | 83.0 | 12/112 | 88.4 | 0.279 | 46/168 | 69.1 | 27/111 | 73.6 | 0.57 | |
| Adenocarcinomas of colon and rectum (C18-C20) | 42/459 | 88.9 | 31/452 | 91.5 | 0.215 | 72/526 | 84.2 | 62/448 | 84.6 | 0.929 | |
| Adenocarcinoma of lung (C34) | 41/190 | 72.6 | 27/234 | 84.4 | 0.004 | 16/51 | 64.6 | 8/40 | 76.1 | 0.162 | |
| Melanoma of skin (C43) | 37/1167 | 95.3 | 28/1159 | 96.5 | 0.186 | 39/253 | 79.6 | 33/211 | 81.4 | 0.599 | |
| Renal cell carcinoma (C64) | 26/633 | 94.4 | 11/355 | 96.3 | 0.309 | 3/67 | 94.4 | 6/31 | 77.4 | 0.009 | |
| Bladder carcinomas (C67) | 33/232 | 82.5 | 10/74 | 84.6 | 0.865 | 28/88 | 62.7 | 14/33 | 48.2 | 0.285 | |
| Papillary thyroid carcinoma (C73) | 9/980 | 98.8 | 27/4085 | 99.1 | 0.320 | 1/31 | 96.6 | 4/102 | 95.4 | 0.950 | |

Table 7. Overall five-year survival rates for selected cancers recorded in the HCR of the ACCCC, 2000–2017, stratified by clinical stages III and IV and sex.

| | | С | linical stage | III | | Clinical stage IV | | | | | |
|---|------------------|------|---------------|------|---------------------------------|-------------------|------|------------------|------|---------------------------------|--|
| | Mal | е | Fema | ale | | Male | | Female | | | |
| Cancer type (ICD-10) | Deaths/ Total | % | Deaths/N | % | Log- rank test p-value | Deaths/ Total | % | Deaths/ Total | % | Log- rank test p-value | |
| Squamous cell carcinomas of oropharynx (C01, C02.4, C05.1, C05.2, C09-C10) | 46/149 | 65.7 | 11/27 | 43.0 | 0.142 | 237/478 | 46.2 | 34/89 | 59.6 | 0.069 | |
| Squamous cell carcinomas of oral cavity (C02- C06, except C05.1 and C05.2) | 46/127 | 59.2 | 24/61 | 58.6 | 0.681 | 180/315 | 36.5 | 73/142 | 43.6 | 0.435 | |
| Adenocarcinomas of stomach (C16) | 86/190 | 48.9 | 53/113 | 47.5 | 0.958 | 322/378 | 3.3 | 181/218 | 6.3 | 0.968 | |
| Adenocarcinomas of colon and rectum (C18-C20) | 127/690 | 77.7 | 120/681 | 79.2 | 0.594 | 332/585 | 34.1 | 304/512 | 31.1 | 0.642 | |
| Adenocarcinoma of lung (C34) | 59/119 | 39.7 | 45/108 | 47.2 | 0.126 | 374/479 | 10.4 | 261/377 | 16.9 | <0.001 | |
| Melanoma of skin (C43) | 62/186 | 58.9 | 34/127 | 68.5 | 0.053 | 30/58 | 41.2 | 21/35 | 30.7 | 0.953 | |
| Renal cell carcinoma (C64) | 24/113 | 71.7 | 9/70 | 86.3 | 0.146 | 82/124 | 21.0 | 34/46 | 23.0 | 0.825 | |
| Bladder carcinomas (C67) | 31/73 | 49.3 | 19/40 | 49.8 | 0.891 | 73/106 | 25.1 | 29/43 | 27.3 | 0.691 | |
| Papillary thyroid carcinoma (C73) | 2/159 | 98.6 | 6/447 | 98.4 | 0.930 | 5/64 | 88.6 | 3/54 | 94.1 | 0.568 | |

5 Access to the HCR database

Access to this information is available on the A.C. Camargo internet using the Tabnet tool, at:

https://intranet.accamargo.org.br/sistemas/rhc-tabnet



Access to the HCR is gained through the Tabnet tool, which enables the construction of tables of a nonymized data showing the numbers of cancer cases according to variables of interest such as: previous treatment/diagnosis, state of birth, state of residence, age range, sex, educational level, tumor topography, morphology, clinical stage, and treatment. Non-anonymized data may be used for specific research projects with the approval of the (Institutional Review Board - IRB), and requests for access to it are made by emailing the supervisor of HCR authority with the IRB approval attached.

The HCR data reflect the care provided at the ACCCC and the characteristics of the patients treated at the Institution. The numbers of cases reported here do not reflect the total numbers of new cases occurring among residents of the city of São Paulo, only those treated at the ACCCC.

- 34

The HCR of the ACCCC has existed for more than twenty years and contains consolidated data recorded by experienced registrars. Its data quality indicators are highly standards above the standards recommend by INCA/MS and FOSP (Fundacao Oncocentro de Sao Paulo).

During the period of 2000–2020, more than 98,000 new cases of cancer were registered, with the greatest number of cases occurring in women and in residents of the city of São Paulo. For women, the most common malignant neoplasms were breast, non-melanoma skin, thyroid, cervical, and colorectal cancers. For men, they were non-melanoma skin and prostate cancers, melanoma of the skin, and colorectal and lung cancers. The largest number of malignant neoplasms was seen at the Skin Tumor RC, followed by the RCs for breast and head and neck tumors.

The overall five-year survival rate for the most common cancers in women increased in recent periods. No survival difference between periods was observed for papillary thyroid carcinoma in men or Hodgkin's lymphoma in both sexes, probably because the survival rates for these tumors were already high due to their biological behavior (more indolent) For bladder carcinoma in women, the survival rate decreased, but not significantly, in the most recent period (2015-2017).

Increases in survival in both sexes. were greater for female patients for the majority of topographies studied, with significant sex differences observed for cancers of the oral cavity and lung in 2000-2017, Overall five-year survival rates stratified by clinical stage were better for women with stage-I and -IV lung cancer and men with stage-II kidney cancer.

The observed increases in survival during the period 2000–2017 reflect innovations and advances in oncological diagnosis and treatment that the ACCCC has embraced, which has enabled us to offer patients better resources for therapeutic success.

T HCR contacts

For more information, please contact:

- Email: diego.rodrigues@accamargo.org.br (Diego Rodrigues)
- Telephone: +55 (11) 2189-5000, Extension 2942.
- Address: Rua Taguá, n. 440 Centro Internacional de Pesquisa, CEP 01508-010 Liberdade -São Paulo/SP

Contact information is also available at:

1. The Institutional Intranet (Institucional > Recursos > RHC): https://intranet.accamargo.org.br/institucional/recursos/registro-hospitalar-de-cancer-rhc

2. The A.C. Camargo webpage (HCR):

https://accamargo.org.br/pesquisa/registro-hospitalar-de-cancer

8 The HCR

Superintendent of Teaching and Research

Dr. José Humberto Tavares Guerreiro Fregnani

Epidemiologist

Dr. Maria Paula Curado

Operations Manager

Dr. Bernardo Rodrigues Peixoto

Review Pathologist

Dr. Stephania Martins Bezerra

Data Manager Supervisor

Diego Rodrigues Mendonça e Silva

Cancer Registrars

Célia de Souza Katia Mancini Kolpaert Mariana de Souza Silva Maria Rita de Cassia Gomes dos Santos

References

Bueno, Eduardo. O sonho de Carmem: como a sociedade ajudou a transformar a história do câncer no Brasil. 1ed. São Paulo: Comunique Editorial, 2015.

Curado Maria Paula. Importance of hospital cancer registries in Africa. Ecancermedicalscience. 2019 Jul 25:13:948.

Joinpoint Regression Program. Version 4.8.0.1. April, 2020. Statistical Research and Applications. National Cancer Institute.

Ministério da Saúde, Gabinete do Ministro. Portaria nº 3.535, de 2 de setembro de 1998 – estabelece os critérios para cadastramento de centros de atendimento em oncologia. Disponível em: https://bvsms.saude.gov.br/bvs/saudelegis/gm/1998/prt3535_02_09_1998_revog.html Acesso em 30 ago. 2022.

Ministério da Saúde, Instituto Nacional de Câncer José Alencar Gomes da Silva. Registros hospitalares de câncer: planejamento e gestão. 2ª ed. Rio de Janeiro: INCA, 2010.

Ministério da Saúde. Secretaria de Atenção à Saúde. Instituto Nacional de Câncer. TNM: classificação de tumores malignos. UICC. 7ª ed. INCA. Rio de Janeiro, 2012.

National Program of Cancer Registries. Registry Plus™ Link Plus Features and Future Plans [Internet]. Atlanta: Centers for Disease Control and Prevention; 2018 [acessado em 11 jan. 2019]. Disponível em: Disponível em: https://www.cdc.gov/cancer/npcr/tools/registryplus/lp_features.htm

Organização Mundial da Saúde. CID-O Classificação internacional de Doenças para Oncologia. 3ª Ed. EDUSP. São Paulo, 2005.

Secretaria de Estado da Saúde de São Paulo (SESSP). Fundação Oncocentro de São Paulo. Resolução SS-15, de 27 de janeiro de 2000. Disponível: http://www.fosp.saude.sp.gov.br/publicacoes/resolucaoss15 Acesso em 15 fev. 2021.

Secretaria de Estado da Saúde de São Paulo (SESSP). Fundação Oncocentro de São Paulo. Registro Hospitalar de Câncer: conceitos, rotinas e instruções de preenchimento. 2ª ed. São Paulo, 2013. Disponível em: http://www.fosp.saude.sp.gov.br/publicacoes/sisrhc. Acesso em 06 fev. 2022.

Secretaria de Estado da Saúde de São Paulo (SESSP). Fundação Oncocentro de São Paulo. Registro Hospitalar de Câncer de São Paulo: análise dos dados (janeiro/2000 a março/2022) e indicadores de qualidade (2000 a 2016). Disponível em: http://www.fosp.saude.sp.gov.br/fosp/diretoria-adjunta-de-informa-cao-e-epidemiologia/rhc-registro-hospitalar-de-cancer/dados-de-cancer/ Acesso em 06 fev. 2022.

- 38

Appendices

FICHA DE ADMISSÃO

cata :2002/2013 pág.: 1 / 2

| Instituição: | Número RHC: |
|--|---|
| IDENTIFICAÇÃO DO | PACIENTE |
| Prontuário: | Categoria Atend.: 1. 505 / 2. Convênio / Data de Nascimento: / / |
| Sex0: 1. Masculing / DC | cumento: 1. PtS/PASEP / 2. RG / 1. Certidão de Nascimento Nª ldade: |
| Nome: | |
| Nome da mãe: | |
| Escolaridade: 1.Analfabe | a / Z.Ens.Fundamental incompleta / T.Ens.Fundamental completa / 4.Ensino Médio completa / 5.Superior completa / 9.Egnorado |
| Estado/País de nascimento: | |
| Residência atual Logradouro: | N°: |
| Complemento: | Tel.: CEP: |
| Cidade: | UF: |
| • | / / Clínica do atendimento: //OCI |
| Diagnóstico/tratamento ante | rjor: 1. sem diagnástico/sem tratamento / 2. com diagnástico/sem tratamento / 3.com diagnástico/com tratamento |
| Data da primeira consulta: Diagnóstico/tratamento ante Instituição de origem: — INFORMAÇÕES SOB | rjor: 1. sem diagnástico/sem tratamento / 2. com diagnástico/sem tratamento / 3.com diagnástico/com tratamento 4.cutros |
| Diagnóstico/tratamento ante Instituição de origem: — INFORMAÇÕES SOB | rior: 1. sem diagnástico/sem tratamento / 2. com diagnástico/sem tratamento / 3.com diagnástico/com tratamento 4.outros |
| Diagnóstico/tratamento ante Instituição de origem: — INFORIMAÇÕES SOB Data do 1° diagnóstico: | rjor: 1. sem diagnástico/sem tratamento / 2. com diagnástico/sem tratamento / 3.com diagnástico/com tratamento 4.outros RE A DOENÇA |
| Diagnóstico/tratamento ante Instituição de origem: — INFORMAÇÕES SOB Data do 1º diagnóstico: Base para realização do dia | rincipal |
| Diagnóstico/tratamento ante Instituição de origem: INFORMAÇÕES SOB Data do 1º diagnóstico: Base para realização do dia Caracterização do tumor p | rior: 1. sem diagnástico/sem tratamento / 2. com diagnástico/sem tratamento / 3.com diagnástico/com tratamento 4. autros RE A DOENÇA / / gnóstico: 1. exame clínico / 2. recursos auxiliares não microscópicos / 3.confirmação microscópico / 9.sem informação rincipal D - Não se aplico Lateralidade : 1 - Direito |
| Diagnóstico/tratamento ante Instituição de origem: — | rior: 1. sem diagnástico/sem tratamento / 2. com diagnástico/sem tratamento / 3.com diagnástico/com tratamento 4.dutros READOENÇA / / gnóstico: 1. exame clínico / 2. recursos auxiliares não microscópicos / 3.confirmação microscópica / 9.sem informação rincipal D - Não se aplica |
| Diagnóstico/tratamento ante Instituição de origem: INFORIMAÇÕES SOB Data do 1º diagnóstico: Base para realização do dia Caracterização do tumor p Localização primária: | rior: 1. sem diagnástico/sem tratamento / 2. com diagnástico/sem tratamento / 3.com diagnástico/com tratamento 4. autros RE A DOENÇA / / gnóstico: 1. exame clínico / 2. recursos auxiliares não microscópicos / 3.confirmação microscópico / 9.sem informação rincipal D - Não se aplico Lateralidade : 1 - Direito |
| Diagnóstico/tratamento ante Instituição de origem: INFORMAÇÕES SOB Data do 1º diagnóstico: Base para realização do dia Caracterização do tumor p Localização primária: | rior: 1. sem diagnástico/sem tratamento / 2. com diagnástico/sem tratamento / 3.com diagnástico/com tratamento 4. autros RE A DOENÇA / / gnóstico: 1. exame clínico / 2. recursos auxiliares não microscópicos / 1.confirmação microscópico / 9.sem informação rincipal Lateralidade: 1. Direita 2. Esquerda M.: Outro estadiamento: |
| Diagnóstico/tratamento ante Instituição de origem: INFORMAÇÕES SOB Data do 1º diagnóstico: Base para realização do dia Caracterização do tumor p Localização primária: Tipo histológico: Estadio clínico: S: | rior: 1. sem diagnástico/sem tratamento / 2. com diagnástico/sem tratamento / 3.com diagnástico/com tratamento READOENÇA / / gnóstico: 1. exame clínico / 2. recursos auxiliares não microscópicos / 3.confirmação microscópico / 9.sem informação rincipal Lateralidade: 0 - Não se aplico 1 - Direito 2 - Esquerda T: N: M: Outro estadiamento: G: Fatores de Risco: |
| Diagnóstico/tratamento ante Instituição de origem: INFORMAÇÕES SOB Data do 1º diagnóstico: Base para realização do dia Caracterização do tumor p Localização primária: Tipo histológico: Estadio clínico: S: Estadio pós-cirúrgico: | rior: 1. sem diagnástico/sem tratamento / 2. com diagnástico/sem tratamento / 3.com diagnástico/com tratamento 4. autros RE A DOENÇA / / gnóstico: 1. exame clínico / 2. recursos auxiliares não microscópicos / 1.confirmação microscópico / 9.sem informação rincipal Lateralidade: 1. Direita 2. Esquerda M.: Outro estadiamento: |
| Diagnóstico/tratamento ante Instituição de origem: INFORMAÇÕES SOB Data do 1º diagnóstico: Base para realização do dia Caracterização do tumor p Localização primária: Tipo histológico: Estadio clínico: S: | rior: 1. sem diagnástico/sem tratamento / 2. com diagnástico/sem tratamento / 3.com diagnástico/com tratamento READOENÇA / / gnóstico: 1. exame clínico / 2. recursos auxiliares não microscópicos / 3.confirmação microscópico / 9.sem informação rincipal Lateralidade: 0 - Não se aplico 1 - Direito 2 - Esquerda T: N: M: Outro estadiamento: G: Fatores de Risco: |



FICHA DE ADMISSÃO

Data : 20/02/2013 pág.: 2 / 2

| Instituição: | | Número RHC: |
|--|--|--|
| EVENTOS DESSE ATENDIMENTO | | |
| Data de início do tratamento no hospital: | | |
| Tratamento recebido no Hospital: | Fora do hospital antes da admissão: | Fora do hospital durante elou após admissão: |
| Nenhum Cirurgia | Nenhum Cirurgia | Nenhum Cirurgia |
| Radioterapia Quimioterapia | Radioterapia Quimioterapia | Radioterapia Quimioterapia |
| Hormonioterapia TMO | Hormonioterapia TMO | Hormonioterapia TMO |
| Imunoterapia Outros | Imunoterapia Outros | Imunoterapia Outros |
| | Sem informação | Sem informação |
| Razão para não realização do tratamento no hospital : | 1, Recusa do tratamento/ 2.Doença avançada, Falta de co 4.Abandono tratatamento/ 5.Óbito por câncer/ 6.Óbito 9. Sem infomação | |
| Estado da doença ao final do tratamento: | 1.Sem evidência da doença / 2.Remissão parcial / 3.Do 5.Fora de possibilidade/ 6.Óbito por câncer/ 7.Óbito po 9.Não se aplica/ 10.Sem informação | |
| Data do óbito: / / Da | ata de preenchimento: | Registrador: |
| | | |

OBSERVAÇÕES

-- 40

Data : 20/02/2013



FICHA DE SEGUIMENTO

| Instituição: | Número RHC: |
|---|-------------------------|
| IDENTIFICAÇÃO DO PACIENTE | |
| Prontuário: Documento: 1. PIS/PASEP / 2. RG / 3. Cer | tidão de Nascimento N°: |
| 4. CPF / 5. Cartão SUS | |
| Dt. Nascimento: / / Sexo: 1. Masculino / 2. Feminino | |
| Nome: | |
| ÚLTIMA INFORMAÇÃO DO PACIENTE | |
| Situação Atual: 1.Vivo com câncer / 2.Vivo, SOE / 3.Óbito por câncer / 4.Óbito, SOE | |
| 1. Vivo contrained / 2. Vivo, 30E / 3. Contrained / 4. Control, 30E | |
| Data da Informação: / / | |
| Tratamento Realizado Nenhum Cirurgia Radioterapia | Quimioterapia |
| no hospital: | H |
| Hormonioterapia TMO Imunoterapia | Outros |
| | |
| | |
| Tratamento Realizado Nenhum Cirurgia Radioterapia fora do hospital: | Quimioterapia |
| TMO Imunoterapia Outros | Sem informação |
| TIVIO IIIIUIIOLEIAPIA Outios | Sem mormação |
| | |
| Recidiva: 1. Local / 2.Regional / 3.Não / 9.Sem Informação | |
| Data da Basidiya (Matástaca: | |
| Data da Recidiva/Metástase: / / | |
| Metástase: | |
| | |
| | |
| | |
| Data do Óbito: / / | |
| Data do Preenchimento: / / Registrador: | |
| | |
| | |
| OBSERVAÇÕES | |
| | |
| | |
| | |
| | |





GABARITO DO ARQUIVO DBF

| | GABARITO DO ARQUIVO DBF |
|----------|---|
| САМРО | DESCRIÇÃO |
| IBGE | Código do município brasileiro, segundo o IBGE, onde reside o paciente |
| ESCOLARI | I Escolaridade: 1 – Analfabeto 2 – Ensino Fundamental Incompleto 3 – Ensino Fundamental completo 4 – Ensino Médio Completo 5 – Ensino Superior 9 – Ignorado |
| IDADE | Idade do paciente |
| DTNASC | Data de nascimento |
| SEXO | Sexo do paciente: 1 – Masculino 2 – Feminino |
| UFNASC | Estado (UF) de nascimento |
| UFRESID | Estado (UF) da residência |
| ртовіто | Data do óbito |
| DIAGPREV | / Diagnóstico e tratamento anterior: 1 – Sem diagnóstico e sem tratamento 2 – Com diagnóstico e sem tratamento |
| CATATENI | D Categoria de atendimento à admissão: forma do atendimento realizado no hospital, no momento da admissão, de acordo com: SUS Convênio Particular |
| | 03 – Doença estável 08 – Tratamento não concluído 04 – Doença em progressão 09 – Não se aplica 05 – Fora de possibilidades terapêuticas 10 – Sem informação |
| NAOTRAT | Razão para a não realização do tratamento: 1 — Recusa do tratamento 2 — Doença avançada, falta de condições clínicas 7 — Outras razões 3 — Outras doenças associadas 4 — Abandono do tratamento 5 — Óbito por câncer 8 — Não se aplica 9 — Sem informação |
| BASEDIAG | Base utilizada para o diagnóstico: 1 - Exame clínico 2 - Recursos auxiliares não microscópicos 3 - Confirmação microscópica 9 - Sem informação |
| торо | Topografia. Localização do tumor primário (CID-O, 2ª e 3ª edições) |
| MORFO | Morfologia. Tipo histológico do tumor primário (CID-O, 2ª e 3ª edições) |
| DTCONSU | LTA Data da primeira consulta |
| DTDIAG | Data do diagnóstico do tumor |
| EC | Estádio clínico (TNM, 5ª e 6ª edições) |
| T | Código T (TNM, 5ª e 6ª edições) |
| N | Código N (TNM, 5ª e 6ª edições) |
| M | Código M (TNM, 5ª e 6ª edições) |



| | Data de início do primeiro tratamento |
|--|---|
| DTTRAT | Bata de lineio de primeiro tratamento |
| TRATAMENTO | Tipo(s) de tratamento(s) proposto(s): A - Cirurgia G - Cirurgia + Radio + Quimio B - Radioterapia H - Cirurgia+Radio+Quimio+Hormonio C - Quimioterapia I - Outras combinações de tratamento D - Cirurgia + Radioterapia J - Nenhum tratamento realizado E - Cirurgia + Quimioterapia K - Sem informação do tratamento F - Radioterapia + Quimioterapia |
| META01 | Localização da |
| metástase (CID-C | D, 2ª e 3ª edições) |
| META02 | Localização da |
| metástase (CID-C | D, 2ª e 3ª edições) |
| META03 | Localização da |
| metástase (CID-O | , 2ª e 3ª edições) |
| META04 | Localização da metástase (CID-O 2ª e 3ª edições) |
| DTULTSEG Data | do último seguimento informado |
| A) SITULTSEG Si (até dez/2011) | 1 – Vivo com câncer 3 – Óbito por câncer 5 – Liberado de seguimento 2 – Vivo, SOE 4 – Óbito, SOE 9 – Sem informação |
| (até dez/2011) | 2 - Vivo, SOE 4 - Óbito, SOE 9 - Sem informação ituação do paciente no último seguimento informado: |
| (até dez/2011) B) SITULTSEG Si | 2 - Vivo, SOE 4 - Óbito, SOE 9 - Sem informação ituação do paciente no último seguimento informado: 1 - Vivo com câncer 3 - Óbito por câncer 5 - Perda de seguimento |
| (até dez/2011) B) SITULTSEG Si (a partir de mar/2012 | 2 - Vivo, SOE 4 - Óbito, SOE 9 - Sem informação ituação do paciente no último seguimento informado: 2) 1 - Vivo com câncer 3 - Óbito por câncer 5 - Perda de seguimento 2 - Vivo, SOE 4 - Óbito, SOE |
| (até dez/2011) B) SITULTSEG Si (a partir de mar/2012 ANODIAG | 2 - Vivo, SOE 4 - Óbito, SOE 9 - Sem informação ituação do paciente no último seguimento informado: 2) 1 - Vivo com câncer 3 - Óbito por câncer 5 - Perda de seguimento 2 - Vivo, SOE 4 - Óbito, SOE Ano do diagnóstico do tumor |
| (até dez/2011) B) SITULTSEG Si (a partir de mar/2012 ANODIAG ECGRUP TOPOGRUP | 2 - Vivo, SOE 4 - Óbito, SOE 9 - Sem informação ituação do paciente no último seguimento informado: 2) 1 - Vivo com câncer 3 - Óbito por câncer 5 - Perda de seguimento 2 - Vivo, SOE 4 - Óbito, SOE Ano do diagnóstico do tumor Estadiamento TNM agrupado |
| (até dez/2011) B) SITULTSEG Si (a partir de mar/2012 ANODIAG ECGRUP TOPOGRUP 3 dígitos | 2 - Vivo, SOE 4 - Óbito, SOE 9 - Sem informação ituação do paciente no último seguimento informado: 2) 1 - Vivo com câncer 3 - Óbito por câncer 5 - Perda de seguimento 2 - Vivo, SOE 4 - Óbito, SOE Ano do diagnóstico do tumor Estadiamento TNM agrupado Topografia. Localização do tumor primário (CID-O, 2ª e 3ª edições), com |
| (até dez/2011) B) SITULTSEG Si (a partir de mar/2012 ANODIAG ECGRUP TOPOGRUP 3 dígitos CICI | 2 - Vivo, SOE 4 - Óbito, SOE 9 - Sem informação ituação do paciente no último seguimento informado: 2) 1 - Vivo com câncer 3 - Óbito por câncer 5 - Perda de seguimento 2 - Vivo, SOE 4 - Óbito, SOE Ano do diagnóstico do tumor Estadiamento TNM agrupado Topografia. Localização do tumor primário (CID-O, 2ª e 3ª edições), com Estadiamento Infantil - Grupo + Subgrupo |
| (até dez/2011) B) SITULTSEG Si (a partir de mar/2012 ANODIAG ECGRUP TOPOGRUP 3 dígitos CICI CICIGRU | 2 - Vivo, SOE 4 - Óbito, SOE 9 - Sem informação ituação do paciente no último seguimento informado: 2) 1 - Vivo com câncer 3 - Óbito por câncer 5 - Perda de seguimento 2 - Vivo, SOE 4 - Óbito, SOE Ano do diagnóstico do tumor Estadiamento TNM agrupado Topografia. Localização do tumor primário (CID-O, 2ª e 3ª edições), com Estadiamento Infantil - Grupo + Subgrupo Descrição do Estadiamento Infantil (CICI) - Grupo |
| (até dez/2011) B) SITULTSEG Si (a partir de mar/2012 ANODIAG ECGRUP TOPOGRUP 3 dígitos CICI CICIGRU CICISUBGRU | 2 - Vivo, SOE 4 - Óbito, SOE 9 - Sem informação ituação do paciente no último seguimento informado: 2) 1 - Vivo com câncer 3 - Óbito por câncer 5 - Perda de seguimento 2 - Vivo, SOE 4 - Óbito, SOE Ano do diagnóstico do tumor Estadiamento TNM agrupado Topografia. Localização do tumor primário (CID-O, 2ª e 3ª edições), com Estadiamento Infantil - Grupo + Subgrupo Descrição do Estadiamento Infantil (CICI) - Grupo Descrição do Estadiamento Infantil (CICI) - Subgrupo |
| (até dez/2011) B) SITULTSEG Si (a partir de mar/2012 ANODIAG ECGRUP TOPOGRUP 3 dígitos CICI CICIGRU CICISUBGRU FAIXAETARI A) LATERALI em pares | 2 - Vivo, SOE 4 - Óbito, SOE 9 - Sem informação ituação do paciente no último seguimento informado: 2) 1 - Vivo com câncer 3 - Óbito por câncer 5 - Perda de seguimento 2 - Vivo, SOE 4 - Óbito, SOE Ano do diagnóstico do tumor Estadiamento TNM agrupado Topografia. Localização do tumor primário (CID-O, 2ª e 3ª edições), com Estadiamento Infantil - Grupo + Subgrupo Descrição do Estadiamento Infantil (CICI) - Grupo Descrição do Estadiamento Infantil (CICI) - Subgrupo Faixa etária (de 10 em 10 anos) Localização (lateralidade) de tumores em órgãos, glândulas e cavidades em pares 1 - Direita 2 - Esquerda 3 - Indiferente Localização (lateralidade) de tumores em órgãos, glândulas e cavidades |
| (até dez/2011) B) SITULTSEG Si (a partir de mar/2012 ANODIAG ECGRUP TOPOGRUP 3 dígitos CICI CICIGRU CICISUBGRU FAIXAETARI A) LATERALI | 2 - Vivo, SOE 4 - Óbito, SOE 9 - Sem informação ituação do paciente no último seguimento informado: 2) 1 - Vivo com câncer 3 - Óbito por câncer 5 - Perda de seguimento 2 - Vivo, SOE 4 - Óbito, SOE Ano do diagnóstico do tumor Estadiamento TNM agrupado Topografia. Localização do tumor primário (CID-O, 2ª e 3ª edições), com Estadiamento Infantil - Grupo + Subgrupo Descrição do Estadiamento Infantil (CICI) - Grupo Descrição do Estadiamento Infantil (CICI) - Subgrupo Faixa etária (de 10 em 10 anos) Localização (lateralidade) de tumores em órgãos, glândulas e cavidades em pares 1 - Direita 2 - Esquerda 3 - Indiferente Localização (lateralidade) de tumores em órgãos, glândulas e cavidades |
| (até dez/2011) B) SITULTSEG Si (a partir de mar/2012 ANODIAG ECGRUP TOPOGRUP 3 dígitos CICI CICIGRU CICISUBGRU FAIXAETARI A) LATERALI em pares | 2 - Vivo, SOE 4 - Óbito, SOE 9 - Sem informação ituação do paciente no último seguimento informado: 2) 1 - Vivo com câncer 3 - Óbito por câncer 5 - Perda de seguimento 2 - Vivo, SOE 4 - Óbito, SOE Ano do diagnóstico do tumor Estadiamento TNM agrupado Topografia. Localização do tumor primário (CID-O, 2ª e 3ª edições), com Estadiamento Infantil - Grupo + Subgrupo Descrição do Estadiamento Infantil (CICI) - Grupo Descrição do Estadiamento Infantil (CICI) - Subgrupo Faixa etária (de 10 em 10 anos) Localização (lateralidade) de tumores em órgãos, glândulas e cavidades em pares 1 - Direita 2 - Esquerda 3 - Indiferente Localização (lateralidade) de tumores em órgãos, glândulas e cavidades |



CANCER OBSERVATORY

A.C.CAMARGO CANCER CENTER

2000/2020