

Table 32.1

Age-Adjusted SEER Incidence<sup>a</sup>, by Age Group and Sex  
By Adapted Classification Scheme for Tumors of Adolescents and Young Adults<sup>b</sup>  
All Races, 2009-2013

| Site  | Ages 0-14 |        | Ages 15-39 |        | Ages 40+ |        |
|---|-----------|--------|------------|--------|----------|--------|
|   | Male      | Female | Male       | Female | Male     | Female |
| All Sites Combined  | 16.9      | 15.3   | 53.6       | 87.0   | 1119.9   | 873.1  |
| 1. LEUKEMIAS  | 5.6       | 4.9    | 3.8        | 2.8    | 34.3     | 19.6   |
| 1.1 Acute lymphoid leukemia                                   | 4.4       | 3.9    | 1.2        | 0.7    | 1.3      | 1.0    |
| 1.2 Acute myeloid leukemia                                    | 0.9       | 0.8    | 1.3        | 1.3    | 10.7     | 6.9    |
| 1.3 Chronic myeloid leukemia                                  | 0.1       | 0.1    | 0.8        | 0.5    | 4.5      | 2.6    |
| 1.4 Other and unspecified leukemias                           | 0.2       | 0.1    | 0.4        | 0.3    | 17.8     | 9.1    |
| 2. LYMPHOMAS  | 2.1       | 1.1    | 8.3        | 6.7    | 54.1     | 36.7   |
| 2.1 Non-Hodgkin Lymphoma                                      | 1.4       | 0.7    | 4.8        | 3.3    | 50.5     | 34.4   |
| 2.2 Hodgkin Lymphoma  | 0.7       | 0.4    | 3.5        | 3.4    | 3.6      | 2.3    |
| 3. CNS, INTRACRANIAL, INTRASPINAL                             | 3.3       | 3.1    | 3.2        | 2.5    | 13.1     | 8.9    |
| 3.1 Astrocytoma   | 1.7       | 1.7    | 1.7        | 1.3    | 10.3     | 6.6    |
| 3.1.1 Specified low-grade astrocytic tumors                   | 1.2       | 1.2    | 0.4        | 0.4    | 0.3      | 0.3    |
| 3.1.2 Glioblastoma and anaplastic astrocytoma                 | 0.3       | 0.3    | 1.0        | 0.6    | 9.4      | 6.0    |
| 3.1.3 Astrocytoma, NOS  | 0.2       | 0.2    | 0.3        | 0.3    | 0.6      | 0.4    |
| 3.2 Other glioma  | 0.5       | 0.6    | 0.9        | 0.7    | 1.5      | 1.1    |
| 3.3 Ependymoma  | 0.3       | 0.3    | 0.2        | 0.2    | 0.3      | 0.3    |
| 3.4 Medulloblastoma and other PNET                            | 0.7       | 0.5    | 0.2        | 0.2    | 0.1      | 0.1    |
| 3.4.1 Medulloblastoma   | 0.5       | 0.3    | 0.1        | 0.1    | 0.0      | 0.0    |
| 3.4.2 Supratentorial PNET                                     | 0.2       | 0.2    | 0.1        | 0.1    | 0.0      | 0.1    |
| 3.5 Other specified intracranial and intraspinal neoplasms    | 0.1       | 0.1    | 0.1        | 0.1    | 0.2      | 0.2    |
| 3.6 Unspecified intracranial and intraspinal neoplasms        | 0.0       | 0.0    | 0.1        | 0.0    | 0.7      | 0.6    |
| 4. OSSEOUS & CHONDROMATOUS NEOPLASMS                          | 0.9       | 0.8    | 1.1        | 0.8    | 1.5      | 1.0    |
| 4.1 Osteosarcoma  | 0.4       | 0.4    | 0.4        | 0.3    | 0.3      | 0.2    |
| 4.2 Chondrosarcoma  | 0.0       | -      | 0.2        | 0.2    | 0.7      | 0.4    |
| 4.3 Ewing tumor   | 0.4       | 0.3    | 0.3        | 0.2    | 0.1      | 0.1    |
| 4.4 Other specified and unspecified bone tumors               | 0.0       | -      | 0.1        | 0.1    | 0.4      | 0.3    |
| 5. SOFT TISSUE SARCOMAS                                       | 1.0       | 0.9    | 3.2        | 2.3    | 12.7     | 9.1    |
| 5.1 Fibromatous neoplasms                                     | 0.1       | 0.1    | 0.7        | 0.8    | 2.7      | 1.6    |
| 5.2 Rhabdomyosarcoma  | 0.6       | 0.4    | 0.2        | 0.1    | 0.2      | 0.2    |
| 5.3 Other specified soft tissue sarcoma                       | 0.3       | 0.3    | 2.4        | 1.4    | 9.8      | 7.3    |
| 5.3.1 Specified soft tissue sarcoma                           | 0.2       | 0.2    | 2.0        | 1.1    | 7.1      | 5.4    |
| 5.3.1.1 Specified (excluding Kaposi sarcoma)                  | 0.2       | 0.2    | 1.0        | 1.1    | 5.6      | 5.2    |
| 5.3.1.2 Kaposi sarcoma  | -         | -      | 0.9        | 0.0    | 1.5      | 0.2    |
| 5.3.2 Unspecified soft tissue sarcoma                         | 0.1       | 0.1    | 0.4        | 0.3    | 2.7      | 1.9    |
| 6. GERM CELL AND TROPHOBLASTIC NEOPLASMS                      | 0.5       | 0.6    | 11.1       | 1.1    | 4.1      | 0.2    |
| 6.1 Germ cell and trophoblastic neoplasms of gonads           | 0.2       | 0.3    | 10.6       | 0.7    | 3.9      | 0.1    |
| 6.2 Germ cell and trophoblastic neoplasms of nongonadal sites | 0.3       | 0.3    | 0.5        | 0.3    | 0.1      | 0.1    |
| 6.2.1 Intracranial sites                                      | 0.2       | 0.1    | 0.2        | 0.0    | -        | -      |
| 6.2.2 Other nongonadal sites                                  | 0.1       | 0.2    | 0.3        | 0.3    | 0.1      | 0.1    |

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

<sup>a</sup> SEER 18 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey and Georgia excluding ATL/RG).

<sup>b</sup> Adapted from RD Barr, EJ Holowaty, JM Birch. Classification Scheme for tumors diagnosed in adolescents and young adults. Cancer. 1067; 1425-1430. (Restricted to malignant tumors and updated based on ICD-O-3 definitions).

- Statistic could not be calculated. Rate based on less than 16 cases for the time interval.

Table 32.1 - continued

Age-Adjusted SEER Incidence<sup>a</sup>, by Age Group and Sex  
By Adapted Classification Scheme for Tumors of Adolescents and Young Adults<sup>b</sup>  
All Races, 2009-2013

| Site  | Ages 0-14 |        | Ages 15-39 |        | Ages 40+ |        |
|---|-----------|--------|------------|--------|----------|--------|
|   | Male      | Female | Male       | Female | Male     | Female |
| 7. MELANOMA AND SKIN CARCINOMAS   | 0.2       | 0.2    | 5.1        | 8.6    | 68.4     | 36.2   |
| 7.1 Melanoma  | 0.1       | 0.2    | 5.1        | 8.5    | 64.1     | 34.1   |
| 7.2 Skin carcinomas   | -         | -      | 0.1        | 0.1    | 4.3      | 2.0    |
| 8. CARCINOMAS (excluding skin)  | 0.5       | 0.8    | 16.7       | 60.4   | 868.5    | 713.9  |
| 8.1 Thyroid carcinoma   | 0.2       | 0.5    | 3.7        | 17.9   | 12.8     | 32.7   |
| 8.2 Other carcinoma of head and neck  | 0.1       | 0.1    | 1.8        | 1.4    | 51.6     | 16.3   |
| 8.2.1 Nasopharyngeal carcinoma  | 0.0       | -      | 0.3        | 0.2    | 1.8      | 0.6    |
| 8.2.2 Other sites in lip, oral cavity and pharynx                               | 0.1       | 0.1    | 1.2        | 1.1    | 34.8     | 12.3   |
| 8.2.3 Nasal cavity, middle ear, sinuses,<br>larynx, other ill-defined head/neck | -         | -      | 0.3        | 0.2    | 15.0     | 3.4    |
| 8.3 Carcinoma of trachea, bronchus, and lung                                    | -         | -      | 1.0        | 1.0    | 144.6    | 105.3  |
| 8.4 Carcinoma of breast   | -         | -      | 0.0        | 20.8   | 2.6      | 269.6  |
| 8.5 Carcinoma of genitourinary tract  | 0.0       | 0.1    | 3.6        | 13.1   | 425.5    | 135.8  |
| 8.5.1 Carcinoma of kidney   | -         | -      | 2.4        | 1.7    | 43.7     | 20.9   |
| 8.5.2 Carcinoma of bladder  | -         | -      | 0.8        | 0.3    | 80.0     | 19.2   |
| 8.5.3 Carcinoma of gonads   | -         | -      | 0.0        | 1.8    | 0.0      | 22.3   |
| 8.5.4 Carcinoma of cervix and uterus  | -         | -      | -          | 8.9    | -        | 62.2   |
| 8.5.5 Carcinoma of other and ill-defined sites,<br>genitourinary tract          | -         | -      | 0.4        | 0.4    | 301.8    | 11.2   |
| 8.6 Carcinoma of gastrointestinal tract   | 0.1       | 0.1    | 6.1        | 5.6    | 214.9    | 139.6  |
| 8.6.1 Carcinoma of colon and rectum   | -         | 0.0    | 4.0        | 3.8    | 107.0    | 82.9   |
| 8.6.2 Carcinoma of stomach  | -         | -      | 0.7        | 0.7    | 21.0     | 10.3   |
| 8.6.3 Carcinoma of liver and intrahepatic bile ducts                            | 0.1       | -      | 0.5        | 0.3    | 28.2     | 9.2    |
| 8.6.4 Carcinoma of pancreas   | -         | -      | 0.4        | 0.4    | 28.6     | 21.9   |
| 8.6.5 Carcinoma of other and ill-defined sites,<br>gastrointestinal tract       | -         | -      | 0.6        | 0.4    | 30.2     | 15.2   |
| 8.7 Carcinoma of other and ill-defined sites, NOS                               | 0.1       | 0.0    | 0.4        | 0.5    | 16.5     | 14.6   |
| 8.7.1 Adrenocortical carcinoma  | -         | -      | 0.0        | 0.1    | 0.2      | 0.3    |
| 8.7.2 Carcinoma of other and ill-defined sites, NOS                             | -         | -      | 0.4        | 0.5    | 16.3     | 14.3   |
| 9. MISCELLANEOUS SPECIFIED NEOPLASMS, NOS                                       | 2.9       | 2.8    | 0.8        | 1.3    | 27.0     | 21.7   |
| 9.1 Other pediatric and embryonal tumors, NOS                                   | 2.7       | 2.8    | 0.1        | 0.1    | 0.2      | 0.2    |
| 9.1.1 Wilms tumor   | 0.7       | 0.8    | -          | -      | 0.0      | 0.0    |
| 9.1.2 Neuroblastoma   | 1.1       | 1.0    | 0.0        | -      | -        | -      |
| 9.1.3 Other pediatric and embryonal tumors, NOS                                 | 1.0       | 0.9    | 0.1        | 0.0    | 0.2      | 0.1    |
| 9.2 Other specified neoplasms, NOS  | 0.1       | 0.1    | 0.7        | 1.2    | 26.8     | 21.5   |
| 9.2.1 Paraganglioma and glomus tumors   | -         | -      | 0.0        | 0.0    | 0.1      | 0.1    |
| 9.2.2 Other specified gonadal tumors  | -         | -      | 0.0        | 0.2    | 0.0      | 0.4    |
| 9.2.3 Myeloma, mast cell, miscellaneous<br>lymphoreticular neoplasms, NOS       | 0.1       | 0.0    | 0.4        | 0.3    | 20.0     | 12.5   |
| 9.2.4 Other specified neoplasms, NOS  | -         | -      | 0.2        | 0.7    | 6.6      | 8.5    |
| 10. UNSPECIFIED MALIGNANT NEOPLASMS   | -         | -      | 0.3        | 0.5    | 36.1     | 25.9   |

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<sup>a</sup> SEER 18 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey and Georgia excluding ATL/RG).

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