Childhood Cancer in Kentucky

Eric B. Durbin, DrPH, MS
Director of Cancer Informatics
Kentucky Cancer Registry

Interim Join Committee on Health and Welfare
September 19, 2018
Overview

- Childhood cancer incidence in Kentucky
- Trends and regional burden of childhood cancer in Kentucky
- Comparisons with US incidence rates
- Childhood cancer survival in Kentucky
Childhood Cancer Incidence in Kentucky
All Sites, 2007-2016

- All Children
  - 2,146 Cases
  - 215 Cases per Year (Average)

- Males
  - 1,162 Cases
  - 116 Cases per Year (Average)

- Females
  - 984 Cases
  - 98 Cases per Year (Average)

Proportion of Cases by Sex

- Males: 54%
- Females: 46%
Childhood Cancer Incidence in Kentucky, 2007-2016

- Leukemias, 23%
- Brain and CNS Tumors, 20%
- Lymphomas, 16%
- Other Epithelial Neoplasms, 12%
- Malignant Bone Tumors, 5%
- Neuroblastomas, 5%
- Soft Tissue Sarcomas, 6%
- Germ Cell Tumors, 6%
- Retinoblastomas, 2%
- Hepatic Tumors, 2%
- Renal Tumors, 3%
- Other and Unspecified, 0%
Age-Adjusted Childhood Cancer Incidence Rates in Kentucky
All Sites, 2007-2016
Age-Adjusted Childhood Cancer Incidence Rates in Kentucky

All Sites, 2007 - 2016

By Area Development District
Age-Adjusted to the 2000 U.S. Standard Million Population

Kentucky Rate: 188.3 / per 1,000,000

- 170.8 - 180.1
- 181.2 - 189.0
- 194.6 - 205.4
- 216.7 - 279.8

All rates per 1,000,000.

© 2018 Kentucky Cancer Registry.
Age-Adjusted Childhood Cancer Incidence Rates 2005-2014

- Leukemias
- Brain and CNS Tumors*
- Other Epithelial
- Lymphomas
- Soft-Tissue Sarcomas
- Germ Cell Tumors
- Neuroblastomas
- Malignant Bone Tumors
- Renal Tumors
- Retinoblastomas
- Hepatic Tumors

All Rates per 1,000,000

*P < .05
Kentucky Ranked 4th Highest Nationally
Childhood Cancer in Kentucky Survival by Selected Sites 2009-2013

Observed 5-Year Survival

- Leukemias
- Brain and CNS Tumors
- Lymphomas
- Other Epithelial Neoplasms
Questions/Discussion

Eric B. Durbin, DrPH, MS
Director
Kentucky Cancer Registry
(859)218-3182
ericd@kcr.uky.edu
http://www.kcr.uky.edu

Data Sources