

THE CANCER BURDEN IN MICHIGAN



SELECTED STATISTICS 1993-2011

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Background

This report describes the cancer burden in Michigan using cancer morbidity and mortality data, and the human costs associated with cancer. Six cancer sites are presented: breast, cervical, colorectal, lung, prostate and ovarian cancer. Throughout this report, breast cancer statistics refer to female breast cancer only.

Presented in this report are epidemiological analyses of cancer mortality from years 1994 to 2008 and cancer incidence from 1993 to 2007 for the selected cancer sites.¹ Mortality data are from the Michigan Resident Death Files and incidence data are from the Michigan Resident Cancer Incidence File, which are both provided by the Michigan Department of Community Health, Division of Vital Records and Health Statistics.^{2,3} Michigan rates are compared with national mortality and incidence rates from the SEER Cancer Statistics Review, which is produced by the National Cancer Institute.⁴ Unless otherwise specified, all incidence and mortality rates referred to in the text are age-adjusted according to the 2000 standard U.S. population.

Also presented are data on the stage at diagnosis for cases reported in Michigan and relative survival rates for the selected cancer sites. Relative survival rates were obtained from the SEER Cancer Statistics Review.⁴

Comparisons of incidence and mortality rates amongst Michigan counties and changes in the percentage of cancer cases diagnosed at an early stage in individual counties are presented.

A summary of data on cancer-related behavioral risk factors is also included. Behavioral data for Michigan residents were obtained from three published reports: the Michigan Behavioral Risk Factor Survey (BRFSS),⁵ the Michigan Youth Risk Behavior Survey (YRBS),⁶ and the Special Cancer Behavioral Risk Factor Survey (SCBRFS).⁷ Additionally, selected measures from the Health Plan Employer Data and Information Set (HEDIS®) are reported. HEDIS data were obtained from the Quality Compass® 2010, a registered trademark of The National Committee for Quality Assurance.⁸

¹ Whenever possible, the data quoted in this report are the most recent available. Frequently, there is an 18- to 24-month interval between the time a cancer is diagnosed and the time that information is available from the Michigan Cancer Surveillance Program. However, cancer mortality data for any given year generally are available within several months after the close of that calendar year; the mortality data that are available often are more recent than the incidence data.

² Michigan Cancer Surveillance Program. (2010). *Michigan Cancer Death Public Use File 1985-2008*. Michigan Department of Community Health (MDCH), Division for Vital Records & Health Statistics.

³ Michigan Cancer Surveillance Program. (2011). *Michigan Cancer Incidence Public Use File 1985-2007*. Michigan Department of Community Health (MDCH), Division for Vital Records & Health Statistics.

⁴ National Cancer Institute. (2011). *SEER Cancer Statistics Review, 1975-2008*. Retrieved from: www.seer.cancer.gov/csr/1975_2008/index.html

⁵ Michigan Department of Community Health (2011). *Behavioral Risk Factor Survey: Preliminary Estimates for Risk Factors and Health Indicators 2010*. Retrieved July 5, 2011 at http://www.michigan.gov/documents/mdch/2010_MiBRFS_Standard_Tables_FINAL_350512_7.pdf

⁶ Michigan Department of Education (2010). *Michigan Youth Risk Behavior Survey: Detailed Results by Item 2009*. Retrieved at: <http://www.michigan.gov/yrbs>.

⁷ Michigan Public Health Institute and Michigan Department of Community Health (2010). *Special Cancer Behavioral Risk Factor Survey 2008*. Retrieved at: <http://www.michigancancer.org/Resources/SpecialMCCReports.cfm>

⁸ National Committee for Quality Assurance (NCQA). (2011). *Quality Compass; HEDIS 2010*. Retrieved at: <http://www.qualitycompass.org>.

Analyses of years of life lost due to the selected cancers are presented for Michigan and the United States. Data for the United States were taken from the SEER Cancer Statistics Review,⁴ and United States 2006 Life Tables were used to calculate years of life lost in Michigan as well as nationally.⁹

Appendix I provides additional resources that are utilized for cancer researchers. Appendix II includes charts of incidence and mortality rates by county.

An electronic copy of the full report is available on the Michigan Cancer Consortium (MCC) website at: <http://www.michigancancer.org/WhatWeDo/TheCancerBurdenMichiganSelectedStatistics.cfm>

⁹ National Center for Health Statistics. (2010). *United States Life Tables, 2006*; National Vital Statistics Reports; Vol 58 No 21. Retrieved at: http://www.cdc.gov/nchs/products/life_tables.htm.