Maine

Cancer Surveillance Plan

2017

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2017 Maine Cancer Surveillance Plan

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LIST OF ACRONYMS

BMI: Body mass index

BRFSS: Behavioral Risk Factor Surveillance System

Cancer Registry: Maine Cancer Registry

CAT scan: Computerized axial tomography scan

CDC: U.S. Centers for Disease Control and Prevention

CINA: Cancer in North America

CNS: Central Nervous System

Comp Cancer: Maine Comprehensive Cancer Program

CT scan: Computed tomography scan

FIT: Fecal immunochemical test

FOBT: Fecal occult blood test

HPV: Human Papillomavirus

Maine CDC: Maine Center for Disease Control and Prevention

MCR: Maine Cancer Registry

MIP: Maine Immunization Program

MIYHS: Maine Integrated Youth Health Survey

NAACCR: North American Association of Central Cancer Registries

NCHS: National Center for Health Statistics

NIS: National Immunization Survey

PAC 1305: Prevention and Control Grant 1305

PTM: Partnership for a Tobacco-free Maine

PSA: Protein-Specific Antigen

SAS: Statistical Analysis System

SEER*Stat: Surveillance, Epidemiology, and End Results statistical software

SHNAPP: Shared Health Needs Assessment and Planning Process

INTRODUCTION

Cancer is the leading cause of death in Maine. Each year, more than 8,000 Mainers are diagnosed with new cases of cancer, and more than 3,000 die due to cancer.[1] Maine's cancer incidence and mortality rates are significantly higher than national rates.[1] The Maine Center for Disease Control and Prevention's (Maine CDC's) Comprehensive Cancer Control Program is committed to reducing the burden of cancer in Maine by promoting healthy behaviors, improving access to preventive services and quality therapeutic cancer care, reducing cancer disparities, and fostering statewide partnerships that enable a synergistic approach to reducing the physical, emotional and economic impact of cancer in Maine. In order to be most effective in this mission, timely and relevant public health surveillance data are needed to understand the patterns of cancer, different types of cancer, screening and treatment, and risk factors in the state. This surveillance plan presents the revised framework of indicators that we will routinely analyze, interpret, and use for the Maine CDC's cancer control program planning, implementation, and evaluation. This is the second edition of the Maine Cancer Surveillance Plan that details indicators and planned analyses in and after 2017.

METHODOLOGY

This surveillance plan is the product of a year-long collaboration between staff in Maine CDC's cancer programs (Comprehensive Cancer Control Program, Maine Cancer Registry, Maine Breast and Cervical Health Program) and epidemiology staff. The process began by reviewing existing indicators in the 2013 Cancer Surveillance Plan along with existing documents containing surveillance data, including the 2016-2020 Maine Cancer Plan, the 2014 Maine Cancer Surveillance Report, and the 2016 Annual Cancer Report.[1,2,3] As part of this review, the working group identified essential cancer surveillance indicators to continue analyzing by topic areas that assess four major components of cancer surveillance: 1) behavioral and other risk factors, 2) cancer screening, 3) new cases of cancer (incidence), stage at diagnosis, cancer survivorship (morbidity) and 4) cancer-related deaths (mortality). Selected indicators were voted upon by respective Maine CDC cancer program staff and scored based on the indicator's relevance, accuracy as a performance measure, and concordance with national recommendations. Where appropriate, indicator definitions from the previous 2013 Cancer Surveillance Plan were modified to align with national recommendations or reflect changes in data availability. Behavioral risk factors were examined in both adults and youth since the development of unhealthy behaviors often occurs at an early age.

Available data sources were identified for each of the cancer indicators. Incidence and stage at diagnosis data for Maine are captured on an ongoing basis by the Maine Cancer Registry; incidence data for the U.S. is included in the national data file, Cancer in North America (CINA) Plus Standard File provided by the North American Association of Central Cancer Registries (NAACCR). Mortality data are routinely collected through death certificates; the national mortality database provided by the National Center for Health Statistics is used by Maine's cancer programs for mortality analyses. Data on cancer survivorship, cancer screening, and environmental risk factors are collected by the Maine Behavioral Risk Factor Surveillance System (BRFSS). Data on behavioral risk factors are collected by BRFSS for adults and the Maine Integrated Youth Health Survey (MIYHS) for youth. Additionally, Maine CDC Immunization Program provides public data on HPV immunization adherence to Maine cancer programs.

Incidence and mortality data will be presented as crude and age-adjusted estimates standardized using the 2000 U.S. Standard population. National and state-level estimates will be presented. State-level

estimates will be analyzed by year (trend over time), sex, race, and geographical area of residence (county and/or public health district). Stage at diagnosis and cancer mortality will be analyzed by age groupings, specific to each cancer type. Cancer incidence and mortality data will be analyzed using SEER*Stat.

Behavioral risk factors among adults will be analyzed by demographic factors (namely, sex, age, education, household income, current depression, any depression or anxiety, insurance status, rurality, race, ethnicity, and sexual orientation), as well as by year (trend over time) and geography (county and public health district). Behavioral risk factors among youth (middle school and high school students) will be analyzed by demographic factors (namely, sex, age, grade level, race, ethnicity, sexual orientation) as well as by year (trend over time) and geography (county and public health district). BRFSS and MIYHS data will be analyzed using SAS and methods to appropriately weight and analyze the data given the complex sample designs of these surveys.

This surveillance plan outlines the selected cancer indicators and details how each indicator will be analyzed to capture a broad picture of cancer incidence and burden, including how behavioral factors and environmental exposures contribute to cancer in the state. This surveillance plan serves as a 'living document' that will be modified according to changes in national performance measures and guidelines and the needs of Maine CDC cancer programs.

LIST OF SELECTED CANCER INDICATORS

BEHAVIORAL AND OTHER RISK FACTORS

Adult, any tobacco use
Description: Percentage of Maine adults ages 18 years and over who report currently using any tobacco products (cigarettes, smokeless tobacco, or other tobacco products).
Numerator: Weighted number of Maine adults (ages 18 years and over) who currently used any of the following: cigarette, smokeless tobacco, or other tobacco products (excluding e-cigarettes).
Denominator: Weighted number of Maine adults ages 18 years and over who responded to applicable questions.
Data source: BRFSS
Variable name: anytobac11_14 (_RFSMOK2, CIGARNOW, LTL_CIGR, CHEW, FLV_CIGA, LRG_CIG)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Demographics (sex, age, education, income, health insurance type, current depression, any depression or anxiety, rurality, veteran status); Race, Ethnicity, and Sexual Orientation; Geography (county and public health district); Trend (year)
Responsible Program: PTM (Measure 2.21)
Other Use: SHNAPP, Cancer Plan

Adult, obese
Description: Percentage of Maine adults ages 18 years and over who were obese based on a calculation of body mass index (BMI) from self-reported weight and height.
Numerator: Weighted number of Maine adults ages 18 years and over who were obese (BMI $\geq$ 30.0 mg/k^2) based on self-reported weight and height.
Denominator: Weighted number of Maine adults ages 18 years and over who reported valid weight and height.
Data source: BRFSS
Data availability: Annual
Variable Name: obese (_BMI5CAT)
Unit of Analysis: Individual
Stratification: Demographics (sex, age, education, income, health insurance type, current depression, any depression or anxiety, rurality); Race, Ethnicity, and Sexual Orientation; Geography (county and public health district); Trend (year)
Responsible Program: PAC 1305
Other Use: SHNAPP, Cancer Plan, Healthy Maine

Adult, overweight
Description: Percentage of Maine adults ages 18 years and over who were overweight based on a calculation of body mass index (BMI) from self-reported weight and height.
Numerator: Weighted number of Maine adults ages 18 years and over who were overweight (BMI 25.0-29.9 mg/k^2) based on self-reported weight and height.
Denominator: Weighted number of Maine adults ages 18 years and over who reported valid weight and height.
Data source: BRFSS
Variable Name: overwt (_BMI5CAT)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Demographics (sex, age, education, income, health insurance type, current depression, any depression or anxiety, rurality); Race, Ethnicity, and Sexual Orientation; Geography (county and public health district); Trend (year)

Responsible Program: PAC 1305
Other Use: SHNAPP, Cancer Plan, Healthy Maine

Adult, recommended physical activity (≥150 minutes of aerobic exercise per week)
Description: Percentage of Maine adults ages 18 years and over who reported they participated in 150 minutes of physical activity per week.
Numerator: Weighted number of Maine adults ages 18 years and over who report engaging in the recommended physical activity per week (at least 150 minutes per week of moderate-intensity physical activity, or at least 75 minutes per week of vigorous-intensity physical activity, or a combination of moderate-intensity and vigorous-intensity physical activity (multiplied by two) totaling at least 150 minutes per week).
Denominator: Weighted number of Maine adults ages 18 years and over who responded to the physical activity questions.
Data source: BRFSS
Variable Name: recpa (_PAINDEX)
Data availability: Biennial (odd years)
Unit of Analysis: Individual
Stratification: Demographics (sex, age, education, income, health insurance type, current depression, any depression or anxiety, rurality); Race, Ethnicity, and Sexual Orientation; Geography (county and public health district); Trend (year)
Responsible Program: PAC 1305, Performance Measure m_2.4.04
Other Use: SHNAPP

Environmental, radon testing of indoor air
Description: Percentage of Maine households that reported household air was tested for radon.
Numerator: Weighted number of households that responded 'Yes' to the question of whether household air was tested for radon.
Denominator: Weighted number of Maine households that responded to the question of whether household air was tested for radon.
Data source: BRFSS
Variable Name: radontest (RDN_TEST)
Data availability: When added as a state-added question (2011-2017)
Unit of Analysis: Household
Stratification: Demographics (income, rurality); home ownership; Geography (county and public health district); Trend (year)
Responsible Program: Comp Cancer
Other Use: Cancer Plan, shared with Environmental Health

Environmental, high levels of radon in indoor air
Description: Percentage of Maine households that reported radon levels in household air was tested and was above normal when tested.
Numerator: Weighted number of Maine households that responded 'Yes' to the question of whether radon levels in household air was above normal when tested.
Denominator: Weighted number of Maine households that responded to the question of whether radon levels in household air was above normal when tested.
Data source: BRFSS
Variable Name: radonlev (RDN_LEVEL)
Data availability: When added as a state-added question (2011-2017)
Unit of Analysis: Household
Stratification: Geography (county and public health district); Trend (year)
Responsible Program: Comp Cancer
Other Use: SHNAPP, Cancer Plan, Healthy Maine, shared with Environmental Health

Environmental, high levels of radon in indoor air mitigated
Description: Percentage of Maine households with above normal radon levels in household air that reported radon levels were reduced/fixed.
Numerator: Weighted number of Maine households that responded 'Yes' to the question of whether above normal radon levels in household air was reduced/fixed.
Denominator: Weighted number of Maine households with above normal radon levels that responded to the question of whether above normal radon levels in household air was reduced/fixed.
Data source: BRFSS
Variable Name: radonfix (RDN_FIXD)
Data availability: When added as a state-added question (2011-2017)
Unit of Analysis: Household
Stratification: Trend (year)
Responsible Program: Comp Cancer
Other Use: Shared with Environmental Health

Youth, any tobacco use
Description: Percentage of Maine youth (middle or high school students) who reported use of any tobacco product in the past 30 days.
Any tobacco product: smoked cigarettes or cigars or used chewing tobacco, snuff, or dip.
Numerator: Weighted number of Maine youth (middle or high school students) who reported any tobacco use in the past 30 days.
Denominator: Weighted number of Maine youth (middle or high school students) who responded to questions about use of any type of tobacco product in the past 30 days.
Data source: MIYHS
Variable Name: hnanytob; mnanytob
Data availability: Biennial (odd years)
Unit of Analysis: Individual
Stratification: Age and Sex (age, grade by sex); Race and Sexual Orientation (race and sexual orientation by sex); Geography (county and public health district)
Responsible Program: PTM (from MIYHS detailed reports)
Other Use: Cancer Plan

Youth, cigarette smoking
Description: Percentage of Maine youth (middle or high school students) who reported smoking cigarettes at least once in the past 30 days.
Numerator: Weighted number of Maine youth (middle or high school students) who reported cigarette smoking in the past 30 days.
Denominator: Weighted number of Maine youth (middle or high school students) who responded to questions about cigarette smoking in the past 30 days.
Data source: MIYHS
Variable Name: hn48; mn29
Data availability: Biennial (odd years)
Unit of Analysis: Individual
Stratification: Age and Sex (age, grade by sex); Race and Sexual Orientation (race and sexual orientation by sex); Geography (county and public health district)
Responsible Program: PTM (from MIYHS detailed reports)
Other Use: Cancer Plan, Healthy Maine

Youth, human papillomavirus (HPV) immunization adherence
Description: HPV Immunization Rate Assessment of youth who have received the standard HPV vaccination dose series.
Numerator: Number of youth aged 13-18 years immunized fully for HPV, 2 or 3 doses depending on age and interval requirements (based on immunization registry).
Denominator: Number of youth aged 13-18 years in the immunization registry.

Data source: State of Maine Immunization Registry, ImmPact: http://www.maine.gov/dhhs/mecdc/infectious-disease/immunization/publications/index.shtml
Data availability: Quarterly
Unit of Analysis: Individual
Stratification: Sex, Geography
Responsible Program: Maine CDC Immunization Program
Other Use: Cancer Plan

Youth, obese
Description: Percentage of Maine youth (middle or high school students) who were obese (≥95th percentile for body mass index [BMI], by age and sex) based on self-reported weight and height.
Numerator: Weighted number of Maine youth (middle or high school students) who were obese according to self-reported weight and height.
Denominator: Weighted number of Maine youth (middle or high school students) who reported valid weight and height.
Data source: MIYHS
Variable Name: hnobese; mnobese
Data availability: Biennial (odd years)
Unit of Analysis: Individual
Stratification: Age and Sex (age, grade by sex); Race and Sexual Orientation (race and sexual orientation by sex); Geography (county and public health district)
Responsible Program: PAC 1305 (from MIYHS detailed reports)
Other Use: Cancer Plan, Healthy Maine

Youth, overweight
Description: Percentage of Maine youth (middle or high school students) who were overweight (at or above the 85th percentile but below the 95th percentile for body mass index [BMI], by age and sex) from self-reported weight and height.
Numerator: Weighted number of Maine youth (middle or high school students) who were overweight according to self-reported weight and height.
Denominator: Weighted number of Maine youth (middle or high school students) who reported valid weight and height.
Data source: MIYHS
Variable Name: hnowt; mnowt
Data availability: Biennial (odd years)
Unit of Analysis: Individual
Stratification: Age and Sex (age, grade by sex); Race and Sexual Orientation (race and sexual orientation by sex); Geography (county and public health district)
Responsible Program: PAC 1305 (from MIYHS detailed reports)
Other Use: Cancer Plan

Youth, physical activity (≥60 minutes of physical activity daily)
Description: Percentage of Maine youth (middle or high school students) who reported being physically active for ≥60 minutes per day on all of the past seven days.
Numerator: Weighted number of Maine youth (middle or high school students) who reported being physically active for ≥60 minutes per day on all of the past seven days.
Denominator: Weighted number of Maine youth (middle or high school students) who responded to the question about being physically active for ≥60 minutes per day during the past seven days.
Data source: MIYHS
Variable Name: hn209; mn161
Data availability: Biennial (odd years)
Unit of Analysis: Individual
Stratification: Age and Sex (age, grade by sex); Race and Sexual Orientation (race and sexual orientation by sex); Geography (county and public health district)

Responsible Program: PAC 1305 Performance Measure m_2.4.04 (from MIYHS detailed reports)
Other Use: N/A

Youth, sunscreen use
Description: Percentage of Maine youth (middle or high school students) who reported using a sunscreen with an SPF of 15 or higher 'Always' or 'Most of the time' when outside on a sunny day for more than an hour.
Numerator: Weighted number of Maine youth (middle or high school students) who responded 'Most of the time' or 'Always' to the question about using a sunscreen with an SPF of 15 or higher when outside on a sunny day for more than an hour.
Denominator: Weighted number of Maine youth (middle or high school students) who responded to the question about using a sunscreen with an SPF of 15 or higher when outside on a sunny day for more than an hour.
Data source: MIYHS
Variable Name: hn174a; mn133a
Data availability: Biennial (odd years)
Unit of Analysis: Individual
Stratification: Age and Sex (age, grade by sex); Race and Sexual Orientation (race and sexual orientation by sex); Geography (county and public health district)
Responsible Program: Comp Cancer (from MIYHS detailed reports)
Other Use: Cancer Plan

Youth, use of artificial sources of ultraviolet light for tanning (indoor tanning)
Description: Percentage of Maine youth (middle or high school students) who reported using artificial sources of ultraviolet light for tanning at least one time in the past 12 months. Artificial sources: sunlamp, sunbed, or tanning booth.
Numerator: Weighted number of Maine youth (middle or high school students) who reported using artificial sources of ultraviolet light for tanning at least one time in the past 12 months.
Denominator: Weighted number of Maine youth (middle or high school students) responded to question about using artificial sources of ultraviolet light for tanning at least one time in the past 12 months.
Data source: MIYHS
Data availability: Biennial (odd years)
Variable Name: hn176a; mn135a
Unit of Analysis: Individual
Stratification: Age and Sex (age, grade by sex); Race and Sexual Orientation (race and sexual orientation by sex); Geography (county and public health district)
Responsible Program: Comp Cancer (from MIYHS detailed reports)
Other Use: Cancer Plan

CANCER SCREENING

Breast cancer screening among females 40 years and over, mammogram
Description: Percentage of Maine females ages 40 years and over who reported they have had a mammogram in the past two years.
Numerator: Weighted number of Maine women ages 40-44, 45-49, 50 years and over whose response to the question of how long since last mammogram was in the past two years.
Denominator: Weighted number of Maine women ages 40-44, 45-49, 50 years and over who responded to the question of how long since last had a mammogram.
Data source: BRFSS
Variable Name: mam40 (_RFMAM2Y, AGE)
Data availability: Biennial (even years)
Unit of Analysis: Individual

Stratification: Trend (year)
Responsible Program: Comp Cancer
Other Use: SHNAPP

Breast cancer screening among females 50-74 years, mammogram
Description: Percentage of Maine females ages 50-74 years who reported they have had a mammogram in the past two years.
Numerator: Weighted number of Maine women ages 50-74 years whose response to the question of how long since last mammogram was in the past two years.
Denominator: Weighted number of Maine women ages 50-74 years who responded to the question of how long since last had a mammogram.
Data source: BRFSS
Variable name: mam50 (_MAM502Y, AGE)
Data availability: Biennial (even years)
Unit of Analysis: Individual
Stratification: Demographics (sex, age, education, income, health insurance type, current depression, any depression or anxiety, rurality); Race, Ethnicity, and Sexual Orientation; Geography (county and public health district); Trend (year)
Responsible Program: Comp Cancer
Other Use: SHNAPP
Special Note: Analyses by age will be presented as follows: 50-54, 55-59, 60-64, 65-69, 70-74 years.

Cervical cancer screening among females ages 21-65 years, Pap test
Description: Percentage of Maine females ages 21-65 years with an intact cervix who reported that they have had a Pap test in the past 3 years.
Numerator: Weighted number of Maine women ages 21-65 years with an intact cervix whose response to the question of how long since last Pap test was in the past three years.
Denominator: Weighted number of Maine women ages 21-65 years with an intact cervix who responded to the question about time since last had a Pap test.
Data source: BRFSS
Variable name: pap2165 (AGE, _RFPAP3Y)
Data availability: Biennial (even years)
Unit of Analysis: Individual
Stratification: Demographics (sex, age, education, income, health insurance type, current depression, any depression or anxiety, rurality); Race, Ethnicity, and Sexual Orientation; Geography (county and public health district); Trend (year)
Responsible Program: Comp Cancer
Other Use: SHNAPP
Special Note: Analyses by age will be presented as follows: 21-24, 25-34, 35-44, 45-54, 55-65 years.

Colorectal cancer screening among adults ages 50-75 years, up-to-date combined
Description: Percentage of Maine adults ages 50-75 years who reported that they had a home blood stool test (e.g., FOBT or FIT) within 1 year OR sigmoidoscopy within 5 years and home blood stool test within 3 years OR colonoscopy within 10 years.
Numerator: Weighted number of Maine adults ages 50-75 who reported they had a home blood stool test (e.g., FOBT or FIT) within 1 year OR sigmoidoscopy within 5 years and home blood stool test within 3 years OR colonoscopy within 10 years.
Denominator: Weighted number of Maine adults ages 50-75 years who responded to the questions about colorectal cancer screening.
Data source: BRFSS
Variable Name: colrect (AGE, BLDSTOOL, LSTBLD_C, HADSIGM, HADSGCOL, LSTSGM_C)
Data availability: Biennial (even years); may sometimes be included as a state-added question in odd years (2007, 2009)
Unit of Analysis: Individual

Stratification: Demographics (sex, age, education, income, health insurance type, current depression, any depression or anxiety, rurality); Race, Ethnicity, and Sexual Orientation; Geography (county and public health district); Trend (year)
Responsible Program: Comp Cancer
Other Use: SHNAPP
Special Note: Analyses by age will be presented as follows: 50-54, 55-59, 60-64, 65-69, 70-75 years.

Colorectal cancer screening among adults ages 50-75 years, sigmoidoscopy and blood stool test
Description: Percentage of Maine adults ages 50-75 years who reported that they have had a sigmoidoscopy in the past 5 years and a home blood stool test in the past 3 years.
Numerator: Weighted number of Maine adults ages 50-75 years who reported having a sigmoidoscopy in the past 5 years and a blood stool test in the past 3 years.
Denominator: Weighted number of Maine adults ages 50-75 years who responded to the question about how long since last sigmoidoscopy and question about how long since last blood stool test.
Data source: BRFSS
Variable Name: sigfobt (AGE, BLDSTOOL, LSTBLD_C, HADSIGM, HADSC)
Data availability: Biennial (even years); may sometimes be included as a state-added question in odd years (2007, 2009)
Unit of Analysis: Individual
Stratification: Demographics (sex, age, education, income, health insurance type, current depression, any depression or anxiety, rurality); Race, Ethnicity, and Sexual Orientation; Geography (county and public health district); Trend (year)
Responsible Program: Comp Cancer
Other Use: N/A
Special Note: Analyses by age will be presented as follows: 50-54, 55-59, 60-64, 65-69, 70-75 years.

Colorectal cancer screening among adults aged 50-75 years, blood stool test
Description: Percentage of Maine adults ages 50-75 years who reported that they had a home blood stool test in the past year.
Numerator: Weighted number of Maine adults ages 50-75 years who reported having a home blood stool test in the past year.
Denominator: Weighted number of Maine adults ages 50-75 years who responded to the questions about home blood stool testing.
Data source: BRFSS
Variable Name: fobt1 (AGE, BLDSTOOL, LSTBLD_C)
Data availability: Biennial (even years); may sometimes be included as a state-added question in odd years (2007, 2009)
Unit of Analysis: Individual
Stratification: Demographics (sex, age, education, income, health insurance type, current depression, any depression or anxiety, rurality); Race, Ethnicity, and Sexual Orientation; Geography (county and public health district); Trend (year)
Responsible Program: Comp Cancer
Other Use: N/A
Special Note: Analyses by age will be presented as follows: 50-54, 55-59, 60-64, 65-69, 70-75 years.

Colorectal cancer screening among adults aged 50-75, colonoscopy
Description: Percentage of Maine adults ages 50-75 years who reported that they had a colonoscopy in the past 10 years.
Numerator: Weighted number of Maine adults ages 50-75 years who reported having a colonoscopy in the past 10 years.
Denominator: Weighted number of Maine adults ages 50-75 years who responded to the questions about how long since last colonoscopy.
Data source: BRFSS
Variable name: colon10 (AGE, HADSGCOL, HADSIGM, LSTSGM_C)

Data availability: Biennial (even years); may sometimes be included as a state-added question in odd years (2007, 2009)
Unit of Analysis: Individual
Stratification: Demographics (sex, age, education, income, health insurance type, current depression, any depression or anxiety, rurality); Race, Ethnicity, and Sexual Orientation; Geography (county and public health district); Trend (year)
Responsible Program: Comp Cancer
Other Use: N/A
Special Note: Analyses by age will be presented as follows: 50-54, 55-59, 60-64, 65-69, 70-75 years.

Lung cancer screening among adults ages 55-80 with a history of heavy smoking
Description: Percentage of Maine adults ages 55-80 years with a history of smoking who reported they have had a lung CT or CAT scan within the past year.
Numerator: Weighted number of Maine adults ages 55-80 years who answered 'Yes' to the question about having a lung CT or CAT scan within the past year and report a 30 pack-year smoking history and report current smoking or former smoking within the past 15 years.
Denominator: Weighted number of Maine adults ages 55-80 years who responded to questions about having a lung CT or CAT scan within the past year and about smoking history.
Data source: BRFSS
Variable Name: Variable will be created once lung cancer screening module data becomes available.
Data availability: Optional module as funded (2017 & 2018)
Unit of Analysis: Individual
Stratification: Demographics (sex, age, education, income, health insurance type, current depression, any depression or anxiety, rurality); Race, Ethnicity, and Sexual Orientation; Geography (county and public health district); Trend (year)
Note: Indicator data analysis by the above stratifiers will be attempted when 2017 BRFSS data is avaialble, but some sub-analyses may not be possible due to small numbers using one year of data.
Responsible Program: Comp Cancer
Other Use: N/A

Prostate cancer screening among males ages 50 years and over, prostate-specific antigen (PSA) test
Description: Percentage of Maine males ages 50 years and over who reported they have had a PSA test within the past two years.
Numerator: Weighted number of Maine men ages 50 years and over who answered 'Yes' to the question about having an PSA test within the past two years.
Denominator: Weighted number of Maine men ages 50 years and over who responded to questions about how long since PSA testing.
Data source: BRFSS
Variable Name: psa_2y (AGE, PSATEST, PSATIME)
Data availability: Biennial (even years)
Unit of Analysis: Individual
Stratification: Geography (county and public health district); Trend (year)
Responsible Program: Comp Cancer
Other Use: N/A

MORBIDITY

CANCER INCIDENCE

For all cancer incidence definitions according to SEER site recode ICD-0-3/WHO 2008 definitions, please see the appendix at the end of this document.

All cancers, incidence
Description: All cancer incidence
Numerator: Number of incident cases of all cancers combined among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison; Age; Geography (county and public health district); Trend (year)
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: SHNAPP
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races. Trend data is in chart form (not table). Age analysis presents 5-year increments starting at age 35 years. Geographic and age analysis uses most recent 3-years of data.

Bladder cancer, incidence
Description: Bladder cancer incidence or urinary bladder cancer incidence
Numerator: Number of incident bladder cancer cases among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison; Age; Geography (county and public health district); Trend by Sex (year)
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), and age-adjusted cancer incidence rates by site (females) tables. Trend data is in chart form (with table below). Age analysis presents 5-year increments starting at age 35 years. Geographic analysis uses 5-years of most recent data.
Also included in tobacco-related cancer measures.

Brain and other CNS (central nervous system) tumors, incidence
Description: Brain and other CNS (central nervous system) tumors incidence
Numerator: Number of incident brain and other central nervous system cases among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison; Geography (county and public health district)
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A

Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), and age-adjusted cancer incidence rates by site (females) tables. Geographic analysis uses 5-years of most recent data.

Breast cancer (female), incidence
Description: Female breast cancer incidence
Numerator: Number of incident female breast cancer cases among Maine female residents
Denominator: Maine female population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; Age; Geography (county and public health district); Trend (year)
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: SHNAPP
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (females), and age-adjusted obesity-related cancers: incidence by anatomic site (post-menopausal group only) tables. Geographic and age analysis uses most recent 3-years of data. Age analysis presents 5-year age groups starting at age 25. Trend data is in chart form (not table).
Also included in obesity-related cancer measures for post-menopausal age group only.

Cervix uteri (cervical) cancer, incidence
Description: Cervix uteri cancer incidence
Numerator: Number of incident cervix uteri cancer cases among Maine female residents
Denominator: Maine female population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; Trend (year)
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: SHNAPP
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site and age-adjusted cancer incidence rates by site (females) tables. Trend data is in chart form (not table).
Also included in tobacco-related cancer measures.

Colon and rectum (colorectal) cancer, incidence
Description: Colorectal cancer incidence
Numerator: Number of incident colorectal cancer cases among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison; Age; Geography (county and public health district); Trend (year)
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: SHNAPP
Special Notes: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), age-adjusted cancer incidence rates by site (females), and age-adjusted obesity-related cancers: incidence by

anatomic site tables. Trend data is in chart and table form. Age analysis presents 5-year age groups starting at age 35. Geographic and age analysis uses most recent 3-years of data.
Also included in tobacco-related cancer and obesity-related cancer measures.

Esophagus cancer, incidence
Description: Esophagus cancer incidence
Numerator: Number of incident esophagus cancer cases among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Notes: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), and age-adjusted cancer incidence rates by site (females) tables.
Also included in tobacco-related cancer measures & esophageal adenocarcinoma is included in obesity-related cancer measures by sex and with national comparisons.

Esophagus, adenocarcinoma only, incidence
Description: Esophageal adenocarcinoma incidence
Numerator: Number of incident esophageal adenocarcinoma cases among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted obesity-related cancers: incidence by anatomic site table.

Hodgkin lymphoma, incidence
Description: Hodgkin lymphoma incidence
Numerator: Number of incident Hodgkin lymphoma cases among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), and age-adjusted cancer incidence rates by site (females) tables.

Kidney and renal pelvis (kidney) cancer, incidence
Description: Kidney incidence
Numerator: Number of incident kidney cancer cases among Maine residents
Denominator: Maine population

Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Notes: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), age-adjusted cancer incidence rates by site (females), and age-adjusted obesity-related cancers: incidence by anatomic site tables.
Also included in tobacco-related cancer and obesity-related cancer measures.

Larynx cancer, incidence
Description: Larynx cancer incidence
Numerator: Number of incident larynx cancer cases among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Notes: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), and age-adjusted cancer incidence rates by site (females) tables.

Leukemia, incidence
Description: Leukemia incidence
Numerator: Number of incident leukemia cases among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), and age-adjusted cancer incidence rates by site (females) tables.

Liver and intrahepatic bile duct (liver) cancer, incidence
Description: Liver cancer incidence
Numerator: Number of incident liver cancer cases among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A

Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), and age-adjusted cancer incidence rates by site (females) tables.
Also included in tobacco-related cancer measure.

Lung and bronchus (lung) cancer, incidence
Description: Lung cancer incidence
Numerator: Number of incident lung cancer cases among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Age; Sex; National comparison; Geography (county and public health district); Trend (year)
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: SHNAPP
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), and age-adjusted cancer incidence rates by site (females) tables. Age analysis presents 5-year age groups starting at age 40. Age and geographic analyses use most recent 3-years of data.

Melanoma of the skin (melanoma), incidence
Description: Melanoma incidence
Numerator: Number of incident melanoma cases among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: SHNAPP
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), and age-adjusted cancer incidence rates by site (females) tables.

Mesothelioma, incidence
Description: Mesothelioma incidence
Numerator: Number of incident mesothelioma cases among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: SHNAPP
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), and age-adjusted cancer incidence rates by site (females) tables.

Myeloma, incidence
Description: Myeloma incidence
Numerator: Number of incident myeloma cases among Maine residents

Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), and age-adjusted cancer incidence rates by site (females) tables.

Non-Hodgkin lymphoma, incidence
Description: Non-Hodgkin lymphoma incidence
Numerator: Number of incident Non-Hodgkin lymphoma cases among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), and age-adjusted cancer incidence rates by site (females) tables.

Oral cavity and pharynx cancer, incidence
Description: Oral cavity and pharynx cancer incidence
Numerator: Number of incident oral cavity and pharynx cancer cases among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), and age-adjusted cancer incidence rates by site (females) tables.
Selected sites are included in tobacco-related cancer & HPV-associated cancer measures.

Ovarian cancer, incidence
Description: Ovarian cancer incidence
Numerator: Number of incident ovarian cancer cases among Maine female residents
Denominator: Maine female population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A

Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site and age-adjusted cancer incidence rates by site (females) tables.

Pancreatic cancer, incidence
Description: Pancreatic cancer incidence
Numerator: Number of incident pancreatic cancer cases among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), age-adjusted cancer incidence rates by site (females), and age-adjusted obesity-related cancers: incidence by anatomic site tables.
Also included in obesity-related cancer measures.

Prostate cancer, incidence
Description: Prostate cancer incidence
Numerator: Number of incident prostate cancer cases among Maine male residents
Denominator: Maine male population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Stratification: National comparison; Age; Geography (county and public health district); Trend (year)
Unit of Analysis: Individual
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: SHNAPP
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site and age-adjusted cancer incidence rates by site (males) tables. Age analyses present 5-year age groups and start at age 40. Age and geographic analyses uses most recent 3-years of data.

Stomach cancer, incidence
Description: Stomach cancer incidence
Numerator: Number of incident stomach cancer cases among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), and age-adjusted cancer incidence rates by site (females) tables.
Also included in tobacco-related cancer measures.

Testis (testicular) cancer, incidence
Description: Testicular cancer incidence
Numerator: Number of incident testicular cancer cases among Maine male residents
Denominator: Maine male population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site and age-adjusted cancer incidence rates by site (males) tables.

Thyroid cancer, incidence
Description: Thyroid cancer incidence
Numerator: Number of incident thyroid cancer cases among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Sex; National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), and age-adjusted cancer incidence rates by site (females) tables.

Uterus (Corpus uteri and uterus, NOS) cancer, incidence
Description: Uterus (Corpus uteri and uterus, NOS [not otherwise specified]) cancer incidence
Numerator: Number of incident uterus (Corpus uteri and uterus, NOS) cancer cases among Maine female residents
Denominator: Maine female population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Notes: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (females), and age-adjusted obesity-related cancers: incidence by anatomic site tables.
Also included in obesity-related cancer measures

RISK-FACTOR RELATED CANCERS

HPV-associated cancers, incidence
Description: HPV-associated cancers incidence
Numerator: Number of incident HPV-associated cancer cases among Maine residents
Denominator: Maine population

Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; Sex
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Notes: National comparison presents rates for Maine All Races, U.S. Whites, and. U.S. All Races. HPV-associated cancers included cancers of the oral cavity and oropharynx (limited sites including base of tongue, tonsils and other oropharynx), anus, rectum, penis, cervix, vagina, and vulva in 2013. The definition is subject to change as new evidence develops.

Obesity-related cancers, incidence
Description: Obesity-related cancers incidence
Numerator: Number of incident obesity-related cancer cases among Maine residents.
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; sex
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and. U.S. All Races. Obesity-related cancers included adenocarcinoma of the esophagus, and cancers of the pancreas, colon, rectum, kidney, renal pelvis, uterus (Corpus uteri and uterus, NOS), and breast (postmenopausal women) in 2013. The definition is subject to change as new evidence develops.

Tobacco-related cancers (excluding lung and bronchus), incidence
Description: Tobacco-related cancers incidence (excluding lung cancer)
Numerator: Number of incident tobacco-related cancer (excluding lung cancer) cases among Maine residents
Denominator: Maine population
Data source: Maine Incidence: Maine Cancer Registry; National Incidence: CINA (NAACCR Cancer in North America Plus Standard File)
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; Sex; Age; County and District; trend (year)
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison presents rates for Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer incidence rates by site, age-adjusted cancer incidence rates by site (males), and age-adjusted cancer incidence rates by site (females) tables. Age is presented in 5-year age groups, starting at age 25. Age and geographic analyses use most recent 3-years of data. Tobacco-related cancer cases excluding lung and bronchus cancers include laryngeal, oral cavity and pharynx, esophageal, stomach, pancreatic, kidney and renal pelvis, bladder, cervical, colon and rectum, liver and acute myeloid leukemia in 2013. The definition is subject to change as new evidence develops.

Note for all staging tables, 3-years of data will be used for both single point-in-time tables and trend tables.

Breast cancer (female), staging
Description: Percentage of female breast cancer incidence by stage at diagnosis (e.g., in situ, localized, late stage [regional and distant], unknown)
Numerator: Number of incident cases of female breast cancer among Maine residents or U.S. Whites divided into stage categories at diagnosis (e.g., in situ, localized, late stage [regional and distant], unknown)
Denominator: Number of incident cases of female breast cancer among Maine female residents or U.S. White females
Data source: Maine Cancer Registry & CINA
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison [<50, ≥50 years]; trend (year) among <50 years; trend (year) among ≥50 years)
Responsible Program: Comp Cancer
Other Use: SHNAPP, Cancer Plan, Maine Cancer Registry
Special Note: National comparison presents rates for Maine All Races and U.S. Whites. Trend tables use rolling 3-year rates.

Cervix uteri (cervical) cancer, staging
Description: Percentage of cervical cancer incidence by stage at diagnosis (e.g. localized, late stage [regional and distant], unknown)
Numerator: Number of incident cases of cervical cancer among Maine residents or U.S. Whites divided into stage categories at diagnosis (e.g. localized, late stage [regional and distant], unknown)
Denominator: Number of incident cases of cervical cancer among Maine female residents or U.S. White females
Data source: Maine Cancer Registry & CINA
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison
Responsible Program: Comp Cancer
Other Use: Maine Cancer Registry
Special Note: National comparison presents rates for Maine All Races and U.S. Whites. The denominator is not corrected to adjust for women who have had a hysterectomy.

Colon and rectum (colorectal) cancer, staging
Description: Percentage of colorectal cancer incidence by stage at diagnosis (e.g. localized, late stage [regional and distant], unknown)
Numerator: Number of incident cases of colorectal cancer among Maine residents or U.S. Whites divided into stage categories at diagnosis (e.g. localized, late stage [regional and distant], unknown)
Denominator: Number of incident cases of colorectal cancer among Maine residents or U.S. Whites
Data source: Maine Cancer Registry & CINA
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison [<50, ≥50 years] and by sex; trend (year) among <50 years; trend (year) among ≥50 years)
Responsible Program: Comp Cancer
Other Use: SHNAPP, Cancer Plan, Maine Cancer Registry
Special Note: National comparison presents rates for Maine All Races and U.S. Whites. Trend tables use rolling 3-year rates.

Lung cancer, staging
Description: Percentage of lung cancer incidence by stage at diagnosis (e.g., early stage [in situ and localized], late stage [regional and distant], unknown)
Numerator: Number of incident cases of lung cancer among Maine residents or U.S. Whites divided into stage categories at diagnosis (e.g. early stage [in situ and localized], late stage [regional and distant], unknown)
Denominator: Number of incident cases of lung cancer among Maine residents or U.S Whites
Data source: Maine Cancer Registry & CINA
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison [<55, ≥55 years] and by sex; trend (year) among ≥55 years
Responsible Program: Comp Cancer
Other Use: Maine Cancer Registry, Maine Cancer Plan
Special Note: National comparison presents rates for Maine All Races and U.S. Whites. Trend tables use rolling 3-year rates.

Prostate cancer, staging
Description: Percentage of prostate cancer incidence by stage at diagnosis (e.g. localized, late stage [regional and distant], unknown)
Numerator: Number of incident cases of prostate cancer among Maine residents or U.S. Whites divided into stage categories at diagnosis (e.g. localized, regional, distant, unknown)
Denominator: Number of incident cases of prostate cancer among Maine male residents or U.S. White males.
Data source: Maine Cancer Registry & CINA
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison
Responsible Program: Comp Cancer
Other Use: Maine Cancer Registry
Special Note: National comparison presents rates for Maine All Races and U.S. Whites.

CANCER SURVIVORS

Cancer survivors, prevalence
Description: Percentage of Maine adults who report they have been diagnosed with cancer
Numerator: Weighted number of Maine adults ages 18 years and over who responded 'Yes' to the questions about having ever been told they had cancer (skin cancer or other types of cancer).
Denominator: Weighted number of Maine adults ages 18 years and over who responded to the questions about having been told they had cancer ('don't know/not sure' and 'refused' responses are excluded)
Data source: BRFSS
Variable Name: cansurv (CHCOCNCR, CHCSCNCR)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Year by sex (total, male, female)
Responsible Program: Comp Cancer
Other Use: n/a

Any tobacco use in cancer survivors, prevalence
Description: Percentage of Maine adults who report they have been diagnosed with cancer and report currently using any tobacco products (cigarettes, smokeless tobacco, or other tobacco products)
Numerator: Weighted number of Maine adults ages 18 years and over who responded 'Yes' to the questions about having ever been told they had cancer (skin cancer or other types of cancer) and who

currently used any of the following: cigarette, smokeless tobacco, or other tobacco products (excluding e-cigarettes).
Denominator: Weighted number of Maine adults ages 18 years and over who responded to the questions about having been told they had cancer ('don't know/not sure' and 'refused' responses are excluded) and past tobacco use.
Data source: BRFSS
Variable Name: cansurv_tob (CHOCNCR, CHCSCNCR, _RFSMOK2, CIGARNOW, LTL_CIGR, CHEW, FLV_CIGA, LRG_CIG)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Year by sex (total, male, female)
Responsible Program: Comp Cancer
Other Use: Maine Cancer Plan

Current smoking in cancer survivors, prevalence
Description: Percentage of Maine adults who report they have been diagnosed with cancer and who have smoked at least 100 cigarettes in their lifetime and who currently smoke.
Numerator: Weighted number of Maine adults ages 18 years and over who responded 'Yes' to the questions about having ever been told they had cancer (skin cancer or other types of cancer) and who responded to questions about current and past cigarette use.
Denominator: Weighted number of Maine adults ages 18 years and over who responded to the questions about having been told they had cancer ('don't know/not sure' and 'refused' responses are excluded) and current and past cigarette use.
Data source: BRFSS
Variable name: cansurv_smokr (CHOCNCR, CHCSCNCR, _RFSMOK2)
Data availability: Annual
Unit of Analysis: Individual
Stratification: Year by sex (total, male, female)
Responsible Program: Comp Cancer
Other Use: Maine Cancer Plan

CANCER MORTALITY

All cancer, mortality
Description: All cancer deaths
Numerator: Number of deaths among Maine residents with malignant cancer as the underlying cause of death
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: Annual Cancer Report: National comparison; sex; county and district by sex; trend (year) Standard Updates: National comparison trend (year); Trend (year by sex); age by sex; county and district (crude and age-adjusted rates)
Responsible Program: Cancer Registry (Annual Cancer Report); Comp Cancer (standard updates)
Other Use: SHNAPP
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables. Trend is in chart form (not table). Geographic analysis uses 5-years of most recent data. Age groups presented most-recent 3-years of data by sex. Age groups presented: 0-14; 15-19; 20-24; 25-34; 35-44; 45-54; 55-64; 65-74; 75-84, 85+)

Acute myeloid leukemia, mortality
Description: Acute myeloid leukemia deaths
Numerator: Number of deaths among Maine residents with acute myeloid leukemia cancer as the underlying cause of death
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; sex
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables.
Also included in tobacco-related cancer measures.

Bladder cancer (urinary bladder cancer), mortality
Description: Bladder cancer deaths
Numerator: Number of deaths among Maine residents with bladder cancer as the underlying cause of death
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; Sex
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables. Geographic analysis uses 5-years of most recent data by sex.
Also included in tobacco-related cancer measures.

Brain and other CNS (central nervous system) tumors, mortality
Description: Brain and other CNS (central nervous system) tumor deaths
Numerator: Number of deaths among Maine residents with brain and other nervous system tumors as the underlying cause of death
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; sex
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables.

Breast cancer (female), mortality
Description: Female breast cancer deaths
Numerator: Number of deaths among Maine females with breast cancer as the underlying cause of death
Denominator: Maine female population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual

Unit of Analysis: Individual
Stratification: Annual Cancer Report: National comparison; county and district; age
Standard Updates: Trend (with national comparison); age; county and district (crude and age-adjusted rates)
Responsible Program: Cancer Registry (Annual Cancer Report); Comp Cancer (Standard Updates)
Other Use: SHNAPP
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables. Geographic analysis uses 5-years of most recent data by sex. Breast cancer rates for male U.S Whites and male U.S. all races are also presented. Age groups presented most-recent 3-years of data by sex. Age groups are presented as: <25; 25-34; 35-44; 45-54; 55-64; 65-74; 75-84, 85+.

Cervix uteri (cervical) cancer, mortality
Description: Cervical cancer deaths
Numerator: Number of deaths of among Maine residents with cervical cancer as the underlying cause of death
Denominator: Maine female population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: Annual Cancer Report: National comparison
Standard Updates: Trend (by race)
Responsible Program: Cancer Registry (Annual Cancer Report); Comp Cancer (Standard Updates)
Other Use: N/A
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate among females by site table.
Also included in tobacco-related cancer measures.

Colon and rectum (colorectal) cancer, mortality
Description: Colorectal cancer deaths
Numerator: Number of deaths among Maine residents with colorectal cancer as the underlying cause of death
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: Annual Cancer Report: National comparison; sex; county and district by sex
Standard Updates: Trend (with national comparison); trend (by sex); age by sex; county and district (crude and age-adjusted rates)
Responsible Program: Cancer Registry (Annual Cancer Report); Comp Cancer (Standard Updates)
Other Use: SHNAPP
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables. Geographic analysis uses 5-years of most recent data by sex. Age groups presented most-recent 3-years of data by sex. Age groups are presented as: <25; 25-34; 35-44; 45-54; 55-64; 65-74; 75-84, 85+.
Also included in tobacco-related cancer measures.

Esophagus cancer, mortality
Description: Esophageal cancer deaths
Numerator: Number of deaths among Maine residents with esophageal cancer as the underlying cause of death
Denominator: Maine population

Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; sex
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables.
Also included in tobacco-related cancer measures.

Kidney and renal pelvis cancer, mortality
Description: Kidney and renal pelvis cancer deaths
Numerator: Number of deaths among Maine residents with kidney and renal pelvis cancer as the underlying cause of death
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; sex
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables.
Also included in tobacco-related cancer measures.

Larynx cancer, mortality
Description: Larynx cancer deaths
Numerator: Number of deaths among Maine residents with larynx cancer as the underlying cause of death
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; sex
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables.
Also included in tobacco-related cancer measures.

Leukemia, mortality
Description: Leukemia deaths
Numerator: Number of deaths among Maine residents with leukemia as the underlying cause of death
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; sex
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A

Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables.

Liver and intrahepatic bile duct (liver) cancer, mortality
Description: Liver cancer deaths
Numerator: Number of deaths among Maine residents with liver cancer as the underlying cause of death
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; sex
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables.
Also included in tobacco-related cancer measures.

Lung and bronchus (lung) cancer, mortality
Description: Lung cancer deaths
Numerator: Number of deaths among Maine residents with lung cancer as the underlying cause of death
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: Annual Cancer Report: National comparison; sex; county and district by sex
Standard Updates: Trend (with national comparison); trend (by sex); age by sex; county and district (crude and age-adjusted rates)
Responsible Program: Cancer Registry (Annual Cancer Report); Comp Cancer (Standard Updates)
Other Use: SHNAPP
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables. Geographic analysis uses 5-years of most recent data by sex. Age groups presented most-recent 3-years of data by sex. Age groups presented: <25; 25-34; 35-44; 45-54; 55-64; 65-74; 75-84, 85+.

Melanoma of the skin, mortality
Description: Melanoma deaths
Numerator: Number of deaths among Maine residents with melanoma as the underlying cause of death
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; sex
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables.

Myeloma, mortality
Description: Myeloma deaths
Numerator: Number of deaths among Maine residents with myeloma cancer as the underlying cause of death
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; sex
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables.

Non-Hodgkin lymphoma, mortality
Description: Non-Hodgkin lymphoma deaths
Numerator: Number of deaths among Maine residents with Non-Hodgkin lymphoma as the underlying cause of death
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; sex
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables.

Oral cavity and pharynx (oropharyngeal) cancer, mortality
Description: Oropharyngeal cancer deaths
Numerator: Number of deaths among Maine residents with oropharyngeal cancer as the underlying cause of death
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; Sex
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables.
Also included in tobacco-related cancer measures.

Ovary (ovarian) cancer, mortality
Description: Ovarian cancer deaths
Numerator: Number of deaths among Maine residents with ovarian cancer as the underlying cause of death
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality Data
Data availability: Annual
Unit of Analysis: Individual

Stratification: National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate among females by site table.

Pancreas (pancreatic) cancer, mortality
Description: Pancreatic cancer deaths
Numerator: Number of deaths among Maine residents with pancreatic cancer as the underlying cause of death
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality Data
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; sex
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables.
Also included in tobacco-related cancer measures.

Prostate cancer, mortality
Description: Prostate cancer deaths
Numerator: Number of deaths of among Maine residents with prostate cancer as the underlying cause of death
Denominator: Maine male population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; geographic (county and district); age; trend
Responsible Program: Cancer Registry (Annual Cancer Report); Comp Cancer (age)
Other Use: SHNAPP
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate among males by site table. Geographic analysis uses 5-years of most recent data. Age groups presented most-recent 3-years of data. Age groups presented are: <45; 45-54; 55-64; 65-74; 75-84, 85+.

Stomach cancer, mortality
Description: Stomach cancer deaths
Numerator: Number of deaths among Maine residents with stomach cancer as the underlying cause of death
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; sex
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables.

Testis (testicular) cancer, mortality
Description: Testicular cancer deaths
Numerator: Number of deaths among Maine residents with testicular cancer as the underlying cause of death
Denominator: Maine male population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate among males by site table.

Thyroid cancer, mortality
Description: Thyroid cancer deaths
Numerator: Number of deaths among Maine residents with thyroid cancer as the underlying cause of death
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; sex
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables.

Uterus (Corpus uteri and uterus, NOS) cancer, mortality
Description: Uterus (Corpus uteri and uterus, NOS [not otherwise specified]) cancer deaths
Numerator: Number of deaths of among Maine residents with uterus (Corpus uteri and uterus, NOS) cancer as the underlying cause of death
Denominator: Maine female population
Data source: NCHS All Causes of Death Mortality data
Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: N/A
Special Note: National comparison is presented as Maine All Races, U.S. Whites, and U.S. All Races in age-adjusted cancer mortality rate among females by site table.

RISK-FACTOR RELATED CANCER MORTALITY

Tobacco-related cancers (excluding lung and bronchus), mortality
Description: Tobacco-related neoplasm deaths (excluding lung and bronchus cancer)
Numerator: Number of tobacco-related neoplasm deaths among Maine residents excluding lung and bronchus cancers and including laryngeal, oral cavity and pharynx, esophageal, stomach, pancreatic, kidney and renal pelvis, bladder, cervical, colon and rectum, liver, and acute myeloid leukemia.
Denominator: Maine population
Data source: NCHS All Causes of Death Mortality data

Data availability: Annual
Unit of Analysis: Individual
Stratification: National comparison; sex; county and district by sex; trend
Responsible Program: Cancer Registry (Annual Cancer Report)
Other Use: SHNAPP
Special Note: National comparison presents rates for U.S. Whites and U.S. All Races in age-adjusted cancer mortality rate by site, age-adjusted cancer mortality rate among males by site, and age-adjusted cancer mortality rate among females by site tables. Geographic analysis by sex uses 5-years of most recent data available.

Indicator Information and Source				FY17 Update (2016-2017)				FY18 Update (2017-2018)			
Responsible Program	Indicator *SHNAPP ‡Cancer Plan †Healthy Maine	Data Source	Data Availability	Demographics[1]	Race[2]	Geography[3]	Trend	Demographics[1]	Race[2]	Geography[3]	Trend
CANCER RISK FACTORS											
PTM	Adult, any tobacco use*‡	BRFSS	Annual	2015	2011-2015	2012-2015	2011-2015	2016	2011-2016	2013-2016	2011-2016
PAC 1305	Adult, obese*‡†	BRFSS	Annual	2015	2013-2015	2013-2015	2011-2015	2016	2014-2016	2014-2016	2011-2016
PAC 1305	Adult, overweight*‡†	BRFSS	Annual	2015	2013-2015	2013-2015	2011-2015	2016	2014-2016	2014-2016	2011-2016
PAC 1305	Adult, recommended physical activity*	BRFSS	Odd	2013-2015	2011-2015	2011-2015	-	-	-	-	-
Comp Cancer	Households, indoor radon testing‡	BRFSS (state-added)	Annual	2015 (income, home ownership, & rurality)	-	2013-2015	2011-2015	2016 (income, home ownership, & rurality)	-	2014-2016	2011-2016
Comp Cancer	Households, high radon levels*‡†	BRFSS (state-added)	Annual	-	-	2013-2015	2011-2015	-	-	2014-2015	2011-2016
Comp Cancer	Households, high radon levels mitigated	BRFSS (state-added)	Annual	-	-	-	2011-2015	-	-	-	2011-2016
PTM	Youth, any tobacco use‡	MIYHS	Odd	2015	2015	2015	2013-2015**	2017	2017	2017	2013-2017**
PTM	Youth, cigarette smoking‡†	MIYHS	Odd	2015	2015	2015	2013-2015**	2017	2017	2017	2013-2017**
MIPS	Youth, HPV immunization adherence ‡	MIPS	Quarterly	2016 (Sex)	-	2016	-	2017 (Sex)	-	2017	-
PAC 1305	Youth, obese‡†	MIYHS	Odd	2015	2015	2015	2013-2015	2017	2017	2017	2013-2017
PAC 1305	Youth, overweight‡	MIYHS	Odd	2015	2015	2015	2013-2015	2017	2017	2017	2013-2017
PAC 1305	Youth, physical activity	MIYHS	Odd	2015	2015	2015	2013-2015**	2017	2017	2017	2013-2017**

**MIYHS Instant Atlas Dashboard

BRFSS
[1] Sex, Age, Education Level, Income, Health Insurance Type, Current Depression, Any Depression or Anxiety, Rurality, Veteran status
[2] Race, Ethnicity, Sexual Orientation
[3] County and public health district

MIYHS
[1] Age, grade by sex
[2] Race and Sexual Orientation by sex
[3] County and public health district

Indicator Information and Source				FY17 Update (2016-2017)				FY18 Update (2017-2018)			
Responsible Program	Indicator *SHNAPP ‡Cancer Plan †Healthy Maine	Data Source	Data Availability	Demographics[1]	Race[2]	Geography[3]	Trend	Demographics[1]	Race[2]	Geography[3]	Trend
Comp Cancer	Youth, sunscreen use‡	MIYHS	Odd	2015	2015	2015	2013-2015	2017	2017	2017	2013-2017
Comp Cancer	Youth, use of indoor tanning‡	MIYHS	Odd	2015	2015	2015	2013-2015	2017	2017	2017	2013-2017
CANCER SCREENING											
Comp Cancer	Breast Cancer, Mammography, 40+ years*	BRFSS (rotating core)	Even	-	-	-	-	-	-	-	2012-2016 (trend by age)
Comp Cancer	Breast Cancer, Mammography, (50-74 years)*	BRFSS (rotating core)	Even	-	-	-	-	2016	2012-2016	2012-2016	2012-2016
Comp Cancer	Cervical Cancer, Pap Smear (21-65 years)*	BRFSS (rotating core)	Even	-	-	-	-	2016	2012-2016	2012-2016	2012-2016
Comp Cancer	Colorectal cancer, up-to-date (50-75 years)*	BRFSS (rotating core)	Even	-	-	-	-	2016	2012-2016	2012-2016	2012-2016
Comp Cancer	Colorectal cancer, FOBT and sig (50-75 years)	BRFSS (rotating core)	Even	-	-	-	-	2016	2012-2016	2012-2016	2012-2016
Comp Cancer	Colorectal cancer, FOBT (50-75 years)	BRFSS (rotating core)	Even	-	-	-	-	2016	2012-2016	2012-2016	2012-2016
Comp Cancer	Colorectal cancer, colonoscopy in past 10 years (50-75 years)	BRFSS (rotating core)	Even	-	-	-	-	2016	2012-2016	2012-2016	2012-2016

**MIYHS Instant Atlas Dashboard

BRFSS
[1] Sex, Age, Education Level, Income, Health Insurance Type, Current Depression, Any Depression or Anxiety, Rurality, Veteran status
[2] Race, Ethnicity, Sexual Orientation
[3] County and public health district

MIYHS
[1] Age, grade by sex
[2] Race and Sexual Orientation by sex
[3] County and public health district

Indicator Information and Source				FY17 Update (2016-2017)				FY18 Update (2017-2018)			
Responsible Program	Indicator *SHNAPP ‡Cancer Plan †Healthy Maine	Data Source	Data Availability	Demographics[1]	Race[2]	Geography[3]	Trend	Demographics[1]	Race[2]	Geography[3]	Trend
Comp Cancer	Lung cancer screening (55-80 years with a history of smoking)	BRFSS (state-added)	Annual – 2017 BRFSS survey – data available in FY19	-	-	-	-	-	-	-	-
Comp Cancer	Prostate cancer, PSA test, 50+ years	BRFSS (rotating core)	Even	-	-	-	**-**	-	-	2012-2016	2012-2016

**MIYHS Instant Atlas Dashboard

BRFSS
[1] Sex, Age, Education Level, Income, Health Insurance Type, Current Depression, Any Depression or Anxiety, Rurality, Veteran status
[2] Race, Ethnicity, Sexual Orientation
[3] County and public health district

MIYHS
[1] Age, grade by sex
[2] Race and Sexual Orientation by sex
[3] County and public health district

Indicator Information and Source				FY17 Update (2016-2017)				FY18 Update (2017-2018)			
Responsible Program	Indicator *SHNAPP ‡Cancer Plan †Healthy Maine	Data Source	Data Availability	Demographics[1]	National Comparison[2]	Geography[3]	Trend	Demographics[1]	National Comparison[2]	Geography[3]	Trend
CANCER INCIDENCE											
Registry	All cancers*	Registry	Annual	2011-2013 (age and sex)	2005-2013	2011-2013 (by sex)	1995-2013	2012-2014 (age and sex)	2006-2014	2012-2014 (by sex)	1995-2014
Registry	Bladder cancer*	Registry	Annual	2011-2013 (age and sex)	2013	2011-2013 (by sex)	2000-2013	2012-2014 (age and sex)	2014	2012-2014 (by sex)	2000-2014
Registry	Brain and other CNS tumors	Registry	Annual	2013 (sex)	2013	2009-2013	-	2014 (sex)	2014	2010-2014	-
Registry	Breast cancer (female)*	Registry	Annual	2011-2013 (age)	2013	2011-2013	2000-2013	2012-2014 (age)	2014	2012-2014	2000-2014
Registry	Cervix uteri (cervical) cancer	Registry	Annual	-	2013	-	2000-2014	-	2014	-	2000-2014
Registry	Colon and rectum (colorectal) cancer*	Registry	Annual	2011-2013 (age and sex)	2013	2011-2013 (by sex)	2000-2013	2012-2014 (age and sex)	2014	2012-2014 (by sex)	2000-2014
Registry	Esophagus cancer	Registry	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Esophagus, adenocarcinoma only	Registry	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Hodgkin lymphoma	Registry	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Kidney and renal pelvis (kidney) cancer	Registry	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Larynx cancer	Registry	Annual	2013 (sex)	2013	-	-	-	2014	-	-
Registry	Leukemia	Registry	Annual	2013 (sex)	2013	-	-	-	2014	-	-
Registry	Liver and intrahepatic bile duct (liver) cancer	Registry	Annual	2013 (sex)	2013	-	-	-	2014	-	-
Registry	Lung and bronchus (lung) cancer*	Registry	Annual	2011-2013 (age and sex)	-	2011-2013 (by sex)	2000-2013	2012-2014 (age and sex)	-	2012-2014 (by sex)	2000-2014

Registry

[1] Sex, Age

Age groupings are specified for cancer types in the list of selected cancer indicators.

[2] National comparison

[3] County and public health district

Indicator Information and Source				FY17 Update (2016-2017)				FY18 Update (2017-2018)			
Responsible Program	Indicator *SHNAPP ‡Cancer Plan †Healthy Maine	Data Source	Data Availability	Demographics[1]	National Comparison[2]	Geography[3]	Trend	Demographics[1]	National Comparison[2]	Geography[3]	Trend
Registry	Melanoma of the skin (melanoma)*	Annual	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Mesothelioma	Annual	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Myeloma	Annual	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Non-Hodgkin lymphoma	Registry	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Oral cavity and pharynx cancer	Registry	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Ovarian cancer	Registry	Annual	-	2013	-	-	-	2014	-	-
Registry	Pancreatic cancer	Registry	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Prostate cancer*	Registry	Annual	2011-2013 (age)	2013	2011-2013	2000-2013	2012-14 (age)	2013	2012-2014	2000-2014
Registry	Stomach cancer	Registry	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Testis (testicular) cancer	Registry	Annual	-	2013	-	-	-	2014	-	-
Registry	Thyroid cancer	Registry	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Uterus (Corpus uteri and uterus, NOS) cancer	Registry	Annual	-	2013	-	-	-	2014	-	-
RISK-FACTOR RELATED CANCER INCIDENCE (Definitions subject to updates)											
Registry	HPV-associated cancers	Registry	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Obesity-related cancers	Registry	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Tobacco-related cancers, excluding lung and bronchus*	Registry	Annual	2011-2013 (age and sex)	-	2011-2013 (age and sex)	2000-2013	2012-2014 (age and sex)	-	2012-2014 (age and sex)	2000-2014
CANCER STAGING											
Comp Cancer	Breast cancer (female)*‡	Registry	Annual	2011-2013 (age)	-	-	2000-2013 (<50 yrs & ≥50 yrs)	2012-2014 (age)	-	-	2000-2014 (<50 yrs & ≥50 yrs)

Registry

[1] Sex, Age

Age groupings are specified for cancer types in the list of selected cancer indicators.

[2] National comparison

[3] County and public health district

Indicator Information and Source				FY17 Update (2016-2017)				FY18 Update (2017-2018)			
Responsible Program	Indicator *SHNAPP ‡Cancer Plan †Healthy Maine	Data Source	Data Availability	Demographics[1]	National Comparison[2]	Geography[3]	Trend	Demographics[1]	National Comparison[2]	Geography[3]	Trend
Comp Cancer	Cervix uteri (cervical) cancer	Registry	Annual	-	-	-	2010-2013		-	-	2012-2014
Comp Cancer	Colon and rectum (colorectal) cancer*†	Registry	Annual	2011-2013 (age and sex)	-	-	2000-2013(<50 yrs & ≥50 yrs)	2012-2014 (age and Sex)	-	-	2000-2014 (<50 yrs & ≥50 yrs)
Comp Cancer	Lung cancer‡	Registry	Annual	2011-2013 (age and sex)	-	-	2000-2013 (≥55 yrs)	2012-2014 (age and sex)	-	-	2000-2014(≥55 yrs)
Comp Cancer	Prostate cancer	Registry	Annual	-	-	-	2010-2013		-	-	2011-2014

Registry

[1] Sex, Age

Age groupings are specified for cancer types in the list of selected cancer indicators.

[2] National comparison

[3] County and public health district

Indicator Information and Source				FY17 Update (2016-2017)				FY18 Update (2017-2018)			
Responsible Program	Indicator *SHNAPP ‡Cancer Plan †Healthy Maine	Data Source	Data Availability	Demographics[1]	National Comparison[2]	Geography[3]	Trend	Demographics[1]	National Comparison[2]	Geography[3]	Trend
CANCER MORTALITY											
Registry & Comp Cancer	All (malignant) cancers *	NCHS	Annual	2013 (sex, age by sex)	2005-2013	2009-2013 (by sex)	1969-2013	2014 (sex, age by sex)	2006-2014	2010-2014 (by sex)	1969-2014
Registry	Acute myeloid leukemia	NCHS	Annual	-	2013	-	-	2014	-	-	-
Registry	Bladder cancer	NCHS	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Brain and other CNS tumors	NCHS	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry & Comp Cancer	Breast cancer (female)*	NCHS	Annual	2011-2013 (age)	2013	2009-2013	1969-2013	2012-2014 (age)	2014	2010-2014	1969-2014
Registry & Comp Cancer	Cervix uteri (cervical) cancer	NCHS	Annual	-	2013	-	2000-2013	-	2014	-	2000-2014
Registry & Comp Cancer	Colon and rectum (colorectal) cancer*	NCHS	Annual	2013	2000-2013	2009-2013 (by sex)	1969-2013 (by sex)	2014	2000-2014	2010-2014 (by sex)	1969-2014 (by sex)
Registry	Esophagus cancer	NCHS	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Kidney and renal pelvis cancer	NCHS	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Larynx cancer	NCHS	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Leukemia	NCHS	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Liver and intrahepatic bile duct (liver) cancer	NCHS	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-

BRFSS

[1] Sex, Age, Education Level, Income, Health Insurance Type, Current Depression, Any Depression or Anxiety, Rurality

[2] Race, Ethnicity, Sexual Orientation

[3] County and public health district

NCHS (Mortality)

[1] Sex, Age

Age groupings are specified in the list of cancer indicators

[2] National comparison

[3] County and public health district

Indicator Information and Source				FY17 Update (2016-2017)				FY18 Update (2017-2018)			
Responsible Program	Indicator *SHNAPP ‡Cancer Plan †Healthy Maine	Data Source	Data Availability	Demographics[1]	National Comparison[2]	Geography[3]	Trend	Demographics[1]	National Comparison[2]	Geography[3]	Trend
Registry & Comp Cancer	Lung and bronchus (lung) cancer*	NCHS	Annual	2013 (sex), 2011-2013 (age by sex)	2000-2013	2009-2013 (by sex)	1969-2013 (by sex)	2014 (sex) 2012-2014 (age by sex)	2000-2014	2010-2014 (by sex)	1969-2014 (by sex)
Registry	Melanoma of the skin	NCHS	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Myeloma	NCHS	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Non-Hodgkin lymphoma	NCHS	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Oral cavity and pharynx (oropharyngeal)	NCHS	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Ovary (ovarian) cancer	NCHS	Annual	-	2013	-	-	-	2014	-	-
Registry	Pancreas (pancreatic) cancer	NCHS	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry & Comp Cancer	Prostate cancer*	NCHS	Annual	2011-2013 (age)	2013	2009-2013	1969-2013	2012-2014 (age)	2014	2010-2014	1969-2014
Registry	Stomach cancer	NCHS	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Testis (testicular) cancer	NCHS	Annual	-	2013	-	-	-	2014	-	-
Registry	Thyroid cancer	NCHS	Annual	2013 (sex)	2013	-	-	2014 (sex)	2014	-	-
Registry	Uterus (Corpus uteri and uterus, NOS) cancer	NCHS	Annual	2013	-	-	2013	2014	2014	-	2014
RISK-FACTOR RELATED CANCER DEATHS											
Registry	Tobacco-related cancers*	NCHS	Annual	2013 (sex)	-	2009-2013 (by sex)	1969-2013 (by sex)	2014 (sex)	2014	2010-2014 (by sex)	1969-2013 (by sex)

BRFSS

[1] Sex, Age, Education Level, Income, Health Insurance Type, Current Depression, Any Depression or Anxiety, Rurality

[2] Race, Ethnicity, Sexual Orientation

[3] County and public health district

NCHS (Mortality)

[1] Sex, Age

Age groupings are specified in the list of cancer indicators

[2] National comparison

[3] County and public health district

Indicator Information and Source				FY17 Update (2016-2017)				FY18 Update (2017-2018)			
Responsible Program	Indicator *SHNAPP ‡Cancer Plan †Healthy Maine	Data Source	Data Availability	Demographics[1]	National Comparison[2]	Geography[3]	Trend	Demographics[1]	National Comparison[2]	Geography[3]	Trend
CANCER SURVIVORS											
Comp Cancer	Cancer survivors, prevalence	BRFSS	Annual	-	-	-	-	-	-	-	2011-2015 (by sex)
Comp Cancer	Cancer survivors, any tobacco use‡	BRFSS	Annual (tobacco use=state-added question)	-	-	-	-	-	-	-	2011-2015 (by sex)
Comp Cancer	Cancer survivors, current smoking‡		Annual (current smoking=state-added question)	-	-	-	-	-	-	-	2011-2015 (by sex)

BRFSS
[1] Sex, Age, Education Level, Income, Health Insurance Type, Current Depression, Any Depression or Anxiety, Rurality
[2] Race, Ethnicity, Sexual Orientation
[3] County and public health district

NCHS (Mortality)
[1] Sex, Age
Age groupings are specified in the list of cancer indicators
[2] National comparison
[3] County and public health district

NEXT STEPS

This plan forms the backbone of future cancer surveillance efforts in Maine. The immediate next step is to implement this plan: epidemiology staff will analyze or gather (if analyzed data are already available) the data and create the standard data tables from the table shells shown in the Appendix. Following creation of the standard data tables, epidemiology staff will create standard figures to better illustrate and understand the data. The standard tables and figures formed the basis of the 2014 Maine Cancer Surveillance Report. While not all tables, figures, and indicators were previously included in the Maine Cancer Surveillance Report, epidemiology staff interpreted the information in the standard tables and figures, with input from Maine CDC cancer program staff. As new data becomes available, epidemiology staff will continue to update the standard tables and figures and make those available to Maine CDC cancer program staff on an annual basis. Maine CDC cancer program and epidemiology staff will work to develop plans for dissemination of future updates to the standard tables and figures.

Longer term steps include using the Cancer Surveillance Plan to plan future data collection efforts, routinely evaluating and updating this plan as needed, and working to ensure that other Maine CDC surveillance efforts are aligned with these indicators. Maine CDC cancer program and epidemiology staff will work together to ensure indicators collected from the Maine BRFSS and MIYHS are included in the survey questionnaires on a regular basis. This Cancer Surveillance Plan and its implementation will be evaluated regularly. At a minimum, the indicators will be reviewed and evaluated to ensure they remain useful to Maine CDC cancer programs, and they capture the required scope of measures across the cancer prevention and control spectrum. Regular evaluation will also identify and address unused or redundant indicators; new indicators will be added as needed; and updates will be made to reflect changes in data availability, national cancer control recommendations, or indicator definitions. Similarly, staff will review and evaluate table shells to ensure that the data included are useful, sufficient for program use, and reflect changes in data availability and national recommendations.

The Maine CDC routinely conducts other public health surveillance activities, such as the Maine Shared Health Needs Assessment & Planning Process (SHNAPP) and the Division of Disease Prevention's Surveillance Indicators. As this Cancer Surveillance Plan was created, the cancer program and epidemiology staff ensured cancer indicators were in alignment with these broader surveillance efforts to the extent that it made sense. As broader surveillance efforts like these are undertaken in the future, cancer program and epidemiology staff will work to ensure that these efforts are aligned with the Cancer Surveillance Plan. For example, to ensure both efficiency and effectiveness, it is important that any cancer surveillance indicators included in these broader efforts come from this Cancer Surveillance Plan.

REFERENCES

1. The 2016 Maine Annual Report of Cancer. Augusta, ME: Maine Cancer Registry, Division of Public Health Operations, Maine Center for Disease Control and Prevention; June 2017. Available at: http://www.maine.gov/dhhs/mecdc/public-health-systems/data-research/vital-records/mcr/reports/documents/Maine-2016-Annual-Report-of-Cancer_06292017.pdf.

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3. Maine Cancer Surveillance Report, 2014. Augusta, ME: Maine Center for Disease Control and Prevention, 2014. Available at: http://www.maine.gov/dhhs/mecdc/population-health/ccc/documents/MaineCancerSurveillanceReport2014.pdf.

APPENDIX 1

SAMPLE TABLE SHELLS

1. Prevalence of selected indicator among adults by year, Maine and U.S., 2000-2015

2. Prevalence of selected indicator among adults by demographics, Maine, 2015

3. Prevalence of selected indicator among adults by race, ethnicity, and sexual orientation, Maine, 2011-2015

4. Prevalence of selected indicator among adults by county and public health district, Maine, 2013-2015

5. Percentage of students who were overweight by demographics, Maine, 2015

6. Percentage of students who were overweight by Sexual Orientation and Public Health District, Maine, 2015

7. Percentage of students who were overweight by County, Maine, 2015

8. Homes with radon testing of indoor air by year, 2009-2015

9. Homes with radon testing or indoor air by income, rurality, and home ownership, 2013-2015

10. Homes with household air tested for radon by county and public health district, 2013-2015

11. Age-adjusted cancer incidence rates by site: Total

12. Age-adjusted cancer incidence rates by site: Male

13. Age-adjusted cancer incidence rates by site: Female

14. Colon and Rectum Cancer: Incidence by Age, Maine, 2011-2013

15. Colon and Rectum Cancer: Incidence by County and Public Health District of Residence, Maine, 2011-2013

16. Cancer Incidence Trends: Age-adjusted Incidence of all Malignant Cancers, Maine 1995-2013

17. Age-adjusted Obesity-Related cancers: incidence by anatomic site

18. Age-adjusted Human Papillomavirus (HPV)-associated cancers: incidence by anatomic site

19. Age-adjusted Cancer Mortality Rates by Site: Total

Table Shell 1. Prevalence of selected indicator among adults by year, Maine and U.S., 2000-2015

| | Maine | | | | | U.S.* | | |
	Total Respondents	n	N	%	95% CI	Median %	95% CI	Number of States
Year								
2000								
2001								
2002								
2003								
2004								
2005								
2006								
2007								
2008								
2009								
2010								
Change in BRFSS methods								
2011								
2012								
2013								
2014								
2015								

Data Source: Maine Behavioral Risk Factor Surveillance System.

Definition: Percentage of Maine adults ages 18 years and over who…

n: Number of survey respondents who…

N: Estimated annual number of Maine adults who..

Total Respondents=unweighted denominator; n=unweighted number; N=weighted number; 95% CI: 95% confidence interval.

Subgroup counts might not sum to Maine total due to missing data.

† Interpret with caution; based on an unweighted numerator (n) less than 50.

DSU: Data statistically unreliable; total respondents <50 or 95% CI half-width is >10.

NA: Not available.

All percentages are weighted to be representative of the general Maine adult population and to adjust for non-response.

*U.S.: 50 states and the District of Columbia.

Due to changes in BRFSS methodology, 2011 and later data should not be compared to data prior to 2011.

Table Shell 2. Prevalence of selected indicator among adults by demographics, Maine, 2015

	Total Respondents	n	N	%	95% CI
Maine Total					
Sex					
Female					
Male					
Age					
18-24					
25-34					
35-44					
45-54					
55-64					
65-74					
75 and over					
Education Level					
Less than high school diploma					
High school diploma or GED					
Some college					
Bachelor's degree or higher					
Household Income					
Less than $15,000					
$15,000-24,999					
$25,000-34,999					
$35,000-49,999					
$50,000 or more					
Health Insurance Type					
Private					
Medicaid or MaineCare					
Medicare					
Other*					
Uninsured					
Current Depression					
Yes					
No					
Any Depression or Anxiety					
Yes					
No					
Rurality					
Metro					
Large Rural					
Small Rural					
Isolated Rural					

Data Source: Maine Behavioral Risk Factor Surveillance System.

Definition: Percentage of Maine adults ages 18 years and over who…

n: Number of survey respondents who…

Avg Annual N: Estimated annual number of Maine adults who..

Total Respondents=unweighted denominator; n=unweighted number; N=weighted number; 95% CI: 95% confidence interval.

* "Other" health insurance includes VA, Indian Health Service, CHAMPUS, etc.

Current Depression = current symptoms of moderate to severe depression by the PHQ-2 scale.

Any Depression or Anxiety = current symptoms of moderate to severe depression, ever diagnosed with depression, or ever diagnosed with anxiety.

Rurality based on Rural-Urban Commuting Areas (RUCA), using categories defined in the New England Rural Health Roundtable's Rural Data for Action, Second Edition.

† Interpret with caution; based on an unweighted numerator (n) less than 50.

DSU: Data statistically unreliable; total respondents <50 or 95% CI half-width is >10.

All percentages are weighted to be representative of the general Maine adult population and to adjust for non-response.

Due to changes in BRFSS methodology, 2011 and later data should not be compared to data prior to 2011.

Table Shell 3. Prevalence of selected indicator among adults by race, ethnicity, and sexual orientation, Maine, 2011-2015

	Total Respondents	Avg Annual			
		n	N	%	95% CI
Maine Total					
Race					
American Indian or Alaska Native					
Asian					
Black or African American					
Other Race					
Native Hawaiian or Pacific Islander					
Two or more races					
White					
Hispanic Ethnicity					
Hispanic					
Non-Hispanic					
Sexual Orientation					
Bisexual					
Heterosexual or Straight					
Homosexual (Gay or Lesbian)					
Other					

Data Source: Maine Behavioral Risk Factor Surveillance System.

Definition: Percentage of Maine adults ages 18 years and over who…

n: Number of survey respondents who…

Avg Annual N: Estimated annual number of Maine adults who…

Total Respondents=unweighted denominator; n=unweighted number; N=weighted number; 95% CI: 95% confidence interval.

Subgroup counts might not sum to Maine total due to missing data.

† Interpret with caution; based on an unweighted numerator (n) less than 50.

DSU: Data statistically unreliable; total respondents <50 or 95% CI half-width is >10.

All percentages are weighted to be representative of the general Maine adult population and to adjust for non-response.

Due to changes in BRFSS methodology, 2011 and later data should not be compared to data prior to 2011.

Table Shell 4. Prevalence of selected indicator among adults by county and public health district, Maine, 2013-2015

	Total Respondents	n	Avg Annual N	%	95% CI
Maine Total					
County of Residence					
Androscoggin					
Aroostook					
Cumberland					
Franklin					
Hancock					
Kennebec					
Knox					
Lincoln					
Oxford					
Penobscot					
Piscataquis					
Sagadahoc					
Somerset					
Waldo					
Washington					
York					
Public Health District of Residence					
Aroostook					
Central					
Cumberland					
Downeast					
Midcoast					
Penquis					
Western					
York					

Data Source: Maine Behavioral Risk Factor Surveillance System.

Definition: Percentage of Maine adults ages 18 years and over who…

n: Number of survey respondents who…

Avg Annual N: Estimated annual number of Maine adults who..

Total Respondents=unweighted denominator; n=unweighted number; N=weighted number; 95% CI: 95% confidence interval.

Subgroup counts might not sum to Maine total due to missing data.

† Interpret with caution; based on an unweighted numerator (n) less than 50.

DSU: Data statistically unreliable; total respondents <50 or 95% CI half-width is >10.

DSP: Data suppressed to protect privacy as number < 6.

All percentages are weighted to be representative of the general Maine adult population and to adjust for non-response.

Due to changes in BRFSS methodology, 2011 and later data should not be compared to data prior to 2011.

Percentage of students who were overweight (i.e., at or above the 85th percentile but below the 95th percentile for body mass index, by age and sex) -- SELF-REPORTED HEIGHT/WEIGHT (hnowt)

	Total			Female			Male		
	%	**CI**	**N**	**%**	**CI**	**N**	**%**	**CI**	**N**
Total	16.5%	(15.9%-17.0%)	9,220	15.7%	(14.9%-16.5%)	4,174	17.2%	(16.5%-17.9%)	5,045
----Age----									
14 or younger	18.4%	(17.1%-19.7%)	1,354	17.1%	(15.3%-18.9%)	640	19.7%	(18.0%-21.4%)	715
15	17.0%	(16.2%-17.9%)	2,327	16.1%	(14.9%-17.4%)	1,045	17.9%	(16.7%-19.0%)	1,283
16	16.8%	(15.9%-17.7%)	2,413	16.0%	(14.7%-17.4%)	1,131	17.6%	(16.1%-19.0%)	1,282
17	15.7%	(14.8%-16.6%)	2,194	15.0%	(13.6%-16.4%)	993	16.3%	(15.2%-17.5%)	1,201
18 or older	14.1%	(12.9%-15.2%)	932	13.3%	(11.3%-15.3%)	366	14.6%	(13.3%-15.9%)	566
----Grade----									
Grade 9	17.7%	(16.7%-18.7%)	2,393	16.8%	(15.5%-18.2%)	1,085	18.4%	(17.2%-19.7%)	1,308
Grade 10	16.6%	(15.7%-17.5%)	2,318	15.4%	(14.2%-16.7%)	1,018	17.6%	(16.4%-18.9%)	1,300
Grade 11	16.5%	(15.6%-17.5%)	2,337	15.7%	(14.4%-17.0%)	1,081	17.3%	(16.0%-18.7%)	1,257
Grade 12	14.9%	(14.0%-15.8%)	2,066	14.6%	(13.3%-16.0%)	959	15.1%	(13.9%-16.3%)	1,108
----Race/Ethnicity----									
American Indian or Alaskan Native**	18.5%	(15.8%-21.2%)	98	19.5%	(14.6%-24.4%)	47	17.7%	(13.4%-22.0%)	51
Asian**	13.1%	(10.5%-15.7%)	99	10.8%	(7.4%-14.1%)	41	15.5%	(12.2%-18.8%)	58
Black or African American**	18.3%	(15.8%-20.8%)	136	19.5%	(15.5%-23.4%)	64	17.4%	(14.5%-20.2%)	72
Hispanic	17.8%	(15.5%-20.0%)	225	18.3%	(15.1%-21.5%)	110	17.3%	(14.2%-20.4%)	116
Native Hawaiian or Other Pacific Islander**	12.2%	(5.5%-18.9%)	11	16.5%	(5.5%-27.5%)	8	7.9%	(0.9%-14.8%)	4
White**	16.3%	(15.7%-16.9%)	8,184	15.5%	(14.6%-16.4%)	3,714	17.1%	(16.3%-17.8%)	4,471
Multiple races**	17.9%	(15.7%-20.0%)	168	17.0%	(13.3%-20.7%)	82	18.8%	(15.7%-21.8%)	86

*Estimate suppressed due to small cell sizes. **Non-Hispanic*
CI = 95% Confidence Interval
N = Number of students who were overweight (i.e., at or above the 85th percentile but below the 95th percentile for body mass index, by age and sex) -- SELF-REPORTED HEIGHT/WEIGHT (weighted). Note: Due to missing data, the sum of demographic categories may not equal the overall total.

Percentage of students who were overweight (i.e., at or above the 85th percentile but below the 95th percentile for body mass index, by age and sex) -- SELF-REPORTED HEIGHT/WEIGHT (hnowt)

	Total			**Female**			**Male**		
	%	**CI**	**N**	**%**	**CI**	**N**	**%**	**CI**	**N**
-----Sexual Orientation----									
Heterosexual	16.2%	(15.6%-16.8%)	8,020	15.1%	(14.2%-15.9%)	3,410	17.2%	(16.5%-17.9%)	4,609
Gay/Lesbian	17.8%	(14.6%-21.1%)	185	18.8%	(15.0%-22.6%)	88	17.0%	(12.9%-21.2%)	97
Bisexual	18.8%	(16.8%-20.8%)	594	20.3%	(18.2%-22.4%)	471	14.7%	(10.9%-18.5%)	123
Not Sure	17.2%	(14.8%-19.6%)	339	17.4%	(14.0%-20.8%)	180	17.0%	(13.7%-20.3%)	159
----Public Health District----									
Aroostook PHD	17.7%	(15.6%-19.8%)	499	16.7%	(13.3%-20.1%)	225	18.6%	(15.9%-21.2%)	274
Central Maine PHD	17.5%	(16.4%-18.7%)	1,342	17.6%	(15.7%-19.6%)	638	17.4%	(16.1%-18.8%)	704
Cumberland PHD	14.3%	(13.0%-15.5%)	1,671	12.7%	(11.0%-14.3%)	711	15.7%	(14.3%-17.1%)	960
Downeast PHD	18.3%	(16.2%-20.4%)	593	19.0%	(14.9%-23.1%)	298	17.6%	(14.8%-20.3%)	295
Mid-Coast PHD	15.9%	(14.7%-17.1%)	840	13.9%	(12.5%-15.4%)	338	17.5%	(16.1%-18.9%)	502
Penquis PHD	17.3%	(16.4%-18.2%)	1,380	17.7%	(16.1%-19.4%)	653	16.9%	(15.4%-18.4%)	727
Western Maine PHD	18.3%	(17.4%-19.3%)	1,474	18.1%	(16.8%-19.4%)	712	18.5%	(16.4%-20.7%)	761
York PHD	16.3%	(14.5%-18.1%)	1,488	15.0%	(12.4%-17.5%)	661	17.6%	(15.7%-19.5%)	828

*Estimate suppressed due to small cell sizes. **Non-Hispanic*
^Data not shown due to low response rate.
CI = 95% Confidence Interval
N = Number of students who were overweight (i.e., at or above the 85th percentile but below the 95th percentile for body mass index, by age and sex) -- SELF-REPORTED HEIGHT/WEIGHT (weighted). Note: Due to missing data, the sum of demographic categories may not equal the overall total.

Percentage of students who were overweight (i.e., at or above the 85th percentile but below the 95th percentile for body mass index, by age and sex) --
SELF-REPORTED HEIGHT/WEIGHT (hnowt)

	Total			**Female**			**Male**		
	%	**CI**	**N**	**%**	**CI**	**N**	**%**	**CI**	**N**
----County----									
Androscoggin County	18.6%	(17.5%-19.7%)	758	18.7%	(16.3%-21.0%)	387	18.6%	(14.8%-22.3%)	371
Aroostook County	17.7%	(15.6%-19.8%)	499	16.7%	(13.3%-20.1%)	225	18.6%	(15.9%-21.2%)	274
Cumberland County	14.3%	(13.0%-15.5%)	1,671	12.7%	(11.0%-14.3%)	711	15.7%	(14.3%-17.1%)	960
Franklin County	17.9%	(16.4%-19.5%)	243	16.8%	(15.9%-17.7%)	105	18.9%	(16.7%-21.1%)	138
Hancock County	15.9%	(13.8%-18.0%)	310	15.8%	(11.4%-20.1%)	148	16.1%	(13.3%-18.9%)	162
Kennebec County	17.5%	(15.9%-19.1%)	903	17.9%	(15.1%-20.8%)	437	17.1%	(15.3%-19.0%)	466
Knox County	^	^	^	^	^	^	^	^	^
Lincoln County	13.9%	(11.7%-16.1%)	231	13.2%	(9.3%-17.2%)	106	14.6%	(13.1%-16.0%)	125
Oxford County	18.0%	(16.3%-19.7%)	472	18.0%	(16.1%-19.8%)	224	18.1%	(14.8%-21.4%)	248
Penobscot County	17.3%	(16.4%-18.3%)	1,250	17.5%	(15.7%-19.3%)	583	17.2%	(15.7%-18.7%)	667
Piscataquis County	17.1%	(15.9%-18.3%)	132	18.9%	(14.6%-23.2%)	67	15.6%	(11.1%-20.1%)	65
Sagadahoc County	15.8%	(14.7%-16.9%)	211	14.2%	(13.5%-15.0%)	87	17.0%	(15.5%-18.6%)	125
Somerset County	17.6%	(15.9%-19.3%)	439	17.1%	(15.0%-19.3%)	202	18.0%	(16.5%-19.6%)	237
Waldo County	20.4%	(14.8%-26.1%)	227	17.0%	(13.1%-20.9%)	81	23.0%	(15.5%-30.5%)	145
Washington County	21.0%	(18.0%-23.9%)	272	22.9%	(15.9%-29.8%)	143	19.2%	(14.6%-23.8%)	129
York County	16.3%	(14.5%-18.1%)	1,488	15.0%	(12.4%-17.5%)	661	17.6%	(15.7%-19.5%)	828

*Estimate suppressed due to small cell sizes. **Non-Hispanic*
^Data not shown due to low response rate.
CI = 95% Confidence Interval
N = Number of students who were overweight (i.e., at or above the 85th percentile but below the 95th percentile for body mass index, by age and sex) -- SELF-REPORTED HEIGHT/WEIGHT (weighted). Note:
Due to missing data, the sum of demographic categories may not equal the overall total.

Table Shell 8. Homes with radon testing of indoor air by year, Maine, 2009-2015

Year	Homes tested for radon					Homes with elevated radon levels of those tested					Homes with elevated radon levels mitigated of those with elevated levels				
	Total Households	n	N	%	95% CI	Total Households	n	N	%	95% CI	Total Households	n	N	%	95% CI
2009															
2010															
						Change in BRFSS methods									
2011															
2012															
2013															
2014															
2015															

Data Source: Maine Behavioral Risk Factor Surveillance System.

Definition: Percentage of Maine households that reported indoor air was tested for radon, indoor air had above normal radon levels when tested, and elevated radon levels were mitigated when above normal.

n: Number of surveyed households that reported indoor air was tested for radon, indoor air had above normal radon levels when tested, and elevated radon levels were mitigated when above normal.

N: Estimated number of Maine households that had an indoor air test for radon, indoor air had above normal radon levels when tested, and elevated radon levels were mitigated when above normal.

Total Respondents: unweighted denominator; 95% CI = 95% confidence interval.

All percentages are weighted to be more representative of households in Maine and to adjust for non-response.

Due to changes in BRFSS methodology, 2011 and later data should not be compared to data prior to 2011.

Table Shell 9. Homes with radon testing of indoor air by income, rurality, and home ownership, Maine

	Homes tested for radon, 2015				
	Total Households	n	N	%	95% CI
Maine Total					
Income					
Less than $15,000					
$15,000 - 24,999					
$25,000 - 34,999					
$35,000 - 49,999					
$50,000 or more					
Rurality					
Metropolitan					
Large rural					
Small rural					
Isolated rural					
Radon Home Ownership					
Own home					
Rent home					

Data Source: Maine Behavioral Risk Factor Surveillance System.

Definition: Percentage of Maine households that reported indoor air was tested for radon.

n: Number of surveyed households that reported indoor air was tested for radon.

N: Estimated number of Maine households that reported indoor air was tested for radon.

Total Respondents: unweighted denominator; 95% CI = 95% confidence interval.

DSU: Data statistically unreliable; total households <50 or 95% CI half-width is >10.

† Interpret with caution; based on an unweighted numerator (n) less than 50.

All percentages are weighted to be more representative of the general adult population of Maine and to adjust for non-response.

Rurality based on Rural-Urban Commuting Areas (RUCA), using categories defined in the New England Rural Health Roundtable's Rural Data for Action, Second Edition.

Due to changes in BRFSS methodology, 2011 and later data should not be compared to data prior to 2011.

Table Shell 10. Homes with household indoor air tested for radon by county and public health district, Maine, 2013-2015

	Total Respondents	n	Average Annual N	%	95% CI
Maine Total					
County of Residence					
Androscoggin					
Aroostook					
Cumberland					
Franklin					
Hancock					
Kennebec					
Knox					
Lincoln					
Oxford					
Penobscot					
Piscataquis					
Sagadahoc					
Somerset					
Waldo					
Washington					
York					
Public Health District of Residence					
Aroostook					
Central					
Cumberland					
Downeast					
Midcoast					
Penquis					
Western					
York					

Data Source: Maine Behavioral Risk Factor Surveillance System.

Definition: Percentage of Maine households that reported indoor air was tested for radon.

n: Number of surveyed households that reported indoor air was tested for radon.

Average Annual N: Estimated annual number of Maine households that reported indoor air was tested for radon.

Total Respondents: unweighted denominator; 95% CI = 95% confidence interval.

[†] Interpret with caution; based on an unweighted numerator (n) less than 50.

DSU: Data statistically unreliable; total households <50 or 95% CI half-width is >10.

All percentages are weighted to be more representative of households in Maine and to adjust for non-response.

Subgroup counts might not sum to Maine total due to missing data.

Age-adjusted Cancer Incidence Rates by Site, Maine, 2013

	Maine		U.S.	
	AA Rate (95% CI)	*Count*	*CINA Whites*	*CINA All races*
All Cancer Sites	463.8 (453.5 - 474.2)	8,366	439.9 (439.1 - 440.7)	439.2 (438.5 - 439.9)
Leading Cancer Sites				
Tobacco-related, Excluding Lung and Bronchus	128.2 (122.9 - 133.6)	2,365	127.0 (126.6 - 127.4)	127.7 (127.3 - 128.1)
Lung and Bronchus	74.8 (70.8 - 78.9)	1,389	60.4 (60.1 - 60.6)	59.5 (59.3 - 59.8)
Colon and Rectum	37.4 (34.6 - 40.4)	686	37.6 (37.3 - 37.8)	38.5 (38.2 - 38.7)
Female Breast	126.0 (118.5 - 133.9)	1,159	124.5 (123.9 - 125.1)	123.8 (123.3 - 124.3)
Male Prostate	80.7 (74.9 - 86.9)	752	92.5 (92.0 - 93.0)	101.7 (101.2 - 102.2)
Other Cancer Sites				
Melanoma of the Skin	24.7 (22.3 - 27.3)	422	23.4 (23.2 - 23.6)	20.6 (20.4 - 20.8)
Urinary Bladder	24.6 (22.3 - 27.0)	459	21.4 (21.2 - 21.5)	20.1 (19.9 - 20.2)
Non-Hodgkin Lymphoma	19.5 (17.4 - 21.8)	347	19.0 (18.8 - 19.2)	18.5 (18.3 - 18.6)
Thyroid	16.3 (14.2 - 18.6)	243	15.1 (15.0 - 15.3)	14.6 (14.4 - 14.7)
Kidney and Renal Pelvis	15.5 (13.7 - 17.6)	277	16.1 (16.0 - 16.3)	16.0 (15.9 - 16.2)
Leukemia	14.1 (12.4 - 16.1)	250	13.6 (13.4 - 13.7)	13.1 (13.0 - 13.3)
Pancreas	12.7 (11.2 - 14.5)	242	12.2 (12.0 - 12.3)	12.4 (12.3 - 12.5)
Oral Cavity and Pharynx	11.6 (10.0 - 13.3)	213	11.8 (11.7 - 12.0)	11.5 (11.4 - 11.6)
Brain and Other Nervous System	6.9 (5.6 - 8.3)	114	7.0 (6.9 - 7.1)	6.5 (6.4 - 6.6)
Esophagus	6.2 (5.1 - 7.5)	121	4.7 (4.6 - 4.7)	4.5 (4.4 - 4.6)
Myeloma	6.1 (5.0 - 7.3)	116	5.6 (5.5 - 5.7)	6.3 (6.2 - 6.4)
Liver and Intrahepatic Bile Duct	5.3 (4.3 - 6.5)	101	7.2 (7.1 - 7.3)	7.9 (7.8 - 8.0)
Stomach	4.9 (3.9 - 6.1)	87	5.8 (5.8 - 5.9)	6.6 (6.5 - 6.7)
Larynx	3.7 (2.9 - 4.7)	70	3.4 (3.3 - 3.5)	3.4 (3.3 - 3.4)
Hodgkin Lymphoma	3.3 (2.3 - 4.4)	44	2.6 (2.6 - 2.7)	2.6 (2.5 - 2.6)
Mesothelioma	1.3 (0.8 - 2.1)	23	1.0 (1.0 - 1.0)	0.9 (0.9 - 1.0)
Other Gender Specific Sites				
Uterus (Corpus Uteri and Uterus, NOS)	29.5 (26.1 - 33.3)	296	26.2 (25.9 - 26.4)	25.8 (25.6 - 26.1)
Ovary	10.2 (8.2 - 12.7)	95	11.5 (11.3 - 11.6)	11.2 (11.0 - 11.3)
Cervix Uteri	5.9 (4.2 - 8.0)	44	7.0 (6.9 - 7.2)	7.3 (7.1 - 7.4)
Testis	7.3 (5.2 - 9.9)	41	6.4 (6.3 - 6.5)	5.5 (5.4 - 5.6)

Notes:

- [ ]   A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- Tobacco-related cancers excluding lung and bronchus defined as laryngeal, oral cavity and pharynx, esophageal, stomach, pancreatic, kidney and renal pelvis, bladder, cervical, colon and rectum, liver and acute myeloid leukemia. Most of these cancers also appear separately in the table.
- Cancer sites are ordered by descending Maine incidence rates.
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008.
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable.
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
- Subgroup counts might not sum to Maine total due to rounding.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; CINA = NAACCR Cancer in North America (CINA) Plus Standard File.

Data Sources:

- Maine Incidence: Maine CDC Cancer Registry, based on November 2015 NPCR-CSS data submission
- National Incidence: NAACCR Cancer in North America (CINA) Plus Standard File.

Age-adjusted Cancer Incidence Rates among Males by Site, Maine, 2013

	Male			
	Maine		**U.S.**	
	AA Rate (95% CI)	**Count**	**CINA Whites**	**CINA All races**
All Cancer Sites	487.1 (471.9 - 502.7)	4,144	474.6 (473.4 - 475.8)	479.3 (478.2 - 480.4)
Tobacco-related, Excluding Lung and Bronchus	168.3 (159.5 - 177.5)	1,448	171.0 (170.2 - 171.7)	171.5 (170.8 - 172.1)
Lung and Bronchus	88.8 (82.4 - 95.6)	749	69.8 (69.3 - 70.3)	70.1 (69.6 - 70.5)
Prostate	80.7 (74.9 - 86.9)	752	92.5 (92.0 - 93.0)	101.7 (101.2 - 102.2)
Colon and Rectum	41.8 (37.5 - 46.6)	356	43.0 (42.7 - 43.4)	44.2 (43.9 - 44.6)
Urinary Bladder	39.7 (35.4 - 44.3)	334	37.1 (36.8 - 37.4)	35.0 (34.7 - 35.3)
Melanoma of the Skin	28.0 (24.4 - 32.0)	235	29.7 (29.4 - 30.0)	26.6 (26.3 - 26.8)
Non-Hodgkin Lymphoma	23.9 (20.5 - 27.6)	196	22.9 (22.6 - 23.2)	22.4 (22.1 - 22.6)
Kidney and Renal Pelvis	19.0 (16.1 - 22.3)	164	21.7 (21.5 - 22.0)	21.8 (21.5 - 22.0)
Leukemia	18.4 (15.5 - 21.7)	151	17.3 (17.1 - 17.5)	16.8 (16.6 - 17.0)
Oral Cavity and Pharynx	16.8 (14.2 - 19.9)	147	18.0 (17.7 - 18.2)	17.4 (17.2 - 17.7)
Pancreas	14.2 (11.8 - 17.1)	123	14.0 (13.8 - 14.2)	14.2 (14.0 - 14.4)
Esophagus	11.2 (9.0 - 13.7)	100	8.1 (8.0 - 8.3)	7.8 (7.7 - 8.0)
Liver and Intrahepatic Bile Duct	9.0 (7.1 - 11.4)	81	10.9 (10.7 - 11.1)	12.1 (11.9 - 12.2)
Brain and Other Nervous System	8.7 (6.7 - 11.1)	69	8.1 (8.0 - 8.3)	7.6 (7.4 - 7.7)
Thyroid	7.6 (5.7 - 9.9)	60	7.8 (7.6 - 7.9)	7.3 (7.2 - 7.5)
Myeloma	7.4 (5.6 - 9.5)	64	7.1 (6.9 - 7.2)	7.8 (7.7 - 8.0)
Stomach	7.3 (5.5 - 9.5)	59	8.2 (8.0 - 8.3)	9.1 (8.9 - 9.2)
Testis	7.3 (5.2 - 9.9)	41	6.4 (6.3 - 6.5)	5.5 (5.4 - 5.6)
Larynx	5.6 (4.1 - 7.5)	50	5.8 (5.7 - 5.9)	5.9 (5.8 - 6.0)
Hodgkin Lymphoma	4.0 (2.6 - 5.9)	27	2.9 (2.8 - 3.0)	2.9 (2.8 - 3.0)
Mesothelioma	2.1 (1.2 - 3.5)	16	1.8 (1.7 - 1.8)	1.6 (1.6 - 1.7)

Notes:

- ▨ A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- Tobacco-related cancers excluding lung and bronchus defined as laryngeal, oral cavity and pharynx, esophageal, stomach, pancreatic, kidney and renal pelvis, urinary bladder, cervical, colon and rectum, liver and acute myeloid leukemia. Most of these cancers are also reported separately in the table.
- Cancer sites are ordered by descending incidence rates.
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008.
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable.
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
- Subgroup counts might not sum to Maine total due to rounding.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; CINA = NAACCR Cancer in North America (CINA) Plus Standard File.

Data Sources:

- Maine Incidence: Maine CDC Cancer Registry, based on November 2015 NPCR-CSS data submission
- National Incidence: NAACCR Cancer in North America (CINA) Plus Standard File

Age-adjusted Cancer Incidence Rates among Females by Site, Maine, 2013

	Female			
	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
All Cancer Sites	449.4 (435.3 - 463.9)	4,222	418.0 (416.9 - 419.0)	412.6 (411.7 - 413.6)
Breast	126.0 (118.5 - 133.9)	1,159	124.5 (123.9 - 125.1)	123.8 (123.3 - 124.3)
Tobacco-related, Excluding Lung and Bronchus	94.1 (87.9 - 100.7)	917	90.8 (90.3 - 91.2)	92.3 (91.8 - 92.7)
Lung and Bronchus	63.7 (58.7 - 68.9)	640	53.2 (52.8 - 53.6)	51.6 (51.3 - 51.9)
Colon and Rectum	33.4 (29.8 - 37.5)	330	32.9 (32.6 - 33.2)	33.6 (33.4 - 33.9)
Uterus (Corpus Uteri and Uterus, NOS)	29.5 (26.1 - 33.3)	296	26.2 (25.9 - 26.4)	25.8 (25.6 - 26.1)
Thyroid	24.5 (20.9 - 28.6)	183	22.5 (22.3 - 22.8)	21.6 (21.3 - 21.8)
Melanoma of the Skin	22.6 (19.3 - 26.3)	187	18.7 (18.5 - 19.0)	16.2 (16.0 - 16.4)
Non-Hodgkin Lymphoma	16.0 (13.5 - 18.9)	151	15.8 (15.6 - 16.0)	15.3 (15.2 - 15.5)
Kidney and Renal Pelvis	12.2 (10.0 - 14.9)	113	11.3 (11.1 - 11.5)	11.2 (11.0 - 11.3)
Urinary Bladder	12.1 (10.1 - 14.6)	125	9.0 (8.9 - 9.2)	8.6 (8.5 - 8.7)
Pancreas	11.3 (9.3 - 13.7)	119	10.6 (10.5 - 10.8)	10.9 (10.7 - 11.0)
Leukemia	10.4 (8.4 - 12.9)	99	10.5 (10.4 - 10.7)	10.2 (10.1 - 10.4)
Ovary	10.2 (8.2 - 12.7)	95	11.5 (11.3 - 11.6)	11.2 (11.0 - 11.3)
Oral Cavity and Pharynx	7.0 (5.4 - 9.1)	66	6.4 (6.2 - 6.5)	6.3 (6.2 - 6.4)
Cervix Uteri	5.9 (4.2 - 8.0)	44	7.0 (6.9 - 7.2)	7.3 (7.1 - 7.4)
Brain and Other Nervous System	5.3 (3.8 - 7.3)	45	5.9 (5.8 - 6.1)	5.5 (5.4 - 5.6)
Myeloma	5.0 (3.7 - 6.6)	52	4.3 (4.2 - 4.5)	5.1 (5.0 - 5.2)
Stomach	2.9 (1.9 - 4.3)	28	3.9 (3.8 - 4.0)	4.6 (4.5 - 4.7)
Hodgkin Lymphoma	2.5 (1.4 - 4.1)	17	2.4 (2.3 - 2.4)	2.3 (2.2 - 2.3)
Liver and Intrahepatic Bile Duct	2.1 (1.3 - 3.3)	20	3.9 (3.8 - 4.0)	4.2 (4.1 - 4.3)
Larynx	2.1 (1.3 - 3.4)	20	1.3 (1.3 - 1.4)	1.3 (1.2 - 1.3)
Esophagus	1.9 (1.2 - 3.1)	21	1.7 (1.7 - 1.8)	1.8 (1.7 - 1.8)
Mesothelioma	~	~	0.4 (0.4 - 0.5)	0.4 (0.4 - 0.4)

Notes:

- ▨ A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- Tobacco-related cancers excluding lung and bronchus defined as laryngeal, oral cavity and pharynx, esophageal, stomach, pancreatic, kidney and renal pelvis, urinary bladder, cervical, colon and rectum, liver and acute myeloid leukemia. Most of these cancers are also reported separately in the table.
- Cancer sites are ordered by descending incidence rates.
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008.
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable.
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
- Subgroup counts might not sum to Maine total due to rounding.
- ~ Rates and counts are suppressed when count is less than 10 cases.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; CINA = NAACCR Cancer in North America (CINA) Plus Standard File.

Data Sources:
- Maine Incidence: Maine CDC Cancer Registry, based on November 2015 NPCR-CSS data submission
- National Incidence: NAACCR Cancer in North America (CINA) Plus Standard File

Colon and Rectum Cancer: Incidence by Age, Maine, 2011-2013

	Total		Male		Female	
	Crude Rate (95% CI)	*Count/Yr*	*Crude Rate (95% CI)*	*Count/Yr*	*Crude Rate (95% CI)*	*Count/Yr*
35-39 years	15.9 (11.0 - 22.1)	12	17.6 (10.6 - 27.4)	6	14.2 (8.1 - 23.1)	5
40-44 years	19.3 (14.4 - 25.4)	17	19.2 (12.5 - 28.4)	8	19.4 (12.7 - 28.4)	9
45-49 years	23.1 (18.0 - 29.2)	23	23.2 (16.1 - 32.4)	11	23.0 (16.0 - 32.0)	12
50-54 years	58.8 (50.8 - 67.6)	65	76.5 (63.6 - 91.2)	41	41.8 (32.7 - 52.8)	24
55-59 years	51.4 (43.9 - 59.9)	55	60.1 (48.5 - 73.6)	31	43.3 (33.8 - 54.6)	24
60-64 years	66.9 (57.8 - 77.1)	64	81.6 (67.3 - 98.0)	38	53.0 (41.9 - 66.1)	26
65-69 years	118.5 (104.6 - 133.8)	87	145.0 (123.2 - 169.7)	52	93.2 (76.3 - 112.9)	35
70-74 years	162.8 (143.3 - 184.1)	84	176.7 (147.6 - 210.0)	43	150.4 (125.1 - 179.3)	41
75-79 years	203.8 (178.9 - 231.2)	80	205.5 (168.9 - 247.6)	37	202.4 (169.2 - 240.2)	44
80-84 years	266.3 (234.0 - 301.8)	82	299.0 (246.4 - 359.5)	38	243.5 (203.8 - 288.8)	44
85+ years	305.6 (270.8 - 343.7)	93	329.3 (267.9 - 400.5)	33	293.8 (252.4 - 340.2)	60
Maine All Ages*	50.3 (48.1 - 52.6)	668	52.8 (49.6 - 56.1)	343	47.9 (45.0 - 51.0)	325

Notes:

- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008.
- Age-specific (crude) rates are calculated per 100,000 population.
- *Crude (not age-adjusted) rate displayed for "All ages."
- "Maine All Ages" includes cases where age is less than 35 years.
- Abbreviations: CI = Confidence Interval; Count/Yr = Average Annual Count.
- Subgroup counts might not sum to Maine total due to rounding.

Data Sources:

- Maine CDC Cancer Registry, based on November 2015 NPCR-CSS data submission

Colon and Rectum: Incidence by County of Residence, Maine, 2011-2013

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	36.3 (30.4 - 43.0)	47	40.2 (31.2 - 51.1)	24	33.0 (25.5 - 42.1)	23
Aroostook	40.3 (33.3 - 48.5)	42	43.9 (33.3 - 57.1)	21	36.4 (27.7 - 47.5)	21
Cumberland	36.9 (33.3 - 40.9)	130	44.9 (38.8 - 51.7)	68	31.1 (26.7 - 36.2)	63
Franklin	32.0 (22.7 - 44.4)	14	34.6 (20.9 - 54.8)	7	32.1 (19.1 - 51.4)	7
Hancock	45.5 (36.9 - 55.7)	36	50.3 (37.5 - 66.6)	19	41.3 (30.2 - 55.7)	17
Kennebec	36.0 (30.7 - 42.0)	58	39.0 (31.1 - 48.5)	29	33.3 (26.3 - 41.7)	28
Knox	35.3 (27.0 - 45.8)	22	45.1 (31.5 - 63.3)	13	25.5 (16.6 - 38.9)	9
Lincoln	37.1 (27.7 - 49.2)	20	46.1 (31.3 - 66.5)	12	29.1 (17.9 - 45.9)	9
Oxford	39.8 (32.0 - 49.1)	32	36.6 (25.9 - 50.6)	14	42.7 (31.9 - 56.5)	18
Penobscot	37.8 (32.7 - 43.4)	70	35.5 (28.5 - 43.9)	31	39.2 (32.3 - 47.3)	39
Piscataquis	38.8 (26.0 - 56.9)	11	46.2 (27.1 - 76.7)	6	29.8 (15.1 - 56.0)	4
Sagadahoc	30.7 (22.0 - 42.0)	15	34.6 (20.8 - 54.5)	7	25.7 (16.1 - 40.1)	8
Somerset	41.3 (32.9 - 51.5)	29	44.8 (32.3 - 61.0)	15	38.4 (27.5 - 52.9)	14
Waldo	41.6 (32.2 - 53.3)	23	39.1 (26.1 - 57.0)	10	43.5 (30.7 - 60.8)	13
Washington	55.8 (43.8 - 70.5)	27	68.0 (49.0 - 92.7)	15	44.6 (30.3 - 64.4)	12
York	36.1 (31.9 - 40.7)	93	44.7 (37.9 - 52.5)	53	28.3 (23.3 - 34.2)	40
Maine	38.1 (36.4 - 39.9)	668	42.9 (40.3 - 45.7)	343	33.9 (31.8 - 36.2)	325

Colon and Rectum: Incidence by Public Health District of Residence, Maine, 2011-2013

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	40.3 (33.3 - 48.5)	42	43.9 (33.3 - 57.1)	21	36.4 (27.7 - 47.5)	21
Central	38.1 (33.2 - 43.5)	76	42.0 (34.5 - 50.7)	39	34.8 (28.5 - 42.2)	37
Cumberland	36.9 (33.3 - 40.9)	130	44.9 (38.8 - 51.7)	68	31.1 (26.7 - 36.2)	63
Downeast	49.6 (42.4 - 57.7)	63	57.3 (46.2 - 70.4)	34	42.6 (33.6 - 53.7)	29
Midcoast	36.0 (31.4 - 41.1)	80	41.4 (34.2 - 49.8)	42	30.5 (25.0 - 37.1)	39
Penquis	37.9 (33.2 - 43.2)	81	37.2 (30.4 - 45.0)	37	38.1 (31.7 - 45.6)	44
Western	36.6 (32.3 - 41.3)	92	37.9 (31.5 - 45.2)	44	35.9 (30.1 - 42.5)	48
York	36.1 (31.9 - 40.7)	93	44.7 (37.9 - 52.5)	53	28.3 (23.3 - 34.2)	40
Maine	38.1 (36.4 - 39.9)	668	42.9 (40.3 - 45.7)	343	33.9 (31.8 - 36.2)	325

Notes:

- ▮ A shaded cell indicates that the County/District rate is significantly higher than the Maine rate.
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008.
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; Count/Yr = Average Annual Count
- Subgroup counts might not sum to Maine total due to rounding.

Data Sources:

- Maine CDC Cancer Registry, based on November 2015 NPCR-CSS data submission

CANCER INCIDENCE TRENDS

Age-adjusted Incidence of all Malignant Cancers, Maine 1995-2013

Cancer Incidence Rate: All Malignant Cancers, by Sex, Maine 1995-2013

Age-adjusted cancer incidence, per 100,000 population

Year of diagnosis

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Total	481	494	510	518	511	531	541	535	528	545	534	545	528	513	499	493	484	479	464
Male	562	586	610	618	616	626	651	634	628	639	613	631	612	580	559	553	535	519	487
Female	431	437	446	453	441	465	467	467	459	474	479	484	467	464	456	452	446	451	449
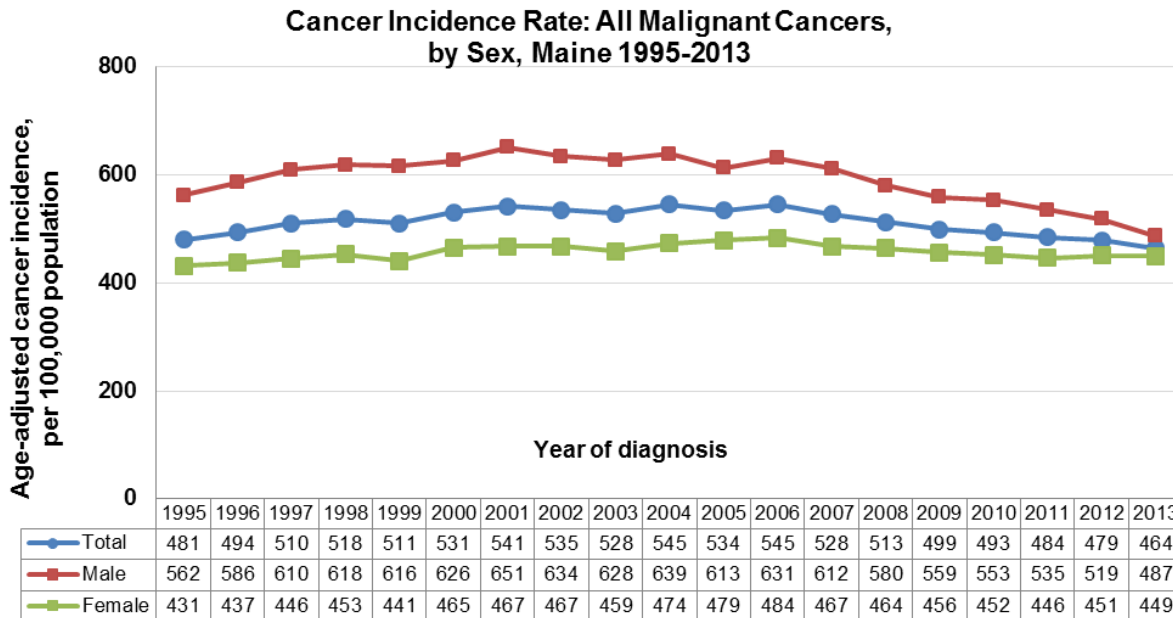
	Total		Male		Female	
	AA Rate (95% CI)	Count	AA Rate (95% CI)	Count	AA Rate (95% CI)	Count
1995	480.5 (468.7 - 492.5)	6,325	562.4 (542.8 - 582.6)	3,202	431.1 (415.9 - 446.7)	3,123
1996	494.0 (482.1 - 506.1)	6,591	585.5 (565.6 - 605.9)	3,370	437.4 (422.2 - 453.0)	3,221
1997	510.2 (498.2 - 522.4)	6,925	609.6 (589.5 - 630.3)	3,568	445.5 (430.4 - 461.0)	3,357
1998	517.8 (505.8 - 530.0)	7,117	618.2 (598.1 - 638.8)	3,679	453.2 (438.1 - 468.8)	3,438
1999	510.6 (498.8 - 522.5)	7,164	616.4 (596.6 - 636.7)	3,753	441.0 (426.2 - 456.2)	3,411
2000	530.6 (518.7 - 542.7)	7,582	625.9 (606.2 - 646.0)	3,921	464.8 (449.7 - 480.3)	3,661
2001	541.4 (529.4 - 553.5)	7,852	650.8 (630.9 - 671.2)	4,140	467.3 (452.2 - 482.7)	3,712
2002	534.6 (522.9 - 546.6)	7,894	633.9 (614.5 - 653.8)	4,130	467.1 (452.2 - 482.5)	3,764
2003	528.4 (516.8 - 540.3)	7,933	627.8 (608.7 - 647.4)	4,181	458.5 (443.8 - 473.6)	3,752
2004	544.7 (533.0 - 556.6)	8,347	639.1 (620.1 - 658.6)	4,400	473.5 (458.6 - 488.7)	3,947
2005	534.0 (522.5 - 545.7)	8,305	612.9 (594.3 - 631.8)	4,268	479.3 (464.4 - 494.6)	4,037
2006	544.8 (533.2 - 556.5)	8,628	630.8 (612.2 - 649.9)	4,498	483.5 (468.6 - 498.8)	4,130
2007	527.8 (516.5 - 539.3)	8,542	611.9 (593.8 - 630.5)	4,486	467.2 (452.6 - 482.1)	4,056
2008	512.8 (501.7 - 524.0)	8,472	579.6 (562.2 - 597.4)	4,370	464.4 (450.0 - 479.2)	4,102
2009	499.1 (488.2 - 510.1)	8,356	558.6 (541.6 - 576.0)	4,277	456.2 (441.9 - 470.8)	4,079
2010	493.4 (482.6 - 504.3)	8,385	553.1 (536.4 - 570.3)	4,335	451.5 (437.3 - 466.1)	4,050
2011	484.0 (473.4 - 494.8)	8,336	535.4 (519.0 - 552.2)	4,261	446.4 (432.3 - 460.9)	4,075
2012	478.7 (468.2 - 489.3)	8,481	518.7 (502.8 - 535.1)	4,271	451.1 (437.0 - 465.6)	4,210
2013	463.8 (453.5 - 474.2)	8,366	487.1 (471.9 - 502.7)	4,144	449.4 (435.3 - 463.9)	4,222

Notes: Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
Data Source: Maine Incidence: Maine CDC Cancer Registry, based on November 2015 NPCR-CSS data submission

Age-adjusted Obesity-related Cancers: Incidence by Anatomic Site, Maine and U.S., 2013

	MAINE		U.S.	
	AA Rate (95% CI)	*Count*	*U.S. Whites*	*U.S. All races*
Both Sexes				
Colon and Rectum	37.4 (34.6 - 40.4)	686	38.1 (37.9 - 38.3)	38.5 (38.3 - 38.7)
Esophagus, Adenocarcinoma	4.7 (3.8 - 5.9)	93	3.3 (3.2 - 3.3)	2.8 (2.8 - 2.9)
Kidney and Renal Pelvis	15.5 (13.7 - 17.6)	277	16.2 (16.1 - 16.4)	15.9 (15.8 - 16.1)
Pancreas	12.7 (11.2 - 14.5)	242	12.2 (12.1 - 12.4)	12.3 (12.2 - 12.4)
Male				
Colon and Rectum	41.8 (37.5 - 46.6)	356	43.7 (43.3 - 44.1)	44.3 (43.9 - 44.6)
Esophagus, Adenocarcinoma	9.0 (7.1 - 11.3)	81	6.1 (5.9 - 6.2)	5.4 (5.2 - 5.5)
Kidney and Renal Pelvis	19.0 (16.1 - 22.3)	164	21.8 (21.6 - 22.1)	21.6 (21.4 - 21.8)
Pancreas	14.2 (11.8 - 17.1)	123	14.1 (13.9 - 14.3)	14.1 (13.9 - 14.3)
Female				
Colon and Rectum	33.4 (29.8 - 37.5)	330	33.3 (33.1 - 33.6)	33.6 (33.3 - 33.9)
Esophagus, Adenocarcinoma	1.1 (0.6 - 2.1)	12	0.9 (0.8 - 0.9)	0.8 (0.7 - 0.8)
Kidney and Renal Pelvis	12.2 (10.0 - 14.9)	113	11.3 (11.2 - 11.5)	11.1 (10.9 - 11.2)
Pancreas	11.3 (9.3 - 13.7)	119	10.7 (10.5 - 10.8)	10.8 (10.7 - 11.0)
Breast, post-menopausal	333.4 (312.3 - 355.4)	961	341.7 (340.0 - 343.4)	333.7 (332.2 - 335.2)
Uterus (Corpus Uteri and Uterus, NOS)	29.5 (26.1 - 33.3)	296	26.6 (26.3 - 26.8)	25.9 (25.6 - 26.1)

Notes:

-             A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- Obesity-related cancers defined as cancers of colon and rectum, esophagus (adenocarcinoma), kidney and renal pelvis, pancreas, corpus uteri, and breast (post-menopausal). Post-menopausal breast cancer cases include malignant breast cancer cases diagnosed among females age 50 years or greater. Further detail provided in Appendix 2.
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008.
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable.
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; SEER = Surveillance, Epidemiology, and End Results; Count = Average Annual Count.
- Cancer sites are ordered by sex-specific cancers and then alphabetically.
- Subgroup counts might not sum to Maine total due to rounding.

Data Sources:

- Maine CDC Cancer Registry, based on November 2015 NPCR-CSS data submission
- SEER*Stat Database: NPCR and SEER Incidence – Analytic file - 1998-2013 - jbk 051916.

Age-adjusted Human Papillomavirus (HPV)-associated Cancers: Incidence by Anatomic Site, Maine and U.S., 2013

	MAINE		U.S.	
	AA Rate (95% CI)	Count	U.S. Whites	U.S. All races
Both Sexes				
Anus	1.4 (0.9 - 2.0)	26	1.6 (1.6 - 1.7)	1.5 (1.5 - 1.6)
Oral Cavity and Oropharynx (limited sites including base of tongue, tonsils and other oropharynx	5.1 (4.1 - 6.3)	96	4.9 (4.8 - 5.0)	4.5 (4.4 - 4.6)
Rectum	7.6 (6.4 - 9.0)	144	8.2 (8.1 - 8.3)	8.3 (8.2 - 8.4)
Male				
Penis	1.5 (0.8 - 2.7)	13	0.8 (0.8 - 0.9)	0.8 (0.8 - 0.9)
Anus	0.9 (0.3 - 1.9)	6	1.1 (1.1 - 1.2)	1.2 (1.1 - 1.2)
Oral Cavity and Oropharynx (limited sites including base of tongue, tonsils and other oropharynx)	8.5 (6.7 - 10.7)	78	8.3 (8.2 - 8.5)	7.7 (7.6 - 7.9)
Rectum	10.8 (8.7 - 13.2)	98	10.4 (10.3 - 10.6)	8.3 (8.2 - 8.4)
Female				
Cervix	5.9 (4.2 - 8.0)	44	7.2 (7.0 - 7.3)	7.3 (7.2 - 7.4)
Vagina	0.6 (0.2 - 1.4)	6	0.4 (0.4 - 0.5)	0.4 (0.4 - 0.5)
Vulva	3.6 (2.5 - 5.1)	35	2.2 (2.1 - 2.2)	2.0 (2.0 - 2.1)
Anus	1.9 (1.1 - 3.0)	20	2.1 (2.0 - 2.1)	1.9 (1.8 - 1.9)
Oral Cavity and Oropharynx (limited sites including base of tongue, tonsils and other oropharynx)	2.0 (1.2 - 3.3)	18	1.7 (1.6 - 1.7)	1.6 (1.5 - 1.6)
Rectum	4.6 (3.3 - 6.3)	46	6.3 (6.2 - 6.4)	6.4 (6.3 - 6.5)

Notes:

- A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- HPV-associated Cancers defined as all carcinomas of the Cervix, and squamous cell carcinomas for vagina, vulva, penis, anus, rectum and oropharynx. Oral cavity and oropharyngeal cancers are limited to the subsites specified in Appendix 2.
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008.
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable.
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; SEER = Surveillance, Epidemiology, and End Results; Count = Annual Count.
- Cancer sites are ordered by sex-specific cancers and then alphabetically.
- Subgroup counts might not sum to Maine total due to rounding.

Data Sources:

- Maine CDC Cancer Registry, based on November 2015 NPCR-CSS data submission
- SEER*Stat Database: NPCR and SEER Incidence – Analytic file - 1998-2013 - jbk 051916.

Age-adjusted Cancer Mortality Rate by Site, Maine 2013

	Total			
	Maine		U.S.	
	AA Rate (95% CI)	Count	U.S. Whites	U.S. All Races
All Malignant Cancers	174.8 (168.7 - 181.1)	3,227	163.3 (162.9 - 163.8)	163.0 (162.6 - 163.4)
Lung and Bronchus	55.1 (51.7 - 58.7)	1,025	44.1 (43.9 - 44.3)	43.4 (43.2 - 43.6)
Tobacco-related, Excluding Lung and Bronchus	50.6 (47.4 - 54.1)	940	52.4 (52.1 - 52.6)	53.0 (52.8 - 53.3)
Colon and rectum	12.5 (10.9 - 14.3)	230	14.1 (14.0 - 14.3)	14.5 (14.3 - 14.6)
Female Breast	See page 34 for gender specific rates			
Prostate	See page 33 for gender specific rates			
Pancreas	10.9 (9.4 - 12.5)	204	10.7 (10.6 - 10.8)	10.8 (10.7 - 10.9)
Non-Hodgkin Lymphoma	6.4 (5.2 - 7.7)	115	5.9 (5.9 - 6.0)	5.7 (5.6 - 5.8)
Leukemia	6.2 (5.1 - 7.5)	114	7.0 (6.9 - 7.1)	6.7 (6.7 - 6.8)
Esophagus	5.4 (4.4 - 6.6)	101	4.2 (4.1 - 4.3)	4.0 (4.0 - 4.1)
Urinary Bladder	5.1 (4.1 - 6.3)	95	4.7 (4.6 - 4.7)	4.4 (4.4 - 4.5)
Liver and Intrahepatic Bile Duct	5.1 (4.1 - 6.3)	93	6.0 (5.9 - 6.1)	6.5 (6.4 - 6.5)
Brain and Other Nervous System	4.4 (3.5 - 5.6)	80	4.7 (4.7 - 4.8)	4.3 (4.3 - 4.4)
Kidney and Renal Pelvis	4.1 (3.2 - 5.2)	78	4.0 (3.9 - 4.1)	3.9 (3.8 - 3.9)
Melanoma of the Skin	3.2 (2.4 - 4.1)	59	3.1 (3.0 - 3.2)	2.7 (2.6 - 2.7)
Oral Cavity and Pharynx	2.9 (2.1 - 3.8)	51	2.4 (2.3 - 2.4)	2.4 (2.4 - 2.5)
Myeloma	2.7 (2.0 - 3.6)	50	3.1 (3.0 - 3.1)	3.3 (3.3 - 3.4)
Acute Myeloid Leukemia	2.6 (1.9 - 3.5)	46	2.9 (2.8 - 3.0)	2.8 (2.7 - 2.8)
Stomach	1.7 (1.1 - 2.5)	31	2.8 (2.7 - 2.9)	3.2 (3.1 - 3.2)
Larynx	1.4 (1.0 - 2.1)	29	1.0 (0.9 - 1.0)	1.0 (1.0 - 1.0)
Thyroid	~	~	0.5 (0.5 - 0.5)	0.5 (0.5 - 0.5)
Ovary	See page 34 for gender specific rates			
Corpus Uteri	See page 34 for gender specific rates			
Cervix Uteri	See page 34 for gender specific rates			
Testis	See page 33 for gender specific rates			

Notes:

- ▓ A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- Mortality case definitions are based on ICD-10 codes (See Appendix 3).
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval.
- Tobacco-related cancers, excluding lung and bronchus defined as laryngeal, oral cavity and pharynx, esophageal, stomach, pancreatic, kidney and renal pelvis, urinary bladder, cervical, colon and rectum, liver and acute myeloid leukemia.
- ~ Rates and counts are suppressed for privacy due to fewer than 10 cases.

Data Sources:

- Maine and U.S. Mortality: National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2013)

Age-adjusted Cancer Mortality Rates among Males by Site, Maine 2013

	Male			
	Maine		**U.S.**	
	AA Rate (95% CI)	**Count**	**U.S. Whites**	**U.S. All Races**
All Malignant Cancers	213.4 (203.3 - 224.0)	1,732	195.7 (194.9 - 196.5)	196.2 (195.5 - 196.9)
Tobacco-related, Excluding Lung and Bronchus	68.6 (62.9 - 74.7)	566	70.6 (70.2 - 71.1)	71.4 (71.0 - 71.8)
Lung and Bronchus	67.7 (62.1 - 73.7)	563	53.8 (53.5 - 54.2)	53.9 (53.5 - 54.2)
Prostate	23.2 (19.8 - 27.0)	173	18.0 (17.7 - 18.2)	19.2 (19.0 - 19.5)
Colon and rectum	14.3 (11.7 - 17.3)	113	16.9 (16.6 - 17.1)	17.3 (17.1 - 17.5)
Pancreas	11.0 (8.8 - 13.6)	94	12.4 (12.2 - 12.6)	12.4 (12.2 - 12.6)
Esophagus	10.2 (8.1 - 12.7)	86	7.5 (7.4 - 7.7)	7.1 (7.0 - 7.3)
Leukemia	8.3 (6.4 - 10.7)	66	9.4 (9.2 - 9.6)	9.1 (8.9 - 9.2)
Urinary Bladder	8.1 (6.2 - 10.4)	64	8.1 (8.0 - 8.3)	7.7 (7.5 - 7.8)
Non-Hodgkin Lymphoma	7.9 (6.0 - 10.3)	59	7.7 (7.5 - 7.8)	7.4 (7.2 - 7.5)
Liver and Intrahepatic Bile Duct	7.9 (6.1 - 10.2)	66	8.8 (8.6 - 8.9)	9.5 (9.4 - 9.7)
Kidney and Renal Pelvis	6.3 (4.7 - 8.4)	54	5.8 (5.6 - 5.9)	5.6 (5.5 - 5.7)
Brain and Other Nervous System	5.4 (3.9 - 7.3)	46	5.6 (5.5 - 5.8)	5.2 (5.1 - 5.3)
Oral Cavity and Pharynx	5.1 (3.6 - 7.0)	41	3.7 (3.6 - 3.8)	3.7 (3.6 - 3.8)
Melanoma of the Skin	4.3 (3.0 - 6.1)	36	4.6 (4.5 - 4.7)	4.0 (3.9 - 4.1)
Myeloma	3.2 (2.1 - 4.8)	25	4.0 (3.9 - 4.1)	4.2 (4.1 - 4.3)
Acute Myeloid Leukemia	2.9 (1.8 - 4.4)	23	3.8 (3.7 - 3.9)	3.7 (3.6 - 3.8)
Stomach	2.4 (1.4 - 3.8)	19	3.8 (3.7 - 3.9)	4.3 (4.2 - 4.4)
Larynx	2.3 (1.4 - 3.6)	22	1.7 (1.7 - 1.8)	1.8 (1.8 - 1.9)
Thyroid	~	~	0.5 (0.5 - 0.6)	0.5 (0.5 - 0.6)
Testis	~	~	0.3 (0.3 - 0.3)	0.2 (0.2 - 0.3)
Breast	~	~	0.3 (0.3 - 0.3)	0.3 (0.3 - 0.3)

Notes:

- ▢ A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- Mortality case definitions are based on ICD-10 codes (See Appendix 3).
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval.
- Tobacco-related cancers, excluding lung and bronchus defined as laryngeal, oral cavity and pharynx, esophageal, stomach, pancreatic, kidney and renal pelvis, urinary bladder, cervical, colon and rectum, liver and acute myeloid leukemia.
- ~ Rates and counts are suppressed for privacy due to fewer than 10 cases.

Data Sources:

- Maine and U.S. Mortality: National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2013)

Age-adjusted Cancer Mortality Rates among Females by Site, Maine 2013

	Female			
	Maine		**U.S.**	
	AA Rate (95% CI)	**Count**	**U.S. Whites**	**U.S. All Races**
All Malignant Cancers	146.3 (138.8 - 154.2)	1,495	139.7 (139.1 - 140.3)	139.1 (138.5 - 139.6)
Lung and Bronchus	45.7 (41.5 - 50.2)	462	36.6 (36.3 - 36.9)	35.4 (35.2 - 35.7)
Tobacco-related, Excluding Lung and Bronchus	36.0 (32.3 - 40.0)	374	37.6 (37.3 - 37.9)	38.5 (38.2 - 38.8)
Breast	18.7 (16.0 - 21.7)	186	20.3 (20.0 - 20.5)	20.7 (20.5 - 20.9)
Colon and rectum	11.1 (9.1 - 13.4)	117	11.9 (11.7 - 12.0)	12.1 (12.0 - 12.3)
Pancreas	10.6 (8.7 - 12.9)	110	9.3 (9.1 - 9.4)	9.4 (9.3 - 9.6)
Non-Hodgkin Lymphoma	5.1 (3.9 - 6.8)	56	4.6 (4.5 - 4.7)	4.4 (4.3 - 4.5)
Ovary	5.1 (3.8 - 6.8)	53	7.5 (7.4 - 7.6)	7.2 (7.1 - 7.3)
Leukemia	4.5 (3.3 - 6.2)	48	5.2 (5.1 - 5.3)	5.0 (4.9 - 5.1)
Corpus Uteri, Uterus NOS	4.2 (3.0 - 5.7)	44	4.3 (4.2 - 4.4)	4.6 (4.5 - 4.7)
Brain and Other Nervous System	3.7 (2.5 - 5.3)	34	4.0 (3.9 - 4.1)	3.6 (3.5 - 3.7)
Urinary Bladder	2.9 (2.0 - 4.3)	31	2.2 (2.1 - 2.2)	2.1 (2.1 - 2.2)
Liver and Intrahepatic Bile Duct	2.7 (1.8 - 4.1)	27	3.6 (3.5 - 3.7)	3.8 (3.8 - 3.9)
Kidney and Renal Pelvis	2.3 (1.4 - 3.5)	24	2.5 (2.5 - 2.6)	2.5 (2.4 - 2.5)
Melanoma of the Skin	2.3 (1.5 - 3.7)	23	1.9 (1.8 - 2.0)	1.6 (1.6 - 1.7)
Myeloma	2.3 (1.5 - 3.5)	25	2.4 (2.3 - 2.5)	2.7 (2.6 - 2.7)
Acute Myeloid Leukemia	2.2 (1.4 - 3.5)	23	2.2 (2.2 - 2.3)	2.1 (2.1 - 2.2)
Esophagus	1.4 (0.8 - 2.4)	15	1.5 (1.4 - 1.5)	1.5 (1.4 - 1.5)
Cervix Uteri	1.3 (0.6 - 2.5)	11	2.2 (2.1 - 2.2)	2.3 (2.3 - 2.4)
Stomach	1.2 (0.6 - 2.3)	12	2.0 (1.9 - 2.1)	2.3 (2.2 - 2.3)
Oral Cavity and Pharynx	0.9 (0.4 - 1.9)	10	1.3 (1.2 - 1.3)	1.3 (1.2 - 1.4)
Larynx	~	~	0.4 (0.3 - 0.4)	0.4 (0.3 - 0.4)
Thyroid	~	~	0.5 (0.4 - 0.5)	0.5 (0.5 - 0.5)

Notes:

- ▪ A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- Mortality case definitions are based on ICD-10 codes (See Appendix 3).
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; NOS = Not otherwise specified
- Tobacco-related cancers, excluding lung and bronchus defined as laryngeal, oral cavity and pharynx, esophageal, stomach, pancreatic, kidney and renal pelvis, urinary bladder, cervical, colon and rectum, liver and acute myeloid leukemia.
- ~ Rates and counts are suppressed for privacy due to fewer than 10 cases.

Data Sources:

- Maine and U.S. Mortality: National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2013)

Table Shell 22. Cancer deaths by year, Maine, U.S. and U.S. Whites, 2000-2012. [*]

Year	Maine					U.S.					U.S. Whites				
	Number	Crude		Age-adjusted		Number	Crude		Age-adjusted		Number	Crude		Age-adjusted	
		Rate	95% CI	Rate	95% CI		Rate	95% CI	Rate	95% CI		Rate	95% CI	Rate	95% CI
2000															
2001															
2002															
2003															
2004															
2005															
2006															
2007															
2008															
2009															
2010															
2011															
2012															

Data Source: Underlying mortality data provided by National Center for Health Statistics. Rates are calculated using SEER*Stat Version 8.1.5.

95% CI: 95% confidence interval of the rate.

Cancer Deaths: Deaths with malignant cancer as the underlying cause of death.

All cancer: SEER Cause of Death Recode: ... (which include ICD-10 codes: ...).

Crude Rates are deaths per 100,000 population.

Age-adjusted rates are deaths per 100,000 population age-adjusted to the U.S. 2000 standard population.

Table Shell 23. Cancer deaths by year and sex, Maine, U.S. and U.S. Whites, 2000-2012.

Year	Maine Overall					Females					Males				
	Number	Crude		Age-adjusted		Number	Crude		Age-adjusted		Number	Crude		Age-adjusted	
		Rate	95% CI	Rate	95% CI		Rate	95% CI	Rate	95% CI		Rate	95% CI	Rate	95% CI
2000															
2001															
2002															
2003															
2004															
2005															
2006															
2007															
2008															
2009															
2010															
2011															
2012															
U.S. 2012															
U.S. Whites 2012															

Data Source: Underlying mortality data provided by National Center for Health Statistics. Rates are calculated using SEER*Stat Version 8.1.5.

95% CI: 95% confidence interval of the rate.

Cancer Deaths: Deaths with malignant cancer as the underlying cause of death.

All cancer: SEER Cause of Death Recode: ... (which include ICD-10 codes: ...).

Crude Rates are deaths per 100,000 population.

Age-adjusted rates are deaths per 100,000 population age-adjusted to the U.S. 2000 standard population.

Subgroup counts might not sum to Maine total due to missing data.

Table Shell 24. Lung Cancer Mortality by age groups and sex, Maine, 2013-2015

Age Groups	Females			Males			Total		
	Number	Rate	95% CI	Number	Rate	95% CI	Number	Rate	95% CI
<25 years									
25-34 years									
35-44 years									
45-54 years									
55-64 years									
65-74 years									
75-84 years									
85+ years									
Total									

Data Source: Underlying mortality data provided by National Center for Health Statistics.

95% CI: 95% confidence interval of the rate.

Lung cancer: SEER cause of Death Recode: 22030 (which include ICD-10 code: C34)

Crude Rates are deaths per 100,000 population.

Age-adjusted rates are not calculated for age-specific groups.

† Interpret with caution; these rates are based on a numerator of less than 20.

All Cancers: Mortality by County of Residence, Maine 2009-2013

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	188.0 (177.4 - 199.1)	242	231.5 (213.7 - 250.5)	130	156.5 (143.6 - 170.4)	112
Aroostook	188.2 (176.5 - 200.7)	200	229.2 (209.9 - 250.0)	109	158.7 (143.8 - 174.9)	92
Cumberland	173.3 (167.1 - 179.7)	607	208.7 (198.1 - 219.8)	304	150.4 (142.7 - 158.5)	303
Franklin	167.5 (149.8 - 186.8)	69	192.4 (164.5 - 224.1)	36	145.5 (123.6 - 170.8)	32
Hancock	165.4 (152.9 - 178.8)	136	197.8 (177.4 - 220.2)	73	142.3 (126.6 - 159.7)	63
Kennebec	193.2 (183.5 - 203.3)	308	238.2 (221.9 - 255.3)	167	160.1 (148.2 - 172.8)	140
Knox	169.4 (155.1 - 184.9)	108	215.6 (191.6 - 242.2)	61	133.9 (116.6 - 153.5)	47
Lincoln	170.6 (155.4 - 187.2)	99	200.6 (176.6 - 227.5)	53	150.2 (130.2 - 172.9)	46
Oxford	189.0 (175.6 - 203.2)	154	233.2 (211.1 - 257.1)	86	156.7 (140.1 - 175.0)	68
Penobscot	187.5 (178.8 - 196.6)	355	231.0 (216.2 - 246.4)	191	156.3 (145.6 - 167.7)	164
Piscataquis	194.0 (170.8 - 220.1)	53	228.6 (191.6 - 271.8)	29	162.4 (134.2 - 196.2)	24
Sagadahoc	173.6 (156.8 - 191.8)	82	196.8 (170.1 - 226.9)	41	156.5 (135.3 - 180.6)	41
Somerset	200.2 (185.4 - 216.0)	139	243.0 (218.5 - 269.6)	76	165.0 (147.1 - 184.8)	63
Waldo	180.1 (163.7 - 197.8)	93	213.3 (186.5 - 243.2)	49	156.2 (135.7 - 179.2)	45
Washington	216.7 (198.6 - 236.2)	110	273.1 (242.7 - 306.8)	61	173.0 (151.4 - 197.5)	49
York	173.7 (166.5 - 181.2)	451	211.1 (199.0 - 223.8)	238	146.6 (137.7 - 155.9)	213
Maine	181.4 (178.5 - 184.3)	3,207	220.6 (215.8 - 225.4)	1,703	153.0 (149.5 - 156.6)	1,504

All Cancers: Mortality by Public Health District of Residence, Maine 2009-2013

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	188.2 (176.5 - 200.7)	200	229.2 (209.9 - 250.0)	109	158.7 (143.8 - 174.9)	92
Central	195.2 (187.1 - 203.6)	447	239.5 (225.9 - 253.7)	244	161.6 (151.6 - 172.1)	203
Cumberland	173.3 (167.1 - 179.7)	607	208.7 (198.1 - 219.8)	304	150.4 (142.7 - 158.5)	303
Downeast	184.9 (174.5 - 195.8)	246	227.1 (209.7 - 245.6)	134	153.3 (140.6 - 167.2)	112
Midcoast	173.0 (165.2 - 181.2)	383	206.7 (193.9 - 220.2)	203	148.2 (138.3 - 158.7)	179
Penquis	188.4 (180.2 - 196.9)	408	230.3 (216.6 - 244.6)	220	157.3 (147.2 - 167.9)	188
Western	184.8 (177.3 - 192.6)	464	225.2 (212.6 - 238.3)	252	154.9 (145.6 - 164.8)	213
York	173.7 (166.5 - 181.2)	451	211.1 (199.0 - 223.8)	238	146.6 (137.7 - 155.9)	213
Maine	181.4 (178.5 - 184.3)	3,207	220.6 (215.8 - 225.4)	1,703	153.0 (149.5 - 156.6)	1,504

Notes:

- A shaded cell indicates that the County/District rate is significantly higher than the Maine rate.
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; Count/Yr = Average Annual Count
- Subgroup counts might not sum to Maine total due to rounding.

Data Source:

- National Center for Health Statistics, All Causes of Death, Public-Use with County, Total U.S. (1969-2013)

Table Shell 27. Selected cancer stage at diagnosis by age group and sex, Maine and U.S., 2012-2014

Stage at Diagnosis	Adults <55 years old												Adults ≥55 years old											
	Maine						U.S. Whites						Maine						U.S. Whites					
	Avg Annual N	Percentage		Age-adjusted rate		Avg Annual N	Percentage		Age-adjusted rate		Avg Annual N	Percentage		Age-adjusted rate		Avg Annual N	Percentage		Age-adjusted rate	
		% of Total	95% CI	Rate	95% CI		% of Total	95% CI	Rate	95% CI		% of Total	95% CI	Rate	95% CI		% of Total	95% CI	Rate	95% CI
Maine Total																				
Early Stage																				
Late Stage																				
Unknown																				
Overall																				
Females																				
Early Stage																				
Late Stage																				
Unknown																				
Overall																				
Males																				
Early Stage																				
Late Stage																				
Unknown																				
Overall																				

Data source: Maine Cancer Registry and CINA

Avg Annual N: Average annual number.

Late stage includes regional and distant stages.

Early stage includes in situ and localized stages.

Age-adjusted rate are new cases per 100,000 population age-adjusted to the U.S. 2000 standard population.

Subgroup counts may not sum to total due to missing data.

Table Shell 28. Selected cancer stage at diagnosis by year of diagnosis among adults aged ≥55 years, Maine and U.S., 2000-2014

Year	Early stage Avg Annual N	Percentage % of Total	95% CI	Age-adjusted rate Rate	95% CI	Late stage Avg Annual N	Percentage % of Total	95% CI	Age-adjusted rate Rate	95% CI	Unkown Avg Annual N	Percentage % of Total	95% CI	Age-adjusted rate Rate	95% CI	Overall Avg Annual N	Percentage % of Total	95% CI	Age-adjusted rate Rate	95% CI
2000-2002																				
2001-2003																				
2002-2004																				
2003-2005																				
2004-2006																				
2005-2007																				
2006-2008																				
2007-2009																				
2008-2010																				
2009-2011																				
2010-2012																				
2011-2013																				
2012-2014																				
U.S. CINA 2012-2014																				

Data source: Maine Cancer Registry and CINA

Avg Annual N: Average annual number.

Late stage includes regional and distant stages.

Early stage includes in situ and localized stages.

Age-adjusted rate are new cases per 100,000 population age-adjusted to the U.S. 2000 standard population.

Subgroup counts may not sum to total due to missing data.

APPENDIX 2

INCIDENCE CASE DEFINITIONS

Incidence data are based on SEER site recode ICD-O-3/WHO 2008 definitions, version 2008. Available at: http://www.seer.cancer.gov/siterecode/icdo3_dwhoheme/index.html. The primary site reported is the site of origin and not the metastatic site. In general, the incidence rate does not include recurrences. The number of cancers may include multiple primary cancers occurring in one patient.

Site Recode ICD-O-3/WHO 2008 Definition*^

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)	Recode
Oral Cavity and Pharynx			
Lip	C000-C009	excluding 9050-9055, 9140, 9590-9992	20010
Tongue	C019-C029		20020
Salivary Gland	C079-C089		20030
Floor of Mouth	C040-C049		20040
Gum and Other Mouth	C030-C039, C050-C059, C060-C069		20050
Nasopharynx	C110-C119		20060
Tonsil	C090-C099		20070
Oropharynx	C100-C109		20080
Hypopharynx	C129, C130-C139		20090
Other Oral Cavity and Pharynx	C140, C142-C148		20100
Digestive System			
Esophagus	C150-C159	excluding 9050-9055, 9140, 9590-9992	21010
Stomach	C160-C169		21020
Small Intestine	C170-C179		21030
Colon and Rectum			
Colon excluding Rectum			
Cecum	C180	excluding 9050-9055, 9140, 9590-9992	21041
Appendix	C181		21042
Ascending Colon	C182		21043
Hepatic Flexure	C183		21044
Transverse Colon	C184		21045
Splenic Flexure	C185		21046
Descending Colon	C186		21047
Sigmoid Colon	C187		21048
Large Intestine, NOS	C188-C189, C260		21049
Rectum and Rectosigmoid Junction			
Rectosigmoid Junction	C199	excluding 9050-9055, 9140, 9590-9992	21051
Rectum	C209		21052
Anus, Anal Canal and Anorectum	C210-C212, C218		21060
Liver and Intrahepatic Bile Duct			
Liver	C220	excluding 9050-9055, 9140, 9590-9992	21071
Intrahepatic Bile Duct	C221		21072
Gallbladder	C239		21080
Other Biliary	C240-C249		21090
Pancreas	C250-C259		21100
Retroperitoneum	C480		21110
Peritoneum, Omentum and Mesentery	C481-C482		21120

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)	Recode
Other Digestive Organs	C268-C269, C488		21130
Respiratory System			
Nose, Nasal Cavity and Middle Ear	C300-C301, C310-C319	excluding 9050-9055, 9140, 9590-9992	22010
Larynx	C320-C329		22020
Lung and Bronchus	C340-C349		22030
Pleura	C384		22050
Trachea, Mediastinum and Other Respiratory Organs	C339, C381-C383, C388, C390, C398, C399		22060
Bones and Joints	C400-C419	excluding 9050-9055, 9140, 9590-9992	23000
Soft Tissue including Heart	C380, C470-C479, C490-C499	excluding 9050-9055, 9140, 9590-9992	24000
Skin excluding Basal and Squamous			
Melanoma of the Skin	C440-C449	8720-8790	25010
Other Non-Epithelial Skin	C440-C449	excluding 8000-8005, 8010-8046, 8050-8084, 8090-8110, 8720-8790, 9050-9055, 9140, 9590-9992	25020
Breast	C500-C509	excluding 9050-9055, 9140, 9590-9992	26000
Female Genital System			
Cervix Uteri	C530-C539	excluding 9050-9055, 9140, 9590-9992	27010
Corpus Uteri and Uterus, NOS			
Corpus Uteri	C540-C549	excluding 9050-9055, 9140, 9590-9992	27020
Uterus, NOS	C559		27030
Ovary	C569		27040
Vagina	C529		27050
Vulva	C510-C519		27060
Other Female Genital Organs	C570-C589		27070
Male Genital System			
Prostate	C619	excluding 9050-9055, 9140, 9590-9992	28010
Testis	C620-C629		28020
Penis	C600-C609		28030
Other Male Genital Organs	C630-C639		28040
Urinary System			
Urinary Bladder	C670-C679	excluding 9050-9055, 9140, 9590-9992	29010
Kidney and Renal Pelvis	C649, C659		29020
Ureter	C669		29030
Other Urinary Organs	C680-C689		29040
Eye and Orbit	C690-C699	excluding 9050-9055, 9140, 9590-9992	30000
Brain and Other Nervous System			
Brain	C710-C719	excluding 9050-9055, 9140, 9530-9539, 9590-9992	31010
Cranial Nerves Other Nervous System	C710-C719	9530-9539	31040
	C700-C709, C720-C729	excluding 9050-9055, 9140, 9590-9992	
Endocrine System			
Thyroid	C739	excluding 9050-9055, 9140, 9590-9992	32010
Other Endocrine including Thymus	C379, C740-C749, C750-C759		32020
Lymphoma			
Hodgkin Lymphoma			
Hodgkin - Nodal	C024, C098-C099, C111, C142, C379, C422, C770-C779	9650-9667	33011
Hodgkin - Extranodal	All other sites		33012
Non-Hodgkin Lymphoma			

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)	Recode
NHL - Nodal	C024, C098,C099, C111,C142, C379,C422, C770-C779	9590-9597, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687-9691, 9695, 9698-9702, 9705, 9708-9709, 9712, 9714-9719, 9724-9729, 9735, 9737-9738, 9811-9818, 9823, 9827, 9837	33041
NHL - Extranodal	All sites except C024, C098-C099, C111, C142, C379, C422, C770-C779	9590-9597, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687-9691, 9695, 9698-9702, 9705, 9708-9709, 9712, 9714-9719, 9724-9729, 9735, 9737-9738	33042
	All sites except C024, C098-C099, C111, C142, C379, C420-C422, C424, C770-C779	9811-9818, 9823, 9827, 9837	
Myeloma		9731-9732, 9734	34000
Leukemia			
Lymphocytic Leukemia			
Acute Lymphocytic Leukemia		9826, 9835-9836	35011
	C420, C421, C424	9811-9818, 9837	
Chronic Lymphocytic Leukemia	C420, C421, C424	9823	35012
Other Lymphocytic Leukemia		9820, 9832-9834, 9940	35013
Myeloid and Monocytic Leukemia			
Acute Myeloid Leukemia		9840, 9861, 9865-9867, 9869, 9871-9874, 9895-9897, 9898, 9910-9911, 9920	35021
Acute Monocytic Leukemia		9891	35031
Chronic Myeloid Leukemia		9863, 9875-9876, 9945-9946	35022
Other Myeloid/Monocytic Leukemia		9860, 9930	35023
Other Leukemia			
Other Acute Leukemia		9801, 9805-9809, 9931	35041
Aleukemic, subleukemic and NOS		9733, 9742, 9800, 9831, 9870, 9948, 9963-9964	35043
	C420, C421, C424	9827	
Mesothelioma		9050-9055	36010
Kaposi Sarcoma		9140	36020
Miscellaneous		9740-9741, 9750-9769, 9950, 9960-9962, 9965-9967, 9970-9971, 9975, 9980, 9982-9987, 9989, 9991-9992	37000
	C760-C768, C809	excluding 9050-9055, 9140, 9590-9992	
	C420-C424		
	C770-C779		
Invalid	Site or histology code not within valid range or site code not found in this table.		99999

* This table was updated for Hematopoietic codes based on *WHO Classification of Tumours of Haematopoietic and Lymphoid Tissues (2008)*.
^ Subject to change based on evolving ICD-O-3 coding rules.

APPENDIX 3

INCIDENCE CASE DEFINITIONS

Definitions of Groups of Cancers (HPV, Obesity, Tobacco)

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)
HPV-associated cancers*		
Cervix	C530, C531, C538, C539	All carcinomas (8010-8671, 8940-8941)
Vagina	C529	Squamous cell carcinomas (8050-8084, 8120-8131)
Vulva	C510, C511, C512, C518, C519	Squamous cell carcinomas (8050-8084, 8120-8131)
Anus (including rectum)	C210, C211, C212, C218, C209	Squamous cell carcinomas (8050-8084, 8120-8131)
Penis	C600, C601, C602, C608, C609	Squamous cell carcinomas (8050-8084, 8120-8131)
Oral Cavity and Oropharynx (including base of tongue, tonsils, and other oropharynx)	C019, C024, C090, C091, C098, C099, C142, C028, C102, C108, C109, C140, C148	Squamous cell carcinomas (8050-8084, 8120-8131)

*HPV-associated sites as defined in: Watson M, Saraiya M, Ahmed F, et al. Using population-based cancer registry data to assess the burden of HPV-associated cancers in the United States: overview of methods. Cancer. 2008;113:2841–54. Accessed from http://onlinelibrary.wiley.com/doi/10.1002/cncr.23758/pdf .

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)
Obesity-related cancers		
Colon and Rectum	C180, C181, C182, C183, C184, C185, C186, C187, C188-C189, C260, C199, C209	excluding 9050-9055, 9140, 9590-9992
Esophagus	C150-C159	Adenocarcinomas 8140-8149, 8160-8162, 8190-8221,8260- 8337, 8350-8551, 8570-8576, 8940-8941
Kidney and Renal Pelvis	C649, C659	excluding 9050-9055, 9140, 9590-9992
Pancreas,	C250-C259	excluding 9050-9055, 9140, 9590-9992
Corpus and uterus, NOS (not otherwise specified)	C540-C549, C559	excluding 9050-9055, 9140, 9590-9992
Breast (limited to post-menopausal and is defined as women age 50 years and older)	C500-C509	excluding 9050-9055, 9140, 9590-9992
Tobacco-related cancers (excl. lung and bronchus)		
Laryngeal	C320-C329	excluding 9050-9055, 9140, 9590-9992
Oral Cavity and Pharynx	C000-C009, C019-C029, C079-C089, C040-C049, C030-C039, C050-C059, C060-C069, C110-C119 , C090-C099, C100-C109, C129, C130-C139, C140, C142-C148	excluding 9050-9055, 9140, 9590-9992
Esophagus	C150-C159	excluding 9050-9055, 9140, 9590-9992
Stomach	C160-C169	excluding 9050-9055, 9140, 9590-9992
Pancreas	C250-C259	excluding 9050-9055, 9140, 9590-9992
Kidney and Renal Pelvis	C649, C659	excluding 9050-9055, 9140, 9590-9992
Cervix Uteri	C530-C539	excluding 9050-9055, 9140, 9590-9992
Urinary Bladder	C670-C679	excluding 9050-9055, 9140, 9590-9992
Acute Myeloid Leukemia	Used recode 35021	9840, 9861, 9865-9867, 9869, 9871-9874, 9895-9897, 9898, 9910-9911, 9920
Colon excluding Rectum	C180, C181, C182, C183, C184, C185, C186, C187, C188-C189, C206	excluding 9050-9055, 9140, 9590-9992
Rectum and Rectosigmoid Junction	C199, C209	excluding 9050-9055, 9140, 9590-9992
Liver	C220	excluding 9050-9055, 9140, 9590-9992

APPENDIX 4

MORTALITY CASE DEFINITIONS

SEER major site groupings of cause of death based on the International Classification of Diseases.
(http://seer.cancer.gov/codrecode/1969+_d04162012/index.html)

Site	ICD-10 Codes
All Sites	C00–C97
Brain and Other Nervous System	C70-C72
Breast	C50
Cervix Uteri	C53
Colon and Rectum	C18-C20, C26.0
Corpus Uterus	C54, C55
Esophagus	C15
Hodgkin Lymphoma	C81
Kidney and Renal Pelvis	C64-C65
Larynx	C32
Leukemia	C90.1, C91-C95
Liver & Intrahepatic Bile Duct	C22.0-C22.4, C22.7, C22.9
Lung and Bronchus	C34
Melanoma of the Skin	C43
Myeloma	C90.0, C90.2
Non-Hodgkin Lymphoma	C82-C85, C96.3
Oral Cavity and Pharynx	C00-C14
Ovary	C56
Pancreas	C25
Prostate	C61
Stomach	C16
Testis	C62
Thyroid	C73
Urinary Bladder	C67

Paul R. LePage, Governor   Ricker Hamilton, Commissioner

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