Maine Cancer Surveillance Plan

2013

Tiana A. Garrett, PhD, MPH¹

Denise Yob, MPH²

Sara L. Huston, PhD²

² Department of Applied Medical Sciences, University of Southern Maine



¹ U.S. Centers for Disease Control and Prevention (U.S. CDC), Maine CDC

Table of Contents

Acknowledgements

Introduction	1
Methodology	1
List of Selected Cancer Indicators	
Behavioral and Other Risk Factors	3
Screening	8
Morbidity	10
Mortality	16
Summary of Analysis Plan	
Table 1. Behavioral and Other Risk Factor Indicators	20
Table 2. Screening Indicators	26
Table 3. Morbidity Indicators	29
Table 4. Mortality Indicators	35
Next Steps	37
References	39
Appendix	40

Maine Cancer Surveillance Plan

2013

Expert Review

Rebecca Pearce, MA Maine CDC, Comprehensive Cancer Control Program

Maryann Zaremba, BA Maine CDC, Breast and Cervical Health Program

Jessica Shaffer, MS, CHES Maine CDC, Comprehensive Cancer Control and Colorectal

Cancer Control

Molly Schwenn, MD Maine CDC, Maine Cancer Registry

Data Analysis

Denise Yob, MPH University of Southern Maine

Tiana Garrett, PhD, MPH U.S. CDC, Maine CDC

Formatting

Finn Teach, MPP University of Southern Maine

This publication was supported by the U.S. Centers for Disease Control and Prevention (CDC), Division of Cancer Control and Prevention, Cooperative Agreement Number 5U58DP003916-01. Contents of this publication are solely the responsibility of the authors and do not necessarily represent the official view of the U.S. CDC.

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. Maine's cancer incidence and mortality rates are significantly higher than national rates. 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 lays out the framework of indicators that we will routinely analyze, interpret, and use for the Maine CDC's cancer control program planning, implementation, and evaluation.

Methodology

This surveillance plan is the product of a year-long collaboration between staff in Maine CDC's cancer programs (Comprehensive Cancer Program, Maine Cancer Registry, Maine Breast and Cervical Health Program) and epidemiology staff. The process began with a review of existing documents containing surveillance data, including the 2011–2015 Maine Comprehensive Cancer Control Plan and the 2009 Maine Cancer Surveillance Report.^{2,3} Following this review, the working group identified essential, yet wide-ranging, topic areas for cancer surveillance and drafted a list of proposed cancer indicators addressing each topic area. Collectively, these indicators assess five major components of cancer surveillance: 1) behavioral and other risk factors, 2) cancer screening, 3) new cases of cancer (incidence), stage at diagnosis, and cancer survivorship (morbidity), 4), and 5) cancer-related deaths (mortality). Selected indicators were voted upon by respective Maine CDC cancer program staff and scored based on its relevance, accuracy as a performance measure, and concordance with national recommendations. 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 cancer diagnosis data is captured on an ongoing basis by the Maine Cancer Registry. Mortality data is routinely collected through death certificates; the national mortality database provided by the National Center for Health Statistics is used by Maine for cancer analyses. Data on cancer survivorship, cancer screening, and environmental risk factors is collected in the Maine Behavioral Risk Factor Surveillance System (BRFSS). Data on behavioral risk factors is collected by BRFSS for adults and the Maine Integrated Youth Health Survey (MIYHS) for youth.

Incidence and mortality data will be presented as crude and age-adjusted estimates standardized using the 2000 U.S. Standard population. Estimates will be analyzed by year (trend over time), sex, race, and geographical area of residence (county and/or public health district). Cancer incidence and mortality data will be analyzed using SEER*Stat.

Behavioral risk factors among adults will be analyzed by demographic factors (namely, sex, race, age, sexual orientation, household income, education, history of depression, and type of insurance), 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, race, age, sexual orientation, and education) 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: Percent of Maine adults ages ≥18 years who reported current use of any tobacco

product

Numerator: Weighted number of Maine adults ages ≥18 years who reported current use of any tobacco product (cigarettes, cigars, small flavored cigars, large flavored cigars, chewing tobacco

or snuff)

Denominator: Weighted number of Maine adults ages ≥18 years who responded to questions about current use of cigarettes, cigars, flavored cigars (small and large size), chewing tobacco

and snuff

Data source: BRFSS

Data availability: Annually Unit of Analysis: Individual

Adult, former and current smokers

Description: Percent of Maine adults ages ≥18 years who reported being former or current

cigarette smoker

Numerator: Weighted number of Maine adults ages ≥18 years who reported being a former or

current cigarette smoker

Denominator: Weighted number of Maine adults ages ≥18 years who responded to the question about smoking at least 100 cigarettes in their lifetime and the question about current smoking

Data source: BRFSS

Data availability: Annually **Unit of Analysis**: Individual

Adult, fruit consumption

Description: Median daily fruit consumption among Maine adults ages ≥18 years

Numerator: Not applicable **Denominator**: Not applicable

Data source: BRFSS

Data availability: Biennially (odd years)

Unit of Analysis: Individual

Adult, vegetable consumption

Description: Median daily vegetable consumption among Maine adults ages ≥18 years

Numerator: Not applicable **Denominator**: Not applicable

Data source: BRFSS

Data availability: Biennially (odd years)

Unit of Analysis: Individual

Adult, healthy weight status

Description: Percent of Maine adults ages ≥18 years who are at a healthy weight based on a

calculation of body mass index (BMI) from self-reported weight and height

Numerator: Weighted number of Maine adults at a healthy weight (BMI 18.5-24.9), according to

self-reported height and weight

Denominator: Weighted number of Maine adults ages ≥18 years who reported weight and

height

Data source: BRFSS

Data availability: Annually Unit of Analysis: Individual

Adult, overweight and obese

Description: Percent of Maine adults ages ≥18 years who are overweight or 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 who are overweight (BMI 25.0-

29.9) or obese (BMI ≥ 30.0), according to self-reported height and weight

Denominator: Weighted number of Maine adults ages ≥18 years who reported valid weight and

height

Data source: BRFSS

Data availability: Annually Unit of Analysis: Individual

Adult, physical activity (≥150 minutes of aerobic exercise per week)

Description: Percent of Maine adults ages ≥18 years who reported they participated in ≥150

minutes of physical activity per week

Numerator: Weighted number of Maine adults ages ≥18 years who reported they participated

in ≥150 minutes of physical activity per week

Denominator: Weighted number of Maine adults ages ≥18 years who responded to the physical

activity questions **Data source**: BRFSS

Data availability: Biennially (odd years)

Unit of Analysis: Individual

Adult, heavy drinking

Description: Percent of Maine adults ages ≥18 years who reported heavy drinking, defined as

more than two drinks per day for males or more than one drink per day for females

Numerator: Weighted number of Maine adults ages ≥18 years who report having more than two drinks per day for males or more than one drink per day for females in the past 30 days **Denominator**: Weighted number of Maine adults ages ≥18 years who responded to questions

about drinking alcoholic beverages

Data source: BRFSS

Data availability: Annually Unit of Analysis: Individual

Adult, use of artificial sources of ultraviolet light for tanning

Description: Percent of Maine adults ages ≥18 years who reported use of artificial sources of

ultraviolet light for tanning

Numerator: Weighted number of Maine adults ages ≥18 years who responded 'Yes' to the

question about whether they had used sunlamps or tanning booths

Denominator: Weighted number of Maine adults ages ≥18 years who responded to the question

on using a sunlamp or tanning booth

Data source: BRFSS

Data availability: When added as a state-added question (2011, 2012)

Unit of Analysis: Individual

Adult, use of protective measures against sun exposure

Description: Percent of Maine adults ages \geq 18 years who reported frequent use of protective measures against sun exposure 'Always' or 'Nearly always' when outside on a sunny summer day for \geq 1 hour

Numerator: Weighted number of Maine adults ages ≥18 years who answered 'Always' or 'Nearly

always' to the questions about using protective measures against sun exposure

Denominator: Weighted number of Maine adults ages ≥18 years who responded to questions

about use of protective measures against sun exposure

Data source: BRFSS

Data availability: When added as a state-added question (2007, 2008, 2010)

Unit of Analysis: Individual

Adult, adherence to three-dose human papillomavirus (HPV) adherence

Description: Percent of Maine adults ages 18-49 years who reported that they had the three-

dose HPV vaccination

Numerator: Weighted number of Maine adults ages 18-49 years who reported having the three-

dose HPV vaccination

Denominator: Weighted number of Maine adults ages 18-49 years who responded to the

questions about HPV vaccination

Data source: BRFSS

Data availability: When added as a state-added or optional module (2011, 2012)

Unit of Analysis: Individual

Youth, any tobacco use

Description: Percent of Maine youth (middle and high school students) who reported use of any

tobacco product in the past 30 days

Numerator: Weighted number of Maine youth (middle and high school students) who reported

any tobacco use in the past 30 days

Denominator: Weighted number of Maine youth (middle and high school students) who responded to questions about use of any type of tobacco product in the past 30 days

Data source: Maine Integrated Youth Health Survey (MIYHS)

Data availability: Biennially (odd years)

Unit of Analysis: Individual

Youth, fruit and vegetable consumption

Description: Percent of Maine youth (middle and high school students) who reported eating

fruits and/or vegetables 5 or more times per day during the past seven days

Numerator: Weighted number of Maine youth (middle and high school students) who reported

eating fruits and/or vegetables 5 or more times per day during the past seven days

Denominator: Weighted number of Maine youth (middle and high school students) who

responded to questions about fruit and/or vegetable consumption

Data source: MIYHS

Data availability: Biennially (odd years)

Unit of Analysis: Individual

Youth, healthy weight status

Description: Percent of Maine youth (middle and high school students) who are at a healthy weight (≥5th percentile but <85th percentile for body mass index [BMI] by age and sex) from self-reported weight and height

Numerator: Weighted number of Maine youth (middle and high school students) at a healthy weight, according to self-reported height and weight

Denominator: Weighted number of Maine youth (middle and high school students) who

reported valid weight and height

Data source: MIYHS

Data availability: Biennially (odd years)

Unit of Analysis: Individual

Youth, overweight and obese

Description: Percent of Maine youth (middle and high school students) who are overweight (≥85th percentile but <95th percentile for body mass index [BMI] by age and sex) or obese (≥95th percentile for BMI by age and sex) from self-reported weight and height

Numerator: Weighted number of Maine youth (middle and high school students) who are

overweight or obese, according to self-reported height and weight

Denominator: Weighted number of Maine youth (middle and high school students) who

reported valid weight and height

Data source: MIYHS

Data availability: Biennially (odd years)

Unit of Analysis: Individual

Youth, physical activity (≥60 minutes of physical activity daily)

Description: Percent of Maine youth (middle and 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 and 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 and 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

Data availability: Biennially (odd years)

Unit of Analysis: Individual

Youth, sunscreen use

Description: Percent of Maine youth (middle and 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 and 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 and 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

Data availability: Biennially (odd years)

Unit of Analysis: Individual

Youth, use of artificial sources of ultraviolet light for tanning

Description: Percent of Maine youth (middle and high school students) who reported using artificial sources of ultraviolet light for tanning at least one time in the past 12 months **Numerator**: Weighted number of Maine youth (middle and 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 and high school students) responded

Denominator: Weighted number of Maine youth (middle and 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: Biennially (odd years)

Unit of Analysis: Individual

Youth, adherence to three-dose human papillomavirus (HPV) adherence

Description: Percent of Maine youth ages 10-16 years who had received the three-dose HPV vaccination (based on parental/guardian report)

Numerator: Weighted number of Maine youth ages 10-16 years who had received the three-dose HPV vaccination (based on parental/guardian report)

Denominator: Weighted number of Maine youth ages 10-16 years who responded to the question about ever having the three-dose HPV vaccination (based on parental/guardian report)

Data source: BRFSS

Data availability: When added as a state-added or optional module (2011)

Unit of Analysis: Individual

Environmental, radon testing of indoor air

Description: Percent of Maine households that reported household air was tested for radon **Numerator**: Weighted number of Maine 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

Data availability: When added as a state-added question (2011, 2012, 2013)

Unit of Analysis: Household

Environmental, high levels of radon in indoor air

Description: Percent of Maine households that reported radon levels in household air 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

Data availability: When added as a state-added question (2011, 2012, 2013)

Unit of Analysis: Household

Environmental, high levels of radon in indoor air mitigated

Description: Percent of Maine households that reported above normal radon levels in

household air was 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 that responded to the question of

whether above normal radon levels in household air was reduced/fixed

Data source: BRFSS

Data availability: When added as a state-added question (2011, 2012, 2013)

Unit of Analysis: Household

Screening

Breast cancer, screening, mammogram

Description: Percent of Maine females ages ≥40 years, 40-49 years and ≥50 years who reported

they have had a mammogram in the past two years

Numerator: Weighted number of Maine females ages ≥ 40 years, 40-49 years and ≥ 50 years whose response to the question of how long since last mammogram was 'In the past two years' **Denominator**: Weighted number of Maine females ages ≥ 40 years, 40-49 years and ≥ 50 years

who responded to the question of how long since last had a mammogram

Data source: BRFSS

Data availability: Biennially (even years)

Unit of Analysis: Individual

Cervical cancer, screening, Pap smear

Description: Percent of Maine females ages 21-65 years with an intact cervix who reported that

they have had a Pap smear in the past three years

Numerator: Weighted number of Maine females ages 21-65 years with an intact cervix whose response to the question of how long since last Pap smear was 'In the past three years'

Denominator: Weighted number of Maine females ages 21-65 years with an intact cervix who

responded to the question about time since last had a Pap smear

Data source: BRFSS

Data availability: Biennially (even years)

Unit of Analysis: Individual

Colorectal cancer, screening, combined

Description: Percent of Maine adults ages ≥50 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 years 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 years who responded to the

questions about colorectal cancer screening

Data source: BRFSS

Data availability: Biennially (even years); may sometimes be included as a state-added question

in odd years (2007, 2009) **Unit of Analysis**: Individual

Colorectal cancer, screening, sigmoidscopy and blood stool test

Description: Percent of Maine adults ages ≥50 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 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 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

Data availability: Biennially (even years); may sometimes be included as a state-added question

in odd years (2007, 2009) **Unit of Analysis**: Individual

Colorectal cancer, screening, colonoscopy

Description: Percent of Maine adults ages ≥50 years who reported that they had a colonoscopy in the past 10 years

Numerator: Weighted number of Maine adults ages ≥50 years who reported having a

colonoscopy in the past 10 years

Denominator: Weighted number of Maine adults ages ≥50 years who responded to the

questions about how long since last colonoscopy

Data source: BRFSS

Data availability: Biennially (even years); may sometimes be included as a state-added question

in odd years (2007, 2009) **Unit of Analysis**: Individual

Colorectal cancer, screening, blood stool test

Description: Percent of Maine adults ages ≥50 years who reported that they had a home blood stool test in the past year

Numerator: Weighted number of Maine adults ages ≥50 years who reported having a home blood stool test in the past year

Denominator: Weighted number of Maine adults ages ≥50 years who responded to the questions about home blood stool testing

Data source: BRFSS

Data availability: Biennially (even years); may sometimes be included as a state-added question

in odd years (2007, 2009) **Unit of Analysis**: Individual

Oral or mouth cancer, screening

Description: Percent of Maine adults ages ≥18 years who reported that they have had been screened for oral cancer

Numerator: Weighted number of Maine adults ages ≥18 years who answered 'Yes' to the question about having an examination for oral or mouth cancer

Denominator: Weighted number of Maine adults ages ≥18 years who responded to the question

about ever having an examination for oral or mouth cancer

Data source: BRFSS

Data availability: When added as a state-added or optional module (2011, 2012)

Unit of Analysis: Individual

Prostate cancer, screening, prostate-specific antigen (PSA) test

Description: Percent of Maine males ages ≥50 years who reported they have had a PSA test

within the past two years

Numerator: Weighted number of Maine males ages ≥50 years who answered 'Yes' to the

question about having an PSA test within the past two years

Denominator: Weighted number of Maine males ages ≥50 years who responded to questions

about how long since PSA testing

Data source: BRFSS

Data availability: Biennially (even years)

Unit of Analysis: Individual

Morbidity

Incidence

Adenocarcinoma of the esophagus, incidence

Description: Adenocarcinoma of the esophagus incidence

Numerator: Number of incident cases of adenocarcinoma of the esophagus among Maine

residents

Denominator: Maine population **Data source**: Maine Cancer Registry

Data availability: Annually Unit of Analysis: Individual

All cancer, incidence

Description: All cancer incidence

Numerator: Number of incident cases of all cancers combined among Maine residents

Denominator: Maine population **Data source**: Maine Cancer Registry

Data availability: Annually **Unit of Analysis**: Individual

Bladder cancer, incidence

Description: Bladder cancer incidence

Numerator: Number of incident bladder cases among Maine residents

Denominator: Maine population **Data source**: Maine Cancer Registry

Data availability: Annually Unit of Analysis: Individual

Breast cancer (female), incidence

Description: Female breast cancer incidence

Numerator: Number of incident female breast cancer cases among Maine residents

Denominator: Maine female population **Data source**: Maine Cancer Registry

Data availability: Annually Unit of Analysis: Individual

Cervical cancer, incidence

Description: Cervical cancer incidence

Numerator: Number of incident cervical cancer cases among Maine females

Denominator: Maine female population **Data source**: Maine Cancer Registry

Data availability: Annually **Unit of Analysis**: Individual

Colorectal cancer, incidence

Description: Colorectal cancer incidence

Numerator: Number of incident colorectal cancer cases among Maine residents

Denominator: Maine population **Data source**: Maine Cancer Registry

Data availability: Annually Unit of Analysis: Individual

Endometrial cancer, incidence

Description: Endometrial cancer incidence

Numerator: Number of incident endometrial cancer cases among Maine females

Denominator: Maine female population **Data source**: Maine Cancer Registry

Data availability: Annually **Unit of Analysis**: Individual

Esophageal cancer, incidence

Description: Esophageal cancer incidence

Numerator: Number of incident esophageal cancer cases among Maine residents

Denominator: Maine population **Data source**: Maine Cancer Registry

Data availability: Annually **Unit of Analysis**: Individual

Kidney and renal pelvis cancer, incidence

Description: Kidney and renal pelvis cancer incidence

Numerator: Number of incident kidney and renal pelvis cancer cases among Maine residents

Denominator: Maine population **Data source**: Maine Cancer Registry

Data availability: Annually Unit of Analysis: Individual

Lung cancer, incidence

Description: Lung cancer incidence

Numerator: Number of incident lung cancer cases among Maine residents

Denominator: Maine population **Data source**: Maine Cancer Registry

Data availability: Annually Unit of Analysis: Individual

Melanoma, incidence

Description: Melanoma incidence

Numerator: Number of incident melanoma cases among Maine residents

Denominator: Maine population **Data source**: Maine Cancer Registry

Data availability: Annually Unit of Analysis: Individual

Mesothelioma, incidence

Description: Mesothelioma incidence

Numerator: Number of incident mesothelioma cases among Maine residents

Denominator: Maine population **Data source**: Maine Cancer Registry

Data availability: Annually Unit of Analysis: Individual

Non-Hodgkin's Lymphoma, incidence

Description: Non-Hodgkin's Lymphoma incidence

Numerator: Number of incident Non-Hodgkin's Lymphoma cases among Maine residents

Denominator: Maine population **Data source**: Maine Cancer Registry

Data availability: Annually **Unit of Analysis**: Individual

Oropharyngeal cancer, incidence

Description: Oropharyngeal cancer incidence

Numerator: Number of incident oropharyngeal cancer cases among Maine residents

Denominator: Maine population **Data source**: Maine Cancer Registry

Data availability: Annually **Unit of Analysis**: Individual

Pancreatic cancer, incidence

Description: Pancreatic cancer incidence

Numerator: Number of incident pancreatic cancer cases among Maine residents

Denominator: Maine population **Data source**: Maine Cancer Registry

Data availability: Annually Unit of Analysis: Individual

Post-menopausal breast cancer, incidence

Description: Post-menopausal breast cancer incidence

Numerator: Number of incident post-menopausal breast cancer cases among Maine females

Denominator: Maine female population **Data source**: Maine Cancer Registry

Data availability: Annually Unit of Analysis: Individual

Prostate cancer, incidence

Description: Prostate cancer incidence

Numerator: Number of incident prostate cancer cases among Maine males

Denominator: Maine male population **Data source**: Maine Cancer Registry

Data availability: Annually Unit of Analysis: Individual

Thyroid cancer, incidence

Description: Thyroid cancer incidence

Numerator: Number of incident thyroid cancer cases among Maine residents

Denominator: Maine population **Data source**: Maine Cancer Registry

Data availability: Annually Unit of Analysis: Individual

Tobacco-related neoplasms, incidence

Description: Tobacco-related neoplasms incidence (excluding lung cancer)

Numerator: Number of incident tobacco-related neoplasm cases (excluding lung cancer) among

Maine residents

Denominator: Maine population **Data source**: Maine Cancer Registry

Data availability: Annually **Unit of Analysis**: Individual

Uterine cancer, incidence

Description: Uterine cancer incidence

Numerator: Number of incident uterine cancer cases among Maine females

Denominator: Maine female population **Data source**: Maine Cancer Registry

Data availability: Annually Unit of Analysis: Individual

Staging

Breast cancer (female), staging

Description: Percent of female breast cancer incidence by stage at diagnosis (e.g., in situ,

localized, regional, distant, unknown)

Numerator: Number of incident cases of female breast cancer among Maine female residents divided into stage categories at diagnosis (e.g., in situ, localized, regional, distant, unknown) **Denominator**: Number of incident cases of female breast cancer among Maine female residents

Data source: Maine Cancer Registry

Data availability: Annually **Unit of Analysis**: Individual

Cervical cancer, staging

Description: Percent of cervical cancer incidence by stage at diagnosis (e.g., localized, regional,

distant, unknown)

Numerator: Number of incident cases of cervical cancer among Maine female residents divided

into stage categories at diagnosis (e.g., localized, regional, distant, unknown)

Denominator: Number of incident cases of cervical cancer among Maine female residents

Data source: Maine Cancer Registry

Data availability: Annually Unit of Analysis: Individual

Colorectal cancer, staging

Description: Percent of colorectal cancer incidence by stage at diagnosis (e.g., in situ, localized,

regional, distant, unknown)

Numerator: Number of incident cases of colorectal cancer among Maine residents divided into

stage categories at diagnosis (e.g., in situ, localized, regional, distant, unknown) **Denominator**: Number of incident cases of colorectal cancer among Maine residents

Data source: Maine Cancer Registry

Data availability: Annually Unit of Analysis: Individual

Lung cancer, staging

Description: Percent of lung cancer incidence by stage at diagnosis (e.g., in situ, localized,

regional, distant, unknown)

Numerator: Number of incident cases of lung cancer among Maine residents divided into stage

categories at diagnosis (e.g., in situ, localized, regional, distant, unknown) **Denominator**: Number of incident cases of lung cancer among Maine residents

Data source: Maine Cancer Registry

Data availability: Annually **Unit of Analysis**: Individual

Prostate cancer, staging

Description: Percent of prostate cancer incidence by stage at diagnosis (e.g., localized, regional,

distant, unknown)

Numerator: Number of incident cases of prostate cancer among Maine male residents divided

into stage categories at diagnosis (e.g., localized, regional, distant, unknown)

Denominator: Number of incident cases of prostate cancer among Maine male residents

Data source: Maine Cancer Registry

Data availability: Annually **Unit of Analysis**: Individual

Cancer Survivors

Cancer survivors, prevalence

Description: Percent of Maine adults who report they have been diagnosed with cancer

Numerator: Weighted number of Maine adults ages ≥18 years 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 who responded to the questions about having been told they had cancer ('don't know/not sure' and 'refused'

responses are excluded)

Data source: Behavioral Risk Factor Surveillance System (BRFSS)

Data availability: Annually Unit of Analysis: Individual

Cancer survivors, clinical trial participation

Description: Percent of Maine adults ages ≥18 years with a cancer history who reported they participated in a clinical trial as part of cancer treatment

Numerator: Weighted number of Maine adults ages ≥18 years with a cancer history who answered 'Yes' to the question about having participated in a clinical trial as part of cancer

Denominator: Weighted number of Maine adults ages ≥18 years with a cancer history who responded to the question about participating in a clinical trial as part of cancer treatment

Data source: BRFSS

Data availability: When added as a state-added or optional module (2011, 2012, 2013)

Unit of Analysis: Individual

Cancer survivors, mental health

Description: Mean number of poor mental health days reported by Maine adults ages ≥18 years

who have ever been diagnosed with cancer

Numerator: Not applicable **Denominator**: Not applicable

Data source: BRFSS

Data availability: Annually **Unit of Analysis**: Individual

Cancer survivors, received summary treatment

Description: Percent of Maine adults ages ≥18 years with a cancer history who reported they

received a summary of cancer treatment

Numerator: Weighted number of Maine adults ages ≥18 years with a cancer history who

answered 'Yes' to the question about receiving a summary of cancer treatment

Denominator: Weighted number of Maine adults ages ≥18 years with a cancer history who

responded to the question about receiving a summary of cancer treatment

Data source: BRFSS

Data availability: When added as a state-added or optional module (2011, 2012, 2013)

Unit of Analysis: Individual

Cancer survivors, written follow-up

Description: Percent of Maine adults ages ≥18 years with a cancer history who reported they

received written instructions for follow-up cancer treatment

Numerator: Weighted number of Maine adults ages ≥18 years with a cancer history who answered 'Yes' to the question about receiving written instructions for follow-up cancer

treatment

Denominator: Weighted number of Maine adults ages ≥18 years with a cancer history who responded to the question about receiving written instructions for follow-up cancer treatment

Data source: BRFSS

Data availability: When added as a state-added or optional module (2011, 2012, 2013)

Unit of Analysis: Individual

Cancer survivors, physical health

Description: Mean number of poor physical health days reported by Maine adults ages ≥18

years who have ever been diagnosed with cancer

Numerator: Not applicable **Denominator**: Not applicable

Data source: BRFSS

Data availability: Annually **Unit of Analysis**: Individual

Cancer survivors, poor physical and mental health affecting usual activities

Description: Mean number of poor physical or mental health days that affected usual activities

reported by Maine adults ages ≥18 years who have ever been diagnosed with cancer

Numerator: Not applicable **Denominator**: Not applicable

Data source: BRFSS

Data availability: Annually **Unit of Analysis**: Individual

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: Mortality data
Data availability: Annually
Unit of Analysis: Individual

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: Mortality data
Data availability: Annually
Unit of Analysis: Individual

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: Mortality data
Data availability: Annually
Unit of Analysis: Individual

Cervical cancer, mortality

Description: Cervical cancer deaths

Numerator: Number of deaths of among Maine females with cervical cancer as the underlying

cause of death

Denominator: Maine female population

Data source: Mortality data **Data availability**: Annually **Unit of Analysis**: Individual

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: Mortality data
Data availability: Annually
Unit of Analysis: Individual

Esophageal 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: Mortality data
Data availability: Annually
Unit of Analysis: Individual

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: Mortality data
Data availability: Annually
Unit of Analysis: Individual

Melanoma, mortality

Description: Melanoma deaths

Numerator: Number of deaths among Maine residents with melanoma as the underlying cause

of death

Denominator: Maine population **Data source**: Mortality data **Data availability**: Annually

Unit of Analysis: Individual

Mesothelioma, mortality

Description: Mesothelioma deaths

Numerator: Number of deaths among Maine residents with mesothelioma as the underlying

cause of death

Denominator: Maine population
Data source: Mortality data
Data availability: Annually
Unit of Analysis: Individual

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: Mortality data
Data availability: Annually
Unit of Analysis: Individual

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: Mortality data
Data availability: Annually
Unit of Analysis: Individual

Prostate cancer, mortality

Description: Prostate cancer deaths

Numerator: Number of deaths of among Maine males with prostate cancer as the underlying

cause of death

Denominator: Maine male population

Data source: Mortality data
Data availability: Annually
Unit of Analysis: Individual

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: Mortality data
Data availability: Annually
Unit of Analysis: Individual

Tobacco-related neoplasms, mortality

Description: Tobacco-related neoplasm deaths (excluding lung cancer)

Numerator: Number of deaths among Maine residents with tobacco-related neoplasms

(excluding lung cancer) as the underlying cause of death

Denominator: Maine population
Data source: Mortality data
Data availability: Annually
Unit of Analysis: Individual

Uterine cancer, mortality

Description: Uterine cancer mortality

Numerator: Number of deaths of among Maine females with uterine cancer as the underlying

cause of death

Denominator: Maine female population

Data source: Mortality data Data availability: Annually Unit of Analysis: Individual

Table 1. Summary of Analysis Plan Used in 2013 Maine Cancer Surveillance Plan, by Behavioral or Other Risk Factor Indicator.

				Analysis by Selected Variables										
									Demogra	phic Group			Mental He	alth Status
Indicator	Description Percent of Maine adults ages ≥18	Data Source	Rate base or unit	Year	Geography	Sex	Age	Race and Ethnicity	Sexual Orientation	Household Income	Education	Type of Healthcare Coverage	Current Depression	Any lifetime diagnosis of depression or anxiety
Adult, any tobacco use	years who reported current use of any tobacco product	BRFSS	Percent	Х	X	Х	Х	X	Х	Х	X	Х	Х	X
Adult, former and current smokers	Percent of Maine adults ages ≥18 years who reported being former or current cigarette smoker	BRFSS	Percent	X	х	Х	Х	X	х	х	x	х	X	x
Adult, fruit consumption	Median daily fruit consumption among Maine adults ages ≥18 years	BRFSS	Percent	X	X	x	x	X	Х	X	X	Х	Х	X
Adult, vegetable consumption	Median daily vegetable consumption among Maine adults ages ≥18 years	BRFSS	Percent	X	X	X	X	X	X	X	X	X	X	X
Adult, healthy weight status	Percent of Maine adults ages ≥18 years who are at a healthy weight based on a calculation of body mass index (BMI), according to self-reported weight (in kilograms) and height (in meters squared)	BRFSS	Percent	X	X	x	x	x	X	X	X	X	X	X

									Analysis	by Selected Va	riables			
									Demogra	phic Group			Mental He	alth Status
Indicator	Description	Data Source	Rate base or unit	Year	Geography	Sex	Age	Race and Ethnicity	Sexual Orientation	Household Income	Education	Type of Healthcare Coverage	Current Depression	Any lifetime diagnosis of depression or anxiety
Adult, overweight and obese	Percent of Maine adults ages ≥18 years who are overweight or obese based on a calculation of body mass index (BMI), according to self-reported weight (in kilograms) and height (in meters squared)	BRFSS	Percent	X	X	х	х	х	X	X	х	х	X	x
Adult, physical activity (≥150 minutes of aerobic exercise per week)	Percent of Maine adults ages ≥18 years who reported they participated in 150 minutes of physical activity per week	BRFSS	Percent	X	X	х	Х	X	X	X	X	Х	Х	X
Adult, heavy drinking	Percent of Maine adults ages ≥18 years who reported heavy drinking defined as more than 2 drinks per day for males or more than 1 drink per day for females	BRFSS	Percent	X	X	X	X	х	Х	Х	X	Х	Х	х
Adult, use of artificial sources of ultraviolet light for tanning	Percent of Maine adults ages ≥18 years who reported use of artificial sources of ultraviolet light for tanning	BRFSS	Percent	х	X	х	Х	х	Х	X	X	X	Х	х

Ta	h	ما	1	\mathbf{C}	nt	in	116	h
ı a	v		_		,,,,		u	- 4

				Analysis by Selected Variables										
									Demogra	phic Group			Mental He	alth Status
Indicator	Description Percent of Maine	Data Source	Rate base or unit	Year	Geography	Sex	Age	Race and Ethnicity	Sexual Orientation	Household Income	Education	Type of Healthcare Coverage	Current Depression	Any lifetime diagnosis of depression or anxiety
Adult, use of protective measures against sun exposure	adults ages ≥18 years who reported frequent use of protective measures against sun exposure when outside on a sunny summer day for more than an hour	BRFSS	Percent	X	X	X	X	X	X	X	X	X	Х	X
Adult, adherence to three-dose human papillomavirus (HPV) vaccination	Percent of Maine adults ages 18-49 years who reported by that they had the three-dose HPV vaccination	BRFSS	Percent	X	Х	X	X	x	х	x	X	Х	Х	Х
Youth, any tobacco use	Percent of Maine youth (middle and high school students) who reported any tobacco use in the past 30 days	MIYHS	Percent	X	X	X	X	х	X (high school students only)		X			
Youth, fruit and vegetable consumption	Percent of Maine youth (middle and high school students) who reported eating fruits and/or vegetables 5 or more times per day during the past seven days	MIYHS	Percent	X	X	X	X	X	X (high school students only)		X			

Table 1 Continue	d			_										
										by Selected Va phic Group	riables		Montal Ha	ealth Status
Indicator	Description	Data Source	Rate base or unit	Year	Geography	Sex	Age	Race and Ethnicity	Sexual Orientation	Household Income	Education	Type of Healthcare Coverage	Current Depression	Any lifetime diagnosis of depression or anxiety
Youth, healthy weight status	Percent of Maine youth (middle and high school students) who are at a healthy weight (≥5th percentile but <85th percentile for body mass index [BMI] by age and sex) from self-reported weight (in kilograms) and height (in meters squared)	MIYHS	Percent	X	X	x	X	X	X (high school students only)		X			
Youth, overweight and obese	Percent of Maine youth (middle and high school students) who are overweight (≥85th percentile but <95th percentile for body mass index [BMI] by age and sex) or obese (≥95th percentile for BMI by age and sex) from self-reported weight (in kilograms) and height (in meters squared)	MIYHS	Percent	X	X	X	X	X	X (high school students only)		X			

Table 1 Continued									Analysis	by Selected Va	riahles			
										phic Group	illables		Mental He	alth Status
Indicator	Description	Data Source	Rate base or unit	Year	Geography	Sex	Age	Race and Ethnicity	Sexual Orientation	Household Income	Education	Type of Healthcare Coverage	Current Depression	Any lifetime diagnosis of depression or anxiety
Youth, ≥60 minutes of physical activity per day	Percent of Maine youth (middle and high school students) who reported being physically active for ≥60 minutes per day on all past seven days	MIYHS	Percent	х	X	Х	X	х	X (high school students only)		X			
Youth, use of artificial sources of ultraviolet light for tanning	Percent of Maine youth (middle and high school students) who reported using artificial sources of ultraviolet light for tanning at least one time in the past 12 months	MIYHS	Percent	x	х	X	х	x	X (high school students only)		х			
Youth, adherence to three-dose human papillomavirus (HPV) vaccination	Percent of Maine youth ages 10-17 years who were reported by guardian as having the three-dose HPV vaccination	BRFSS	Percent	X	х	x	x	x		х				
Environmental, radon testing of indoor air	Percent of Maine households that reported household air was	BRFSS	Percent	Х	х					х				

tested for radon

Table 1 Continued

					Analysis by Selected Variables										
									Demogr	aphic Group			Mental He	alth Status	
Indicator	Description	Data Source	Rate base or unit	Year	Geography	Sex	Age	Race and Ethnicity	Sexual Orientation	Household Income	Education	Type of Healthcare Coverage	Current Depression	Any lifetime diagnosis of depression or anxiety	
Environmental, high levels of radon in indoor air	Percent of Maine households that reported radon levels in household air was above normal when tested	BRFSS	Percent	X	х					Х					
Environmental, high levels of radon in indoor air mitigated	Percent of Maine households that reported above normal radon levels in household air was reduced/fixed	BRFSS	Percent	x	х					х					

Abbreviations: BRFSS, Behavioral Risk Factor Surveillance System; MIYHS, Maine Integrated Youth Health Survey Geography is defined as county and public health district of residence.

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

All MIYHS percentages are weighted to be representative of the Maine youth population and to adjust to non-response.

Table 2. Summary of Analysis Plan Used in 2013 Maine Cancer Surveillance Plan, by Screening Indicators.

									Analysis by	Selected Varia	bles			
									Demographi	c Group			Mental He	alth Status
Indicator	Description	Data Source	Rate base or unit	Year	Geography	Sex	Age	Race and Ethnicity	Sexual Orientation	Household Income	Education	Type of Healthcare Coverage	Current Depression	Any lifetime diagnosis of depression or anxiety
Breast cancer, screening, mammogram	Percent of Maine females ages ≥40 years, 40-49 years and ≥50 years who reported they have had a mammogram in the past 2 years	BRFSS	Percent	х	X	NA, sex- specific	х	х	х	Х	х	х	X	Х
Cervical cancer, screening, Pap smear	Percent of Maine females ages 21- 65 years with an intact cervix who reported that they have had a Pap smear in the past 3 years	BRFSS	Percent	x	X	NA, sex- specific	X	Х	X	X	X	Х	X	X
Colorectal cancer, screening, combined	Percent of Maine adults ages ≥50 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	BRFSS	Percent	X	X	X	Х	X	X	X	X	х	X	X

Tab	le 2	\mathbf{c}	on	tin	wed	ı

				Analysis by Selected Variables										
									Demographi	c Group			Mental He	alth Status
Indicator Colorectal cancer, screening, sigmoidoscopy	Description Percent of Maine adults ages ≥50 years who reported that they have ever had a sigmoidoscopy in	Data Source	Rate base or unit	Year	Geography X	Sex	Age	Race and Ethnicity	Sexual Orientation	Household Income	Education	Type of Healthcare Coverage	Current Depression	Any lifetime diagnosis of depression or anxiety
and blood stool test	the past 5 years and a home blood stool test in the past 3 years Percent of Maine													
Colorectal cancer, screening, colonoscopy	adults ages ≥50 years who reported they had a colonoscopy in the past 10 years	BRFSS	Percent	Х	х	х	X	х	x	х	X	х	x	х
Colorectal cancer, screening, blood stool test	Percent of Maine adults ages ≥50 years who reported that they had a home blood stool test in the past year	BRFSS	Percent	x	Х	х	X	Х	X	X	X	х	X	Х
Oral or mouth cancer, screening	Percent of Maine adults ages ≥18 years who reported that they have had been screened for oral cancer	BRFSS	Percent	х	х	х	Х	х	х	х	х	х	X	х

_			•	_						
Ta	n	0	•	•	$\hat{}$	nı	•	n	 0	~

				Analysis by Selected Variables										
					Demographic Group							Mental Health Status		
Indicator	Description	Data Source	Rate base or unit	Year	Geography	Sex	Age	Race and Ethnicity	Sexual Orientation	Household Income		Type of Healthcare Coverage	Current Depression	Any lifetime diagnosis of depression or anxiety
Prostate cancer, screening, prostate-specific antigen (PSA) test	Percent of Maine males ages ≥50 years who reported they have had a PSA test within past 2 years	BRFSS	Percent	Х	Х	NA, sex- specific	X	Х	х	Х	х	Х	X	х

Abbreviations: BRFSS, Behavioral Risk Factor Surveillance System; NA, Not applicable

Geography is defined as county and public health district of residence.

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

Table 3. Summary of Analysis Plan Used in 2013 Maine Cancer Surveillance Plan, by Morbidity Indicators.

				Analysis by Selected Variables												
				Demographic Group										Mental Health Status		
Indicator	Description	Data Source	Rate base or unit	Year	Geography	Sex	Age	Race and Ethnicity	Sexual Orientation	Household Income	Education	Type of Healthcare Coverage	Current Depression	Any lifetime diagnosis of depression or anxiety		
Adenocarcinoma of the esophagus, incidence	Adenocarcinoma of the esophagus incidence	Maine Cancer Registry	Crude and age- adjusted rate	X	X	Х	х									
All cancer, incidence	All cancer incidence	Maine Cancer Registry	Crude and age- adjusted rate	X	X	Х	Х	X								
Bladder cancer, incidence	Bladder cancer Incidence	Maine Cancer Registry	Crude and age- adjusted rate	X	Х	X	X									
Breast cancer (female), incidence	Female breast cancer Incidence	Maine Cancer Registry	Crude and age- adjusted rate	Х	Х	NA, sex- specific	Х	Х								
Cervical cancer, incidence	Cervical cancer incidence	Maine Cancer Registry	Crude and age- adjusted rate	Х	Х	NA, sex- specific										
Colorectal cancer, incidence	Colorectal cancer Incidence	Maine Cancer Registry	Crude and age- adjusted rate	Х	Х	Х	X	X								
Endometrial cancer, incidence	Endometrial cancer Incidence	Maine Cancer Registry	Crude and age- adjusted rate	X	х	NA, sex- specific	Х									
Esophageal cancer, incidence	Esophageal cancer Incidence	Maine Cancer Registry	Crude and age- adjusted rate	Х	Х	Х	Х									
Kidney and renal pelvis cancer, incidence	Kidney and renal pelvis cancer incidence	Maine Cancer Registry	Crude and age- adjusted rate	Х	Х	Х	х									

				Analysis by Selected Variables										
									Demograph	ic Group			Mental He	alth Status Any
Indicator	Description	Data Source	Rate base or unit Crude	Year	Geography	Sex	Age	Race and Ethnicity	Sexual Orientation	Household Income	Education	Type of Healthcare Coverage	Current Depression	lifetime diagnosis of depression or anxiety
Lung cancer, incidence	Lung cancer Incidence	Maine Cancer Registry	and age- adjusted rate	x	Х	X	Х	Х						
Melanoma, incidence	Melanoma Incidence	Maine Cancer Registry	Crude and age- adjusted rate	Х	X	Х	Х							
Mesothelioma, incidence	Mesothelioma incidence	Maine Cancer Registry	Crude and age- adjusted rate	Х	X	Х	Х							
Non-Hodgkins Lymphoma, incidence	Non-Hodgkins Lymphoma Incidence	Maine Cancer Registry	Crude and age- adjusted rate	X	X	Х	х							
Oropharyngeal cancer, incidence	Oropharyngeal cancer Incidence	Maine Cancer Registry	Crude and age- adjusted rate	X	X	Х	х							
Pancreatic cancer, incidence	Pancreatic cancer Incidence	Maine Cancer Registry	Crude and age- adjusted rate	X	Х	X	X							
Post- menopausal breast cancer, incidence	Post- menopausal breast cancer incidence	Maine Cancer Registry	Crude and age- adjusted rate	X	X	NA, sex- specific	x							
Prostate cancer, incidence	Prostate cancer incidence	Maine Cancer Registry	Crude and age- adjusted rate	X	X	NA, sex- specific	х							
Thyroid cancer, incidence	Thyroid cancer incidence	Maine Cancer Registry	Crude and age- adjusted rate	Х	Х	х	Х							

Maine Cancer Surveillance Plan 2013

_	_ 1			-	_	_		•		
	2	n	-Δ	~	C	n	nт	ın	 01	4

				Analysis by Selected Variables										
				Demographic Group										alth Status
Indicator	Description	Data Source	Rate base or unit	Year	Geography	Sex	Age	Race and Ethnicity	Sexual Orientation	Household Income	Education	Type of Healthcare Coverage	Current Depression	Any lifetime diagnosis of depression or anxiety
Tobacco-related neoplasms, incidence	Tobacco-related neoplasm incidence (excluding lung cancer)	Maine Cancer Registry	Crude and age- adjusted rate	х	Х	Х	Х					-		
Uterine cancer, incidence	Uterine cancer incidence	Maine Cancer Registry	Crude and age- adjusted rate	X	X	NA, sex- specific	Х							
Breast cancer (female), staging	Percent of female breast cancer incidence by stage at diagnosis (e.g., in situ, localized, regional, distant, unknown)	Maine Cancer Registry	Percent	х	х	NA, sex- specific	х							
Cervical cancer, staging	Percent of cervical cancer incidence by stage at diagnosis (e.g., localized, regional, distant, unknown)	Maine Cancer Registry	Percent	х	х	NA, sex- specific	х							
Colorectal cancer, staging	Percent of colorectal cancer incidence by stage at diagnosis (e.g., in situ, localized, regional, distant, unknown)	Maine Cancer Registry	Percent	X	X	X	X							

able 3 Continued	
------------------	--

					Analysis by Selected Variables										
									Demograph	nic Group			Mental He		
Indicator Lung cancer, staging	Description Percent of lung cancer incidence by stage at diagnosis (e.g., in situ, localized, regional, distant,	Data Source Maine Cancer Registry	Rate base or unit	Year	Geography X	Sex X	Age	Race and Ethnicity	Sexual Orientation	Household Income	Education	Type of Healthcare Coverage	Current Depression	Any lifetime diagnosis of depression or anxiety	
Prostate cancer, staging	unknown) Percent of prostate cancer incidence by stage at diagnosis (e.g., localized, regional, distant unknown)	Maine Cancer Registry	Percent	X	X	NA, sex- specific	x								
Cancer survivors, prevalence	Percent of Maine adults who report they have been diagnosed with cancer	BRFSS	Percent			X	X	X	x	x	х	х	x	х	
Cancer survivors, clinical trial participation	Percent of Maine adults ages ≥18 years who reported they participated in a clinical trial as part of cancer treatment	BRFSS	Percent			Х	x	X	X	Х	X	Х	X	Х	

Tab	e 3	Con	tinı	ıed

				Analysis by Selected Variables										
									Demograph	ic Group			Mental He	alth Status
Indicator	Description Mean number of poor mental	Data Source	Rate base or unit	Year	Geography	Sex	Age	Race and Ethnicity	Sexual Orientation	Household Income	Education	Type of Healthcare Coverage	Current Depression	Any lifetime diagnosis of depression or anxiety
Cancer survivors, mental health	health days reported by Maine adults ages ≥18 years who have ever been diagnosed with cancer	BRFSS	Mean			х	х	Х	Х	Х	Х	Х		
Cancer survivors, received summary treatment	Percent of Maine adults ages ≥18 years who reported they received a summary of cancer treatment	BRFSS	Percent			x	Х	х	x	x	х	х	X	X
Cancer survivors, written follow- up	Percent of Maine adults ages ≥18 years who reported they received a written instructions for follow-up cancer treatment	BRFSS	Percent			х	х	х	X	х	Х	х	X	X
Cancer survivors, physical health	Mean number of poor physical health days reported by Maine adults ages ≥18 years who have ever been diagnosed with cancer	BRFSS	Mean			Х	х	X	X	Х	X	х		

Ta	hl	6	3	Co	nti	nı	ıed
ıa	vi	_	•	CU		116	ıeu

									Analysis by	Selected Varia	bles			
									Demograph	ic Group			Mental Health Status	
Indicator	Description	Data Source	Rate base or unit	Year	Geography	Sex	Age	Race and Ethnicity	Sexual Orientation	Household Income	Education	Type of Healthcare Coverage	Current Depression	Any lifetime diagnosis of depression or anxiety
Cancer survivors, poor physical or mental health affecting usual activities	Mean number of poor physical or mental health days that affected usual activities reported by Maine adults ages ≥18 years who have ever been diagnosed with cancer	BRFSS	Mean			х	х	x	х	x	х	х		

Abbreviations: BRFSS, Behavioral Risk Factor Surveillance System; NA, Not applicable

Geography is defined as county and public health district of residence.

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

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

Table 4. Summary of Analysis Plan Used in 2013 Maine Cancer Surveillance Plan, by Mortality Indicators.

									Analysis by	Selected Varia	bles			
									Demograph	ic Group			Mental He	alth Status
Indicator	Description	Data Source	Rate base or unit	Year	Geography	Sex	Age	Race and Ethnicity	Sexual Orientation	Household Income	Education	Type of Healthcare Coverage	Current Depression	Any lifetime diagnosis of depression or anxiety
All cancer, mortality	All cancer deaths	Mortality data	Crude and age- adjusted rate	Х	X	Х	Х	X						
Bladder cancer, mortality	Bladder cancer deaths	Morality data	Crude and age- adjusted rate	Х	Х	X	Х							
Breast cancer (female), mortality	Female breast cancer deaths	Mortality data	Crude and age- adjusted rate	Х	Х	NA, sex- specific	х	Х						
Cervical cancer, mortality	Cervical cancer deaths	Mortality data	Crude and age- adjusted rate	Х	X	NA, sex- specific	Х							
Colorectal cancer, mortality	Colorectal cancer deaths	Mortality data	Crude and age- adjusted rate	х	х	Х	Х	Х						
Esophageal cancer, mortality	Esophageal cancer deaths	Mortality data	Crude and age- adjusted rate	Х	X	Х	X							
Lung cancer, mortality	Lung cancer deaths	Mortality data	Crude and age- adjusted rate	X	Х	X	Х	X						
Melanoma, mortality	Melanoma deaths	Mortality data	Crude and age- adjusted rate	Х	Х	Х	Х							
Mesothelioma, morality	Mesothelioma deaths	Mortality data	Crude and age- adjusted rate	х	Х	Х	Х							

Table 4 Continued

									Analysis by	Selected Varia	bles			
									Demographi	ic Group			Mental He	alth Status
Indicator	Description	Data Source	Rate base or unit	Year	Geography	Sex	Age	Race and Ethnicity	Sexual Orientation	Household Income	Education	Type of Healthcare Coverage	Current Depression	Any lifetime diagnosis of depression or anxiety
Oropharyngeal cancer, mortality	Oropharyngeal cancer deaths	Mortality data	Crude and age- adjusted rate	х	Х	Х	Х							
Pancreatic cancer, mortality	Pancreatic cancer deaths	Mortality data	Crude and age- adjusted rate	х	Х	х	Х							
Prostate cancer, mortality	Prostate cancer deaths	Mortality data	Crude and age- adjusted rate	х	Х	NA, sex- specific	Х							
Thyroid cancer, mortality	Thyroid cancer deaths	Mortality data	Crude and age- adjusted rate	Х	Х	Х	Х							
Tobacco-related neoplasms, mortality	Tobacco-related neoplasm deaths (excluding lung cancer)	Mortality data	Crude and age- adjusted rate	Х	Х	Х	Х	Х						
Uterine cancer, mortality	Uterine cancer deaths	Mortality data	Crude and age- adjusted rate	Х	Х	NA, sex- specific	х							

Abbreviations: NA, Not applicable

Geography is defined as county and public health district of residence.

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

Maine Cancer Surveillance Plan 2013 Page 36

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 assemble (if analyzed data is already available) the data and create the standard data tables from the sample 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 will form the basis of the Maine Cancer Surveillance Report. While not all tables, figures, and indicators will be included in the Maine Cancer Surveillance Report, epidemiology staff will interpret the information in the standard tables and figures and write the report based upon that information, with input from Maine CDC cancer program staff. While the Maine Cancer Surveillance Report will be updated every 5 years or so, epidemiology staff will update the standard tables and figures and make those available to Maine CDC cancer program staff on an annual basis, as new data become available. The Cancer Surveillance Report will be widely disseminated by Maine CDC cancer program staff, and epidemiology staff will work with cancer program staff 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 this plan and updating it as needed, and working to ensure that other Maine CDC surveillance efforts are aligned with these indicators. The Cancer Surveillance Plan will be used to plan future data collection efforts, to ensure ongoing access to data on these surveillance indicators. For instance, the Maine BRFSS questionnaire is determined on an annual basis, and the MIYHS questionnaires on a biennial basis, and cancer program staff and epidemiology staff will need to work together to ensure that questions needed to support these cancer surveillance indicators are included in these surveys on a regular basis.

This Cancer Surveillance Plan and its implementation will need to be evaluated at least once every three years. At a minimum, the indicators should be reviewed and evaluated to ensure that they are still useful to Maine CDC cancer programs, that they capture the required scope of measures across the cancer prevention and control spectrum, that unused or redundant indicators are dropped, that new indicators are added as needed, and that changes are made to reflect changes in data availability, national recommendations, or indicator definition. Likewise, table shells need to be reviewed and evaluated to ensure that the data included are useful, sufficient for program use, and reflect changes in data availability and national recommendations.

The Maine CDC and its Division of Population Health (where the Maine CDC cancer programs are organizationally housed) routinely considers and undertakes other efforts related to surveillance, such as Healthy Maine 2020, the Maine State Health Assessment, and the Division of Population Health's Strategic Framework outcomes. As this Cancer Surveillance Plan was created, the cancer program and epidemiology staff ensured that cancer surveillance indicators were in alignment with these broader efforts to the extent that it made sense. As new 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 to the extent possible. For example, it will be important to ensure any cancer surveillance indicators included in these broader efforts come from this Cancer Surveillance Plan,

and not be similar and yet slightly different. While some of this decision-making will be outside the scope of control of the cancer program and epidemiology staff, these staff can provide information and rationale to Division and Maine CDC leadership that alignment will improve surveillance efficiency and effectiveness given limited resources.

References

- 1. Maine Annual Cancer Report 2013. Augusta, ME: Maine Cancer Registry, Division of Population Health, Maine Center for Disease Control and Prevention; November 2013. Available at: http://www.maine.gov/dhhs/mecdc/population-
 health/mcr/reports/documents/2010 incidence 2010 mortality.pdf
- 2. Maine Comprehensive Cancer Control Plan, 2011-2015. Topsham, ME: Maine Cancer Consortium; October 2010. Available at: http://www.maine.gov/dhhs/mecdc/population-health/ccc/documents/cancerplan2011-2015.pdf
- 3. Maine Cancer Surveillance Report, 2009. Maine Cancer Consortium; September 2009. Available at: http://www.maine.gov/dhhs/mecdc/population-health/ccc/documents/cancersurveillancereport-9-2009.pdf

Appendix

Sample Table Shells

Table Shell 1. Trend of Selected Indicator by Year, Maine Behavioral Risk Factor Surveillance System, Maine, 2001-2010.

				Mair	ne Overall			U.S.		
				C	rude	Age	-adjusted	Age	-adjusted	
	Total Respondents	n	N	%	95% CI	%	95% CI	%	95% CI	
Year										
2001										
2002										
2003										
2004										
2005										
2006										
2007										
2008										
2009										
2010		•								

n: Number of survey respondents who answered 'Yes' to the selected question.

N: Estimated number of Maine adults who responded to the selected question.

95% CI: 95% confidence interval

†Use caution in interpreting rates based upon a numerator <50.

Table Shell 2. Prevalence of Selected Indicator by Demographic Group, Maine Behavioral Risk Factor Surveillance System, Maine 2011.

Surveillance System, Maine 2011.	Total				
	Respondents	n	N	%	95% CI
Maine Total					
Sex					
Female					
Male					
Age					
18 - 24					
25 - 34					
35 - 44					
45 - 54					
55 - 64					
65 and over					
Education					
Less than high school diploma					
High school diploma or GED					
Some college					
Bachelor's degree or higher					
Income					
Less than \$15,000					
\$15,000 - \$24,999					
\$25,000 - \$34,999					
\$35,000 - \$49,999					
\$50,000 or more					
Sexual Orientation					
Bisexual					
Heterosexual or straight					
Homosexual (Gay or lesbian)					
Other					
Type of Healthcare Insurance Coverage					
Private Coverage					
MaineCare					
Medicaid/Other					
Uninsured					
Mental Health Status					
Current depression					
Yes					
No					
Any lifetime diagnosis of depression or anxiety					
Yes					
No					

95% CI: 95% confidence interval.

n: Number of survey respondents who answered 'Yes' to the selected question.

N: Estimated number of Maine adults who responded to the selected question.

[†]Use caution in interpreting rates based upon a numerator <50.

Table Shell 3. Prevalence of Selected Indicator by Race and Ethnicity, Maine Behavioral Risk Factor Surveillance System, Maine 2011.

	Total Respondents	n	N	%	95% CI
Maine Total					
Race					
White					
Black or African American					
American Indian or Alaska Native					
Asian					
Hawaiian or Pacific Islander					
Multiracial					
Other Race					
Ethnicity					
Non-Hispanic					
Hispanic					

n: Number of survey respondents who answered 'Yes' to the selected question.

N: Estimated number of Maine adults who responded to the selected question.

^{95%} CI: 95% confidence interval

[†]Use caution in interpreting rates based upon a numerator <50.

Table Shell 4. Prevalence of Selected Indicator by County and District of Residence, Maine Behavioral Risk Factor Surveillance System, Maine 2011.

RISK FACTOR SULVEINANCE System,	Total				
	Respondents	n	N	%	95% CI
Maine Total					
County					
Androscoggin					
Aroostook					
Cumberland					
Franklin					
Hancock					
Kennebec					
Knox					
Lincoln					
Oxford					
Penobscot					
Piscataquis					
Sagadahoc					
Somerset					
Waldo					
Washington					
York					
Public Health District					
Aroostook					
Central					
Cumberland					
Downeast					
Midcoast					
Penquis					
Western					
York					

95% CI: 95% confidence interval.

n: Number of survey respondents who answered 'Yes' to the selected question.

N: Estimated number of Maine adults who responded to the selected question.

[†]Use caution in interpreting rates based upon a numerator <50.

Table Shell 5. Trend of Selected Indicator among Middle School and High School Students by Year, Maine Integrated Youth Health Survey, Maine, 2007, 2009, 2011.

		Midd	le School					U.S.				
	Total Respondents	n	N	%	95% CI	Total Respondents	n	N	%	95% CI	%	95% CI
Year												
2007												
2009												
2011												

n: Number of survey respondents who answered 'Yes' to the selected question.

N: Estimated number of Maine youth who responded to the selected question.

95% CI: 95% confidence interval

[†]Use caution in interpreting rates based upon a numerator <50.

Table Shell 6. Prevalence of Selected Indicator among Middle School and High School Students by Selected Demographics, Maine Integrated Youth Health Survey, Maine 2011. †, ^

	l		ddle Scho		u. 104,a	High School						
	Total					Total						
	Respondents	n	N	%	95% CI	Respondents	n	N	%	95% CI		
Maine Total												
Sex												
Female												
Male												
Race												
White												
Black or												
African												
American												
American												
Indian or												
Alaska												
Native												
Asian												
Hawaiian or												
Pacific												
Islander												
Multiracial												
Ethnicity												
Non-												
Hispanic												
Hispanic												
Sexual												
Orientation												
Bisexual												
Heterosexual												
or straight												
Homosexual												
(Gay or												
lesbian)												
Not sure												

Data source: Maine Integrated Youth Health Survey

n: Number of survey respondents who answered 'Yes' to the selected question.

N: Estimated number of Maine youth who responded to the selected question.

95% CI: 95% confidence interval

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

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

†Use caution in interpreting rates based upon a numerator < 50.

^Results not reported because weighted data are not available due to low response rates.

Table Shell 7. Prevalence of Selected Indicator among Middle School and High School Students by Geography, Maine Integrated Youth Health Survey, Maine 2011.

†/

_	in Health Survey		ldle Schoo	ol		High School						
	Total Respondents	n	N	%	95% CI	Total Respondents	n	N	%	95% CI		
Maine Total												
County												
Androscoggin												
Aroostook												
Cumberland												
Franklin												
Hancock												
Kennebec												
Knox												
Lincoln												
Oxford												
Penobscot												
Piscataquis												
Sagadahoc												
Somerset												
Waldo												
Washington												
York												
Public Health												
District												
Aroostook												
Central												
Cumberland												
Downeast												
Midcoast												
Penquis												
Western												
York												

Data source: Maine Integrated Youth Health Survey

n: Number of survey respondents who answered 'Yes' to the selected question.

N: Estimated number of Maine youth who responded to the selected question.

95% CI: 95% confidence interval

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

[†]Use caution in interpreting rates based upon a numerator <50.

[^]Results not reported because weighted data are not available due to low response rates.

Table Shell 8. Cancer Incidence by Year, Maine, 2001-2010.

			Ų	J.S.				
		Cı	rude	Age-	adjusted	Age-adjusted		
	Count	Rate	95% CI	Rate	95% CI	Rate	95% CI	
Year								
2001								
2002								
2003								
2004								
2005								
2006								
2007								
2008								
2009								
2010								

Count: Number of new cases diagnosed with malignant cancer

95% CI: 95% confidence interval

NA = Not applicable

Rates are calculated using SEER*Stat Version 7.0.5.

Crude rates are new cases per 100,000 population.

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

[†]Rates are flagged as unreliable when the rate is calculated with a numerator of 20 or less.

Table Shell 9. Cancer Incidence by Age and Race, Maine, 2006-2010.

	Average		crude	Age	e-adjusted
	Annual Count	Rate	95% CI	Rate	95% CI
Maine Total					
Age					
Under 15					
15-19					
20-24					
25-29					
30-34					
35-39					
40-44					
45-49					
50-54					
55-59					
60-64					
65-69					
70-74					
75-79					
80-84					
85 and over					
Race					
White					
Black or African American					
Other			-		_

Average Annual Count: Number of new cases diagnosed with malignant cancer over a specific period of time

95% CI: 95% confidence interval

NA = Not applicable

Rates are calculated using SEER*Stat Version 7.0.5.

Crude rates are new cases per 100,000 population.

Age-adjusted rates are new cases 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.

Other race includes Asian, Native American/American Indian, Alaskan Native/Pacific Islanders.

[†]Rates are flagged as unreliable when the rate is calculated with a numerator of 20 or less.

Table Shell 10. Cancer Incidence by Sex, Maine, 2001-2010.

		Females		Males			Main	e Overall		U.S.
		Age-adjusted			Age-adjusted		Age-	adjusted	Age-adjusted	
	Count	Rate	95% CI	Count	Rate	95% CI	Rate	95% CI	Rate	95% CI
Year										
2001										
2002										
2003										
2004										
2005										
2006										
2007										
2008										
2009										
2010										

Count: Number of new cases diagnosed with malignant cancer

95% CI: 95% confidence interval

NA = Not applicable

Rates are calculated using SEER*Stat Version 7.0.5.

Crude rates are new cases per 100,000 population.

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

[†]Rates are flagged as unreliable when the rate is calculated with a numerator of 20 or less.

Table Shell 11. Cancer Incidence by County and Public Health District of Residence, Maine, 2006-2010.

	Average	(Crude	Age	-adjusted
	Annual Count	Rate	95% CI	Rate	95% CI
Maine Total					
County					
Androscoggin					
Aroostook					
Cumberland					
Franklin					
Hancock					
Kennebec					
Knox					
Lincoln					
Oxford					
Penobscot					
Piscataquis					
Sagadahoc					
Somerset					
Waldo					
Washington					
York					
Public Health District					
Aroostook					
Central					
Cumberland					
Downeast					
Midcoast					
Penquis					
Western					
York					

Average Annual Count: Number of new cases diagnosed with malignant cancer over a specific period of time

95% CI: 95% confidence interval

NA = Not applicable

Rates are calculated using SEER*Stat Version 7.0.5.

Crude rates are new cases per 100,000 population.

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

[†]Rates are flagged as unreliable when the rate is calculated with a numerator of 20 or less.

Table Shell 12. Cancer Incidence by Year, Maine, 2001-2010.

		Females			Males		Main	e Overall		U.S.
		Age-adjusted			Age-	adjusted	Age-	adjusted	Age-adjusted	
	Number	Rate	95% CI	Number	Rate	95% CI	Rate	95% CI	Rate	95% CI
Year										
2001										
2002										
2003										
2004										
2005										
2006										
2007										
2008										
2009										
2010										

95% CI: 95% confidence interval

NA = Not applicable

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

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

[†]Rates are flagged as unreliable when the rate is calculated with a numerator of 20 or less.

Table Shell 13. Cancer Deaths by Age and Race, Maine, 2006-2010.

	Average	(Crude	Age-	adjusted
	Annual Count	Rate	95% CI	Rate	95% CI
Maine Total					
Age					
Under 15					
15-19					
20-24					
25-29					
30-34					
35-39					
40-44					
45-49					
50-54					
55-59					
60-64					
65-69					
70-74					
75-79					
80-84					
85 and over					
Race					
White					
Black or African American					
Other					

Average Annual Count: Number of new cases diagnosed with malignant cancer over a specific period of time

95% CI: 95% confidence interval

NA = Not applicable

Rates are calculated using SEER*Stat Version 7.0.5.

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.

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

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

Other race includes Asian, Native American/American Indian, Alaskan Native/Pacific Islanders.

[†]Rates are flagged as unreliable when the rate is calculated with a numerator of 20 or less.

Table Shell 14. Cancer Deaths by Sex, Maine, 2001-2010.

		Females			Males		Main	e Overall		U.S.
		Age-adjusted			Age-adjusted		Age-	adjusted	Age-adjusted	
	Count	Rate	95% CI	Count	Rate	95% CI	Rate	95% CI	Rate	95% CI
Year										
2001										
2002										
2003										
2004										
2005										
2006										
2007										
2008										
2009										
2010										

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

Count: Number of deaths with malignant cancer as the underlying cause of death.

95% CI: 95% confidence interval

NA = Not applicable

Rates are calculated using SEER*Stat Version 8.0.4. SEER Cause of Death Recode: all (which include ICD-10 codes C00-C97) 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.

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

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

*Counts and rates might be slightly underestimated due to missing underlying cause of death information for Maine residents who died out of state in 2010.

[†]Rates are flagged as unreliable when the rate is calculated with a numerator of 20 or less.

Table Shell 15. Cancer Deaths by County and Public Health District of Residence, Maine, 2006-2010.

	Average	C	Crude	Age-adjusted			
	Annual Count	Rate	95% CI	Rate	95% CI		
Maine Total							
County							
Androscoggin							
Aroostook							
Cumberland							
Franklin							
Hancock							
Kennebec							
Knox							
Lincoln							
Oxford							
Penobscot							
Piscataquis							
Sagadahoc							
Somerset							
Waldo							
Washington							
York							
Public Health District							
Aroostook							
Central							
Cumberland							
Downeast							
Midcoast							
Penquis							
Western							
York							

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

Count: Number of deaths with malignant cancer as the underlying cause of death.

95% CI: 95% confidence interval

NA = Not applicable

Rates are calculated using SEER*Stat Version 8.0.4. SEER Cause of Death Recode: all (which include ICD-10 codes C00-C97)

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.

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

^{*}Counts and rates might be slightly underestimated due to missing underlying cause of death information for Maine residents who died out of state in 2010.

[†]Rates are flagged as unreliable when the rate is calculated with a numerator of 20 or less.

Shell Table 16. Stage at Diagnosis for Selected Cancer Sites by Age and Sex, Maine, 2006-2010.

	А	ll Race	s		White			Black			Other			Hispanic	
Stage at Diagnosis	Count	%	Rate	Count	%	Rate	Count	%	Rate	Count	%	Rate	Count	%	Rate
Male															
All Ages															
In situ															
Localized															
Regional															
Distant															
Unknown															
Age < 50															
In situ															
Localized															
Regional															
Distant															
Unknown															
Age ≥ 50															
In situ															
Localized															
Regional															
Distant															
Unknown															
Female															
All Ages															
In situ															
Localized															
Regional															
Distant															
Unknown															
Age < 50															
In situ															
Localized															
Regional															
Distant															
Unknown															
Age ≥ 50															
In situ															
Localized															
Regional															
Distant															
Unknown															

Count: Number of cases diagnosed at specific stage

NA = Not applicable

Rates are calculated using SEER*Stat Version 8.0.4.

Rates are 100,000 population and age-adjusted by five-year groups to the U.S. 2000 standard population.

[†]Rates are flagged as unreliable when the rate is calculated with a numerator of 20 or less.

Other race includes Asian, Native American/American Indian, Alaskan Native/Pacific Islanders.

Shell Table 17. Stage at Diagnosis by County, Maine, 2006-2010.

Stage at Diagnosis	In situ			L	ocalize	ed .	R	egiona	I	Distant			Unknown		
	Count	%	Rate	Count	%	Rate	Count	%	Rate	Count	%	Rate	Count	%	Rate
Maine Total															
County															
Androscoggin															
Aroostook															
Cumberland															
Franklin															
Hancock															·
Kennebec															
Knox															1
Lincoln															
Oxford															1
Penobscot															1
Piscataquis															
Sagadahoc															
Somerset															
Waldo													-		
Washington															
York															·

Count: Number of cases diagnosed at specific stage

NA = Not applicable

Rates are calculated using SEER*Stat Version 8.0.4.

Rates are 100,000 population and age-adjusted by five-year groups to the U.S. 2000 standard population.

[†]Rates are flagged as unreliable when the rate is calculated with a numerator of 20 or less.

Table 18. Age-adjusted Obesity-related Cancer Incidence Rates, Maine and U.S., 2010.†

		Total									
	IV	laine Wh	ites	U.S	. Whites	U.S.	All Races				
		Age-	adjusted	Age-	-adjusted	Age-adjusted					
	Count	Count Rate 95% CI			95% CI	Rate	95% CI				
Adenocarcinoma of the Esophagus											
Colorectal Cancer											
Kidney and Renal Pelvis Cancer											
Cancer of the Pancreas											
Endometrial Cancer		See gender-specific rate in Table 19									
Post-menopausal Breast Cancer			See gen	der-specif	ic rate in Tabl	e 19					

Count: Number of new cases diagnosed with malignant cancer

95% CI: 95% confidence interval

NA = Not applicable

Rates are calculated using SEER*Stat Version 7.0.5.

Crude rates are new cases per 100,000 population.

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

[†]Rates are flagged as unreliable when the rate is calculated with a numerator of 20 or less.

Table 19. Age-adjusted Obesity-related Cancer Incidence Rates by Sex, Maine and U.S., 2010.†

		Females								
	IV	laine Wh	ites	U.S	. Whites	U.S.	All Races			
		Age-	adjusted	Age-	-adjusted	Age-adjusted				
	Count				Rate 95% CI		95% CI			
Adenocarcinoma of the Esophagus										
Colorectal Cancer										
Kidney and Renal Pelvis Cancer										
Cancer of the Pancreas										
Endometrial Cancer										
Post-menopausal Breast Cancer										

		Males												
	N	1aine Wh	ites	U.S	. Whites	U.S. All Races Age-adjusted								
		Age-	adjusted	Age	-adjusted									
	Count	Rate	95% CI	Rate	95% CI	Rate	95% CI							
Adenocarcinoma of the Esophagus														
Colorectal Cancer														
Kidney and Renal Pelvis Cancer														
Cancer of the Pancreas														

Count: Number of new cases diagnosed with malignant cancer

95% CI: 95% confidence interval

NA = Not applicable

Rates are calculated using SEER*Stat Version 7.0.5.

Crude rates are new cases per 100,000 population.

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

[†]Rates are flagged as unreliable when the rate is calculated with a numerator of 20 or less.



Department of Health and Human Services

Maine People Living Safe, Healthy and Productive Lives

Paul R. LePage, Governor

Mary C. Mayhew, Commissioner

The Department of Health and Human Services (DHHS) does not discriminate on the basis of disability, race, color, creed, gender, age, sexual orientation, or national origin, in admission to, access to or operation of its programs, services, activities or

its hiring or employment practices. This notice is provided as required by Title II of the Americans with Disabilities Act of 1990 and in accordance with the Civil Rights Acts of 1964 as amended, Section 504 of the Rehabilitation Act of 1973 as amended, the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972

and the Maine Human Rights Act. Questions, concerns, complaints, or requests for additional information regarding civil rights may be forwarded to the DHHS' ADA Compliance/EEO Coordinator, State House Station #11, Augusta, Maine 04333, 207-287-4289 (V) or 207-287 3488 (V), TTY: Maine relay 711. Individuals who need auxiliary aids for effective communication in programs and services of DHHS are invited to make their needs and preferences known to the ADA Compliance/EEO Coordinator. This notice is available in alternate formats, upon request.



PORTLAND • GORHAM • LEWISTON • ONLINE