

Virginia Cancer Burden Overview

Nikkia L.G. Ray, MPH
Director, Virginia Cancer Registry

Dr. Jackie Knight Wilt, PhD, MPH
Cancer Epidemiologist Evaluator

Dr. Dane De Silva, PhD, MPH
Director, Division of Population Health Data

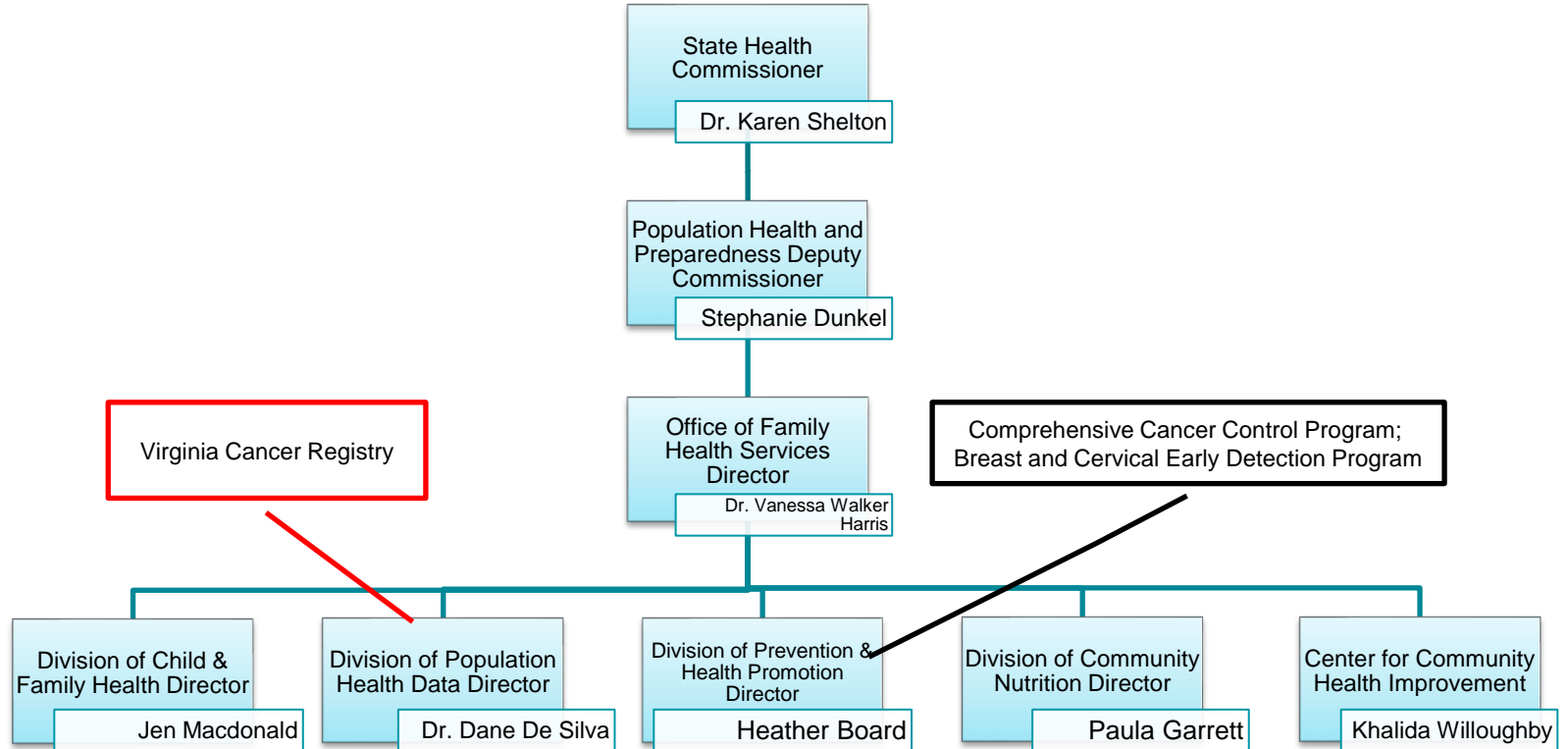


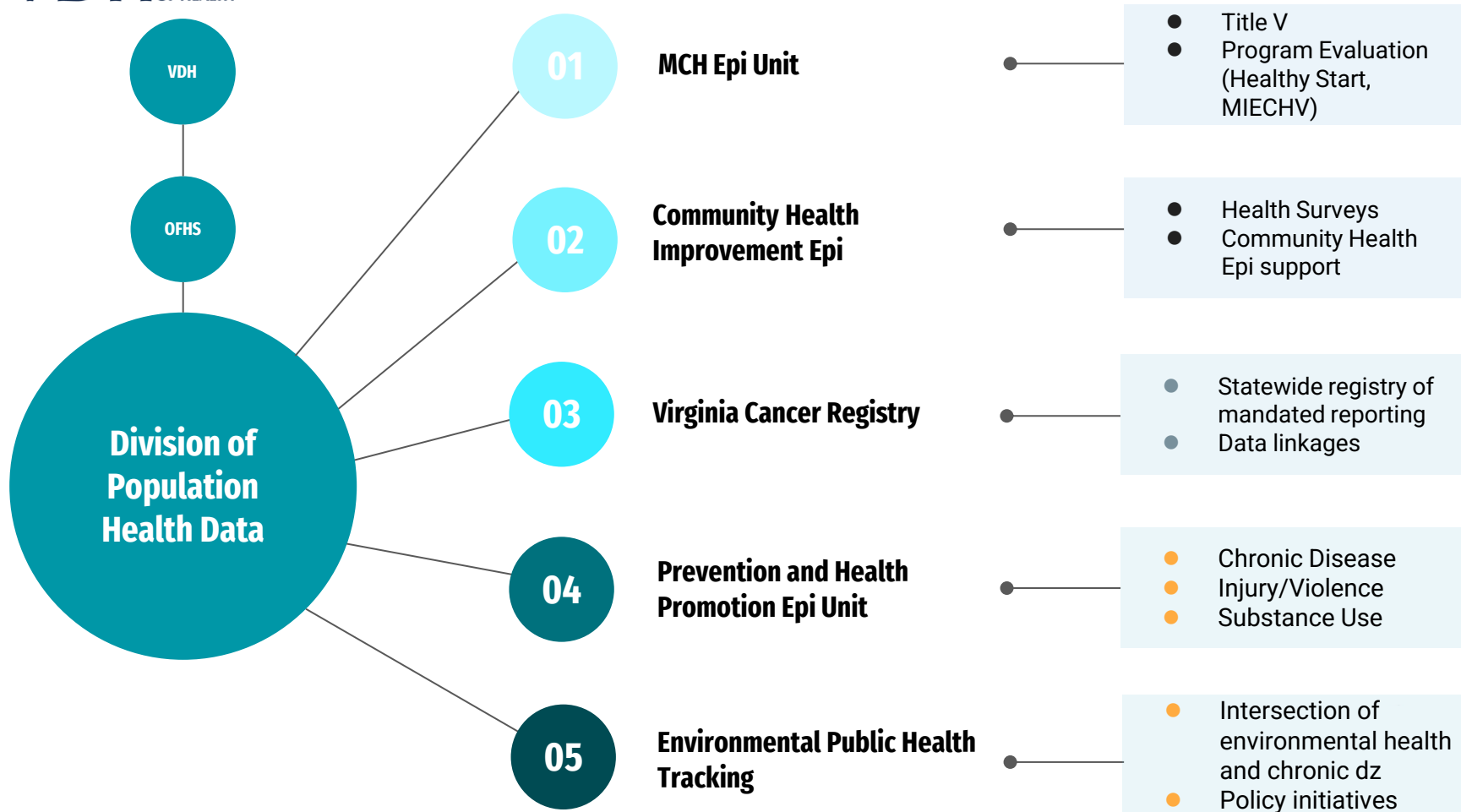
AGENDA

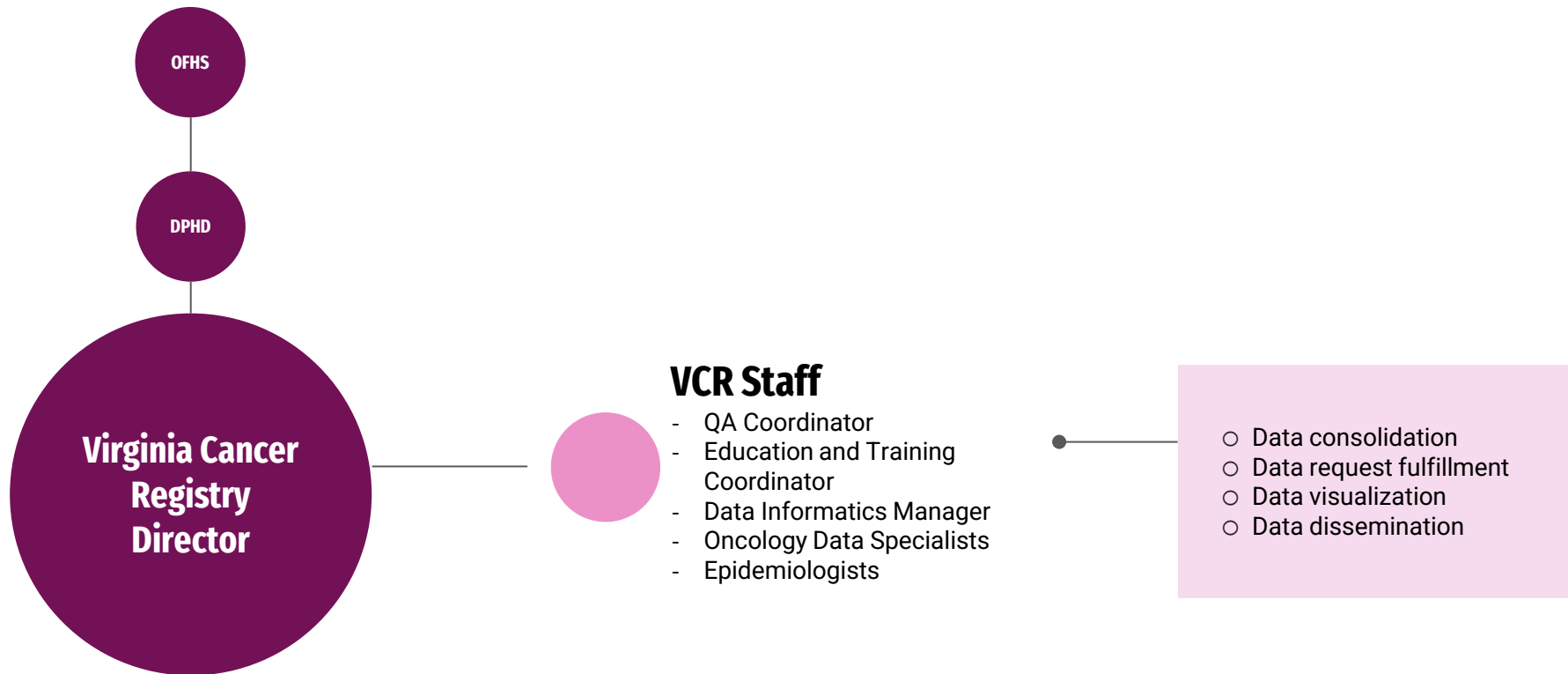
- Virginia Cancer Registry (VCR) Overview
- Incidence Data Summary
- Mortality Data Summary
- VCR Data Dashboards
- Collaborative Initiatives

VIRGINIA CANCER REGISTRY OVERVIEW

Office of Family Health Services

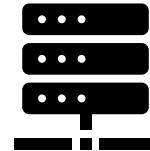






Who we are...

- VCR is a statewide population-based registry of data on individuals diagnosed or treated in Virginia, and Virginia residents who received cancer care out of state
- Out-of-state registries report approximately 5-8% of our caseload.
- The VCR is a partner in statewide activities to promote cancer prevention, early detection, and successful treatment and care.



Helps to describe the
impact of cancer in
Virginia

Assist cancer control
and prevention programs
and initiatives.

Reporting Requirements

- Code of Virginia Section 32.1-70 law mandates that all facilities, labs and physicians who diagnose and/or treat cancer report cases to VCR.
- We are an incidence registry only.
 - Collect all active cancer cases that are diagnosed and have their first course of treatment in the state of Virginia.
 - Second course treatment not collected.
- We do collect death information for all patients.
- Residents of Virginia treated out-of-state are reported to us through interstate agreements.

What we collect...

Demographic

- Age
- Sex
- Race
- Ethnicity
- Residence address
- Occupation

Diagnostic

- Type of cancer diagnosed
- Location of the cancer in the body
- the size of the cancer
- Diagnosis date
- Spread of the disease at the time of diagnosis

Treatment

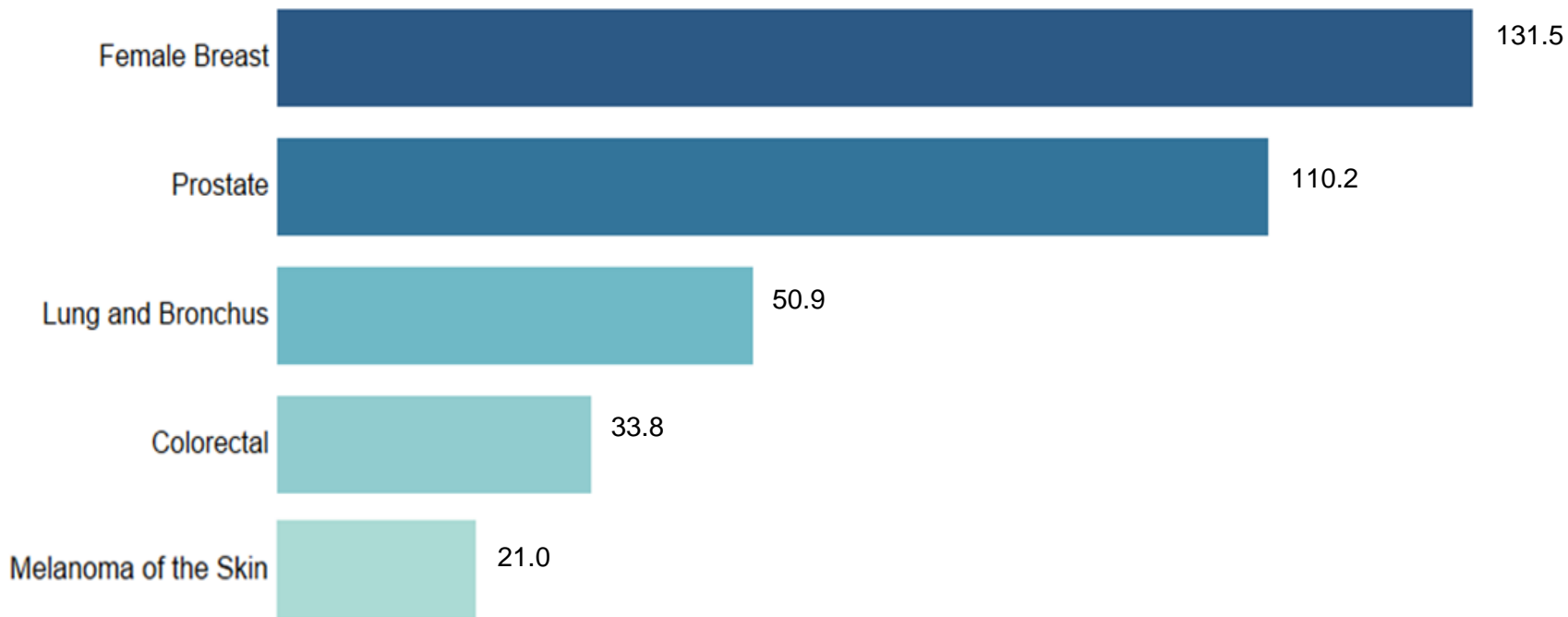
- Date of treatment
- Types of treatment

INCIDENCE SUMMARY DATA

VCR 5 Year Incidence Data Summary 2018-2022*

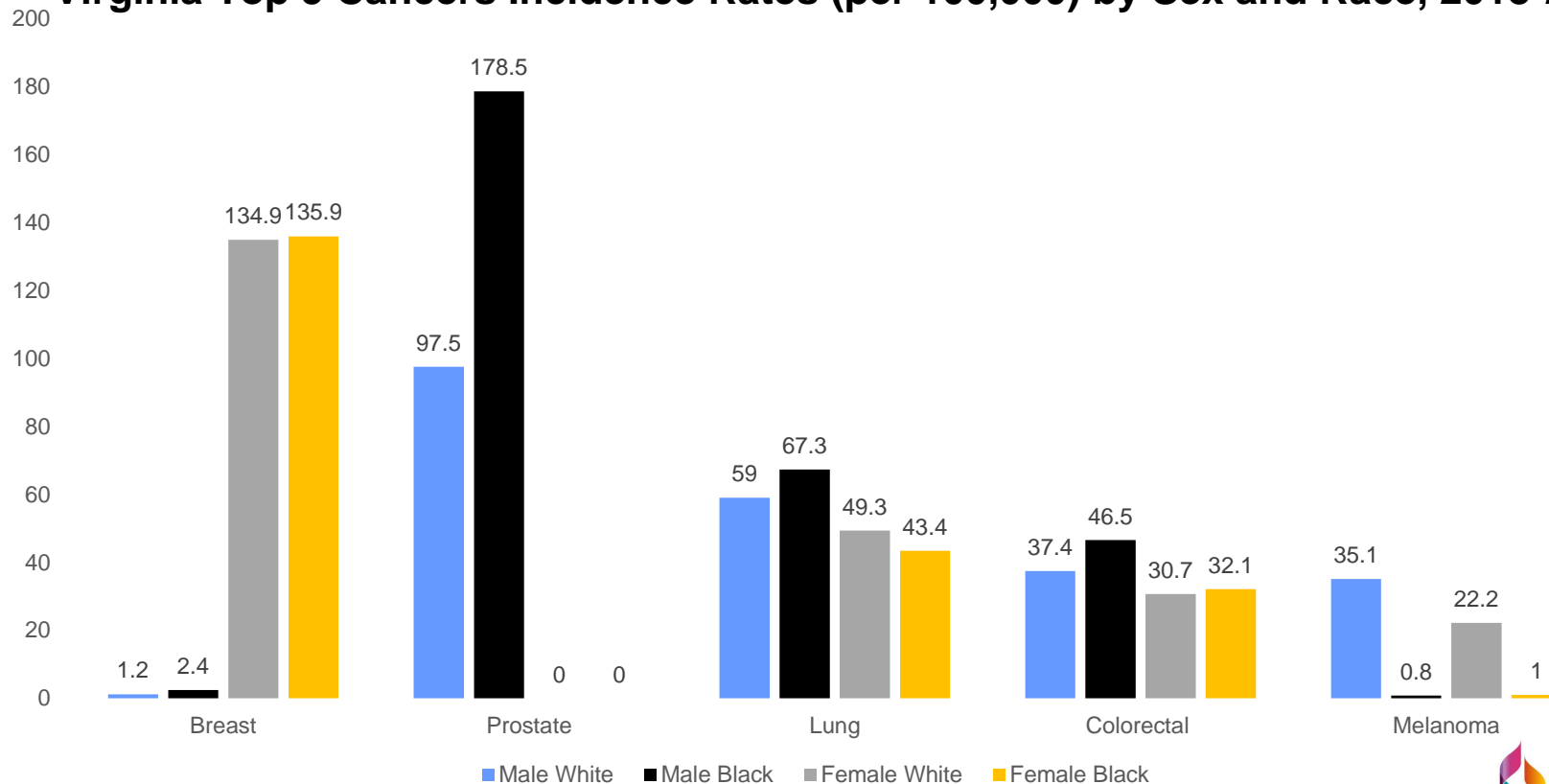
- 44,693 of Virginians were diagnosed with cancer in 2022.
- The American Cancer Society estimates there are 432,570 cancer survivors living in Virginia as of January 1, 2022.
- The cancer incidence rate for Virginia decreased from 429.1 (per 100,000) in 2013 to 413.6 (per 100,000) in 2022 (4% decrease).

Virginia Top 5 Cancers by Incidence Rate Per 100,000 Population



Rates are per 100,000 and age-adjusted to the 2000 U.S. Std Population (age <1 and 90+ - Census P25-1130) standard.
 Software: Surveillance Research Program, National Cancer Institute SEER*State Software (www.seer.cancer.gov/seerstat) version 8.4.3
 Data Source: Virginia Cancer Registry 1995-2022, 6/2025
 The data displayed for the following cancers is sex-specific: female breast, ovary, cervix uteri, corpus and uterus, NOS and prostate.
 * Statistic not displayed due to fewer than 16 cases.

Virginia Top 5 Cancers Incidence Rates (per 100,000) by Sex and Race, 2018-2022



Data Source: Virginia Cancer Registry, SEER*STAT software version 8.4.3, VA 2012-2022

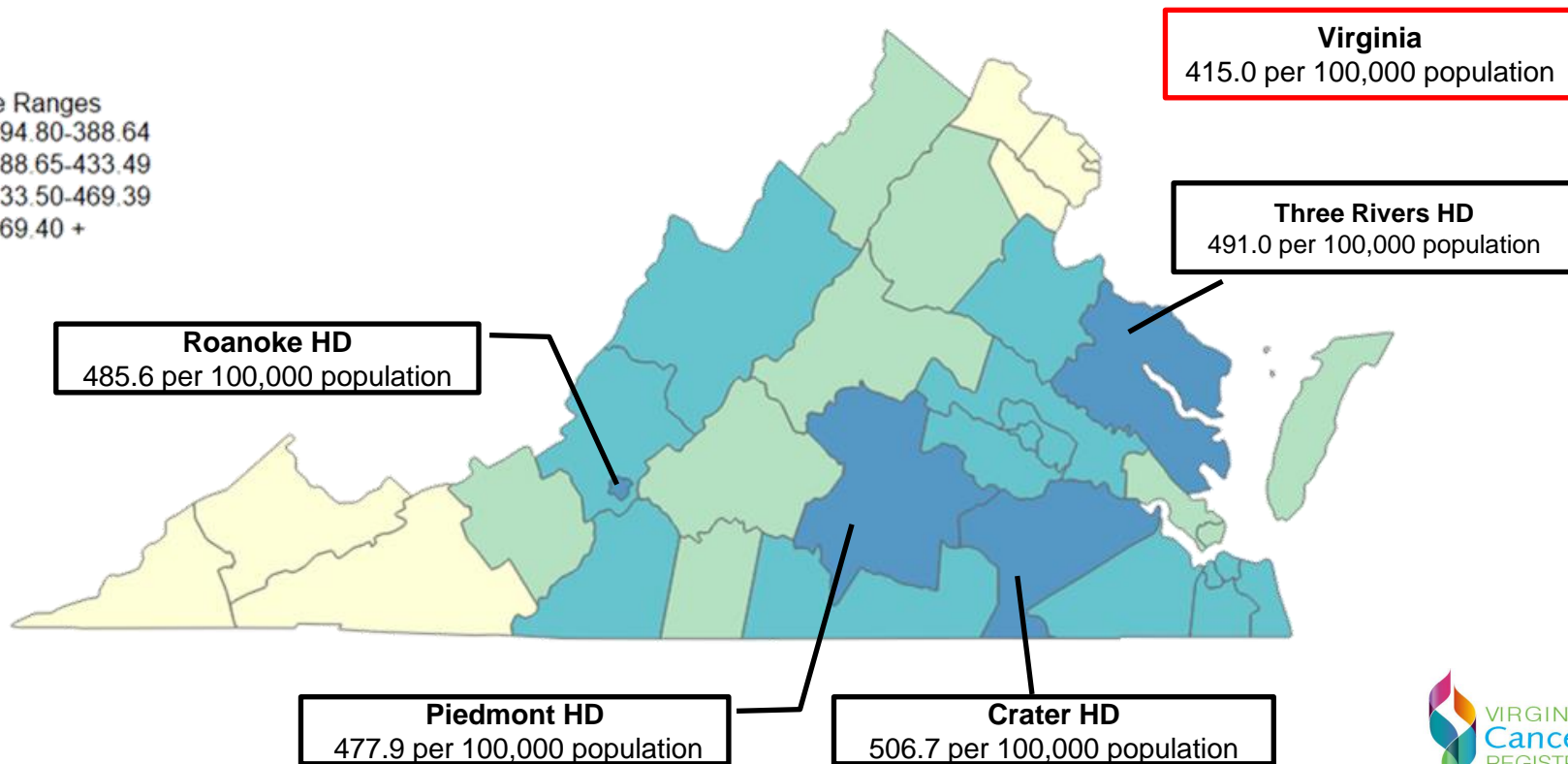
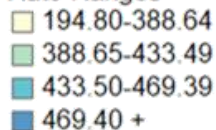
VCR 5 Year Incidence Data Summary 2018-2022*

- Black males had a higher incidence of cancer compared with all other race/gender combinations in Virginia.
- Female breast cancer incidence did not differ substantially between Black and White women in Virginia. However, Black Virginian women have a mortality rate that is about 38 percent higher than that of White women.

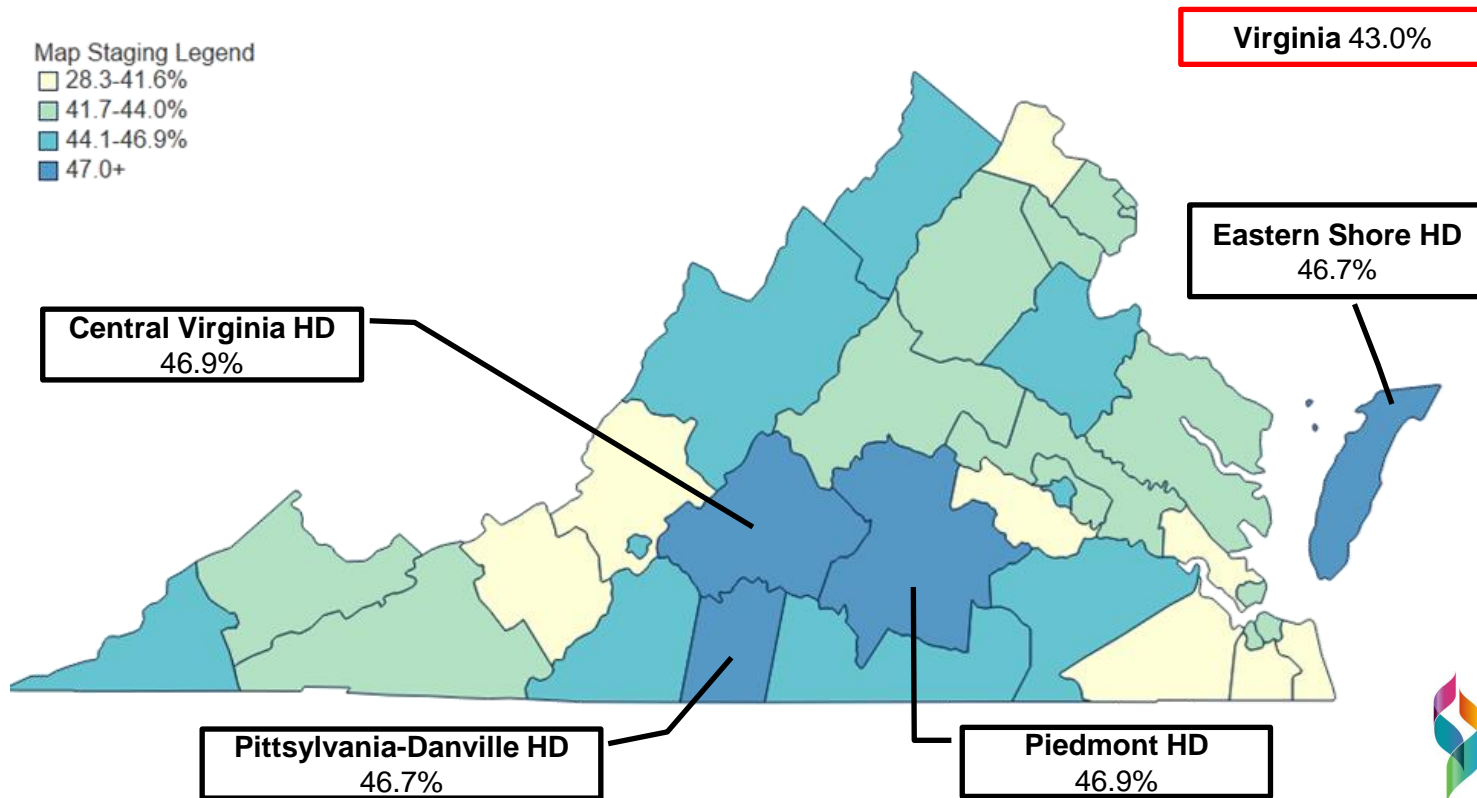
High Cancer Incidence Areas in Virginia by Health District

Incidence Rate for All Cancer Sites among All Races and Male & Female.

Rate Ranges



Percentage of New Cancers Diagnosed at Late Stage in Virginia by Health District

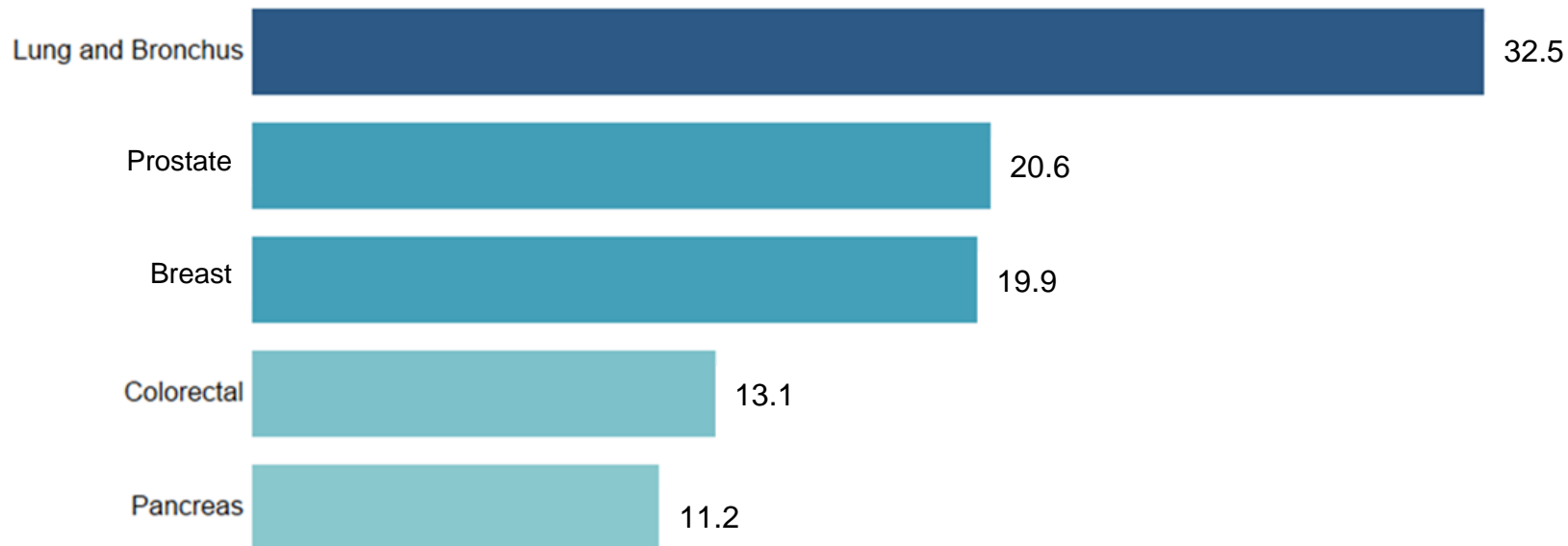


MORTALITY SUMMARY DATA

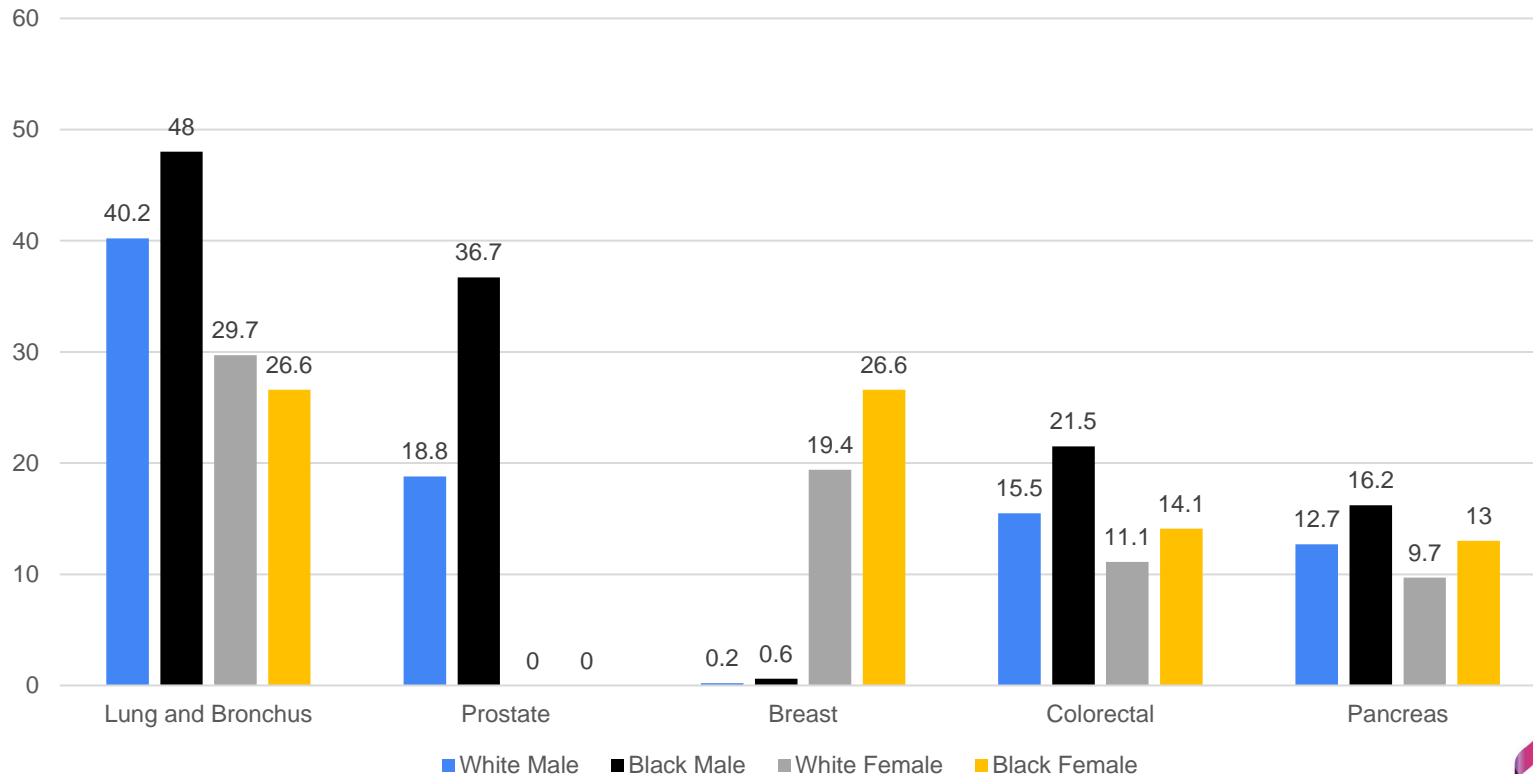
VCR 5 Year Mortality Data Summary 2019-2023

- 15,971 Virginians died of cancer in 2023.
- The cancer mortality rate for Virginia decreased from 163.3 (per 100,000) in 2014 to 144.5 (per 100,000) in 2023 (13% decrease)

Virginia Top 5 Cancers by Mortality Rate Per 100,000 Population



Virginia Top 5 Cancers Mortality Rates (per 100,000) by Sex and Race, 2019-2023



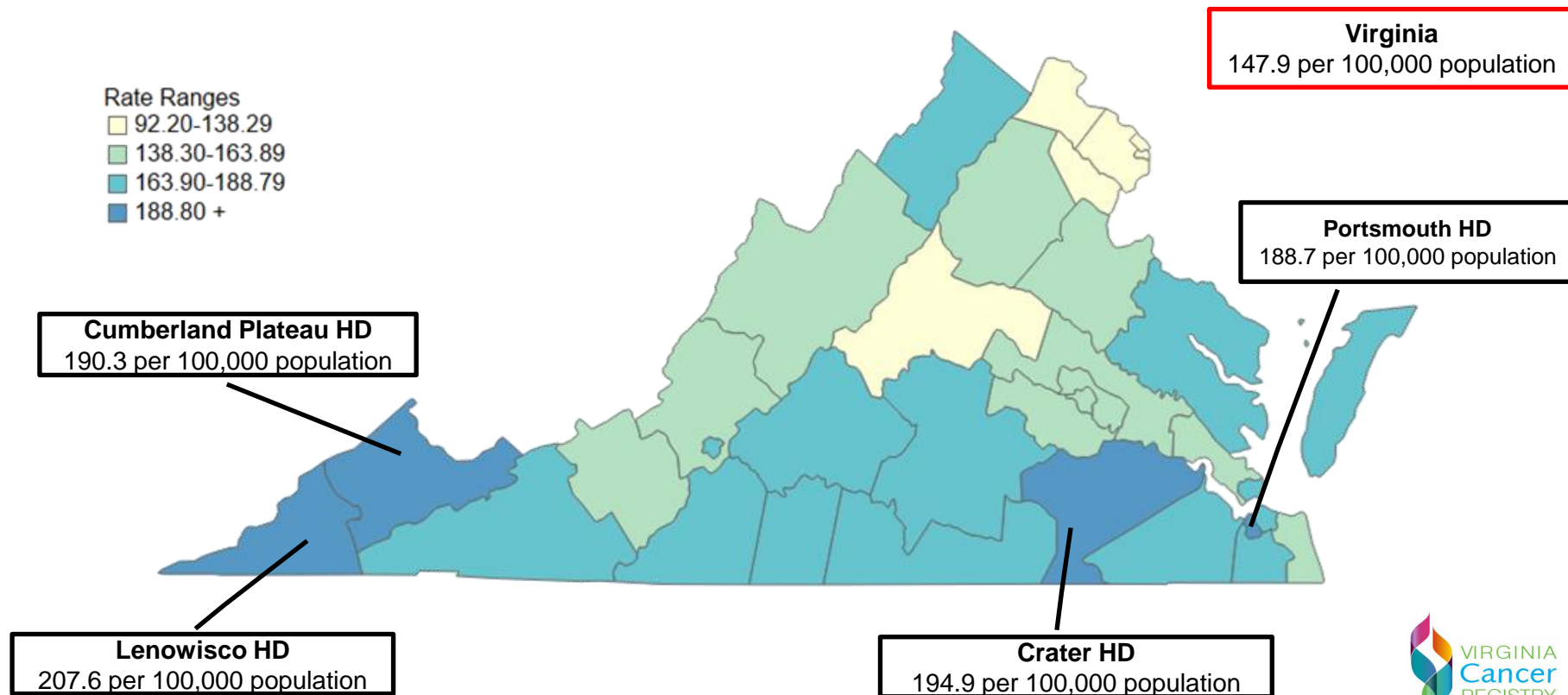
Data Source: Surveillance, Epidemiology, and End Results (SEER) Program, All COD, Aggregated With State, Total U.S. (1990-2023)

VCR 5 Year Mortality Data Summary 2019-2023* (cont.)

- The cancer mortality rate for Black Virginians was 12% higher than White Virginians in 2023.
- Prostate cancer is the second leading cause of cancer death among men in 2023.
- Female breast cancer is the second leading cause of cancer death among all women.

High Cancer Mortality Areas in Virginia by Health District

Mortality Rate for All Cancer Sites among All Races and Male & Female.



DATA DASHBOARDS

Virginia Cancer Registry Dashboards

- A collection of individual dashboards providing cancer data by locality, health district, sex, race, and cancer site.
- Demonstrate the burden of cancer incidence and mortality in Virginia.
- Cover aggregate data for the years 2018 - 2022 for both incidence and mortality statistics of the following cancers: Cervix Uteri, Colorectal, Female Breast, Hodgkin Lymphoma, Kidney and Renal Pelvis, Leukemia, Liver and Intrahepatic Bile Duct, Lung & Bronchus, Melanoma of the Skin, Myeloma, Non-Hodgkin Lymphoma, Oral Cavity & Pharynx, Ovary, Pancreas, Prostate, and Thyroid.

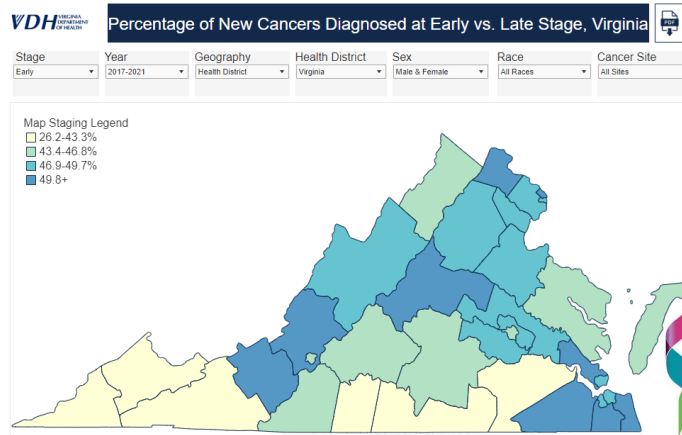
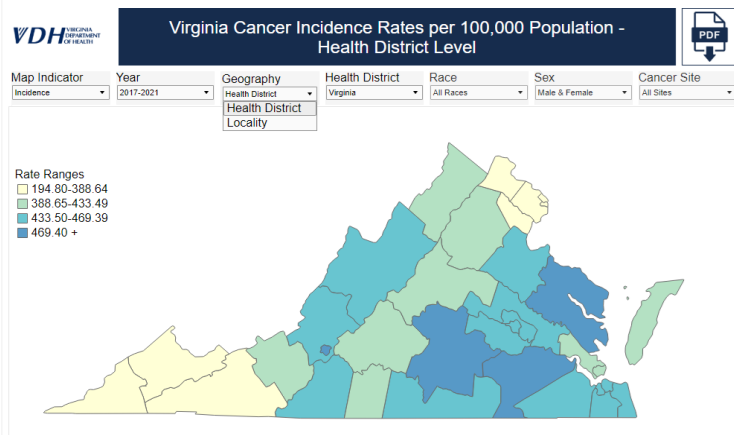
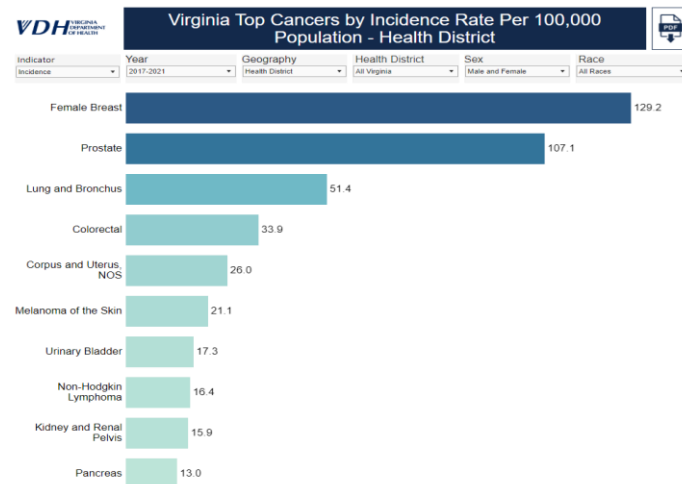
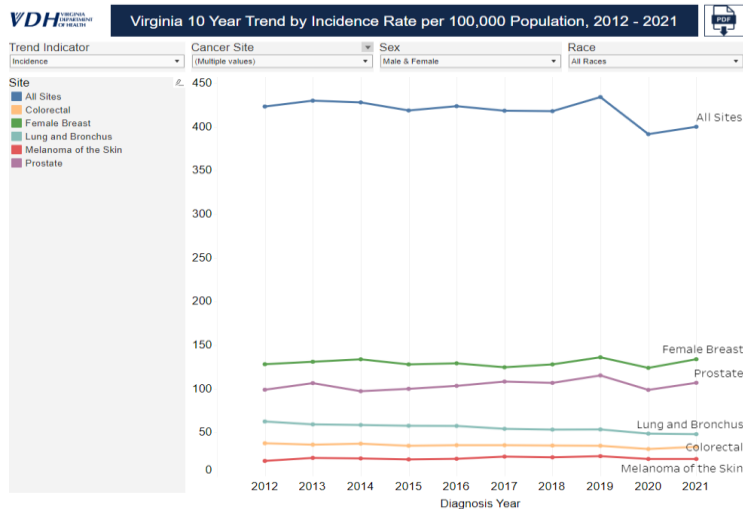


Virginia Cancer Registry Dashboards

Currently, there are 4 available dashboards* providing cancer data for:

- Virginia Incidence and Mortality 10-year trend
- Virginia Top 10 cancers (rolling 5-year aggregate)
- Virginia Early/Late Staging map
- Virginia Incidence/Mortality (rolling 5-year aggregate)

*Dashboards are currently being updated to reflect the most current years of data available:



COLLABORATIVE INITIATIVES

CDC-Funded Cancer Programs at VDH

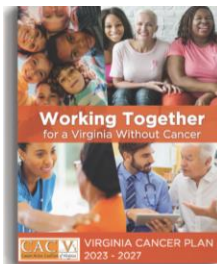
- **Virginia Breast and Cervical Cancer Early Detection Program (VABCCEDP/EWL):** helps uninsured, low-income women across the Commonwealth gain access to free breast and cervical cancer screening services. <https://www.vdh.virginia.gov/every-womans-life/>
- **Virginia Comprehensive Cancer Control Program (VACCCP):** works to reduce cancer burden through prevention, early detection, and treatment by advancing policy, education, and partnerships—such as its collaboration with the Cancer Action Coalition of Virginia. <https://www.vdh.virginia.gov/cancer/comprehensive-cancer-control/>
- **Virginia Cancer Registry (VCR):** collects cancer data statewide. Tracks statewide cancer incidence, trends, and disparities <https://www.vdh.virginia.gov/virginia-cancer-registry/>

Virginia Comprehensive Cancer Control Program (VACCCP)

- Beginning in 2001, VDH has received repetitive 5-year grant funding cycles from the CDC to:
 - Maintain and support the state cancer coalition (CACV)
 - Develop the Virginia Cancer Plan (VCP) every 5 years
 - Work with coalition partners to implement the VCP through evidence-based interventions and policy, systems, and environmental (PSE) change
 - Evaluate collective efforts to reduce the burden of cancer

- Cancer Action Coalition of Virginia (CACV): <https://cancercoalitionofvirginia.org/>
 - A statewide, nonprofit, 501(c)(3) coalition founded in 1998 to “reduce the burden of cancer for all persons living in Virginia,” via collaboration, education, and advocacy
 - Representation from Cancer Centers, Healthcare Systems, Private Sector, State Health Departments, Community Non-Profit Organizations, Academic Institutions, Individual Members





A Virginia Without Cancer

The Virginia Cancer Plan

The **Virginia Cancer Plan** provides a roadmap to help Virginia residents address the burden of cancer by providing data, guidance, information, and links to resources for all Virginians. The objectives of the plan are based on an evaluation of cancer incidence, mortality, and burden in Virginia.



PREVENTION

Encouraging Virginians to adopt healthy behaviors and avoid unhealthy environments



EARLY DETECTION

Promoting the benefits of and improving access to cancer screening to ensure early detection



DIAGNOSIS AND CANCER DIRECTED THERAPY

Reducing the barriers to care, promoting evidence-based practices, and encouraging participation in clinical trials



SURVIVORSHIP AND PALLIATIVE CARE

Ensuring resources to optimize quality of life for all Virginians diagnosed with cancer



PEDIATRIC, ADOLESCENT & YOUNG ADULT CANCERS

Improving access to long-term care and support systems for pediatric, adolescent, and young adult patients with cancer

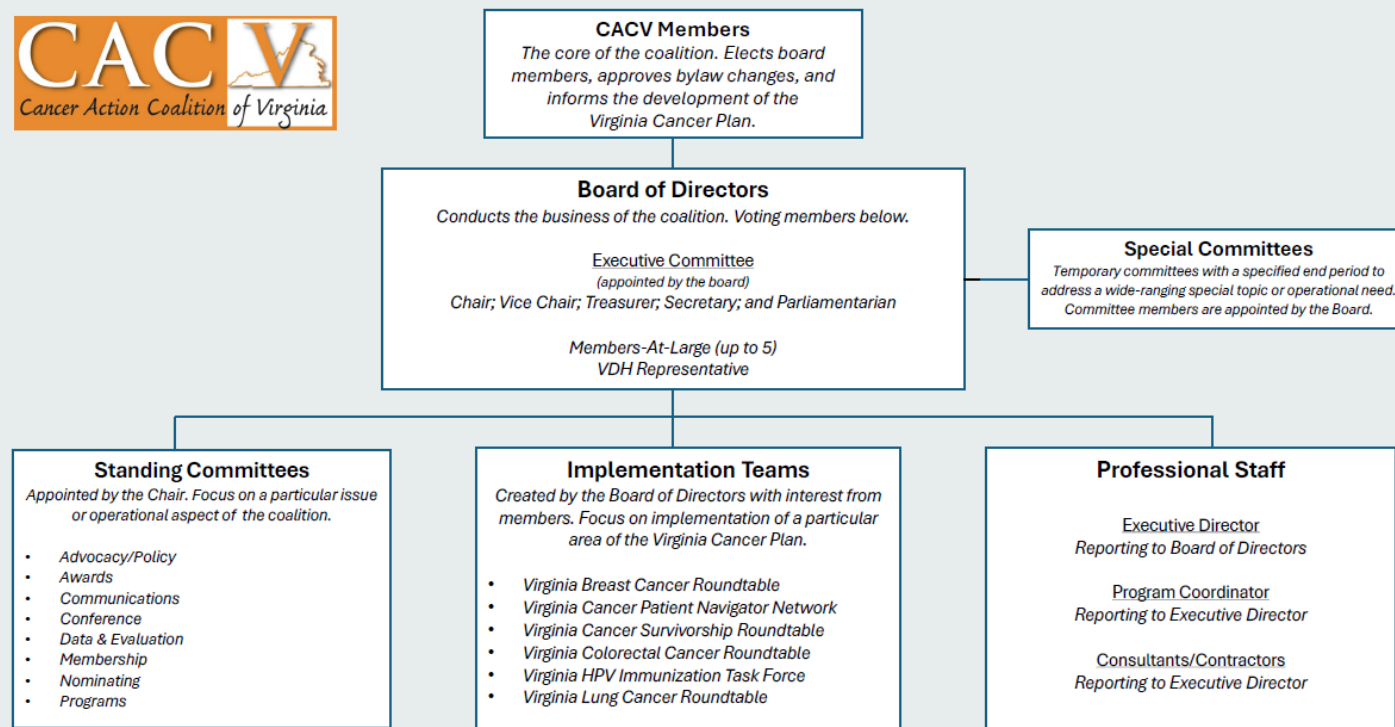


Health Equity: Ensuring health equity is a priority throughout the cancer care continuum by advocating for strategies that address avoidable inequalities, historical and contemporary injustices, and social determinants of health



About CACV: CACV is an alliance of organizations and individuals working together to develop the Virginia Cancer Plan and provide statewide guidance, support, leadership, and coordination of cancer prevention and control activities throughout the Commonwealth of Virginia.

Organizational Chart



VDH Cancer Program Roles in CACV

Program	Role in CACV Collaboration
Virginia Cancer Registry (VCR)	<ul style="list-style-type: none"> • Provides cancer surveillance data that informs CACV strategies and Virginia Cancer Plan priorities. • Tracks trends, disparities, and outcomes. • Supports data needs for CACV roundtables and evaluation.
VA Breast & Cervical Cancer Program (VABCCEDP)	<ul style="list-style-type: none"> • Increases screening access for underserved women, aligning with CACV's prevention and equity goals. • Informs CACV breast/cervical roundtables with program insights. • Shares data and promotes early detection initiatives.
VA Comprehensive Cancer Control Program (VACCCP)	<ul style="list-style-type: none"> • Leads coordination of the Virginia Cancer Plan through CACV. • Facilitates coalition engagement and statewide cancer control efforts. • Aligns policy and systems change with CACV roundtable priorities.

Questions?

<https://www.vdh.virginia.gov/virginia-cancer-registry/>

Nikkia.Ray@vdh.virginia.gov
Jackie.KnightWilt@vdh.virginia.gov
Dane.Desilva@vdh.virginia.gov