

Maintaining/Retaining Health in Virginia

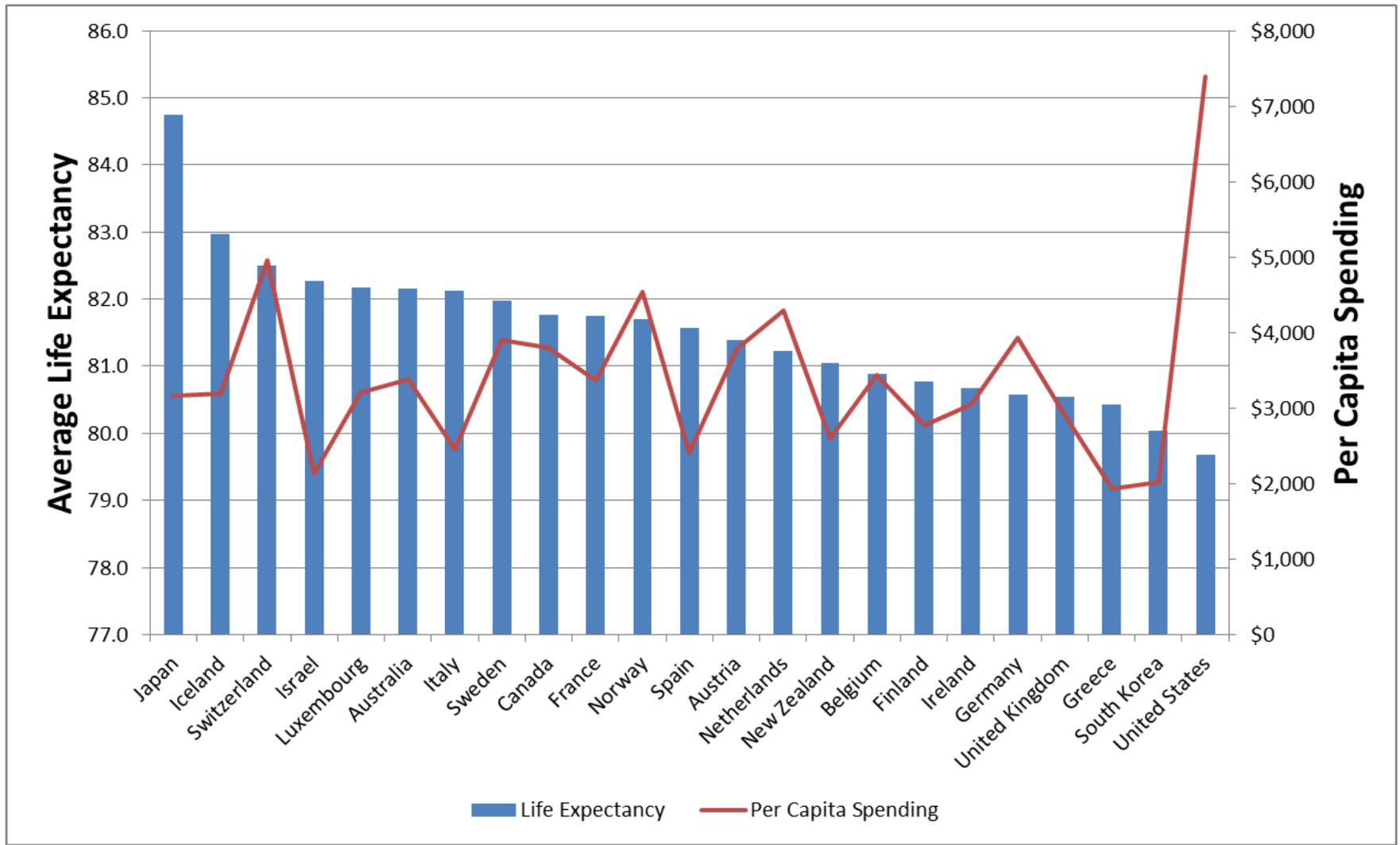
Presentation to House Appropriations Committee
Marissa J. Levine, MD, MPH, FAAFP
State Health Commissioner
Virginia Department of Health

May 16, 2016

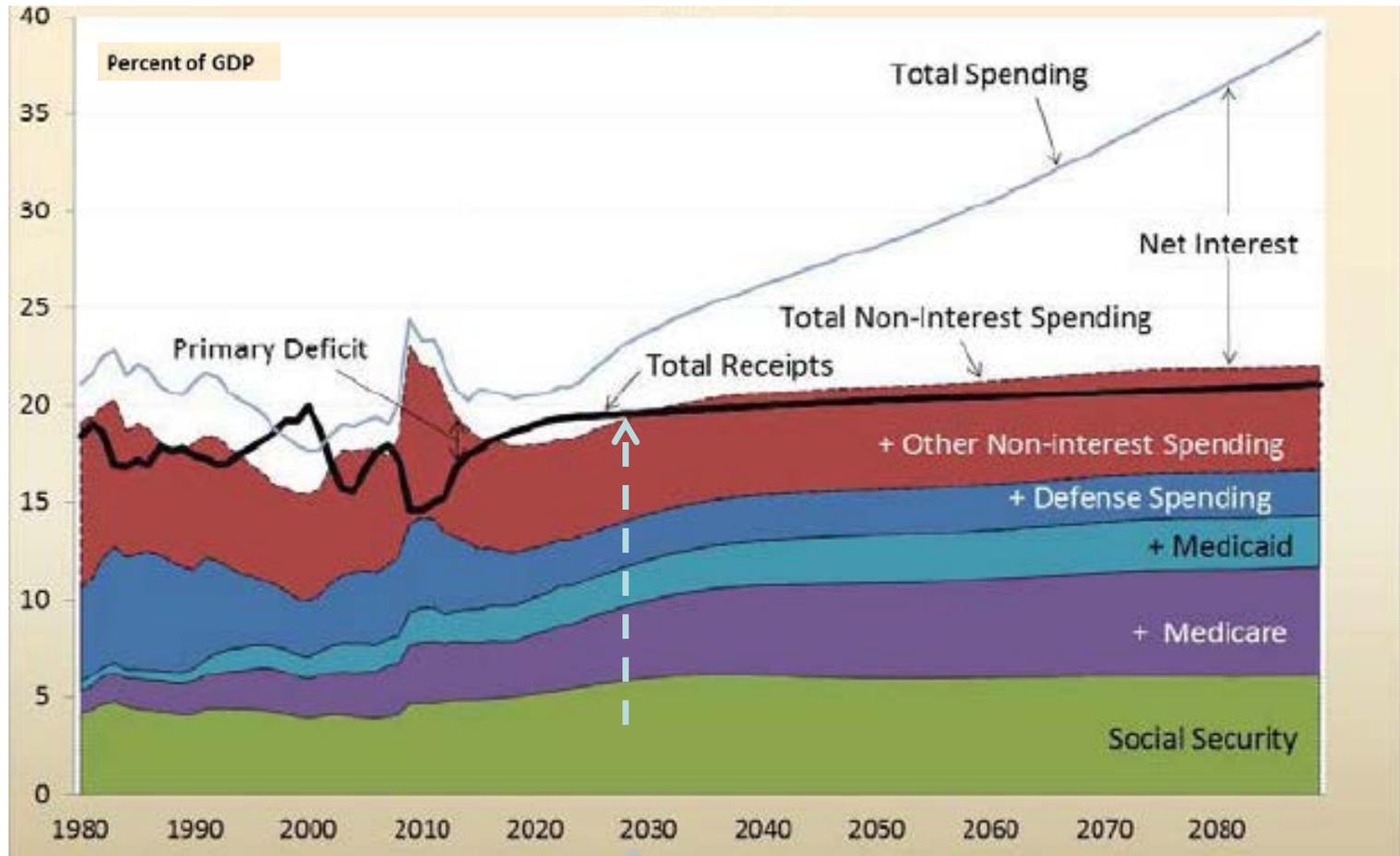
Overview

- Population Health
- Zika Virus Disease

Cost of a Long Life



Data Source: Life Expectancy from Central Intelligence Agency World Fact book (2015), and Per Capita Spending on Healthcare in current US dollars (OECD, 2012)



Beginning in 2030,
mandatory spending
will exceed
government revenues

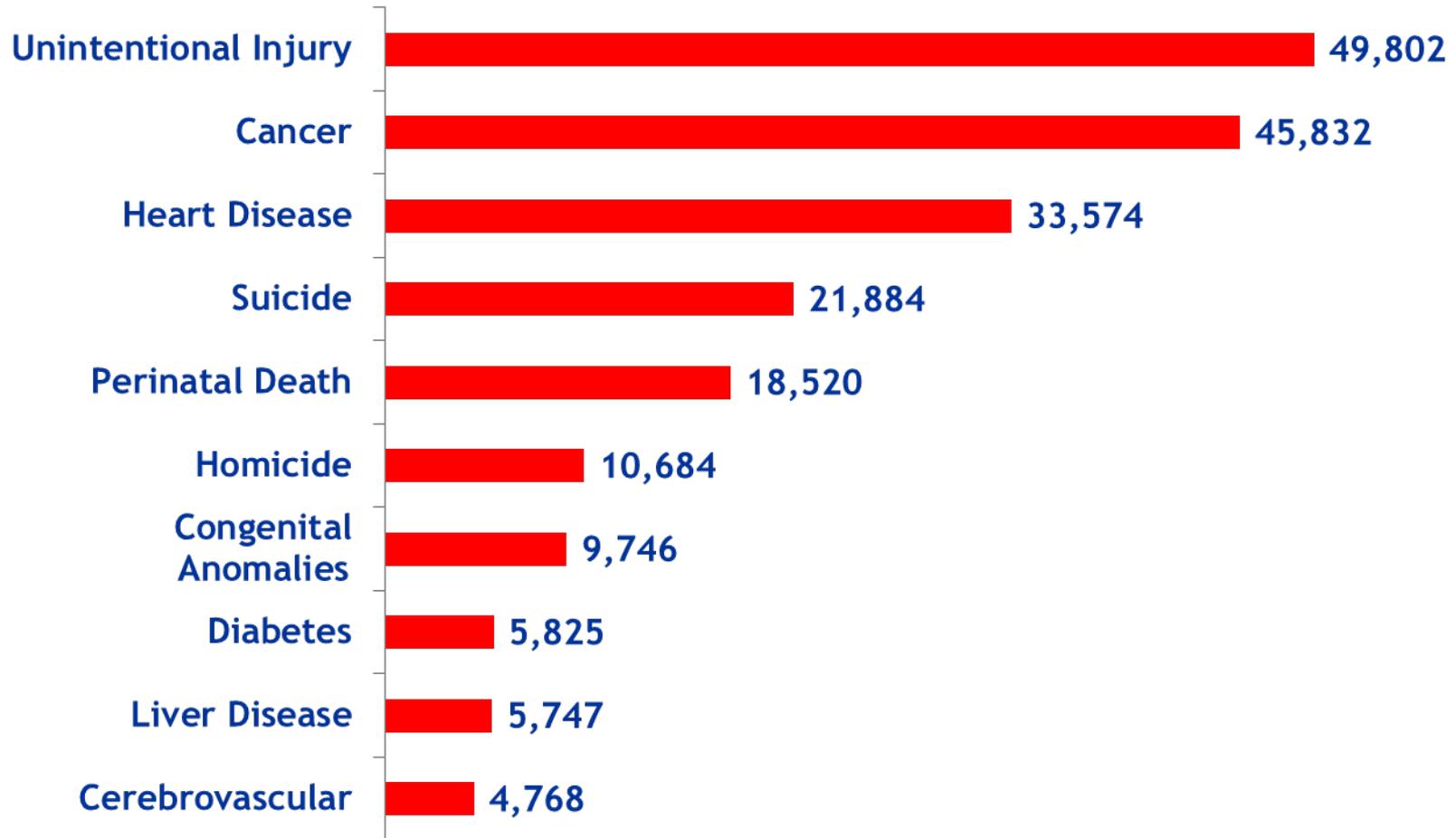
Source: US Department of the Treasury, 2014

Years of Potential Life Lost before age 65, Virginia 2013



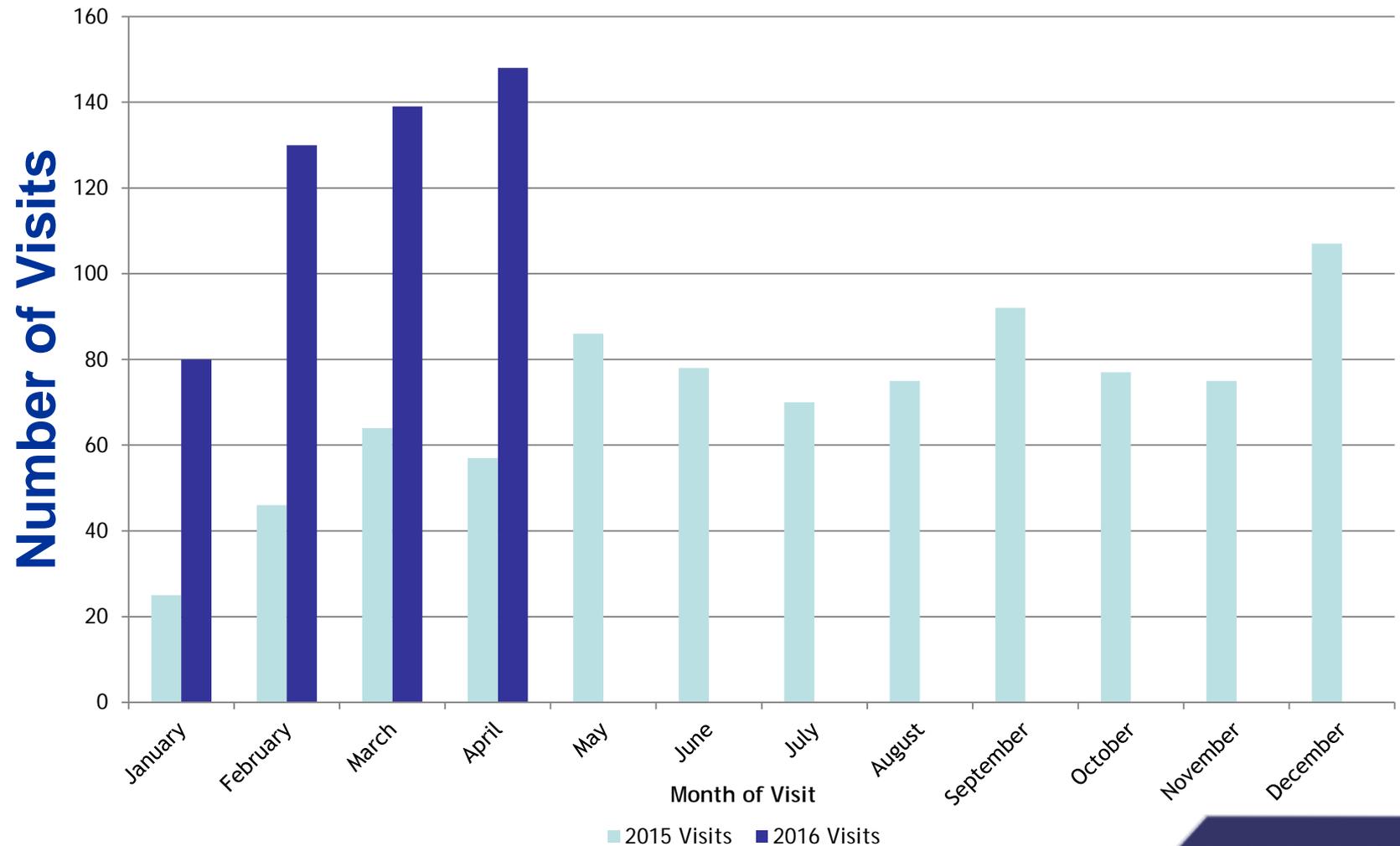
Data Source: National Center for Health Statistics Vital Statistics System for Virginia 2013.
Data includes all races, both sexes, all deaths

Years of Potential Life Lost before age 65, Virginia 2014



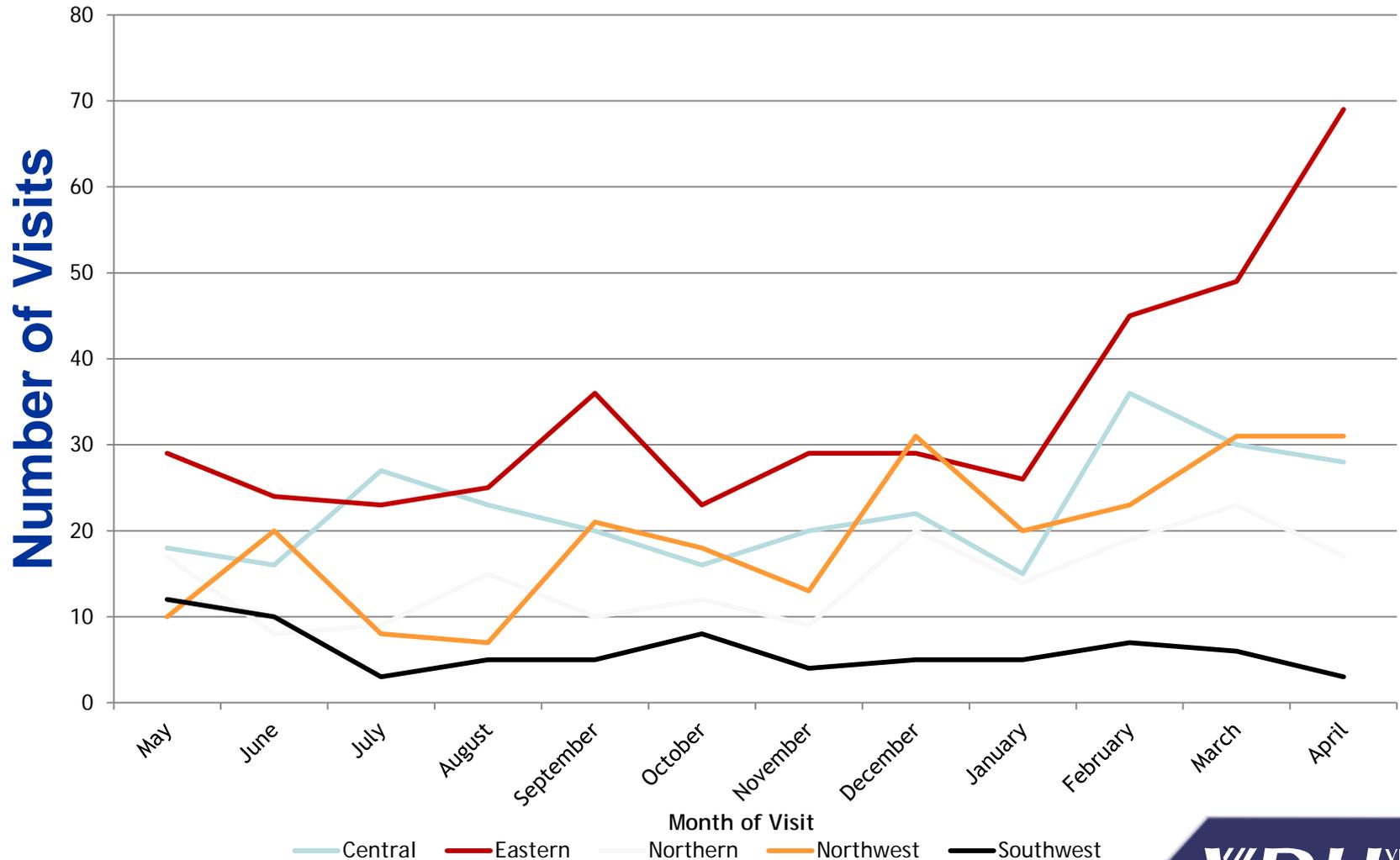
Data Source: National Center for Health Statistics Vital Statistics System for Virginia 2014.
Data includes all races, both sexes, all deaths

Number of Emergency Department Visits with Chief Complaint or Discharge Diagnosis of Unintentional Heroin Overdose among Virginia Residents by Month, 2015-2016



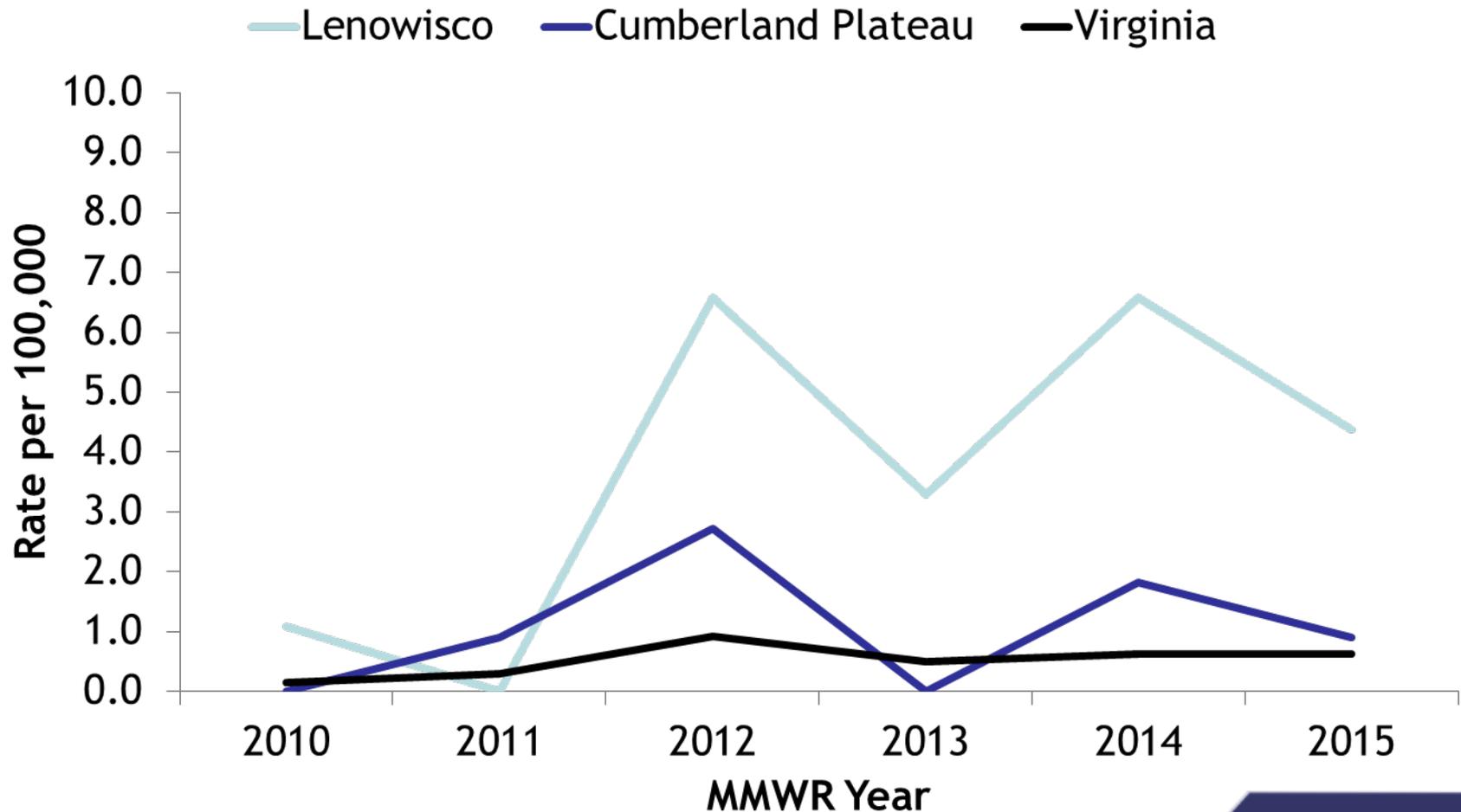
Data Source: Electronic Surveillance System for Early Notification of Community-based Epidemics, May 2, 2016

Number of Emergency Department Visits with Chief Complaint or Discharge Diagnosis of Unintentional Heroin Overdose among Virginia Residents by Month and Region, Previous 12 Months

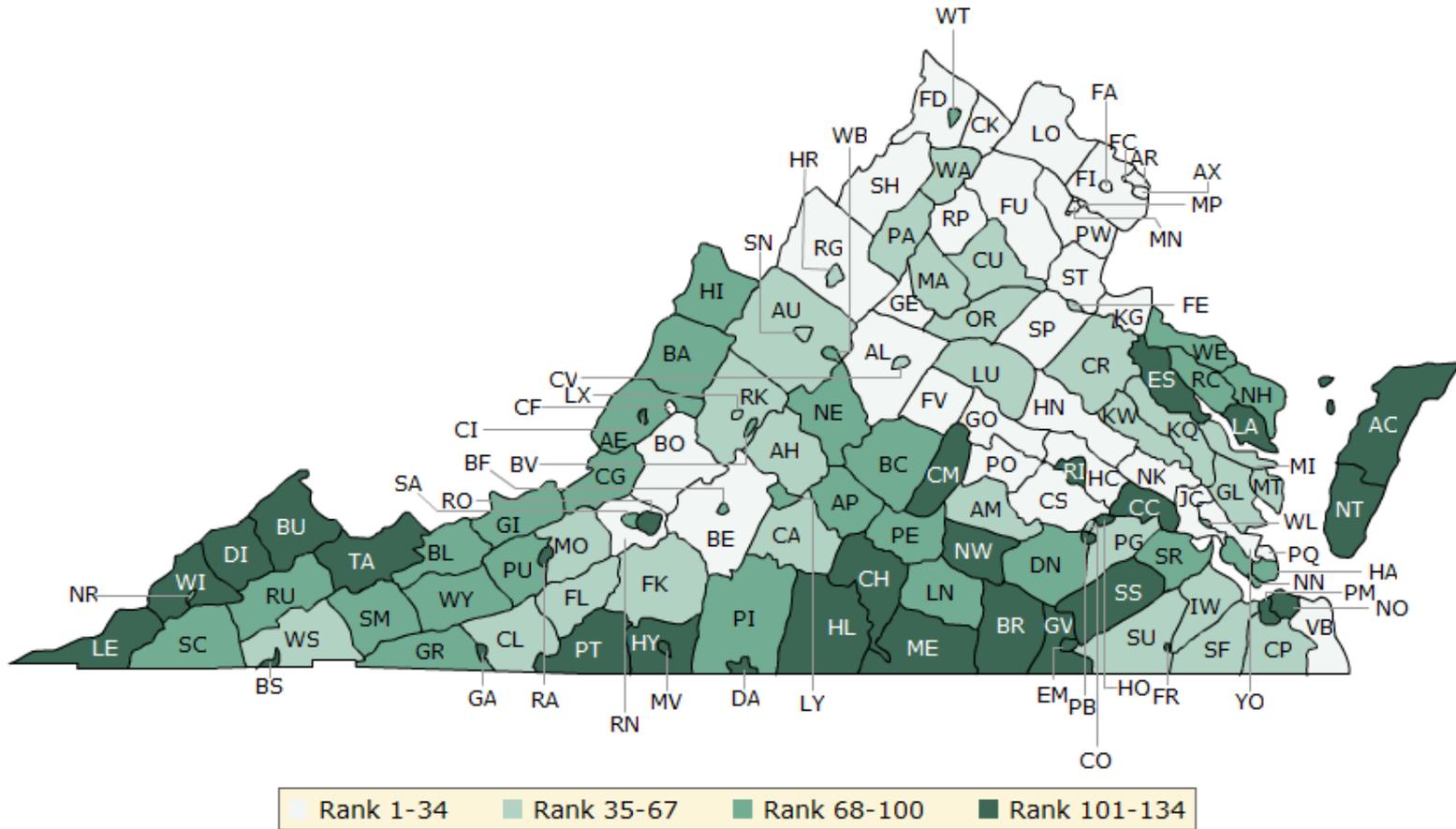


Data Source: Electronic Surveillance System for Early Notification of Community-based Epidemics, May 2, 2016

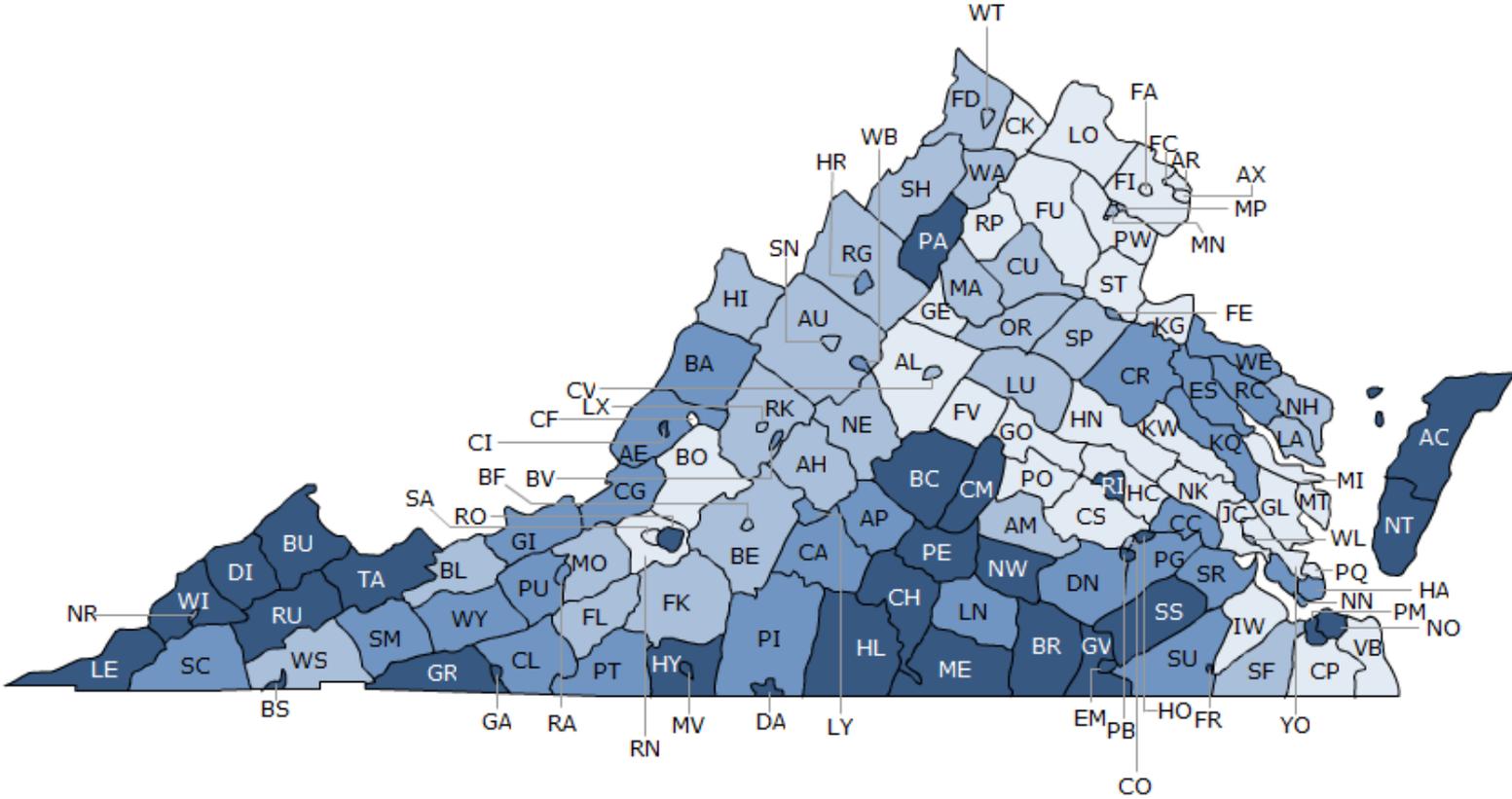
Acute Hepatitis C Virus Cases per 100,000 Persons by District, Virginia 2010-2015



Health Outcome Rankings for Virginia Counties (2016)



Health Factor Rankings for Virginia Counties (2016)



Rank 1-34 Rank 35-67 Rank 68-100 Rank 101-134

HEALTH STATUS AMONG ALL STATES



Health Care Cost: Background

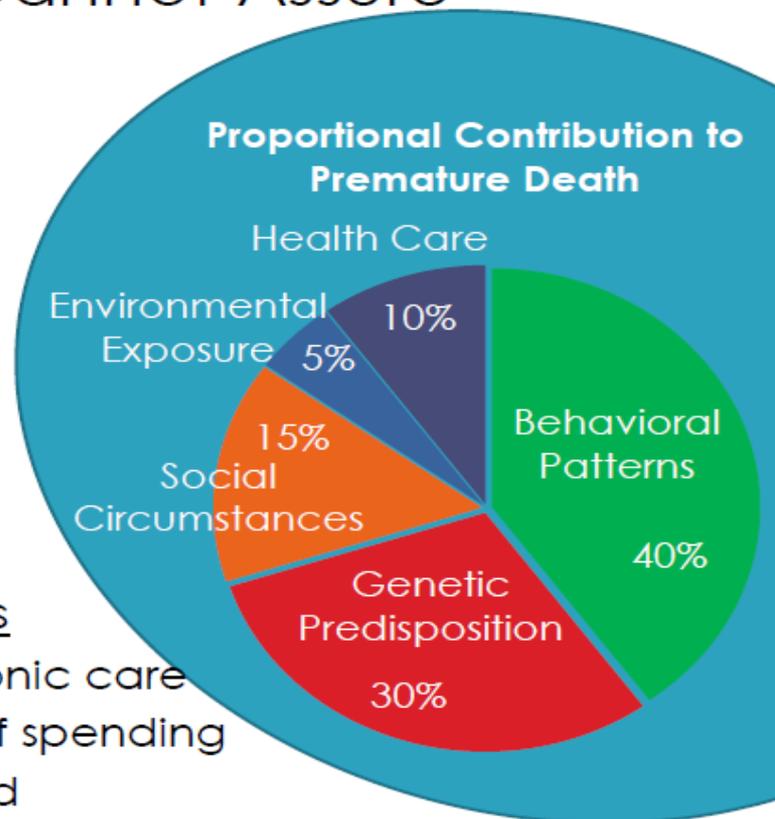
Excellent Health Care Cannot Assure an Individual's Health

Health Is Influenced by 5 Factors

- Genetic predisposition
- Social circumstances
- Environmental exposures
- Behavioral patterns, and
- Health care

U.S. Health Care Expenditure Facts

- 75% of expenditures related to chronic care
- 5% of individuals account for 50% of spending
- 3.5% is spent toward prevention and public health services



Sources: Steven A. Schroeder M.D., We Can Do Better-Improving the Health of American People, N Engl J Med 2007; 357:1221-8, GAO, Preventive Health Activities, December 2012 at <http://www.gao.gov/assets/660/650617.pdf>, and American Public Health Association, Issue Brief: The Prevention and Public Health Fund, July 2012 at http://www.apha.org/NR/rdonlyres/8FA13774-AA47-43F2-838B-1B0757D111C6/0/APHA_PrevFundBrief_June2012.pdf.

Factors that Affect Health

Examples

Smallest
Impact

Counseling
& Education

Eat healthy, be
physically active

Clinical
Interventions

Rx for high blood
pressure, high
cholesterol, diabetes

Long-lasting
Protective Interventions

Immunizations, brief
intervention, cessation
treatment, colonoscopy

Changing the Context
*to make individuals' default
decisions healthy*

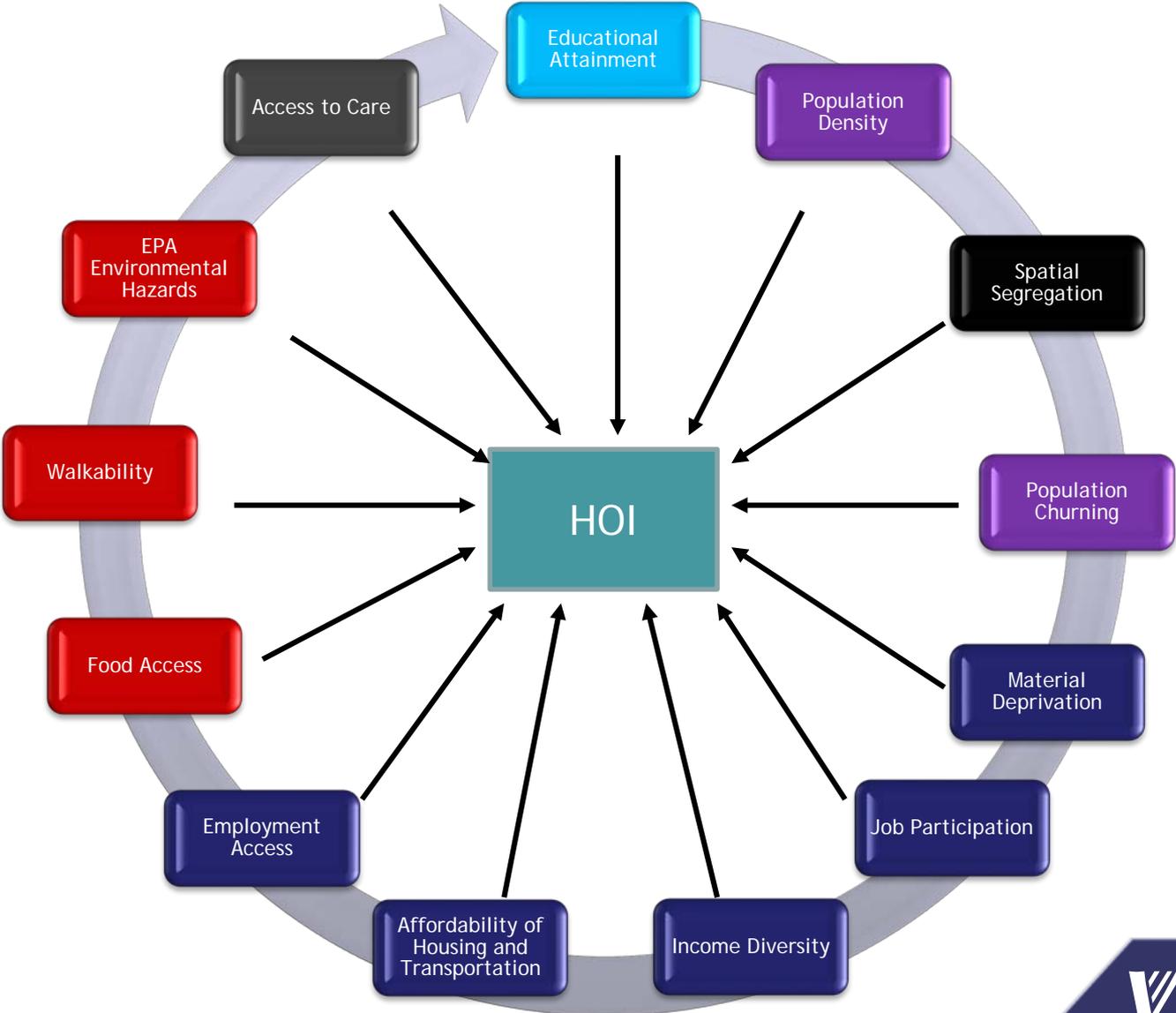
Fluoridation, 0g trans
fat, iodization, smoke-
free laws, tobacco tax

Socioeconomic Factors

Poverty, education,
housing, inequality

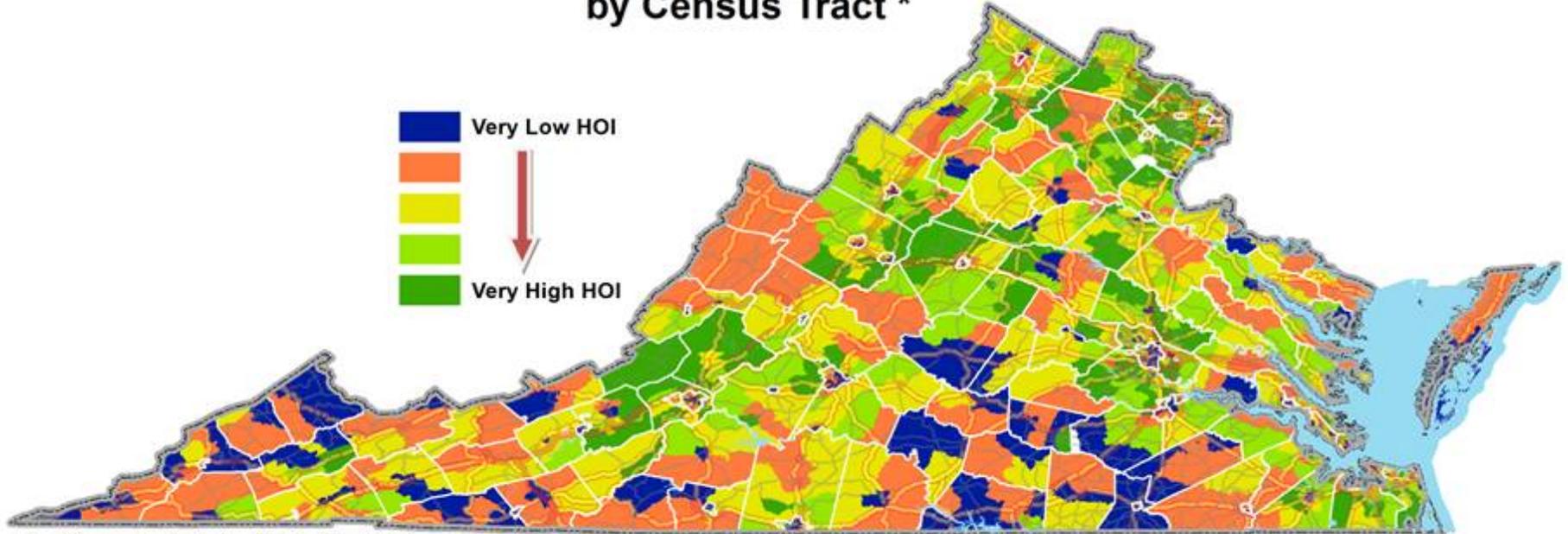
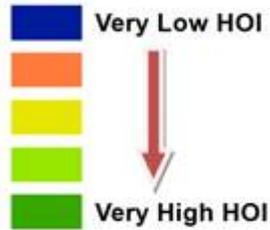
Largest
Impact

Health Opportunity Index

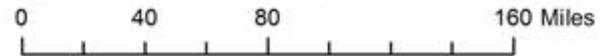


Virginia

Health Opportunity Index (HOI) by Census Tract *



* Health opportunity Index (HOI) – The HOI is a composite measure comprising 13 indices that reflect a broad array of social determinants of health



Health Status
Assessment

Redefine
Health

Data-driven
decision
making and
feedback

Strong Start for All Children

Build
Prevention
Everywhere

Create a
System of
Healthcare

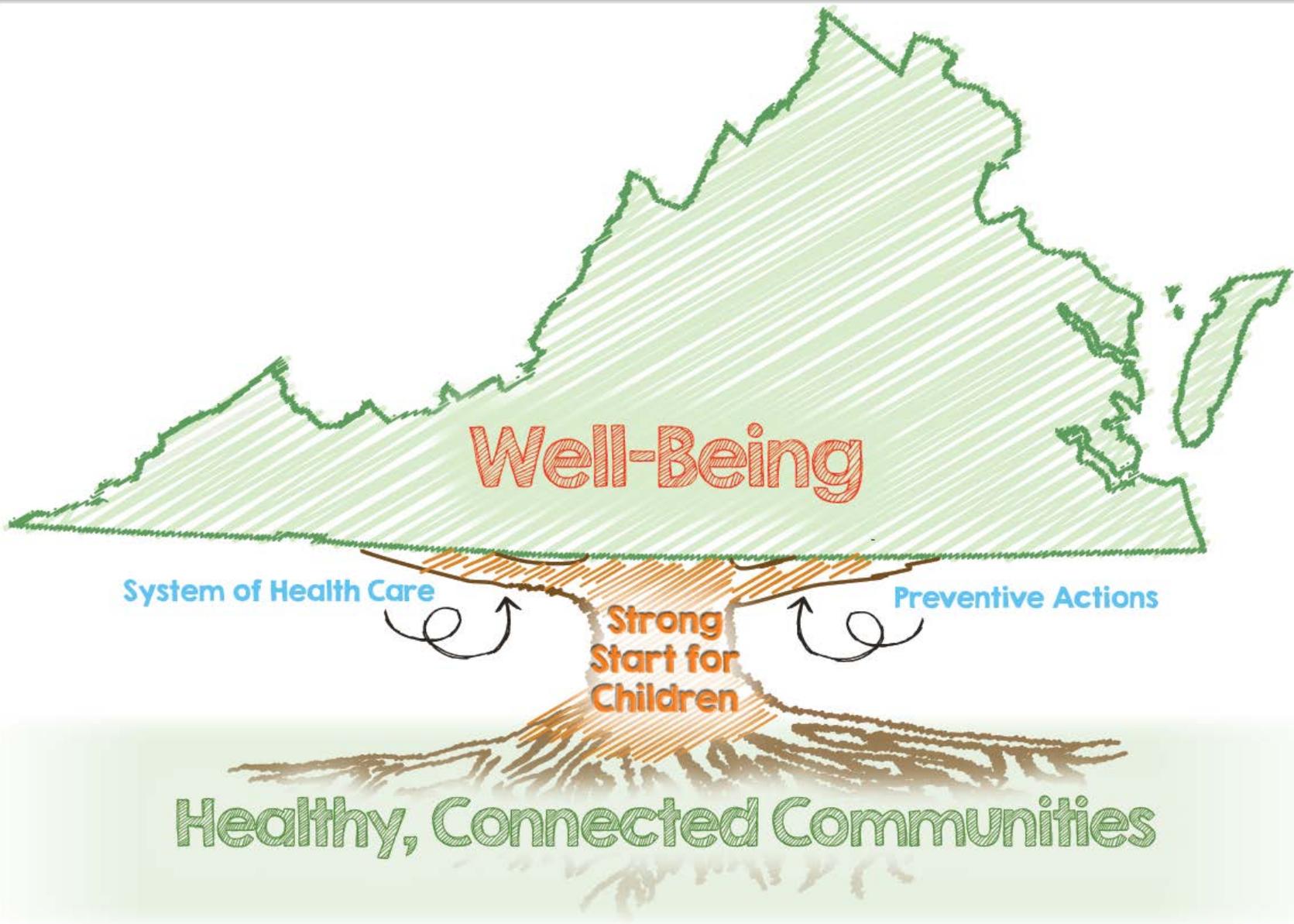
HEALTHY CONNECTED COMMUNITY

Data for Community Health



COMMUNITY HEALTH IMPROVEMENT PROCESS





Plan for Well Being Metrics

Percent of Adults Who Report Positive Well-Being

HEALTHY, CONNECTED COMMUNITIES

- H.S. Grads Enrolled in Higher Ed
- Cost-Burdened Households
- Consumer Opportunity Index
- Economic Opportunity Index
- Districts with Collaborative Improvement Processes

PREVENTIVE ACTIONS

- Adults Not Participating In Physical Activity
- Adults Who Are Overweight or Obese
- Households That Are Food Insecure
- Adults Using Tobacco
- Adults Vaccinated Against Influenza
- Adolescents Vaccinated Against HPV
- Adults Screened for Colorectal Cancer
- Percent of Adults With Adverse Childhood Experiences
- Disability-free Life Expectancy

STRONG START FOR CHILDREN

- Teen Pregnancy Rate
- Kindergarteners Not Meeting PALS-K Benchmark
- Third Graders Passing Reading SOL
- Infant Mortality Rate by Race

SYSTEMS OF HEALTH CARE

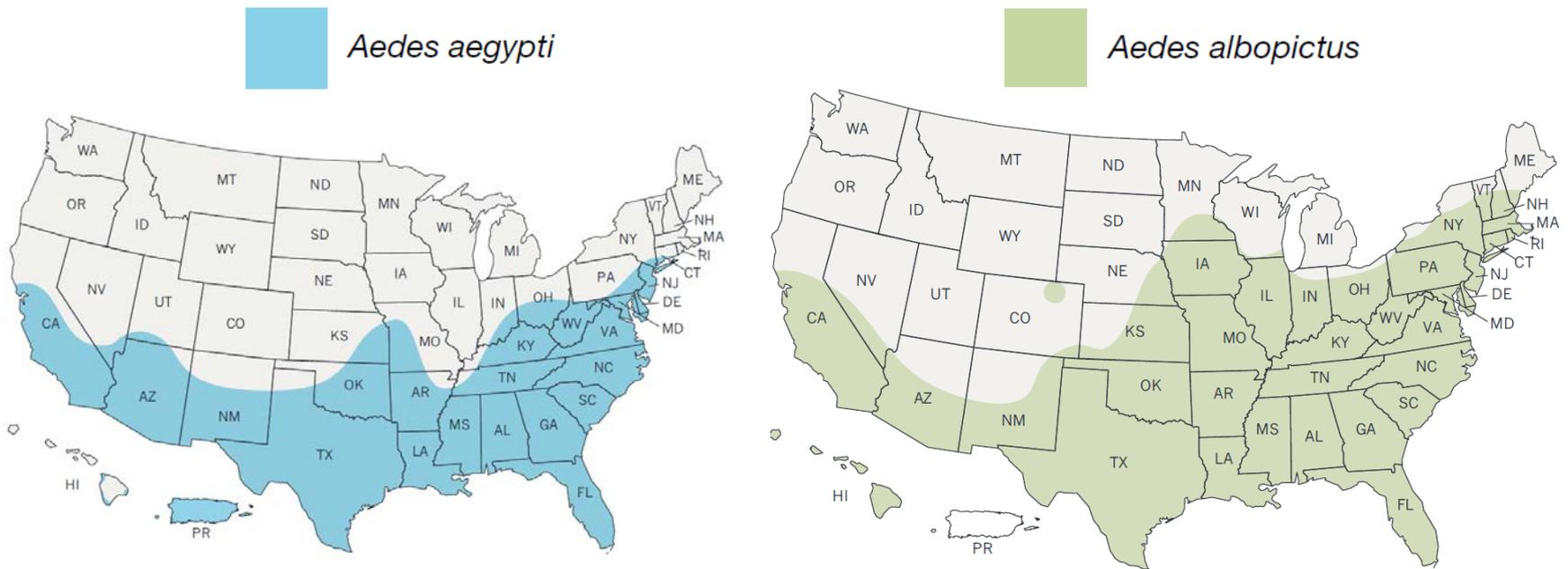
- Adults With A Regular Health-care Provider
- Avoidable Cardiovascular Disease Deaths
- Mental Health and Substance Abuse Hospitalizations
- Avoidable Hospital Stays
- Adults Whose Poor Health Kept Them from Usual Activities
- Providers With Electronic Health Records
- Health Districts With EHRs
- Entities Connected to the Health Information Exchange
- Hospitals Meeting State Goal for Prevention of C. difficile Infections

Zika Virus Disease

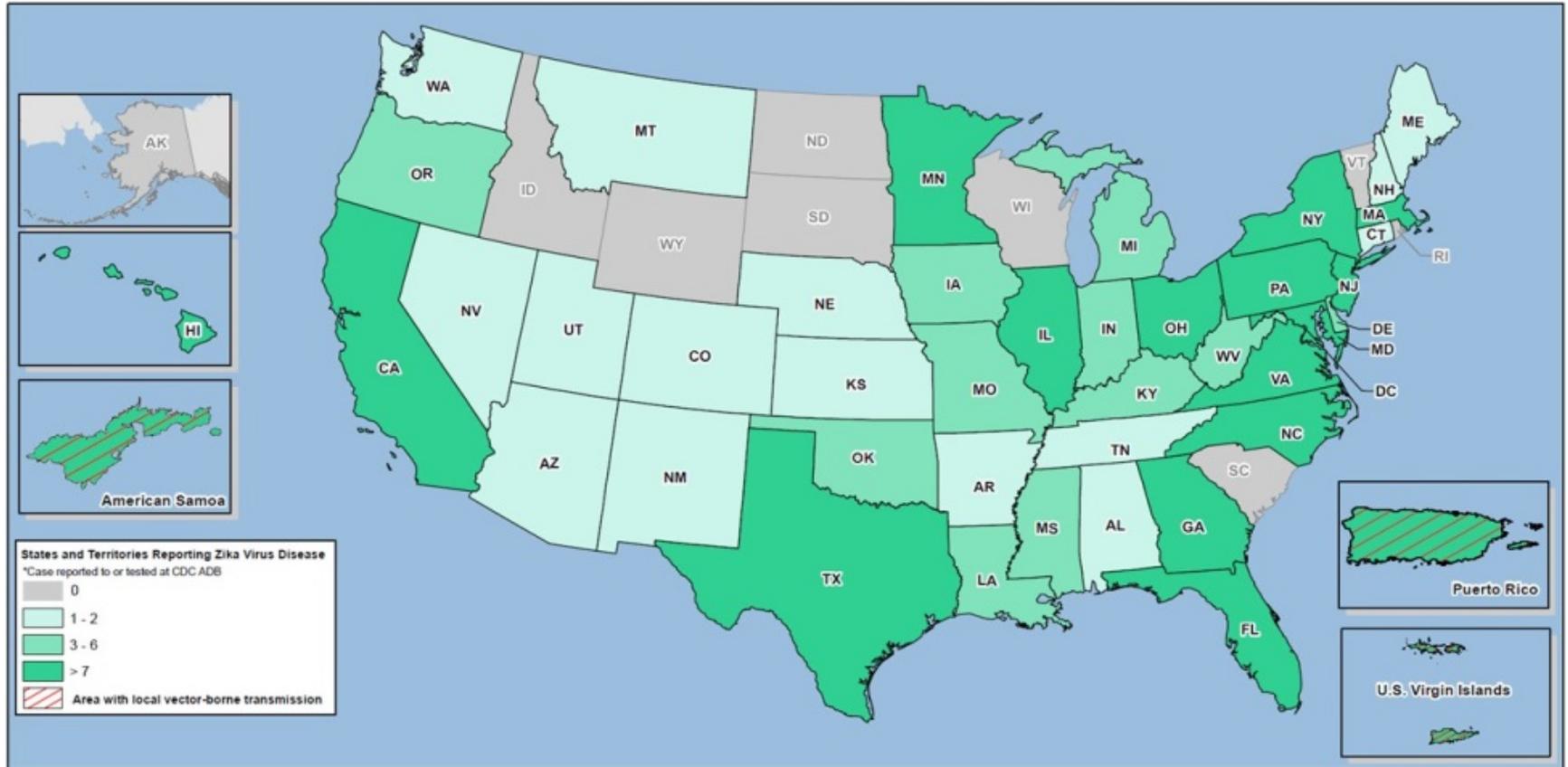
Zika Virus Disease – Basics

- Spread to people primarily through bite of infected ***Aedes*** mosquitoes
- Other modes of transmission: sexual, maternal-fetal
- Common symptoms: Fever, rash, joint pain and conjunctivitis
- Usually a mild illness, lasting several days to 1 week
- Most infected persons do not get sick
- Infection during pregnancy can cause a serious birth defect called microcephaly, and other severe fetal brain defects which have life-long impact.

Estimated range of *Aedes albopictus* and *Aedes aegypti* in the US, 2016



Zika Virus in the US, 2015-2016



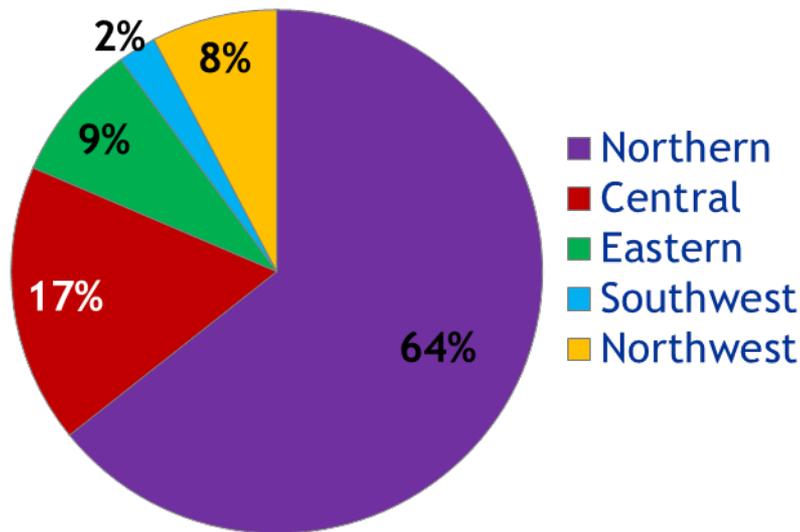
Virginia's Preparedness Efforts

- Established Virginia Zika Task Force
- Initiated human disease surveillance
- Facilitating laboratory testing
- Initiating mosquito surveillance
- Providing guidance to Virginians
- Providing guidance to clinicians

Testing Virginia Residents for Zika Virus

528 Virginia Residents Approved for Zika Testing between 1/29/2016 and 4/27/2016

Virginia Residents Approved for Testing by Region



Case Status	Num	%
Confirmed/Probable case	13	2
Not a case	364	69
Test results pending	151	29

Sex and Pregnancy Status	Num	%
Male	31	6
Female	497	94
Pregnant	469	94
Non-pregnant	28	6

US CDC Zika Pregnancy Registry

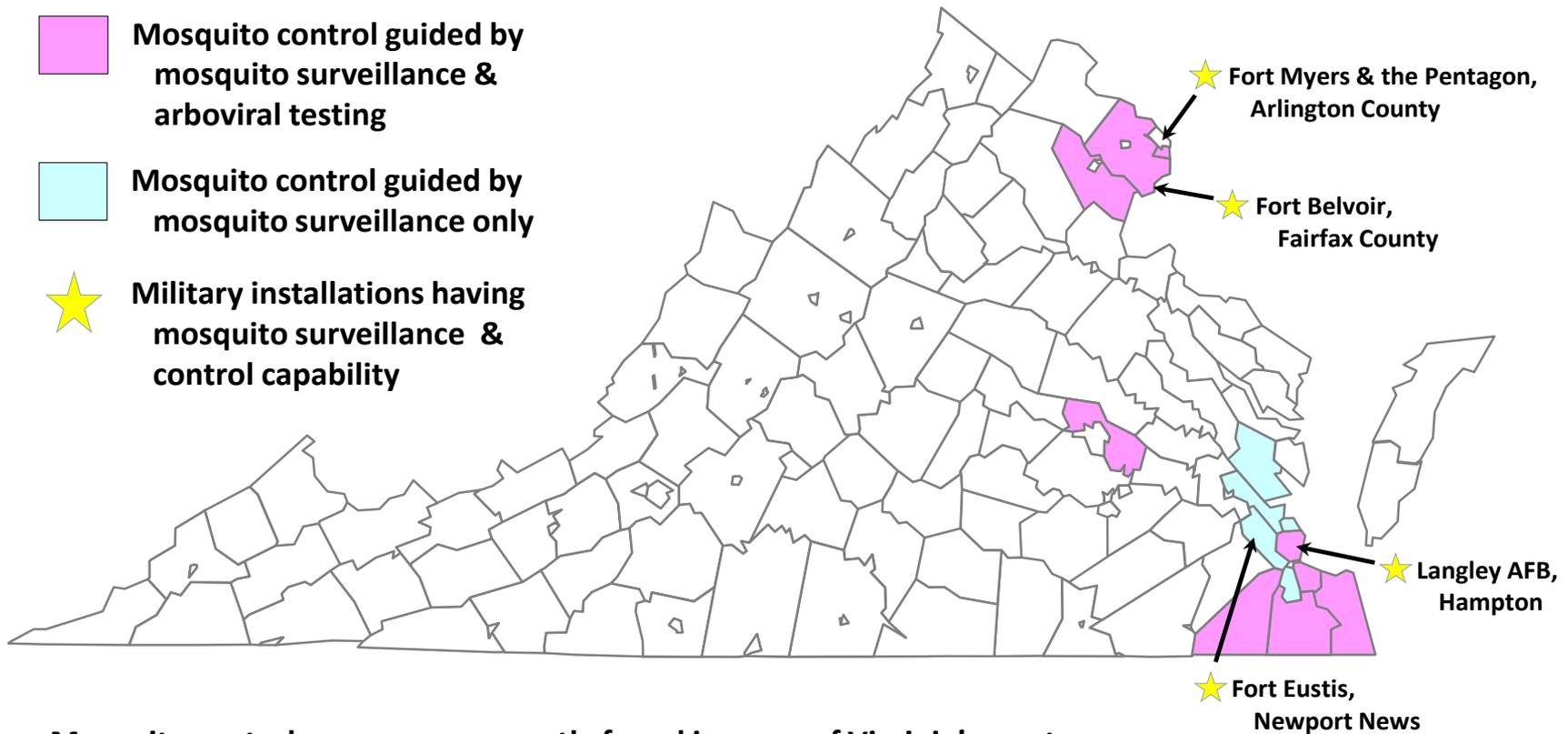
To improve understanding of Zika in:

- Pregnancy outcomes
- Congenital infections

Data collected voluntarily through the registry will be used to update recommendations for:

- Clinical care
- Planning for Services for pregnant women/families
- Prevention

Virginia Jurisdictions and Military Installations having Mosquito Control Capabilities



Mosquito control programs are mostly found in some of Virginia's most heavily populated jurisdictions.

Public Messaging/Communication



<http://www.vdh.virginia.gov/>

Zika Messaging Multimedia Approach

- Leave-Behind Printed Material
- Clinician Outreach
- 3 Animated Videos
- (English & Spanish)
- TV, Radio and Movie Theaters
- Airport Signage
- Social Media Campaign
- Zika Prevention Kits



Worried about mosquitoes?
Then it's time to
Tip, Toss and Cover!

TIP AND TOSS

ONCE A WEEK...

TIP CONTAINERS: Drain standing water from garbage cans, house gutters, downspout extenders, pool covers, coolers, toys, flower pots or any other containers where sprinklers or rain water has collected.

TOSS: Discard old tires, drums, bottles, cans, pots and pans, broken appliances and other items outside that aren't being used.

EMPTY AND SCRUB: birdbaths and pets' water bowls at least once or twice a week.

PROTECT: boats and vehicles from rain with tarps that don't accumulate water.

ONCE A MONTH...

MAINTAIN: Apply a larvicide to standing water that cannot be emptied or drained. Larvicides can be found at garden centers and hardware stores.

COVER



COVER YOUR SKIN WITH:

CLOTHING: Cover up when you're outside! Wear long, loose, and light-colored clothing, and shoes and socks.

REPELLENT: Apply mosquito repellent to bare skin and clothing. Always use repellents according to the label. Use mosquito netting to protect children younger than 2 months.

Stop mosquitoes from living and multiplying around your home or business.

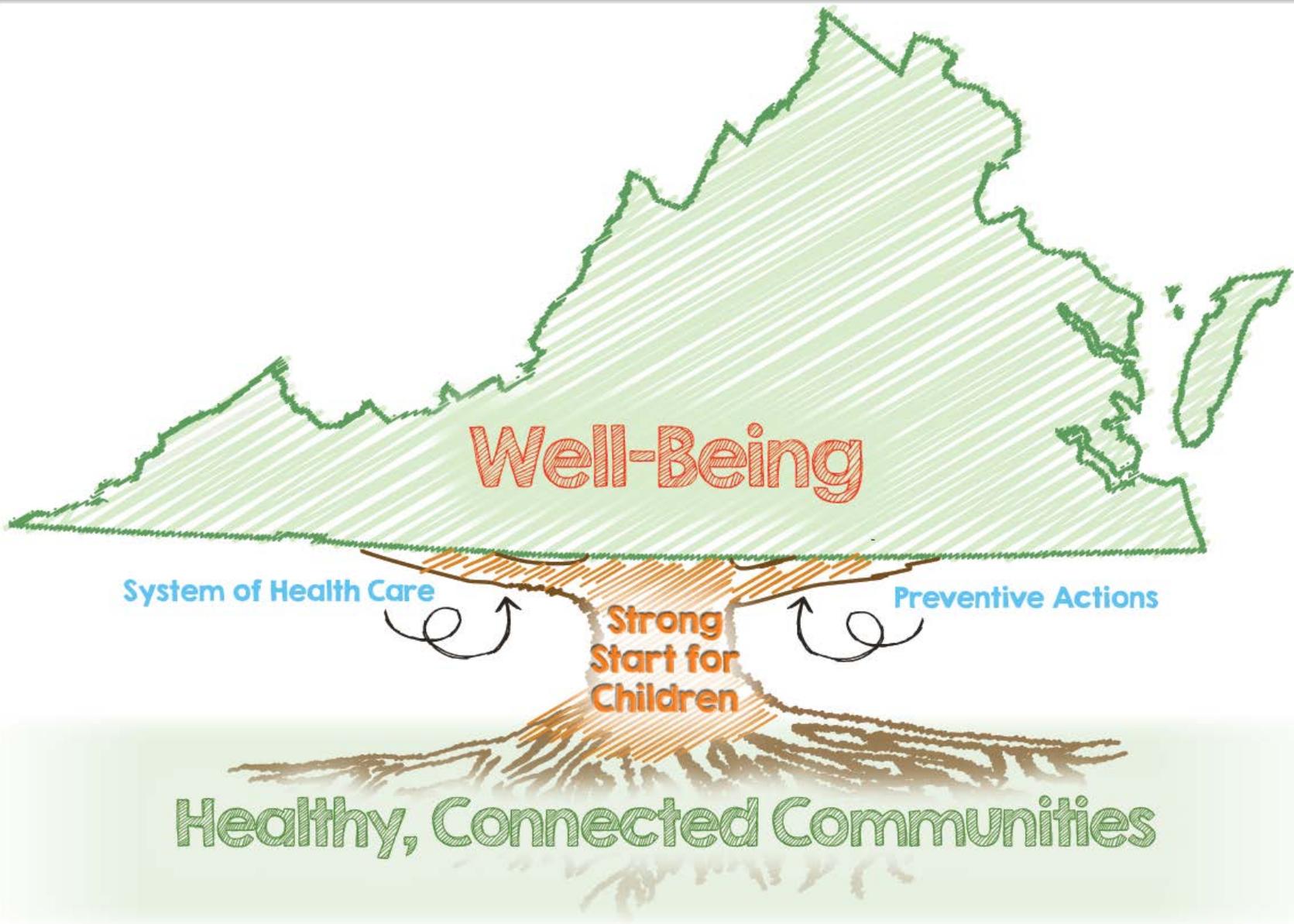
VDH VIRGINIA DEPARTMENT OF HEALTH
Promoting & Protecting the Health of All Virginians
www.vdh.virginia.gov

For more information contact your local health department.

Funding for this brochure was made possible (in part) by funding from the CDC. The views expressed herein do not necessarily reflect the official policies of the U.S. DHHS, nor does the mention of trade names, commercial practices, or organizations imply endorsement by the U.S. Government. Credit: Florida Department of Health

Zika Prevention Kits

- 10,000 kits to build awareness
- Distribution through local health departments
 - Information and disease prevention materials



Summary and Questions?