**VISION:** WELL-BEING FOR ALL VIRGINIANS

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Virginia’s Plan for Well-Being (The Plan) is a call to action for Virginians to create and sustain conditions that support health and well-being. Right now, in Virginia, many local communities are coming together to improve health. Communities, stakeholders, and partners can use this plan to build on work being done to assure clarity of effort and align scarce resources. The Plan lays out 13 priority goals that address issues significantly impacting the health and well-being of the people of Virginia. It provides a framework to guide the development of projects, programs, and policies to advance Virginians’ health. From these goals, communities can choose one or two that represent a priority to them and around which they can focus efforts in the short term. The strategies in The Plan have been shown to be promising or best practices. The Plan also identifies some of the key community partners needed to achieve results.

Virginia’s Plan for Well-Being is a companion plan to Virginia’s 2016 State Innovation Model Health Improvement Plan, which calls for Accountable Care Communities in Virginia to achieve the triple aim in health care: improving health care quality; improving the health of populations; and reducing the per capita cost of health care. The Virginia Center for Health Innovation and the Virginia Department of Health are committed to tracking the progress of Virginia’s health improvement and to annually report on specific measures identified in the two plans. Using population health data to evaluate our progress can help Virginians assess whether our systems and strategies are effective and can guide us to change course where needed.

Achieving population health improvement requires alignment, clarity and intentionality. Alignment includes coordination and collaboration of all sectors of the community: government, health care, education, businesses, community organizations including the faith community, and the public. Clarity refers to focused effort on issues that matter to people with corresponding measurable outcomes. Intentionality refers to designing our communities, policies and processes to specifically lead to improved outcomes in well-being, while avoiding unintended unhealthy outcomes. Virginians working together in alignment, with clarity and with a shared intention to improve the health of all Virginians provides the basis for success. Please join us in this effort - there is a role for everyone as we move Virginia toward becoming the healthiest state in the nation.

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VIRGINIANS LIVE LONGER, HEALTHIER

lives today than ever before. Medical care is only part of the reason. Health begins where Virginians live, work, and play. Virginia’s economy paves the way for its communities to create conditions for people to be healthy. Disinfecting drinking water, vaccinating people, controlling mosquitoes and rodents, and tracking contagious illnesses keep once common diseases like measles and polio at bay. Passing laws to make transportation safer and to protect workers reduces injuries.

The definition of well-being is “a state characterized by health, happiness, and prosperity”. It is valuable as a population outcome measure because it reflects how Virginians perceive their life is going. Well-being is dependent on having good physical and emotional health. Social circumstances, financial resources, and community factors also play important roles.

The opportunity for health begins with our families, neighborhoods, schools and jobs. There are striking differences in health within and between communities in Virginia. Uncovering the root causes of health inequities in Virginia’s neighborhoods and working together to improve the conditions needed for people to be healthy will improve well-being for all Virginians.

This begins with the community coming together to review local and state level data that reflect the health of the community. Examining trends and variation among subsets of the population can assist the state and communities in analyzing health outcomes and identifying priority issues to address.

Virginia’s Plan for Well-Being lays out the foundation for giving everyone a chance to live a healthy life: (1) Factoring health into policy decisions related to education, employment, housing, transportation, land use, economic development, and public safety; (2) Investing in the health, education, and development of Virginia’s children; (3) Promoting a culture of health through preventive actions; and (4) Creating a connected system of health care. The plan highlights specific goals and strategies on which communities can focus so the state can make measurable health improvement by 2020. Virginia’s Plan for Well-Being is a call to action for all Virginians to work together to make Virginia the healthiest state in the nation. Improving well-being can lower health care costs and increase productivity, ultimately enhancing Virginia’s competitiveness and resiliency.

Measure of Success

Percent of adults in Virginia who report positive well-being increases (metric under development)
VISION

By 2020, the percent of adults who report positive well-being increases (metric under development)

AIM 1 » Healthy, Connected Communities

Goal 1.1: VIRGINIA’S FAMILIES MAINTAIN ECONOMIC STABILITY

By 2020, the percent of Virginia high school graduates enrolled in an institute of higher education within 16 months after graduation increases from 70.9% to 75.0%

By 2020, the percent of cost-burdened households in Virginia (more than 30% of monthly income spent on housing costs) decreases from 31.4% to 29.0%

By 2020, the Consumer Opportunity Profile score in Virginia increases from 81.8% to 83.7%

By 2020, the Economic Opportunity Profile Score in Virginia increases from 70.7% to 73.7%

Goal 1.2: VIRGINIA’S COMMUNITIES COLLABORATE TO IMPROVE THE POPULATION’S HEALTH

By 2020, the percent of Virginia health planning districts that have established an on-going collaborative community health planning process increases from 43% to 100%

AIM 2 » Strong Start for Children

Goal 2.1: VIRGINIANS PLAN THEIR PREGNANCIES

By 2020, Virginia’s teen pregnancy rate decreases from 27.9 to 25.1 pregnancies per 1,000 females ages 15 to 19 years

Goal 2.2: VIRGINIA’S CHILDREN ARE PREPARED TO SUCCEED IN KINDERGARTEN

By 2020, the percent of children in Virginia who do not meet the PALS K benchmarks in the fall of kindergarten and require literacy interventions decreases from 12.7% to 12.2%

By 2020, the percent of third graders in Virginia who pass the Standards of Learning third grade reading assessment increases from 69% to 80%

Goal 2.3: THE RACIAL DISPARITY IN VIRGINIA’S INFANT MORTALITY RATE IS ELIMINATED

By 2020, Virginia’s Black Infant Mortality Rate equals the White Infant Mortality Rate

AIM 3 » Preventive Actions

Goal 3.1: VIRGINIANS FOLLOW A HEALTHY DIET AND LIVE ACTIVELY

By 2020, the percent of Virginia adults who did not participate in any physical activity during the past 30 days decreases from 23.5% to 20.0%

By 2020, the percent of Virginia adults who are overweight or obese decreases from 64.7% to 63.0%

By 2020, the percent of Virginia households that are food insecure for some part of the year decreases from 11.9% to 10.0%

Goal 3.2: VIRGINIA PREVENTS NICOTINE DEPENDENCY

By 2020, the percent of adults aged 18 years and older in Virginia who report using tobacco decreases from 21.9% to 12.0%
Goal 3.3: Virginians are protected against vaccine-preventable diseases

By 2020, the percent of adults in Virginia who receive an annual influenza vaccine increases from 48.2% to 70%

By 2020, the percent of girls aged 13-17 in Virginia who receive three doses of HPV vaccine increases from 35.9% to 80%

By 2020, the percent of boys aged 13-17 in Virginia who receive three doses of HPV vaccine increases from 22.5% to 80%

Goal 3.4: Cancers are prevented or diagnosed at the earliest stage possible

By 2020, the percent of adults aged 50 to 75 years in Virginia who receive colorectal cancer screening increases from 69.1% to 85.0%

Goal 3.5: Virginians have life-long wellness

By 2020, the average years of disability-free life expectancy for Virginians increases from 66.1 years to 67.3 years

By 2020, the percent of adults in Virginia who report adverse childhood experiences decreases (metric under development)

Goal 4: System of Health Care

Goal 4.1: Virginia has a strong primary care system linked to behavioral health care, oral health care, and community support systems

By 2020, the percent of adults in Virginia who have a regular health care provider increases from 69.3% to 85.0%

Goal 4.2: Virginia’s health IT system connects people, services, and information to support optimal health outcomes

By 2020, the percent of health-care providers in Virginia who have implemented a certified electronic health record increases from 70.6% to 90.0%

By 2020, the number of entities in Virginia connected through Connect Virginia HIE Inc., the electronic health information exchange, and the national e-Health Exchange increases from 3,800 to 7,600

By 2020, the number of Virginia’s local health districts that have electronic health records and connect to community providers through Connect Virginia increases from 0 to 35

Goal 4.3: Health care-associated infections are prevented and controlled in Virginia

By 2020, the percentage of hospitals in Virginia meeting the state goal for prevention of hospital-onset Clostridium difficile infections increases from 38.5% to 100%

By 2020, the rate of avoidable hospital stays for ambulatory care sensitive conditions in Virginia decreases from 1,294 to 1,100 per 100,000 persons

By 2020, the rate of avoidable deaths from heart disease, stroke, or hypertensive disease in Virginia decreases from 50 to 40 per 100,000 persons

By 2020, the rate of adult mental health and substance use disorder hospitalizations in Virginia decreases from 668.5 to 635.1 per 100,000 adults

By 2020, the percent of adults in Virginia who report having one or more days of poor health that kept them from doing their usual activities decreases from 19.5% to 18.0%
WHERE VIRGINIANS LIVE AFFECTS their health. Feeling safe, supported, and connected to family, neighborhood, and the community is critical for well-being. Place matters: the conditions in which people live, work, and play shape their health. For example, having safe, clean parks provides Virginians with recreational opportunities. This supports active living, which results in improved physical and emotional health. Conditions that foster well-being include:

- Safe, walkable neighborhoods
- Accessible public transportation
- Access to health care
- Employment opportunities with safe working conditions
- Quality educational systems
- Spaces for social gatherings and physical activity
- Clean air and water

Improving environmental and social conditions at the neighborhood level provides greater opportunity for all Virginians to be healthy. Communities can improve health by considering implications to health when developing policies and systems related to education, employment, housing, transportation, land use, economic development, and public safety.

The Virginia Department of Health has developed a Health Opportunity Index (HOI) to help communities understand the factors that lead to health so they can work to improve health outcomes for everyone. The HOI is a composite measure of the “social determinants of health”, factors that relate to a community’s well-being and the health status of its population. It is comprised of 13 indices in four categories:

**Environment**: (1) Air quality; (2) Population density; (3) Population churning; (4) Walkability

**Consumer Opportunity**: (1) Affordability; (2) Education; (3) Food accessibility; (4) Material deprivation

**Economic Opportunity**: (1) Employment; (2) Income inequality; (3) Job participation

**Wellness**: (1) Segregation; (2) Access to care

The HOI is calibrated with life expectancy, disability-adjusted life expectancy, and low birth weight measures, and is strongly predictive of key health outcomes. The HOI provides communities with a tool to identify areas and populations that are most vulnerable, giving Virginia an opportunity to develop strategic, targeted approaches to improve health and well-being.
Foundational Goals for Creating Healthy, Connected Communities

- Virginians receive a quality education
- Virginians complete job training or college after high school
- Virginians live in housing they can afford

**Virginia’s families maintain economic stability**

- Virginians are socially engaged
- Virginians have access to clean air and water
- Virginians have access to safe food

- Virginians are prepared to respond to manmade and natural disasters
- Virginians have access to quality emergency medical services
- Virginians are protected from fires
- Virginians are protected from crime
- Virginia’s public transportation systems provide access to and from geographically isolated areas
- Virginia businesses partner with the community to address environmental and social drivers of workforce health

**Virginia’s communities collaborate to improve the population’s health**

During 2016-2020, Virginia is focusing attention on these foundational goals:

1.1 Virginian’s families maintain economic stability
1.2 Virginia’s communities collaborate to improve the population’s health

*Health Opportunity Index (HOI) – The HOI is a composite measure comprised of 13 indices that reflect a broad array of social determinants of health*
GOAL 1.1: VIRGINIA’S FAMILIES MAINTAIN ECONOMIC STABILITY

Health and poverty are inextricably linked; ill health not only affects the poor disproportionately, it is also associated with lower income. Virginia is perennially one of the wealthiest states in the nation. Unfortunately, a wealth gap prevents some Virginians from experiencing equitable opportunities for optimal health and longevity. Reducing poverty and maintaining economic stability are vital to keeping all Virginians well. An education that prepares Virginians for today’s job market provides increased opportunity for employment, which in turn improves access to stable housing, healthy food, transportation, and health care. Strategic investments in the physical and social infrastructure as well as investments in educational resources are important for sustained economic stability.

Strategies

- Provide alternative pathways to graduation and post-secondary training for disconnected youth and those with special needs
- Develop and use early warning systems to prevent failure and help at-risk students
- Develop school policies to assess and address physical, social, and environmental health barriers that impede learning
- Expand training and work-linked learning opportunities for youth
- Support opportunities for mid-career retraining
- Build affordable housing, and rehabilitate existing affordable housing to accommodate low-income families

Key Community Partners

- Community Organizations
- Community Planners
- Economic Development Agencies
- Educators
- Elected Officials
- Employers
- Families
- Justice System
**Measures of Success**

- **High School Graduates Enrolled in Higher Education**
  - 2013: 70.9%
  - 2020 Goal: 75.0%

- **Cost-Burdened Households**
  - 2013: 31.4%
  - 2020 Goal: 29.0%

- **Consumer Opportunity Profile Score**
  - 2013: 81.8
  - 2020 Goal: 83.7

- **Economic Opportunity Profile Score**
  - 2013: 70.7
  - 2020 Goal: 73.7
**Goal 1.2: VIRGINIA’S COMMUNITIES COLLABORATE TO IMPROVE THE POPULATION’S HEALTH**

Adopting a collaborative community approach to health assessment and planning supports population-level health improvement. Both state and community-level assessments are valuable to identify opportunities to achieve and maintain well-being in the Commonwealth. This process involves bringing together people from many sectors of the community to review data; identify priorities; develop goals and measurable objectives; and recommend evidence-based policies, programs, and actions for the community to pursue. The assessments include social, economic, and environmental data, such as the number of mothers who did not graduate from high school, in addition to health outcome data, like the number of people who have lung cancer.

State and community health improvement plans can be a catalyst for empowering community action. They can be shared with elected officials, the health care community, governmental and community-based agencies, and the public. The information can foster the allocation of resources to areas that will maximize benefits to the collective health of the community.

**Strategies**

- Establish collaborative health assessment and strategic health improvement planning processes throughout the Commonwealth that include public health, health care systems, and community partners
- Align health system community benefit programs with community health improvement plans
- Enhance data systems and public health information technology to collect, manage, track, analyze, and report state and county-level data for use in health assessments

**Key Community Partners**

- Community Organizations
- Educators
- Elected Officials
- Employers
- Families
- Health-Care Providers
- Hospital Systems
- Local Governments
- Public
- Public Health

**AIM 1: HEALTHY, CONNECTED COMMUNITIES**

**2020 FOCUS GOALS**

- Districts with Collaborative Community Health Improvement Processes
  - 2015: 43%
  - 2020 Goal: 100%
A child’s health is affected by biological influences, including nutrition, illness, and each parent’s health, as well as environmental influences, including education and quality health and social services. Compared to children without chronic health problems, children with chronic health problems have a greater risk of having poorer health outcomes and lower job status as adults. Health-related factors affect school performance, and in turn academic success is associated with health outcomes during childhood and later in adulthood. Investing in programs that lead to improved health for Virginia’s children benefits everyone and reduces long-term costs to the Commonwealth.

**Foundational Goals for Giving Children a Strong Start**

- Virginians plan their pregnancies
- Virginians are as healthy as possible before becoming pregnant
- Pregnant women in Virginia receive recommended prenatal care services
- Virginia mothers breastfeed
- Virginia parents practice positive parenting
- Virginia fathers are engaged in family planning, health, parenting, and child development-focused activities
- Virginia infants and children are not exposed to secondhand smoke
- **Virginia’s children are prepared to succeed in kindergarten**
- Virginia’s adolescents choose not to engage in behaviors that put their well-being at risk
- The racial disparity in Virginia’s infant mortality rate is eliminated

**During 2016-2020, Virginia is focusing attention on these foundational goals:**

2.1 Virginians plan their pregnancies
2.2 Virginia’s children are prepared to succeed in kindergarten
2.3 The racial disparity in Virginia’s infant mortality rate is eliminated
**Goal 2.1: VIRGINIANS PLAN THEIR PREGNANCIES**

Comprehensive family planning and preconception health lead to improved birth outcomes, which are associated with better health and cognition as children mature. Family planning services include providing education and contraception. These services help families have children when they are financially, emotionally, and physically ready. Publicly-supported family planning services prevent an estimated 1.3 million unintended pregnancies a year in the United States. The trend toward having smaller families and waiting at least 24 months between pregnancies has contributed to better health of infants and children. Preconception health services for females and males include health screenings, counseling, and clinical services that enable them to become as healthy as possible before pregnancy.

**Strategies**

- Increase access to quality family planning services for all women of child-bearing age
- Expand evidence-based programs that promote healthy relationships
- Educate women and men about the effectiveness of contraceptive methods and increase access to the most effective methods
- Expand access to and use of preconception health services

**Key Community Partners**

- Community Organizations
- Faith-based Communities
- Families
- Federally Qualified Health Centers
- Health-Care Providers
- Health Insurers
- Public Health
- Schools
- Social Services
**Measure of Success**

Teen Pregnancy Rate

- **2013:** 27.9
- **2020 Goal:** 25.1

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<tr>
<th>Year</th>
<th>Teen Pregnancies per 1,000 15-19 Year Old Females</th>
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<tbody>
<tr>
<td>2013</td>
<td>27.9</td>
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<tr>
<td>2020</td>
<td>25.1</td>
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<tr>
<th>Year</th>
<th>Kindergartners Not Meeting PALS-K Benchmark</th>
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<tr>
<td>2014</td>
<td>12.7%</td>
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<tr>
<td>2020</td>
<td>12.2%</td>
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<tr>
<th>Year</th>
<th>Third Graders Passing Reading SOL Measure of Success</th>
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<tr>
<td>2014</td>
<td>69%</td>
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<tr>
<td>2020</td>
<td>80%</td>
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Goal 2.2: VIRGINIA’S CHILDREN ARE PREPARED TO SUCCEED IN KINDERGARTEN

Succeeding or failing in school affects a child’s well-being, self-esteem, and motivation. Being developmentally ready to learn and participate in classroom activities not only sets the stage for the kindergarten year but can have lifelong influence on well-being. According to a report by the University of Virginia’s Curry School of Education, one out of three children in Virginia is not prepared to succeed in literacy, math, self-regulation, and/or social skills at the beginning of kindergarten. The report finds that “children who enter kindergarten behind their peers rarely catch up; instead, the achievement gap widens over time.”

Investing in programs to prepare children to succeed in school prevents them from falling behind and dropping out of high school.

Strategies

- Increase developmental screening for childhood milestones and delays
- Increase enrollment of three to five year-old children in early childhood education programs that include quality educational components that address literacy, numeracy, cognitive development, socio-emotional development, and motor skills
- Increase the number of providers and educators who screen for adverse childhood events (ACEs) and are trained in using a trauma-informed approach to care
- Expand programs that help families affected by ACEs, toxic stress, domestic violence, mental illness, and substance abuse create safe, stable, and nurturing environments
- Expand programs that teach positive parenting and help parents fully engage with their children in productive ways
- Increase opportunities for fathers to be engaged in programs and services for their children

Key Community Partners

Businesses
Childcare Providers
Community Organizations
Educators
Families
Health-Care Providers
Public Health
Social Services
Measures of Success

- Kindergartners Not Meeting PALS-K Benchmark
  - 2014/15: 12.7%
  - 2020 Goal: 12.2%

- Third Graders Passing Reading SOL
  - 2014: 69.0%
  - 2020 Goal: 80.0%
**AIM 2: STRONG START FOR CHILDREN**

**2020 FOCUS GOALS**

**Goal 2.3: THE RACIAL DISPARITY IN VIRGINIA’S INFANT MORTALITY RATE IS ELIMINATED**

The Commonwealth has made significant progress in helping its infants thrive; however, some communities have worse outcomes than others. If the rate at which black infants and white infants died were equal, Virginia would have the lowest infant mortality rate in the country. Giving everyone a chance to live a healthy life benefits not only those currently disadvantaged but the whole community. Closing this gap requires addressing the root causes of disparities throughout life. To achieve equity, all sectors of the community—from policy makers to grassroots community organizations to community members—must work together.

**Strategies**

- Form neighborhood collaboratives co-led by community members in under-resourced communities to identify obstacles and develop plans to address the root causes of health inequities
- Increase the number of providers who screen postpartum women for depression and provide or refer for treatment
- Eliminate early elective deliveries
- Expand outreach to pregnant women and increase the number of group prenatal care classes
- Implement policies that support women and their families in breastfeeding for at least six months
- Expand home visiting and family support programs

**Key Community Partners**

- Community Organizations
- Educators
- Elected Officials
- Families
- Federally Qualified Health Centers
- Health-Care Providers
- Health Insurers
- Hospital Association
- Medical Societies
- Mental Health Providers
- Public Health
- Social Services
Measure of Success

White and Black Infant Mortality Rates

Infant Deaths Per 1,000 Live Births

- White
- Black

2013: 5.2
2020 Goal: 5.2

12.2
A CULTURE OF HEALTH AND WELLNESS is built on preventive actions. Virginia can substantially decrease the burden of disease and reduce health care spending by creating conditions that lead to health. Communities, health care systems, and individuals all have a role to play. For example, reversing Virginia’s high prevalence of obesity will require (1) community design and policies that promote healthy eating and active living; (2) clinical interventions and education; and (3) individual behavior modification.

Policy makers can create the conditions that support the healthy choice becoming the easy choice. Fluoridating drinking water, developing walkable communities, and prohibiting smoking in public buildings are actions that prevent disease.

Clinical interventions that promote health include vaccination, cancer screenings, treatment for high blood pressure, dental cleanings, and early identification and treatment of persons addicted to substances. According to the Centers for Disease Control and Prevention (CDC), Americans receive preventive health services “at about half the recommended rate”.10 This results in complex, advanced disease that is more costly to treat.

Personal behaviors that prevent disease include not using tobacco; eating appropriately-sized portions; daily dental flossing; practicing safe sex; exercising regularly; and taking medicines as prescribed.

Foundational Goals for Preventive Actions

- **Virginians follow a healthy diet and live actively**
- **Virginia prevents nicotine dependency**
- **Virginia conducts comprehensive surveillance and investigation of diseases**
- **Virginians are protected against vaccine-preventable diseases**
- **Virginians are free from sexually transmitted infections**
- **Virginia prevents and controls animal diseases from spreading to people (for example, rabies and bird flu)**
During 2016-2020, Virginia is focusing attention on these foundational goals:

3.1 Virginians follow a healthy diet and live actively
3.2 Virginia prevents nicotine dependency
3.3 Virginians are protected against vaccine-preventable diseases
3.4 In Virginia, cancers are prevented or diagnosed at the earliest stage possible
3.5 Virginians have lifelong wellness

In Virginia, injuries are prevented
Virginians have good oral health
Virginians have access to, can afford, and receive preventive clinical services

In Virginia, cancers are prevented or diagnosed at the earliest stage possible
Virginians have lifelong wellness
**AIM 3: PREVENTIVE ACTIONS**

**2020 FOCUS GOALS**

**Goal 3.1: VIRGINIANS FOLLOW A HEALTHY DIET AND LIVE ACTIVELY**

Following a healthy diet and living actively have long-term health benefits. Maintaining a healthy weight is associated with improved quality of life and reduced risk of cardiovascular disease, diabetes, dementia, cancer, liver disease, and arthritis. Obesity results from a combination of factors: genetics; behavior; education; access to nutritious food; an environment that supports active living; and food marketing and promotion.11

A nutritious diet includes balancing the number of calories consumed with the number of calories the body uses. It is necessary for optimal growth and development of children.12 Healthy eating is associated with improved thinking, memory, and mood among school children.13 The inability to afford enough food for an active, healthy life is associated with poor health outcomes among children, adults, and the elderly.14

Living an active lifestyle supports wellness, improves mood, and reduces chronic disease. Among children, it alleviates depression, decreases body fat, creates stronger bones, and is even associated with better grades in school.15 Among older adults, physical activity lowers the risk of falls, a leading cause of injury.

Factors that positively contribute to physical activity levels include higher income, enjoyment of exercise, and social support from peers and family. Factors that discourage adequate physical activity include a low income, lack of time, rural residency, and obesity.

Policies can be created and neighborhoods can be designed to support healthy eating and active living. People make decisions based on their environment; for example, a person may choose not to take a walk because there are no sidewalks. Creating opportunities in the community, child care, school, and workplace settings can make it easier to engage in physical activity and eat a healthy diet.

**Key Community Partners**

- Businesses
- Childcare Providers
- Community Organizations
- Community Planners
- Economic Development Agencies
- Educators
- Farmers
- Families
- Health-Care Providers
- Public Health
Strategies

- Integrate health planning into local and regional comprehensive planning
- Adopt community designs that support active living, including concentrated mixed use development and bicycle- and pedestrian-friendly communities
- Expand opportunities during and after school for children to get healthy meals and the recommended amount of daily physical activity
- Create parks, recreation facilities or open space in all neighborhoods
- Increase access to healthy and affordable foods in all neighborhoods
- Implement organizational and programmatic nutrition standards and policies
- Expand programs and services to eliminate childhood hunger
- Help people recognize and make healthy food and beverage choices
- Increase the number of evidence-based employee wellness programs
Measures of Success

- **Adults Not Participating in Physical Activity**
  - 2014: 23.5%
  - 2020 Goal: 20.0%

- **Adults Who Are Overweight or Obese**
  - 2014: 64.7%
  - 2020 Goal: 63.0%

- **Households That Are Food Insecure**
  - 2013: 11.9%
  - 2020 Goal: 10.0%
Goal 3.2: VIRGINIA PREVENTS NICOTINE DEPENDENCY

According to the CDC, “tobacco use is the single most preventable cause of death and disease in the United States.” The Campaign for Tobacco Free Kids reports that health care costs in Virginia directly caused by smoking are $3.11 billion a year. Smoking is associated with heart disease, stroke, chronic lung disease, diabetes, bone disease, and many types of cancer. Tobacco accounts for 30% of all cancer deaths. Secondhand smoke causes heart disease, stroke, and lung cancer. It affects the health of infants and children by increasing the risk for asthma attacks, respiratory and ear infections, and Sudden Infant Death Syndrome.

Strategies

- Establish smoke-free policies and social norms
- Promote tobacco cessation and support tobacco users in quitting
- Prevent initiation of tobacco use

Key Community Partners

- Academic Partners
- Businesses
- Elected Officials
- Faith-based Communities
- Health-Care Providers
- Health Insurers
- Public Health
- School Districts

Measure of Success

- Adults Using Tobacco
  - 2014: 21.9%
  - 2020 Goal: 12.0%
**Goal 3.3: VIRGINIANS ARE PROTECTED AGAINST VACCINE-PREVENTABLE DISEASES**

Virginians who receive their recommended vaccines protect themselves from illness and protect others by decreasing the spread of disease. Virginia benefits from high childhood immunization rates. However, in two other areas, it lags behind. While the percent of adults receiving an annual flu vaccine has increased, it is still below the national goal. The area of most concern, however, is a low rate of adolescent vaccinations that prevent meningococcal meningitis and cancers caused by the Human Papillomavirus (HPV).

**Strategies**

- Use patient registries to identify patients due for vaccination and send them reminders
- Evaluate data from the Vaccines for Children program and target outreach to providers who have the opportunity to improve vaccination rates
- Evaluate data from the Virginia Immunization Information System to assess immunization coverage and develop targeted interventions to address gaps
- Educate Virginians about the effectiveness of HPV vaccination in preventing HPV-associated cancers
- Increase the number of adolescents who receive well visits in patient-centered medical homes
- Establish policies to ensure healthcare providers receive annual influenza vaccine

**Key Community Partners**
- Families
- Federally Qualified Health Centers
- Health-Care Providers
- Hospital Systems
- Health Insurers
- Medical Societies
- Public Health
Measures of Success

Adults Vaccinated Against Influenza

- 2014-2015: 48.2%
- 2020 Goal: 70.0%

Adolescents Vaccinated Against HPV

- Girls: 35.9% in 2014, 80.0% in 2020 Goal
- Boys: 22.5% in 2014, 80.0% in 2020 Goal
Goal 3.4: CANCERS ARE PREVENTED OR DIAGNOSED AT THE EARLIEST STAGE POSSIBLE

Cancer is the leading cause of death for Virginians. It is caused by changes to the genes that lead to the uncontrolled growth of specific cells in the body. There are many types of cancer, and the risks associated with each type vary. Preventive actions can keep some cancers from developing. These include not using tobacco, minimizing alcohol consumption, and vaccination against HPV and Hepatitis B. In some cases, when cancer does form, it can be identified early through evidence-based screenings, resulting in better treatment options and outcomes.

Strategies

- Increase tobacco prevention and cessation programs
- Increase percent of medical practices that implement evidence-based client reminder systems to increase recommended cancer screenings for patients
- Increase the number of providers, lay health advisors, and volunteers trained in health literacy to provide one-on-one education in medical, community, worksite, and household settings to support people in seeking recommended cancer screenings
- Implement evidence-based strategies to reduce structural barriers to cancer screenings
- Implement provider assessment and feedback interventions to increase cancer screenings

Key Community Partners
Community Organizations
Employers
Families
Federally Qualified Health Centers
Health Care Providers
Health Insurers
Hospital Systems
Lay Health Workers
Medical Societies
Public Health
Measure of Success

**Adults Screened for Colorectal Cancer**

- **2014**: 69.1%
- **2020 Goal**: 85.0%
Goal 3.5: VIRGINIANS HAVE LIFE-LONG WELLNESS

Nearly one out of every eight Virginians today is 65 or older. In two decades, almost one in every five will be. Preventive actions and support systems can result in people living in their own home and community safely, independently, and comfortably, regardless of age, income, or ability level.

Strategies

- Encourage construction of safe, congregate and retirement housing for the aging population
- Increase access to internet usage for aging Virginians
- Increase the number of fitness and physical therapy facilities that promote senior fitness
- Develop a statewide senior falls prevention program
- Implement community-wide value-neutral programs to support Virginians in planning in advance for future healthcare choices

Key Community Partners

- Academic Partners
- Adult Daycare Providers
- Area Agencies on Aging
- Faith-based Communities
- Businesses
- Families
- Health-Care Providers
- Hospital Systems
- Nursing Homes
- Public Health
- Senior Centers
Measure of Success

<table>
<thead>
<tr>
<th>Measure</th>
<th>2014</th>
<th>2020 Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tobacco Adult Using Tobacco</td>
<td>21.9%</td>
<td>12%</td>
</tr>
<tr>
<td>Tobacco Adolescents Vaccinated Against HPV</td>
<td>48.2%</td>
<td>70%</td>
</tr>
<tr>
<td>Flu Vaccine</td>
<td>21.9%</td>
<td>80%</td>
</tr>
<tr>
<td>CRC Vaccinated</td>
<td>20.0%</td>
<td>67%</td>
</tr>
<tr>
<td>HPV Vaccinated</td>
<td>22.5%</td>
<td>80%</td>
</tr>
<tr>
<td>Adult Vaccinated Against Influenza</td>
<td>69.1%</td>
<td>85%</td>
</tr>
<tr>
<td>Adult Screened for Colorectal Cancer</td>
<td>66.1%</td>
<td>67.3</td>
</tr>
</tbody>
</table>

**Disability-Free Life Expectancy**

- **2013**: 66.1
- **2020 Goal**: 67.3
VIRGINIA IS HOME TO EXCELLENT providers and hospitals that deliver state-of-the-art health care services. However, like the rest of the United States, many health measures, including patient outcomes and quality, lag behind other developed countries. Health care spending in the United States is the highest in the world and continues to increase. Increased longevity and chronic health problems place new demands on the utilization of medical services and medical technology and contribute to higher spending.

The leading category of health care spending in Virginia is hospitalization. Many hospital stays can be avoided through prevention and primary care. In Virginia in 2013, there were 1,294 avoidable hospital stays for every 100,000 people. The rate ranges significantly across Virginia, from 233 to 6,934 per 100,000. A Kaiser Family Foundation poll found that 40% of Americans were “very worried” about “having to pay more for their health care or health insurance”. The challenge for Virginia is to improve health care quality by providing care that is safe, effective, patient-centered, timely, efficient, and equitable while controlling health care spending.

Meeting this challenge is difficult because health care is delivered across many disparate and independent settings and by many providers. The average Medicare beneficiary with chronic illness in the U.S. sees an average of 13 physicians a year. The Commonwealth Fund Commission challenged health care systems to improve performance by 2020. Strategies include making patient’s clinical information available at the point of care through shared electronic health records and actively coordinating care across providers and settings.
Foundational Goals for a System of Health Care

- Health care in Virginia is affordable to families and businesses
- Virginia assures adequate regulation of health care facilities
- Virginia has a strong primary care system linked to behavioral health care, oral health care, and community support systems
- Virginians obtain, process, and understand basic health information and services needed to make appropriate health decisions
- Virginia’s health IT system connects people, services, and information to support optimal health outcomes
- All health care professionals in Virginia are licensed and/or certified
- Health care-associated infections are prevented and controlled in Virginia

2020 FOCUS GOALS

4.1 Virginia has a strong primary care system linked to behavioral health care, oral health care, and community support systems

4.2 Virginia’s health IT system connects people, services, and information to support optimal health outcomes

4.3 Health care-associated infections are prevented and controlled in Virginia
Goal 4.1: VIRGINIA HAS A STRONG PRIMARY CARE SYSTEM LINKED TO BEHAVIORAL HEALTH CARE, ORAL HEALTH CARE, AND COMMUNITY SUPPORT SYSTEMS

A primary care provider is an important point of entry into the complex health care delivery system. This is especially important for people living with chronic conditions like diabetes. As the number of Virginians with chronic disease increases, the need for patient-centered care coordination and programs to help them manage their medications and monitor their illness increases.

Untreated mental health disorders and substance misuse and abuse have serious impact on physical health and are associated with the prevalence, progression, and outcome of some of today’s most pressing chronic diseases, including diabetes, heart disease, and cancer. Integrating behavioral health care, substance abuse prevention and treatment services, and primary care services produces the best outcomes and proves the most effective approach to caring for people with complex health care needs.23

Bringing together hospital systems, health care providers, insurers and community partners to develop shared strategies to improve population health can lead to improved delivery systems and better coordination of care across settings.

Strategies

- Create Accountable Care Communities throughout Virginia, groups of health-care providers and community partners that voluntarily coordinate high quality care to ensure patients get the right care at the right time; avoid duplication of services; and prevent medical errors
- Incentivize payment for healthcare that leads to prevention and management of health and wellness rather than episodic treatment of disease
- Improve access to comprehensive primary care in patient-centered medical homes
- For patients with complex conditions, integrate primary care with behavioral health care, substance abuse services, and oral health care
- Increase the number of Virginia-certified community behavioral health clinics
- Expand telemedicine services in rural areas of Virginia
Increase care coordination across providers and settings

Expand adoption of the community health worker model by health care organizations

Develop patient-centered health communications that have a positive impact on health, health care, and health equity

Increase the number of providers who screen for nicotine use, including smokeless tobacco and e-cigarettes, and provide or refer for cessation services

Expand access to and use of community-based programs for treatment of mental health disorders

Promote drug-prescribing protocols in health care settings

In primary care and other settings, increase use of the Screening, Brief Intervention, Referral and Treatment tool (an evidence-based practice used to identify, reduce, and prevent problematic use, abuse, and dependence on alcohol and illicit drugs)

Increase the number of providers who screen for domestic violence and refer victims to organizations that can assist them

Educate Virginians about how to avoid wasteful or unnecessary medical tests, treatments and procedures

Key Community Partners

- Businesses
- Community Organizations
- Faith-based Communities
- Federally Qualified Health Centers
- Health-Care Providers
- Hospital Systems
- Public Health
Measures of Success

- **Adults with a Regular Healthcare Providers**
  - 2014: 69.3%
  - 2020 Goal: 85.0%

- **Avoidable Hospital Stays**
  - 2013: 1,294
  - 2020 Goal: 1,100

- **Avoidable Cardiac Disease Deaths**
  - 2013: 50.0
  - 2020 Goal: 40.0

- **Avoidable Deaths from Heart Disease, Stroke, and Hypertensive Di**
  - 2013: 668.5
  - 2020 Goal: 635.1

- **Mental Health and Substance Abuse Hospitalizations Per 100,000 Adults**
  - 2013: 3,800
  - 2020 Goal: 7,600

- **Hospitalizations with State Goal for Prevention of C. difficile Infections**
  - 2013: 668.5
  - 2020 Goal: 635.1
Avoidable Hospital Stays

2013: 1,294
2020 Goal: 1,100

Adults Whose Poor Health Kept Them from Usual Activities

2014: 19.5%
2020 Goal: 18.0%
**Goal 4.2: VIRGINIA’S HEALTH IT SYSTEM CONNECTS PEOPLE, SERVICES, AND INFORMATION TO SUPPORT OPTIMAL HEALTH OUTCOMES**

Virginians and their health-care providers benefit from access to comprehensive, secure, easily accessible health information that can inform better decision making. Connect Virginia HIE, Inc. is the Commonwealth’s health-information exchange designed to promote collaboration and information sharing between consumers, health-care providers, and purchasers of health care services. Developing the capacity to collect, analyze, and share population health information provides the opportunity for Virginia to create policies and systems to bring about meaningful health improvement for all Virginians.

**Strategies**

- Adopt electronic health records in all clinical and care coordination settings
- Expand the use of specific disease registries and reports (for example, patients with hypertension) by medical practices and hospital systems to evaluate and track patient outcomes and develop targeted interventions to improve patient outcomes

**Key Community Partners**

- Businesses
- Elected Officials
- Federally Qualified Health Centers
- Free Clinics
- Health-Care Providers
- Health Insurers
- Hospital Systems
- Public Health

- Connect providers, hospitals, and community partners through Connect Virginia HIE, Inc. to allow for statewide health information exchange
- Develop the capacity to create aggregated data reports through Connect Virginia HIE, Inc. that can be used to analyze and track population health measures
- Enhance public and private data systems and public health information technology to collect, manage, track, analyze, and report population health data
- Support Health Information Technology training opportunities and jobs
Measures of Success

<table>
<thead>
<tr>
<th>Measure</th>
<th>2014</th>
<th>2020 Goal</th>
</tr>
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<tbody>
<tr>
<td>Adult Healthcare Providers</td>
<td>1,294</td>
<td>1,100</td>
</tr>
<tr>
<td>Hospitalizations Per 100,000 Persons</td>
<td>46.8</td>
<td>40.0</td>
</tr>
<tr>
<td>Avoidable Deaths from Heart Disease, Stroke, and Hypertensive Dz Per 100,000 Persons</td>
<td>3,800</td>
<td>7,600</td>
</tr>
<tr>
<td>Mental Health and Substance Abuse Hospitalizations Per 100,000 Persons</td>
<td>70.6%</td>
<td>90.0%</td>
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<tr>
<td>Hospitals Meeting State Goal for Prevention of C. difficile Infections</td>
<td>19.5%</td>
<td>18.0%</td>
</tr>
<tr>
<td>Entities Connected to Health Information Exchange</td>
<td>3,800</td>
<td>7,600</td>
</tr>
</tbody>
</table>

**Notes:**
- **Healthcare Providers:** 1,294 in 2013, goal of 1,100 in 2020.
- **Avoidable Hospitalizations:** 46.8% in 2013, goal of 40.0% in 2020.
- **Avoidable Heart Disease Deaths:** 3,800 in 2013, goal of 7,600 in 2020.
- **Mental Health and Substance Abuse Hospitalizations:** 70.6% in 2013, goal of 90.0% in 2020.
- **Hospitals Meeting State Goal for Prevention of C. difficile Infections:** 19.5% in 2013, goal of 18.0% in 2020.
- **Entities Connected to Health Information Exchange:** 3,800 in 2015, goal of 7,600 in 2020.
Goal 4.3: HEALTH CARE-ASSOCIATED INFECTIONS ARE PREVENTED AND CONTROLLED IN VIRGINIA

Developing systems to assure patient safety has improved but remains an important goal in providing quality care. Health care-associated infections (HAIs), those resulting from the receipt of medical care in health care settings, are estimated to account for $28 to $45 billion in direct health care costs in the United States annually. When health care facilities employ evidence-based prevention strategies, HAIs can be prevented and controlled. For example, Clostridium difficile, a type of bacteria that causes gastrointestinal illness, accounts for 12% of HAIs in hospitals. Strategies to prevent spread include complying with hand hygiene guidelines, ensuring adequate cleaning and disinfection of the environment, and prescribing antibiotics appropriately.

Strategies

- Create a culture of safety in health care facilities that encourages effective communication between health-care providers, patients, and family members
- Perform hand hygiene frequently
- Use antibiotics wisely to prevent bacteria from developing resistance to the drugs that are used to treat them
- Implement standard precautions in the care of all patients in all health care settings all of the time
- Use evidence-based methods to clean medical equipment and the health care environment
- Collect, analyze, and use data to engage healthcare providers in quality improvement activities
- Increase knowledge and practice of key prevention strategies for the various HAIs across and within healthcare settings
- Use health information systems to reinforce clinical practices that improve patient safety

Key Community Partners

- Academic Partners
- Businesses
- Health-Care Providers
- Hospital Systems
- Insurers
- Public Health
Measure of Success

Hospitals Meeting State Goal for Prevention of C. difficile Infections

<table>
<thead>
<tr>
<th>Year</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>2013</td>
<td>38.5%</td>
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<tr>
<td>2020 Goal</td>
<td>100%</td>
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REFERENCES


