



**STEPS**

**TOWARD**

**WELLNESS**

**Report Card of  
Community Health Indicators**

**May 2012**

**JOHN R. LEOPOLD**  
County Executive

**DR. ANGELA M. WAKHWEYA, MSc.ECON.**  
Health Officer



**Anne Arundel County Department of Health**



## County Executive's Message

I am pleased to present the Anne Arundel County Department of Health 15<sup>th</sup> annual Report Card of Community Health Indicators. This report offers a comprehensive snapshot of our County's health. We have made significant progress over the past few years in some areas, such as a decrease in cancer mortality rates, a decrease in adult tobacco use and an increase in colorectal cancer screening. However, we need to drill down in other areas to the social, economic and environmental determinants of disease to truly make a difference in the health disparities that continue to persist in our County.

Anne Arundel County has over half a million residents, over 500 miles of linear coastline and two major hospitals. The Department of Health works in a complex public health environment to support County residents in accessing the physical, behavioral and environmental health services they need. In these challenging economic times, the services the Department provides are vital.

We thank Department of Health staff for their commitment and service. Through the Department's partnerships with other government agencies, health care providers, payers of care, community-based organizations, academic institutions, the private sector and individuals, we are able to take steps to ensure that our County is a healthy place to live, work, learn, play and thrive.

Respectfully,

John R. Leopold  
*County Executive*



## Anne Arundel County Department of Health Locations





## Health Officer's Message

The vision of the Anne Arundel County Department of Health is a vibrant Anne Arundel County in which healthy people reside in healthy communities. Our mission is to preserve, promote and protect the public health for Anne Arundel County residents. Our journey toward achieving our vision and mission begins with a single step. Each of us, taking steps toward a healthier lifestyle every day will result in a County where residents are the healthiest in Maryland.

What steps can we take together to make ourselves healthier?

Step 1: Determine your healthy weight and make weekly goals to reach it.

Step 2: "Eat healthier" by choosing healthier foods for you and your family.

Step 3: "Move more" during your leisure time or through workplace initiatives.

Step 4: Get a mental health screening for depression or post-traumatic stress.

Step 5: Get screened for alcohol, opioid or prescription drug abuse.

Step 6: Review your family history and get screened for cancer.

Step 7: Visit your dental health provider every six months.

Step 8: Get tested for sexually transmitted infections and HIV.

Step 9: Schedule your annual health visit with your primary care doctor.

Step 10: Keep your home, community and workspace free of clutter.

This report is a valuable resource for our common journey. It details the accomplishments we have made towards Healthy People 2020 goals in several areas, including diabetes related mortality and cholesterol screening, but also outlines areas needing improvement related to improving adults at a healthy weight and reducing deaths related to coronary heart disease and stroke. It also serves as a guidebook for the future stepping stones toward "health and wellness" that we all need to take, as a community, to improve the health of all County residents.

Warm regards,

Dr. Angela M. Wakhweya, MSc.Econ.  
*Health Officer*





# Introduction

## **About Anne Arundel County:**

Anne Arundel County is the fifth largest county in Maryland with a population of 537,656. The County has 195 public and private schools, 70,000 students, 5,000 teachers, and three major institutions of higher education, including the U.S. Naval Academy. The County is also home to the Fort George G. Meade military installation, has over 15 major highway routes including the Bay Bridge, and hosts the Baltimore/Washington International Thurgood Marshall Airport. The County has two major hospitals, a robust public and private health care provider network and a large network of fire stations and police infrastructure serving its residents. In addition, the County has two State parks, over 70 County parks and more than 534 miles of linear coastline.

## **About the Anne Arundel County Department of Health (DOH):**

The DOH is the government agency responsible for public health in Anne Arundel County. The mission of the DOH is to preserve, promote and protect the health of all County residents. In fulfilling this mission, the DOH

- assesses the County's health problems, needs and resources,
- organizes effective public and private sector strategies to address needs,
- provides services directly to County residents to meet local health goals.

More than one out of every three County residents is directly served by DOH programs each year. More than 184,000 residents receive direct personal health or screening services through Department programs. Another 41,000 residents and businesses receive permits, inspections and other environmental services annually.

## **About the Healthy Anne Arundel Coalition:**

The Healthy Anne Arundel Coalition was formed in December 2011 with a mission of working together as a community to promote the health and wellness of Anne Arundel County residents. The Coalition members include public sector providers, health care providers and payers, community-based partners, the business community and academic partners. The purpose of the Coalition is to address local health issues by developing and implementing actionable strategies to improve public health.

The Coalition has identified the two priority areas of obesity prevention and the management of mental health and substance abuse as co-occurring disorders.

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# Demographics

2010 Census & Estimates	Anne Arundel	Maryland	United States
<b>Population</b>			
Total Population	537,656	5,773,552	308,745,538
Male	49.4%	48.4%	49.2%
Female	50.6%	51.6%	50.8%
<b>Race, Ethnicity and Age</b>			
White, Not Hispanic (NH)	72.4%	54.7%	63.7%
Black, NH	15.2%	29.0%	12.2%
Hispanic	6.1%	8.2%	16.3%
Asian, NH	3.4%	5.5%	4.7%
American Indian, NH	0.3%	0.2%	0.7%
Other, NH	2.6%	2.4%	2.3%
Under 5 Years Old	6.4%	6.3%	6.5%
18 Years and Over	76.7%	76.6%	76.0%
65 Years and Over	11.8%	12.3%	13.0%
Median Age	38.4	38.0	37.2
<b>Household and Economic Indicators</b>			
Median Household Income	\$83,456	\$70,647	\$51,914
Families Below Poverty Level	3.3%	5.7%	10.1%
Individuals Below Poverty Level	5.3%	8.6%	13.8%
Unemployment Rate, January 2012*	6.1%	7.0%	8.8%
Uninsured (Ages 18-64)	10.3%	12.9%	17.8%

Data Source: 2010 Census, U.S. Census Bureau; 2010 American Community Survey 5-year Estimates, U.S. Census Bureau; Bureau of Labor Statistics, U.S. Department of Labor (\*not seasonally adjusted preliminary unemployment rates); National Behavioral Risk Factor Surveillance System (BRFSS), Centers for Disease Control and Prevention (CDC).



# Healthy People 2020

At the start of each decade, the U.S. Department of Health and Human Services provides a set of 10-year national objectives for improving health. The Healthy People 2020 goals help guide Anne Arundel County's ongoing steps toward wellness. The County has already met some of the 2020 goals and continues to work toward achieving others.



Indicator	Anne Arundel (as of 2010)	National 2020 Goal	Met National 2020 Goal
Mortality (age-adjusted rates per 100,000 population)			
Coronary Heart Disease	191.6	100.8	No
Stroke	41.4	33.8	No
Diabetes	22.0	65.8	Yes
Unintentional Injuries	21.8	36.0	Yes
All Cancer	182.2	160.6	No
Lung Cancer	62.3*	45.5	No
Female Breast Cancer	25.0*	20.6	No
Homicide	3.8	5.5	Yes
Suicide	9.5	10.2	Yes

\*Rates based on data from 2004-2008.

Data Source: Maryland Vital Statistics Annual Report, Division of Health Statistics, Maryland DHMH; 2010 Cigarette Restitution Fund Program Cancer Report, Maryland DHMH; Healthy People 2020, U.S. DHHS.





# Healthy People 2020

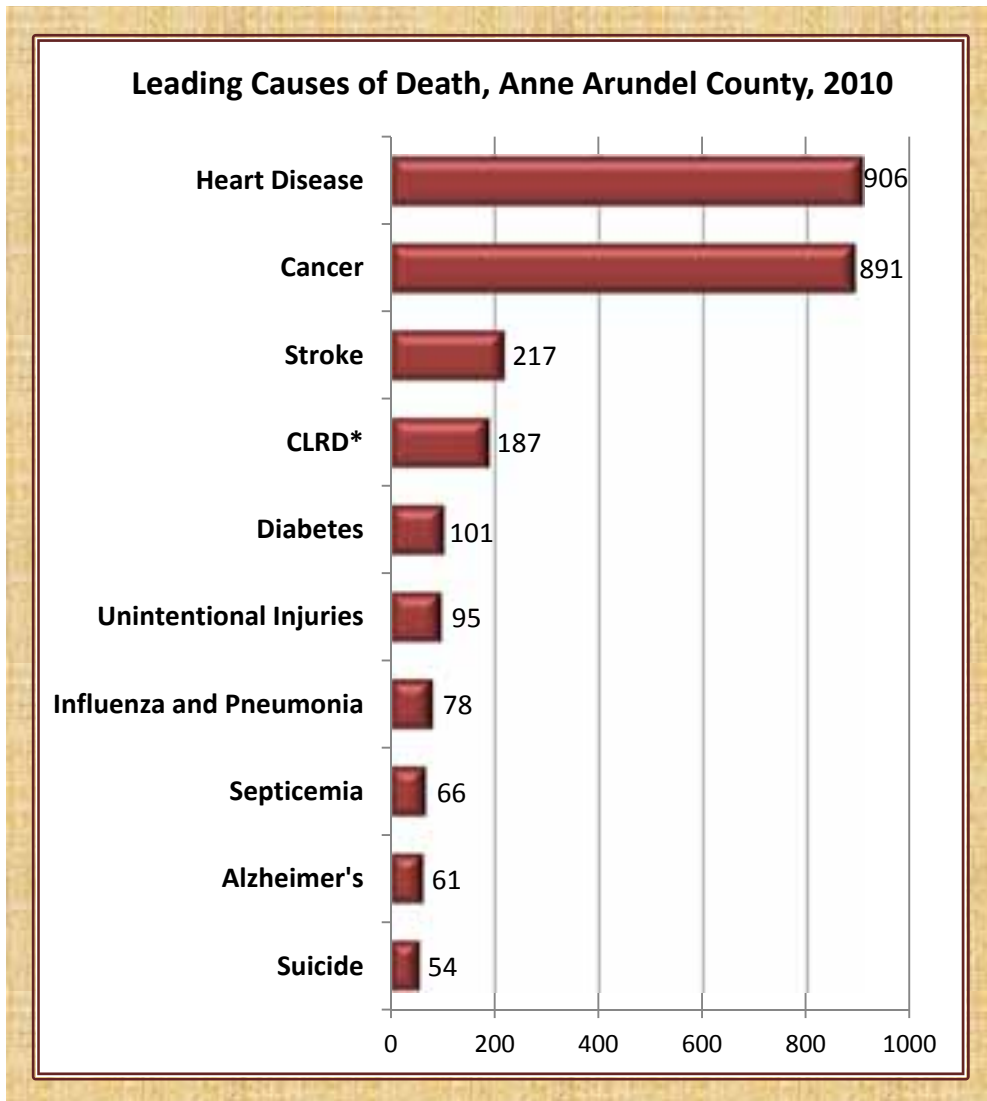
Indicator	Anne Arundel (as of 2010)	National 2020 Goal	Met National 2020 Goal
<b>Maternal and Infant Health</b>			
First Trimester Prenatal Care	70.4%	77.9%	No
Low Weight Births	8.2%	7.8%	No
Infant Mortality Rate (per 1,000 Live Births)	4.7	6.0	Yes
<b>Risk Factors</b>			
Cigarette Smoking by Adults	15.3%	12.0%	No
Healthy Weight in Adults	32.1%	33.9%	No
Obesity in Adults	29.6%	30.6%	Yes
<b>Health Access and Screening</b>			
Mammography Screening in Past 2 Years (age 50+)	79.1%	81.1%	No
Colorectal Cancer Screening (age 50+)	73.0%	70.5%	Yes
Cholesterol Checked in Last 5 Years	86.0% (as of 2009)	82.1%	Yes
Health Insurance	89.7% (for ages 18-64)	100%	No

Data Source: Maryland Vital Statistics Annual Report, Division of Health Statistics, Maryland DHMH; National BRFSS, CDC; U.S. DHHS; Healthy People 2020, U.S. DHHS.



## Leading Causes of Death

In 2010, 3,654 residents of Anne Arundel County were reported to have died, and life expectancy was 79.0 years. There are many modifiable risk factors that contribute to the leading causes of death, including smoking, high blood pressure, overweight and obesity, physical inactivity, poor diet and excess alcohol consumption. Preventive health behaviors can reduce the burden of long-term disability and premature death.



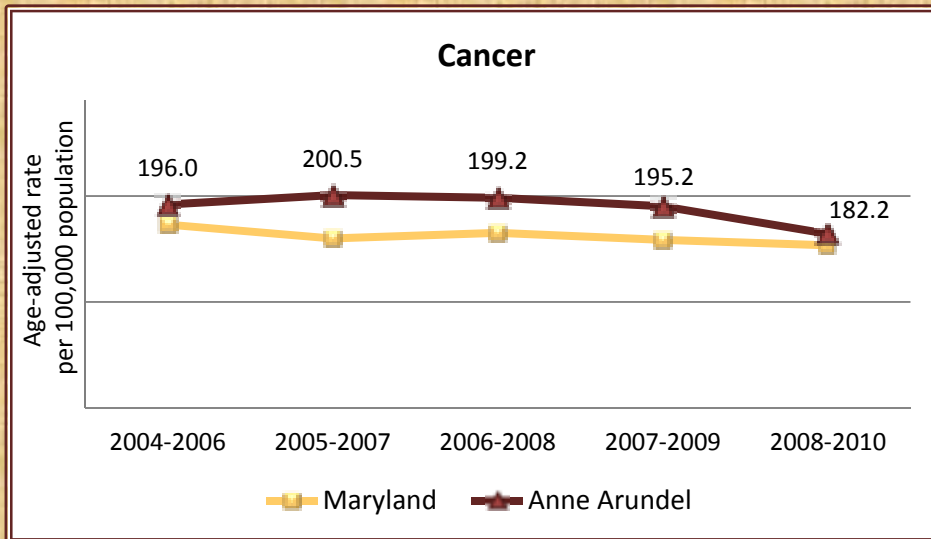
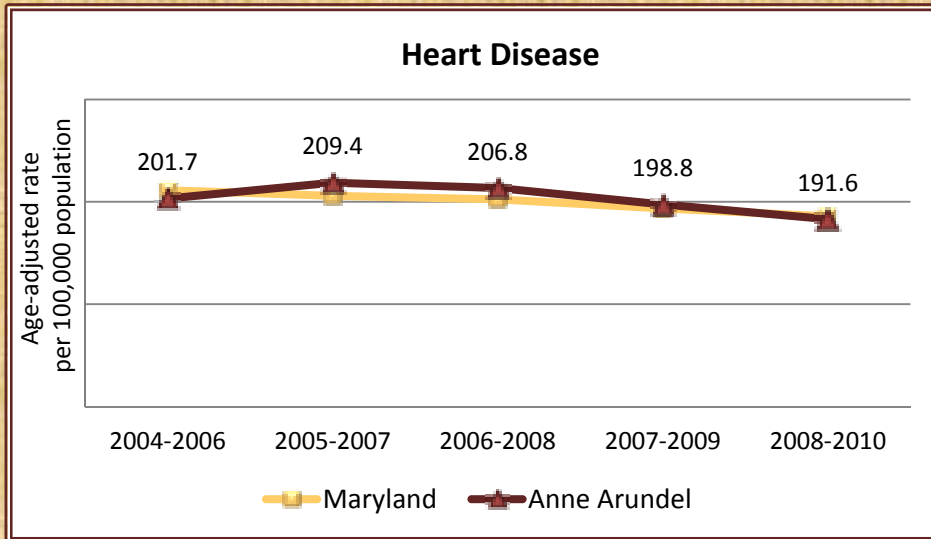
\*Chronic lower respiratory diseases (CLRD) include both chronic obstructive pulmonary disease and asthma.

Data Source: Maryland Vital Statistics Annual Report, Division of Health Statistics, Maryland DHMH.



# Mortality Trends

## Age-Adjusted Mortality Rates, Anne Arundel County, 2004-2010

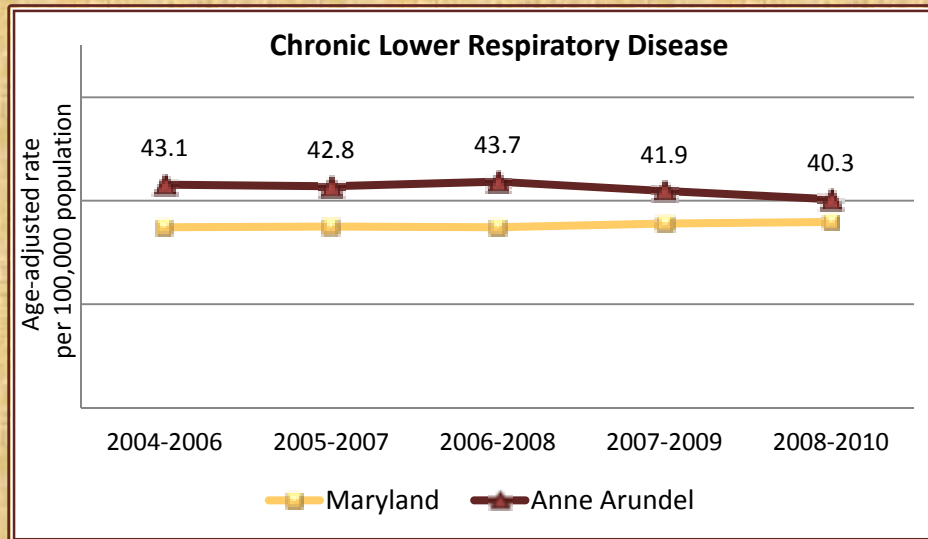
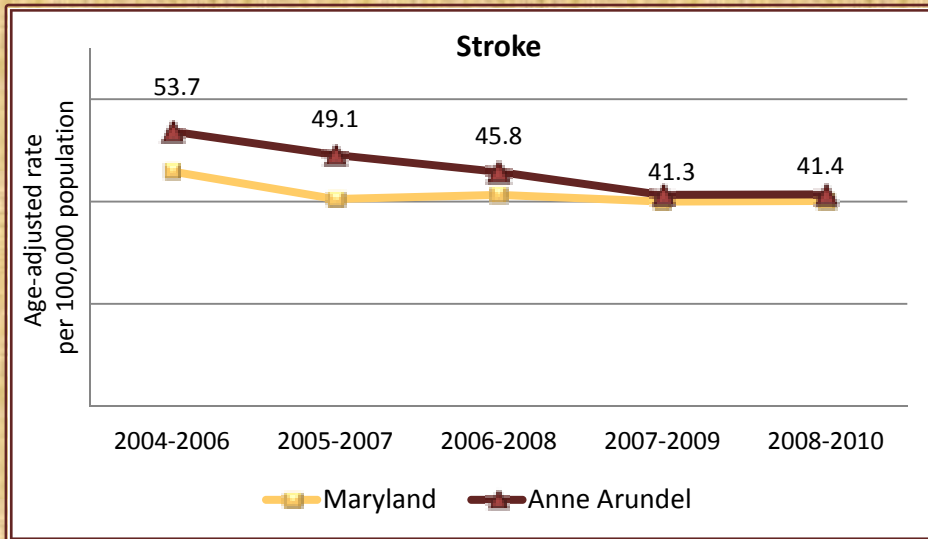


Data Source: Maryland Vital Statistics Annual Report, Division of Health Statistics, Maryland DHMH.



# Mortality Trends

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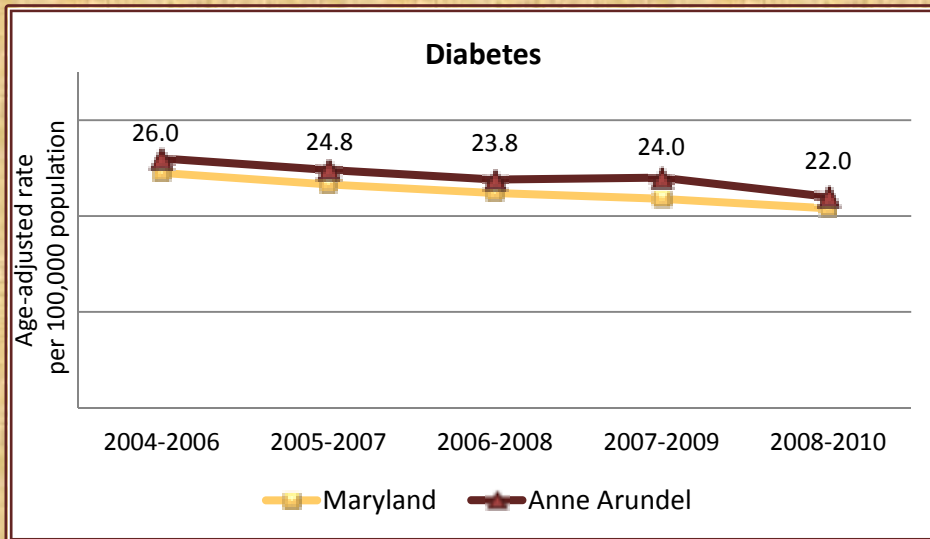
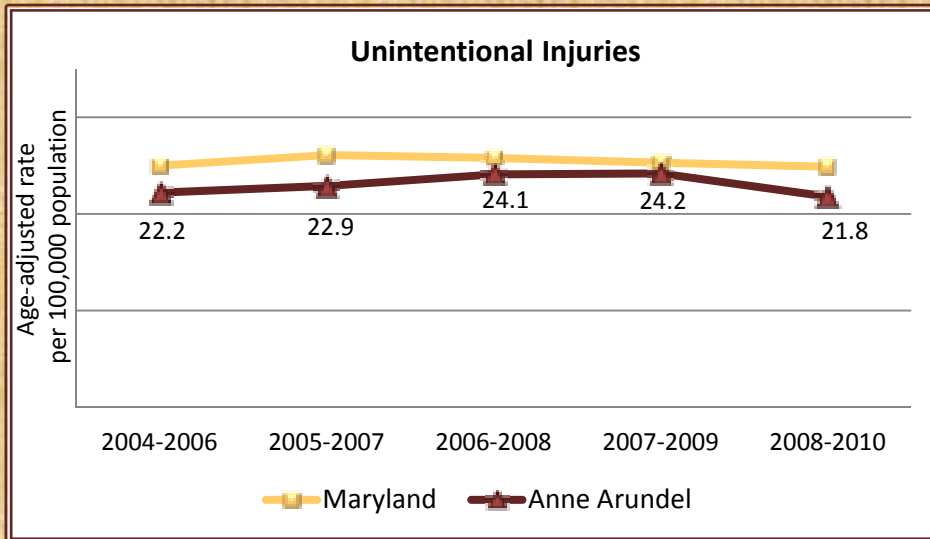


Data Source: Maryland Vital Statistics Annual Report, Division of Health Statistics, Maryland DHMH.



# Mortality Trends

## Age-Adjusted Mortality Rates, Anne Arundel County, 2004-2010



Data Source: Maryland Vital Statistics Annual Report, Division of Health Statistics, Maryland DHMH.



# Cancer Incidence

**Cancer Incidence Rates\*, Anne Arundel County, 2004-2008**

Cancer Type	County Case Count	Anne Arundel Rates	Maryland Rates	United States Rates
All Sites (Both Genders**)	11,906	471.9	454.5	471.8
Breast (Female)	1,720	123.2	122.4	121.1
Cervical (Female)	83	6.2	7.1	8.1
Colorectal (Both Genders**)	1,007	41.5	44.0	47.6
Colorectal (Male)	537	49.8	51.2	55.6
Colorectal (Female)	469	35.2	38.6	41.4
Lung/Bronchus (Both Genders**)	1,764	73.1	65.4	67.9
Lung/Bronchus (Male)	885	82.7	78.2	84.3
Lung/Bronchus (Female)	871	65.6	56.3	55.8
Melanoma (Both Genders**)	781	30.3	20.6	18.8
Prostate (Male)	1,780	146.7	155.1	152.7

\*Age-adjusted rates per 100,000 population; \*\*Total also includes unknown gender cases.

Data Source: 2011 Cigarette Restitution Fund Program Cancer Report, Maryland DHMH; National Center for Health Statistics, CDC WONDER.



# Cancer Mortality

**Cancer Mortality Rates\*, Anne Arundel County, 2004-2008**

Cancer Type	County Death Count	Anne Arundel Rates	Maryland Rates	United States Rates
All Sites (Both Genders)	4,693	197.7	184.5	181.3
Breast (Female)	343	25.0	25.4	23.5
Cervical (Female)	23	1.7	2.3	2.4
Colorectal (Both Genders)	423	18.4	18.0	17.2
Colorectal (Male)	236	23.0	22.0	20.7
Colorectal (Female)	187	14.6	15.0	14.5
Lung/Bronchus (Both Genders)	1,491	62.3**	52.0**	51.6
Lung/Bronchus (Male)	781	73.9	66.1	67.4
Lung/Bronchus (Female)	710	53.7	41.8	40.1
Melanoma (Both Genders)	94	4.0	2.7	2.7
Prostate (Male)	209	24.5	25.9	24.4

\*Age-adjusted rates per 100,000 population; \*\*Includes cancer of the trachea.  
 Data Source: Maryland Vital Statistics Administration; National Center for Health Statistics, CDC WONDER.



# Infant Health Indicators

	2006	2007	2008	2009	2010
<b>Number of Births (Mother's Race), Anne Arundel County</b>					
Total	7,102	7,115	7,156	7,103	7,075
Whites	5,529	5,489	5,456	5,333	5,431
Blacks	1,169	1,226	1,270	1,332	1,280
Hispanic, Any Race	698	742	773	770	825
<b>Percent of Low Birth Weight Infants</b> (<2500 grams or approximately 5.5 lbs)					
Anne Arundel	9.1%	8.2%	9.2%	8.2%	8.2%
Maryland	9.4%	9.1%	9.3%	9.2%	8.8%
United States	8.3%	8.2%	8.2%	8.2%	8.2%**
<b>Percent of Women Receiving First Trimester Prenatal Care</b> (First trimester includes the first 12 weeks of pregnancy)					
Anne Arundel	89.2%	87.4%	89.2%	88.4%	70.4%*
Maryland	80.4%	79.5%	80.2%	80.2%	56.9%*
United States	83.2%	70.8%	71.0%	NA	NA
<b>Births to Women 15-19 Years Old per 1,000 Women Ages 15-19</b>					
Anne Arundel	26.8	27.8	28.9	27.8	25.8
Maryland	33.6	34.4	32.7	31.2	27.2
United States	41.1	41.5	40.2	37.9	34.3**

\*2010 data cannot be compared to previous years due to changes to the Maryland birth certificate. \*\*Preliminary data. NA=Not available.

Data Source: Maryland Vital Statistics Reports, Division of Health Statistics, Maryland DHMH; National Center for Health Statistics, CDC.





# Infant Mortality



Infant mortality measures deaths during the first year of life. In 2010, there were 33 infant deaths in Anne Arundel County with an overall infant mortality rate of 4.7 per 1,000 live births. The Healthy People 2020 goal for infant mortality is no more than 6.0 deaths per 1,000 live births. Although the County currently meets this goal overall, a significant disparity continues to exist between white and black infant mortality. In 2010, black infants had a mortality rate of 10.9, over three times higher than white infants.

	2006	2007	2008	2009	2010
<b>Infant Mortality – All Races per 1,000 Live Births</b>					
Anne Arundel	7.7	6.5	8.7	4.9	4.7
Maryland	7.9	8.0	8.0	7.2	6.7
United States	6.7	6.8	6.6	6.4	6.14*
<b>Infant Mortality – Whites per 1,000 Live Births</b>					
Anne Arundel	5.2	5.6	7.1	4.1	3.3
Maryland	5.7	4.6	5.2	4.1	4.1
United States	5.6	5.6	5.6	5.3	5.2*
<b>Infant Mortality – Blacks per 1,000 Live Births</b>					
Anne Arundel	21.4	9.8	17.3	9.0	10.9
Maryland	12.7	14.0	13.4	13.6	11.8
United States	13.3	13.2	12.7	12.6	11.6*

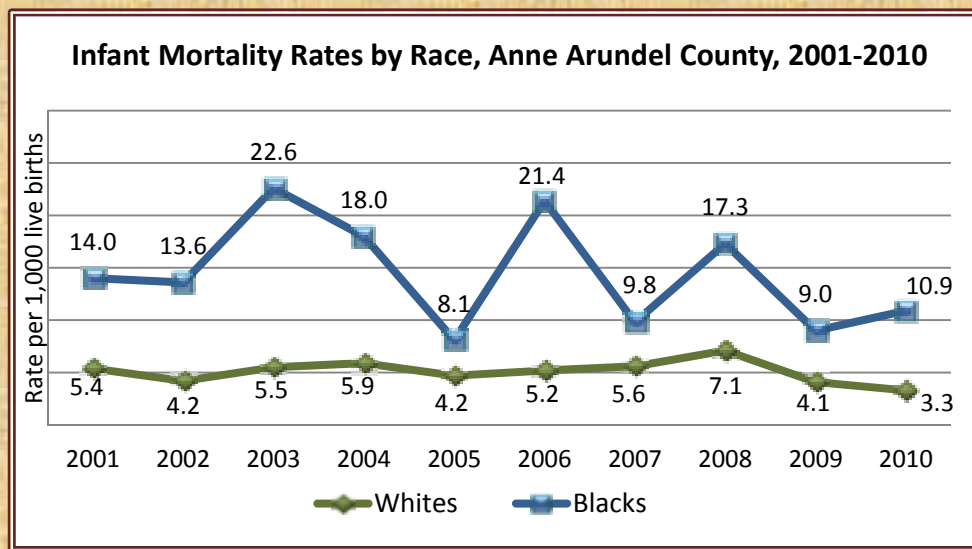
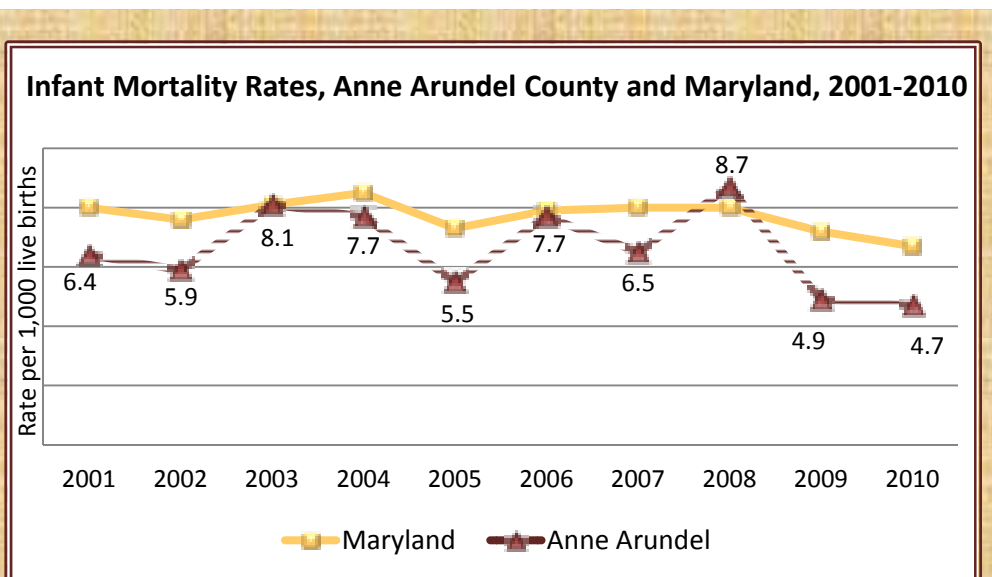
\*Preliminary.

Data Source: Maryland Vital Statistics Reports, Division of Health Statistics, Maryland DHMH; National Center for Health Statistics, CDC.



# Infant Mortality

Premature births and issues such as smoking, substance abuse, poor nutrition and chronic health conditions impact pregnancy outcomes. Early and continuous prenatal care and education about healthy pregnancies and caring for a baby (immunizations, injury prevention, safe sleep position) may help improve the health and survival of infants. The County's 2010 infant mortality rate was lower than any other year in the last decade.



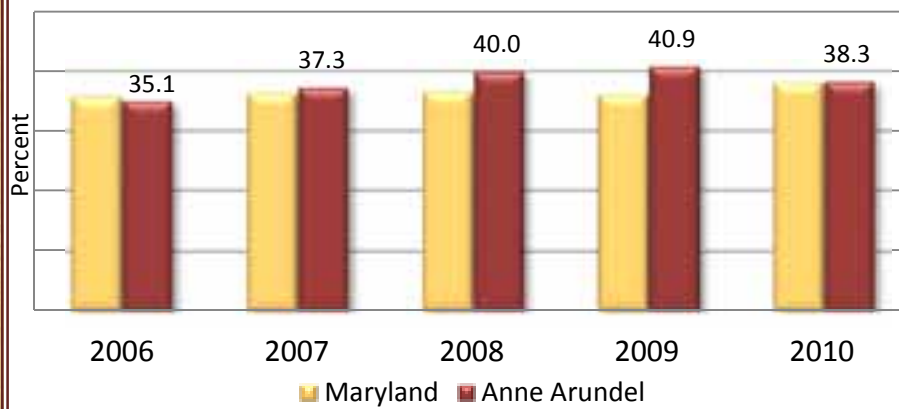
Data Source: Maryland Vital Statistics Reports, Division of Health Statistics, Maryland DHMH.



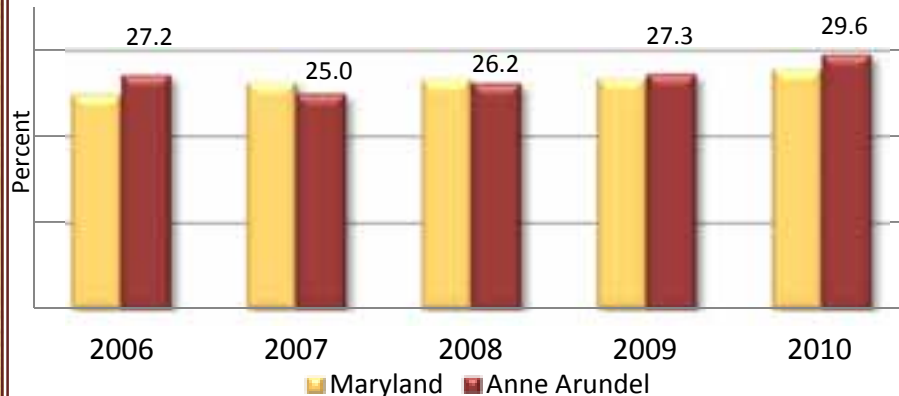
# Overweight and Obesity

Being overweight or obese increases the risk of diabetes, heart disease, cancer, stroke, high cholesterol, high blood pressure, sleep disorders and respiratory problems. There are many factors that play a role in weight, including lifestyle, surrounding environment, genetics and certain diseases. Overweight and obesity are determined using weight and height to determine a BMI\*, or “body mass index” measure.

**Percent of Overweight Adults (Body Mass Index of 25 to 29.9)  
18 Years and Older, Anne Arundel County and Maryland, 2006-2010**



**Percent of Obese Adults (Body Mass Index of 30 or more)  
18 Years and Older, Anne Arundel County and Maryland, 2006-2010**

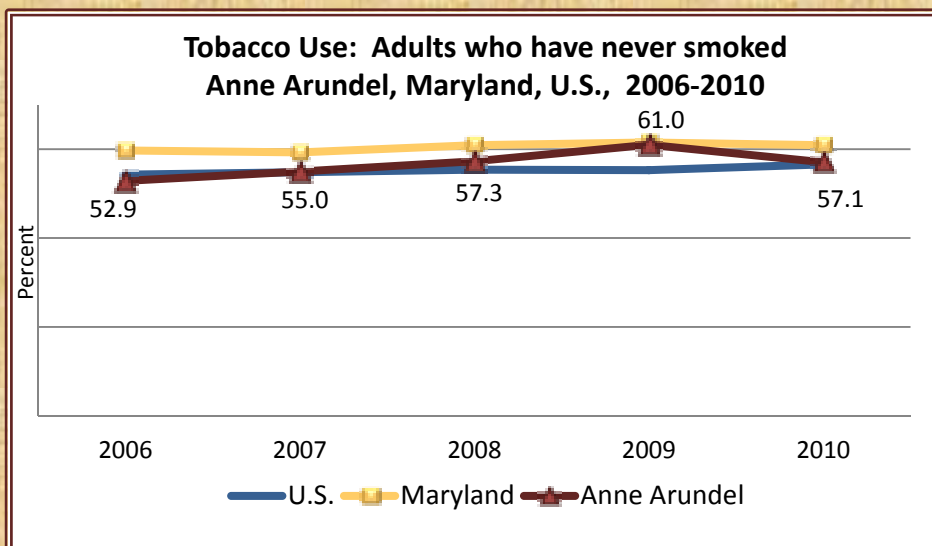
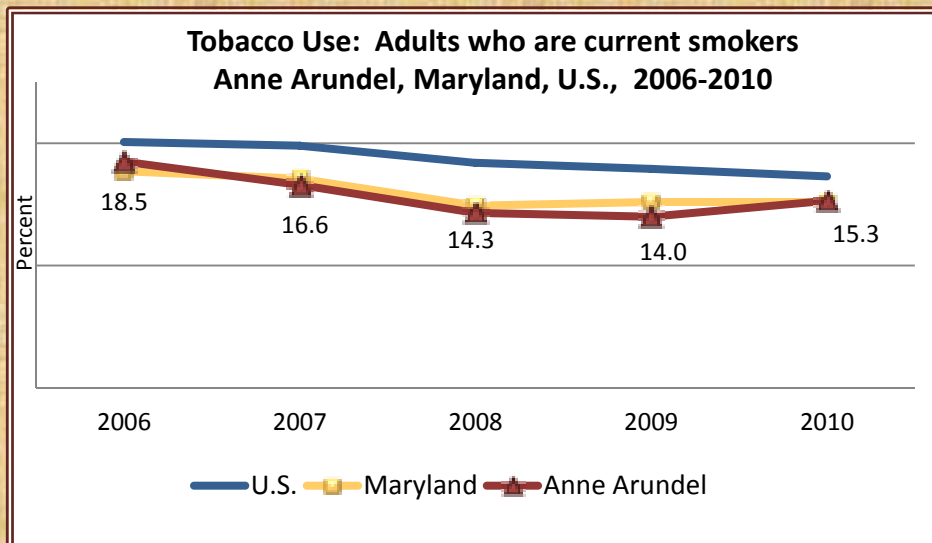


\*BMI is measured as weight (pounds) X 703 divided by height (inches) squared.  
Data Source: National BRFSS, CDC.



# Tobacco Use

Smoking is the leading risk factor for lung cancer, and it also increases the risk of other health problems, including chronic lower respiratory disease (e.g., COPD and asthma), respiratory infections, heart problems, premature birth and Sudden Infant Death Syndrome (SIDS). To meet the Healthy People 2020 goal, Anne Arundel County will need to reduce the proportion of current adult smokers from 15.3 to 12 percent.

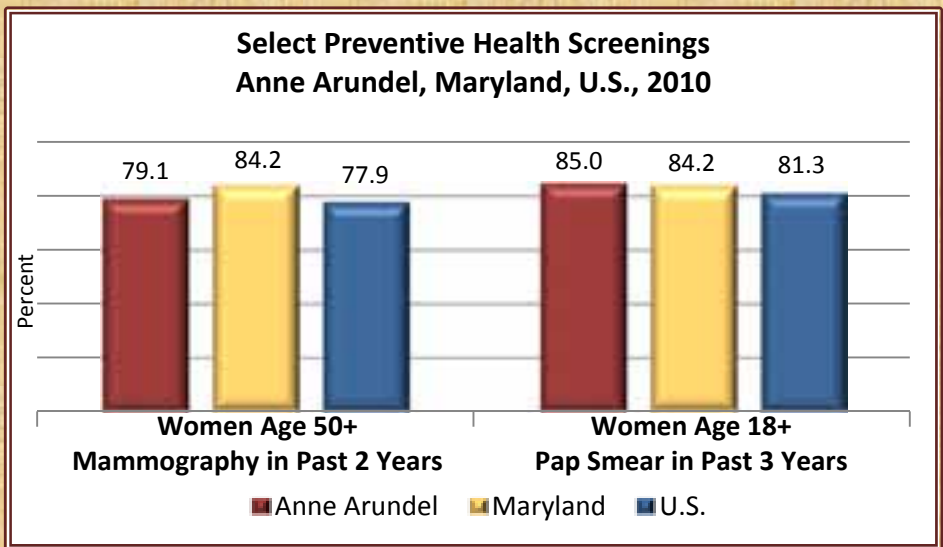
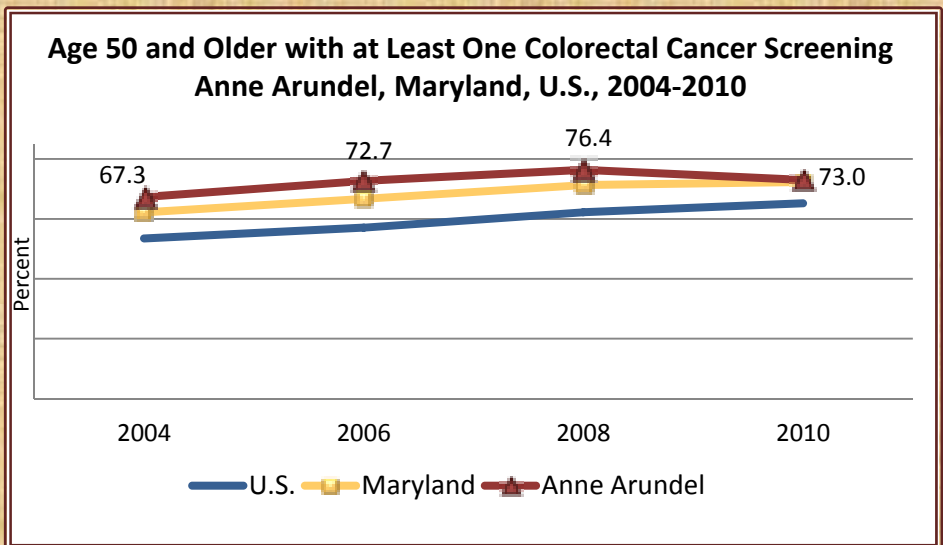


Data Source: National BRFSS, CDC.



# Preventive Health Screening

Early detection greatly increases the opportunity for successful cancer treatment. Approximately 5 percent of men and women will develop colorectal cancer during their lifetime, 1 in 8 women will develop breast cancer, and 1 in 147 women will develop cervical cancer. Recommendations to help prevent cancer include maintaining a healthy weight, being physically active, eating a healthy diet and limiting alcohol consumption.



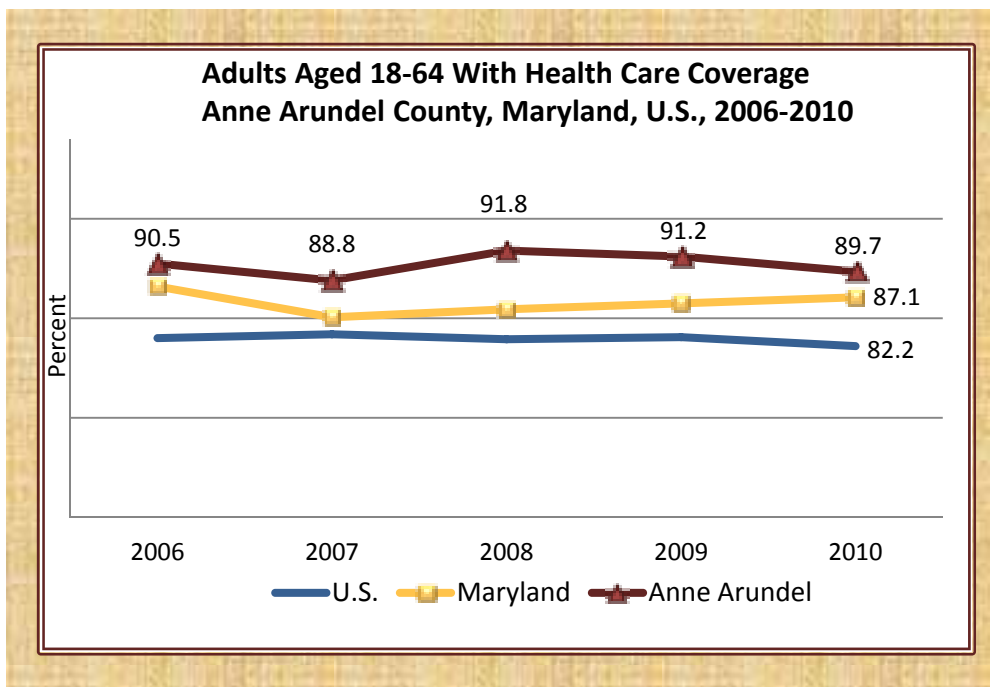
Data Source: National BRFSS, CDC; American Cancer Society.



# Health Care Insurance



Over 10 percent of County residents between the ages of 18 and 64 reported that they lacked any kind of health care insurance in 2010. This means there are approximately 36,000 working-age adults in our community without health insurance. Improving access to health care insurance is essential to increasing health and wellness and reducing health disparities. In Anne Arundel County, the percentage of adults without health insurance is lower than in Maryland and the United States.



Data Source: National BRFSS, CDC.



# General Disease Reporting

Number of Selected Reportable Diseases In Anne Arundel County				
	2009	2010	2011*	5-Year Mean
Campylobacter	49	65	54	44
Salmonella	62	75	97	83
Vibrio	6	8	6	6
Legionellosis	10	10	12	9
<i>M. tuberculosis</i>	4	6	8	9
<i>M. marinum</i>	5	5	7	7
Hepatitis A	6	1	3	4
Hepatitis B**	136	93	76	118
Hepatitis C**	869	539	581	687
Meningitis, viral	55	41	42	40
Meningitis, meningococcal	3	1	0	2
Pertussis	22	10	17	14
Streptococcus Pneumonia, invasive	72	69	53	66
Chlamydia	1,255	1,359	1,674	1,425
Gonorrhea	245	289	213	257
Syphilis***	30	14	32	32
Lyme Disease	202	115	85	154
Rocky Mountain Spotted Fever	10	23	13	14
Animal Rabies	19	20	7	14
Outbreaks: Gastrointestinal	13	10	10	12
Outbreaks: Respiratory	8	3	5	5

\*Provisional data; \*\*Includes both acute and chronic cases;

\*\*\*Includes primary and secondary.

Data Source: Bureau of Disease Prevention and Management, Anne Arundel County Department of Health.



# Nitrogen Reducing Septic Program

Anne Arundel County has 533 miles of shoreline along the Chesapeake Bay and its tributaries. The Bay is a source of livelihood and a recreational resource for many County residents and visitors. However, the Bay is impacted by high levels of nitrogen that result in increased algae and decreased water quality and fish populations. The County has 40,684 septic systems, which contribute an estimated 880,000 pounds of nitrogen annually to the Chesapeake Bay. More than 13,000 septic systems are located in the area closest to the Bay known as the “Critical Area.”\* Failing septic systems are especially damaging to the Bay and the surrounding environment due to increased nitrogen production.

The Bay Restoration (Septic) Program provides state-funded grants to homeowners to help replace failing septic systems with new technology that is proven to decrease the amount of nitrogen by 50 percent. The Anne Arundel County Department of Health awards grant funds to help residents repair, replace or upgrade septic systems. Reducing the level of nitrogen is a critical part of the Maryland Watershed Implementation Plan developed by the Maryland Department of the Environment to restore and protect the Bay.



	2009	2010	2011	2012 (projected)
New Units Installed	74	52	134	140
Pounds of Nitrogen Reduced per Year	900	632	1629	1702
Cumulative Pounds of Nitrogen Reduced	900	1532	3,161	4,863

\*All land within 1,000 feet of the Mean High Water Line of tidal waters or the landward edge of tidal wetlands and all water of and lands under the Chesapeake Bay and its tributaries.

Data Source: Environmental Health Bureau, Anne Arundel County Department of Health.





## Behavioral Health

The Anne Arundel County Department of Health provides direct clinical services and partners with local agencies to promote effective strategies to meet the needs of County residents affected by mental illness, substance abuse and violence. According to national figures, mental illness affects 26 percent of U.S. adults. In Maryland, 18.1 percent of residents between the ages of 18 to 25 used an illicit drug in the past month. Mental illness and substance abuse often present as co-occurring disorders and are complex, requiring a coordinated, County-wide response.

### Community Treatment Services Program

The Community Treatment Services Program helps to reduce barriers to treatment and recovery by coordinating clinical assessments, referral, treatment and recovery services for County residents affected by substance abuse. From July 2010 to June 2011, the program:



- ★ Performed 2,769 substance abuse assessments
- ★ Provided 437 people with access to treatment programs through the Opportunity for Treatment Fund

### Adolescent and Family Services Program Adult Addictions Program

Clinical services are often needed to help those with mental illness and substance abuse, but they can be difficult to access. Two Department of Health programs that help make clinical services available are the Adolescent and Family Services Program that provides help for youth with mental illness and the Adult Addictions Program that treats adults with opiate addictions. Between July 2010 and June 2011, these two programs:



- ★ Served a total of 813 individuals
- ★ Provided 11,025 individual, family and group counseling sessions

Data Source: Behavioral Health Services Bureau, Anne Arundel County Department of Health; National Institute of Mental Health, National Institutes of Health; 2008-2009 National Survey on Drug Use and Health, SAMHSA.



## Disease Prevention and Management

The Anne Arundel County Department of Health partners with community organizations to provide culturally appropriate health education programs and activities to help prevent and reduce chronic disease and encourage healthy lifestyles. The Department of Health's Community Education and Health Disparities program and the Cancer Screening programs are designed to help address cancer as one of the leading causes of death and disability in our community. Nearly 45 percent of all men and 38 percent of all women will develop cancer during their lifetime.

### **Anne Arundel County Community Education and Health Disparities Program**



For many common types of cancer, such as lung, breast, colorectal and prostate, African Americans have the highest mortality rates. Culturally appropriate education and prevention is critical for minority populations to help address the health disparities in our community. From July 2010 to June 2011, the Department of Health partnered with African American, Hispanic and Korean community groups to provide tobacco prevention presentations to 5,630 County residents and cancer prevention educational presentations to 7,053 residents.

### **Anne Arundel County Cancer Screening**

Two Department of Health programs help provide critical cancer screenings for individuals who have limited or no health care coverage: the Breast and Cervical Cancer Program and the LifeScreen Colorectal Cancer Screening Program. Highlights from these two programs from July 2010 to June 2011 include:

- ★ 1,163 women screened for breast and cervical cancer
- ★ 6 women diagnosed with breast cancer and 5 diagnosed with cervical cancer
- ★ 129 County residents screened for colorectal cancer
- ★ 105 precancerous polyps removed and 3 people diagnosed with colorectal cancer were referred for treatment

Data Source: Disease Prevention and Management Bureau, Anne Arundel County Department of Health.

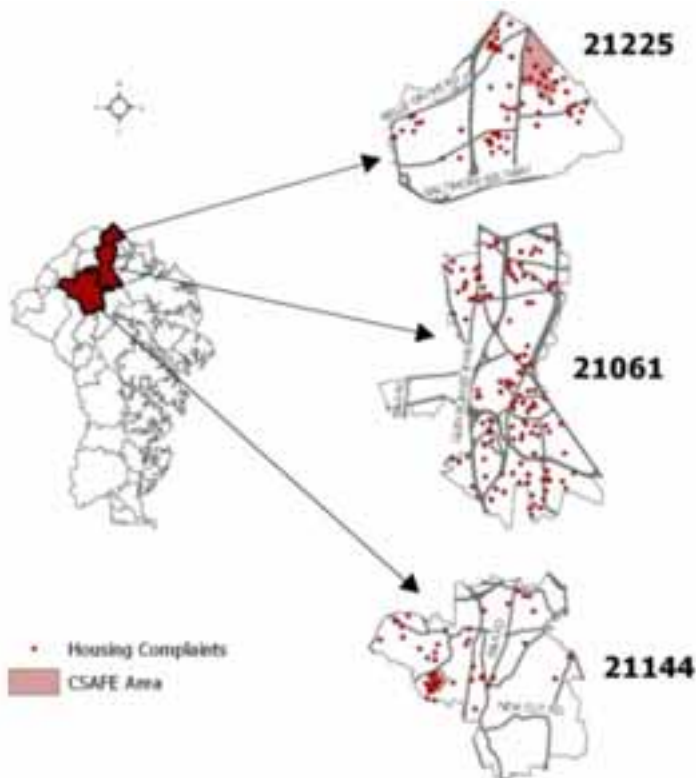


## Environmental Health

The Anne Arundel Department of Health responds to complaints concerning general housing conditions; accumulated trash, junk and debris; rats, mice or rodents; and unsafe or unhealthy housing conditions that exist within a community. Good sanitation is essential in protecting public health and safety and is necessary for healthy communities to thrive.

The Department of Health investigated 1,190 housing-related complaints in 2011. The highest number of housing complaints within a ZIP code included 21225 (Brooklyn Park), 21144 (Severn), and 21061 (Glen Burnie). Increased housing surveillance exists within identified CSAFE (Collaborative Supervision & Focused Enforcement) areas of Brooklyn Park and Severn to help reduce crime and ensure public safety. The Department of Health conducted 425 inspections in response to the 182 complaints within the CSAFE areas.

### ZIP Codes with Greatest Number of Housing Complaints, 2011



Data Source: Environmental Health Bureau, Anne Arundel County Department of Health.



## Family Health

The Anne Arundel County Department of Health helps to ensure families in the community have the knowledge and resources they need to live healthy lives. Two examples of this are the Women, Infants and Children (WIC) program and REACH (Residents Access to a Coalition of Health).

### Anne Arundel County WIC Program

WIC helps to teach families lifelong healthy skills by providing education on a variety of topics, including breastfeeding, physical activity, food safety, healthy weight, infant feeding and dietary guidelines as well as providing supplemental nutrition. WIC is also a critical connection for vulnerable families to health care resources and other community programs. From July 2010 to June 2010, WIC:

- ★ Served 6,900 children (0-5 years of age)
- ★ Served 2,300 pregnant and postpartum women
- ★ Provided 740 nutrition education classes
- ★ Had 17,500 total participant encounters



### Anne Arundel County REACH Program

REACH provides access to low-cost health services for uninsured Anne Arundel County residents between the ages of 19-64 with limited income. REACH has developed a local health care network and coordinates client needs for both routine and specialized medical care. REACH currently has:



- ★ 1,560 County residents enrolled
- ★ 251 primary care doctors and 626 specialists serving in the REACH network
- ★ 8,303 County residents served since 1991
- ★ \$22.5 million in donated medical care provided to program participants by the REACH Medical Provider Network since 1991

Data Source: Family Health Bureau, Anne Arundel County Department of Health.

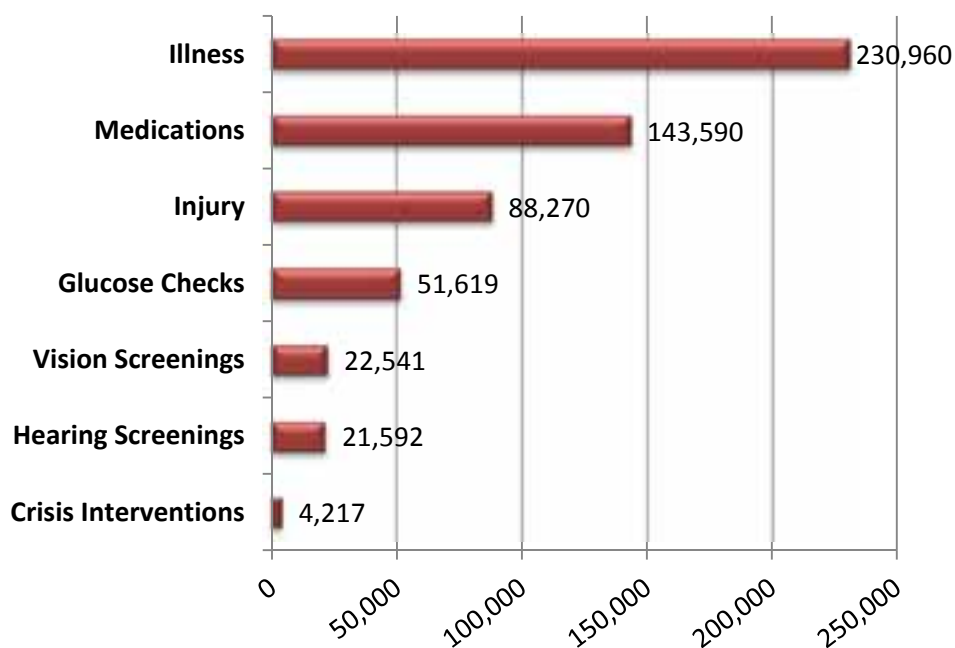


## School Health

In the 2010-2011 school year, 77,093 students were enrolled in Anne Arundel County Public Schools. Each of the 120 public schools in the County has a health room staffed by the Department of Health. During this school year there were a total of 689,146 health room visits. The school health room staff were able to help return 92.3% of these students back to the classroom the same day to continue their education. In addition, children with chronic health conditions need special monitoring and services while attending school. The leading chronic health conditions during this school year were asthma (5,130 students), mental health disorders (2,770 students) and life-threatening allergies (2,003 students).



**Select Health Room Visits, 2010-2011 School Year**



Data Source: School Health Bureau, Anne Arundel County Department of Health



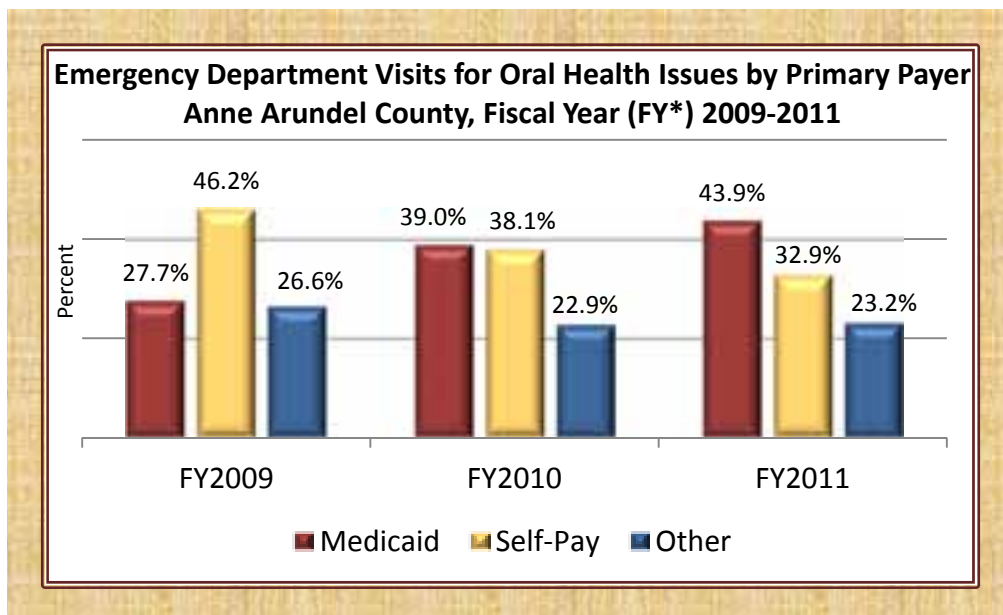
## Oral Health

Oral health is an issue across all age groups. Nationally, tooth decay is the leading chronic disease for children, and one-third of adults have untreated tooth decay. Approximately one-fourth of adults aged 60 years and older are missing all of their natural teeth. Many common diseases, such as heart disease, diabetes, cancer and HIV, are linked with oral health problems.



Oral health care can be costly and is often not included in health insurance plans. Many County residents continue to have unmet dental needs that result in emergency department (ED) visits for nontraumatic issues. In a three-year period from July 2008 through June 2011, over 11,000 ED visits were made by

County residents for oral health issues; approximately three-fourths of these visits were for people between the ages of 18 and 44 years. Most of these ED visits are made by residents who are enrolled in Medicaid or are most likely uninsured (self-pay).



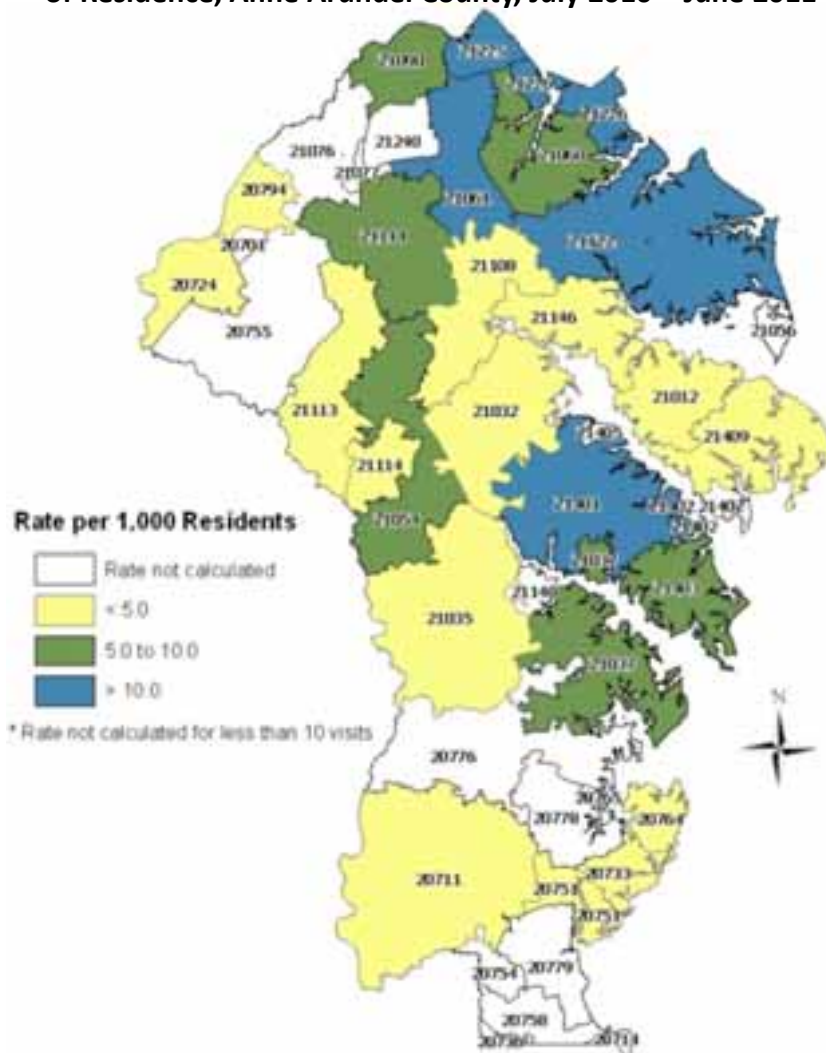
\*FY runs from July of the previous year through June of the year indicated.  
Data Source: CDC, Division of Oral Health; Anne Arundel County Department of Health Dental Program; MD Health Services Cost Review Commission.



# Substance Abuse

Each year, thousands of County residents use hospital emergency departments (ED) due to substance abuse.\* In a one-year period from July 2010 through June 2011, over 2,800 visits occurred, resulting in \$1.7 million in ED charges. However, this does not capture the high cost of substance abuse in our community, which includes lives lost, poor health, damaged relationships, loss of jobs and income, and imprisonment. Substance abuse may have a greater impact on some areas of the County based on the rate of ED visits by ZIP Code.

**Rate of Emergency Department Visits for Substance Use\* by ZIP Code of Residence, Anne Arundel County, July 2010 – June 2011**



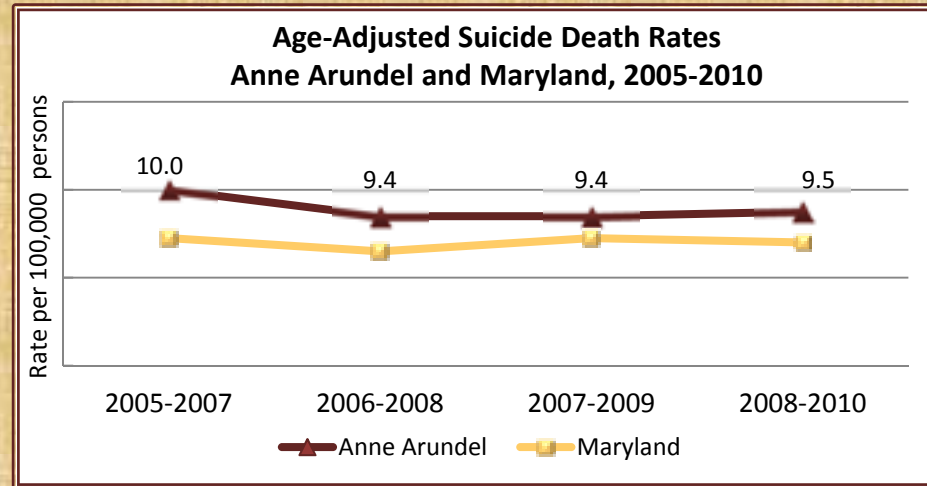
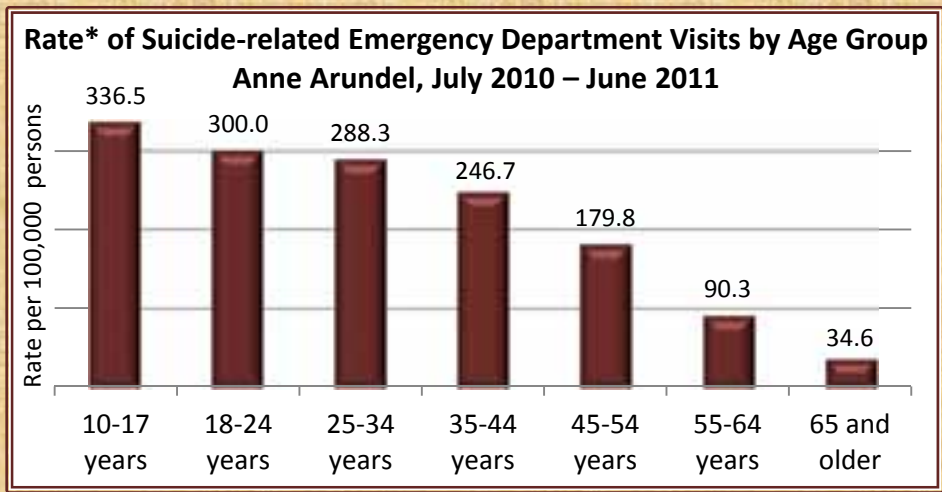
\*Includes alcohol, illegal drugs and nonmedical use of prescription drugs.  
Data Source: Rates calculated based on 2010 U.S. Census; MD Health Services Cost Review Commission.



# Suicide



Each year, around 50 Anne Arundel County residents end their lives through suicide. Risk factors for suicide include previous attempts, depression or other mental illness, alcohol or drug use, family history of suicide, physical illness and feeling alone. According to national figures, for every person that dies due to suicide there are over 10 people seen in the emergency department with self-inflicted injuries. Suicide not only affects those who attempt it, but also their families and friends.



\* Crude rate calculated based on 2010 U.S. Census.

Data Source: Maryland Vital Statistics Annual Report, Division of Health Statistics, Maryland DHMH; Injury Center, CDC; MD Health Services Cost Review Commission.



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The services and facilities of the Anne Arundel County Department of Health are available to all regardless of race, color, religion, political affiliation, national origin, age, sex, sexual orientation or disability.

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