Status of Health

May 2014
Overview and Data Sources

• Demographics - US Census Bureau
• Maternal and Child Health Statistics – Maryland Vital Records
• Morbidity and Mortality Data - MVR
• Maryland Cancer Registry
• Hospital Data – Health Services Cost Review Commission - GMH
• BRFSS DATA (Behavioral Risk Factor Surveillance System)
• SHIP DATA – DHMH

DATA SITES:
• Network of Care Site http://garrett.md.networkofcare.org/ph/
• 2013 Maryland Jurisdictional Comparison Report – Univ. of Wisconsin/RWJ
• Garretthealth.org
SHIP Priority Indicators for Garrett County

- Youth Tobacco Use
- Heart Disease Mortality
- Adult Influenza Vaccination Rates
- Adult Tobacco Use
- Child Obesity
- Adults Without Health Insurance
- Adult Obesity
- Life Expectancy
2013 SHIP Update – Additional Areas of Concern

• Teen Birth Rate – County 34.9 / 1000 teenage females vs. State Rate of 24.7 / 1000 teenage females (15-19 yrs. old)

• Adults with Health Insurance – County – 86% vs. State 88%

• Hospitalizations related to Alzheimer’s or other Dementia (per 100,000) – County - 266.2 vs. State - 202.9

• Adolescents with Wellness Check Last Year – County – 40.3% vs. State – 52.6%
Garrett County Demographics

Total Population –  
2001  29,747  
2012  29,850

- Males  14,806  (49.6%)  
- Females  15,044  (50.4%)  

- White  29,164  (97.7%)  
- Black or African American  328  (1.1%)  
- American Indian & Alaska Native  60  (0.2%)  
- Asian & Other Pacific Islander  119  (0.4%)  
- Hispanics  179  (0.6%)

Source: U.S. Census Bureau, Population Estimates Program
Demographics (cont.)

People of All Ages in Poverty – Garrett County (13.0%)
People of All Ages in Poverty – Maryland ( 9.4%)

- Persons under 18 years of age (G.C.) (21.1%)
- Persons 65 years old and over (G.C.) (18.6%)

Median Household Income (2008-2012) GC $45,354
Median Household Income (2008-2012) MD $72,999

Source: U.S. Census Bureau, Population Estimates Program
Maternity and Child Health Data For Garrett County and Maryland
Comparison of County Birth Rates with the Maryland State Average, 2012.

Source: Maryland Vital Statistics Administration
Number of Garrett County Births

Source: Maryland Vital Statistics Administration

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<thead>
<tr>
<th>Year</th>
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<td>2011</td>
<td>287</td>
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<td>2012</td>
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</table>
Births to Adolescents, All Races
Rates per 1,000 Females, Ages 15-17

Source: Maryland Vital Statistics Administration
Comparison of Percentages of Low Birth Weight Births* with the Maryland State Average, 2012.

Percentage of low birth weight births
- Rate significantly lower than Maryland average
- Rate not significantly different from Maryland average
- Rate significantly higher than Maryland average

Comparison of Percentages of Low Birth Weight Births* with the Maryland State Average, 2011.

Source: Maryland Vital Statistics Administration
Comparison of Percentages of Births to Unmarried Women* with the Maryland State Average, 2012.

Comparison of Percentages of Births to Unmarried Women* with the Maryland State Average, 2011.

*Percentages are shown in Table 15.

Source: Maryland Vital Statistics Administration
Percentage of Births Delivered by C-Section

Source: Maryland Vital Statistics Administration
Infant Mortality Rate
Per 1,000 Live Births

Source: Maryland Vital Statistics Administration
<table>
<thead>
<tr>
<th>RANK</th>
<th>JURISDICTION</th>
<th>% ADULT FEMALE SMOKING DURING PREGNANCY</th>
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<tr>
<td>3</td>
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<tr>
<td>4</td>
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<tr>
<td>5</td>
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<tr>
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<td>Washington</td>
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<tr>
<td>7</td>
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<td>Wicomico</td>
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<td>14</td>
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<tr>
<td>19</td>
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<td>22</td>
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<td>24</td>
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<td>1.6%</td>
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Source: Unpublished data from 2011 Maryland Birth Certificates, Maryland Vital Statistics Administration
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<th>% ADULT FEMALE SMOKING DURING MEDICAID PRENATAL ASSESSMENTS</th>
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<td>13</td>
<td>Somerset</td>
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<tr>
<td>14</td>
<td>Talbot</td>
<td>21.0%</td>
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<td>15</td>
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<td>20.3%</td>
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<tr>
<td>16</td>
<td>St. Mary’s</td>
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<td>Howard</td>
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<tr>
<td>23</td>
<td>Prince George’s</td>
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<td>24</td>
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Source: Unpublished data from prenatal assessments conducted as part of the Maryland Medicaid Program.
Mortality In Garrett County and Maryland
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<td>82.5</td>
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<td>Queen Anne's</td>
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<td>Howard</td>
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<tr>
<td>Montgomery</td>
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Comparison of County Age-adjusted Death Rates* for All Causes with the Maryland State Average, 2010-2012.

Source: Maryland Vital Statistics Administration
Comparison of County Age-adjusted Death Rate for All Causes for MD, 2010-2012

Source: Maryland Vital Statistics

Garrett County Baseline 2007-2009
Comparison of County Age-adjusted Death Rates* for Heart Disease with the Maryland State Average, 2010-2012.

Source: Maryland Vital Statistics Administration
Age-adjusted Death Rates Per 100,000 Population
Diseases of the Heart –2010-2012

Source: Maryland Vital Statistics / DHMH
Comparison of County Age-adjusted Death Rates* for Cerebrovascular Diseases with the Maryland State Average, 2010-2012.

Average age-adjusted death rate per 100,000 population
- Rate significantly lower than Maryland average
- Rate not significantly different from Maryland average
- Rate significantly higher than Maryland average

Source: Maryland Vital Statistics Administration
Comparison of County Age-adjusted Death Rates* for Malignant Neoplasms with the Maryland State Average, 2010-2012.

*Source: Maryland Vital Statistics Administration
Comparison of County Age-adjusted Death Rates* for Alzheimer's Disease with the Maryland State Average, 2010-2012.

Source: Maryland Vital Statistics Administration
Comparison of County Age-adjusted Death Rates* for Accidents with the Maryland State Average, 2010-2012.

Source: Maryland Vital Statistics Administration
Maryland All Cancer Sites Incidence Rates by Geographical Area: Comparison to U.S. Rate, 2006-2010

Legend
- Dark gray: >25% above U.S. rate
- Medium gray: 10-25% above U.S. rate
- Light gray: Between 10% below and 10% above U.S. rate
- Pale gray: 10-25% below U.S. rate
- Light gray: >25% below U.S. rate

Rates are age-adjusted to the 2000 U.S. standard population and are per 100,000 population.

Maryland area-specific rates with 95% confidence intervals are presented in Appendix F, Table 1.

U.S. all cancer sites incidence rate, 2006-2010: 463.0/100,000

Maryland all cancer sites incidence rate, 2006-2010: 449.2/100,000

Source: Maryland Cancer Registry
U.S. SEER, SEER*Stat
Maryland All Cancer Sites Mortality Rates by Geographical Area: Comparison to U.S. Rate, 2006-2010

Legend

- >25% above U.S. rate
- 10-25% above U.S. rate
- Between 10% below and 10% above U.S. rate
- 10-25% below U.S. rate
- >25% below U.S. rate

Rates are age-adjusted to the 2000 U.S. standard population and are per 100,000 population.

Maryland area-specific rates with 95% confidence intervals are presented in Appendix F, Table 9.

U.S. all cancer sites mortality rate, 2006-2010: 176.4/100,000

Maryland all cancer sites mortality rate, 2006-2010: 179.0/100,000

Source: MD mortality rates from Maryland Vital Statistics Administration from MATCH, 2006-2010
U.S. rate from SEER, Cancer Statistics Review, 2006-2010
Causes of Death, 2009
Garrett County

Causes

- Heart Disease: 31%
- Malignant Neoplasms: 23%
- Diabetes: 10%
- Alzheimers: 8%
- Cerebro Vascular: 7%
- Chron. Lower Resp. Disease: 6%
- Accidents: 4%
- Suicide: 4%
- Hypertension/Renal: 4%
- Septicemia: 3%
- Flu. -Pneumonia: 1%
- All Others: 1%

Source: MD Vital Statistics
Causes of Death, 2011
Garrett County

Causes

- Heart Disease: 25%
- Malignant Neoplasms: 31%
- Diabetes: 3%
- Alzheimers: 8%
- Cerebro Vascular: 8%
- Chron. Lower Resp. Disease: 10%
- Accidents: 23%
- Homicide: 5%
- Hypertension/Renal: 2%
- Septicemia: 2%
- Flu. -Pneumonia: 1%
- All Others: 5%

Source: MD Vital Statistics
Causes of Death, 2012
Garrett County

- Heart Disease: 38%
- Malignant Neoplasms: 25%
- Diabetes: 9%
- Alzheimers: 8%
- Cerebro Vascular: 5%
- Chron. Lower Resp. Disease: 5%
- Accidents: 0%
- Homicide: 2%
- Hypertension/Renal: 2%
- Septicemia: 1%
- Flu. -Pneumonia: 2%
- Suicide: 1%

Source: MD Vital Statistics
Childhood Obesity

2010

Data Source: Maryland Youth Tobacco Survey (MYTS)
Cancer Incidence and Mortality by Type
Maryland Colorectal Cancer Incidence Rates by Geographical Area: Comparison to U.S. Rate, 2006-2010

Legend

- Dark gray: >25% above U.S. rate
- Light gray: 10-25% above U.S. rate
- Medium gray: Between 10% below and 10% above U.S. rate
- Light gray: 10-25% below U.S. rate
- White: >25% below U.S. rate

Rates are age-adjusted to the 2000 U.S. standard population and are per 100,000 population.

Maryland area-specific rates with 95% confidence intervals are presented in Appendix F, Table 3.

U.S. colorectal cancer incidence rate, 2006-2010: 45.0/100,000

Maryland colorectal cancer incidence rate, 2006-2010: 40.1/100,000

Source: Maryland Cancer Registry
U.S. SEER, SEER*Stat
Maryland Colorectal Cancer Mortality Rates by Geographical Area: Comparison to U.S. Rate, 2006-2010

Legend
- >25% above U.S. rate
- 10-25% above U.S. rate
- Between 10% below and 10% above U.S. rate
- 10-25% below U.S. rate
- >25% below U.S. rate

Rates are age-adjusted to the 2000 U.S. standard population and are per 100,000 population.

Maryland area-specific rates with 95% confidence intervals are presented in Appendix F, Table 11.

U.S. colorectal cancer mortality rate, 2006-2010: 16.4/100,000

Maryland colorectal cancer mortality rate, 2006-2010: 16.8/100,000

Source: MD mortality rates from Maryland Vital Statistics Administration, 2006-2010
U.S. rate from SEER, Cancer Statistics Review, 2006-2010
Maryland Female Breast Cancer Incidence Rates by Geographical Area: Comparison to U.S. Rate, 2006-2010

Legend
- >25% above U.S. rate
- 10-25% above U.S. rate
- Between 10% below and 10% above U.S. rate
- 10-25% below U.S. rate
- >25% below U.S. rate

Rates are age-adjusted to the 2000 U.S. standard population and are per 100,000 women.

Maryland area-specific rates with 95% confidence intervals are presented in Appendix F, Table 4.

U.S. female breast cancer incidence rate, 2006-2010: 123.8/100,000

Maryland female breast cancer incidence rate, 2006-2010: 125.1/100,000

Source: Maryland Cancer Registry
U.S. SEER, SEER*Stat
Maryland Female Breast Cancer Mortality Rates by Geographical Area: Comparison to U.S. Rate, 2006-2010

Legend
- >25% above U.S. rate
- 10-25% above U.S. rate
- Between 10% below and 10% above U.S. rate
- 10-25% below U.S. rate
- >25% below U.S. rate

Rates are age-adjusted to the 2000 U.S. standard population and are per 100,000 women.

Maryland area-specific rates with 95% confidence intervals are presented in Appendix F, Table 12.

U.S. female breast cancer mortality rate, 2006-2010: 22.5/100,000

Maryland female breast cancer mortality rate, 2006-2010: 24.5/100,000

Source: MD mortality rates from Maryland Vital Statistics Administration from MATCH, 2006-2010
U.S. rate from SEER, Cancer Statistics Review, 2006-2010

Note: Regional rates are presented when one or more counties within the region have a suppressed rate.
All Cancer Sites Age-Adjusted Incidence Rates
Per 100,000 population
by Jurisdiction, Maryland, 2006-2010

Source: Maryland Cancer Registry
All Cancer Sites Age-Adjusted Mortality Rates
Per 100,000 population
by Jurisdiction, Maryland, 2006-2010

Source: Maryland Vital Statistics Administration from MATCH

- Garrett County Baseline
- Maryland SHIP Target and Garrett County Health Planning Goal 2012-2015
Age-adjusted Death Rates Per 100,000 Population
Malignant Neoplasms, 2010-2012

Source: Maryland Vital Statistics / DHMH
All Cancer Sites Age-Adjusted Mortality Rates
Per 100,000 population
by Jurisdiction, Maryland, 2006-2010

Mortality Rates

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<tr>
<th>Jurisdiction</th>
<th>Mortality Rate</th>
<th>95% Confidence Interval</th>
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<td>Washington</td>
<td>18.8</td>
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<td>Anne Arundel</td>
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<td>6.5</td>
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<tr>
<td>Montgomery</td>
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</table>

Mortality Rates

95% Confidence Interval
Lung and Bronchus Age-Adjusted Incidence Rates
Per 100,000 population
by Jurisdiction, Maryland, 2006-2010

Source: Maryland Cancer Registry
Lung and Bronchus Age-Adjusted Mortality Rates
Per 100,000 population
by Jurisdiction, Maryland, 2006-2010

Source: Maryland Vital Statistics Administration from MATCH
Colorectal Cancer Age-Adjusted Incidence Rates
Per 100,000 population
by Jurisdiction, Maryland, 2006-2010

Source: Maryland Cancer Registry
Colorectal Cancer Age-Adjusted Mortality Rates
Per 100,000 population
by Jurisdiction, Maryland, 2006-2010

Source: Maryland Vital Statistics Administration from MATCH
Female Breast Cancer Age-Adjusted Incidence Rates
Per 100,000 population
by Jurisdiction, Maryland, 2006-2010

Source: Maryland Cancer Registry
Female Breast Cancer Age-Adjusted Mortality Rates
Per 100,000 population
by Jurisdiction, Maryland, 2006-2010

Source: Maryland Vital Statistics Administration from MATCH
Female Breast Cancer Age-Adjusted Mortality Rates
Per 100,000 population
by Jurisdiction, Maryland, 2006-2010

Mortality Rates

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<th>Upper CI</th>
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<td>Washington</td>
<td>8.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anne Arundel</td>
<td>5.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Montgomery</td>
<td>5</td>
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</tbody>
</table>

95% Confidence Interval

- Garrett: 24.2
- Washington: 8.6
- Anne Arundel: 5.2
- Montgomery: 5
Prostate Cancer Age-Adjusted Incidence Rates
Per 100,000 population
by Jurisdiction, Maryland, 2006-2010

Source: Maryland Cancer Registry
Melanoma Age-Adjusted Incidence Rates
Per 100,000 population
by Jurisdiction, Maryland, 2006-2010

Source: Maryland Cancer Registry
Hospital Data
Prevention Quality Indicators (PQIs)

• **PQIs** are a set of measures that can be used with hospital inpatient discharge data to identify quality of care for “preventable hospitalizations."

• **PQIs** are intended to reflect issues of access to, and quality of, primary care in a given geographic area.
List of PQIs

• Diabetes, short-term complications
• Diabetes, long-term complications
• Chronic Obstructive Pulmonary Disease
• Hypertension
• Congestive Heart Failure
• Dehydration

• Bacterial Pneumonia
• Urinary Infections
• Angina without Procedure
• Uncontrolled Diabetes
• Adult Asthma
• Lower Extremity Amputations among Patients with Diabetes
Garrett County trends in preventable hospitalization rates, 2008-2012

Rate per 100,000 Population

Overall
Acute
Chronic
State and county trends in preventable hospitalization rates, 2008-2012

*Bacterial Pneumonia*

![Graph showing trends in hospitalization rates for Bacterial Pneumonia in Maryland and Garrett county from 2008 to 2012.](image-url)
Maps for preventable hospitalizations
Garrett County, 2008-2012

Rate per 100,000 Population
- Green: 300.00 - 1,000.79
- Light Green: 1,000.80 - 1,234.84
- Yellow: 1,234.85 - 1,416.79
- Orange: 1,416.80 - 1,787.56
- Red: 1,787.57 - 2,435.89

(The state average = 1,280)
Injury-related ED Visits
Garrett County, 2008-2012

Source: Garrett County Memorial Hospital
Substance Abuse
### Opioid-Related Admission Rate > Age 14

<table>
<thead>
<tr>
<th>County</th>
<th>State Rate FY 2010</th>
<th>13.8/10K</th>
<th>State Rate FY 2011</th>
<th>15.8/10K</th>
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<tbody>
<tr>
<td>Calvert</td>
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<td>Allegany</td>
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<td>Cecil</td>
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<tr>
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<td></td>
<td>Somerset</td>
<td>27.5</td>
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</tbody>
</table>
What About Treatment in Maryland?

Prescription Opiate-Related Treatment Admissions Fiscal Year 2011

Rates per 100,000 population over age 14
By County
- 17.17 - 107.13
- 107.14 - 215.88
- 215.89 - 346.88
- 346.89 - 502.08
- 502.09 - 736.22

State Total = 158.56

Map prepared for:
DHMH/Alcohol and Drug Abuse Administration
January 24, 2011

Classification Method: Jenks Natural Breaks using five (5) classes.

Data Sources:
- Treatment data—State of Maryland Automated Record Tracking (SMART) system, Fiscal Year 2011.
- County boundaries—ESRI, 2006.
Outlook & Outcomes - FY 2012 Garrett County Data

TABLE 1: Patient Residence for Admission to State-Supported Alcohol and Drug Abuse Treatment Programs

<table>
<thead>
<tr>
<th>Year</th>
<th>Garrett</th>
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<tr>
<td>FY2009</td>
<td>354</td>
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<tr>
<td>FY2010</td>
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</tr>
<tr>
<td>FY2011</td>
<td>367</td>
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<tr>
<td>FY2012</td>
<td>378</td>
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</tbody>
</table>

Source: Maryland DMHM Data & Statistics
Figure 5. Total Number of Drug Intoxication Deaths by Selected Substances\textsuperscript{1}, Maryland, 2007-2012.
Crude Death Rates for Total Intoxication Deaths by Place of Residence, Maryland, 2007-2012.
TOTAL NUMBER OF DRUG AND ALCOHOL-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, 2007-2012 AND YTD 2013 THROUGH SEPTEMBER

Source: Maryland DHMH Data & Statistics
A script gives patients specific language that they can use with their family to talk about overdose and develop an action plan, similar to a fire evacuation plan.
Next Planning Steps

Continue to Review Data – YRBS, BRFS, Hospital Admission and ER Data, GIS Based Groundwater Report for Garrett County
Review Progress on SHIP Indicators
Review Progress on Local Community Health Plan
Begin Work on Comprehensive Community Need Assessment
Update Plan – 2015 - 2018