Status of Health in Montgomery County, FY2018

Travis A. Gayles, MD, PhD  
Health Officer  
Chief, Public Health Services  
Montgomery County Department of Health and Human Services
Overview

Global, local challenges
Performance of the program
Areas of innovation
  Academic partnerships
  Grant opportunities
  Data utilization
    County health report
Outlook for 2018-2019
Thank you...

Director’s Office— Uma Ahluwalia
Communicable Disease and Epidemiology— Cindy Edwards
School Health Services— Joan Glick
Health Prevention and Promotion— Helen Lettlow
Licensing and Regulatory Services— Clark Biel

Planning and Epidemiology— Chunfu Liu
Community Based Healthcenters/Montgomery Cares— Rebecca Smith, Ellen Brown, Tara Clemmons
Healthy Montgomery— Karen Thompkins, Rita Deng
Administrative and Budgeting— Charlene Hicks, Stella Sharif, Ellen Segal
The landscape...

Funding
- Federal, state, local levels
- Access to health insurance, health services
- Eligible, but affordable?
- Access to specialty care
- Tuberculosis program funding

Elections

Our job
Focus on:
- ROI
- quality improvement
- increased collaboration
Core functions...by the numbers

Outbreak Prevention
103 reportable diseases
40 outbreak investigations

Chronic Disease Prevention and Management
291 Pap Smears (2);
203 colonoscopies (2);
870 mammograms (11)

School Health Services
>65000 student visits during FY18

Food/Environmental/Facility Safety
~40 STR registrations
>1500 pool inspections
5671 food safety inspections

Health care delivery
>16,000 immunizations provided to kids
>10,000 dental visits
Montgomery Cares >65,000 visits, over 24,500 patients enrolled
MPP >1500 pregnant women served

Vital Records
>16,000 birth certificates
>12,000 death certificates
Accomplishments

Accreditation application submitted to PHAB, site visit pending

Initiation of Short Term Rental Licensing

Personnel
  Dental Director
  Food Security Manager

Successful grant opportunities
  Babies Born Healthy
  Healthy Montgomery/RWJF All In Project

Academic Partnerships
  University of Maryland School of Public Health
  George Washington University School of Public Health
  University of Maryland Campuses at Shady Grove
Babies Born Healthy

State funded programming to expand outreach to high risk mothers to curb maternal and infant morbidity, mortality

• Identify ‘high risk, high need zip codes’ for enhanced outreach
• Identify best practices, scale to entire county
• Coordinate county-wide maternal and infant mortality efforts
• Reframe need based on morbidity
We supported the first-ever MCPS-MCCPTA Mental Health and Wellness Forum that was attended by 200+ parents and students.
Proposed Montgomery County Community Health Needs Assessment Cycle

- **May 2018**: Community Health Improvement Plan Annual Progress Report Released
- **Sept 2018**: Convene Community Health Forums - Develop data inventory for data sharing, indicators update; identify community assets and resources
- **Jan 2019**: Collect data and information collaboratively to capture community characteristics; assess data; Community Grand Rounds; invite partners to provide various perspectives in analysis of data; monitor indicators
- **May 2019**: Present quantitative and qualitative data and findings to the community; compare and monitor indicators with state and national benchmarks; Community Grand Rounds continues; Community Health Improvement Plan Annual Report Release
- **May 2020**: Continue gathering of community input in preliminary findings of needs assessment; Community Grand Rounds continues; invite partners to provide various perspectives in analysis of data; monitor indicators; Community Health Improvement Plan updated through consensus process
- **May 2021**: Use community health needs assessment information to impact policy, processes, programs and interventions
DASH CIC-START Enables More Communities to Go "All In" to Improve Health Through Data Sharing

*All In: Data for Community Health*, a learning network focused on transforming health through partnerships to share data, is actively working to help more communities make progress towards using multi-sector data to tackle community health challenges. In an effort to further support communities participating in *All In*, *Data Across Sectors for Health* (DASH) offered five new awards through CIC-START, a program that provides limited funds to help local leaders take meaningful

- **Montgomery County, MD: Envisioning Equity in Montgomery County, Maryland Using Data** is convening workshops with multi-sector stakeholders to develop indicators to address social and health inequities and recommend requirements for a new data sharing hub. *Led by Montgomery County Department of Health and Human Services.*
Why use data?
What data to use?
How to use data?
When to use data?
Where to use data?
Report on Infectious Disease

Supplemental report to ‘Health in Montgomery County 2008-2016’ to more focus on infectious diseases in the County and DHHS’s programs

Disease burden in the County 2012-2016

DHHS’s programs and services, and clients served
Report on Infectious Disease

Overview of communicable disease surveillance and reportable diseases

County population

Infectious Disease in the County

Program areas:
- General Disease Control
- Tuberculosis Control
- HIV/STD
- Immunization
- Public Health Preparedness and Response

Technical notes
Reportable conditions
Eligible Population Served and Chronic Disease Management

In Montgomery Cares

Sara Safi
Chunfu Liu
School Wellness Center Cluster Analysis

Montgomery County by Zip Code

Montgomery County by High School Clusters
“The annual County Health Rankings measure vital health factors [...] revealing [a] snapshot of how health is influenced by where we live, learn, work and play. They [also] provide a starting point for change in communities.”
Even within a county, there can be substantial variation in health factors and outcomes.

Most surveillance systems don’t collect zip-code level data.

Statisticians created a new algorithm using alternative data sources to rank zip codes using a framework that was still true to the original County Health Rankings algorithm.

Figure 1. Subcounty Variation in Health Factors and Outcomes in St. Louis City and St. Louis County, Missouri
Modified Algorithm

**Health Factors**
- **Health Outcomes**
  - Length of life
    - Under 75 mortality rate
    - Years of productive life lost
  - Quality of life
    - Inpatient hospitalizations
    - Emergency department visits
    - Mental health hospitalization
    - Low birth weight
  - Health behaviors
    - Sexually transmitted infection rate
    - Teen birth rate
  - Clinical care
    - Percent of population employed in healthcare
    - After hours emergency department visits
    - AHRQ prevention quality indicator (PQI) score
  - Socioeconomic factors
    - Population with less than a HS education
    - Unemployment rate
    - Childhood poverty rate
    - Small-area socioeconomic deprivation index
    - Median Household income
  - Physical environment
    - Violent crime rate
    - Injury death rate
Preliminary Results

Montgomery County Years of Productive Life Lost Per 100,000 People by Zip Code

- **Range:** 6 – 41,285
- **First Ranked:** 20707 (Laurel, MD)
- **Last Ranked:** 20839 (Beallsville, MD)
- **Countywide:** 3,704
Preliminary Results

Montgomery County Percent of Live Births With Low Birth Weight (>2,500 g or >5 lbs, 8 oz) by Zip Code

Range: 0 – 27.7%
First Ranked: Many tied at 0%
Last Ranked: 20868 (Spencerville, MD)
Countywide: 7.3%
Preliminary Results

First Ranked: Many tied at 0
Last Ranked: 20877 (Gaithersburg, MD)
Countywide: 11.8
Preliminary Results

Montgomery County Median Household Income (USD) By Zip Code

Q1: 19,402 - 83,853
Q2: 83,854 - 113,542
Q3: 113,543 - 129,858
Q4: 129,859 - 195,114

First Ranked: 20854 (Potomac, MD)
Last Ranked: 20899 (Gaithersburg, MD)
Countywide: $99,497
Preliminary Results

Montgomery County Deaths Caused By Injury Per 100,000 People By Zip Code

First Ranked: 3 zip codes tied at 0
Last Ranked: 20837 (Poolesville, MD)
Countywide: 34.8
County’s First Status of Health Report

http://www.montgomerycountymd.gov/HHSS/Resources/Files/Reports/PopHealthReportFINAL.pdf

OR

Search for “population health report” in the search bar (include quotation marks)
About the Report

Covers all major health topics

Comprehensive and Centralized Health Statistics at One Location

Target Various Level of Audiences

Trends over Time, Population Subgroups, and Geographic Areas

Comparisons with MD and U.S., and Benchmarking with Healthy People 2020

Population Health Surveillance, Program Effectiveness Evaluation, and Planning and Resource Allocation
Health Topics

Demographics, Social Determinants, and Health Care Access
Vital Statistics
Maternal and Infant Health
Chronic Diseases
Infectious Diseases
Behavioral Health
Injuries
Environmental Health
# Summary of Mortality

Table 1. Leading Cause of Deaths by Year, Montgomery County, 2014-16

<table>
<thead>
<tr>
<th>Cause</th>
<th>2014</th>
<th>Rank</th>
<th>2015</th>
<th>Rank</th>
<th>2016</th>
<th>Rank</th>
<th>2014-16</th>
<th>Rank</th>
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</thead>
<tbody>
<tr>
<td>Cancer</td>
<td>23.6</td>
<td>1</td>
<td>23.8</td>
<td>1</td>
<td>23.5</td>
<td>1</td>
<td>4,146 (23.7)</td>
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<tr>
<td>Heart Disease</td>
<td>22.9</td>
<td>2</td>
<td>22.3</td>
<td>2</td>
<td>22.0</td>
<td>2</td>
<td>3,925 (22.4)</td>
<td>2</td>
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<tr>
<td>Cerebrovascular Disease</td>
<td>5.1</td>
<td>3</td>
<td>4.9</td>
<td>3</td>
<td>5.1</td>
<td>3</td>
<td>881 (5.0)</td>
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<tr>
<td>Accident</td>
<td>3.5</td>
<td>4</td>
<td>3.5</td>
<td>4</td>
<td>3.6</td>
<td>4</td>
<td>615 (3.5)</td>
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<tr>
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<td>3.4</td>
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<td>2.9</td>
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<td>2.8</td>
<td>6</td>
<td>481 (2.7)</td>
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<tr>
<td>Influenza &amp; Pneumonia</td>
<td>2.8</td>
<td>6</td>
<td>2.8</td>
<td>7</td>
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<td>7</td>
<td>471 (2.7)</td>
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<td>2.3</td>
<td>9</td>
<td>2.4</td>
<td>7</td>
<td>416 (2.4)</td>
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<td>2.5</td>
<td>8</td>
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<td>9</td>
<td>409 (2.3)</td>
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<td>1.9</td>
<td>10</td>
<td>1.6</td>
<td>10</td>
<td>291 (1.7)</td>
<td>10</td>
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<tr>
<td>All Other Causes</td>
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<td>29.7</td>
<td>31.4</td>
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<td></td>
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<td>30.3</td>
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## Summary of Mortality

<table>
<thead>
<tr>
<th>Cause</th>
<th>NH-White</th>
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<th>NH-Black</th>
<th>Rank</th>
<th>Asian/PI</th>
<th>Rank</th>
<th>Hispanic</th>
<th>Rank</th>
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</thead>
<tbody>
<tr>
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<td>24.7</td>
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<td>29.4</td>
<td>1</td>
<td>24.1</td>
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<tr>
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<td>24.0</td>
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<td>2</td>
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<td>6.9</td>
<td>3</td>
<td>5.0</td>
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<tr>
<td>Accident</td>
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<td>8.3</td>
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<td>1.7</td>
<td>7</td>
<td>1.8</td>
<td>6</td>
<td>2.3</td>
<td>5</td>
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<tr>
<td>Nephritis</td>
<td>1.4</td>
<td>7</td>
<td>2.6</td>
<td>6</td>
<td>1.9</td>
<td>5</td>
<td>1.6</td>
<td>6</td>
</tr>
<tr>
<td>Diabetes Mellitus</td>
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<td>0.9</td>
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<td>0.3</td>
<td>8</td>
<td>0.7</td>
<td>8</td>
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<td>Influenza &amp; Pneumonia</td>
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<td>9</td>
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<td>9</td>
<td>0.1</td>
<td>9</td>
<td>0.1</td>
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* based on list of leading causes for overall population only
## Summary of Hospitalization

<table>
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<tr>
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<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2014-16</th>
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<tr>
<td></td>
<td>%</td>
<td>Rank</td>
<td>%</td>
<td>Rank</td>
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<tr>
<td>Injuries</td>
<td>18.5</td>
<td>1</td>
<td>15.2</td>
<td>1</td>
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<tr>
<td>Heart Disease</td>
<td>12.8</td>
<td>2</td>
<td>12.9</td>
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<tr>
<td>Mental Health</td>
<td>5.8</td>
<td>3</td>
<td>6.3</td>
<td>3</td>
</tr>
<tr>
<td>Cerebrovascular Disease</td>
<td>3.9</td>
<td>4</td>
<td>3.6</td>
<td>4</td>
</tr>
<tr>
<td>Diabetes Mellitus</td>
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<td>5</td>
<td>3.4</td>
<td>5</td>
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<tr>
<td>Cancer</td>
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<td>6</td>
<td>2.9</td>
<td>6</td>
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<tr>
<td>Chronic Lower Respiratory Disease</td>
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<td>7</td>
<td>2.3</td>
<td>7</td>
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<tr>
<td>Substance Abuse</td>
<td>1.7</td>
<td>8</td>
<td>1.7</td>
<td>8</td>
</tr>
<tr>
<td>Suicide</td>
<td>0.6</td>
<td>9</td>
<td>0.5</td>
<td>9</td>
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<tr>
<td>All Other Causes</td>
<td>47.9</td>
<td>9</td>
<td>51.2</td>
<td>9</td>
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</tbody>
</table>
# Summary of Hospitalization

## Table 7. Leading Cause of Hospitalization* by Race/Ethnicity, Montgomery County, 2014-16

<table>
<thead>
<tr>
<th></th>
<th>NH-White</th>
<th></th>
<th>NH-Black</th>
<th></th>
<th>Asian/PI</th>
<th></th>
<th>Hispanic</th>
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<tbody>
<tr>
<td></td>
<td>%</td>
<td>Rank</td>
<td>%</td>
<td>Rank</td>
<td>%</td>
<td>Rank</td>
<td>%</td>
<td>Rank</td>
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<tr>
<td>Injuries</td>
<td>17.7</td>
<td>1</td>
<td>11.7</td>
<td>2</td>
<td>10.7</td>
<td>1</td>
<td>12.8</td>
<td>1</td>
</tr>
<tr>
<td>Heart Disease</td>
<td>15.8</td>
<td>2</td>
<td>13.3</td>
<td>1</td>
<td>10.5</td>
<td>2</td>
<td>11.5</td>
<td>2</td>
</tr>
<tr>
<td>Mental Health</td>
<td>6.4</td>
<td>3</td>
<td>6.5</td>
<td>3</td>
<td>2.9</td>
<td>5</td>
<td>5.6</td>
<td>3</td>
</tr>
<tr>
<td>Cerebrovascular Disease</td>
<td>4.0</td>
<td>4</td>
<td>3.7</td>
<td>5</td>
<td>3.7</td>
<td>4</td>
<td>3.4</td>
<td>5</td>
</tr>
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<td>Cancer</td>
<td>4.0</td>
<td>4</td>
<td>3.1</td>
<td>6</td>
<td>3.8</td>
<td>3</td>
<td>2.0</td>
<td>7</td>
</tr>
<tr>
<td>Diabetes Mellitus</td>
<td>2.7</td>
<td>6</td>
<td>3.9</td>
<td>4</td>
<td>2.7</td>
<td>6</td>
<td>4.2</td>
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<td>Chronic Lower Respiratory Disease</td>
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<td>2.6</td>
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<td>1.6</td>
<td>7</td>
<td>3.1</td>
<td>6</td>
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<tr>
<td>Substance Abuse</td>
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<td>1.1</td>
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<tr>
<td>Suicide</td>
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<td>0.4</td>
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<td>0.3</td>
<td>9</td>
<td>0.7</td>
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* based on list of leading causes for overall population only
# Social Determinants

## Table 14. Percent Families below Poverty Level by Race/Ethnicity, Montgomery County, Maryland, and U.S., 2012-16

<table>
<thead>
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<tr>
<td></td>
<td>MoCo</td>
<td>MoCo</td>
<td>MoCo</td>
<td>MoCo</td>
<td>MoCo</td>
</tr>
<tr>
<td>All</td>
<td>4.4</td>
<td>4.5</td>
<td>4.5</td>
<td>4.6</td>
<td>4.7</td>
</tr>
<tr>
<td>NH-White</td>
<td>1.9</td>
<td>2.0</td>
<td>1.8</td>
<td>1.8</td>
<td>1.8</td>
</tr>
<tr>
<td>NH-Black</td>
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<td>9.3</td>
<td>8.8</td>
<td>8.9</td>
</tr>
<tr>
<td>Asian/PI</td>
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<td>4.8</td>
<td>4.7</td>
<td>5.0</td>
</tr>
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<td>Hispanic</td>
<td>8.3</td>
<td>9.0</td>
<td>8.7</td>
<td>9.2</td>
<td>9.1</td>
</tr>
</tbody>
</table>
Map 1. Median Household Income by Census Tract, Montgomery County, 2016

- Median Household Income ($)
  - 44,442 - 80,739
  - 80,740 - 112,875
  - 112,876 - 164,112
  - 164,113 - 239,565
## Health Care Access

### Table 17. Percent Individuals without Health Insurance, Montgomery County, Maryland, and U.S., 2010-14

<table>
<thead>
<tr>
<th></th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
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<tbody>
<tr>
<td>MoCo</td>
<td>13%</td>
<td>13%</td>
<td>13%</td>
<td>12%</td>
<td>10%</td>
</tr>
<tr>
<td>MD</td>
<td>13%</td>
<td>12%</td>
<td>12%</td>
<td>12%</td>
<td>9%</td>
</tr>
<tr>
<td>US*</td>
<td>11%</td>
<td>11%</td>
<td>11%</td>
<td>11%</td>
<td>8%</td>
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</table>

* 10th percentile

### Table 18. Population/PCP Ratio, Montgomery County, Maryland, and U.S., 2010-14

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<thead>
<tr>
<th></th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
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<tbody>
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<td>MoCo</td>
<td>731</td>
<td>729</td>
<td>741</td>
<td>720</td>
<td>720</td>
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<tr>
<td>MD</td>
<td>1153</td>
<td>1134</td>
<td>1131</td>
<td>1120</td>
<td>1130</td>
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<tr>
<td>US*</td>
<td>1067</td>
<td>1051</td>
<td>1045</td>
<td>1040</td>
<td>1040</td>
</tr>
</tbody>
</table>

* 90th percentile

** Source: County Health Ranking [http://www.countyhealthrankings.org/]
Vital Statistics

Adolescent Birth Rates, Montgomery County, Maryland, and U.S., 2008-2016

Adolescent Birth Rates by Race/Ethnicity, Montgomery County, 2008-2016
Vital Statistics

Age-Adjusted Mortality Rates, All Causes, Montgomery County, Maryland, and U.S., 2008-2016

Age-Adjusted Mortality Rates by Race/Ethnicity, All Causes, Montgomery County, 2008-2016
Maternal and Infant Health

Percent Low Weight Births, Montgomery County, Maryland, and U.S., 2012-2016

Percent Low and Very Low Weight Births, Montgomery County, 2012-2016
Maternal and Infant Health

Infant Mortality Rates, Montgomery County, Maryland, and U.S., 2008-2016

Infant Mortality Rates by Race/Ethnicity, Montgomery County, 2012-2016
Infant Mortality Rates by Census Tract, Montgomery County, 2008-2016

County Rate = 5.2/1,000 births

County comparison (p = 0.2)
- No difference
- Significantly higher

IMR
- ≤ County rate
- > County rate
Chronic Diseases

Heart Disease Age-Adjusted Mortality Rates, Montgomery County, Maryland, and U.S., 2008-2016

Heart Disease Age-Adjusted Mortality Rates by Sex and Race/Ethnicity, Montgomery County, 2014-2016
Chronic Diseases

Diabetes Related ER Visit Age-Adjusted Rates, Montgomery County and Maryland, 2008-2016

Diabetes Related ER Visit Age-Adjusted Rates by Sex and Race/Ethnicity, Montgomery County, 2014-2016
7.4% (95% CI: 5.6-9.2) adults age 18+ ever told have diabetes in Montgomery County, as compared to 10.4% (95% CI: 9.5-11.3) in Maryland.
Chronic Diseases

Cancer Age-Adjusted Incidence Rates, Lung and Bronchus, Montgomery County, Maryland, and U.S., 2008-2014

Cancer Age-Adjusted Mortality Rates, Lung and Bronchus, Montgomery County, Maryland, and U.S., 2008-2014
10.5% (95% CI: 7.0-13.9) adults age 18+ are current smoker in Montgomery County, as compared to 15.1% (95% CI: 13.6-16.6) in Maryland.
Infectious Diseases

Tuberculosis Incidence Rates, Montgomery County, Maryland, and U.S., 2012-2016
Infectious Diseases

Tuberculosis Incidence Rates by Sex and Race/Ethnicity, Montgomery County, 2012-2016

- Hispanic: 6.0
- Asian/PI: 15.9
- NH-Black: 14.0
- NH-White: 11.6
- Female: 5.8
- Male: 6.7
- Overall: 6.3

Tuberculosis Incidence Rates by Age, Montgomery County, 2012-2016

- <5: 1.8
- 5-17: 1.5
- 18-34: 8.4
- 35-64: 6.5
- 65+: 10.0
Infectious Diseases

Gonorrhea Incidence Rates, Montgomery County, Maryland, and U.S., 2012-2016
Gonorrhea Incidence Rates by Sex and Race/Ethnicity, Montgomery County, 2012-2016

Gonorrhea Incidence Rates by Age, Montgomery County, 2012-2016
Gonorrhea Incidence Rates by Zip Code, Montgomery County, 2012-2016

County Rate = 43.9/100,000
Behavioral Health

Mental Health ER Visit Age-Adjusted Rates, Montgomery County and Maryland, 2008-2016
Behavioral Health

Mental Health Related ER Visit Age-Adjusted Rates by Sex and Race/Ethnicity, Montgomery County, 2014-2016

Mental Health Related ER Visit Rates by Age, Montgomery County, 2014-2016
Behavioral Health

Drug-induced Age-Adjusted Mortality Rate, Montgomery County, 2008-2016
Behavioral Health

Drug-induced Age-Adjusted Mortality Rates by Sex and Race/Ethnicity, Montgomery County, 2014-2016

Drug-induced Mortality Rates by Age, Montgomery County, 2014-2016
Drug-induced Age-Adjusted Mortality Rates by Census Tract, Montgomery County, 2014-2016

County Rate = 10.2/100,000
Injuries

Firearm Related Hospitalization Age-Adjusted Rates, Montgomery County and Maryland, 2008-2016
Injuries

Firearm Related Hospitalization Age-Adjusted Rates by Sex and Race/Ethnicity, Montgomery County, 2014-2016

Firearm Related Hospitalization Rates by Age, Montgomery County, 2014-2016
| Table 32. Children Age 0-6 Tested for Blood Lead Level, Montgomery County and Maryland, 2016 |
|---------------------------------------------------------|----------------|----------------|
| Children Tested | Age 0-6 | Total | MoCo | MD |
| No Tested | 22,392 | 118,619 |
| % Tested | 23.6 | 21.9 |
| Age 1-2 | Total | 31,877 | 182,177 |
| No Tested | 13,766 | 81,125 |
| % Tested | 43.2 | 44.5 |

Blood Lead Level 5-9 ug/dL

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<th>Age 0-6</th>
<th>No</th>
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<th>MD</th>
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<td>1.5</td>
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</table>

Blood Lead Level >=10 ug/dL

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<th>No</th>
<th>MoCo</th>
<th>MD</th>
</tr>
</thead>
<tbody>
<tr>
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Average Radon Measurements by Zip Code, Montgomery County, 2005-2016
Conclusion

Comparisons with MD and U.S., and Benchmarking with HP 2020
Trends over Time, Population Subgroups, and Geographic Areas
Population Health Surveillance, Program Effectiveness Evaluation, and Planning and Resource Allocation
Future Efforts