

Improving Population Health in Maryland

The State Health Improvement Process

HSCRC Data and Infrastructure Workgroup Meeting #2 Tuesday, March 4th, 2014

Raquel Samson, MPH, Deputy Director, HSIA
Kade Patanavanich, MD, Senior Data Analyst, HSIA
Kevin Liu, Quality Improvement Specialist, HSIA
Maryland Department of Health and Mental Hygiene
Health Systems and Infrastructure Administration (HSIA)

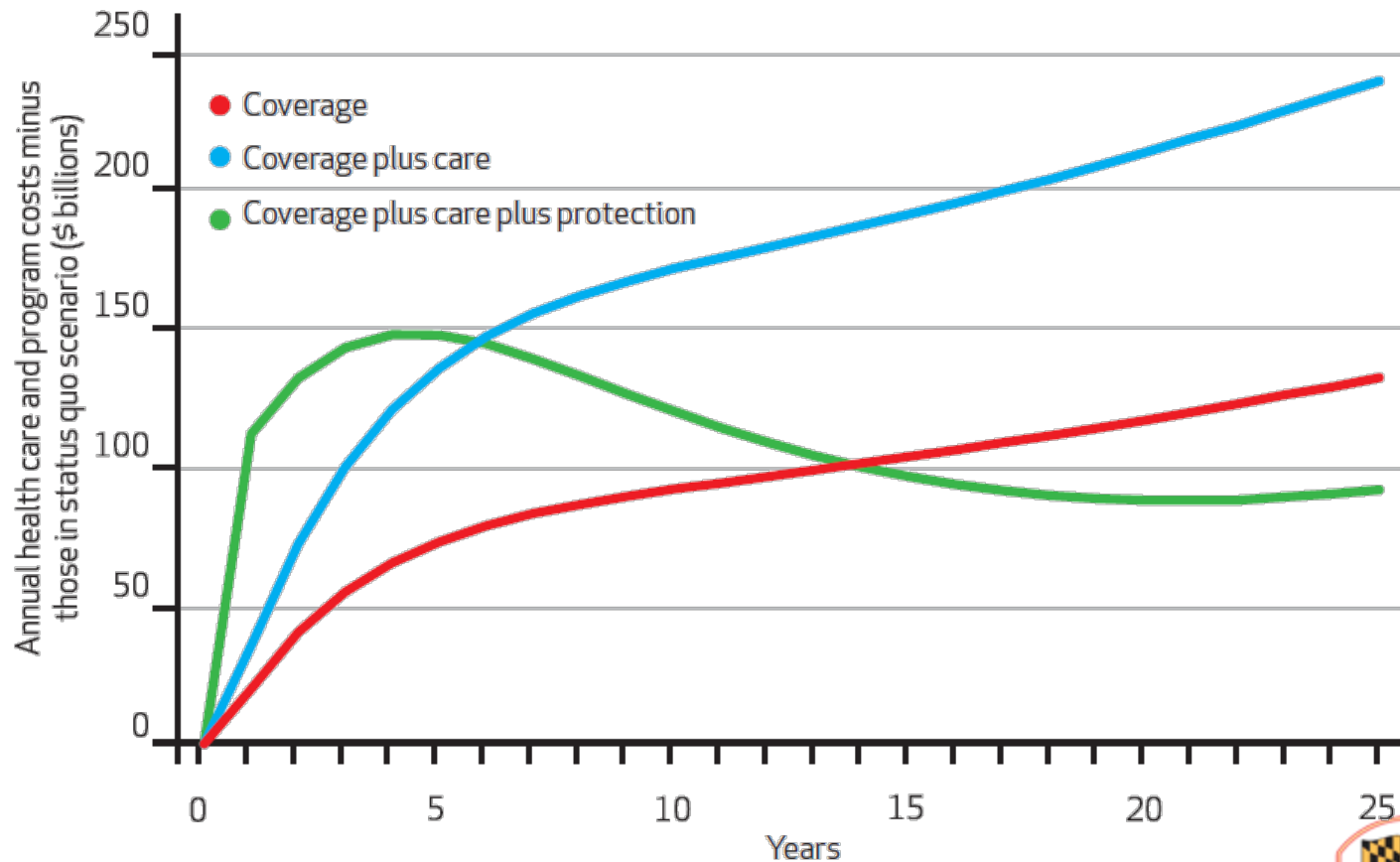
Presentation - State Health Improvement Process

- State Health Improvement Process (SHIP) Overview
- SHIP Vision Areas and Measures
- SHIP Measures: Population Health Data Sources for New Waiver

State Health Improvement Process Overview

Coverage + Care + Prevention

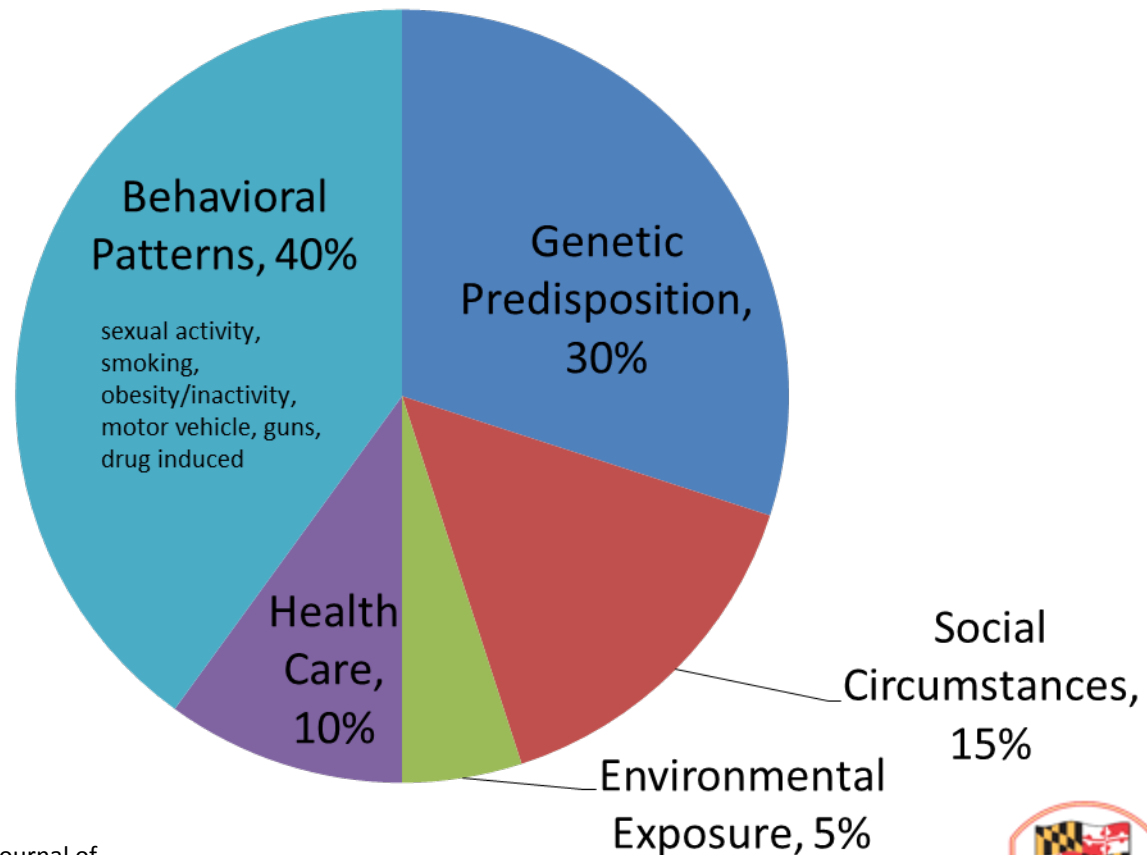
Annual Costs (Health Care And Program Spending), Three Layered Intervention Scenarios, Year 0 To Year 25



Milstein, et al. "Why Behavioral and Environmental Interventions are Needed to Improve Health at Lower Cost". *Health Affairs* 2011.

Non-Medical Determinants of Health

Integration of public health and the medical delivery system is required if our goal is to improve health of the individual and population.



Source: Steven A. Schroeder, New England Journal of Medicine, Sept 20, 2007

Strategic Approach

Five Key Components

Five Key Initiatives

- | | | | |
|---|--|---|----------------------------------|
| 1 | Promote access to care | ➔ | Planning for Access |
| 2 | Promote wellness & community health thru public health/medicine integration | ➔ | State Health Improvement Process |
| 3 | Address pockets of intense health disparities | ➔ | Health Enterprise Zones |
| 4 | Reform incentives for hospitals | ➔ | Modernizing the Waiver |
| 5 | Use mapping, hot-spotting, and data analysis to support robust primary care and community outreach | ➔ | The State Innovation Model |

Strategic Approach

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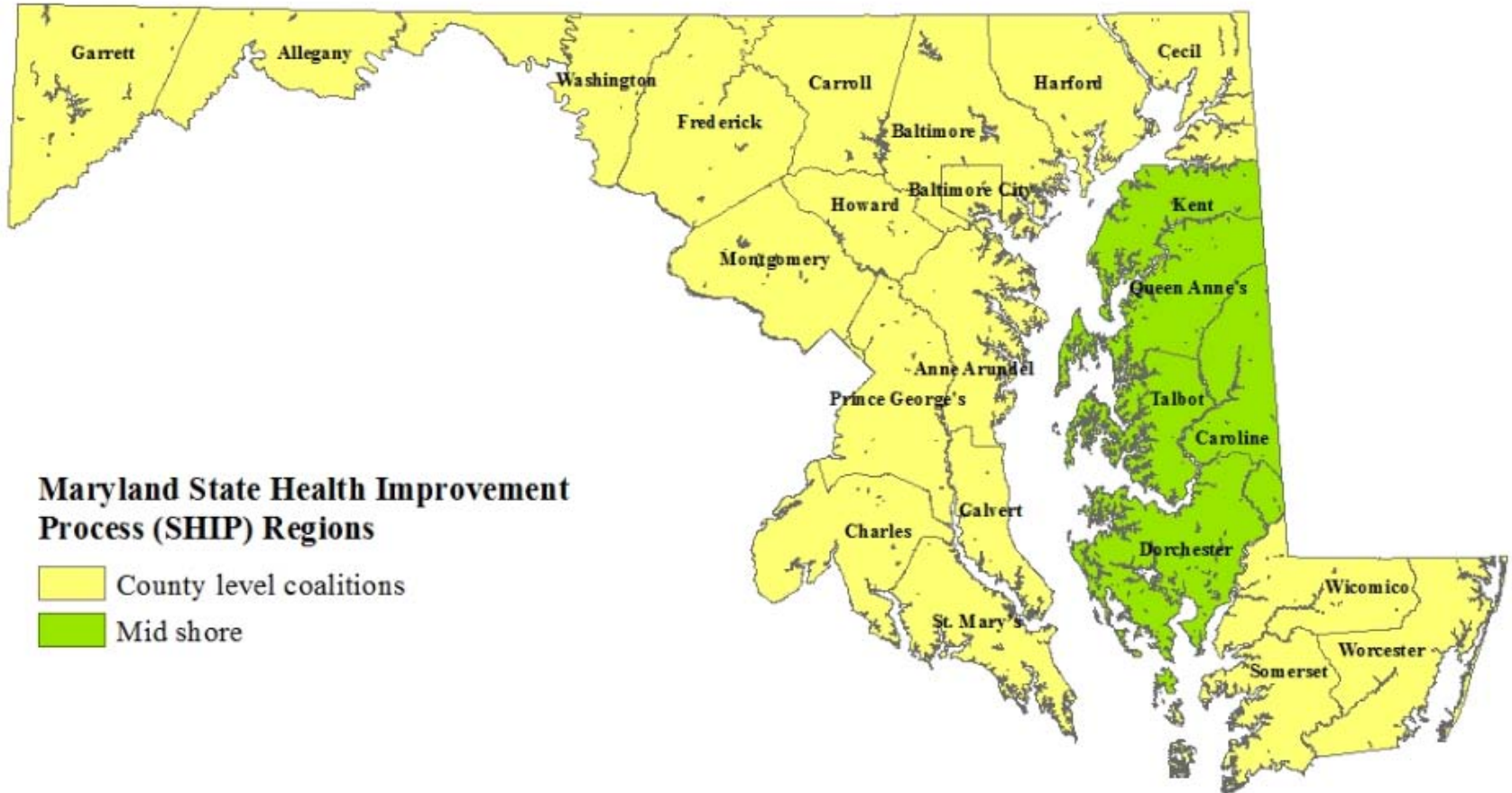
State Health Improvement Process (SHIP)

- Framework and resources to align local action to continuously improve population health and health equity



- 20 Local Health Improvement Coalitions
 - Typically Co-Chaired by Hospital and Public Health leaders and include cross-section of health and human services
- State and Local Accountability
 - 41 measures: health outcomes and determinants
 - State and county baselines and 2014 targets
 - Racial/ethnic disparity information

Maryland's 20 Local Health Improvement Coalitions (LHICs)



SHIP Data and Analytics

- For planning:
 - To assist in priority-setting around identified community health needs
- For performance monitoring:
 - To assist in continuous quality improvement
 - To identify best practices through comparative analysis
 - Public Health Accreditation Board (PHAB)

SHIP Vision Areas and Measures

SHIP 5 Vision Areas and 41 Measures

1. Healthy Beginnings (*8 measures*)
2. Healthy Living (*9 measures*)
3. Healthy Communities (*9 measures*)
4. Access to Health Care (*4 measures*)
5. Quality Preventive Care (*11 measures*)

SHIP 2013 Measures

Vision Area	Measure	SHIP 2013 Update
Healthy Beginnings	Reduce infant deaths	
	Reduce the percent of low birth weight births	
	Reduce sudden unexpected infant deaths (SUIDs)	
	Reduce the teen birth rate	
	Increase the % of pregnancies starting care in the 1st trimester	
	Increase the proportion of children who receive blood lead screenings*	
	Increase the % entering kindergarten ready to learn	
	Increase the percent of students who graduate high school	










Vision Area	Measure	SHIP 2013 Update
Healthy Living	Increase the % of adults who are physically active	
	Increase the % of adults who are at a healthy weight	
	Reduce the % of children who are considered obese	
	Reduce the % of adults who are current smokers	
	Reduce the % of youths using any kind of tobacco product	
	Decrease the rate of alcohol-impaired driving fatalities	
	Reduce new HIV infections among adults and adolescents	
	Reduce Chlamydia trachomatis infections	
	Increase life expectancy	





	The updated measure on track to meet/ met the Maryland 2014 Target
	The updated measure is moving toward the Maryland 2014 Target
	Updated measure is not moving toward the Maryland 2014 Target
	Data for update is pending





*New measures added in 2013



SHIP 2013 Measures












Vision Area	Measure	SHIP 2013 Update
Healthy Communities	Reduce child maltreatment	
	Reduce the suicide rate	
	Reduce domestic violence	
	Reduce the % of young children with high blood lead levels	
	Decrease fall-related deaths	
	Reduce pedestrian injuries on public roads	
	Reduce Salmonella infections transmitted through food	
	Reduce the number of unhealthy air days	
	Increase the number of affordable housing options*	





Vision Area	Measure	SHIP 2013 Update
Access to Health Care	Increase the proportion of persons with health insurance	
	Increase the % of adolescents receiving an annual wellness checkup	
	Increase the % of individuals receiving dental care	
	Reduce % of individuals unable to afford to see a doctor	

	The updated measure on track to meet/ met the Maryland 2014 Target
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*New measures added in 2013

SHIP 2013 Measures

Vision Area	Measure	SHIP 2013 Update
Quality Preventive Care	Reduce deaths from heart disease	
	Reduce the overall cancer death rate	
	Reduce diabetes -related emergency department visits	
	Reduce hypertension -related emergency department visits	
	Reduce drug-induced deaths	
	Reduce emergency department visits related to mental health conditions*	
	Reduce emergency department visits for addictions-related conditions*	
	Reduce the number of hospitalizations related to Alzheimer's disease	
	Increase the % of children with recommended vaccinations	
	Increase the % vaccinated annually for seasonal influenza	
	Reduce hospital emergency department visits for asthma	

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Maryland State Health Improvement Process (SHIP)



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- Health Behaviors
- Health Care
- Health Care Resources
- Health Outcomes
- Health Risk Factors
- Infectious Disease
- Injury and Violence
- Maternal and Infant Health
- Mental Health and Substance Abuse
- Occupational Health and Safety
- Oral Health
- Physical Environment
- Population
- Prevention Through Healthcare
- Public Health Infrastructure

All Indicators »

This regional site serves multiple counties. Use the dropdown below to view a specific county's indicators.

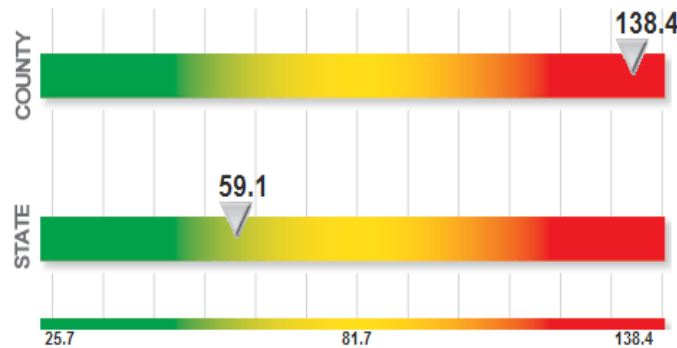
Selected County:

Emergency Department Visit Rate Due To Asthma

This indicator shows the rate of emergency department visits due to Asthma per 100,000 population. Asthma is a chronic health condition which causes very serious breathing problems. When properly controlled through close outpatient medical supervision, individuals and families can manage their asthma without costly emergency intervention. In Maryland, there are nearly 50,000 emergency department visit related to asthma each year.

Measurement Period: 2011

Value: 138.4



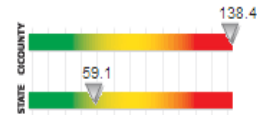
[learn more about the color range](#)

MARYLAND'S STATE HEALTH IMPROVEMENT PROCESS (SHIP)

Area: Baltimore city

Measurement Period: 2011

Value: 138.4



MODEL PRACTICES (28)

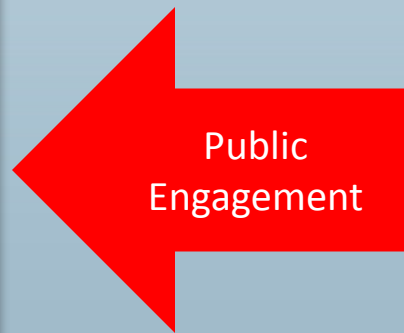
- [A Holistic Approach to Public Health: Using the Socio-Ecological Model to Address Health Disparities Associated with Substandard Housing \(2010\)](#)
- [Primary Care Medical Home Model \(2010\)](#)
- [Web-Based Health Data Coordination \(2010\)](#)
- [Creating and Marketing Healthy Meal Options at McDonald's Restaurants in Central Idaho \(2010\)](#)
- [Low-Cost Green Initiatives and](#)

Related Content

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CQI & Collaborative Learning



Public Engagement

SHIP: Network of Care Interactive Atlas

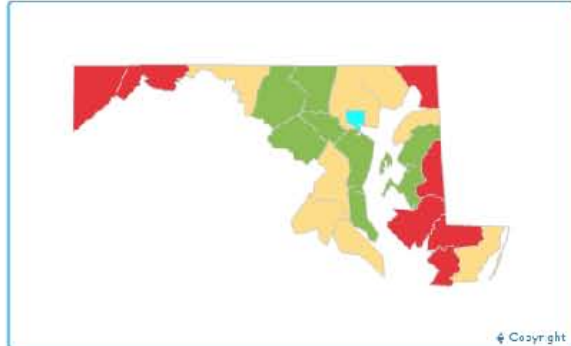
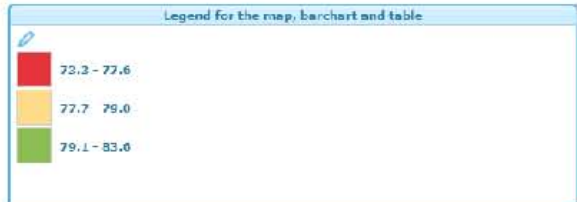
Increase Life Expectancy >> Life Expectancy >> 2008-2010

Use the 'Data' button to select an indicator to view on the map, bar chart and data table. Select a county in the map, data table or bar chart to see the performance of that area in the score chart, hold down ctrl or shift to select multiple areas. Use the notes icons to view more details on an indicator. The 'About' tab displays indicator details in pop-up windows. To show equal sized groups, use the pencil icon in all these settings.

County	Indicator value
Allegany	77.4
Anne Arundel	79
Baltimore city	73.3
Baltimore county	78.1
Calvert	79.1
Caroline	76.2
Carroll	79.9
Cecil	76.4
Charles	76.1
Dorchester	77.2
Frederick	80.2
Garrett	77.5
Harford	78.9
Hennepin	81.5
Kent	76.4
Montgomery	82.6
Prince George's	77.7
Queen Anne's	79.7

Indicator	County	Value	Change	On track?	Performance
▼ Increase Life Expectancy					
Life Expectancy	Baltimore city	73.3	0.4	No	0
▼ Healthy Babies					
Infant death rate	Baltimore city	12.2	-0.9	No	0
Low birth weight	Baltimore city	12.4%	-0.2	No	0
Sudden unexpected infant deaths (SUIDs)	Baltimore city	0.7%	-0.14	Yes	0
Teenage pregnancy rate	Baltimore city	60.62	-4.23	No	0
Early prenatal care	Baltimore city	75.05	no data	no data	0
▼ Healthy Social Environments					
Child maltreatment rate	Baltimore city	13.8	0.04	No	0
Suicide rate	Baltimore city	9	0.1	Goal met	0
Alcohol related driving fatalities	Baltimore city	no data	no data	no data	0
Students entering kindergarten ready to learn	Baltimore city	73	6	Yes	0
High school graduation rate	Baltimore city	65.9	4.2	No	0
Emergency department visit rate due to drugg...	Baltimore city	778.7%	6.3	No	0
▼ Safe Physical Environments					
Children with elevated blood lead levels	Baltimore city	1.1%	0	No	0
Fall-related death rate	Baltimore city	8.21	0	No	0
Pedestrian injury rate on public roads	Baltimore city	11.1%	-4.1	No	0
Salmonella infection rate	Baltimore city	74.62	0.3	No	0
Emergency department visit rate due to fall ...	Baltimore city	128.44	-5.4	No	0
Percentage of census tracts considered food ...	Baltimore city	1	no data	Goal met	0

Worse than past ↓ Better than past ↑ National value | Maryland value | Below MU target | Above MU target



SHIP Measures: Population Health Data Sources for New Waiver

SHIP 2013 Measures

Data source	Measure	Frequency of SHIP data release	Data collection	Month of data release
MSDE	% of students who graduate high school	Annually	Previous year	January
	% entering kindergarten ready to learn	Annually		March
BRFSS	% of adults who are physically active	Annually	Previous year	March
	% of adults who are at a healthy weight			
	% of adults who are current smokers			
	% of individuals unable to afford to see a doctor			
	% vaccinated annually for seasonal influenza			
CHSE	New HIV infections among adults and adolescents	Annually	Previous two years	March
DHR	Child maltreatment	Annually	Previous year	April
EPA	Number of unhealthy air days	Annually	Previous year	May
YRBSS	% of children who are considered obese	Biennially	Previous year	June
	% of youths using any kind of tobacco product			
VSA	Infant deaths	Annually	Previous year	July
	% of low birth weight births			
	Sudden unexpected infant deaths (SUIDs)			
	Teen birth rate			
	% of pregnancies starting care in 1st trimester			
	Life expectancy			
	Suicide rate			
	Fall-related deaths			
	Deaths from heart disease			
	Overall cancer death rate			
Drug-induced deaths				
HSCRC	Domestic violence	Annually	Previous year	July
	Diabetes-related emergency department visits			
	Hypertension-related emergency department visits			
	Emergency department visits related to mental health cond			
	Emergency department visits for addictions-related conditio			
	Number of hospitalizations related to Alzheimer's disease			
Hospital emergency department visits for asthma				
MDP	Number of affordable housing options	Annually	Previous year	July
MDE	% of young children with high blood lead levels	Annually	Previous year	August
SAHIE	Proportion of persons with health insurance	Annually	Two years prior	August
IDEHA	Chlamydia trachomatis infections	Annually	Previous year	September
	Salmonella infections transmitted through food			
Medicaid	Proportion of children who receive blood lead screenings	Annually	Previous year	September
	% of adolescents receiving an annual wellness checkup			
	% of individuals receiving dental care		Two years prior	
CDC	% of children with recommended vaccinations	Annually	Previous year	September
SHA	Rate of alcohol-impaired driving fatalities	Annually	Previous year	December
	Pedestrian injuries on public roads			

Current SHIP Data Sources, Measures, and Data Availability Timelines

Data source	Measure	SHIP DATA AVAILABILITY FOR WAIVER				
		CY2013	CY2014	CY2015	CY2016	CY2017
MSDE	% of students who graduate high school	Jan-14	Jan-15	Jan-16	Jan-17	Jan-18
	% entering kindergarten ready to learn	Mar-14	Mar-15	Mar-16	Mar-17	Mar-18
BRFSS	% of adults who are physically active	Mar-14	Mar-15	Mar-16	Mar-17	Mar-18
	% of adults who are at a healthy weight					
	% of adults who are current smokers					
	% of individuals unable to afford to see a doctor					
	% vaccinated annually for seasonal influenza					
CHSE	New HIV infections among adults and adolescents	Mar-14	Mar-15	Mar-16	Mar-17	Mar-18
DHR	Child maltreatment	Apr-14	Apr-15	Apr-16	Apr-17	Apr-18
EPA	Number of unhealthy air days	May-14	May-15	May-16	May-17	May-18
YRBSS	% of children who are considered obese	Jun-14	N/A	Jun-16	N/A	Jun-18
	% of youths using any kind of tobacco product					
VSA	Infant deaths	Jul-14	Jul-15	Jul-16	Jul-17	Jul-18
	% of low birth weight births					
	Sudden unexpected infant deaths (SUIDs)					
	Teen birth rate					
	% of pregnancies starting care in 1st trimester					
	Life expectancy					
	Suicide rate					
	Fall-related deaths					
	Deaths from heart disease					
	Overall cancer death rate					
	Drug-induced deaths					
HSCRC	Domestic violence	Jul-14	Jul-15	Jul-16	Jul-17	Jul-18
	Diabetes-related emergency department visits					
	Hypertension-related emergency department visits					
	Emergency department visits related to mental health conditions					
	Emergency department visits for addictions-related conditions					
	Number of hospitalizations related to Alzheimer's disease					
Hospital emergency department visits for asthma						
MDP	Number of affordable housing options	Jul-14	Jul-15	Jul-16	Jul-17	Jul-18
MDE	% of young children with high blood lead levels	Aug-14	Aug-15	Aug-16	Aug-17	Aug-18
SAHIE	Proportion of persons with health insurance	Unknown				
IDEHA	Chlamydia trachomatis infections	Sep-14	Sep-15	Sep-16	Sep-17	Sep-18
	Salmonella infections transmitted through food					
Medicaid	Proportion of children who receive blood lead screenings	Sep-14	Sep-15	Sep-16	Sep-17	Sep-18
	% of adolescents receiving an annual wellness checkup	Sep-15	Sep-16	Sep-17	Sep-18	Sep-19
	% of individuals receiving dental care	Sep-15	Sep-16	Sep-17	Sep-18	Sep-19
CDC	% of children with recommended vaccinations	Sep-14	Sep-15	Sep-16	Sep-17	Sep-18
SHA	Rate of alcohol-impaired driving fatalities	Dec-14	Dec-15	Dec-16	Dec-17	Dec-18
	Pedestrian injuries on public roads					

Monitoring Commitments and Data Sources Outlined in the CMS Contract

SHIP MEASURE	DATA SOURCE	TIMELINE
SHIP #17: Increase \life expectancy	VSA, DHMH	Annual/July
Prevention Quality Indicator (PQI) Composite Measure of Preventable Hospitalization	HSCRC Casemix Data Set	Quarterly (6 month lag)
SHIP #12: Reduce the % of adults who are current smokers	BRFSS	Annual/March
SHIP #13: Reduce the % of youth using any kind of tobacco product	Maryland Youth Tobacco Survey	Biennial/June
SHIP #40: Increase the % vaccinated annually for seasonal influenza	CDC National Immunization Survey; BRFSS	Annual/March
SHIP #39: Increase % of children with recommended vaccinations	CDC National Immunization Survey	Annual/Sept.
SHIP #15: Reduce new HIV infections among adults and adolescents	MD HIV surveillance system; US Census Bureau; ACS 5 year Census	Annual/March
SHIP #33: Reduce diabetes-related emergency department visits	HSCRC Casemix Data Set	Annual/July
SHIP #34: Reduce hypertension related emergency department visits	HSCRC Casemix Data Set	Annual/July
SHIP #11: Reduce the % of children who are considered obese	Maryland Youth Tobacco Survey	Biennial/June
SHIP #10: Increase the % of adults who are at a healthy weight	BRFSS	Annual/March
SHIP #41: Reduce hospital ED visits from asthma	HSCRC Casemix Data Set	Annual/July
SHIP #36 & #37: Reduce hospital ED visits related to behavioral health	HSCRC Casemix Data Set	Annual/July
SHIP #22: Fall-related death rate	VSA, DHMH	Annual/July

Thank you!

Connect with us on the internet

<http://hsia.dhmfh.maryland.gov>

<http://ship.md.networkofcare.org/>

Contact Information

Karen Matsuoka, DHMH Director HSIA; Karen.matsuoka@maryland.gov

Raquel Samson, DHMH Deputy Director HSIA; Raquel.samson@maryland.gov

Kade Patanavanich, Senior Data Analyst HSIA; Kade.Patanavanich@maryland.gov

Kevin Liu, Quality Improvement Specialist, HSIA; Kevin.Lui@maryland.gov