

Maryland Health, Communities and Environment

Who is most at risk & Where are the most vulnerable communities? Summary of results from DHMH-UMD Project.

March 16, 2017
Mitigation Working Group
Maryland Climate Change Commission
10am – 12pm





BRACE FRAMEWORK

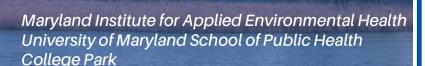












Prepared for the Maryland Department of Health and Mental Hygiene





RESEARCH TEAM

Maryland Institute of Applied Environmental Health University of Maryland, College Park

Amir Sapkota, PhD Associate Professor

Sutyajeet Soneja, PhD Postdoctoral Fellow

Jared Fisher, MPH Graduate Student

Maryland Department of Health and Mental Hygiene

Clifford S. Mitchell, MS. MD. MPH Director, Environmental Health Bureau

Contributors

Rachel Hess-Mutinda, MSW Environmental Health Bureau Maryland Department of Health and Mental Hygiene

Jed Miller, MD, MPH

Medical Advisor, Science Services Administration Maryland Department of Environment

XIn-Zhona Liana, PhD

Professor, Department of Atmospheric and Oceanic Sciences University of Maryland, College Park

Chengsheng Jiang, PhD Research Assistant Professor

Crystal Romeo Upperman, MPA Program Manager

Ann Liu, PhD Chief Epidemiologist, Environmental Health

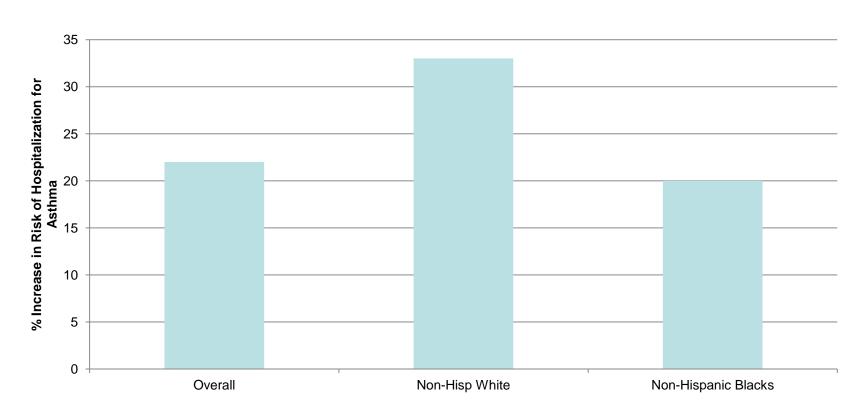
Nancy Servatius, PhD

Outreach Coordinator, Environmental Health Bureau Maryland Department of Health and Mental Hyglene

Steven Davis Program Officer Centers for Disease Control and Prevention



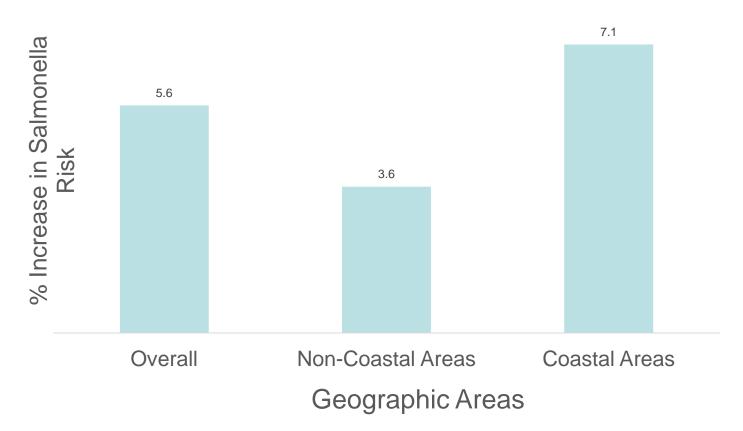
Extreme Heat Events and Risk of Hospitalization for Asthma







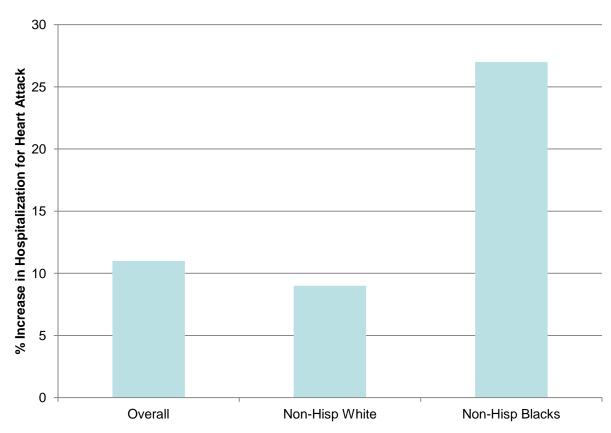
Increased Risk of Salmonella Associated with Extreme Precipitation







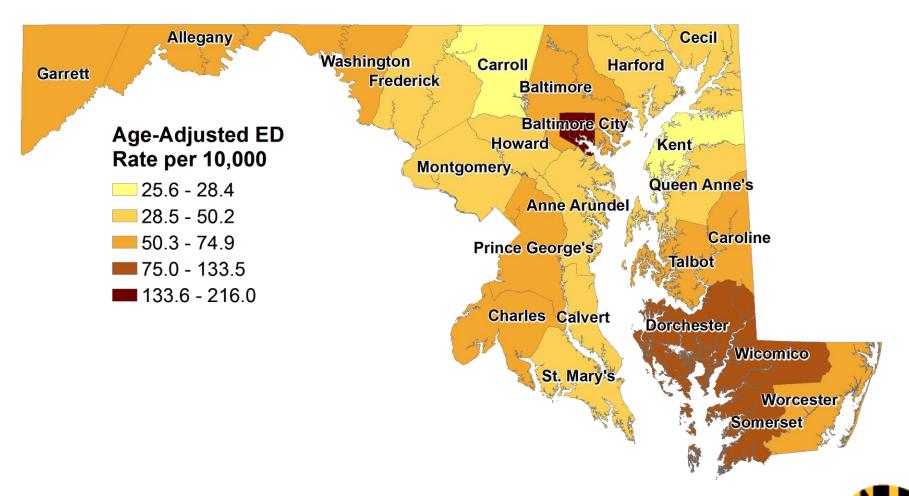
Extreme Heat Events and Risk of Hospitalization for Heart Attack







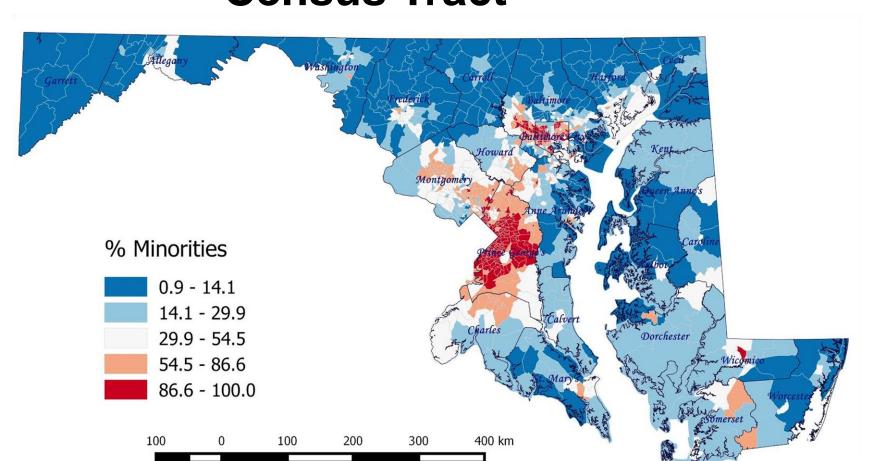
Asthma Hospitalization Rate by County





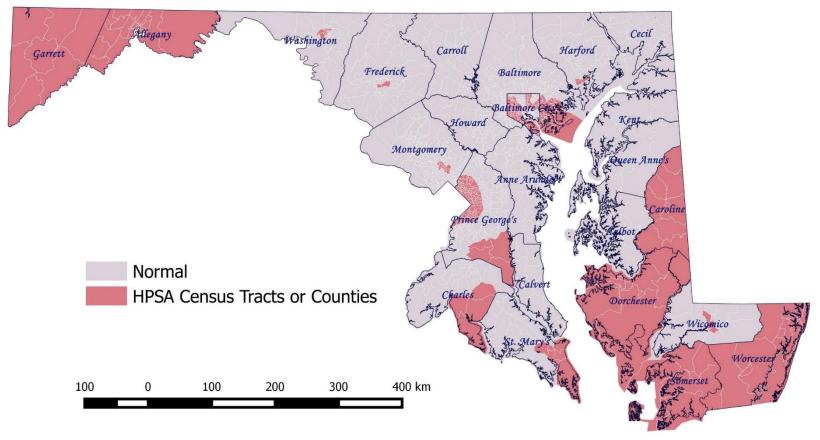


Percent Minority Population by Census Tract



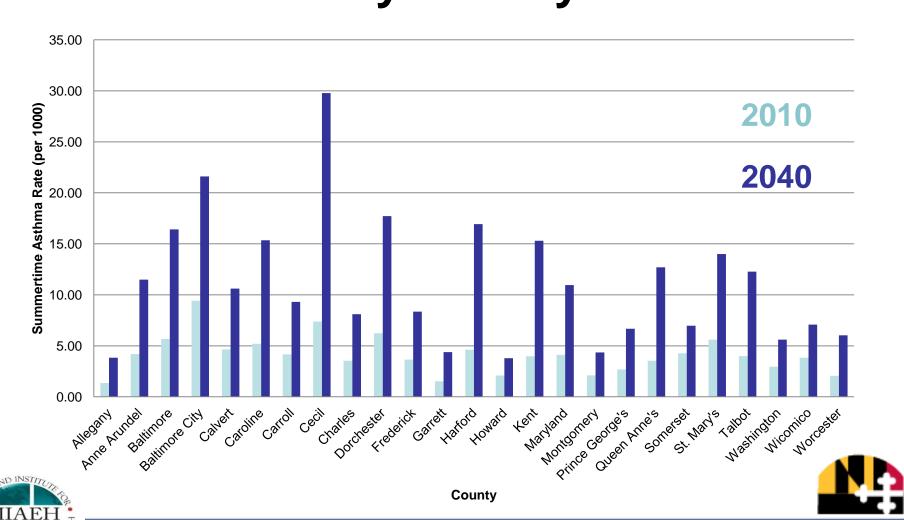


Health Professional Shortage Areas





Summertime Asthma Hospitalization Rate by County



Vulnerable populations:



Identified in the 2016 Climate and Health Profile Report

Ethnicity

- Non-Hispanic blacks
- Non-Hispanic whites

Geographical

- Coastal communities
- Baltimore City
- Baltimore City, PG, Washington

Other

- Health Care Shortage Areas
- Poorly maintained roads





Current work



PARTNERS:

- Maryland Environmental Health Network
- Minority Office of Technical Assistance (Office of Minority Health)
- ARWG
- ECO
- Eastern Shore Climate Adaptation
 Partnership
- PG and AA County School system
- Always looking for more collaborators

ACTIVITIES & EVENTS

- Building Resilient Communities in Maryland: A Stakeholder Forum (Dec. 9, 2016)
- Climate Change and Environmental Health in Maryland shared google calendar
- Healthy Anne Arundel health fairs
- Conferences and workshops
- Planning listening sessions across
 MD
- Possible 2 day regional meeting this fall.



Contact information



MD DHMH Climate and Health Webpage

Allison Gost

Program Manager

Allison.gost@Maryland.gov

410-767-6661

Clifford S. Mitchell, MS, MD, MPH

Director, Environmental Health Bureau

Cliff.Mitchell@maryland.gov

(410) 767-7438 or 8418



