



JOHNS HOPKINS
BLOOMBERG SCHOOL
of PUBLIC HEALTH

Master of Public Health
Capstone Presentations
May 15, 2021

Program

Johns Hopkins Bloomberg School of Public Health

Baltimore, Maryland

MPH CAPSTONE SYMPOSIUM
SATURDAY, MAY 15, 2021

Agenda

<https://jh.zoom.us/j/97245947347?pwd=bndCZEZPSzVhYjB2dU40Z1N6di9PQT09>

Meeting ID: 972 4594 7347 and Passcode: 223800

****Breakout rooms are designated by the bolded acronym***

8:30-10:30AM

MORNING SESSION ONE

EPI & BIOST METHODS FOR PUBLIC HEALTH & CLINICAL RESEARCH
CONCENTRATION I (**Epi Biostat 1**) – *Rosa Crum & Annie Martin*

EPI & BIOST METHODS FOR PUBLIC HEALTH & CLINICAL RESEARCH
CONCENTRATION II (**Epi Biostat 2**) – *Marie Diener-West & Chinenye Ugoji*

HEALTH SYSTEMS & POLICY CONCENTRATION I (**HSP 1**) – *Mary Fox & Shivam Gupta*
(Students must attend breakout room HSP 2 for the 11am-1:00pm session)

PUBLIC HEALTH TOPICS I (**PH 1**) – *Laura Caulfield & Alison Huang*
(Students must attend breakout room PH 3 for the 11am-1:00pm session)

PUBLIC HEALTH TOPICS II (**PH 2**) – *Paulani Mui & Jeffrey Hardesty*
(Students must attend breakout room PH 4 for the 11am-1:00pm session)

10:30-11:00AM

BREAK

11:00AM-1:00PM

MORNING SESSION TWO

EPI & BIOST METHODS FOR PUBLIC HEALTH & CLINICAL RESEARCH CONCENTRATION III
(**Epi Biostat 3**) – *Rosa Crum & Annie Martin*

EPI & BIOST METHODS FOR PUBLIC HEALTH & CLINICAL RESEARCH CONCENTRATION IV
(**Epi Biostat 4**) – *Marie Diener-West & Chinenye Ugoji*

HEALTH SYSTEMS & POLICY CONCENTRATION II (**HSP 2**) – *Shivam Gupta & Elizabeth Stone*
(Students must attend breakout room HSP 1 for the 8:30am-11:00am session)

INFECTIOUS DISEASES CONCENTRATION (**ID**) – *Noreen Hynes, Photini Sinnis, Clive Shiff & Kawsar Talaat*
(Students must attend breakout room PH 2 for the 8:30am-11:00am session)

MPH MBA PROGRAM (**MPH MBA**) – *David Chin & Stef Baral*
(Students must attend breakout room PH 2 for the 8:30am-11:00am session)

PUBLIC HEALTH TOPICS III (**PH 3**) – *Keith West & Nukhba Zia*
(Students must attend breakout room PH 1 for the 8:30am-11:00am session)

PUBLIC HEALTH TOPICS IV (**PH 4**) – *Jackie Agnew & Alison Huang*
(Students must attend breakout room PH 2 for the 8:30am-11:00am session)

PUBLIC HEALTH TOPICS V (**PH 5**) – *Andrea Ruff & Randy Bryant*
(Students must attend breakout room PH 1 for the 8:30am-11:00am session)

1:10PM

AWARD ANNOUNCEMENTS

Epi & Biostat Methods for Public Health & Clinical Research Concentration I

8:30-10:30

Moderators: Rosa Crum

Annie Martin

Neha Anand

Prenatal acetaminophen exposure and childhood attention-deficit/hyperactivity disorder (ADHD): methionine as a partial mediator

Lorene Cudjoe

Severe Maternal Morbidity and Mortality between Races by Community Type in Maryland from 2012 to 2020

Dana Goplerud

The association of low-income housing and outdoor air pollution

Cheng-Yueh Hsu

The association between Brain-Derived Neurotrophic Factors (BDNF) with Chronic-Kidney Disease (CKD) among angina patients

Alvin Kwon

Association between sociodemographic factors, substance use, chronic comorbid disease conditions and HIV with pain among persons aging with HIV infection and injection drug use in the AIDS Linked to the IntraVenous Experience (ALIVE) Study

Joelynn Muwanga

Association of rhabdomyolysis with fluoroquinolones: A comparative analysis with alternative antibiotics

Kshitiz Paudel

What is the association between sex/age and time-window availability for TB contact investigation in urban Uganda?

Shreya Srivastava

Association between Kidney Function and Lipid Levels in Older Adults: The Atherosclerosis Risk in Communities (ARIC) Study

Epi & Biostat Methods for Public Health & Clinical Research Concentration II

8:30-10:30

Moderators: Marie Diener-West Chinenye Ugoji

Alec Aaron

The early impacts of COVID-19 on food security and livelihood in Vietnam

Lama Assi

Hearing Loss and Health Care Utilization Among Medicare Beneficiaries

Po-Heng Chen

Effect of weight loss on liver enzyme level

Sindhura Karlapudi

Use of Benzodiazepines in the elderly from 2016-2020

Deepthi Mallela

Racial disparities in the perioperative outcomes of carotid endarterectomy in patients with asymptomatic carotid artery stenosis

Kori Porosnicu Rodriguez

Investigating the Association Between Circulating Antibodies Against Oral Bacteria and Colorectal Cancer Risk in the Atherosclerosis Risk in Communities (ARIC) Study

Sandra Smiley

Canada's crackdown on poppers and crystal methamphetamine use among sexual minority men: A secondary data analysis

Hursuong Vongsachang

Epidemiology of Pediatric Primary Ophthalmic Inpatient Admissions in the United States

Maria Garcia-Dominguez

Functional Outcomes differ between vascular and inflammatory myelopathies

Health Systems & Policy Concentration I

8:30-10:30

Moderators: Mary Fox

Shivam Gupta

Melanie Bechard

Changes in Pediatric Injury Patterns During COVID19

Jeffrey Edwards

Racial Disparities in COVID-19 in the United States

Christopher Hollabaugh

Impact of COVID-19 on Anesthesiology Practice

Hannah Maniates

Medicaid Enrollment After Incarceration: Best Practices and Gaps in Care

Ayako Nakase

A systematic review to inform updated HIV guidance from the World Health Organization: online case management for men who have sex with men

Patrick Shikani

ClearMask: Case Study on the Importance of Entrepreneurship in Public Health

Public Health Topics I

8:30-10:30 **Moderators: Laura Caulfield Alison Huang**

- Bolanle Akinyele** *Feasibility of CPR Training For Secondary School Students In Southwest, Nigeria*
- Grace Lassiter** *Pediatric Surgical Oncology Costs in Maryland*
- Mayumi Masumura** *Be active today, and save your future: Hospital-based online yoga program for hypertension in Japan*
- MaLaysia Mitchell** *Essential Workers: Community Health Workers' Perceptions of COVID-19 Care Program*
- Cassandra Randolph** *Reevaluating Support Groups for U.S. Veterans During the COVID-19 Pandemic*
- Lilyanna Thompson** *Optimizing virtual community health worker trainings in the rural highlands of Guatemala*
- Benjamin Wormser** *What happens to patients when their drug switches tiers?*
- Kelsey Zack** *Nutrition services in Southern Mozambique: An analysis of the reliability of data collection methods*

Public Health Topics II

8:30-10:30

Moderators: Paulani Mui

Jeffrey Hardesty

Annabelle Brennan

Learning and leading: a course in culture building and leadership for health professionals

Logan Dennis

Idaho's Medicaid Expansion: A Program Evaluation of the First Year

Tsai-Tong Lee

Increasing Utilization and Access to Maternal Services: A Quality Improvement Project in the Rural Maasai Region of Tanzania

Christina Memmott

Risk and Resilience in the Health Workforce: Understanding and supporting the experiences of women health workers during COVID-19

Amy VanderStoep

The Impact of Trauma Volume on Morbidity and Mortality Hospital Outcomes in Geriatric Populations with Varying Injuries

Mollie Young

Analysis: Healthy Hunger Free Kids Act

Epi & Biostat Methods for Public Health & Clinical Research Concentration III

11:00-1:00 **Moderators: Rosa Crum** **Annie Martin**

Bani Antonio Aguirre *Risk factors and incidence of Cystic Macular Edema in Retinitis Pigmentosa*

Zhongyue Deng *Prevalence of LGV in CT positive patients and associations with demographic, behavioral, or clinical factors*

Joey Francis Hernandez *Assessing the factors associated with vitamin A deficiency among children under 5 in the Philippines*

Vimal Konduri *The Impact of the COVID-19 Pandemic on Global School Feeding*

Thomas Le *Asian American self-reported discrimination in healthcare and health service utilization*

Molly Mantus *Impact of Spatial Variation in Access to Community Health Workers on Malaria Outcomes among Children in a High Transmission Region in Zambia*

Jessica Salas-Brooks *Examining Racial Disparities in Adverse Birth Outcomes using PRAMS*

Elisabeth Tawa *Examining patterns of differential DNA methylation in association with awakening cortisol*

Epi & Biostat Methods for Public Health & Clinical Research Concentration IV

11:00-1:00

Moderators: Marie Diener-West Chinenye Ugoji

Joel Chavez Ortiz

The association between sexual-related stigma and STI status

Claire Chen

Stigma and Quality of Life of Female Sex Workers Living with HIV

Long Hoang

Center-level variation in getting a living-donor kidney transplant

Suyan Hu

Country-level analysis of risk factors on COVID-19

Rachel Anne Pagador

Change in Mental Health Symptoms during COVID-19 Pandemic Between Age Groups in the US

Paul Rebman

Patient-Level Characteristics Associated with Loss from Club-Based Care among HIV Adherence Club Participants in South Africa

Monika Satoskar

Cardiovascular and Pulmonary Outcomes in COVID-19 Patients

John Shin

Role of hearing impairment in cognitive decline and progression to dementia in older adults

Health Systems & Policy Concentration II

11:00-1:00 **Moderators: Shivam Gupta Elizabeth Stone**

Lauren-Ashley Daley *Creating Equity Through Cannabis Legislation*

Armando Gallegos *Thoracic Transplantation Under the HOPE Act: Transplant Incidence Over Time in Candidates Living with HIV and Policy Recommendation*

Tushar Garg Ashley *A systematic review of active case-finding for tuberculosis in India*

Matter *Educating Clinicians on General Principles of Firearm Injury and State-Specific Firearm Policies to Enhance Patient Care*

Vy Nguyen *Assessing the Epidemiology of Falls Among Pediatric Patients During the COVID-19 Epoch*

Infectious Diseases Concentration

11:00-1:00 **Moderators:** **Noreen Hynes** **Clive Shiff** **Photini Sinnis** **Kawsar Talaat**

Tatenda Makoni *Safety and efficacy of antiretroviral drugs (ARVs) used in the prevention of mother-to-child transmission of HIV*

Lily Sangmi Nam *Characteristics of Proposed and Enacted State Legislation on Childhood Vaccination Exemptions, 2018-2020*

Sanika Satoskar *Trends in Head Injury Patterns in the Pediatric Population during the COVID-19 Era.*

MPH/MBA Program

11:00-1:00

Moderators: David Chin

Stef Baral

Zachary Britt

*Strengthening U.S. Health Systems to Meet the Impacts of Climate Change:
Applying Lessons Learned from the U.S. Response to COVID-19*

Mwende Mburu

A Use Case for IV Iron in Treating Maternal Anemia in LMICs

Katherine Narvaez Mena

*Unmet Standards and Lack of Accountability Exacerbate the Public Health Crisis
and Human Rights Violations in ICE Detention Facilities*

Abha Patil

*How the COVID-19 Pandemic has Shaped Digital Health and Lessons for the
Future: An Ethical Framework for Public-Private Partnerships in Digital Health in
the U.S.*

Eda Reed

*Reflection and Action to Improve Self-Reliance and Effectiveness (RAISE) Tool and
Connections to Family Planning Outcomes*

Sara Skelton

Developing Organizational Strategy in Global Digital Health

Public Health Topics III

11:00-1:00

Moderators: Keith West

Nukhba Zia

Elizabeth Constantz

Analysis of Correlates for Early Child Marriage in Ethiopia

Isna Aulia Fajarini

Low Psychosocial Factors Associated with Higher Sugary Foods and Beverages Consumption Among Low Income African American Adolescents in Baltimore

Toria Hawkins

The Role of Restorative Justice in US Nonprofits: A Living Classroom Foundation Training on Restorative Programming

Kimberly Khoo

Understanding Exposure to Plastic Surgery at the Undergraduate University Level

Paige Volpenhein

Addressing social vulnerabilities to food insecurity after disasters: Implications for food NPOs in South Florida

Public Health Topics IV

11:00-1:00 **Moderators: Jackie Agnew Alison Huang**

Margarita Correa-Mendez *Application of the capability, opportunity, motivation and behavior (COM-B) model to identify facilitators and barriers to cervical cancer screening in Iquitos, Peru*

Emily Foxman *Building a Culture of Health: The Gulf Coast Food Systems Map*

Mary MacHaca *Assessing Cambodian diet profiles and creation of a 24-hour dietary recall tool*

Rachael Molitor *The Integration of Community Health Workers in a Primary Care Setting: A review of successful studies, current strategies, and best practices in the United States*

Ayam Nouiouat *Mental Health Service Utilization Patterns Amongst Immigrants vs Nonimmigrants & Barriers to Access*

Olivia Veira *The Impact of the Special Supplemental Nutrition Program for Women, Infants, and Children (WIC) on Infant Mortality*

Public Health Topics V

11:00-1:00

Moderators: Andrea Ruff

Randy Bryant

Katia Domingues

Evaluating the Efficacy of Malaria Interventions on Mortality Outcomes in Sub-Saharan Africa: Historical Analysis and Implications for the Future

Rachael London

Best Practices for Urban Public Space Critical Response: COVID-19 Case Study

Adela Mahmutovic

Suicide Response and Difficult Conversations Training for Health System Support Staff

Adjoa Ofosu-Ameyaw

Assessment of the Use of Communicative Technologies in Increasing Quality of Life in Frail Seniors

Emily Stirzaker

Who pays, who benefits? Tax Incentives for Private Health Insurance in Australia and the United States

Karn Wijarnpreecha

Outcomes of simultaneous liver transplant and bariatric surgery: A systematic review

**Master of Public Health Capstone
AWARD RECIPIENTS
May 2021**

Special honors are given to the 14 students listed below for their capstone written projects.
These students will receive an MPH capstone award plaque for outstanding achievement.

Saqer Alkharabsheh

“Direct Oral Anticoagulants vs Vitamin K Antagonists in Management of Patients with Left Ventricular Thrombus”
Capstone Advisor: John Muschelli \ Faculty Advisor: John Muschelli

Melanie Bechard

MPH Capstone COVID-Related Research Award

“Poisoning-Related Pediatric Emergency Department Visits During the COVID-19 Pandemic in the Baltimore City Area”
Capstone Advisor: Andrea Gielen \ Faculty Advisor: Johnathan Ehsani

Jung Byun

Department of Environmental Health and Engineering MPH Capstone Award

“Race, Copy Number Variation, and Local Hog Concentration in Breast Cancer Mortality”
Capstone Advisor: Paul Strickland \ Faculty Advisor: Christine Ladd-Acosta

Omar Dzaye

*“Coronary Artery Calcium is Associated with Increased Risk for Lung and Colorectal Cancer in Men and women:
The Multi-Ethnic Study of Atherosclerosis (MESA)”*
Capstone Advisor: Michael Blaha \ Faculty Advisor: Alison Gemmill

Dana Goplerud

“The Association of Low-income Housing and Outdoor Air Pollution”
Capstone Advisor: Craig Pollack \ Faculty Advisor: Mary Catherine Beach

Tomomitsu Ichikawa

“Factors Associated with Home Deaths in Elderly Patients Receiving Home Medical Care in Japan: A Historic Cohort Study”
Capstone Advisor: Qian-Li Xue \ Faculty Advisor: Mark Bittle

Monique Jindahl

“The Impact of Policing on the Health and Well Being of Black Youth”
Capstone Advisor: Maria Trent, Carlos \ Faculty Advisor: Susan Hannam

Chao Long

MPH Capstone Award of Distinction

“Developing a Multimedia Patient-Reported Outcomes Measure for Low Literacy Patients”
Capstone Advisor: Laura Beres \ Faculty Advisor: Albert Wu

Molly Mantus

*“Impact of Spatial Variation in Access to Community Health Workers on Malaria Outcomes among Children in a
High Transmission Region in Zambia”*
Capstone Advisor: Matthew Ippolito \ Faculty Advisor: Saifuddin Ahmed

Dana McLaughlin

MPH Capstone COVID-Related Research Award

“The Inclusion of Undocumented Immigrants in US State COVID-19 Vaccine Plans”
Capstone Advisor: Paul Robinson \ Faculty Advisor: Courtland Robinson

Tria Rooney

“Direct Provision in Ireland”
Capstone Advisor: Courtland Robinson \ Faculty Advisor: Courtland Robinson

Micaela Root

Department of Environmental Health and Engineering MPH Capstone Award

“Philadelphia’s Restitution of Water Service during COVID-19”
Capstone Advisor: Summer Rosenstock \ Faculty Advisor: Wendy Bennett

Natasha Shah

“Strategies for Vaccine Product Innovation: Creating an Enabling Environment for Product Development-to-Uptake in Low- and Middle-Income Countries”
Capstone Advisor: David Sack \ Faculty Advisor: David Sack

Emily Stirzaker

“Who Pays, Who Benefits? An Analysis of Direct Subsidies and Tax Incentives for Private Health Insurance in Australia and the United States”
Capstone Advisor: Gerard Anderson \ Faculty Advisor: Bryan Patenaude