



JOHNS HOPKINS
BLOOMBERG SCHOOL
of PUBLIC HEALTH

Master of Public Health
Capstone Presentations
May 9, 2020

Program

Johns Hopkins Bloomberg School of Public Health

Baltimore, Maryland

MPH CAPSTONE SYMPOSIUM
SATURDAY, MAY 9, 2020

AGENDA

8:30-10:30AM

MORNING SESSION ONE

EPI & BIOST METHODS FOR PUBLIC HEALTH & CLINICAL RESEARCH

CONCENTRATION I – **Rosa Crum & Albert Osei**

<https://jh.zoom.us/j/99450015493?pwd=RFV2VnRrQ1IBNW5QaVhLdzVXbUIZdz09>

Meeting ID: 994 5001 5493 Password: 004082

EPI & BIOST METHODS FOR PUBLIC HEALTH & CLINICAL RESEARCH

CONCENTRATION II – **Marie Diener-West & Oluwafemi Owodunni**

<https://jhjhm.zoom.us/j/92765201025?pwd=ZW42d3hYbVVRZDVFeGhLUXpnMWlmdz09>

Meeting ID: 927 6520 1025 Password: 705903

HEALTH SYSTEMS & POLICY CONCENTRATION I – **Mary Fox & Rachel Presskreicher**

<https://jh.zoom.us/j/95353676157?pwd=aTZISIFUMTVWZG1QNzdURndBRDRxZz09>

Meeting ID: 953 5367 6157 Password: 261530

HEALTH SYSTEMS & POLICY CONCENTRATION II – **Shivam Gupta & Nukhba Zia**

<https://us02web.zoom.us/j/86578656150?pwd=ZEF5UkxlOFJHVGNElhSSk5pdUFJUT09>

Meeting ID: 865 7865 6150 Password: 155987

PUBLIC HEALTH TOPICS I – **Keith West & Paulani Mui**

<https://jh.zoom.us/j/96326080077?pwd=T2VRaFd1N1FxTnFiVG1wU3Y0eIN2dz09>

Meeting ID: 963 2608 0077 Password: 912689

PUBLIC HEALTH TOPICS II – **Randy Bryant & Kayla Tormohlen**

<https://JHUBBlueJays.zoom.us/j/92063347081?pwd=Zkc2S3ZaOVR4UEVvQUJNd0trSVJSUT09>

Meeting ID: 920 6334 7081 Password: 013361

PUBLIC HEALTH TOPICS III – **Laura Caulfield & Mohammad Darwish**

<https://jh.zoom.us/j/95302123822?pwd=Y0Q2MkdJMjVnSUtGb3k3NkdIUE5JUT09>

Meeting ID: 953 0212 3822 Password: 419176

PUBLIC HEALTH TOPICS IV – **Donna Strobino & Niranjani Nagarajan**

<https://jh.zoom.us/j/98308228402?pwd=R2JiTWFqYTdMQml3RGZJYkNZUFpWdz09>

Meeting ID: 983 0822 8402 Password: 018121

PUBLIC HEALTH TOPICS V – **Andrea Ruff & Jeffrey Hardesty**

<https://jhjhm.zoom.us/j/91944284202?pwd=YmRRL1h0UmVQWnlqaXNcMjhtbG9WZz09>

Meeting ID: 919 4428 4202 Password: 328137

PUBLIC HEALTH TOPICS VI – **Jackie Agnew & Daniel Antiporta**

<https://JHUBBlueJays.zoom.us/j/93073147119?pwd=ZTlzTmxYOURWRmF0aklrcjckSDNnUT09>

Meeting ID: 930 7314 7119 Password: 877247

10:30-11:00AM

BREAK

MPH CAPSTONE SYMPOSIUM
SATURDAY, MAY 9, 2020

AGENDA

11:00AM-1:00PM **MORNING SESSION TWO**

EPI & BIOST METHODS FOR PUBLIC HEALTH & CLINICAL RESEARCH CONCENTRATION III –
Rosa Crum & Albert Osei

<https://jh.zoom.us/j/94588581098?pwd=ZjV4amhBRjd2VFNFRR0VsN0ZnMk9ndz09>

Meeting ID: 945 8858 1098 Password: 006312

EPI & BIOST METHODS FOR PUBLIC HEALTH & CLINICAL RESEARCH CONCENTRATION IV –
Marie Diener-West & Oluwafemi Owodunni

<https://jhjm.zoom.us/j/92765201025?pwd=ZW42d3hYbVVRZDVFeGhLUXpnMWlmdz09>

Meeting ID: 927 6520 1025 Password: 705903

INFECTIOUS DISEASES CONCENTRATION – **Kawsar Talaat & Clive Shiff**

<https://jh.zoom.us/j/99351997959?pwd=VTZyYVJ0UIU1NVRwaUo0NXhwdGpmZz09>

Meeting ID: 993 5199 7959 Password: 550755

MPH MBA PROGRAM – **David Chin & Paul Whong**

<https://us02web.zoom.us/j/85709927458>

Meeting ID: 857 0992 7458

PUBLIC HEALTH TOPICS VII – **Andrea Ruff & Isaac Botchey**

<https://jhjm.zoom.us/j/91944284202?pwd=YmRRL1h0UmVQWnlqaXNCMjhtbG9WZz09>

Meeting ID: 919 4428 4202 Password: 328137

PUBLIC HEALTH TOPICS VIII - **Randy Bryant & Kayla Tormohlen**

<https://JHUBBlueJays.zoom.us/j/92063347081?pwd=Zkc2S3ZaOVR4UEVvQUJNd0trSVJSUT09>

Meeting ID: 920 6334 7081 Password: 013361

PUBLIC HEALTH TOPICS IX– **Jackie Agnew & Daniel Antiporta**

<https://JHUBBlueJays.zoom.us/j/93073147119?pwd=ZTlzTmxYOURWRmF0aklrcjdkSDNnUT09>

Meeting ID: 930 7314 7119 Password: 877247

1:10PM **AWARD ANNOUNCEMENTS**

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

8:30-10:30

Moderators: Rosa Crum

Albert Osei

Tanya Abdul-Malak

Night-to-night Variability in Obstructive Sleep Apnea as measured by Apnea-hypopnea index (AHI)

Ellen Boakye

VARIATIONS IN THE RISK OF PREECLAMPSIA BY MOTHER'S COUNTRY/REGION OF BIRTH AND DURATION OF STAY IN THE U.S. AMONG BLACK WOMEN IN THE U.S

Julia Eckstein

Polypharmacy as a risk factor for cognitive impairment and frailty in older adults

Shima Idries

Assessing social and economic predictors of ART adherence at baseline for women enrolled in the PROMOTE multi-country cohort study

Priya Pathak

Validation of Edmonton Frail Scale to predict surgical outcomes in Elderly

Stephen Shields

Inpatient Dysglycemia and Mortality Risk via the Charlson Comorbidity Index

Julia Wainger

Effects of Surgeon and Hospital Case Volume on 30-Day Outcomes for Renal Cancer Nephrectomies

George Zhang

Does neighborhood disadvantage adversely affect post-operative outcomes for rectal cancer?

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

8:30-10:30 **Moderators: Marie Diener-West Oluwafemi Owodunni**

- Ahmed Ibrahim Ahmed** *Does insurance determine the setting for Breast-Conserving Surgery: An analysis of data from HSCRC*
- Nicole Fischer** *Angiotensin-Converting-Enzyme Inhibitors Protective Against Uterine Fibroid Development*
- Kaitlyn Hardell** *Age-related changes in cancer survival after treatment*
- Martha Kirabo** *Predictors and longitudinal trends of HAART disuse among HIV positive participants in the Rakai Community Cohort Study (RCCS)*
- Heng-Yu Lin** *Association of Speech in Noise Perception on the Measures of Hearing Handicap*
- Fatima Qamar** *Assessment of trends in surgical outcomes in US in patients with metastatic breast cancer*
- Anna Marie Young** *Association of asymptomatic treatment of Trichomonas infection with preterm delivery*

Health Systems & Policy Concentration I

8:30-10:30

Moderators: Mary Fox

Rachel Presskreicher

Dinesh Arora

Meeting the Unmet: The Unusual Way

Maryam Ghariban

Assessment of Zoning Policies and the Effect on DWI Incidence Surrounding a Dry Territory

William Nguyen

COST-EFFECTIVENESS OF DESCOVY VERSUS GENERIC TRUVADA: A COMPARISON OF DIFFERENT SCENARIOS

Manish Sreevatsava

Understanding the impact of private equity firms buying up medical practices. Focusing impact on cost of care and quality of care for patients

Michaela Whitelaw

Menstrual Equity in the United States: An issue of Public Health, Justice, and Policy

Health Systems & Policy Concentration II

8:30-10:30

Moderators: Shivam Gupta

Nukhba Zia

Brian Chen

Methods of Physician Network Identification and Applications Towards Quantifying Physician Care Coordination

Sanjay Goyal

Identification of Barriers and Assessment of Use of Predictive Algorithms for Referral of Maternal Cases in Public Health Settings

Laura Mansilla

U.S. Immigration Enforcement Policy: Implications for Pregnant Women in Detention Facilities

Rameet Sachdev

A Meta Analysis Exploring Effectiveness of Post-mastectomy Radiation Therapy in Breast Cancer Patients with 1 to 3 Positive Lymph Nodes: Implications for LMIC's

Jean Marc Tshivuila

Evaluation of the Trends of Methods Mix of Contraceptive Prevalence Among Women Aged 15-24 years in Kinshasa, in the Democratic Republic of Congo from 2013 to 2018

Public Health Topics I

8:30-10:30

Moderators: Keith West

Paulani Mui

Mina Akhavan

Utilization of Facebook for Patient Recruitment for a Community-Based Study

Doris Chen

Long-term cocaine use is associated with coronary plaque burden independent of HIV status

Naiqing Gu

Bringing patients into commercial insurance: A comparison of insurance systems in two countries

Hannah Johnson

A proposed multi-site mixed methods study on law enforcement-involved post-opioid overdose outreach programs

Benjamin Kahn

Understanding and Characterizing Vaccine Hesitancy in South Asia: A Scoping Literature Review and Analysis

Buyan Li

Enhance the Role of Primary Care Institutions in Chronic disease management in China: a literature review

Hana Schwartz

Assessing the Risk of Bias in Recent Developments of Predictive Models of Emergency Department Utilization

Ahsan Zil-E-Ali

Survival and Morbidity Outcomes of Penetrating Injury to Great Vessels of Thorax

Public Health Topics II

8:30-10:30

Moderators: Randy Bryant

Kayla Tormohlen

Ezinne Akudinobi

Stakeholders analysis of dysmenorrhea management and policies for adolescents in the United States

Li-Kuang Chen

Temporal Association Between Early Childhood Obesity and Pubertal Onset

Shilpa Gopinath

A population based study on the clinical and prognostic factors of breast cancer in Native American women from the Surveillance Epidemiology and End Result (SEER) Database

Keyan Javadi

Defining the Duration of an Oral Cholera Vaccine Antigen Shedding in the Stool of a Vaccinated Population in Nepal as Determined by RDT and PCR Methods

Masahiro Katahira

Mentoring nurses to improve quality of delivery care at primary health centers: Evidence from Bihar, India

Esther Lee

Establishing Respiratory Rate Percentiles for Preterm and Term Infants from birth to 2 Months of Life in Bangladesh

Daniella Malave

Operational Preparedness Checklist for INGOs Responding to Major Disease Outbreak Response

Caroline Rains

Wasted Food and Sustainable Urban Systems: Challenges and Research Needs

Public Health Topics III

8:30-10:30

Moderators: Laura Caulfield

Mohammad Darwish

Omar Cherkaoui

The Invisible Unmarried of Morocco: Analysis of Family Planning Needs and Policies

Elizabeth Golightly

The Cure Violence model: A literature review of its impact on urban gun violence

Gurpreet Kaur

Impact of conflict on safe delivery programming in Nigeria

Nelson Malone

Changes in Penetrating Injury Patterns/Trauma Outcomes in Baltimore City Surrounding the Death of Freddie Gray Jr. in 2015

Sara Wallach

The Battle to Ban: The Practice of LGBTQ+ Conversion Therapy and International Efforts to Eliminate It

Public Health Topics IV

8:30-10:30 **Moderators: Donna Strobino Niranjani Nagarajan**

- Sadia Arshad** *GDF 15 and risk of lower-extremity peripheral artery disease in the Atherosclerosis Risk in Communities (ARIC) Study*
- Kaitlyn Ciampaglio** *A Spatial Analysis of Alcohol Outlets Surrounding the Navajo Nation in Arizona*
- Brian Fung** *Analysis of the 21st Century Cures Act on Reducing Clinician Burden Attributable to Health Information Technology & Electronic Health Records*
- Paavani Jain** *Isolation analyses among disabled older women: The Women's Health and Aging Study I*
- Mikaela Kelly** *"I Get Called It All" Exploring the terminology preferences of young women impacted by commercial sexual exploitation*
- Ashni Mathew** *Social Interactions in HOPE VI Mixed-Income Communities: The State of Evidence*
- Tzu-Miao Pu** *Psychological pain among people who use drugs*
- Kirtana Viswanathan** *Association between Leukocyte Telomere Length and Infectious Outcomes after Elective Surgery*

Public Health Topics V

8:30-10:30

Moderators: Andrea Ruff

Jeffrey Hardesty

Jennifer Baker

Keeping Maryland's Seniors Engaged: Assessing the Impact of Maryland's Community for Life Program on Older Adult Social Isolation

Zoe Demko

Universal ART and Treatment Adherence among People Living with HIV in Rio de Janeiro, Brazil

Rebecca Fowler

Systematic Review of Service Provisions for Intimate Partner Violence Among Black Gay and Bisexual Men

Qifan Hu

Youth vaping in U.S. and China: a literature review of health risks, epidemic trend, policies, and upcoming challenges

Yunjeong Kim

Six-month monitoring of nutritional status among child participants of Positive Deviance/Hearth program in rural Bangladesh

Darcy Milburn

Assessing Hospital Policy & Practice Re. Medical Debt Collection

Eli Pousson

The Effects of Vacant Housing Demolition and Vacant Lot Stewardship on Health and Safety

Kristen Vescera

Veteran Identity Modeling: A Thematic Analysis

Public Health Topics VI

8:30-10:30

Moderators: Jackie Agnew

Daniel Antiporta

Aanika Balaji

An Analysis of a Multidisciplinary Immune-Related Toxicity (IR-Tox) Program for Immune-Related Adverse Events: A 2-Year Experience

Katherine Elfer

Cancer Incidence and Screening Guidelines for Transgender Individuals: A Scoping Review

Rebecca Florsheim

Particulate Matter Pollution and Health: A Literature Review and Presentation of Novel Findings

Kyle Hill

Indigenous Resilience: Exploring the Relationship of Cultural Connectedness to concepts of wellness and in Great Lakes Anishinaabeg in U.S. and Canada

Ryan Koski-Vacirca

Patient welfare: analyzing three federal surprise medical billing solutions

Neha Misra

Determining a relationship between severity of cicatricial disease and severity of trichiasis in a hyper endemic district of Tanzania

Bernardo Pessoa

Secondary ovarian cancer from colorectal metastasis: a systematic review and meta-analysis

Alia Sunderji

Causes of Mortality among Wayuu Children in Colombia

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

11:00-1:00

Moderators: Rosa Crum

Albert Osei

Jihad Al-Khatib

Price Transparency in Vascular Surgery: Assessing Predictor Variables of Total Charge for a Femoral-Popliteal Bypass in an All-Payer Rate-Setting System

John Erhabor

Differences in the impacts of traditional cardiovascular risk factors on coronary heart disease and stroke among blacks and whites in the US population

Ting-Wei Hsu

Post-operative outcomes of bariatric surgery in patients with Crohn's disease

Brittany Jenkins

Differences in co-morbidity and modifiable lifestyle risk factors in African-American female cancer survivors

Nana Oduro

Abortion care in Ghana: A secondary analysis of the 2017 Ghana Maternal to determine predictors of uptake of post abortion contraception

Kuang-Heng Wang

Determine the association between Traumatic Experience of Childhood Abuse and Resilience among Adults with or without the Who Are experienceing of Homelessness in Baltimore City since 2016

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

11:00-1:00 **Moderators: Marie Diener-West Oluwafemi Owodunni**

Janice Allotey *Determinants of Phthalate Exposure in Latino Workers in the US*

Yolanda Arthur *Determination of Preventative Health Care services vary depending on HIV status in Baltimore*

Eric Broni *Blood Biomarkers for Neonatal Hypoxic Ischemic Encephalopathy in the absence of maternal sentinel events*

Tyler Fan *Cardiovascular and Metabolic Scaling in CARDIA*

Leah Froehle *Independent Association Between Alcohol Intake and Bacterial Vaginosis*

Emily Pond *Correlates of PrEP Knowledge Among Women at Risk for HIV*

Infectious Diseases Concentration

8:30-10:30

Moderators: Clive Shiff

Kawsar Talaat

Erin Beasley

Monkeypox Medical Countermeasures in Low-income and High-income Countries

Vignesh Chidambaram

Effects of hypertension and calcium-channel blockers on TB treatment outcomes

Sophia Shea

The Utilization of Community Health Worker-Delivered Treatment for Acute Malnutrition in Humanitarian Contexts

Nyan Lynn Tun

Impact of Isoniazid Adherence on TB Incidence and Mortality in HIV Infected Individuals by Week 96

Sophia Winchester

Surgical Outcomes from Hepatitis C Lung and Heart Transplants

Zoe Demko

Universal ART and Treatment Adherence among People Living with HIV in Rio de Janeiro, Brazil

MPH/MBA Program

11:00-1:00 **Moderators: David Chin** **Paul Whong**

Salma El Marjiya Villarreal *Surgical Ecosystem: statewide evaluation of hospital characteristics and distribution of surgical services*

Vadi Esmailzadeh *The Role of Value Assessment in Drug Pricing Policy*

Michael Yong *Cost-effectiveness analysis of a new m Health school hearing screening program and telemedicine referral system in Alaska*

Eric Young *Evaluating the Implementation of CMS's Primary Care First Program*

Banda Khalifa *CORRELATES OF RECENT HIV/STI TESTING, STIGMA AND MENTAL HEALTH AMONG FEMALE SEX WORKERS IN THE GAMBIA: A CROSS-SECTIONAL ANALYSES*

Priya Mysore *Assessing Trustedness for Institutions working in LMICs*

Rie Tai *Developing an Outpatient Cancer Clinic in Northern Kolkata, India*

Annie Sanford *The Distillation Project*

Jiahe Liang *A Systematic Survey of 2019 Newly Approved Molecular Entities and Associated Manufacturer Sponsored Patient Solution Programs*

Yiyu chen *10-year China Health Care Reform progress and future policy proposals in equity among access, quality, and cost*

Public Health Topics VII

11:00-1:00

Moderators: Andrea Ruff Isaac Botchey

James Bien

Screening Children for Adverse Childhood Experiences by Indiana Pediatricians

Catherine Fischer

Is there added value to reanalyze clinical diagnostic data using Watson for Genomics?

Sonia Herrera Arevalo

Proposed Latin American School of Malariology for Elimination: Education and Training for Malaria Elimination

Eric Kramer

Med-Psych Units and Medical Education

Anna Najor

Structure and personal vulnerabilities associated with housing status among women who sell sex in Baltimore, Maryland

Esosa Nosakhare

Management of Neonatal abstinence syndrome - A review of hospital-wide quality improvement initiatives

Laura O'Sullivan

Antimicrobial Stewardship Training for Veterinary Students: An Educational Analysis

Yi Sun

Mental Health Disorders and Interventions among Transgender Adolescents after 2000: A Narrative Review

Public Health Topics VIII

11:00-1:00

Moderators: Randy Bryant

Kayla Tormohlen

Brady Campbell

Patient Outcomes in Blunt Liver Injury with Associated Burn Injury: A review of the National Trauma Data Bank

Semra Etyemez

Documented medical and neurobehavioral conditions in Autism Spectrum Disorder: The role of intellectual disability (ID) and child sex

Norma Ferraro

Transition to adolescence as an opportunity: Improving multiple health outcomes through parenting skill enhancement

Waqas Haque

Implications of the 2019 ACC/AHA Primary Prevention Guidelines for Asymptomatic South Asian Individuals Living in the US: The Mediators of Atherosclerosis in South Asians Living in America (MASALA) Study

Yaa Kwamong

Maternal Mid-Pregnancy 1-hour glucose screening test results and birth outcomes in an urban low income minority US population

Sophie Neuner

A Culturally Congruent COVID-19 Response in Karuk Aboriginal Territory: Analysis of Strengths, Vulnerabilities, Threats and Opportunities

Eniola Oluyemi

Racial Disparities in Breast Cancer Survival: A focus on imaging access

Weibo Shao

Literature Review of Non-profit Organisation working on increase accessibility and lower the price of generic drugs

Public Health Topics IX

11:00-1:00

Moderators: Jackie Agnew

Daniel Antiporta

Mihir Chaudhary

Assessing the Effect of Clinical Guidelines on the Utilization of Spinal MRI in the Obunded Adult Blunt Trauma Patient Over Time

Tolulope Fashina

Text message reminders for pediatric immunizations: An assesment of a non-governmental organization's program in Western Nigeria

Hala Hamadah

Existing ICU Preparedness Plans for Respiratory Virus Pandemics

Khansae Nowir

FACTORS BEHIND FAILURE TO TIMELY ESCALATION OF CARE IN PEDIATRICS SETTING

Opeyemi Oladapo-shittu

The Impact of E-Cigarettes on Adverse Pregnancy Outcomes

Neha Shanker

Exploring the threshold concept in chemical risk assessment: origins, current practice, and future directions

Rachel Stinson

Surge Capacity Building for an Emergency Department in a High Income Setting during COVID-19

Katherine Zellner

Analysis of Patterns in Dietary and Accelerometry Data in NHANES