

- **We will begin momentarily.**
- Audio will be through your computer speakers.
 - Make sure your speakers are on and the volume is turned up.
- If you have no sound once the webinar starts, click the Audio Broadcast Icon (🔊) in the Participants box on the right side of your screen.
- If you experience any technical issues during the webinar, please send a note through the **Chat box** to “AAMC.”
- Type your questions in the **‘Q&A’ box** at the bottom right of your screen and send to “All Panelists.”

The screenshot displays the right-hand side of a webinar interface. At the top, the 'Participants' section shows 'Speaking:' followed by 'Panelists: 1' (AAMC Meetings (Host)) and 'Attendees: 1' (Attendee 1 (me)). A red arrow points to the audio broadcast icon (🔊) in the bottom right of the Participants box. Below this is a blue bar with the text 'View all attendees...'. The 'Chat' section is highlighted with a green circle and shows a message from 'AMSA Webex3 to All Participants' with the text 'Welc'. Below the chat is a 'Send to:' dropdown menu with 'Hos AAMC' selected. The 'Q&A' section is also highlighted with a green circle and shows 'All (0)'. Below the Q&A section is a red text prompt: 'Type your questions here.' At the bottom, the 'Ask:' dropdown menu has 'All Panelists' selected, and a text input field contains the instruction: 'Select a panelist in the Ask menu first and then type your question here. There is a 256-character limit.'



Tomorrow's Doctors, Tomorrow's Cures

CDC's Epidemic Intelligence Service (EIS): A Unique Fellowship for Physicians

March 9, 2016
7:00 – 8:00 p.m. EST

Learn

Serve

Lead



Association of
American Medical Colleges

Welcome & Introductions: Malika Fair, M.D., M.P.H.



- Director of Public Health Initiatives, AAMC
- Assistant Clinical Professor, Department of Emergency Medicine, The George Washington School of Medicine and Health Sciences
- M.D., University of Michigan Medical School
- Emergency Medicine Residency, Carolinas Medical Center

Public Health Initiatives at AAMC

- *Diversity Policy and Programs* promotes, advances, and drives diversity and inclusion along the medical education continuum with work in three portfolios:
 - Human Capital
 - Organizational Capacity Building
 - ***Public Health Initiatives***
- Improving the integration of public health concepts into medical education and seeking to enhance and expand a diverse and culturally prepared health workforce.

Academic Partnerships to Improve Health: AAMC-CDC Cooperative Agreement

- CDC awarded the AAMC and three other national academic associations funds to:
 - Support enhanced teaching of concepts of population health
 - Provide practical, hands-on experience at the community level for public health, medical, and nursing students.



APIH
**Academic Partnerships
to Improve Health**

Innovation • Integration • Impact



Opening Remarks: Rebekah Apple, M.A.



- Senior Manager of Programs, AMSA
- Designs & delivers educational and professional development programs for physicians at all stages
- Teaches undergraduate health care ethics at St. Petersburg College
- Masters degree in Bioethics

Moderator: Joshua Mott, Ph.D., M.A., EMT-P



- Chief, EIS Program
- Branch Chief, Epidemiology Workforce Branch, Division of Scientific Education and Professional Development
- Epidemic Intelligence Service 1998-2000
- Ph.D. in community health and epidemiology, University of Illinois at Champaign-Urbana

What is the CDC Epidemic Intelligence Service (EIS)?

- A two-year post graduate experience and on-the-job training for health professionals interested in applied epidemiology
- “Training through service”



Historical Background



- July 1946: CDC established with mandate to help states control communicable diseases
- October 1947: CDC was assigned responsibility for providing epidemic aid to states
- July 1951: Epidemic Intelligence Service (EIS) established

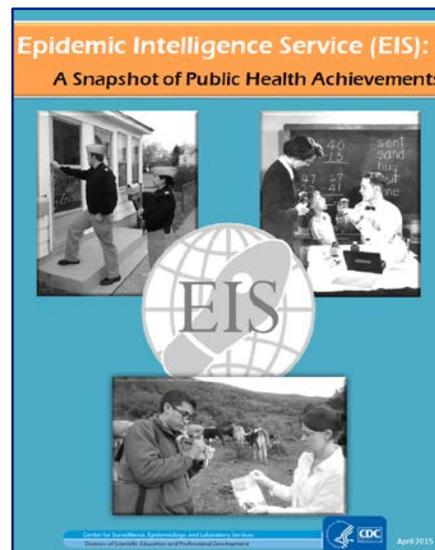
Physicians in EIS: 60+ Years of training, service, and response

- 1950s:**
- Polio Vaccines
 - Lead Paint
 - H2N2 Pandemic

- 1960s:**
- Smallpox eradication
 - Cancer clusters
 - War in Nigeria
 - H3N2 Pandemic

- 1970s:**
- Lead in fuel
 - Lassa Fever
 - Ebola Virus Disease
 - Legionella
 - Reye's Syndrome

- 1980s:**
- Toxic Shock Syndrome
 - HIV Pandemic
 - Salmonella in Oregon



- 1990s:**
- Cryptosporidium
 - E-Coli
 - West Nile Virus

- 2000s:**
- 9-11
 - Anthrax attacks
 - SARS
 - Hurricane Katrina
 - H1N1 Pandemic

- 2010s:**
- Haiti Earthquake
 - Mediterranean Coronavirus
 - Ebola Virus Disease
 - Zika Virus
 - ????

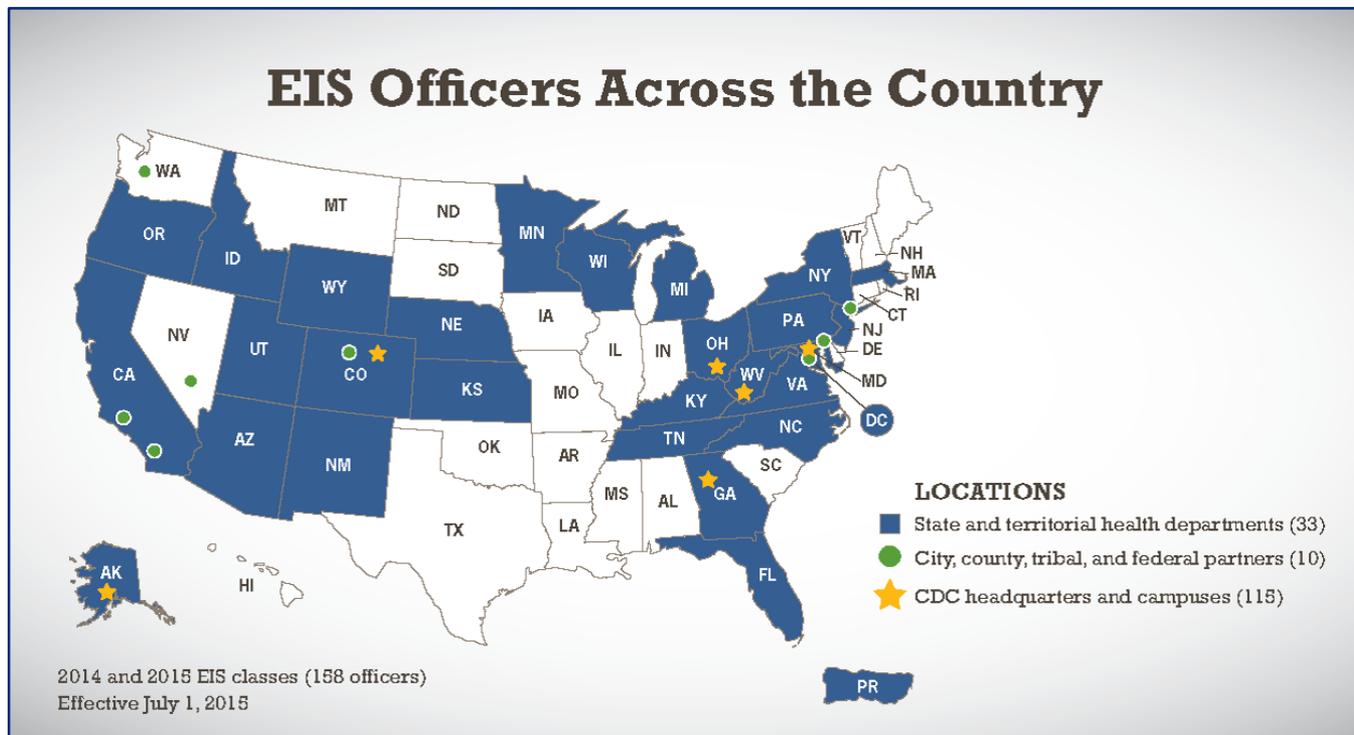
My Journey, Starting with EIS...

- 1998–2000 EIS -- Air Pollution and Respiratory Health
- 2000–2004 Epidemiologist and Team Lead in Air Pollution
- 2004–2006 Bioterrorism Preparedness and Response Program
- 2006–2009 Influenza in Atlanta
- 2009–2011 Influenza at WHO -- Regional Office for Europe
- 2011–2015 Influenza Program Director, Nairobi, Kenya
- 2015–present Chief, EIS Program, CDC



Current EIS Officers (N=158)

- 33 assigned to state and territorial health departments
- 10 assigned to city, county, and federal partners
- 115 assigned to CDC HQ and campuses





Come join us!

Panelist: Current EIS Officer Prathit A. Kulkarni, M.D.



- Epidemic Intelligence Service 2014-2016
- Assigned to the New Jersey Department of Health
- M.D. from Baylor College of Medicine
- IM/Peds Residency, Baylor College of Medicine

Why I Joined EIS

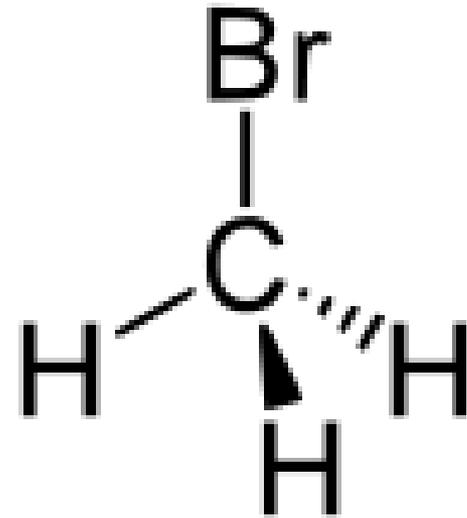
- Impact health at the population level
- Understand work of public health departments
- Solve disease outbreaks
- Interact with and learn from CDC experts
- Prepare for future career opportunities



STATE OF NEW JERSEY

DEPARTMENT OF HEALTH

Projects



Projects

Centers for Disease Control and Prevention

MMWR

Morbidity and Mortality Weekly Report

Morbidity and Mortality Weekly Report

Severe Illness from Methyl Bromide Exposure at a Condominium Resort — U.S. Virgin Islands, March 2015

Prathit A. Kulkarni, MD¹; Mary Anne Duncan, DVM²; Michelle T. Watters, MD, PhD³; Leah T. Graziano³; Elena Vaouli, MPH³; Larry F. Cseh, MS²; John F. Risher, PhD²; Maureen F. Orr, MS²; Tai C. Hunte-Cesar, MD⁴; Esther M. Ellis, PhD⁴ (Author affiliations at the end of text)

Projects

This is an official
CDC HEALTH ADVISORY

Distributed via the CDC Health Alert Network
January 27, 2016, 1030 EST (10:30 AM EST)
CDCHAN-00386

**CDC Urging Dialysis Providers and Facilities to Assess and Improve
Infection Control Practices to Stop Hepatitis C Virus Transmission in
Patients Undergoing Hemodialysis**

Projects



Future Plans

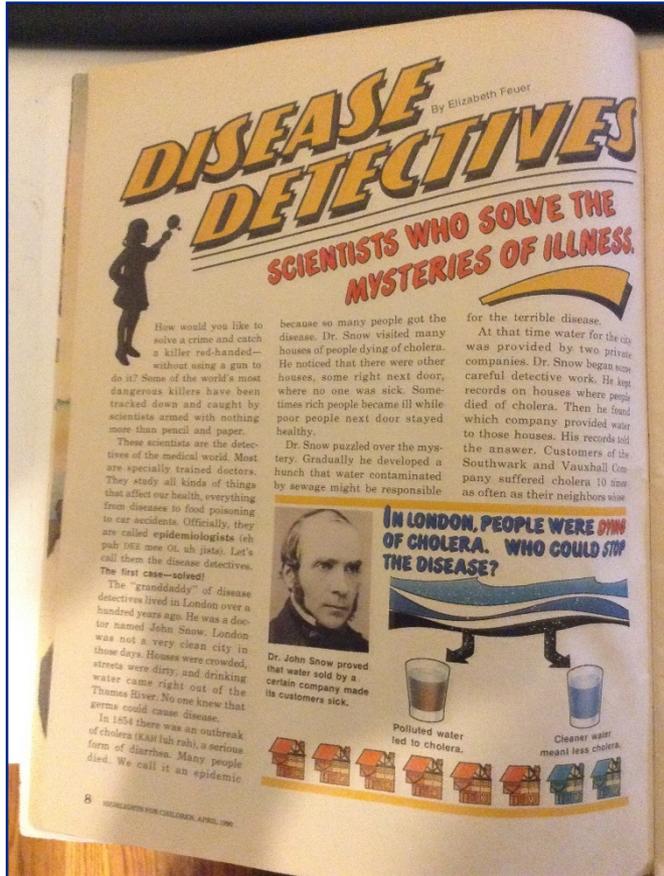
- Adult Infectious Diseases fellowship at Baylor College of Medicine
- Combine clinical and public health experience at medical school/academic hospital, public health school, or public health agency
- Contact: ydu2@cdc.gov

Panelist: Current EIS Officer Amelia (Amy) Kasper, M.D., M.H.S.



- Epidemic Intelligence Service 2014-2016
- Assigned to the Health Studies Branch, Division of Environmental Hazards and Health Effects
- M.D., St. Louis University SOM
- IM residency, Washington University in St. Louis, Barnes-Jewish Hospital/
- Fellowship in epidemiology, Yale School of Public Health/FIOCRUZ

The Who, What, Where, When, and Why



The Who, What, Where, When, and Why









Panelist: EIS Alumnus

Michael Gronostaj, M.D., Pharm.D., M.P.H.



- Medical Epidemiologist
Field Support Response Team
Epidemiology Workforce Branch
- Lieutenant Commander in the
United States Public Health
Service
- Epidemic Intelligence Service
2011-2013
- M.D., Pharm.D., M.P.H.,
and IM Residency at Rutgers
University, New Jersey

Why I Joined EIS

- Wanted to make big impact
- Studied EIS and public health in school
- Rotation during Internal Medicine residency with health department



Centers for Disease Control and Prevention

MMWR

Morbidity and Mortality Weekly Report

Weekly / Vol. 60 / No. 41

October 21, 2011

Notes from the Field

***Yersinia enterocolitica* Infections Associated with
Pasteurized Milk — Southwestern Pennsylvania,
March–August, 2011**







After EIS

- Preventive Medicine Residency/Fellowship at CDC
 - Waterborne Disease Prevention Branch
- Medical Officer, Immunization Safety Office
- Medical Officer, Epidemiology Workforce Branch, EIS Program
- Contact: vie0@cdc.gov

Panelist: EIS Alumnus Wences Arvelo, M.D., M.Sc.



- Lead for Selection and Recruitment, EIS
- Former Lead Medical Epidemiologist, CDC International Emerging Infections Program (IEIP)
- Epidemic Intelligence Service 2005-2007
- M.D., University of Puerto Rico School of Medicine
- IM residency, Boston Medical Center

Eligibility

- Physicians (M.D., D.O.)
 - Graduate of allopathic or osteopathic medical school
- One year of clinical experience
 - Residency training preferred
- Active, unrestricted, U.S. license to practice your clinical specialty
- Additional details at www.cdc.gov/eis/application.html

Timeline of Key Events

Application		Selection Process			EIS	
Opens	Closes	Reviews	Interviews	Decisions	Conference	Summer Course
Mid-May	Mid-Aug	Sep	Oct-Nov	Dec-Jan	Apr	July 1

CDC Medical Student Electives

- **Epidemiology Elective Program**
 - 6–8 week rotation for 4th-year medical students at CDC Headquarters
 - Introduction to public health, preventive medicine, and principles applied epidemiology
 - www.cdc.gov/EpiElective
- **CDC-Hubert Global Health Fellowship**
 - 6–12 week international project for 3rd- and 4th-year medical students
 - Public health experience in a global setting
 - www.cdc.gov/HubertFellowship





CDC'S EPIDEMIC INTELLIGENCE SERVICE (EIS): **PUBLIC HEALTH HEROES**

*“EIS is the world’s best introduction to
interventional epidemiology:
finding problems fast, and stopping them.”*

— Tom Frieden, MD, MPH, CDC Director

- A 60+ year history of success in training boots-on-the-ground disease detectives
- A training opportunity unlike any other for a career with far-reaching impact
- EIS officers can improve the lives of thousands and effect change in a community or entire country

Visit: www.cdc.gov/EIS

Q&A Session

Type your questions in the 'Q&A' box at the bottom right of your screen and send to "All Panelists"

The screenshot displays the Cisco WebEx Event Center interface. On the left, a presentation slide titled "Contact Information" is shown. The slide content is as follows:

Contact Information

Malika Fair, M.D., M.P.H., FACEP
Director, Public Health Initiatives
Phone: (202) 778-4773
E-mail: mfair@aamc.org

The AAMC logo is visible in the bottom right corner of the slide.

On the right side of the interface, the "Participants (10)" panel is visible, showing the current speaker as "AMSA Webex3" and two panelists: "AMSA Webex3 (Host)" and "AMSA Webex3". Below this, the "Attendees" list shows "Katy Carkuff (me)".

The "Chat" panel shows a message from "AMSA Webex3" to "All Participants": "Welcome to tonight's HEWA presentation. We will be starting in a couple minutes." Below the chat is a "Send to" dropdown menu set to "Host" and a "Send" button.

The "Q&A" panel is currently empty, showing "All (0)". Below this panel, the text "Type your questions here." is displayed in red. At the bottom of the interface, the "Ask:" dropdown is set to "All Panelists", and there is a "Send" button next to a text input field for questions.

Q&A Moderator



Joshua Mott, Ph.D., M.A., EMT-P
Chief, EIS Program
CDC

Closing Remarks



Malika Fair, M.D., M.P.H.
Director of Public Health Initiatives
Association of American Medical Colleges

MedEdPORTAL® Public Health Collection



Public Health Collection

MedEdPORTAL's Public Health Collection is the online destination for identifying, developing, and sharing resources aimed at improving the public health content along the continuum of medical education.

www.mededportal.com/icollaborative/publichealth

Consider submitting your curricular innovation to be included in the **Public Health Collection** of AAMC's MedEdPORTAL®, a free, cross-indexed suite of services that aims to equip healthcare professionals across the continuum with effective and efficient educational tools to improve patient care.

Public Health Pathways



An online searchable database of domestic and international public health training opportunities for:

- ✓ Pre-med/Pre-health Students
- ✓ Medical/Graduate Students
- ✓ Residents/Postdocs
- ✓ Early Career Physicians & Scientists

Visit **Public Health Pathways** at:
www.aamc.org/phpathways



Tomorrow's Doctors, Tomorrow's Cures

Learn

Serve

Lead

Funding for this webinar is made possible by the Centers for Disease Control and Prevention (cooperative agreement number 1U36OE000004-01). The views expressed by the speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services, nor does the mention of trade names, commercial practices, or organizations imply endorsement by the U.S. Government.

Association of
American Medical Colleges