**Field Epidemiology Seminar Agenda**

Friday, June 2, 2017

Fredericksburg, Virginia

Fredericksburg Expo and Conference Center

8:30 a.m. **Registration**

9:00 a.m. **Welcome**

Diane Woolard, PhD, MPH

Division Director, Division of Surveillance and Investigation

**SESSION 1**

Moderator – Stephanie Dela Cruz, Manager, Epidemiologic Support Group,

Division of Consolidated Laboratory Services

9:10 a.m. **Cup O’ Clostridium: A Laboratory Investigation of a Ramen Night**

***C. perfringens* Outbreak**

Jessica Maitland, Ph.D.

Senior Scientist, Division of Consolidated Laboratory Services

By the end of this session, the participant will be able to:

* *Describe food and clinical sample testing algorithms and limitations in a laboratory investigation of a suspected*C. perfringens *toxin-mediated outbreak.*
* *Recognize the importance of the relationship between environmental and clinical laboratories during the investigation of an outbreak.*
* *Identify critical control points necessary to prevent* C. perfringens *growth in a food service environment.*

9:30 a.m. **Breakfast of Champions - An Udderly Horrific Outbreak of *E. coli* Associated with Raw Milk Consumption**

Daniel Ferrell, MPH

District Epidemiologist, Rappahannock-Rapidan Health District

By the end of the session, the participant will be able to:

* *Identify key characteristics of a STEC outbreak.*
* *Observe/identify the differences between licensed/inspected facilities and herd-share programs.*
* *Recognize the importance of inter and intra-agency collaboration during outbreak investigations.*

9:50 a.m. ***Staphylococcus aureus*: The Uninvited Wedding Guest**

Melissa Hamilton, MPH

District Epidemiologist, Lenowisco Health District

By the end of the session, the participant will be able to:

* *Describe the importance of Environmental Health and Epidemiology partnerships during outbreak investigations.*
* *Identify the importance of proper food handling for the prevention of foodborne illness.*
* *Describe the common sources and symptoms of* Staphylococcus aureus *gastrointestinal illness.*

10:10 a.m. **Same Caterer, Different Names: A Multi-District Foodborne Norovirus Outbreak**

Okey Utah, MBBS, MPH

District Epidemiologist, Richmond City Health District

By the end of the session, the participant will be able to:

* *Describe best practices in specimen collection and coordination.*
* *Explain the synchrony of action between local and state epidemiologists during multi-jurisdictional outbreaks.*

10:30 – 10:45 a.m. **Break**

**SESSION 2**

Moderator - Caroline Holsinger, DrPH, CPH, Division Director

Virginia Department of Health, Division of Environmental Epidemiology

10:45 a.m. **Do We Have Enough Staph? A Look at Recreation Center Cleaning Policies and an On-Campus MRSA Cluster**

Laura R. Young, MPH, CIC

District Epidemiologist, Henrico Health District

By the end of the session, the participant will be able to:

* *Identify scenarios in which a bio-burden detector can be used as a teaching tool.*
* *Discuss the importance of cleaning schedules in a high-use, non-medical setting.*
* *Appreciate the importance of resources, such as PFGE testing, made available by DCLS during outbreak investigations.*

11:05 a.m. **Fighting the Resistance: The War Against *Acinetobacter baumannii***

Melissa M. Arons, MPH, RN

District Epidemiologist, Alexandria Health District

By the end of the session, the participant will be able to:

* + - * *Determine the important steps in an investigation and site visit for an MDR* Acinetobacter *cluster in a long term care facility.*
      * *Develop an understanding of Antibiotic Stewardship and its role in preventing Multi-Drug Resistant, Hospital Acquired Infections in long term care facilities.*
      * *Describe facility appropriate responses to increased cases of MDR* Acinetobacter *that are effective measures to control an outbreak.*

11:25 a.m. ***mcr-1* in my Gene Pool? Two Epidemiologic Investigations into Resistance to an Antibiotic of Last Resort**

Ana Colon, MPH  
Eastern Regional Epidemiologist, VDH Division of Surveillance and Investigation

By the end of the session, the participant will be able to:

* + - * *Describe why the emergence of this mobile colistin resistance gene (*mcr-1*) is a reason for concern in the battle against antimicrobial resistant bacteria.*
      * *Describe aspects of a comprehensive epidemiological case investigation of an antimicrobial resistant bacterium.*
      * *Explain the role of VDH, DCLS, CDC and healthcare partners in the identification, control and prevention of antimicrobial resistance relevant to this* mcr-1 *case investigation.*

11:45 a.m. **Tuberculosis Bridges Madison County**

Angela Armstrong, RN, MSN

Public Health Nurse Senior, Rappahannock-Rapidan Health District

By the end of the session, the participant will be able to:

* *Recognize the value of early communication with community leaders.*
* *Appreciate the unique challenges associated with a contact investigation in a transient, multi-cultural population*
* *Describe the importance of a well-planned contact investigation*

2:05 – 1:15 p.m. **Lunch**

**SESSION 3**

Moderator - [B. Keith Skiles, MPH](mailto:Keith.Skiles@vdh.virginia.gov)

Director, Division of Shellfish Sanitation

1:15 p.m. **The Fellowship of the Wellspring: A District’s Epic Tale of Multiple Norovirus Outbreaks**

Jonathan Falk, MPH

District Epidemiologist, Central Shenandoah Health District

By the end of the session, the participant will be able to:

* *Explain when you might use a case-control study during an outbreak response.*
* *Describe the types of laboratory tests typically used to determine if drinking water is safe.*
* *List three public health concerns associated with renovated barns and rustic facilities used as event venues.*

1:35 p.m. **Hey U, get out of my Water!**

Louise Lockett, MPH, CIC

District Epidemiologist, Crater Health District

By the end of the session, the participant will be able to:

* + - * *Describe standards of uranium in drinking water and expected levels in humans.*
      * *Identify regulatory differences between different well categories.*
      * *Describe the health impacts of exposure to uranium in drinking water.*
      * *Describe public health interventions following identification of elevated uranium levels in well water.*

1:55 p.m. **A Species to Recall from Late Summer to Fall, *Alexandrium monilatum*, a Harmful Algal Bloom Coming to a Coastal Waterbody Near You**

Margaret Smigo, MS

Waterborne Pathogens Control Program Coordinator, VDH Division of Environmental Epidemiology

By the end of the session, the participant will be able to:

* *Recognize harmful algal blooms (HABs) and the potential health effects they can cause in humans/pets/wildlife.*
* *Report blooms to the Virginia HAB Task force.*
* *Distinguish the species* Alexandrium monilatum*, a bioluminescent HAB of Virginia’s coast each summer/fall capable of producing potent ichthyotoxins which may have human health implications.*
* *Recall resources that can facilitate epi-investigations for exposures to HABs and that they can be found at* [*www.HarmfulAlgaeVA.com*](http://www.HarmfulAlgaeVA.com)*.*

2:15 – 2:30 p.m. **Break**

**SESSION 4**

Moderator: Wade Kartchner, MD, MPH

Health Director: Rappahannock-Rapidan Health District

2:30 p.m. **Syphilis Strikes Back: The Changing Epidemiology of Congenital Syphilis and Early Syphilis in Virginia**

Nan Haugan, MPH

STD Epidemiologist, VDH Division of Disease Prevention

By the end of the session, the participant will be able to:

* + *Describe recent trends of early and congenital syphilis diagnoses in Virginia.*
  + *Describe transmission, disease progression, and symptoms of syphilis infection in adults and infants.*
  + *Identify intervention opportunities for preventing congenital syphilis.*

2:50 p.m. **A Tale of Two Outbreaks: Hepatitis A in the Central Shenandoah Health District, 2016**

Laura Kornegay, MD, MPH

Health Director, Central Shenandoah Health District

By the end of the session, the participant will be able to:

* + - * *Identify the symptoms, modes of transmission and infective period of Hepatitis A.*
      * *Understand the basic elements of an epidemiologic investigation.*
      * *Understand the role of Hepatitis A vaccine in responding to a community Hepatitis A outbreak.*
      * *Understand the limitations of messaging when dealing with protected health information.*

3:10 p.m. **The Headache You do Not Want in Schoolchildren: Meningococcal Disease in Minors is a Major Problem**

Karen Shelton, MD, FACOG

Health Director, Mount Rogers Health District

By the end of the session, the participant will be able to:

* + - * *Identify skills necessary to accomplish contact investigation using multiple resources.*
      * *Identify the key characteristics of collaboration among community partners, which include local health care providers, emergency responders, school system, health department and out- of- state health departments, along with the local and out of state hospitals.*
      * *Describe the utilization of management guidance provided by subject matter experts among the regional, state health department and CDC.*

3:30 p.m. **Strawberries Wreak HAVoc on Summer: A Multistate Outbreak of Hepatitis A Associated with Imported Frozen Strawberries**

Seth Levine, MPH

Epidemiology Program Manager, VDH Division of Surveillance and Investigation

By the end of the session, the participant will be able to:

* + - * *Describe a multistate outbreak of Hepatitis A significantly affecting Virginia, associated with imported frozen strawberries.*
      * *Illustrate the importance of collaborative work during foodborne outbreak investigations among epidemiologists, environmental health service inspectors and laboratorians on the local, state and federal levels.*
      * *Demonstrate the benefit of genetic typing during outbreak investigations to identify cases of illness that may or may not be associated with a potential common source of infection.*

3:50 p.m. **Closing Remarks**

Laurie Forlano, DO, MPH

State Epidemiologist & Director, Office of Epidemiology

4:05 p.m. **Adjourn**