

Infectious Disease-Quarantine

The CSTE fellow will be based at the U.S. Centers for Disease Control and Prevention (CDC) Detroit Quarantine Station located at the Detroit Metropolitan Airport in Romulus, Michigan and at the Michigan Department of Community Health (MDCH) Bureau of Epidemiology, located in Lansing, MI. The Detroit Quarantine Station is one of 20 U.S. Quarantine Stations in CDC's Division of Global Migration and Quarantine (DGMQ), National Center for Infectious Disease. The mission of the Quarantine Stations is to protect the health of the public from communicable diseases through science, partnerships and response at U.S. ports of entry through use of federal regulations and authority. The CSTE fellow will gain a well-rounded field epidemiology experience within a unique setting of a federal quarantine station. Primary Quarantine Station activities include illness surveillance, response and communicable disease prevention activities at ports of entry including airports, maritime ports and land border crossings. Additionally, CDC Quarantine Stations monitor health documents of immigrants, refugees and asylees entering the United States for communicable disease conditions, monitor and regulate the importation of certain animals, biologic agents and vectors of disease as well as conduct inspections of cargo. CDC Quarantine Stations are also involved in planning and response for emergency public health preparedness activities. Each day, CDC Quarantine Stations work hand-in-hand with other federal agency partners including U.S. Customs and Border Protection, U.S. Fish and Wildlife Service, U.S. Department of Agriculture and the U.S. Food and Drug Administration as well as our local and state public health agency partners.

The MDCH is a highly respected and well recognized state public health agency. The mission of the MDCH is to protect, preserve, and promote the health and safety of the people of Michigan with particular attention to providing for the needs of vulnerable and under-served populations in a safe and healthy state where all people realize their fullest health potential and live enriched and productive lives. At MDCH, CSTE fellows will be fully integrated into zoonotic and vector-borne program activities including surveillance, investigation and case follow-up activities. Additionally, the CSTE fellow will have exposure to working with other state agencies including the Michigan Department of Agriculture and the Michigan Department of Natural Resources.

2. CSTE Fellow's anticipated day-to-day activities.

The CDC Detroit Quarantine Station Medical Officer, and primary fellow mentor, serves as a lead member of DGMQs aviation illness investigation team. As such, the CSTE fellow will be involved in airline illness surveillance and investigations, data analysis and reporting activities. Additionally, the CSTE Fellow will have the opportunity to assist in the development and revision of policies, procedures and research protocols for airline investigations. Other anticipated activities include responding to illness on in-bound international conveyances, assessment of immigrant, refugee and asylee health status, inspection of animals, cargo and other agents that pose a threat to human health and participating in public health preparedness and planning activities.

At the MDCH, the CSTE Fellow activities will include:

- Participation in surveillance and outbreak investigations for zoonotic and vector-borne diseases in Michigan
- Participation in regularly scheduled meetings within the Division of Infectious Disease and the Bureau of Laboratories
- Participation in existing state-level working groups on topics of zoonotic disease, including the Michigan Arbovirus Working Group, the Michigan Rabies Working Group, and the Michigan Avian Influenza Interagency Working Group
- Attendance at local and state level meetings on topics including public health, epidemiology and infectious disease
- Assisting with field investigations MDCH may undertake to better understand the epidemiology of zoonotic diseases in Michigan

3. Examples of potential projects that demonstrate opportunities for data analysis, outbreak field investigations and opportunities to work on interdisciplinary teams.

The CSTE Fellow will work closely with the CDC Detroit Quarantine Station and the MDCH Division of Infectious disease:

- Participate in the collection and analysis of disease surveillance data
- Participate in outbreak investigations for zoonotic and vector-borne diseases
- Work closely with the CDC Detroit Quarantine Station and MDCH staff on various disease prevention and control activities

4. Program or surveillance system evaluation component.

- Evaluate data collected on notification and outcomes to persons exposed to a communicable disease during air travel using DGMQs quarantine activity reporting system.

5. Role of fellow in State Emergency Preparedness plan.

The CSTE fellow will participate in public health emergency preparedness planning activities at the Detroit Quarantine Station. The Detroit Quarantine Station works closely with the MDCH Great Lakes Border Health Initiative on public health preparedness activities at Michigan's land, air and sea ports of entry.

Assignment Location: Detroit, Michigan

Primary Mentor: Curi Kim
Medical Officer
CDC Detroit Quarantine Station

Advanced Degrees: MD, Wayne State University (2002)

Curi Kim_Detroit Quarantine Station

MPH, University of Michigan (1998)

Secondary Mentor: Mary Grace Stobierski
Epidemiologist State Public Health Veterinarian for Michigan

Advanced Degrees: DVM, Michigan State University (1983)
MPH, University of Michigan (1989)