

Infectious Disease-Quarantine

Assignment Description:

The fellow will work with a group of over 100 public (mostly doctorate and Masters level) health professionals to learn about, and assist and eventually lead epidemiologic, surveillance, and preparedness projects and activities that focus on infectious disease in travelers. Specific projects include but not limited to the following:

- 1) Conduct contact investigations into contacts of index cases who have diseases of public health interests (TB, rubella, varicella, mumps, measles, etc) and recent domestic and international travel history
- 2) Design studies of new technologies (e.g. infrared thermal detection devices) to detect infectious disease among travelers
- 3) Maintain and analyze data from quarantine surveillance systems including Quarantine Activity Reporting Systems (QARS) and Maritime Illness and Death Reporting Systems (MIDRS)
- 4) Participate in influenza pandemic preparedness activities at ports-of-entry

Fellow's Anticipated Day-to-Day Activities: The fellow will initially work with QARS data to understand illness reporting from U.S. quarantine stations as well as compile the Daily Activity Report to document illness response at various ports-of-entry. The fellow will join a team working on one intermediate term project, and eventually develop his/ her own project.

Potential Projects:

1. Investigate the epidemiology of death during travel using QARS or Department of State datasets
2. Assess the utility of Emergency Medical System dispatch /response records as a Border Infectious Disease Surveillance (BIDS) Surveillance System
3. Participate in outbreak investigations
4. Conduct research on the effectiveness of non-pharmaceutical intervention on H1N1
5. Conduct investigations into contacts of passengers with TB and other infectious diseases

Role of the Fellow in Emergency Preparedness:

1. Work with the Port Activity Response Team to develop and assess pandemic and emergency preparedness plans at U.S. ports of entry
2. Participate in the Division of Global Migration and Quarantine (DGMQ) pandemic planning exercises conducted as well as CDC-wide emergency preparedness exercises

Location: Division of Global Migration and Quarantine, CDC

Atlanta, GA

Primary Mentors:

Dan Fishbein, MD

Associate Chief for Science

Quarantine and Border Health Services Branch

Division of Global Migration and Quarantine, CDC

Nina Marano, DVM, MPH

Branch Chief

Quarantine and Border Health Services Branch

Division of Global Migration and Quarantine, CDC

Secondary Mentor:

Gale Galland, DVM, MS

Zoonoses Team Lead

Quarantine and Border Health Services Branch

Division of Global Migration and Quarantine, CDC