An Update on Ebola Preparedness

August 18, 2015
Purpose

• Update on Ebola outbreak
• Preparedness and response efforts
• Monitoring of returning travelers by Communicable Disease Control and Prevention
2014 Ebola Outbreak in West Africa - Case Counts

### Countries with Widespread Transmission

<table>
<thead>
<tr>
<th>Country</th>
<th>Total Cases (Suspected, Probable, and Confirmed)</th>
<th>Laboratory-Confirmed Cases</th>
<th>Total Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guinea</td>
<td>3795</td>
<td>3329</td>
<td>2524</td>
</tr>
<tr>
<td>Sierra Leone</td>
<td>13428</td>
<td>8696</td>
<td>3951</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17223</strong></td>
<td><strong>12025</strong></td>
<td><strong>6475</strong></td>
</tr>
</tbody>
</table>

### Countries with Former Widespread Transmission and Current, Established Control Measures

<table>
<thead>
<tr>
<th>Country</th>
<th>Total Cases (Suspected, Probable, and Confirmed)</th>
<th>Laboratory-Confirmed Cases</th>
<th>Total Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liberia(^2) (as of May 9)</td>
<td>10666</td>
<td>3151</td>
<td>4806</td>
</tr>
<tr>
<td>Liberia(^3) (after June 28)</td>
<td>6</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>10672</strong></td>
<td><strong>3157</strong></td>
<td><strong>4808</strong></td>
</tr>
</tbody>
</table>
Avoid non-essential travel to Guinea and Sierra Leone. Use enhanced precautions when going to Liberia.

There is no travel ban from these countries.

Airport screening of passengers occurs at exit from all three countries.

Passengers from Liberia, Guinea and Sierra Leone traveling to the U.S. MUST arrive at JFK, Newark, Washington-Dulles, Chicago or Atlanta airports where there are enhanced screening processes.
## Public Health Emergency Preparedness Capabilities

<table>
<thead>
<tr>
<th>Capability</th>
<th>PHEP</th>
<th>HPP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Community Preparedness</td>
<td>X</td>
<td>X (Healthcare Preparedness)</td>
</tr>
<tr>
<td>2. Community Recovery</td>
<td>X</td>
<td>X (Healthcare Recovery)</td>
</tr>
<tr>
<td>3. Emergency Operations Coordination</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>4. Emergency Public Information and Warning</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>5. Fatality Management</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>6. Information Sharing</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>7. Non-Pharmaceutical Interventions</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8. Medical Countermeasure Dispensing</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10. Medical Surge</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>11. Mass Care</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>12. Public Health Laboratory Testing</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>13. Public Health Surveillance/Epidemiological Investigation</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>14. Responder Safety and Health</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>15. Volunteer Management</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
Assisted and participated in guidance development for EMS/911 call center. Worked with SFFD, SFPD, SFSD, ACC, SFO, SFMTA/transportation, 311
DOC Response

• DOC activated over 100 people between October 2014 and February 2015

• Information and Guidance
  – Developed and gave presentations for internal DPH employees and external partners
  – Created FAQ
  – Kept the medical community informed via Health Advisories

• Epi and Surveillance
  – Case and contact investigation
    • Forms and guidance created

• Containment
  – Monitoring protocols created and implemented
  – Update of isolation and quarantine protocols in coordination with City Attorney’s Office

• Environmental Health
  – Ebola waste management- Hazmat protocols, vendor contracts and checklist

• Medical Branch
  – Assessed hospitals
  – Provided guidance to the health care system including hospitals and clinics
Current Preparedness and Response Efforts- Part 1

• Incident management team (IMT) activated to review Ebola response, ensure ongoing objectives are met
  – Discuss monitoring issues
  – Review Ebola objectives
  – Identify critical gaps and implement solutions
  – Prepared to activate
Current Preparedness and Response Efforts- Part 2

• Developing process map
  – Working with internal partners on different scenarios
  – Include external DPH partners for high risk scenarios
  – Final product- process map that documents duties and actions of those involved in the response.

• Updating partners
  – Ongoing monthly calls with Infection Control Providers
  – Alerts to Medical Providers as recommendations change
  – Working closely with hospitals
“Setting the Standard”
Hospital Assessment Levels

• **Front Line Hospitals** (basic level)
  – Chinese Hospital
  – Saint Francis Memorial
  – St. Mary’s Medical Center
  – California-Pacific Medical Center

• **Assessment Hospital** (intermediate level)
  – San Francisco Veterans Administration Medical Center (*Meets DOD Standards*)

• **Treatment Center** (highest level)
  – University of California Medical Center
    • Mt. Zion Campus
Monitoring in San Francisco

• Since October, 80 travelers from Ebola-affected countries have been monitored by SFDPH
  – Depending on the traveler’s level of risk, monitoring is done by daily phone and/or video conference
  – An intake interview is done on every traveler to assess risk and establish rapport
  – Communicable Disease Public Health Nurses do the monitoring; they make every effort to make the process as convenient as possible for the travelers

• To date, zero of the travelers to California, including San Francisco, have been diagnosed with Ebola.
Take Home Points

- The Ebola Virus Disease outbreak is slowly coming under control, although cases continue to occur. Travelers from the affected region require ongoing monitoring.
- SFDPH remains ready to activate in the event that response needs outstrip current resources.
- Ebola preparedness/response has helped us build capacity and identify areas for growth for future communicable disease emergencies.