

# VIRAL HEMORRHAGIC FEVERS



**ALL SUSPECTED CASES OF VIRAL HEMORRHAGIC FEVERS MUST BE REPORTED IMMEDIATELY TO NAPA COUNTY PUBLIC HEALTH COMMUNICABLE DISEASE UNIT**

## **Contact Information:**

**During Business Hours:** (707) 299 -1499

**After Business Hours (Napa County Answering Service):** (707) 265 -3131

<b>Etiological Agents which can cause viral hemorrhagic fever (VHF):</b>
<ul style="list-style-type: none"><li>• Arenaviridae (Lassa, Junin, Machupo, Guanarito, and Sabia)</li><li>• Filoviridae (Marburg and Ebola)</li><li>• Bunyaviridae (Congo-Crimean hemorrhagic fever virus and hantaviruses)</li><li>• Flaviviridae (yellow fever and Dengue)</li></ul>
<b>Epidemiology:</b>
<ul style="list-style-type: none"><li>• Highly infectious after aerosolization</li><li>• Infectious dose can be as low as 1-10 organisms</li><li>• Risk of person-to-person transmission depends on virus</li></ul>
<b>Clinical:</b>
<ul style="list-style-type: none"><li>• Incubation period ranges from 4-21 days, depending on virus</li><li>• Clinical presentation would vary by viral agent; however, dominant clinical features of all are a consequence of microvascular damage and changes in vascular permeability. Fever, myalgia, and prostration may evolve to shock, generalized mucous membrane hemorrhage, and neurologic, hematopoietic, or pulmonary involvement.</li></ul>
<b>Laboratory Diagnosis:</b>
<ul style="list-style-type: none"><li>• Viral isolation should be handled in a Biosafety Level 3 or 4 facility and may take 3-10 days</li><li>• ELISA or reverse transcriptase PCR available for most VHF viruses</li></ul>
<b>Patient Isolation:</b>
<ul style="list-style-type: none"><li>• Isolation room with contact precautions</li></ul>
<b>Treatment:</b>
<ul style="list-style-type: none"><li>• Ribavirin (30 mg/kg IV x 1, then 15 mg/kg IV q 6 h x 4 days, 7.5 mg/kg IV q 8 x 6 days) may be helpful for Congo-Crimean hemorrhagic fever or arenaviruses</li></ul>
<b>Prophylaxis:</b>
<ul style="list-style-type: none"><li>• Licensed vaccine available only for yellow fever</li></ul>