

## Medical

## **VIRAL HEMORRHAGIC FEVERS (VHFs)**

**Agent information:** Viral Hemorrhagic Fevers (VHFs) refer to a group of illnesses

caused by several distinct families of ribonucleic acid (RNA) viruses. The term "Viral Hemorrhagic Fever" describes a severe multi-system syndrome. There are several VHFs with similar effects and varying severity. They include Ebola, Lassa,

Marburg, Crimean-Congo, Rift Valley, and others.

**Transmission:** Ebola, Marburg, Lassa, and Crimean-Congo hemorrhagic fever

viruses are transmitted to humans following exposure to

infected animal hosts or vectors. Person-to-person

transmission occurs once an initial person becomes infected. This type of secondary transmission can occur through direct contact with infected people or their body fluids, or through contact with contaminated objects. Aerosol spread is also

possible. Overall incubation period is two to 35 days.

**Signs and** Specific symptoms vary by the type of VHF, but initial signs and symptoms: symptoms include marked fever, fatigue, vertigo, and myalgias.

Patients with severe cases show signs of bleeding

subcutaneously, internally, and from body orifices. Severely ill cases show signs of hemodynamic instability, central nervous system malfunction, coma, delirium, and seizures. Some VHFs

are associated with renal failure.

**Decontamination:** No.

**Isolation:** Negative pressure.

**Protective**Contact and droplet precautions with use of an N-95 mask as a minimum. Other protective measures include double-gloving,

impermeable gowns, leg and shoe coverings, face shields or goggles, dedicated medical equipment, proper disinfection measures, and restricted access of non-essential staff.

Maintain patients in negative pressure isolation rooms. Needle

sticks pose the greatest risk to health care workers.

Emergency Medical Services and Preparedness Section 24/7 Emergency Contact Number: 1-888-295-5156 Contact Number: 302-223-2999

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**Evaluation:** Serum (10-12 cc in red / black top tube). All samples are sent

to the Delaware Public Health Laboratory (DPHL), then to the Centers for Disease Control and Prevention (CDC) for analysis.

**Prophylaxis:** No available prophylaxis exists. *Persons considered potentially* 

exposed and all known high-risk and close contacts should be placed under medical surveillance. (An experimental vaccine for Ebola proved effective in a trial study. Vaccines are available

for Yellow and Argentine fevers).

**Treatment:** Ribavirin has been used for some VHFs, but there is no

established treatment or cure. Supportive care is the mainstay

of treatment with intense hemodynamic support.

**Reporting:** Immediately report suspect cases to the Division of Public

Health, Office of Infectious Disease Epidemiology:

1-888-295-5156 (24/7 coverage).

Additional information:

Visit the CDC website: www.cdc.gov/vhf/.