

# **VIRAL HEMORRHAGIC FEVER, EPIDEMIOLOGY AND DIAGNOSIS.**

**Petrit Biberaj**

Faculty of Medical Sciences, University of Tirana Medicine. Email: petritbiberaj@gmail.com

## **Abstract**

Viral hemorrhagic fevers (VHFs) refer to a group of illnesses that are caused by several distinct families of viruses. In general, the term "viral hemorrhagic fever" is used to describe a severe multisystem syndrome (multisystem in that multiple organ systems in the body are affected). Characteristically, the overall vascular system is damaged, and the body's ability to regulate itself is impaired. These symptoms are often accompanied by hemorrhage (bleeding); however, the bleeding is itself rarely life-threatening. How are hemorrhagic fever viruses grouped? They are all RNA viruses, and all are covered, or enveloped, in a fatty (lipid) coating. Their survival is dependent on an animal or insect host, called the natural reservoir. The viruses are geographically restricted to the areas where their host species live. What carries viruses that cause viral hemorrhagic fevers? Viruses associated with most VHFs are zoonotic. This means that these viruses naturally reside in an animal reservoir host or arthropod vector. They are totally dependent on their hosts for replication and overall survival. For the most part, rodents and arthropods are the main reservoirs for viruses causing VHFs. Where are cases of viral hemorrhagic fever found? Taken together, the viruses that cause VHFs are distributed over much of the globe. However, because each virus is associated with one or more particular host species, the virus and the disease it causes are usually seen only where the host species live(s). Some hosts, such as the rodent species carrying several of the New World arenaviruses, live in geographically restricted areas. Therefore, the risk of getting How are hemorrhagic fever viruses transmitted? Viruses causing hemorrhagic fever are initially transmitted to humans when the activities of infected reservoir hosts or vectors and humans overlap. The viruses carried in rodent reservoirs are transmitted when humans have contact with urine, fecal matter, saliva, or other body excretions from infected rodents What are the symptoms of viral hemorrhagic fever illnesses? How are patients with viral hemorrhagic fever treated? Patients receive supportive therapy, but generally speaking, there is no other treatment or established cure for VHFs. Ribavirin, an anti-viral drug, has been effective in treating some individuals with Lassa fever or HFRS. Treatment with convalescent-phase plasma has been used with success in some patients with Argentine hemorrhagic fever. How can cases of viral hemorrhagic fever be prevented and controlled? With the exception of yellow fever and Argentine hemorrhagic fever, for which vaccines have been developed, no vaccines exist that can protect against these diseases. Therefore, prevention efforts must concentrate on avoiding contact with host species. If prevention methods fail and a case of VHF does occur, efforts should focus on preventing further transmission from person to person, if the virus can be transmitted in this way.