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Ebola Virus: The Story



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The scary thing about Ebola is its death rate: average of 50%. Similar to most other viruses, we don't have a During our evolution of thousands of years, Mankind has magic-bullet treatment, and the mainstay of therapy is supportive, such as hydration. Logically, people with dealt with many foes; some of them have been "monsters" ample hydration, and a baseline good health have better spanning many meters high, while others were not even evident with the naked eye. While Mankind learned and chances, which is why in poorer areas of Africa, death rates reached up to 90%. There are no current licensed antiupgraded his knowledge to help him survive, microbes have adapted also, thanks to their smaller genetic virals or vaccines on the market, although two companies are hoping for an effective vaccine by mid-2015. As material. We have encountered living organisms in quoted by Peter Singer: "because its victims were poor, extreme environments, such as in icy lakes or surrounding pharmaceutical companies had no incentive to develop a underwater volcanos. The fact that we can do PCR today is because we make use of the polymerase enzyme of one vaccine. Indeed, pharmaceutical companies could expect to earn more from a cure for male baldness". The good of these "extremophile" bacteria. news is that it cannot be transmitted by air. Therefore, Although our ventures and technology have given us a widea person who has Ebola and is showing symptoms can't contaminate the air surrounding him. Incubation periods

Although our ventures and technology have given us a wideangle view of our nature, we still have many unknowns, hidden in various crevasses. In 1976, one such unknown made headlines by killing more than two-hundred people. It was a virus, named after the Ebola River, in Democratic Republic of Congo (previously Zaire) where it struck. At the time, the epidemic was contained by isolating positive cases, and not letting villagers involved from leaving their premises. Since then, Ebola showed itself again in 1994 with a similar death toll in villages and no urban involvement.

Viruses, unlike bacteria, need a host cell to multiply. Ebola is no different. It is part of the Filiviridae family of viruses (RNA single stranded), which also includes other deadly members like the Marburg Virus (Germany, 1967). Ebola is thought to exist in fruit bats and non-human primates like gorillas and monkeys who live in the jungles of Africa. Eating raw meat from these animals, or coming into contact with their saliva, urine or feces will lead to an infection. Most past cases involved people who went into caves and came in contact with the feces of cave bats. One Ebola virus entity is enough to start infection! After infection, human-to-human transmission continues via all body fluids, including vomit and sweat, even 7 weeks after death.





for Filiviridae are between 2-21 days. The symptoms are In Lebanon, proper governmental measures were taken usually similar to those encountered with Malaria and typhoid patients- sore throat, fever, malaise, fatiguetherefore a thorough history of recent travel, in addition to rapid accurate tests to rule out malaria (Antigen) of Health (MOH) prepared an isolation unit in the airport, and Salmonella (Widal) are helpful. ELISA based IgG and IgM, or PCR for Ebola are the mainstay of Ebola diagnosis (Available at Rafik Hariri Gov. Hospital). Other routine lab tests show a decrease in WBC and platelets, and an increase in liver enzymes.

The main reason Ebola has struck so hard this year is due to the poor healthcare conditions of the countries it struck: Guinea, Sierra Leone, and Liberia. This in addition to the poor understanding of transmission of the virus (burial of the deceased, handling of patients in local hospitals) has led to its quick spread in urban cities. Insect bites do not transmit the virus. Ebola is said to be seasonal, following measure by healthcare workers, CME (continuous medical heavy rains in the affected areas. Ebola is deactivated by mild alcoholic products, like hand-gels; it is also "killed" by boiling for 5 minutes or drying completely or by diluted Chlorox (1/100) solutions.

even from the start. Airport temperature scanners were in place for all flights from the area, considering the thousands of Lebanese citizens living there. Additionally, the Ministry trained Red Cross personnel, and even prepared the Rafik Hariri Governmental Hospital to receive possible future patients if necessary. Other major hospitals also followed in such preparations. To date, no Ebola cases have been registered in Lebanon.

In conclusion, promises are made by developed countries that by April 2015 there should be anti-viral drugs &/or vaccine(s) available for general use. The current epidemic has made Ebola a medical global priority that is wasn't before. So far it has killed 5700+ people, infecting more than 16,000 cases. As for us, with proper hygienic education) of primary contact personnel, and following safety guidelines set by the MOH, we may never see Ebola in Lebanon in the foreseeable future.



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