

Unit 10 - Causes and spread of infection in the emergency and urgent care setting

Using the Trust's Infection Prevention & Control Manual, answer the following questions:

[1.1] What are the differences between bacteria, viruses, fungi and parasites?

Bacteria are single-celled microorganisms tens to hundreds of times bigger than viruses. Because there is no nucleus or membrane-bound organelles, the cell structure is simpler than that of other species. Instead, their control centre, which contains the genetic information, is housed within a fatty membrane within a single ring of DNA. Some bacteria carry a plasmid, which is an additional circular of genetic material that can take the shape of a rod or sphere. Some bacteria survive and proliferate in the environment, whereas others coexist with humans or animals. Some can double in 15 minutes, while others might take weeks. (Microbiology Society, 2020a)

Viruses, in contrast to Bacteria, are relatively tiny and basically spherical in form. They are defined as a acellular entity with a nucleic acid core surrounding by a protein covering. (Bettsy and Keogh 2012). A virus is therefore composed of a core of genetic material, either DNA or RNA, encased in a protective covering known as a capsid. This capsid/protein coat may include an extra spikey coat termed the envelope, which allows viruses to latch onto and enter host cells. (Microbiology Society, 2020e)

Viruses are the tiniest organisms on the planet. They are reported to be so little that 500 million rhinoviruses (the causative agents of the common cold) might fit on the head of a pin. (Microbiology Society, 2020e). Viruses are distinct from all other infectious microorganisms in that they are the only category of germs that cannot multiply outside of a host cell and may live for lengthy periods of time outside the host. Viruses do not ingest food, but instead employ host cell resources and energy to hijack the cellular machinery.

Fungi, unlike bacteria and viruses, can be single celled or incredibly complex multicellular creatures. They also differ in terms of form, size, and mode of infection. They are classified as Eukaryotes because, like parasites, their cells include a nucleus and sophisticated internal components such as cytoplasm and organelles. (Betsy and Keogh, 2012). They are frequently minuscule and may be found in almost any habitat, but they prefer to dwell in soil or on plant material as spores, moulds, or yeasts, where they take nutrients from the surrounding environment. (Microbiology Society, 2020b).

Parasites are eukaryotic creatures that live at the cost of another organism or host. Parasites vary from bacteria and viruses in that their cells share many characteristics with human cells, including a distinct nucleus. They are typically bigger than bacteria, however some environmentally resistant species are as little as bacteria. Many parasites can only reproduce and replicate within their host, whereas others may multiply freely in the environment. Parasites might be composed of a single cell or several cells, as in flatworms. (Betsy and Keogh, 2012).

[1.2] Identify common illnesses and infections caused by bacteria, viruses, fungi and parasites?

Bacteria - Common bacterial illness and infections include:

- bacterial food poisoning, frequently brought on by Salmonella, Shigella, or E. coli.
- E. coli infections of the urinary tract are frequently produced.

Answers Causes And Spread Infection Unit 8

ML Morrison



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