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DEPARTMENT :- Anatomy

COURSE :- MSA 204

ASSIGNMENT

Explain the histological basic of upper respiratory system (conducting portion of the respiratory system) attacked by corona virus.

ANSWER

Corona viruses typically affect the respiratory system, causing coughing and shortness of breath. The virus is present in many species of animals, such as canines and bats. Mutations of the virus can affect humans.

Viruses work by hijacking cells in the body. They enter host cells and reproduce and then spread to new cells around the body. Corona virus mostly affect the respiratory system that is it infects the lining of the throat, airways and lungs and turns them into coronavirus factories that spew out huge numbers of new viruses that go on to infect yet more cells. At this early stage, one won't be sick and some may never develop symptoms. The incubation period, the time between infection and first symptoms appearing, varies widely but is five days on average.

Body aches, sore throat and headache are all possible but not guaranteed. The fever and generally feeling grotty, is a result of your immune system responding to the infection. It has recognised the virus as a hostile invader and signals to the rest of the body by releasing chemicals called Cytokines. These rally the immune system but also cause body aches, pain and fever. Some people start coughing up sputum (a thick mucus containing dead lung cells). These symptoms are treated with bed rest, plenty of fluids and paracetamol.

If the disease progresses, it is due to the immune system overreacting to the virus. Those chemical signals to the rest of the body cause inflammation and too much inflammation can cause collateral damage throughout the body. Inflammation of the lungs is called pneumonia which can lead to shortness of breath. By this point the body is starting to fail and there is a real chance of death.