***NAME:*** *Atoki Omoyele Motolani*

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***COURSE:*** *ANA202*

***DEPARTMENT:*** *Pharmacology*

***Assignment question.***

*Covid-19 is the ongoing viral pandemic in the world, and the reason you’re at home. Discuss the anatomical implication of this virus on the respiratory system of on human.*

***Answer.***

 *COVID-19, the illness caused by the coronavirus, starts with droplets from an infected person’s cough, sneeze, or breath. They could be in the air or on a surface that you touch before touching your eyes, nose, or mouth. That gives the virus a passage to the mucous membranes in your throat. Within 14 days, your immune system may respond with early symptoms like a sore throat, a fever, or a dry cough.*

 *The virus moves down your respiratory tract. That’s the airway that includes your mouth, nose, throat, and lungs. Your lower airways have more ACE2 receptors than the rest of your respiratory tract. So COVID-19 is more likely to go deeper than viruses like the common cold.*

 *Your lungs might become inflamed, making it tough for you to breathe. This can lead to pneumonia, an infection of the tiny air sacs (called alveoli) inside your lungs where your blood exchanges oxygen and carbon dioxide.*

 *If your doctor does a CT scan of your chest, they’ll probably see shadows or patchy areas called “ground-glass opacity.”*

 *For most people, the symptoms end with a cough and a fever. More than 8 in 10 cases are mild. But for some, the infection gets more severe. About 5 to 8 days after symptoms begin, they have shortness of breath (known as dyspnea). Acute respiratory distress syndrome (ARDS) begins a few days later.*

 *ARDS can cause rapid breathing, a fast heart rate, dizziness, and sweating. It damages the tissues and blood vessels in your alveoli, causing debris to collect inside them. This makes it harder or even impossible for you to breathe.*

 *Many people who get ARDS need help breathing from a machine called a ventilator.*

 *As fluid collects in your lungs, they carry less oxygen to your blood. That means your blood may not supply your organs with enough oxygen to survive. This can cause your kidneys, lungs, and liver to shut down and stop working.*

 *Not everyone who has COVID-19 has these serious complications. And not everyone needs medical care. But if your symptoms include trouble breathing, get help right away.*