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Explanation of Coronavirus and Application of Bi-Polar Ionization to Disinfect Air and Surfaces

Coronaviruses were first identified in the 1960s. Coronaviruses are enveloped RNA viral particles. The symptoms of most ordinary coronaviruses are similar to any other upper-respiratory infection, including runny nose, coughing, sore throat, and fever.

In some of the more serious strains, the coronavirus causes an infection that can spread to the lower respiratory tract and cause pneumonia, especially in older people, people with heart disease, or people with weakened immune systems. This seems to be the case with the COVID-19 Virus which originated in Wuhan, China.

The COVID-19 is among several other serious strains of the coronavirus. More than 475 people have died from the MERS coronavirus which originated in Saudi Arabia in 2012 before spreading to other countries in Middle East, Africa, Asia, and Europe. In May of 2015 there was an outbreak of MERS in Korea, the largest outbreak recorded. In 2003, another severe respiratory Coronavirus known as SARS which killed many people and sickened thousands of others.

In general, most coronaviruses spread in the same manner as other cold-causing viruses: via aerosols directly by infected people coughing, sneezing or touching an infected person's hands or face, or indirect contact touching objects like doorknobs, elevator buttons, and then touching your nose, eyes, or mouth.

As COVID-19 is spread via direct and indirect contact, the continuous application of Bi-Polar Ions emitted to ambient air by the ProMedUSA+AtmosAir System continuously disinfect both the breathing space and surfaces. It is the most effective system for continuously cleaning and decontaminating indoor air.

Because Coronaviruses are enveloped viruses, they are easier to kill compared to naked viruses like Noroviruses. ProMedUSA+AtmosAir has shown significant reduction on bacteria and viruses in both laboratory and in -situ testing.

Public areas, office buildings, malls, casino's, airport terminals, schools, etc. where people from affected regions may carry and spread this virus should implement the AtmosAir bi-polar ionization air cleaning system as a step to combat the spread of illness.