

## Effect of COVID-19 on Pre-existing and New Onset Airway Diseases

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### ABSTRACT

Corona is pre-existing virus but not affecting the humans before 2019. Firstly, it was found in China, mainly in Wuhan in 2019. There are several variants of corona virus including ALPHA, BETA, GAMMA, DELTA,OMICRON. It mainly affected the lungs of human beings and caused difficulties in respiration and breathing that means it can affect the lungs, throat, and nose. Infection with the virus could lead to asthma attack, pneumonia, or other serious lung disease. Asthma is a chronic lung condition that affects the airways and causes inflammation. It causes spasm and narrowing of the airways which lead to wheezing, breathlessness, and coughing. Inhaled corticosteroids are commonly used for the treatment of airways disease. Reduce the corona virus replication and cytokines production in cell lines treated with steroid and beta agonist. Randomized clinical trials show that corticosteroids are effective in the treatment of corona but there are several side effects in which respiratory depression is the major one. Sepsis is the possible complication of covid-19 that harms your lungs and other vital body organ. In pneumonia, the lungs become filled with fluid and inflamed, leading to breathing difficulties. For some people, breathing problem can become severe enough to require treatment at hospital with oxygen or even ventilator. The pneumonia caused by covid-19 tends to affect both the lungs. Air sacs in the lungs fill with fluid, limiting their ability to take in oxygen and cause shortness of breath, cough, and other symptoms. Covid-19 bronchitis, acute respiration syndrome are major complications after covid-19 recovery in patient.

**Conclusion:** We briefly discussed about Asthma that is a major post Covid symptom and studied about breathlessness, coughing, wheezing, pneumonia, and constriction of airways. On other hand these symptoms arise due to the use of corticosteroid.

**Keywords:** breathlessness, pneumonia, constriction of airways, inflammation in lungs.

