

## Study of 109 Patients Who Required Bipap Therapy during Corona Virus Epidemic

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### ABSTRACT:

**Background :** Bipap support is essential for the management of the respiratory failure for the corona virus epidemic. The study focuses on the details of the patients, who required bipap support and analyzed characteristics of those patients. **Materials and methods:** A total of 109 patients were studied for their details including their number of comorbid conditions, age and outcomes. **Results:** Out of total patients who were discharged after utilizing the bipap support were 58.7% and those who expired were 41.3%. Hence the study shows that the patients who were kept on bipap support had shown improvement even after onset of respiratory failure during corona epidemic. The recovery may still depend upon the patients' characteristics including age and number of comorbidities. **Conclusion:** The patients with higher age and higher number of comorbid conditions like diabetes and hypertension etc may have higher mortality as compared to the patients having younger age and nil comorbidities. Higher age group patients may carry more chances of poor prognosis. Increased age with higher number of comorbid conditions may lead to higher mortality. However since the ventilated patients have significant high mortality, the bipap therapy still stands a chance to save the patients from being ventilated and may show better outcomes in young patients with less comorbid conditions. The patients presented with worsened respiratory failure at the time of admission and required bipap support immediately, had higher mortality than those who had presented early and then subsequently required further use of bipap after few days of admission.

**Key words:** Respiratory failure, bipap support, age, comorbidities.