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### **[Abstract Title]**

STATUS AND PERFORMANCE OF INDIAN STATES IN FIGHT AGAINST  
COVID-19

### **[Abstract]**

COVID-19 pandemic has posed a global health threat in different countries including India. Indian states, being diverse in nature, the impact, and its response against the pandemic vary significantly. After the outbreak, 'testing' has emerged as an immediate response for public health safety to trace, treat, and isolate the infected to minimize the spread of the pandemic. Considering the responsive measure adopted by Indian states, it has been found that due to differences in the proportion of testing capacity there is the potential of presenting a biased picture of the COVID-19 pandemic. The aim of the study is to understand the relationship between numbers of COVID-19 positive cases and the number of tests conducted in states. To verify, the relationship between 'the numbers of COVID-19 positive cases' and 'the number of tests' has been analyzed using co-relation analysis and a significant co-relation has been found which signifies statistics of COVID-19 positive cases in different states is largely depending upon the testing capacity. To figure out the state's performance statistical test of Pearson's correlation has been conducted among all the states considering the two pairs of variables viz. 'test per million' and 'COVID-19 positive per million' with 'test positivity rate'.



**[Keywords]**

COVID-19, COVID-19 positive per million, Test per million, Test positivity rate, nature of spread, state's response.