

# Predictive Modeling and Capacity Planning Tool (COVID-19 Model)

A tool designed to estimate the timing of surges in clinical demand and the best and worst-case scenarios of COVID-19 induced strain on hospital capacity.



**Challenges:** The COVID-19 pandemic has challenged policymakers and leaders to make time-sensitive and critical decisions about clinical operations and resource allocations.

## What is the Predictive modeling and Capacity planning tool ?

The modeler can forecast how many cases will occur in the future by categorizing them into different buckets, such as susceptible, infected, hospitalized, and death, and making forecasts for each bucket. The modeler works in tandem with the Capacity Planning tool to give information for effective planning and preparation across all hospitals.



### Mitigating strategies to help contain the impact of the pandemic

It offers a modeling and simulation environment to create 'what if' mitigation scenarios and intervention strategies

### Assessing the readiness of the healthcare system to combat the pandemic

Provides dashboards that enable effective planning and preparation across all hospitals by providing a holistic view of demand and supply based on best and worst-case patient counts to gain a better understanding of the requirement

### Improved strategy planning and execution with the wider ecosystem

It aids policymakers in making timely and essential decisions concerning healthcare resources and operations using predictive modeling, demand forecasting, scenario analysis and capacity planning



## Why customers use the Predictive Modeling and Capacity Planning tool ?

- To generate calibrated forward scenarios and statistics to facilitate healthcare resource planning.
- To predict COVID-19 cases and the demand for emergency beds.
- To visualize the demand for PPEs, medications, beds, as well as clinical staff with an inventory management tool.