Optimity

COVID-19 Process Simulation

Simulating Emergency Response Scenarios

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Process Simulation to Predict Future Scenarios

The effects of the COVID-19 Pandemic on the United States healthcare system are everchanging and unique. Due to the rapid spread of the virus globally, the healthcare industry has had to adapt to a largely unknown, yet changing daily, set of outcomes; which is why we believe that process simulation technology can provide answers and mitigate COVID-19 related impacts. Process simulation technology allows businesses to quickly test a variety of process-driven future scenarios to make decisions on how to best modify processes using real data in real time. It can be applied to a vast number of scenarios and can help leadership navigate the complexity and interrelatedness of processes to predict and guide operational decisions.

Process Simulation Applied to the Effects of COVID-19

Typically, our clients are interested in scenarios where there are expected but variable changes in volume to end-to-end processes; for example, open enrollment, claims, or customer service for health insurance. The COVID-19 pandemic has surfaced varying situations with unknown outcomes, which is precisely where simulation tools and methods can provide critical value. COVID-19 has clearly constrained the supply of personal protective equipment(PPE) and essentially stopped all elective procedures. But what may not be so obvious is knowing how and when your organization can start to transition back to a new normal. This is where Optimity and simulation modeling can help.

Simulation models allow organizations to readily use their own data to bring future process solution options to light and then solidify the decisions to operationalize them. Below are some examples:

 Modeling the impact of the pandemic currently and predicting a future outbreak to ensure preparedness across staffing, supplies, and scheduling

- Planning the reorganization and rescheduling of all staff, including nurses, doctors, and administrative employees to optimize capacity needed to fight current COVID-19 – or future waves
- Demonstrating telemedicine's effect on a population's demands for brick and mortor clinics and how it may impact your business staffing capacity, costs, and ability to serve patients.
- Evaluating processes, for example patient intake and diagnostic testing, to determine inefficiencies, bottleneck hotspots, and quantify opportunities for improvement
- Modeling new diagnosis and treatment coding impacts on downstream customer service and claims capacity, efficiencies, and fraud.

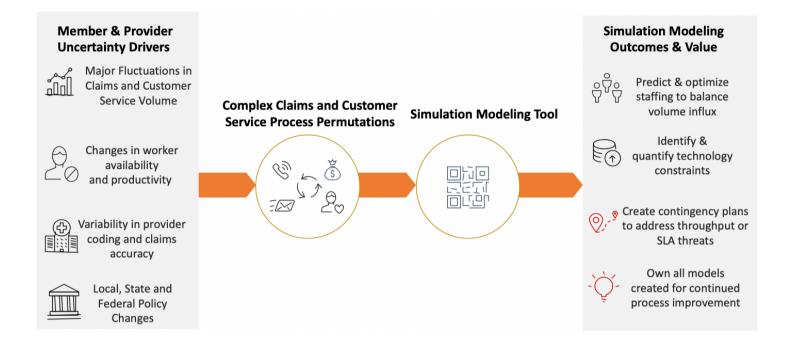
Accelerate Outcome Predictions Using a Baseline Model, Plus Your Data

Optimity has developed a baseline model that shows the endto-end impacts of COVID-19 on a healthcare payer's backoffice operational metrics. Videos and outputs from this model can be found at the associated links. Using your organization's real data, Optimity will work side-by-side with you to map your current processes data and flow and apply the latest COVID-19 inducing stressors that may impact your business. We will guide you through the varying outcomes by building potential simulated process scenarios. We will then test and measure these scenarios with you using each varied COVID-19 input to develop specific actionable recommendations for modifying current business operations. The iterative nature of the simulation scenario modeling will produce rapid and accurate data-driven assessments of how varying COVID-19, or any measurable healthcare condition, will impact your operations. The models built and competencies gained during this crisis can also be applied toward future process throughput, resource, and financial optimization.



Accelerating Outcome Predictions Using a Baseline Model, Plus Your Data

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Scenario	Inputs	Impacts
1. Increased Volume – No change to Staffing, Process, or Technology	Standard COVID19 Claim Volume Claim Volume	Significant backups in COVID19 claims processing
	Worker Adjustments Efficiency Volume	Significant backup in claims adjudication discussion discusside discusside discusside di
2. Increased Volume with Optimized and Increased Staffing	Standard Claim Volume Adjustments Volume Worker Efficiency Adjustments	Minor backups in COVID19 SLAs rarely missed in COVID19 claims processing Claims and adjustments Cost of contracted workers Increased training time and cost
3. Increased Volume with Improvements in Increased Auto Adjudication	Standard Claim Volume Adjustments Volume Worker Efficiency	Minor backups in COVID19 claims processing SLAs rarely missed in COVID19 claims Significant backup in claims adjudication Minor increase in call center call volume

THANK YOU

Thank you for your valuable time. For further information, please contact:

Luke Hermiston, Manager

Direct: (415) 419-6157 Luke.Hermiston@optimityadvisors.com

Sarah Bienstock, Senior Consultant

Direct: (202) 573-4528 Sarah.Bienstock@optimityadvisors.com

Robert Fitzgerald, Senior Consultant

Direct: (202) 807-95333 Robert.Fitzgerald@optimityadvisors.com



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