COVID-19 Predictive Model:

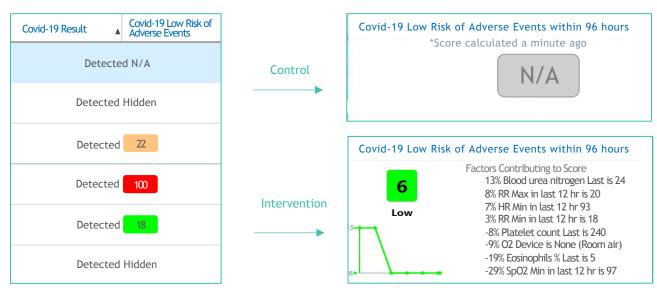
Displaying patient risk scores to clinicians was safe but did not reduce length of stay.

PROBLEM:

We previously developed a model to identify hospitalized adults with COVID-19 who may be ready for discharge given a low risk of adverse events. The goal of this project was to determine whether showing the predictive score to clinicians would decrease their patients' length of stay in the hospital. Earlier discharge of low-risk patients may increase our institution's capacity for new patients with COVID-19.

INTERVENTIONS:

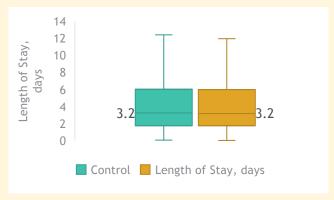
We randomly assigned patients to have their scores displayed or marked as "hidden" in the health record patient list. Further information about the risk score could viewed from the patient list or each individual's COVID-19 summary report.



Risk scores in the EHR patient list

Display of each patient's predictive score

RESULTS:



was safe but did not impact length of stay (median = 3.2 days). While AI predictions themselves are accurate, interventions must be tested in real-world clinical scenarios to ensure they improve outcomes.

Displaying COVID-19 risk scores to clinicians

caring for adults hospitalized with COVID-19

Length of stay in days



NYURapid RCTLab The Rapid Randomized Controlled Trial (RCT) Lab is helping transform NYU Langone into a learning healthcare system by using rapid-cycle randomized controlled trials to test simple, pragmatic ideas. We use our findings to quickly change healthcare practice.