

# Improving Population Health: Rapid Identification of Patients at Highest Risk of COVID-19



Deployed a **COVID-19 risk model** in just a few days, assigning risk scores to **125,000 members**.



Within weeks, teams in each market **connected with more than 50 percent of the patients** at highest risk for COVID-19.



At one partner location, **telehealth now comprises nearly 70 percent of visits**. The partner went from **zero telehealth visits** in the first 11 weeks of 2020, **to more than 2,200 telehealth visits** in weeks 12 and 13.

## PRODUCTS

- Health Catalyst® Data Operating System (DOS™)

## THE CHALLENGE

agilon health immediately understood the sizeable risk COVID-19 presented its members. It desired to create a risk model to identify the patients with the most considerable risk for mortality, providing primary providers the opportunity to connect with their patients in new ways to improve population health.

## THE PROJECT

agilon health leveraged the Health Catalyst® Data Operating System (DOS™) platform and its Patient-Level Data Mart (PLDM) to develop a COVID-19 mortality risk model quickly. Risk factors for COVID-19 severity rates were gathered from U.S., China, and Italy research studies and sources, and are weighted according to mortality rates. Risk factors include age, co-morbidities, institutionalized stats, and social determinants like living in high-poverty and high population density areas. Every patient is assigned a weighted score according to their unique combination of risk factors.

agilon health distributed the risk data to its market partners for outreach. Teams in each market contact high-risk patients, encouraging social distancing, the precautions that could be taken to minimize the risk of becoming infected, and the need to shift to telehealth appointments as a mechanism for staying connected to their primary care provider to maintain health.

## THE RESULT

agilon health leveraged DOS and PLDM to quickly respond to an emerging issue, improving the ability of its partners to intervene to improve individual and population health.



*Using DOS and the Patient-Level Data Mart, we were able to quickly identify patients at high risk of COVID-19, enabling our partners to perform targeted outreach to improve population health.*

- Lauren Polt, MA, Director of Clinical & Quality Analytics, agilon health

*The flexibility of the data platform supported our teams in rapidly responding to emerging COVID-19, integrating data into the data platform to improve patient outreach.*

- Lee Parks, MBA, Vice President of Data Solutions, agilon health