UVA Adult CF Center COVID-19 Response Key Driver Diagram (KDD)

Revision Date: 11/13/2020 (v4)

Global Aim
We aim to provide the same high quality care via telemedicine as we provide in-person visits. This will be defined by access to quarterly multidisciplinary visits which are coproduced and include PFT measurement, sputum cultures, bloodwork and access to social and mental health resources.

SMART Aims
We aim to increase the proportion of patients with quarterly clinic visits; monitoring coordination and multidisciplinary care which are 80% to 90% by December 2021.

We aim to increase the number of eligible patients with home airway monitoring in virtual visits from 40% to 60% by December 2021.

We aim to increase virtual lab monitoring for patients who need to monitor FVC from 20% to 30% by December 31, 2021.

Population
UVA Adult CF patients

Key Drivers
- Patients have access to their usual medications, including CFTR modulators
- Patients have social support from peers and care team during COVID-19 pandemic
- Patients have access to routine and acute CF care during COVID-19 pandemic
- Patients are able to practice effective social distancing to reduce exposure to COVID-19
- Care team members have access to biochemical data to make clinical assessments and treatment plans
- Patients have access to internet and technology for home health monitoring
- Patients and care team members are able to coproduce clinic agendas
- Patients have knowledge and access to local labs for health monitoring
- Patients have access to COVID vaccine as early as possible

Interventions
- SDH screening & resource intervention
- Telehealth services
- Increase PHQ-9 and GAD-7 screening during COVID-19 pandemic
- Streamline process for obtaining outside lab results (competencies, enter into EPIC)
- Develop process for virtual visits for routine visits
- Sputum cultures drive through and mail in process
- Provide home spirometers and health monitoring devices to patients; monitor FEV1 with each telemedicine visit
- ID patients who need assistance procuring telehealth/home monitoring equipment
- Create process for administering, referring, and tracking vaccinations.

Legend
- Potential intervention
- Active intervention
- Adopted/Abandoned intervention

Image 3. UVA Adult CF Center COVID-19 response KDD; The specific aim and intervention pertinent to this QI project report are circled.

UVA=University of Virginia, CF=Cystic Fibrosis, KDD=Key Driver Diagram, CFTR=cystic fibrosis transmembrane regulator, SDH=social determinants of health, FEV1=forced expiratory volume in one second. KDD was adapted from Cincinnati Children’s Hospital Medical center.