



Collective Medical and COVID-19

FUNCTIONALITY TO SUPPORT THE PUBLIC HEALTH RESPONSE

Collective's functionality to support the public health response to COVID-19 and infectious disease outbreaks

Collective Medical has developed a network and real-time event notification and care collaboration platform in use by approximately 1,000 hospitals, tens of thousands of providers—including primary care clinics, behavioral health clinics, FQHCs, skilled nursing facilities and other ambulatory providers—as well as every national health plan in the country. Collective connects patient data from all 50 states.

This platform and expansive network (covering many ports of entry into the United States) is ideally positioned to support regions' and states' ability to identify, treat, trace and analyze infectious diseases, such as COVID-19.

For example, public health departments themselves, in states and regions where Collective's platform is currently implemented, can benefit from this functionality quickly. For those regions that have not yet adopted Collective, implementation is a fast and lightweight process. And their participation in the Collective network will support the larger care continuum's ability to quickly and effectively manage outbreaks.

Public health functionality

Collective's unparalleled network and sophisticated, configurable product capabilities position us to uniquely be able to offer value to public health agencies and related stakeholders in combating infectious disease outbreaks. The size of our facility footprint allows public health officials to identify and locate individuals across the United States whether these individuals are already known to be at-risk, or if they present with symptoms that independently indicate they are high-risk. Known risk factors can be integrated from a vast variety of source systems in order to push risk factors for individuals directly into provider workflow at the point of care. This information can then be used by highly trained medical professionals to identify those in need of isolation and further assessment.

Collective's technology has advanced patient matching capabilities, many which were developed in order to identify patients who may present at a facility using an alias or otherwise aiming to avoid detection, and these capabilities underlie all our other product functionality.

When a patient who should be in isolation (due to a known diagnosis or perhaps as a person under onvestigation) presents at any Collective facility, we can send real-time notifications to any appropriate public health entity to enable them to proactively engage either the individual or the providers and ensure potential exposure is minimized. The Collective platform also enables secure transmission of medical assessment forms, evidence-based best practice protocols that can be continually updated should

understanding of a novel disease evolve, and any other pertinent treating information to both public health officials as well as the rest of a patient's care team.

Further, our robust data assets provide distinctive value to enable the tracing of both familial and cohabitant contacts, as well as to trace patients or providers who may have come into contact with a

person of interest during their time in a healthcare facility. This tracing can be provided via summary reports sent to appropriate public health entities in addition to alerting providers on the presence of an individual who may have been exposed to an infectious disease.

Specific to outbreaks of infectious disease, such as COVID-19, Collective's platform functionality can support the following objectives for public health departments:

Category	Objective	Collective Platform Functionality
Identify	Identify exposure history: Push risk factors to point of care	Combine information sourced from government agencies with Collective functionality to push exposure history into emergency department workflow via a Collective notification. This could include individuals recently returning from high-risk area, individuals who were previously screened negative, or any other risk factors provided by outside sources.
Identify	Identify (potentially) shifting patient risk factors	Provide real-time notifications and/or regularly scheduled reports to public health departments created by patients presenting with specific chief complaints or diagnoses. This functionality includes extensive logic capabilities to more precisely segment the population including by age, gender, previous utilization history or diagnoses, risk factors identified and provided by governmental agencies (i.e. recent international travel), etc. <i>While unlikely to be applicable to COVID-19; these reports could be configured to include data on conditions such as foodborne illnesses to aid in early identification of an outbreak.</i>
Isolate	Locate patients who require isolation to enable public health experts to work with hospital and post-acute facilities to appropriately triage	Notify appropriate public health agency when high-risk individual appears in a Collective facility. Provide identified information on which individual and what facility in order to enable any necessary outreach.

Treat	Activate existing patient care team members to provide additional support in ensuring optimal patient care	Provide patient care team information including primary care providers, post-acute facilities, and health plan case manager contacts with information about their members at risk for COVID-19 or those who receive a positive diagnosis. Where appropriate, known members of the patient care team may provide support in care coordination during the isolation period or after the infection has resolved.
Treat	Secure transmission of Interim 2019-nCoV patient under investigation (PUI) form	Collective's technology allows for a provider to upload a completed PUI form. Those forms can be accessed by the appropriate public health agencies. Additionally, they will be available to any provider on the Collective network should a patient who initially screens negative return to a subsequent care facility.
Treat	Attach most recent best practice protocol to a patient of interest	Public health agencies can provide the most up to date treatment protocols to be attached to a patient and pushed into the provider workflow. This can be done at an individual patient level with personalized instructions, or for a sub-group of patients (i.e. all patients who have returned from China but previously screened negative). Content and patient identification must be provided by the public health agency.
Trace	Provide patient history for any individuals identified as at risk	Public health workers could look up a patient's medical history including encounters, diagnoses, facilities visited, care team members and extensive demographic information within the Collective platform.
Trace	Identify and locate potential patient contacts - family and cohabitants	Upon receipt of patient names and/or addresses that have been deemed under investigation for COVID-19, Collective can produce a regular report providing all individuals who may be potential contacts. This would include leveraging data from our extensive demographic database to generate all individuals who currently or recently lived with the patient under investigation. Additionally, Collective could include information on individuals ever listed as the patient under investigation's next of kin.

For more information about how Collective can support your organization's response to COVID-19 or other infectious disease outbreaks, please contact COVID19@collectivemedical.com.