

COVID19 Workplace Management Platform For Business

Platform Overview

Purpose

Establish a single, end-to-end solution to manage and optimize workplace COVID testing, symptom checking, employee compliance, quarantines, patient monitoring, contact tracing and work group risk stratification that informs data-driven tailored work unit policies and practices that help slow the spread of COVID19.

Background

Transformative Healthcare stood up a statewide mobile COVID testing program on behalf of the Commonwealth of Massachusetts targeted at our most vulnerable populations living in group homes and long term care facilities. From mid April to mid June we tested 35,000 people at 1,900 locations with a median test to result time of 36 hours. In partnership with Quest and several other labs we have secured testing media and lab capacity for 20,000 tests per day and are expanding that relationship to support testing in other states. We added real-time lab integration and scalable, automated test resulting by email, text and phone all hosted in a secure HIPAA compliant cloud application. Building on this experience we created a program to help employers manage the process of restarting their

Approach

In our database of over 35,000 COVID19 tests we see an overall positivity rate of 9% (31% for those with symptoms, 8% for those without). Positivity was not materially different by age or gender for working age individuals. Over 95% of those we tested were asymptomatic and **90% of positives had no symptoms** at time of test. This tells us that only checking for employees exhibiting symptoms, while necessary, is not sufficient. The majority of transmission will come from the asymptomatic which makes a workplace COVID testing program absolutely essential.

How It Works

- STEP 1: Baseline COVID tests for all employees before a return to work
- STEP 2: Prompted, daily, self-reported symptom checks via mobile app. Option to integrate entryway temperature checks
- STEP 3: Coordinate self-quarantines and follow up tests. Option for remote patient monitoring of critical vitals
- STEP 4: Rolling statistical sample testing of the asymptomatic to cost effectively monitor trends in positivity rate down to a granular level
- STEP 5: Rolling antibody testing to track antibody penetration
- STEP 6: Analytics to stratify risk and inform tactics down to the work group

SINGLE SOURCE OF TRUTH

Capture all COVID activity data for all employees in a secure HIPAA compliant application.

INFORM POLICIES & TACTICS WITH DATA

Stratify risk and optimize policies and practices down to individual work groups, all informed by constantly updated data on symptoms, infection and antibody prevalence rates.

INSTALL CONFIDENCE, REDUCE RISK

Build employee confidence and accelerate your restart with a systematic, cost effective, data-driven approach to mitigate risk.

ACCESS TEST MEDIA & TESTING CAPACITY

Avoid the challenges of securing physician authorizations, test media, lab processing capacity and automated resulting in a single COVID19 Test & Result system already proven at scale.

ENSURE COMPLIANCE

Prompt employees and monitor compliance with daily symptom checks, quarantines and tests requests. Option to block access for non-compliance.

IMPLEMENT QUICKLY

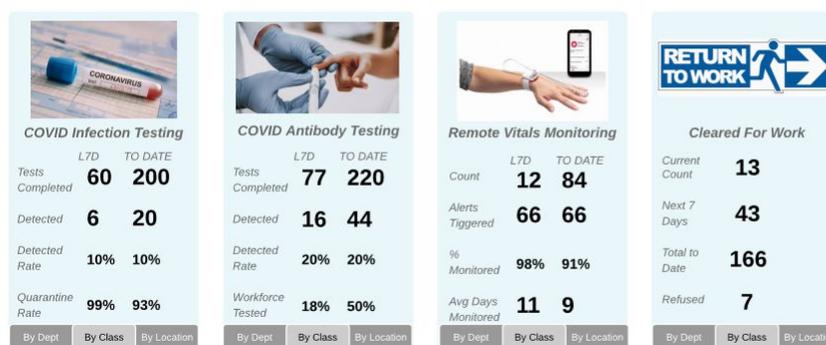
Leverage our off the shelf solution that is proven at scale. Integrate with corporate identity management to automate onboarding.

COVID Monitoring, Testing & Compliance For Business



- Pre-built Mobile Application
- Integrates with Active Directory
- Secure .GOV AWS Cloud
- Tracks Quarantine Compliance
- Analytics & Dashboards

Screen, Test, Quarantine, Monitor: End To End Tracking Of All Employees & Events



Transformative Capabilities

- Testing Experience (>30k tests)
- Mobile Testing Units
- Lab Capacity of >20k Tests/Day
- Lab Integrations & Automated Resulting
- Disposable Vitals Monitoring System
- Track & Manage Flow of Employees, Quarantines & Tests
- Maximize Compliance

The Result

- Secure physician authorizations, testing, lab capacity and resulting right at your place of work
- Manage daily symptom checks, testing, quarantines and workplace contact tracing at scale
- Quickly identify pockets of infection and enable targeted and early mitigation actions
- Optimize and evolve restart policies and tactics based on granular data down to the workgroup level
- Maximize employee confidence and compliance with workplace policies and guidelines
- Support the health and well being of infected employees, reduce hospitalizations and deaths
- Maximize the speed of your restart while minimizing the risks and costs

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Features & Work Flow

MONITOR HEALTH, ENSURE EARLY CLINICAL ACTION

The onset of "silent hypoxia" is causing many sick individuals to be hospitalized much later than is desirable raising the likelihood of intubation, serious complications and death. Remote monitoring of blood oxygen, temperature, heart and respiratory rate is an effective early warning device to ensure early clinical intervention when needed for those sick at home.

BALANCE RISK, COST AND COMPLIANCE

Testing 100% of employees over and over again is not practical or cost effective. Our rolling statistical sampling method allows you to more cost effectively test samples of asymptomatic employees to predict relative infection rates between work groups with a high degree of confidence.

LEARNING BUILT IN

Infection rates can vary greatly from place to place and can change rapidly over time. Use our data-driven approach to learn, optimize and evolve tactics down to the individual work group.

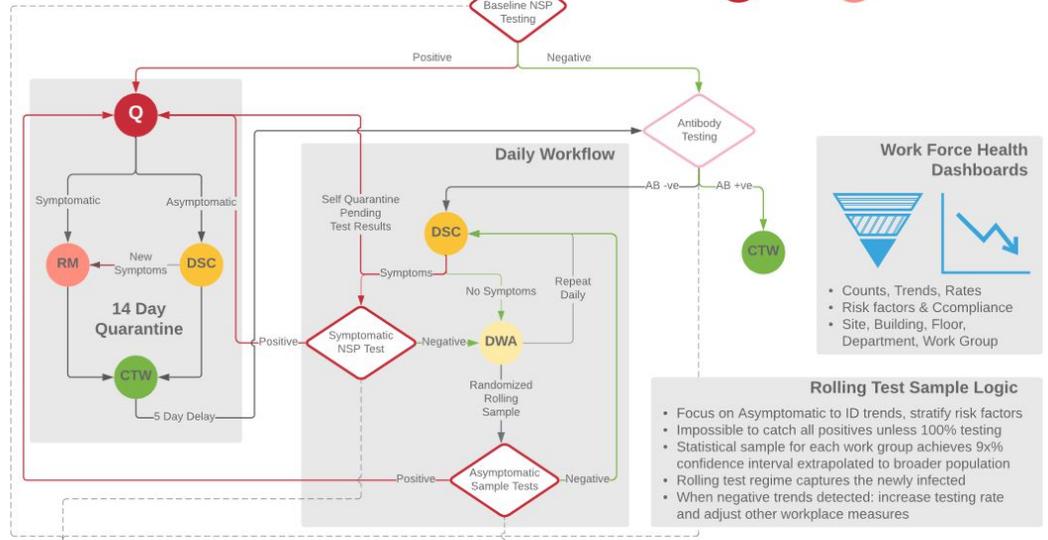
PRE-BUILT DASHBOARDS & ANALYTICS

Know what's going on at a glance with your workforce COVID testing, symptom checking, quarantine and contact tracing initiatives.



Safe Workspaces Process Flow

May 20, 2020



Focus: Asymptomatics & AB Positives

Analyze Trends by Site, Building, Floor, Department, Workspace

A % of +ves, Trend, AB % of Pop, Interactivity, Population

Group A.001, Group B.002

Data Driven Optimization by "Work Group" & Risk Factors

	Low	Medium	High
Standard Protocols	Standard Protocols	Increased @Home	Essential Workers Only
Daily Symptom Checks	Daily Symptom Checks	Expand Testing	100% Testing if not CTW
Level 1 Sanitization	Level 1 Sanitization	Closure of Shared Spaces	Level 3 Sanitization
		Level 2 Sanitization	Enhanced PPE

Company Setup

- Entity – location – work group hierarchy
- Automated provisioning integrated with corporate identity management
- Employee roster uploads
- Resulting process and policy selection

Daily Symptom Check Employee App

- Prompted questions & alerts*
- Facility access barcode scan: R, Y, G result based on status*
- Employee event history view*
- Integrated with entryway temperature readings*

Testing (Infection and Antibody**)

- Testing request portal, work group scheduling & confirmations
- Rolling sample testing logic & test tracking
- Specimen & data collection mobile field application
- Self-serve options – scan and ship specimen collection
- Physician authorization and access to test media and lab capacity
- Automated test resulting workflow (email, text, phone, letter)
- Corporate resulting portal
- Triggers quarantine & contact tracing workflows

Workplace Contact Tracing

- Guided recent contact capturing*
- Triggers informing, quarantine & testing workflows*
- Option to integrate badge to badge workplace contacts history

Quarantine Management

- Daily symptom checks (same as above)*
- Remote vitals monitoring to ensure early clinical intervention
- Quarantined inflow, outflow, return to work process

Risk Factor Stratification

- Data driven stratification >> tailored work group practices

Workforce Health Dashboards

- Employee enrolment & compliance
- Testing penetration, positivity, recovery & antibody penetration rates
- Inventory: Quarantines, vitals monitored, hospitalized, recovered, deaths
- By Company–Division–Site–Building–Floor–Department–Work Group

* Features of employee mobile application

** We have a range of test methods available with varying accuracy and costs

About Us

Transformative Healthcare is the largest EMS Agency in northern New England by patients served. We are committed to delivering cost efficient, high quality patient outcomes by innovating how both patients and data move through the healthcare system. Transformative creates customized partnerships that combine innovative patient testing, remote monitoring and logistics services with intelligent data analytics to create programs that improve patient experience and outcomes while reducing the overall cost of healthcare.



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