COVID-19 Update

Dr Mark Cunningham-Hill
Medical Director NEBGH

Monday June 8th
Pandemic Strategies

Containment
- Identify
- Isolate/quarantine
- Contact Trace

Mitigation
- Travel restrictions
- Stay at home
Contact Tracing

- **Old School**
  - People calling people
  - Still the primary method
  - NYS recruiting up to 17,000 contact tracers

- **Technology**
  - Personal-symptom trackers
  - Digital contact-tracing and exposure-notification tools
  - Community and workplace apps
Personal Symptom Trackers

- App asks a series of questions that determine whether at risk
  - Symptoms
  - Fever
  - Self-reported exposure

Then informs the person “okay” or “Potential COVID-19 case” – stay at home and seek medical attention if needed.

- Community Crowdsourcing Apps
  - How We Feel (website down)
COVID Near You

The data below shows:

- 219 people on this site have reported COVID-19 symptoms
- 1,174 people on this site have reported taking a COVID-19 test

Continue to practice social distancing. This data represents submitted COVID-19 related symptom reports to this site, not confirmed cases in your area.

1,130,294 people have reported on this site in USA

www.nebgh.org
Personal Symptom Trackers

Workplace Apps

- Ceridian (https://www.ceridian.com/blog/category/covid-19-central)
- SafetyTek (https://safetytek.io/covid-19)
- Appian (https://www.appian.com/covid-application-signup/)
- Pega (https://www.pega.com/covid-19-tracker)
- Kokomo (https://www.kokomo247.com/)
Contact Tracing Apps

When A and B meet, their phones exchange a key code. When A becomes infected, he updates his status in the app.

Centralised
- Phone provides own anonymised ID plus codes gathered from other phones to centralised database.
- Computer server uses database to do contact matching and risk analysis, plus sends alerts.

Decentralised
- Phone provides own anonymised ID only to centralised database.
- Phone downloads database, does contact matching and risk analysis, plus sends alerts.
Contact Tracing Apps

- COVID SafePaths (https://covid SAFEPATHS.org/)
- COVID Trace (https://covidtrace.com/)
- CoEpi (https://www.coepi.org/)
- COVIDsafe (https://covidsafe.cs.washington.edu/#about)
- Novid (https://www.novid.org/)
- Coalition App (https://www.coalitionnetwork.org/about-coalition)
- Viri (https://www.viri.io/)
Keys to success

- Mass adoption of technology or “opt-in” of 60% or more of a population
- Public health authority adoption
- Overcoming privacy concerns
Workplace Contact Tracing Apps

- Estimote (https://estimote.com/wearable/)
- Blackline Safety (https://www.blacklinesafety.com/contact-tracing)
Let's take ...

a [data] dive.
Major restrictions

California • Delaware • Maryland • Michigan • Minnesota • New Jersey • New Mexico • New York • New York City

— Total weekly deaths  Recognized covid-19 deaths  Other excess deaths

**Maryland**

**Michigan**

**New Jersey**

**New York City**
Moderate restrictions

Colorado • District of Columbia • Hawaii • Idaho • Illinois • Indiana • Kansas • Kentucky • Louisiana • Massachusetts • Maine • Nebraska • New Hampshire • Ohio • Oregon • Pennsylvania • Rhode Island • Virginia • Vermont • Washington

— Total weekly deaths  ■ Recognized covid-19 deaths  □ Other excess deaths
Minor or no restrictions
Alaska • Alabama • Arkansas • Arizona • Florida • Georgia • Iowa • Missouri • Mississippi • Montana • North Dakota • Nevada • Oklahoma • South Carolina • South Dakota • Tennessee • Texas • Utah • Wisconsin • West Virginia • Wyoming

- Total weekly deaths  ⬤ Recognized covid-19 deaths  ☐ Other excess deaths

Georgia

Alabama

Arizona

South Carolina