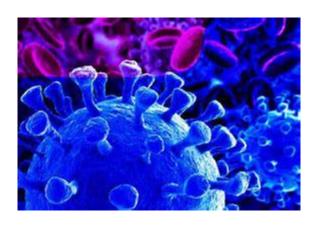




COVID-19 Update for Employers Understanding the Epidemic & Practical Recommendations



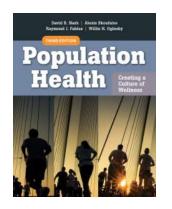
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- Over 25 years of medical management experience with Thomson Reuters, GE, Walgreens, Aetna, Cigna and others
- Served as front line primary care physician for over a decade
- Published articles, book chapters and five books
- Adjunct Faculty Harvard, Jefferson, ACOEM
- **Distinguished Fellow & Faculty Member of American Association of Physician Leadership**
- Co-founder of HealthNEXT
 - **Emerging Leader in building** organizational cultures of health













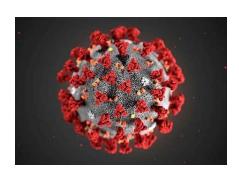




COVID-19 Emergence



- Caused by the virus SARS-CoV-2
- Early on many patients were reported to have link to large seafood and live animal market
- Later patients had no exposure to animal markets indicating person to person transmission
- Travel-related cases reported 1st US case 1/21/2020
- CDC is reporting confirmed COVID-19 cases in the US online at www.cdc.gov/coronavirus/2019-ncov/cases-in-us.html







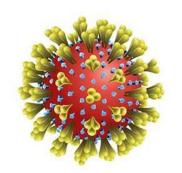
COVID-19 How It Spreads Most Important Points

Person to person contact

- Sneeze or cough;
 - respiratory droplets can travel a few feet
 - THIS IS THE REASON FOR DISTANCING
- Touch infected person / Hand-shake
 - Then touching mouth, eyes, or nose thereafter
 - DO NOT TOUCH YOUR FACE

Touch surface with live virus

- Then touching mouth, eyes, or nose thereafter
- WIPE DOWN COMMON SURFACES FREQUENTLY







COVID-19 Symptoms

Reported illnesses have ranged from mild symptoms to severe illness and death for confirmed coronavirus disease 2019 (COVID-19) cases.

The following symptoms may appear 2-14 days after exposure.*

- Fever
- Cough
- Shortness of breath











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confirmed coronavirus disease 2019 (COVID-19) cases.

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CDC Recommendation

COVID-19 Suspected Patients



Call your doctor if you...

Develop **symptoms, and have been in close contact** with a person known to have COVID-19

OR

Have recently traveled from an area with <u>widespread or ongoing</u> community spread of COVID-19.





CDC Recommendation COVID-19 Prevention

- Wash hands for 20 seconds with soap & water
- Use alcohol based hand sanitizer with at least 60% alcohol if soap & water are not available
- Avoid touching eyes, nose, mouth with unwashed hands
- Avoid contact with people who are sick
- Stay home if you are sick
- Cover your cough or sneeze with a tissue and then rapidly dispose of it
- Clean & disinfect commonly touched objects or surfaces









CDC Recommendation COVID-19 Travel Restrictions

- Destinations with Risk of Community Spread of Coronavirus:
- Level 3 Much of the World
 - China
 - Iran
 - Europe (Schengen Area): Austria, Belgium,
 Czech Republic, Denmark, Estonia, Finland,
 France, Germany, Greece, Hungary, Iceland,
 Italy, Latvia, Liechtenstein, Lithuania,
 Luxembourg, Malta, Netherlands, Norway,
 Poland, Portugal, Slovakia, Slovenia, Spain,
 Sweden, Switzerland, Monaco, San Marino,
 Vatican City
 - United Kingdom and Ireland: England,
 Scotland, Wales, Northern Ireland, Republic of Ireland









Domestic Spread







CDC Issues Domestic Travel Advisory for New York, New Jersey, and Connecticut

The CDC urges residents of New York, New Jersey, and Connecticut to refrain from non-essential domestic travel for 14 days effective immediately. This Domestic Travel Advisory does not apply to employees of critical infrastructure industries, including but not limited to trucking, public health professionals, financial services, and food supply. These employees of critical infrastructure, as defined by the Department of Homeland Security

(https://www.cisa.gov/publication/guidance-essential-critical-infrastructure-workforce [2]) have a special responsibility to maintain normal work schedule. The Governors of New York, New Jersey, and Connecticut will have full discretion to implement this Domestic Travel Advisory.

Health

CDC Recommendation COVID-19 Treatment

- Similar to common flu
 - Get flu vaccine annually
 - Supportive rest, analgesics, fluids
 - Contact PCP if illness worsens short of breathe
- Hospitalization
 - Those with respiratory distress

GAME CHANGERS (Phase III)

- Antivirals
 - Many research protocols meta-analysis
- Vaccines
 - Human Trials Beginning
- Antibody Production
 - Under research protocols
- Serologic Testing
 - Only a few weeks away but accuracy may be an issue







Testing

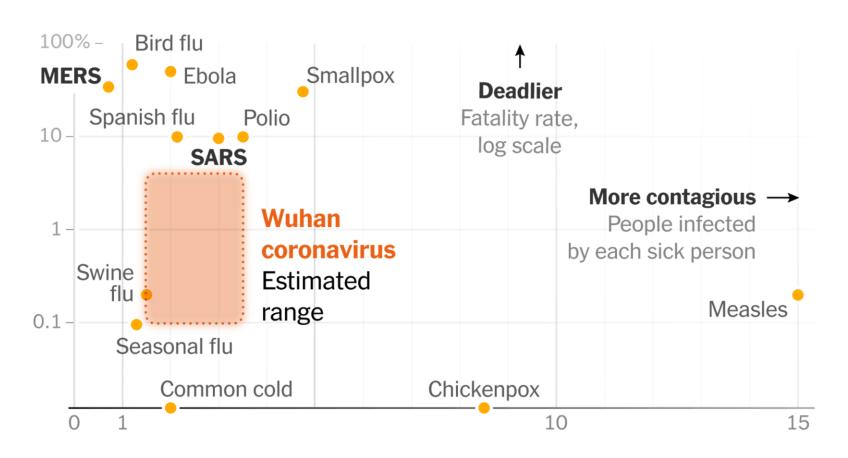
- Nasal Swabs identify presence of virus in back of nose
 - Two separate negatives suggest end
- Antibody Testing
 - Gold standard vial of blood takes time
 - Rapid test a drop of blood quick result
 - Biggest concerns FALSE POSITIVE & Inference of Immunity





COVID 19

Compared to Other Epidemic Viruses







COVID-19 versus Influenza

The Lessons We Learn Apply to Both

COVID-19

- Over 2.4 Million cases globally
- Causing significant illness in 20%
- 167,500 deaths globally
- US confirmed cases over 750,000
- US over 40,000 confirmed cases who have died
- All 50 States reported cases
- Incubation period 1-14 days
- At greatest risk: people 65 years and older, people of any age with certain chronic medical conditions (such as asthma, diabetes, or heart disease),

INFLUENZA

- 3-5 Million with severe illness globally
- 290,000-650,000 respiratory related deaths globally each year
- US confirmed cases 39-55 Million
- US flu-related deaths 24-60,000
- Incubation period 1-4 days
- At greatest risk: people 65 years and older, people of any age with certain chronic medical conditions (such as asthma, diabetes, or heart disease), pregnant women, and children less than 5



HealthMEXT

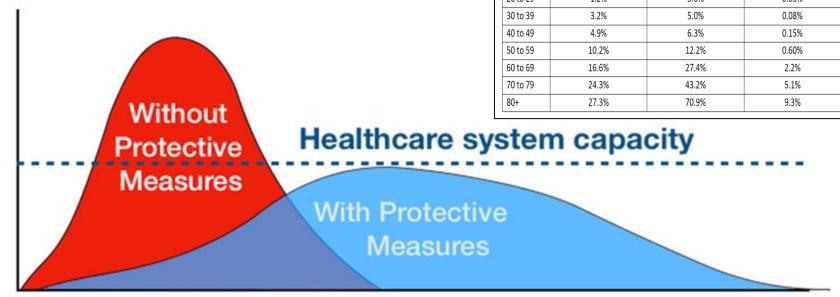
Flattening the Curve

May Save One Million Lives

Table 1: Current estimates of the severity of cases. The IFR estimates from Verity et al. 12 have been adjusted to account for a non-uniform attack rate giving an overall IFR of 0.9% (95% credible interval 0.4%-1.4%). Hospitalisation estimates from Verity et al. 12 were also adjusted in this way and scaled to match expected rates in the oldest age-group (80+ years) in a GB/US context. These estimates will be updated as more data

Age-group	% symptomatic cases	% hospitalised cases	Infection Fatality Ratio
(years)	requiring hospitalisation	requiring critical care	
0 to 9	0.1%	5.0%	0.002%
10 to 19	0.3%	5.0%	0.006%
20 to 29	1.2%	5.0%	0.03%
30 to 39	3.2%	5.0%	0.08%
40 to 49	4.9%	6.3%	0.15%
50 to 59	10.2%	12.2%	0.60%
60 to 69	16.6%	27.4%	2.2%
70 to 79	24.3%	43.2%	5.1%
80+	27.3%	70.9%	9.3%





Time since first case

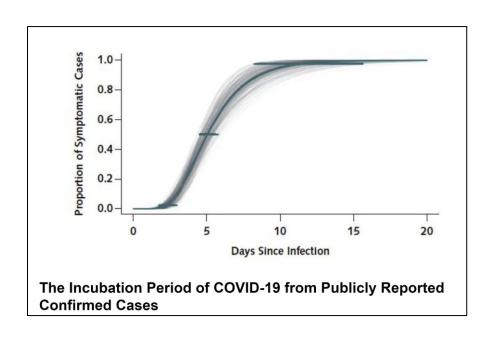
Adapted from CDC / The Economist

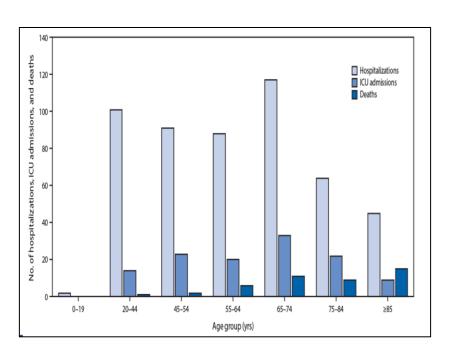




The Science Behind Re-opening

Incubation Period & Impact by Age Band





Incubation Period

Illness Impact by Age Band



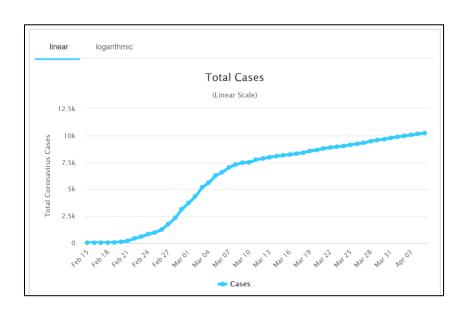


What we learned from South Korea

A Case Study

- Early massive testing
 - Now producing 100,000 / day
 - 40 times more testing than US
 - Drive by screening (600 centers)
 - Active contact tracing of all positive cases
 - No cost for testing
- Directed communications
 - Cellphone alerts at community level
 - Websites / apps reported on whereabouts of + cases
 - Self-quarantine with oversight
- Public response
 - Confidence high, panic low, hoarding rare

- 10,674 cases
- 236 deaths
- Fatality rate roughly 2%
- 8114 recovered







What we learned from the Diamond Princess

A Case Study

- Infection Rate roughly 20%
 - 800 of 3700 tested positive
- Many asymptomatic carriers
 - 46.5% of infected were asymptomatic when tested
- Fatality rate = 1.25%
 - 10 people died from the outbreak = 1% fatality rate
 - At least 4 times greater than influenza





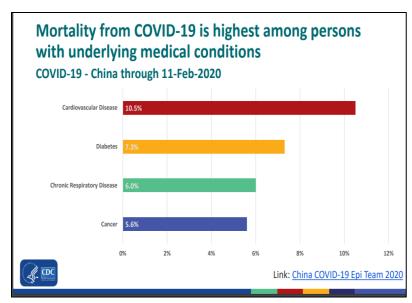
HealthWEXT

An opportunity

Reinforce Health & Wellbeing

Your baseline health determines your outcome with COVID 19

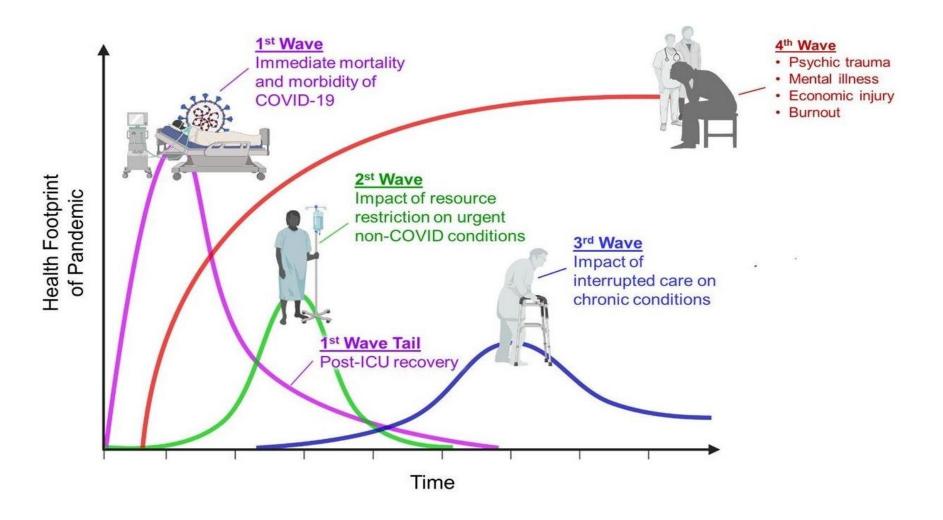
- Do you have risk factors that you are not working on?
 - Smoking 3 reasons for greater risk
 - Easier to become infected
 - Can contribute to the impact on lungs
 - Increases likelihood of COPD / Heart Disease
 - High Cholesterol
 - Heart disease makes it harder to respond to COVID 19
- Do you have a chronic disease that is not under control?
 - Hypertension
 - Diabetes







Foot print of Pandemic







Roadmap to Re-Open Strategies

- Target those infected (Containment)
 - Requires adequate testing / surveillance
- Reduce need for whole population (Mitigation)
- Track Covid 19 at county & state level
 - Local business level decisions will need to be made
- Communicate with public health at county level
- Those over 60 and those with chronic conditions sequestered
- All workplace mitigation efforts should be maintained





Roadmap to Re-Open Requirements at business community level Return to containment

- 14 days (1 incubation period) of sustained reduction in cases
- Local hospitals can accommodate patients
 - No longer stretched for resources and beds
- Testing in place for all with Covid 19 symptoms
- Contact tracing in place for all positive cases
 - Case management capabilities
- Adequate PPE for healthcare personnel





Best Practices

- ☐ Negotiated return to work strategic plan
- Daily Information Therapy
- Create Pods / Staggered shifts to limit cross infection
- Maintain workplace practicing
 - □ Hand sanitizers / Tissues
 - Wipe down common surfaces
 - □ Physical distancing
- ☐ Tracking at the local level
- □ Entrance clearance for all
- ☐ Understand the age band distribution of workforce
- ☐ Attending to acute, chronic, mental and financial stress
- ☐ On-site health coaches, ergonomists, EHS, clinics
- Exploring testing options





Providing Practical Guidance What Employers Should Have Done Already

Appoint a leader and team within your organization for a Coronavirus response and to ensure a coordinated and consistent plan across enterprise
Provide updated information to employees about the symptoms of COVID-19, affected areas and what they can do to prevent illness (Information Therapy)
Eliminate financial barriers for COVID-19 testing & treatment
Consider closing all non-essential worksites
Begin to disinfect common workplace areas – cafeterias, rest rooms, elevators, stairwells – at least twice daily in remaining sites
Prop doors open to prevent need to use door knobs
Liberally place tissues and hand sanitizers throughout workplace
Consider dispensing pocket sized hand sanitizers to employees on a frequent basis where and when available
Place signage in all bathrooms directing correct hand washing
Review business-related travel itineraries for employees, and in particular consider whether any travel is necessary especially for those who are older and / or with chronic conditions
Encourage that all covered lives have an established relationship with a primary care practitioner and get an annual flu vaccine





Providing Practical Guidance

What Employers Should Do Now

Maximize resources for telework were viable	
Eliminate co-pay for Tele-medicine visits	
Cross train personnel on essential functions and review business continuity plans	
Create an infectious disease outbreak plan.	
Create work pods or groupings at the lowest number possible; stagger shifts	
Create guidance for the screening of all workplace contractors and guests	
Review and adjust as appropriate sick leave or accommodation requests from employees – inform employees of any revisions	
Establish approach to employees who are not allowed in the office due to exposure or symptoms, communicate whether he or she will be paid or, rather, whether he or she can use sick, vacation, or any other type of paid leave.	
Work with employees facing travel restrictions and visa renewal issues	
Determine if additional obligations are imposed on your workplace by HIPAA's Privacy Rule.	
Assure that your policies and practices meet pertinent OSHA (and CDC) standards, especially for health care employees when blood-borne pathogens may be present.	
Consider whether there are any issues that need to be addressed with the employees' bargaining representatives and whether there are any provisions in the company's collective bargaining agreements that may require amendments	4





Providing Practical Guidance What Employers Should Do Next

Consider merits of having a Chief Medical Officer / Clinical Adviser
Even small companies should have someone on retainer
Establish process to contact public health if necessary
Establish policy for those who had COVID 19 to return to work
Understand the distribution of the age bands of your workforce
Establish plan for re-opening closed offices – serologic positive when available; perhaps under 40 in the next few weeks after curve flattens
Determine on-going payment status of workforce with sensitivity to employee financial health
Educate leaders, managers and employees about Coronavirus-19 and on the company's planned response. (Consider required module)
Provide continuous information updates to the workforce regarding the pandemic & your company's response (Information Therapy)
Track the incidence rate in the counties where your workplaces & workforces reside
Establish a pathway to stay current on the latest clinical recommendations on testing & treatments for COVID 19



