



New Normal Manufacturing in the Age of COVID-19

Delaware County
May 7, 2020

A New Phase in the Pandemic

- Decisions made now will determine how the easing of restrictions goes
- We have the information we need to have alignment
- You are not alone, you have resources in this county, state, and country

Resources:

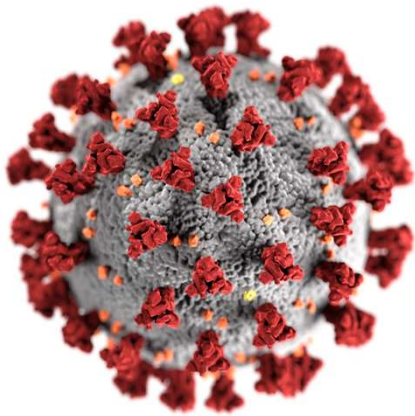
- **Dustin Kent, MPH, RS**, Delaware County Program Manager, Delaware County Health District
- **Bob Lamb**, Director, Delaware County Economic Development
- **Sean Hughes**, Director, City of Delaware Economic Development
- **Dr. David Stein**, Senior Analyst, MEP at Columbus State
- **Thom Rogers**, President, Mainspring Solutions
- **Jeff Spain**, Director, MEP at Columbus State
- **Brent Maurer**, Business Relations Manager, MEP at Columbus State

COVID-19 Health Insight

Dustin Kent, MPH, RS

Delaware County Program manager

Definitions



Coronavirus
Family of Viruses

By CDC/ Alissa Eckert, MS; Dan Higgins, MAM



SARS-CoV-2
Specific Novel Virus

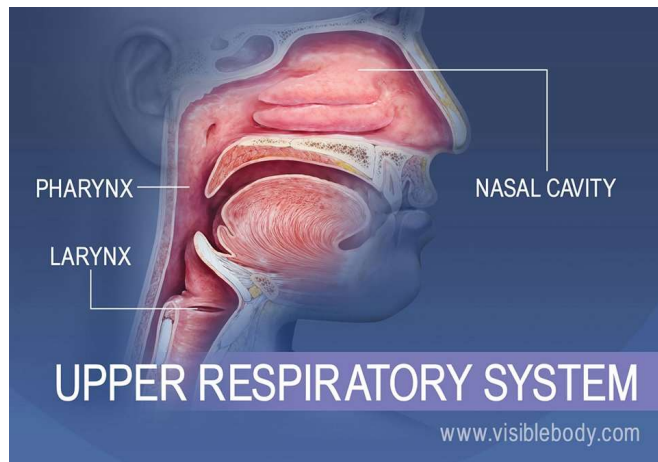
Image captured and color-enhanced at the NIAID Integrated Research Facility (IRF) in Fort Detrick, Maryland. Credit: NIAID



COVID-19
Disease caused by SARS-CoV-2

<https://www.health.harvard.edu/diseases-and-conditions/if-youve-been-exposed-to-the-coronavirus>

The Early Infection



How Does it Spread:

- droplets from the nose or mouth of infected person - by coughing, sneezing, talking
- Inhaled or touched on surfaces
- Hand to mouth, eyes, nose

Incubation Period

- 5-6 days on average, can be 1-14
- Children & Adolescents typically have milder symptoms
- Causes pneumonia and respiratory distress in more severe cases

Contagious Period

- Starts 2-3 days BEFORE symptoms
- According to CDC, ends:
 - No sooner than 10 days after first symptoms
 - Non-fever symptoms have improved
 - No fever for 72h without medication

<https://www.visiblebody.com/learn/respiratory/upper-respiratory-system>

Symptoms

Most Frequent:

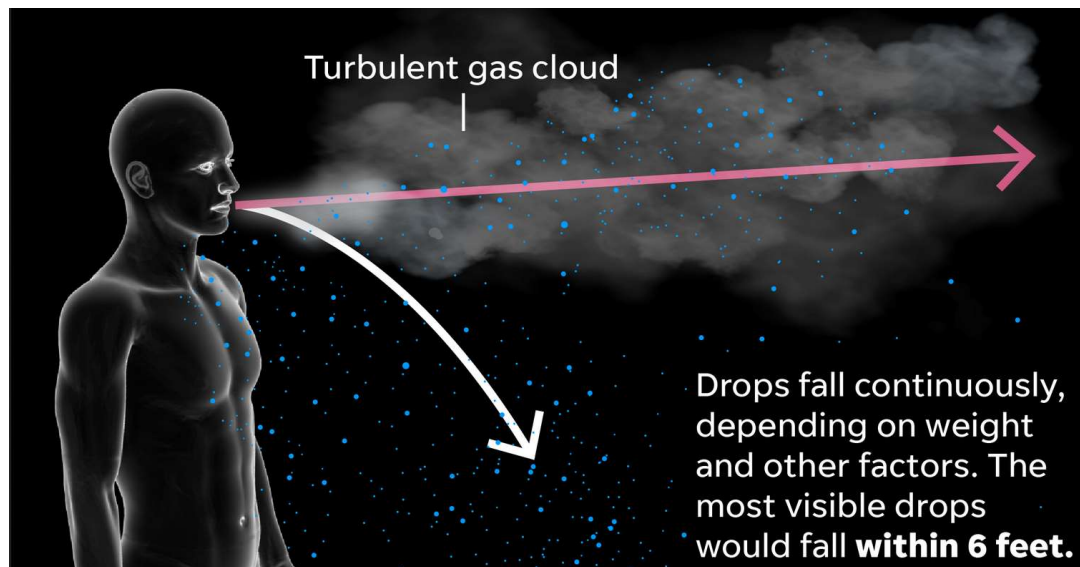
- Fever
- Dry Cough
- Shortness of Breath
- Muscle Pain
- Headache
- Sore Throat
- New loss of Taste or Smell

Less Frequent:

- Trouble breathing
- Persistent pain or pressure in chest
- New confusion or inability to arouse
- Bluish lips or face

Be aware that these symptoms overlap with other illnesses

Transmission Pathways



- Respiratory Droplets
 - Large Droplets ($>5\mu\text{m}$)
 - Small Droplets ($<5\mu\text{m}$)
- Contamination of Surfaces
 - Mouth-Hand-Surface
 - Large Droplets

Mitigation Strategies

Dr. David Stein

Senior Analyst – MEP at Columbus State

Thom Rogers

President - Mainspring Solutions

Strategy 1: Keep the virus out of Facility

- *Enable remote work to the greatest extent possible*
- Control Access to Facility
 - Only essential staff and visitors, through one entrance.
 - *Daily symptom assessment by employees*
- *Stay/Go home when symptomatic – No time for “Toughing It Out”*
 - *For confirmed cases, contact health department*
- What happens outside of work is important
- Reinforce culture through communication

Strategy 2: Enhanced Hygiene

- *Proper handwashing: 20s, soap & water, 6-7x a day*
- Hand Sanitizer available in key common areas
- Avoid touching your face
- Cough & Sneeze into tissue or elbow
- *Disinfect high contact surfaces frequently (throughout day)*
 - *Includes desks and workstations*
 - Includes 'transient' surfaces: raw materials/WIP
 - Keep logs
- Time is also a sanitizer

Strategy 3: Social Distancing

- Avoid Highest Risk Situations: <6ft for longer than 5min
- Limit size/length of meetings, huddles, training, etc.
- *Limit personnel in common areas: Breakrooms, entrances, etc.*
 - *Stagger break/lunch times, avoid overlapping shifts*
 - *Schedule supplier deliveries at off-times*
- *Move desks and workstations more than 6' away from each other*
 - Utilize closed common areas for desks
- *Establish maximum capacity (e.g. 50% of fire code)*

Strategy 4: Engineering Controls & PPE

- *Physical Barriers between workstations that can't maintain 6ft distance*
 - Barriers need to be disinfected regularly
 - Temporary barriers are effective in short term
- Ventilation is good, especially with HEPA Filters
- *Require that employees wear facial coverings, with exceptions*
 - *Recommended to require visitors to wear facial coverings*
 - Even homemade masks catch some droplets
 - Face shields can be preferable in some situations

Strategy 5: Managing Morale

- Employees want to feel safe
- Communication is key to compliance with new measures
- Think about new communication forms
 - Electronic communications (video)
 - Timeliness is more important than polish
- Remind employees about mental health benefits
- Flexibility with respect to family care responsibilities

Strategy 6: Stay Up To Date

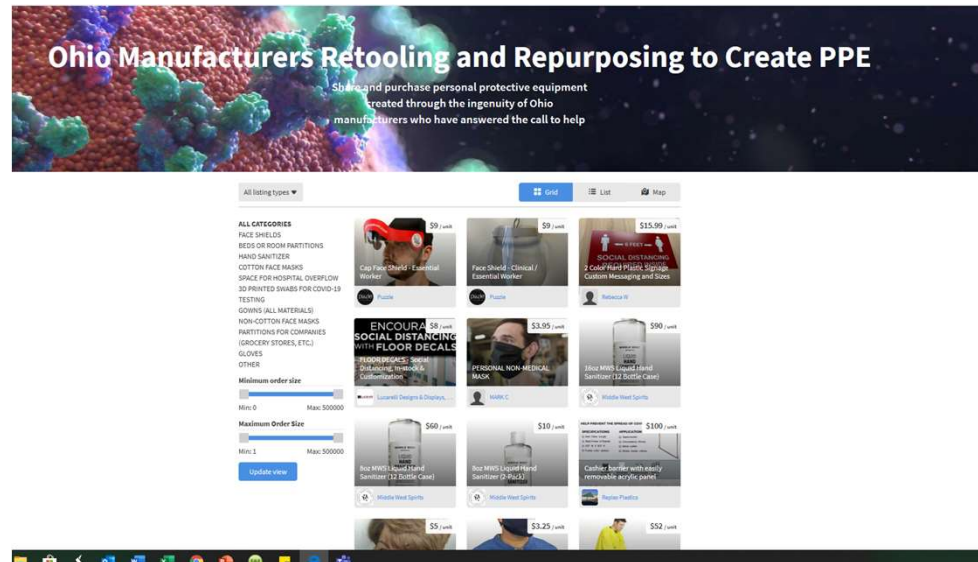
- Guidelines are frequently changing to adjust to new understanding
- Find a trusted source and check in regularly

Strategy 7: Don't Forget the Basics

- Tendency to focus on new information and procedures
- Factories coming back from shutdowns is well studied
 - After time off, more likely to have safety incidents or quality issues
- Re-emphasize safety and quality procedures

PPE Resources

Ohio Manufacturing Alliance Marketplace
<https://repurposingproject.sharetribe.com/>



PPE Resources

Cloth Masks

Costume Specialists

Ed Emerson

eedemerson@cospec.com

614-464-2115 ext. 303 or 614-285-4932

Hand Sanitizer

Lubrication Specialties, Inc.

Mindy Groves

mindy@lubricationspecialties.com

800-341-6516

Watershed Distillery

Kit Meager

kit@watersheddistillery.com

614-357-1936

AMG Industries (Hand Sanitizer Brackets)

740-397-4044

Face shields /Gloves

See site for multiple options

Signage

See site for multiple options

Sneeze Guards/Partitions

Replex

www.replex.com

740-397-5535

Shamrock Plastics

<http://shamrockplastics.com/>

740-392-5555

<https://repurposingproject.sharetribe.com/>

You Are Not Alone

Bob Lamb

Director, Delaware County, Economic Development

Sean Hughes

Director, City of Delaware Economic Development

Jeff Spain

Director, MEP at Columbus State

Delaware County Resources

- **Delaware County Economic Development**
 - <https://economicdevelopment.co.delaware.oh.us/>
 - 740-833-2113
- **Delaware County Ohio Means Jobs**
 - <http://ohiomeansjobs.com/delaware>
 - 740-833-2338
- **Delaware General Health District**
 - <https://delawarehealth.org/>
 - 740-368-1700
- **City of Delaware Economic Development**
 - <https://www.delawaremeansbusiness.com/>
 - 740-203-1016
- **Delaware Area Chamber of Commerce**
 - www.delawareareachamber.com
 - 740-369-6221
- **Sunbury Big Walnut Area Chamber of Commerce**
 - <https://www.sunburybigwalnutchamber.com/>
 - 740-965-2860



State Resources

- **Office of Small Business Relief**
 - <https://businesshelp.ohio.gov/>
 - 1-833-BIZ-OHIO (1-833-249-6446)
- **One Columbus**
 - <https://columbusregion.com/onecolumbus/>
 - 614-225-6063
- **Ohio Chamber of Commerce**
 - <https://ohiochamber.com/>
 - 614-228-4201
- **The Ohio Manufacturer's Association**
 - www.ohiomfg.com/
 - 614-224-5111
- **SBA**
 - www.sba.gov/offices/district/oh/columbus
 - 614-427-0407



MEP at Columbus State

- MEP at Columbus State is a member of Ohio MEP and National MEP Network
- 12 central Ohio counties
- Focus on driving profitability, productivity and innovation in manufacturing with a primary focus on small and medium sized manufacturers
- Once Partner. Multiple Service Solutions.



COVID-19 Related Services

- Self-assessment checklist
- Free Assessment by our team
- Methodologically-rigorous production cell redesigns
- Supplier sourcing
- Implementation of physical barrier projects
- Cybersecurity assessments
- Training Opportunities for workforce
- Workforce strategies

Virtual Manufacturing Training



PLASTICS PROCESSING

MEP AT COLUMBUS STATE

PROFESSIONAL DEVELOPMENT

LEARNING PLANS FOR MANUFACTURING JOB ROLES

Online Training from Columbus State Community College and Tooling U-SME offers a quick-start, progressive road map that allows manufacturers to build career paths for employees. This online training is intended to enhance your existing on the job training, to create a job progression plan and requires minimal preparation. It is efficient, effective training that has been

Workforce

Brent Maurer

Business Relations Manager – MEP at Columbus State

Employees are your most valuable asset

- How you interact with the employees will have a lasting impact on your company
 - Have you talked to each employee
 - Conversation about their concerns
 - Accommodations
- Policies in Place for Protection
 - Distribute to employees
 - Outline steps
 - Have them sign off

Who is coming back – where are the gaps

- Develop a COVID-19 staffing plan
- Prioritize Positions
 - Essential Operations
 - Nice to have
- Cross Train or Shift Employees to fill gaps

Be ready to hire!

- Consider Sources of Talent
 - Referrals
 - Job Boards
 - Ohio Means Jobs – Free Monster Postings
 - Virtual Job Fair
 - Newspaper/Media Coverage – Press Release We Are Hiring!
- Hiring Process

Remain Flexible – You Are Not Alone

- Challenges will arise
- Partners in this Pandemic
 - Delaware County Economic Development
 - City of Delaware Economic Development
 - Delaware Area County Chamber of Commerce
 - Sunbury Big Walnut Area Chamber of Commerce
 - MEP at Columbus State
 - Delaware County Ohio Means Jobs

Questions

Looking Forward: a steady state

- Can't stop focusing on COVID-19 until vaccine or treatment
- An uneasy steady-state
- Budgets are busted – Need to Improve Competitiveness
- Acceleration of longer-term trends
 - Remote Work
 - Industry 4.0, adoption of digital tools
- New trends: Resiliency & hygienic technology

Silver lining: the value of local manufacturing is more apparent than ever

Key Contacts

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Delaware General Health District

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740-368-1700

Thank You