

## **COVID-19 Question and Answer Session for Long-Term Care and Congregate Residential Settings**

October 9th, 2020

## Housekeeping

All attendees in listen-only mode

Submit questions via Q&A pod to All Panelists

Slides and recording will be made available later



## **Agenda**

- Upcoming Webinars
- Recent SIRENS
- Telligen QI Connect Update
- Respiratory Protection: Part 1
- FAQ from Last Week
- Open Q & A

Slides and recording will be made available after the session.



## **IDPH** webinars

## Friday Brief Updates and Open Q&A

Thursday, October 15 <sup>th</sup>	https://illinois.webex.com/illinois/onstage/g.php?MTID=e5c96738693dd12968 0c10797f09d5da5
Friday, October 23 <sup>rd</sup>	https://illinois.webex.com/illinois/onstage/g.php?MTID=eee36e6230ecadbf04 282a4fa264aed8e
Friday, October 30 <sup>th</sup>	https://illinois.webex.com/illinois/onstage/g.php?MTID=ec2188756e1dea8505 2f6e78c5a702f0b

Slides and recordings will be made available after the sessions.



#### **Recent SIRENS**

 Interim Guidance on Antigen Testing for COVID-19 in Long-Term Care – 10/8/20

• 2020 General Election Guidance Voting Information for Nursing Homes and Other Long-Term Care Facilities – 10/5/20



#### **Breaking News from CMS**

- » Collaborate with Telligen
- » No cost assistance
- » Peer to peer support
- » Data to drive decisions
- » Enhanced Performance
  - » Organization
  - » Well-being of residents and staff

DEPARTMENT OF HEALTH & HUMAN SERVICES Centers for Medicare & Medicaid Services 7500 Security Boulevard, Mail Stop S3-02-01 Baltimore, Maryland 21244-1850



Center for Clinical Standards and Ouality

October 7, 2020

Dear Colleagues and Partners in Nursing Home Quality Improvement,

The Centers for Medicare & Medicaid Services (CMS) encourages you to collaborate with the Quality Improvement Organization (QIO) experts in our mission to increase the performance of the health care system by increasing nursing home quality of care for residents. CMS realizes that responding to the current national health emergency is a top priority in everyone's minds. We know that you have had many people come into your facility for varying purposes, from a variety of different federal and state agencies. We know that staffing shortages are a priority over everything else because you are so focused on caring for residents while responding to the pandemic. You may ask yourself, why should we work with the QIOs?

With your voluntary participation in working with the QIOs (who are on contract with CMS, and directed by CMS to provide assistance) you will:

- Receive no-cost assistance with improving your facility's performance on an array of
  quality care components, including performance on the Total Quality Measure Score for
  nursing homes, preventing adverse drug events, preventing unnecessary hospital
  utilization, and improving infection control,
- · Measure your improvement using data already collected through the Minimum Data Set,
- · Access wide-ranging best practices gleaned from high-performing nursing homes,
- Participate in peer-to-peer forums with other nursing homes for discussing and implementing a systems-based approach to implement quality improvement practices,
- Develop relationships and collaborate with other forward-thinking nursing homes in your State

The QIOs are not part of the CMS survey process and do not issue a list of corrective actions. The QIOs work closely with you to help identify challenges, and create joint action plans for improvement in quality and safety. When your state QIO contacts you to participate, I urge you to join and actively participate for the growth and enhanced performance of your facility and wellbeing of all nursing home residents and your staff, as well.

Sincerely,

Anita Monteiro

Anita Monteiro, MA, MBA, MSHCA, BSN
Acting Director, iQuality Improvement & Innovation Group (iQIIG)
Centers for Medicare & Medicaid Services (CMS)
Anita.monteiro@cms.hhs.gov

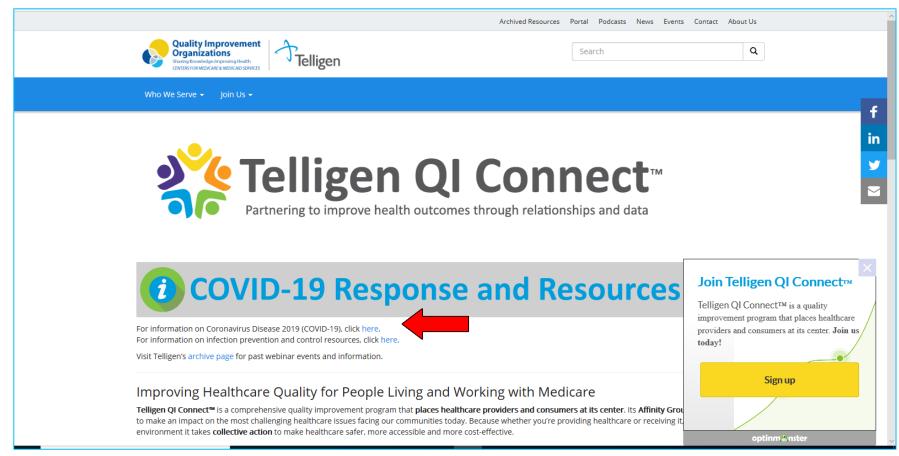
https://www.telligenqinqio.com/resource/our-work/nursing-home-care/nursing-home-care/nursing-home-care/nursing-home-care/nursing-homes-partner-with-their-gio/



### **Telligen QI Connect™**

#### Telligen Portal and IP Resources





https://www.telligenqinqio.com

### Register with Telligen Today - Don't Miss Out on Tools Like These!



Guidebook for Infection Prevention and Control Preparedness

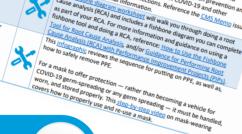








Note: Per CMS regulation issued on March 31, 2020, the requirer relationship for telehealth visits has been removed. For clinician CMS letter to Clinicians, available here.





**READ MORE** 

Communication between a r portal (the patient must ger occur over a 7-day period)



#### Sign Up for Telligen QI Connect™ By 10/30/2020

#### Join Telligen QI Connect™!

Join Telligen QI Connect™ - a healthcare quality initiative in Colorado, Illi you improve care and navigate the constantly evolving healthcare lands commit to join the Telligen QI Connect™ initiative.

Last nam	e *
Title *	
Your title w	thin your organization
Assistan	t Director of Nursing (ADON)
Email *	
Organiza	tion *
	'NA" if you are not affiliated with an organization.
Please use	
Please use	

#### https://www.telligenqinqio.com/join-telligen-qi-connect/

	Affinity Groups
Street Address	Do you need help choosing an affinity group? Please check the box below.
	☐ Help me choose: a Telligen advisor will contact you
Address Line 2	
	Affinity Groups
	Please choose to participate in one or more affinity groups of interest.
City	
	Select All
ZIP Code	☐ Care Transitions
Organization type *	Chronic Disease Prevention & Self-Care
Ambulatory Surgery Center ▼	Nursing Home Care
CMS Certification Number (CCN)	Opioids & Behavioral Health
optional	Have you worked with Telligen before? *
	◎ Yes
0 of 10 max characters	
Tax Identification Number (TIN)	◎ No
optional	Permission to share *
	Newsletter and social media recognition
	I permit Telligen to disclose our participation in this initiative.
National Provider Identifier (NPI)	Farmer . Singlet to discuss our participation in dissinitudate.
optional	Submit



## Respiratory Protection: Part 1

Deb Burdsall, PhD, RN-BC, CIC, FAPIC

Aaron Martin

Heather J Stone

Karen Trimberger

October 9, 2020

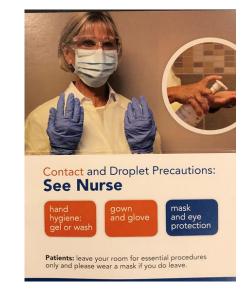


ne droplets visible during sr

 Describe the difference between current long-term care respiratory protection and the ideal respiratory protection program



## Infection Prevention Practices













**Hand Hygiene** 

**Use of PPE** 

**Cleaning/Disinfection** 

**Detection, Isolation and Cohorting** 



## Aerosol-generating procedures—

Procedures that may increase potential exposure to aerosol transmissible disease pathogens due to the reasonably anticipated aerosolization of pathogens. Aerosol-generating procedures may also be known as high hazard or coughinducing procedures. See page 12 for a detailed explanation.



## **Aerosol Generating Procedures**

- Commonly performed medical procedures that are often considered AGPs, or that create uncontrolled respiratory secretions, include:
- open suctioning of airways
- sputum induction
- cardiopulmonary resuscitation
- endotracheal intubation and extubation
- non-invasive ventilation (e.g., BiPAP, CPAP)
- bronchoscopy
- manual ventilation
- Based on limited available data, it is uncertain whether aerosols generated from some procedures may be infectious, such as:
- nebulizer administration
- high flow O2 delivery

Source: CDC



Viewpoint from *Journal of American Medical Association* (JAMA), Klompas, Baker & Rhee

- Looked at reproduction number of COVID-19 and secondary attack rate
- Understanding of SARS-CoV-2 transmission is still limited
- Impossible to conclude that aerosol-based transmission never occurs
- Err on the side of caution, particularly in health care settings when caring for patients with suspected or confirmed COVID-19
- Social distancing (at least 6 feet), medical masks, face shields
- Optimizing indoor ventilation, hand hygiene, environmental cleaning/disinfecting



- Published Invited Commentary in Clinical Infectious Diseases, Journal of Infectious Disease Society of America (IDSA) (Morawska & Milton, 2020)
- Growing evidence about microdroplets and the part they play in the transmission of COVID-19
- NOT airborne in the same sense as tuberculosis, measles, chicken pox or disseminated zoster



Airborne droplets visible during sneezing (photo enhanced).



# Airborne transmission of SARS-CoV-2 can occur under special circumstances

- Extended time (>30 minutes)
- Enclosed spaces
- Infectious person exposed susceptible people at the same time
- Susceptible people exposed shortly after infectious person left the space
- Expiratory exertion (e.g., shouting, singing, exercising)
- Inadequate ventilation or air handling that allowed a build-up of suspended small respiratory droplets and particles
- Source: CDC https://www.cdc.gov/coronavirus/2019-ncov/more/scientific-brief-sars-cov-2.html



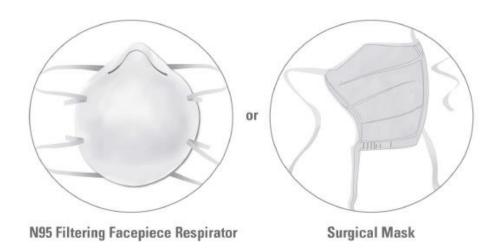


"ne droplets visible during s"

WHAT WERE THE CLUES THAT
RESPIRATORY PROTECTION
WAS EXPECTED IN LONG TERM
CARE OR OTHER PLACES
WHERE AEROSOL GENERATING
PROCEDURES ARE DONE?



While it is your employer's responsibility to provide policies, programs, training, and guidance on respirator use, it is the healthcare workers who implement these procedures. Do you know when to use respiratory protection? If so, do you understand what type of protection to choose and how to use it properly?



## **Look for Clues**

#### Seasonal Influenza

Patient with suspected or confirmed seasonal influenza.

#### Close contact

Surgical mask equivalent or higher

#### Aerosol-generating procedure

N95 Filtering Facepiece Respirator (FFR) equivalent or higher



#### DEPARTMENT OF HEALTH AND HUMAN SERVICES Centers for Disease Control and Prevention National Institute for Occupational Safety and Health

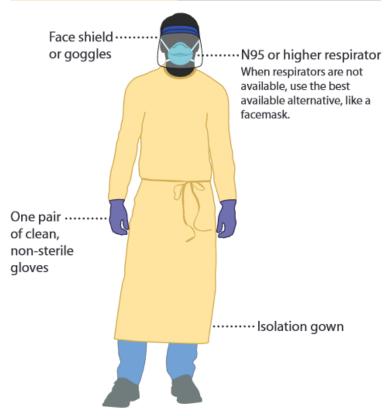




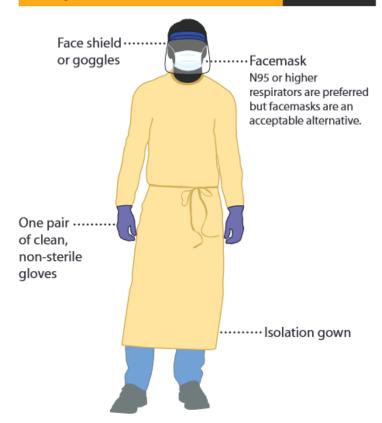
Source: CDC/NIOSH REACH II Infographic 2014

#### **COVID-19 Personal Protective Equipment (PPE)** for Healthcare Personnel

#### Preferred PPE – Use N95 or Higher Respirator

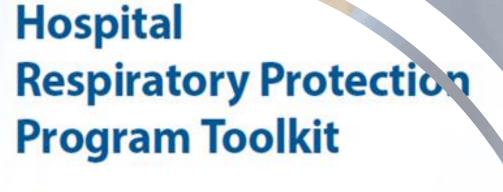


#### Acceptable Alternative PPE – Use Facemask









Resources for Respirator Program Administrators

MAY 2015





## **Introduction to This Toolkit**

This toolkit was developed to assist hospitals in developing and implementing effective respiratory protection programs, with an emphasis on preventing the transmission of aerosol transmissible diseases (ATDs) to healthcare personnel.

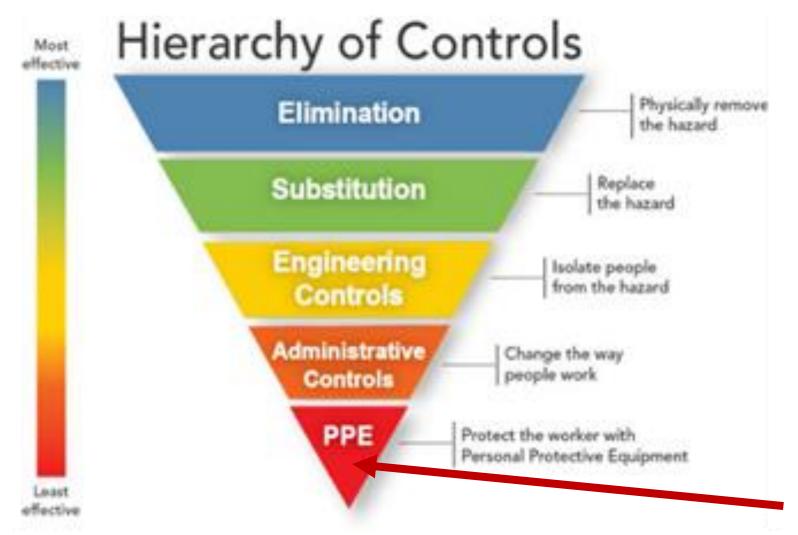


## Respiratory Protection Program

Taken from Minnesota Department of Health: Proper Respirator
 Use: Public Health Respiratory Protection Program Template:
 <a href="https://www.health.state.mn.us/facilities/patientsafety/infectioncontrol/rpp/template/respuse.html">https://www.health.state.mn.us/facilities/patientsafety/infectioncontrol/rpp/template/respuse.html</a>

- Policy
- The purpose of this program is to ensure that all employees required to wear respiratory protection as a condition of their employment are protected from respiratory hazards through the proper use of respirators





## Respirator

#### Picture is from the following site:

https://www.cdc.gov/niosh/topics/hierarchy/default.html



## Interdisciplinary Expertise and Approaches

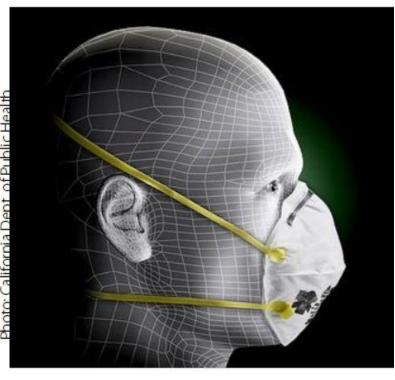
- Prevention of COVID-19 by airborne transmission
- Social distancing,
- Face and respiratory protection
- Hand hygiene
- Surface cleaning and disinfection
- Ventilation
- Avoidance of crowded indoor spaces
- Special engineering controls in the healthcare setting



## Mask vs Respirator



Healthcare personnel wearing a surgical mask.



3M(TM) Particulate Respirator 8210, N95

Surgical masks – fluid resistant

Procedure or isolation masks – not fluid resistant

Facemasks and respirators are very different in their design, performance and purpose.



**Facemask**—A loose-fitting, disposable device that creates a physical barrier between the mouth and nose of the wearer and potential contaminants in the immediate environment. Facemasks may be labeled as surgical, laser, isolation, dental, or medical procedure masks and are cleared by the FDA for marketing. They may come with or without a face shield. Facemasks do not seal tightly to the wearer's face, do not provide the wearer with a reliable level of protection from inhaling smaller airborne particles, and are not considered respiratory protection.



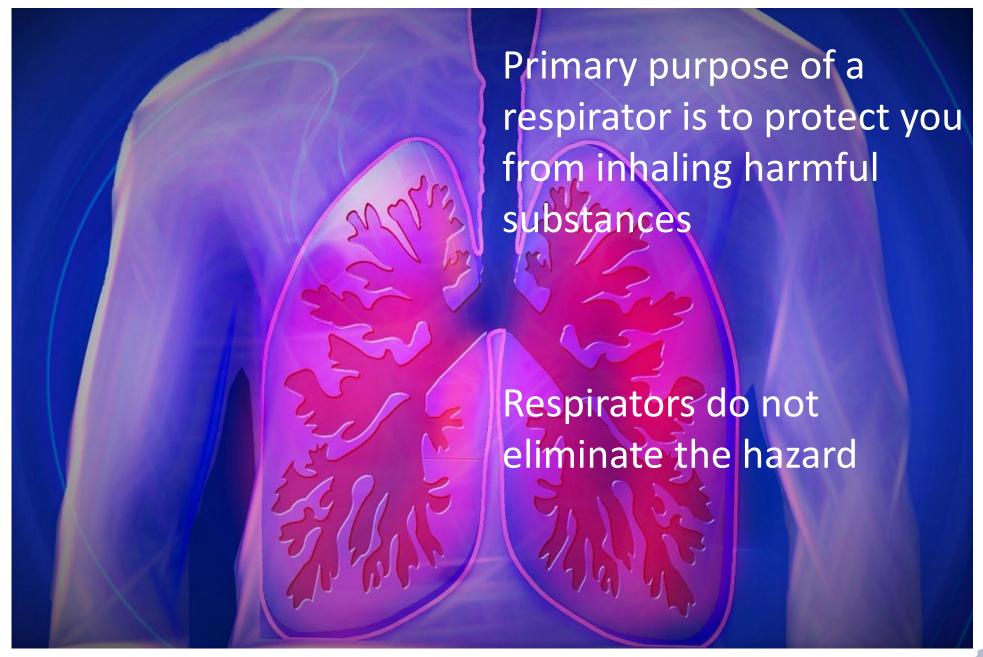
Surgical Mask



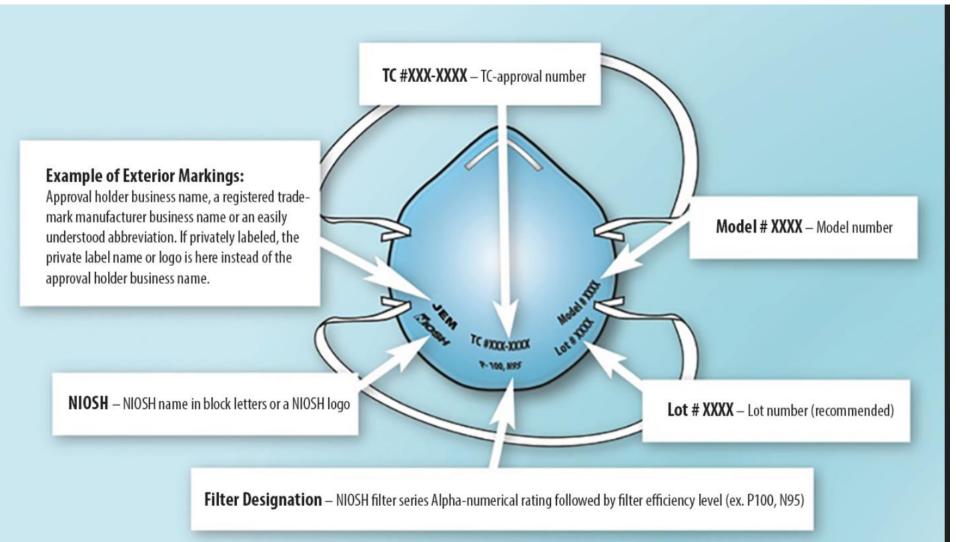
N95 respirator—A generally used term for a half mask air-purifying respirator with NIOSH-approved N95 particulate filters or filter material (i.e., includes N95 filtering facepiece respirator or equivalent protection).







## Respirator

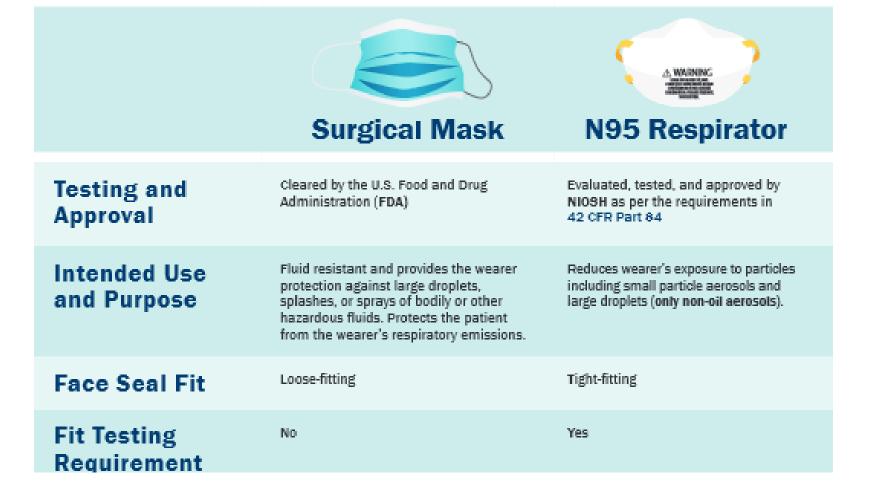


Source: NIOSH



**EXTERIOR VIEW** 

## **Understanding the Difference**



Differentiate
between
different
types of face
coverings
and
respirators





## **Understanding the Difference**







#### N95 Respirator

User Seal Check Requirement Νo

Yes. Required each time the respirator is donned (put on)

Filtration

Does NOT provide the wearer with a reliable level of protection from inhaling smaller airborne particles and is not considered respiratory protection Filters out at least 95% of airborne particles including large and small particles

Leakage

Leakage occurs around the edge of the mask when user inhales When properly fitted and donned, minimal leakage occurs around edges of the respirator when user inhales

**Use Limitations** 

Disposable. Discard after each patient encounter. Ideally should be discarded after each patient encounter and after aerosolgenerating procedures. It should also be discarded when it becomes damaged or deformed; no longer forms an effective seal to the face; becomes wet or visibly dirty; breathing becomes difficult; or if it becomes contaminated with blood, respiratory or nasal secretions, or other bodily fluids from patients.



Source: CDC/NIOSH, 2018





Healthcare personnel wearing a powered air-purifying respirator while treating a patient.

 Powered Air-Purifying Respirators (PAPRs) may be used in long term care



## WHOA!!!

- FORGET SOMETHING?
- Start with the Facility Assessment
- Then Infection Prevention Risk Assessment
- Then Infection Prevention and Control Program
- Then Respiratory Protection





ABOUT

NEWSROOM

CENTERS

RESOURCES

POLICY

**EVENTS** 

**MFMBFRS** 

CONS

## **RoP Facility Assessment** Toolkit §483.70(e)

The RoP Facility Assessment Toolkit © is designed to provide practical, step-by-step guidance for organizations as they eva their individual facility resident population, resource availability and allocation in accordance with resident care and servi and other required elements in developing their written facility assessment. View the full instructions of how to use this too Learn more about the overview, implementation, importance of data, and policy and procedure.

# Performance Improvement Project (PIP)

- Concentrate on a particular problem in one area of the facility or facility wide
- Gather information systematically
- Use team approach to identify the cause of a problem
- Fix problems that are important and meaningful for the specific type and scope of services



#### **PIP Team**

- Form PIP team for product selection and system change
- PIP team consists of those who use, purchase and pay for the PPE
- Front-line personnel
- Managers and supervisors
- Materials Management and Purchasing
- CEO, CFO, Owners may need to be part of the team



## **Root Cause Analysis**

- Problem: Need respiratory protection. Masks were not prioritized and respirators were never purchased
- No consistent process to ensure appropriate supplies of PPE and now no established pattern of PPE purchasing
- What is a respiratory protection program? (knowledge deficit)
- No competency-based training
- No time for infection preventionist to support respiratory protection program



## **Develop and Pilot**

- Pilot the fit test program on selected unit(s) or facilities (e.g. start with the COVID-19 unit)
- PIP team collect data on fit testing, supply, and staff response
- Potentially compare other indicators
- Modify and expand
- Document and take credit for a QAPI PIP!!



## References

- NIOSH Respiratory Protection Program <u>http://www.cdc.gov/niosh/topics/respirators/</u>
- US Department of Health and Human Services, 1999, OSHA
   Technical Manual: Respiratory Protection 29 CFR 1910.134
   <a href="http://www.osha.gov/SLTC/etools/respiratory/oshafiles/otherd-ocs.html">http://www.osha.gov/SLTC/etools/respiratory/oshafiles/otherd-ocs.html</a>



- CDC's guidance:
- NIOSH-approved N95 disposable filtering facepiece or higher-level respirators when providing care for patients with suspected or known COVID-19 is based on the current understanding of SARS-CoV-2 and related respiratory viruses.
- Current data suggest that close-range aerosol transmission by droplet and inhalation, and contact followed by self-delivery to the eyes, nose, or mouth are likely routes of transmission.
- Potential routes of close-range transmission include splashes and sprays of infectious material onto mucous membranes and inhalation of infectious virions exhaled by an infected person. The relative contribution of each of these is not known for SARS-Co-V-2.
- Respirators should be used as part of a respiratory protection program that provides staff with medical evaluations, training, and fit testing.
- CDC recommendations acknowledge the current challenges with limited supplies of N95s and other respirators.
- Facilities that do not have sufficient supplies of N95s and other respirators for all patient care should prioritize their use for activities and procedures that pose high risks of generating infectious aerosols and use facemasks for care that does not involve those activities or procedures.
- Detailed strategies for optimizing the supply of N95 respirators are available on the CDC website. Once availability of supplies is reestablished, the guidance states that the use of N95 and higher-level respirators should resume.





#### IMPORTANT RESOURCES:

- Hospital Respiratory Protection Program Toolkit http://www.cdc.gov/niosh/docs/2015-117/pdfs/2015-117.pdf
- OSHA Respiratory Protection Standard 1910.134 Appendix A https://www.osha.gov/pls/oshaweb/owadisp.show\_document?p\_table=STANDARDS&p\_id=9780
- Implementing Hospital Respiratory Protection Programs: Strategies from the Field http://www.jointcommission.org/assets/1/18/Implementing\_Hospital\_RPP\_2-19-15.pdf

#### **Department of Health and Human Services** Centers for Disease Control and Prevention

National Institute for Occupational Safety and Health









## **CDC** References

- Alsved M, Matamis A, Bohlin R, Richter M, Bengtsson P-E, Fraenkel C-J, P. Medstrand P, Löndahl J. (2020) Exhaled respiratory particles during singing and talking, Aerosol Science and Technology, 2020. doi: 10.1080/02786826.2020.1812502external icon.
- Bae S, Kim H, Jung TY, Lim JA, Jo DH, Kang GS, Jeong SH, Choi DK, Kim HJ, Cheon YH, Chun MK, Kim M, Choi S, Chun C, Shin SH, Kim HK, Park YJ, Park O, Kwon HJ. Epidemiological Characteristics of COVID-19 Outbreak at Fitness Centers in Cheonan, Korea. J Korean Med Sci. 2020 Aug 10;35(31):e288. doi: 10.3346/jkms.2020.35.e288. PMID: 32776726; PMCID: PMC7416003.
- Brlek A, Vidovič Š, Vuzem S, Turk K, Simonović Z. Possible indirect transmission of COVID-19 at a squash court, Slovenia, March 2020: case report. Epidemiol Infect. 2020 Jun 19;148:e120. doi: 10.1017/S0950268820001326. PMID: 32600479; PMCID: PMC7327185.
- Cai J, Sun W, Huang J, Gamber M, Wu J, He G. Indirect Virus Transmission in Cluster of COVID-19 Cases, Wenzhou, China, 2020. Emerg Infect Dis. 2020 Jun;26(6):1343-1345. doi: 10.3201/eid2606.200412. Epub 2020 Jun 17. PMID: 32163030; PMCID: PMC7258486.
- Hamner L, Dubbel P, Capron I, Ross A, Jordan A, Lee J, Lynn J, Ball A, Narwal S, Russell S, Patrick D, Leibrand H. High SARS-CoV-2 Attack Rate Following Exposure at a Choir Practice Skagit County, Washington, March 2020. MMWR Morb Mortal Wkly Rep. 2020 May 15;69(19):606-610. doi: 10.15585/mmwr.mm6919e6. PMID: 32407303.
- Infection Prevention and Control of Epidemic- and Pandemic-Prone Acute Respiratory Infections in Health Care. Geneva: World Health Organization; 2014. PMID: 24983124.
- Jang S, Han SH, Rhee JY. Cluster of Coronavirus Disease Associated with Fitness Dance Classes, South Korea. Emerg Infect Dis. 2020 Aug;26(8):1917-1920. doi: 10.3201/eid2608.200633. Epub 2020 May 15. PMID: 32412896; PMCID: PMC7392463.
- Li Y, Leung GM, Tang JW, Yang X, Chao CY, Lin JZ, Lu JW, Nielsen PV, Niu J, Qian H, Sleigh AC, Su HJ, Sundell J, Wong TW, Yuen PL. Role of ventilation in airborne transmission of infectious agents in the built environment a multidisciplinary systematic review. Indoor Air. 2007 Feb;17(1):2-18. doi: 10.1111/j.1600-0668.2006.00445.x. PMID: 17257148.
- Li Y, Qian H, Hang J, Chen X, Hong L, Liang P, Li J, Shenglan X, We J, Liu L, Kang M. Evidence for probable aerosol transmission of SARS-CoV-2 in a poorly ventilated restaurant. medRxiv. doi.org/10.1101/2020.04.16.20067728. 2020.
- Lu J, Gu J, Li K, Xu C, Su W, Lai Z, Zhou D, Yu C, Xu B, Yang Z. COVID-19 Outbreak Associated with Air Conditioning in Restaurant, Guangzhou, China, 2020. Emerg Infect Dis. 2020 Jul;26(7):1628-1631. doi: 10.3201/eid2607.200764. Epub 2020 Apr 2. PMID: 32240078; PMCID: PMC7323555.
- Lu J, Yang Z. COVID-19 Outbreak Associated with Air Conditioning in Restaurant, Guangzhou, China, 2020. Emerg Infect Dis. 2020 Sep 11;26(11). doi: 10.3201/eid2611.203774. Epub ahead of print. PMID: 32917292.
- Morawska L, Milton DK. It is Time to Address Airborne Transmission of COVID-19. Clin Infect Dis. 2020 Jul 6:ciaa939. doi: 10.1093/cid/ciaa939. Epub ahead of print. PMID: 32628269; PMCID: PMC7454469.
- Oran DP, Topol EJ. Prevalence of Asymptomatic SARS-CoV-2 Infection: A Narrative Review. Ann Intern Med. 2020 Sep 1;173(5):362-367. doi: 10.7326/M20-3012. Epub 2020 Jun 3. PMID: 32491919; PMCID: PMC7281624.
- Shen Y, Li C, Dong H, Wang Z, Martinez L, Sun Z, Handel A, Chen E, Ebell MH, Wang F, Yi B, Wang H, Wang X, Wang A, Chen B, Qi Y, Liang L, Li Y, Ling F, Chen J, Xu G. Community Outbreak Investigation of SARS-CoV-2 Transmission Among Bus Riders in Eastern China. JAMA Intern Med. 2020 Sep 1. doi: 10.1001/jamainternmed.2020.5225. Epub ahead of print. PMID: 32870239.
- Tang S, Mao Y, Jones RM, Tan Q, Ji JS, Li N, Shen J, Lv Y, Pan L, Ding P, Wang X, Wang Y, MacIntyre CR, Shi X. Aerosol transmission of SARS-CoV-2? Evidence, prevention and control. Environ Int. 2020 Aug 7;144:106039. doi: 10.1016/j.envint.2020.106039. Epub ahead of print. PMID: 32822927; PMCID: PMC7413047.
- World Health Organization. (2020). Transmission of SARS-CoV-2: implications for infection prevention precautions: scientific brief, 9 July 2020, World Health Organization. https://www.who.int/news-room/commentaries/detail/transmission-of-sars-cov-2-implications-for-infection-prevention-precautionsexternal icon
- Yu IT, Li Y, Wong TW, Tam W, Chan AT, Lee JH, Leung DY, Ho T. Evidence of airborne transmission of the severe acute respiratory syndrome virus. N Engl J Med. 2004 Apr 22;350(17):1731-9. doi: 10.1056/NEJMoa032867. PMID: 15102999.



## **FAQ** from last week

 Q: Can you expand on the definitions of a facility onset positive staff versus a positive staff?

What is the current stance on indoor visitation? Is IDPH still
recommending we wait until the Governor approves the new plan or
follow the guidance of CMS or previously guidance published on 8/13?



## Open Q&A

Submit questions via Q&A pod to All Panelists

Please do not resubmit a single question multiple times

Slides and recording will be made available after the session.



## Reminders

- SIREN Registration
  - —To receive situational awareness from IDPH, please use this link to guide you to the correct registration instructions for your public health related classification: <a href="http://www.dph.illinois.gov/siren">http://www.dph.illinois.gov/siren</a>
- NHSN Assistance
  - Contact Telligen: nursinghome@telligen.com

