

Personal Protective Equipment (PPE) Guidance and Practical Approaches for Improved Outcomes

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Disease Transmission

COVID-19

- Primary mode of transmission person to person
 - Small droplets from nose or mouth when a person with COVID-19 coughs, sneezes and even speaks
 - These droplets can also land of surfaces and other objects



https://www.cdc.gov/coronavirus/2019-ncov/faq.html#Coronavirus-Disease-2019-Basics



COVID-19 Symptoms

• 2-14 days, symptoms may appear:

- Fever or chills
- Cough
- Shortness of breath or difficulty breathing
- Fatigue
- Muscle or body aches
- Headache
- New loss of taste or smell
- Sore throat
- Congestion or runny nose
- Nausea or vomiting
- Diarrhea



https://www.cdc.gov/coronavirus/2019-ncov/symptomstesting/symptoms.html



Immediate Action

Response

- Prompt Identification
 - Screening
- Resident Placement
- Restriction communal dining and activities
- Transmission-based Precautions
- Cleaning and Disinfection
- Personal Protective Equipment (PPE)





Personal Protective Equipment







PPE Importance and Purpose



Types of PPE

- Gloves
- Gowns
- Eye Protection
- Face Masks
- N95 Respirators
- Other





PPE or Not PPE?

- What is NOT Considered PPE?
- Cloth Facemasks
- Bandanas
- Scarf
- Rain Ponchos
- Disposable or Reusable Lab Coats
- Reusable Resident Gowns
- Disposable Aprons
- Patient Gowns

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When IS PPE Required?

- COVID-19 Pandemic:
- All facility personnel must wear facemasks while in the facility
- If there are COVID-19 cases identified in the facility, healthcare workers should wear the recommended PPE for the care of all residents in line with the most recent DPH PPE guidance
- Employees working in facilities located in areas with moderate to substantial community transmission should wear eye protection in addition to facemasks during patient care encounters



https://www.cdc.gov/coronavirus/2019-ncov/hcp/infectioncontrol-recommendations.htm I

Resources and Guidance

- The State and Local Department of Health
- Centers for Disease Control and Prevention
- Centers for Medicare & Medicaid Services
- U.S. Federal Drug Administration
- U.S. Department of Labor Occupational Safety and Health Administration
- Quality Improvement Organizations
- Provider Associations



Guidance-CDC

CDC 24/7: Saving Lives, Protecting Peo	al and Prevention Se [™]	arch COVID-19 • Q Advanced Search	
oronavirus Disease 2019 (COVID-19)			
Your Health 🐱 Community,	Work & School V Healthcare Workers & Labs V Health Depts	✓ Cases & Data ✓ More ✓	
Healthcare Workers	HEALTHCARE WORKERS		
Testing +	Optimizing Supply of PPE and Othe	r Equipment during	
Clinical Care +	Shortages	-	
Infection Control +	Updated July 16, 2020 Print	() O 🗊 🛛 (
Optimize PPE Supply –	Personal protective equipment (PPE) is used every day by healthcare	Summary Strategies	
Summary Optimization Strategies	personnel (HCP) to protect themselves, patients, and others when providing care. PPE helps protect HCP from many hazards	to Optimize the Supply of PPE	
PPE Burn Rate Calculator	encountered in healthcare facilities.	Conventional Capacity Contingency Crisis Capacity consponding that should already to capacity consponding to capacity constant constant constant constant capacity constant capacity constant capacity constant	
Eye Protection	The greatly increased need for PPE caused by the COVID-19 pandemic has caused PPE shortages, posing a tremendous challenge to the U.S. health are proved by the formation of the state of	In Johns an part of general Machines prevention and cameral Jakes in healthcase settings wengened MM sharings wengened MM sharings wengened MM sharings weng	
Gowns	healthcare system. Healthcare facilities are having difficulty accessing the needed PPE and are having to identify alternate ways to provide	Conventional Contingency Crisis	
Gloves	patient care. Surge capacity refers to the ability to manage a sudden increase in		
Facemasks	patient volume that would severely challenge or exceed the present capacity of a facility. While there are no commonly accepted		
	measurements or triggers to distinguish surge capacity from daily		
N95 Respirators +	a decreased supply of PPE during the COVID-19 response. To help		
N95 Respirators + Powered Air Purifying Respirators	healthcare facilities plan and entimize the use of PDE in response to		
•	healthcare facilities plan and optimize the use of PPE in response to COVID-19, CDC has developed a <u>Personal Protective Equipment (PPE)</u>		
Powered Air Purifying Respirators			

Contingency capacity strategies should only be implemented after considering and implementing convention

https://www.cdc.gov/coronavirus/2019ncov/hcp/ppe-strategy/index.html



First Responder Guidance

Reporting

- Centers for Medicare and Medicaid Services (CMS)
 - Communicable Disease Reporting
 - Transparency

https://www.cdc.gov/nhsn/ltc/covid19/index.html

DC Centers for Disease Control and Prevent		ntion		
CDC 24/7: Saving Lives, Protectin	g People™		Search	Search NHSN 👻 🖸
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tional Healthcare Saf	ety Network ((NHSN)		
> NHSN $>$ Materials for Enrolled F	acilities > Long-term	Care Facilities		Ø O 🗇 🧐
NHSN	LTC	F COVID-19 Module		
IHSN Login				
About NHSN	+	NHSN has received an unprecedented number of ir the Centers for Medicare and Medicaid's (CMS') nev		
Enroll Here Change NHSN Facility	+	We are making every effort to respond to every que surge in volume, we strongly recommend reviewing the NHSN helpdesk.		
Administrator		CMS COVID-19 Reporting Requirements for Nursing	<u>g Homes</u> <u> [</u> PDF – 200 KB] -	- May 8, 2020
Naterials for Enrolled Facilities	-	FAQs about COVID-19 Data Published by CMS 🥦 [P	PDF – 200 KB]	
COVID-19 Information	+			
Ambulatory Surgery Centers		HSN provides healthcare facilities, such as long term car is and prevention process measures in a systematic way		tomized system to track
Acute Care Hospitals/Facilities	0	this information allows facilities to identify problems, care, and determine progress toward facility and nation		19 Module for LTCF
Long-term Acute Care Hospitals/Facilities	+ healthca	re-associated infection goals.		
Long-term Care Facilities	nation's (IN Long-term Care Facility Component is supporting the COVID-19 response by introducing a new COVID-19 Mo	dule Resident Sta Impact & Deve	onnel Personal Capacity &
COVID-19 Module	COVID-1	Term Care Facilities. Facilities eligible to report into the 9 Module include nursing homes/skilled nursing, long-tu	erm Capacity Im	pact Equipment Supplies
Surveillance for C. difficile Infection (CDI) and Multidrug Resistant Organisms (MDRO)	1	the developmentally disabled, and assisted living faciliti ID-19 Module for LTCFs consists of four pathways withi		acility Component:
Surveillance for Urinary Tract Infections (UTI)		lent Impact and Facility Capacity and Personnel Impact		
Surveillance for Prevention Proces		lies and Personal Protective Equipment lator Capacity and Supplies		



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Practical Approaches

PPE Strategies



Questions to Ask...

- Do you have measures for obtaining an adequate supply of at least 2 weeks of PPE?
- Do you have a contingency plan for shortages?
- Have you trained your staff in proper selection, donning and doffing?
- Is PPE available outside the resident rooms?
- Are trash receptacles in strategic locations near the exit of the resident room?
- If COVID-19 cases are in the building, are staff wearing PPE for care of all residents?
- Do residents wear facemasks when they leave the room?
- Are all employees wearing facemasks in the facility?





#I Policy and Procedure

Policies and Procedures for PPE





#2 Determine Supply Needs





Determine Needs

CDC Burn Rate Calculator

https://www.cdc.gov/coronavirus/20 19-ncov/hcp/ppe-strategy/burncalculator.html

CDC 24/7: Saving Lives, Protec				Search	A-Z Index COVID-19 Q Advanced Search (3)
Coronavirus Disease	2019	(COVID-19)	<u>k</u>	WEAR A MASK	A CONTRACTOR
Your Health 🐱 Comr	nunity, W	/ork & School 🗸 Healthcare W	/orkers & Labs 🗸 Health De	pts 🗸 Cases & Data	a 🗸 More 🗸
f Healthcare Workers		HEALTHCARE WORKERS			
Testing	+	Personal Protect	ive Equipment (P	PE) Burn Rate	e Calculator
Clinical Care	+	Updated Apr. 7, 2020	Print	G) 💙 🛅 😂 🍪
Infection Control	+				
Optimize PPE Supply	_	Mobile app version			
Summary Optimization Strateg	ies	PPE Tracker app to calculate the	ent (PPE) Burn Rate Calculator is now ir average PPE consumption rate or ' t inventory levels and PPE burn rate.	'burn rate." The app estimate	es how many days a
PPE Burn Rate Calculator		devices. Visit the <u>NIOSH PPE</u>	Tracker app page to download this f	ree tool.	
Eye Protection		The Personal Protective Equipmen		Personal Protecti	ve Equipment
Gowns		[3 sheets] is a spreadsheet-based r facilities plan and optimize the use	nodel that will help healthcare of PPE for response to coronavirus	(PPE) Burn Rate C	
Gloves		disease 2019 (COVID-19). Non-heal facilities may also find this tool use	thcare facilities such as correctional ful.	CORONAVIRUS DISEASE 2019	Use this Excel
Facemasks		To use the calculator, enter the nu	mber of full boxes of each type of		spreadsheet to calculate your PPE
N95 Respirators	+	PPE in stock (gowns, gloves, surgica shields, for example) and the total	al masks, respirators, and face number of patients at your facility.	Contraction and performance	burn rate
Powered Air Purifying Respirato	ors	The tool will calculate the average as a "burn rate," for each type of Pl	consumption rate, also referred to PE entered in the spreadsheet. This		
Elastomeric Respirators		information can then be used to es		COC PPE Burn Rate Cal	Culator Tutorial Tutorial Tutorial
Ventilators		the calculator can help facilities ma needs.		Claves write total a temperature write tage No. 200 No. 200	1.03 444 5.55 10 10 10 10 10 10 10 10 10 10 10 10 10
PPE FAQ		System Requirements		Emplosion Lagloi Mode	4.50 Feacherson Marstell
Potential Exposure at Work	+	Windows* operating system (Microsoft Excel (MS Office 200)		Fr. a 2040 - 5 11 - 11 - 1 11 - 11 - 1 11 - 11 - 1	120 120 Trai Valo
First Responder Guidance		 486 Pentium processor and a 	t least 128MB RAM		



Questions to Ask?

- Do you have a stable source of at least 2 weeks of:
 - Facemasks
 - Respirators
 - Gowns
 - Gloves
 - Eye Protection





#3 PPE Education

Education and Demonstration





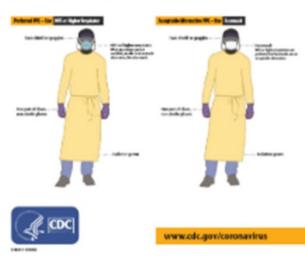
Use Personal Protective Equipment (PPE) When Caring for Patients with Confirmed or Suspected COVID-19

Refere caring for patients with confirmed or sugneted OMD-11, beathcare personnel (HCP) must: Brooker comprehensive braining or alter, and what F.N is pressary, how to designized and dolf links off PPL, Instations of \$50, and proper ters, material and a \$50.

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Remembers

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How to Put On and Take Off PPE -Fact Sheet 8.5 x 11 [PDF – 1 page]

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



https://www.cdc.gov/coronavirus/201 9-ncov/hcp/using-ppe.html

Donning and Doffing

- Have a system for employees to receive adequate training and return demonstration
- Continue to verify competency with process audits
- Designate lead employees to support, teach, mentor and hold staff accountable on all shifts
- Help, ask, do





#4 Optimizing PPE

Policies and Procedures
Employee Education
Follow Guidance
Audit and Monitor





5 Surveillance

Infection Prevention and Control Manual Interim Personal Protective Equipment (PPE) Audit- COVID-19 Pandemic

Personal Protective Equipment (PPE) - COVID-19 Audit

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Infection Prevention and Control Manual Interim Personal Protective Equipment (PPE) Audit- COVID-19 Pandemic

Mask or Respirator		
1. Grasps bottom, then top ties or elastics and		
removes		
2. Does not touch the front of the mask or respira	or	
(contaminated)		
Disposes of properly		
5. The employee used the proper technique and or	ler	
to don and removed PPE		
6. PPE was removed at doorway or anteroom		
7. Perform Hand Hygiene		
Other		
 Residents who leave facility for medical 		
appointments (i.e. dialysis, chemotherapy) wea	.	
masks outside of room		
2. Residents who are discharged/transported outs	ide	
of facility wear a mask		
Comments		
Comments		
Employee		Date
-піріоуее		
Evaluator		Date
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- ncov/downloads/A_FS_HCP_COVID19_PPE.pdf
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- Centers for Medicare & Medicaid Services. QSO-20-14-NH. Guidance for Infection Control and Prevention of Coronavirus Disease 2019 (COVID-19) in Nursing Homes (REVISED). March 13, 2020: https://www.cms.gov/files/document/3-13-2020-nursing-home-guidance-covid-19.pdf
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- Centers for Medicare & Medicaid Services. QSO-20-29-NH. May 6, 2020: Interim Final Rule Updating Requirements for Notification of Confirmed and Suspected COVID-19 Cases Among Residents and Staff in Nursing Homes, May 6, 2020: https://www.cms.gov/files/document/gso-20-29-nh.pdf

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#6 Performance Improvement





#7 Supporting Team Members











References and Resources

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