COVID-19 GUIDELINES FOR PPE USE



Purpose: To provide clear guidance on appropriate use of personal protective equipment (PPE)

As we stop the spread of COVID-19, the safety of our staff, providers, and patients is our top priority

CURRENT RECOMMENDATIONS

Our current practice meets and/or exceeds the current CDC and state guidelines. These guidelines do **not** recommend the use of an N95 mask when treating asymptomatic patients. Most of the evidence suggests that this is transmitted only by droplet. Decisions regarding the use of additional personal protective equipment (PPE) must be made based upon the best use of available resources.

Recommendations prioritize healthcare worker safety and PPE preservation over education during the COVID-19 pandemic. The ABSOLUTE minimum number of providers involved in care requiring PPE MUST be observed for any encounter.

Please note the distinction between single use and re-use for masks of all types.

Ambulatory and Inpatient Non-Procedure Patient Encounters

Risk of Exposure to Providers/Staff						
High—In-patient and Ambulatory	Moderate— Ambulatory	Moderate	Low			
 Patient confirmed with COVID-19 Patient under investigation (PUI) 	 Influenza-like symptoms but not PUI for COVID-19 (e.g. Cancer Center) 	 Exam involving asymptomatic patients 	Non-direct patient care rolesNon-clinical environments			
	Patient					
Procedure mask with Re-use* when not able to social distance N/A						
Provider/Staff						
 Single use N95 mask* Goggles Gown Gloves 	 Procedure mask* Goggles/Face Shield* Gown Gloves 	Procedure mask*Gloves	 Social Distancing Recommended Procedural mask* when not able to social distance Refer to "Non-Clinical PPE Guidelines" and "Mask Protocol for Administrative Buildings and Spaces" 			

^{*} Refer to "Recommendations for N95 and Face Mask Extended Use and Re-use" guideline on page 4-5 for guidance for extended use N-95 in drive-thru testing centers and/or dedicated COVID-19+ units or Procedure Mask re-use.

References:

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

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

^{**} Homemade masks are not recommended for health care workers in the clinical setting

COVID-19 GUIDELINES FOR PPE USE



Purpose: To provide guidelines on the appropriate use of PPE for specific patient encounters

As we stop the spread of COVID-19, the safety of our staff, providers, and patients is our top priority

INTERVENTIONAL PROCEDURES

High-Risk Procedures

Intubation & Extubation, procedures involving the upper respiratory tract and gastrointestinal tract <u>with</u> risk for aerosolization, such as endoscopy, bronchoscopy, and laryngoscopy.

Risk of Exposure to Providers/Staff				
High **Must be approved by chair of primary surgical dept. SHC: Dr. Pearl and Dr. Wald	Low			
 LPCH: Surgeon-in-Chief Dr. Dunn and Dr. Fehr Patient confirmed with COVID-19 PUI 	Asymptomatic patientsor COVID-19 negative tested in last 72 hours			
Patient Procedure mask* Provider/Staff				
 Single use N95 mask* or PAPR if EMERGENT procedure when aerosolization is most difficult to control Goggles or Face Shield Gown Gloves 	 Surgical mask with goggles or face shield May choose re-use N95 mask; MUST use face shield to allow for mask re-use***(see pic B pg 3) Gown Gloves 			

^{*}PAPR available if provider/staff failed N95 fit test

*** Refer to "Recommendations for N95 and Face Mask Extended Use and Re-use" on page 4-5

Low-risk Procedures^:

AThese recommendations do not apply to the intubation portion of the procedure

Non-aerosol generating procedures of the aero-digestive tract and all other procedures

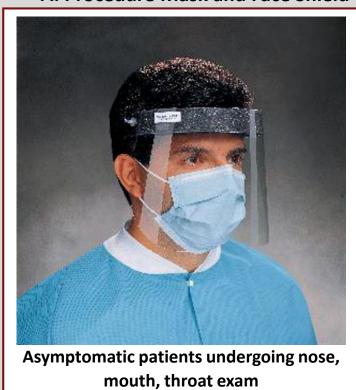
Risk of Exposure to Providers/Staff				
High	Low			
**Must be approved by chair of primary surgical dept.				
SHC: Dr. Pearl and Dr. Wald				
LPCH: Surgeon-in-Chief Dr. Dunn and Dr. Fehr				
Patient confirmed with COVID-19	Asymptomatic patients			
• PUI				
Patient				
Procedure mask*				
Provider/Staff				
Single use N95 mask*	Surgical mask			
Goggles or Face Shield	Goggles or face shield			
Gown	Gown			
Gloves	Gloves			



Purpose: To provide guidelines on the appropriate use of PPE for specific patient encounters

Please note the distinction between single use and reuse for masks of all types.

A. Procedure Mask and Face Shield



B. N95 Mask and Face Shield



Aerosol Generating Procedures in Low-Risk Asymptomatic Patients and Exams ONLY

Examples of PPE: Supply appearance subject to change based on availability





COVID-19 N95 and FACE MASK EXTENDED USE AND RE-USE GUIDELINES

Purpose: To provide guidelines on the appropriate extended use and re-use of masks

Definitions

Types of PPE use:

Normal use	The practice of using PPE for one encounter with one patient and then disposed.
Extended use	Per CDC: Extended use refers to the practice of wearing the same N95 respirator for repeated close contact encounters with several patients, without removing the respirator between patient encounters.
Re-use	Per CDC: Re-use refers to the practice of using the same PPE for multiple encounters with patients but removing it after each encounter.

Types of masks:

Face mask, including	Mask covering nose and mouth to protect the wearer and/or the environment
procedure mask and surgical	from respiratory droplets. Face masks are rated level 0-3 based on their fluid
mask	resistance; Level 2-3 are prioritized for use in the OR and for patient care
	involving risk for fluid exposure.
N95 mask	Respirators used to protect the wearer from airborne particulates. These
	masks are also rated for fluid resistance. These require fit testing and fit
	checking.

Implementation:

Re-use of procedure masks in direct patient care areas

Safe re-use of procedure masks—re-use in settings with low risk of exposure is critical to conserve PPE: below is the guidance to reduce the risk of self-inoculation.

- Care must be taken to ensure that the health care provider does not touch the outer surface of the mask during care.
 - Perform hand hygiene before and after touching **OR** adjusting the procedure mask
- Mask removal and replacement must be done in a careful and deliberate manner to avoid self-inoculation.
- The mask must be discarded if soiled, damaged, difficult to breathe through, or at the end of a single shift.
- When not in use, the mask must be stored in
 - a clean paper bag with name labeled.
 - mask should be carefully folded for storage so that the outer surface is held inward and against itself.

OR

- on a paper towel with name labeled, if the mask will remain with you
 - with the outward facing, "dirty" side down on clean napkin
- Perform hand hygiene after touching the mask.
- Re-use of procedure masks may be used with a face shield during low- or moderate-risk exposure patient encounters to help protect the mask from moisture.

COVID-19 N95 and FACE MASK EXTENDED USE AND RE-USE GUIDELINES

Purpose: To provide guidelines on the appropriate extended use and re-use of masks

Re-use of procedure mask in non-direct patient care areas

- Masks must be discarded if they become soiled, damaged, or difficult to breathe through
- Masks should not be touched with the wearer's hands while being worn
- If the employee touches the mask, hand hygiene should be performed immediately
 - When not in use, the mask must be stored in
 - A clean paper bag with name labeled.
 - Mask should be carefully folded for storage so that the outer surface is held inward and against itself.

OR

- · On a paper towel or napkin with name labeled, if the mask will remain with you
 - Mask should be placed with outward facing, "dirty" side down on clean napkin
- Perform hand hygiene after touching the mask.

Extended use of N95 respirators and face shields

- N95 Respirators may be used for extended periods of time only if:
 - Staff are working in a COVID-19 testing area OR
 - Staff are working in an inpatient COVID-19 landing zone with all confirmed COVID-19 patients
- Respirators must be used with a full face shield, in order to decrease the likelihood of contaminating the respirator
- Respirators and face shield may be used for continuous use for the entire shift, unless grossly soiled or compromised
- Discard N95 respirators that have become grossly soiled or compromised
 - Full Face shield (see cleaning & disinfection tip sheet) must be cleaned after each aerosol generating procedure
- Perform hand hygiene before and after touching OR adjusting the respirator or face shield

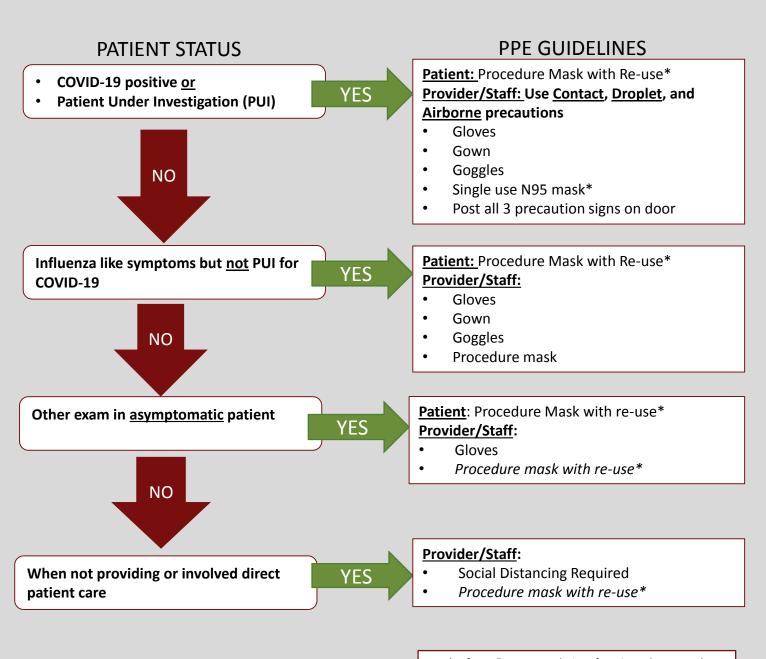
Re-use of N95 respirators

- Re-use of N95s in combination with a face shield may occur for use during low-risk exposure
 encounters for patients who are not suspected or confirmed COVID-19, as defined in the
 "Recommendations for PPE Use" document
- N95 respirators may be re-used for patients with suspected or confirmed TB
 - The mask should be removed in the anteroom (hallway for LPCH) and stored in a paper bag with the user's name
 - The mask may be re-used for one healthcare worker for one shift
 - If mask becomes grossly soiled or compromised during use, dispose of mask
- COVID-19 and other respiratory pathogens may also be transmitted by contact, therefore respirator re-use is NOT recommended

PPE Decision Tree: Ambulatory & Inpatient Non-Procedure Patient Encounters

Purpose: guide staff and providers in the selection of appropriate PPE based on patient status to prioritize healthcare worker safety and conserve PPE

The following decision tree ONLY applies to direct patient care in the outlined scenarios. When employees are not providing direct patient care to these specific patient populations, social distancing must be followed with procedure mask for re-use



*Refer to "Recommendations for N95 and Face Mask Extended Use and Re-use" on page 4-5



PPE Decision Tree: Interventional Procedures

Purpose: guide staff and providers in the selection of appropriate PPE based on patient status to prioritize healthcare worker safety and conserve PPE

The following decision tree ONLY applies to direct patient care in the outlined scenarios. When employees are not providing direct patient care to these specific patient populations, social distancing must be followed with procedure mask for re-use

PATIENT STATUS/PROCEDURE

COVID-19 positive or PUI or Unable to assess patient status (i.e. unresponsive trauma patient)

and is having a HIGH-RISK PROCEDURE:

- Intubation & Extubation
- Procedures involving the upper respiratory tract and gastrointestinal tract with risk for aerosolization, such as endoscopy, bronchoscopy, and laryngoscopy.
- Endoscopic nasal skull base surgery or mastoid surgery involving powered instrumentation

PROVIDER/STAFF PPE GUIDELINE

Use Contact, Droplet, and Airborne precautions

- Gloves
- Gown
- Eye protection/Face Shield
- Single use N95 mask OR
 - PAPR if
 - unable to wear N95 OR
 - **EMERGENT** procedure when aerosolization is most difficult to control
- Post "Contact, Droplet, and Airborne precaution signs on door for the duration of the procedure

NO

Asymptomatic or COVID-19 Negative within last 72 hours, and is having a **HIGH-RISK PROCEDURE:**

- Intubation & Extubation
- Procedures involving the upper respiratory tract and gastrointestinal tract with risk for aerosolization, such as endoscopy, bronchoscopy, and laryngoscopy.
- Endoscopic nasal skull base surgery or mastoid surgery involving powered instrumentation

YES

YES

Use High Exposure Risk PPE

- Gloves
- Gown
- Eye protection/Face shield
- Surgical mask
- May choose re-use N95 mask*. Must wear full face shield with re-use mask
- Post "High Exposure Risk" sign on door for the duration of the procedure

NO

Asymptomatic or Covid-19 Negative within last 72 hours, and is having a **LOW-RISK PROCEDURE:**

- Non-aerosol generating procedures of the aero-digestive tract and all other procedures
- Intubation & extubation portion still falls under High-Risk

YES

Use Universal Precautions & Aseptic Technique Surgical/Procedural team:

- - Gloves
 - Gown
 - Eye protection/face shield
 - Surgical mask
- Circulator:
 - Surgical mask
 - Eye protection
 - Don gloves for direct patient care
- Anesthesiologist:
 - Don High Risk PPE during intubation & extubation. Use full face shield if wearing reuse N95 mask*.
 - Use regular PPE during the Low-Risk surgical/interventional procedure

*Refer to "Recommendations for N95 and Face Mask Extended Use and Re-use" Document

