

CHI Franciscan PPE Conservation Capacity Tools

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COVID-19: Optimizing PPE During Shortages

Conventional Capacity

strategies that should already be in place as part of general infection prevention and control plans in healthcare settings



Contingency Capacity





strategies that can be used during periods of anticipated PPE shortages

Crisis Capacity*

strategies that can be used when supplies cannot meet the facility's current or anticipated PPE utilization rate






*Not commensurate with U.S. standards of care

PPE Type	Conventional	Contingency	Crisis
All PPE 	<ul style="list-style-type: none"> Use physical barriers and other engineering controls Limit number of patients going to hospital or outpatient settings Use telemedicine whenever possible Exclude all HCP not directly involved in patient care Limit face-to-face HCP encounters with patients Exclude visitors to patients with known or suspected COVID-19 Cohort patients and/or HCP 	<ul style="list-style-type: none"> Selectively cancel elective and non-urgent procedures and appointments for which PPE is typically used by HCP Decrease length of hospital stay for medically stable patients with COVID-19 	<ul style="list-style-type: none"> Cancel all elective and non-urgent procedures and appointments for which PPE is typically used by HCP
N95 Respirators 	<ul style="list-style-type: none"> Implement just-in-time fit testing Limit respirators during training Implement qualitative fit testing Use alternatives to N95 respirators such as other filtering facepiece respirators, elastomeric respirators, and powered air purifying respirators Additional guidance 	<ul style="list-style-type: none"> Temporarily suspend annual fit testing external icon Use N95 respirators beyond the manufacturer-designated shelf life for training and fit testing Extend the use of N95 respirators by wearing the same N95 for repeated close contact encounters with several different patients Additional guidance on contingency capacity strategies Additional guidance on extended use 	<ul style="list-style-type: none"> Use respirators beyond the manufacturer designated shelf life for healthcare delivery Use respirators approved under standards used in other countries Implement limited re-use of N95 respirators. During times of crisis, it may be needed to practice limited re-use on top of extended use Use additional respirators beyond the manufacturer-designated shelf life that have not been evaluated by NIOSH Prioritize the use of N95 respirators and facemasks by activity Additional guidance on crisis capacity strategies Additional guidance on re-use

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Face Masks 	<ul style="list-style-type: none"> Use facemasks according to product labeling and local, state, and federal requirements Additional guidance 	<ul style="list-style-type: none"> Place facemasks in a secure and monitored site Provide facemasks to symptomatic patients upon check-in at entry points Implement extended use of facemasks Restrict facemasks for use by HCP, rather than asymptomatic patients (who might use cloth face coverings) for source control Additional guidance 	<ul style="list-style-type: none"> Use facemasks beyond the manufacturer-designated shelf life during patient care activities Implement limited re-use of facemasks Prioritize facemasks for selected activities such as essential surgeries, activities where splashes and sprays are anticipated, prolonged face-to-face contact with an infectious patient, and aerosol-generating procedures <p><i>When no facemasks are available:</i></p> <ul style="list-style-type: none"> Use a face shield that covers the entire front (that extends to the chin or below) and sides of the face with no facemask Additional guidance
Gowns 	<ul style="list-style-type: none"> Use isolation gown alternatives that offer equivalent or higher protection Additional guidance 	<ul style="list-style-type: none"> Shift gown use toward cloth isolation gowns Consider the use of coveralls Use gowns beyond the manufacturer-designated shelf life for training Use gowns or coveralls conforming to international standards Additional guidance 	<ul style="list-style-type: none"> Extend the use of isolation gowns Re-use cloth isolation gowns Prioritize gowns for activities where splashes and sprays are anticipated and during high-contact patient care <p><i>When no gowns are available:</i></p> <ul style="list-style-type: none"> Consider using gown alternatives that have not been evaluated as effective Additional guidance
Eye Protection 	<ul style="list-style-type: none"> Use eye protection according to product labeling and local, state, and federal requirements Additional guidance 	<ul style="list-style-type: none"> Shift eye protection supplies from disposable to re-usable devices Extend the use of eye protection Additional guidance 	<ul style="list-style-type: none"> Use eye protection devices beyond the manufacturer-designated shelf life Prioritize eye protection for activities where splashes and sprays are anticipated or prolonged face-to-face or close contact is unavoidable Consider using safety glasses that cover the sides of eyes Additional guidance
Gloves 	<ul style="list-style-type: none"> Continue providing patient care as in usual infection control practice Additional guidance 	<ul style="list-style-type: none"> Use gloves past their manufacturer-designated shelf life for training activities Use gloves conforming to other U.S. and international standards Additional guidance 	<ul style="list-style-type: none"> Use gloves past their manufacturer-designated shelf life for healthcare delivery Prioritize the use of non-sterile disposable gloves Consider non-healthcare glove alternatives Extend the use of disposable medical gloves Additional guidance



General Inpatient PPE – Current Capacity Levels (not for SMMC)

PPE Type	PPE Capacity	Use	Practice
N95 Respirator 	Crisis	Limited Re-use	<ul style="list-style-type: none"> • Complete a seal check each time a N95 respirator is donned. If seal check does not pass, use a CAPR/PAPR • Wear a cleanable face shield over N95 • Full face shield must be worn with 8210 N95 respirator • Dispose N95 following use during an aerosol generating procedure, when soiled, damaged, after donning and doffing up to 5 times (store in a paper bag between uses) and at the end of shift
Face Mask 	Contingency	Extended Use	<ul style="list-style-type: none"> • Wear the same facemask for repeated close contact encounters with several different patients, without removing the facemask between patient encounters (exception: patients in isolation precautions). • Discard if soiled, damaged, completely removed from face OR upon exiting an isolation room • Perform hand hygiene immediately after touching or adjust mask. • Leave the patient care area when you need to remove facemask.
Gown 	Conventional	Single Use	<ul style="list-style-type: none"> • Use when splash/spray anticipated & per posted Isolation Signs
Eye Protection 	Contingency	Extended Use	<ul style="list-style-type: none"> • Eye protection dedicated to 1 person. • Removed and disinfected when visibly soiled or difficult to see through or removed from face (e.g. when leaving the clinical area or when eating) • Eye protection should be discarded if damaged. • Eye protection may not be worn on top of head while in a clinical area
Gloves <small>9/28/2020</small> 	Conventional	Single Use	<ul style="list-style-type: none"> • Use per standard and transmission based precautions.

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St. Michael Medical Center	
Personal Protective Equipment (PPE)	
Anonymous Concern: Call Patient Safety Hotline	(253) 426-6289
PPE Status:	
Conventional	Every day practices.
Contingency	Expected shortages. Worn for prolonged period for multiple patient contacts. Extended use strategies.
Crisis	Known shortages. Used beyond shelf-life. Re-use strategies.
Policies: Locate at PolicyStat -> SMMC -> 1	
COVID-19 Policy	Patient management practices
PAPR Use & Maintenance Policy	Routine use, maintenance and safety checks
CAPR Policy 718.25	Routine use, maintenance and safety checks
Chain of Command Policy 745.00	Elevate quality and safety concerns

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St. Michael Medical Center	CONVENTIONAL
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Simple/Surgical Mask and Eye Protection:	
<ul style="list-style-type: none"> - Anytime in hospital. Low-risk patient with screening test pend & No AGPs. - Dispose before eating, and when wet, soiled, damaged, or completely removed and at end of shift. - Eye protection in all Patient Care Areas. 	
N-95 and Eye Protection:	
<ul style="list-style-type: none"> - For PUI or positive COVID patient, during <u>all</u> AGPs. - N95 one time use, one patient encounter - Discard after AGP, after COVID-positive contact, and contact with PUI in isolation. 	
CAPR/PAPR:	
<ul style="list-style-type: none"> - For PUI or positive COVID patient and during <u>all</u> AGPs. - Multi-use with disinfection. Repair/filter change =disinfect, place in clear bag, send to Biomed. 	

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