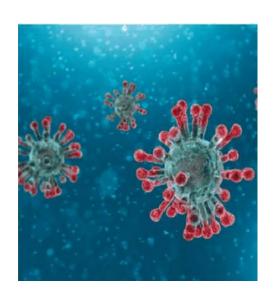
Preventing COVID-19 Transmission in Ambulatory Surgery Centers



- Sylvia Garcia-Houchins, MBA, RN, CIC Director, Infection Prevention and Control
- Lorrie Cappellino, RN, MS, CNOR Surveyor, Ambulatory Health Care
- Herman A. McKenzie, MBA, CHSP
 Director of Engineering, Standards Interpretation
 Group



Intended Audience

This webinar is being presented to help organizations planning to resume elective procedures.

Focus on key issues and prevention strategies to consider prior to resuming elective procedures in ambulatory surgical centers based on what we know about COVID-19.





Acknowledgement



The Joint Commission Disclaimer

These slides are current as of May 5, 2020. The Joint Commission reserves the right to change the content of the information, as appropriate.

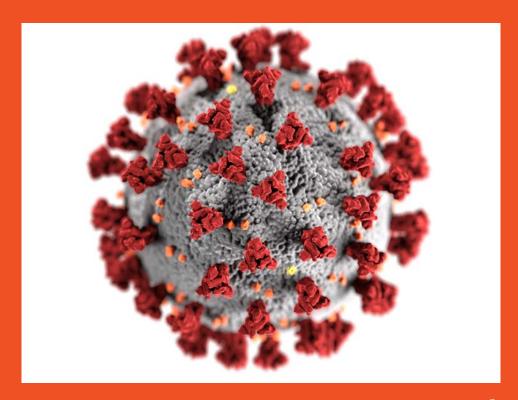
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COVID-19



Remember How Transmission Occurs



Source: CDC\Brian Judd https://phil.cdc.gov/details.aspx?pid=11161

- Person to person via droplets (6 feet)
- Airborne transmission (aerosol generating procedures)
- Transmission via surfaces
 - viable for hours to days on surfaces





Morbidity and Mortality Weekly Report

March 27, 2020

Asymptomatic and Presymptomatic SARS-CoV-2 Infections in Residents of a Long-Term Care Skilled Nursing Facility — King County, Washington, March 2020

- 23 of 76 (30.3%) surveyed tested positive for COVID-19
 - 10 had symptoms (8 typical; 2 atypical)
 - 13 had no symptoms
 - 10 developed symptoms (mean interval 3 days)
 - 3 did not develop symptoms

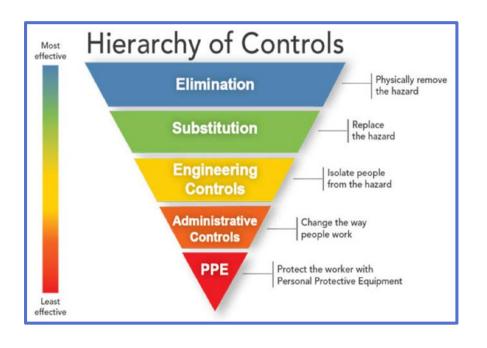


Presymptomatic and Asymptomatic Spread

The NEW ENGLAND JOURNAL of MEDICINE Presymptomati E CO CO Transmi OMATICCO Infection . James, J.R. Jacobs, J. Taylor, war, J.W. Dyal, J. Harney, Z. Chisty, earlson, H.P. McLaughlin, N. Thornburg, enara, J. Harcourt, S. Clark, C. Brostrom-Smith, Montgomery, N.D. Stone, T.A. Clark, M.A. Honein, . Jernigan, for the Public Health–Seattle and King County and CDC COVID-19 Investigation Team*



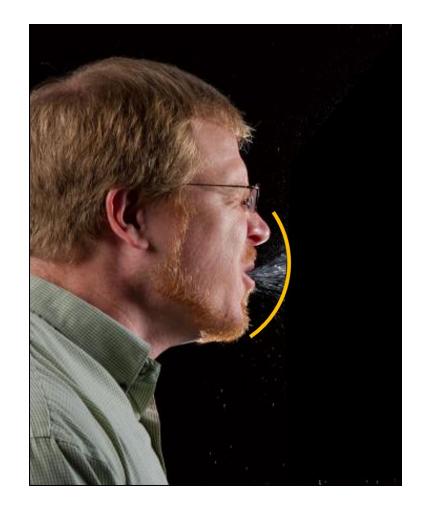
Use What We Know to Stop Transmission



- Elimination limit visitors
- Substitution block vs general anesthesia
- Engineering controls –
 smoke evacuator
- Administrative controls –
 take staff temperatures
- PPE source control

Use What We Know to Stop Transmission

- Source Control
- Social Distancing
- Appropriate PPE
- Hand Hygiene
- Clean and disinfect surfaces







Source Control: Universal Masking

- Patients/Visitors
 - Face covering
- Healthcare Workers
 - Leaving home face covering
 - Direct patient care medical mask
 - No direct care face covering



Statement on Universal Masking of Staff, Patients, and Visitors in Health Care Settings April 23, 2020

On April 13, 2020, the U.S. Centers for Disease Control and Prevention revised its <u>infection prevention and control recommendations</u> related to COVID-19. To address <u>asymptomatic and pre-symptomatic transmission</u>, CDC recommended that healthcare facilities "...implement source control for everyone entering a healthcare facility (e.g., healthcare personnel, patients, visitors), regardless of symptoms..." Source control involves having people wear a cloth face covering or facemask over their mouth and nose to contain their respiratory secretions and thus reduce the dispersion of droplets from an infected individual. This will decrease the possibility that anyone with unrecognized COVID-19 infection will expose others and will allow organizations to forgo contact tracing if a case is identified. For source control to be effective, it requires that everyone wear a mask within healthcare buildings to <u>prevent droplet and (to a lesser degree) aerosol spread</u> of respiratory viruses such as COVID-19.

The Joint Commission supports the CDC's recommendations. The Joint Commission believes that universal masking within healthcare settings is a critical tool to protect staff and patients from being infected by asymptomatic and presymptomatic individuals and should be implemented in any community where coronavirus is occurring. Even a single case of community spread of COVID-19 means the healthcare facilities and staff are at risk because other asymptomatic and presymptomatic patients may come in for care and inadvertently infect staff. This document summarizes key steps and provides materials that may be helpful in implementing this recommendation.

Patients and Visitors

All patients and visitors should be instructed to wear a cloth mask when entering any healthcare building. If they arrive without a cloth mask, one should be provided. If there is a sufficient supply of medical grade facemasks one may be provided instead of a cloth mask. In accordance with CDC recommendations, facemasks and cloth face coverings should not be placed on young children under age 2, anyone who has trouble breathing, or anyone who is unconscious, incapacitated or otherwise

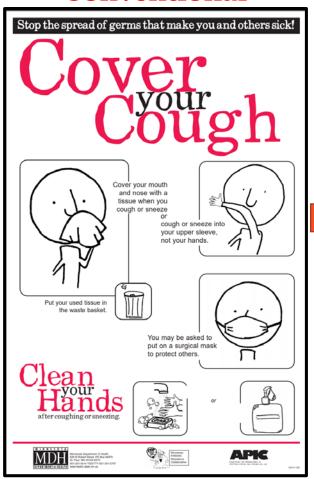
https://www.jointcommission.org/-/media/tjc/documents/resources/patient-safetytopics/infection-prevention-and-hai/covid19/universalmasking-statement-04232020.pdf



Source Control: Modify Practices

Respiratory Etiquette:

Conventional



Source Control:

NEW

STOP THE SPREAD OF CORONAVIRUS

Wear a mask when you leave home!

- Help protect our healthcare workers by wearing a mask in our building, just as you would anywhere outside your home.
- · To help conserve supplies, use cloth or homemade masks when visiting us, performing essential work or errands while also observing social distancing guidelines.



Perform Hand Hygiene when entering and leaving the facility, the patient's room, or your home.



Wash hands with soap and water or clean hands with alcoholbased sanitizer



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Modified from CDC.gov



Source Control: Face Coverings and Masks



Reduces Droplet Dispersal Variable Filtration Depending on Material NOT PPE



Reduces Droplet Dispersal "Standard" Filtration PPE: Needed for direct patient care ASTM 1: Minimum for Surgical Care



Resources

Poster Available at:

https://www.jointcommission.org/-

/media/tjc/documents/covid1 9/universal-maskingstatement-04232020.pdf



Do's and Don'ts

Do's and Don'ts for Health Care Staff Wearing Facemasks During the COVID-19 Pandemic*

Do's

- √ Wear a cloth or medical facemask whenever you are within 6 feet of other people.
- ✓ Wear a medical facemask as personal protective equipment when providing direct care.
- Change your facemask if it is damaged (e.g., torn, wet or visibly soiled) or becomes hard to breathe through.
- Remove ear loop facemasks by handling only the ear loops and tie face masks by handling only the ties.
- ✓ Perform hand hygiene before and after removing a facemask.
- √ Practice extended use of disposable medical facemasks (e.g., do not remove mask except to discard) rather than reuse (e.g., remove and store mask between uses) if supplies are limited.
- ✓ In crisis situations, if a facemask must be re-used, store and handle in a manner that prevents contamination of the inside of the mask and wash hands after re-applying.

Don'ts

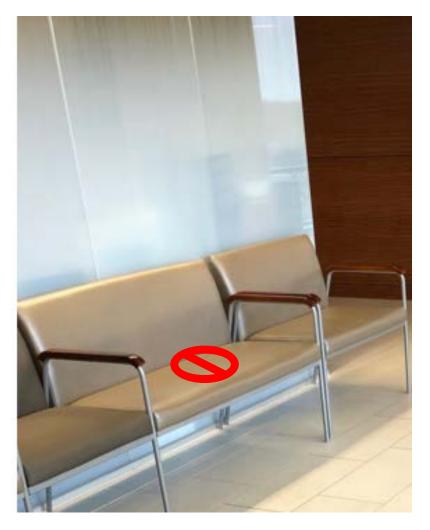
- Wear a cloth facemask as personal protective equipment (e.g., when providing direct care to a patient).
- Remove your mask unless you are at least 6 feet away from other people, this includes co-workers, visitors and patients.
- Touch the front of a used mask during use or removal.
- Wear a facemask that is soiled, damaged or hard to breathe through.
- Wear a medical facemask for aerosol generating procedures (use an N95, Elastomeric, or Powered Air Purifying Respirator for these procedures).
- Reuse medical facemasks unless the organization has reached crisis situation and has contacted the local health authority and no alternative or additional supplies can be anticipated.



^{*} Facemasks are just one element that should be used in conjunction with other measures, such as social distancing, to protect people from exposure to COVID-19. When facemasks are worn as PPE they must be used with other PPE as determined by the clinical situation and facility policies and procedures.

Social Distancing







Adequate Supply of PPE Available

Joint Statement: Roadmap*

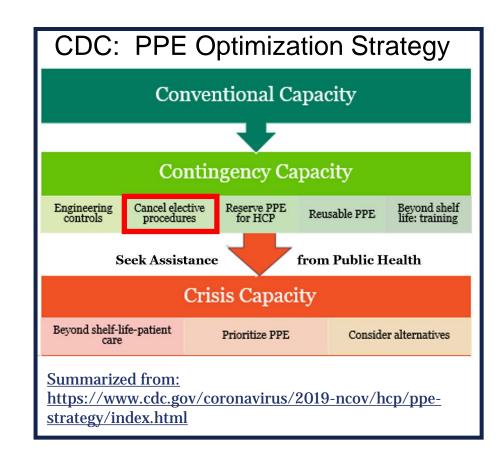
Principle:

Adequate PPE

Policies:

- Adequacy of PPE
- Training and use: follow non-crisis standards
- Conservation

 $[\]hbox{* Available at $\underline{https://www.facs.org/covid-19/clinical-guidance/roadmap-elective-surgery}}$





Estimate PPE Use

- The rate of use depends on multiple factors including
 - Number of patients
 - Number of staff
 - Types of procedures
 - Processes in place to conserve PPE
 - Availability

PPE Burn Rate Calculator

Personal Protective Equipment Burn Rate

Calculator [3 sheets]

This spreadsheet can help healthcare facilities plan and optimize the use of personal protective equipment (PPE) for response to coronavirus disease 2019 (COVID-19). Get the Instructions

https://www.cdc.gov/coronavirus/2019-ncov/hcp/infection-control.html



Routine Patient Care

- Practice source control
- Follow standard and transmission based precautions
 - Switch to medical facemask if PPE is indicated
 - Type of gown is dependent on type of exposure anticipated
 - Eye protection should have solid sides

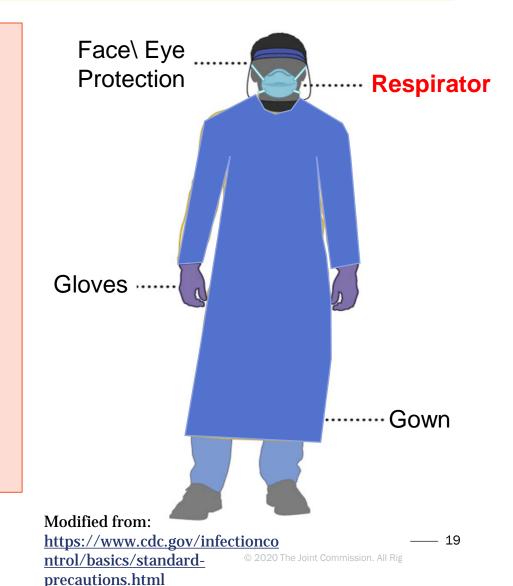




Aerosol Generating Procedures

Examples of aerosolgenerating procedures:

- Intubation
- Extubation
- Nebulizer treatments
- Cardiopulmonary resuscitation
 - Manual ventilation
 - Open suctioning
- Bronchoscopy





Filtering Facepiece Respirators

Confirm safe to use in area of sterile environment



N95 (or higher) mask

Disposable Filters airborne particles Requires fit testing



Elastomeric Filtering Facepiece

Reusable device Requires fit testing May be disinfected



Powered Air-Purifying Respirator (PAPR)

Reusable device **Battery** operated Half or full facepiece



Resource: https://www.cdc.gov/coronavirus/2019-ncov/hcp/elastomeric-respirators-

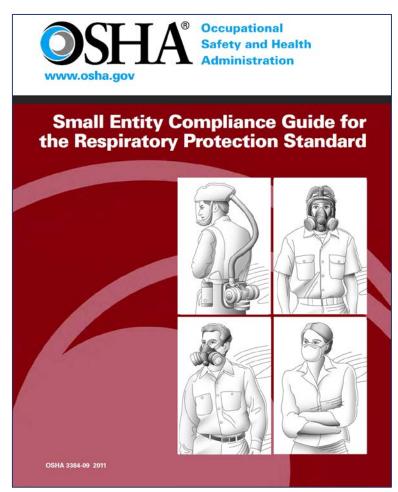
strategy/index.html

https://www.cdc.gov/coronavirus/2019-ncov/hcp/ppe-strategy/powered-air-purifying-respiratorsstrategy.html

Respiratory Protection Program

OSHA Requirement

- Depends on type of respirator
- May include
 - Medical Evaluation
 - Fit Testing
 - Fit Check



Resource Link:

https://www.osha.gov/Publications/3384small_____21 entity-for-respiratory-protection_standard_All Rights Reserved.rev.pdf



PPE Checklist

Screening Area Patient Staff Reception Area Patient Staff Preop Hold Patient Staff & Providers OR Patient Perioperative Team Present for AGP PACU Patient Staff		Face Covering /Mask*	Gown	Gloves	Eye/Face Protection
Staff Reception Area Patient Staff Preop Hold Patient Staff & Providers OR Patient Perioperative Team Present for AGP PACU Patient	Screening Area				
Reception Area Patient Staff Preop Hold Patient Staff & Providers OR Patient Perioperative Team Present for AGP PACU Patient					
Patient Staff Preop Hold Patient Staff & Providers OR Patient Perioperative Team Present for AGP PACU Patient	Staff				
Patient Staff Preop Hold Patient Staff & Providers OR Patient Perioperative Team Present for AGP PACU Patient					
Staff Preop Hold Patient Staff & Providers OR Patient Perioperative Team Present for AGP PACU Patient					
Preop Hold Patient Staff & Providers OR Patient Perioperative Team Present for AGP PACU Patient Patient					
Patient Staff & Providers OR Patient Perioperative Team Present for AGP PACU Patient	Staff				
Patient Staff & Providers OR Patient Perioperative Team Present for AGP PACU Patient					
Staff & Providers OR Patient Perioperative Team Present for AGP PACU Patient					
OR Patient Perioperative Team Present for AGP PACU Patient Patient					
Patient Perioperative Team Present for AGP PACU Patient	Staff & Providers				
Patient Perioperative Team Present for AGP PACU Patient					
Perioperative Team Present for AGP PACU Patient	OR				
Present for AGP PACU Patient					
PACU Patient	Perioperative Team				
Patient	Present for AGP				
Patient					
	PACU				
Staff					
	Staff				

^{*1 –} Face Covering; 2 – Medical Mask; 3 – Surgical Mask; 4 – Respirator

AGP = Aerosol generating procedure

(Vendor and escort screening at point of entry and appropriate face covering/PPE per facility protocol) ____ 22

Sample PPE Checklist

	Face Covering /Mask*	Gown	Gloves	Eye/Face Protection	
Screening Area					
Patient	1				
Staff	1/2		X		
Reception Area					
Patient	1				
Staff	1				
Preop Hold					
Patient	1				
Staff & Providers	1	Per standard precautions			
OR					
Patient	1				
Perioperative Team	3	Per operative attire policy			
Present for AGP	4	X	X	X	
PACU					
Patient	1				
Staff	1/2/3/4	Per standard precautions /AGP			

^{*1 –} Face Covering; 2 – Medical Mask; 3 – Surgical Mask; 4 – Respirator

AGP = Aerosol generating procedure

(Vendor and escort screening at point of entry and appropriate face covering/PPE per facility protocol)



Sample PPE Checklist

Screening Area Patient Staff Reception Area Patient Staff Preop Hold Patient Staff & Providers OR Patient Perioper Present Patient	Face Covering	Gown	Glo	\frace ction
Screening Area	/Mask	1	orto	
Patient	1	C Y		
Staff	1/2	· ons		
		ation		
Reception Area		Tia .		
Patient	(91)			
Staff	110	M.		
at				
Preop Hold	ases			
Patient				
Staff & Providers		Per standard preca	utions	
11112121				
OR				
Patient	1			
Perioper	3	Per operative attire	policy	
Pres	4	X	X	X
PAC				
Pati	1		. ,	
Staff	1/2/3/4	Per standard preca	utions /AG	P

*1 – Face Covering; 2 – Medical Mask; 3 – Surgical Mask; 4 – Respirator

AGP = Aerosol generating procedure

(Vendor and escort screening at point of entry and appropriate face covering/PPE per facility protocol)

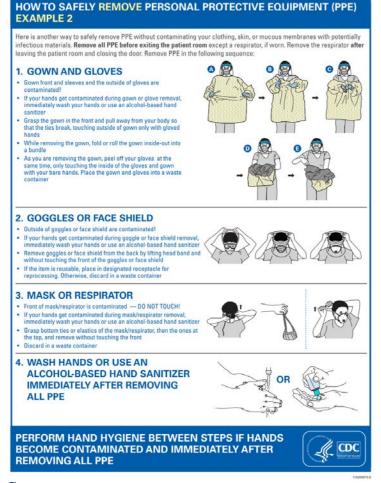


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Training and Competency of Staff

- Lots of resources
 - Joint Commission site
 - Videos
 - YouTube
 - Posters

EVERYONE needs the same message





https://www.cdc.gov/hai/pdfs/ppe/ppe-sequence.pdf



Disinfection of Hard Surfaces

- EPA-registered, hospital or healthcare disinfectant
- If not available, consider EPA-registered Institutional or residential disinfectants

(https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2)



Disinfection of Soft Surfaces

- Clean

- Remove visible contamination, if present
- Clean with cleaners for soft surfaces
- Disinfect
 - If able to launder, follow manufacturer's instructions warmest water setting for the item and dry completely
 - Products with the EPA-approved emerging viral pathogens claims
 (https://www.americanchemistry.com/Novel-Coronavirus-Fighting-Products-List.pdf) for porous surfaces



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Are You Ready To Resume Elective Cases?

Human Resources — Our #1 Priority

- Availability
- Readiness
- Commitment
- Outside stressors





Staff

- Face covering
- Screening for symptoms
- Illness
- Personal and family safety



Starting Point - Resuming Elective Cases

- State rules and local requirements
- Supplies
- Physical Plant
- Patients
- Testing, if required



Recommendations for Testing

- #1 follow state requirements
- If NO state requirements, consider CDC guidance
 - If regional presence is high: consider testing
 - If little or no regional presence
 - Proceed if no symptoms
 - Delay if symptoms



Patients with Positive Test

- #1 follow local health authority requirements
- If no local health authority requirement consider CDC recommendation
 - Delay elective procedure until:
 - two negative results ≥ 24 hrs apart

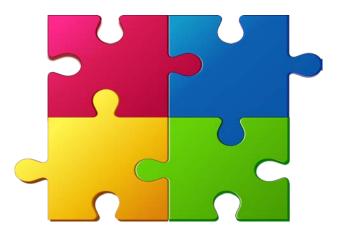
OR

 at least 72 hours since symptom resolution and at least 7 days since symptoms first appeared



Additional Considerations

- Recommendations and guidance
- Prevalence of community COVID-19
- Priority cases
- Resources/skills match case selection





Consideration for Case Selection

- Prioritize cases
 - Backlog
- High risk procedures
 - Aerosol generating procedures
 - Proximity to airway
- Patient health criteria selection



Ambulatory Surgery Centers

Lower Risk of AGP

- Cardiac/vascular intervention labs*
- Eye surgery centers*
- Radiology suites
- Telehealth organizations
- Pain clinics

Higher Risk of AGP

- Endoscopy centers
- ENT centers
- Dental surgery centers



^{*}This population may have higher risk factors based on demographics

Allocation of Time and Resource

- Time between cases
- Modified hours
- Staff needs time to recover and prepare
- Adjust operating pace



Ramping Up

- Test processes
- Rehearsal and dry-run
- Document processes & lessons learned
- Implement changes
- Reassess once open



Identify Your Weakest Link

- Do your staff know how COVID-19 is transmitted and how to prevent spread?
- Do you have the supplies and equipment to protect your staff and patients?
- Can you provide supplies and equipment needed to care for the patient in all phases of care?
- Are your staff and patients committed to decreasing the risk of transmission?
- Are you depending on a test that has false negatives?



ASC Specific Prep

Safety When Masking Not Possible

- Meals
 - Examples
 - Grab and go
 - Pre-packaged meals
 - Staggered breaks and lunches
- Changing masks
 - Staggering times
 - Distancing



Contractors

- Educate on new procedures
- Report to designated area
- Screening
- Face covering vs PPE



Support After Discharge







Medical equipment

Physical therapy

Home visits

Limit Exposure: Patient Flow

- Symptomatic vs asymptomatic patients
- Source control: Limit droplet dispersal (e.g. homemade mask)
- Care of suspected COVID patient

Clean and **Disinfect** After Visit Upon Arrival **Before Arrival**



- Virtual triage or visits
- Plan for ill patients



Ambulatory Surgery Phases

Scheduling Intake Pre-op Intra-op Post-op Discharge Follow-up



Scheduling

Patient Assessment/Education

- Patient questionnaire
- Update instructions
 - Face covering
 - Notify of illness

Use of Cloth Face Coverings to Help Slow the Spread of COVID-19

How to Wear Cloth Face Coverings Cloth face coverings should—

- · fit snugly but comfortably against the side of the face
- · be secured with ties or ear loops
- · include multiple layers of fabric
- · allow for breathing without restriction
- be able to be laundered and machine dried without damage or change to shape

CDC on Homemade Cloth Face Coverings

CDC recommends wearing cloth face coverings in public settings where other social distancing measures are difficult to maintain (e.g., grocery stores and pharmacies), **especially** in areas of significant community-based transmission.

CDC also advises the use of simple cloth face coverings to slow the spread of the virus and help people who may have the virus and do not know it from transmitting it to others. Cloth face coverings fashioned from household items or made at home from common materials at low cost can be used as an additional, voluntary public health measure.

Cloth face coverings should not be placed on young children under age 2, anyone who has trouble breathing, or is unconscious, incapacitated or otherwise unable to remove the cloth face covering without assistance.

The cloth face coverings recommended are not surgical masks or N-95 respirators. Those are critical supplies that must continue to be reserved for healthcare workers and other medical first responders, as recommended by current COC guidance.

Should cloth face coverings be washed or otherwise cleaned regularly? How regularly?

Yes. They should be routinely washed depending on the frequency





https://www.cdc.gov/coronavirus/2019-ncov/downloads/DIY-cloth-face-covering-instructions.pdf



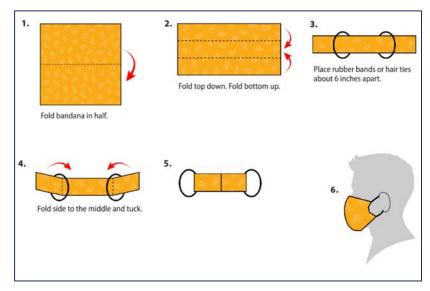
Time and Resources

- New method for first case priority
- Timing facilitates physical distancing
- Adequate cleaning and disinfecting ORs
- Safe number of cases-patient-staff ratio



Calls

- Consider calling all scheduled patients
- Virtual phone triage
 - Initial patient assessment
 - Education
 - Resources
- Administrative options



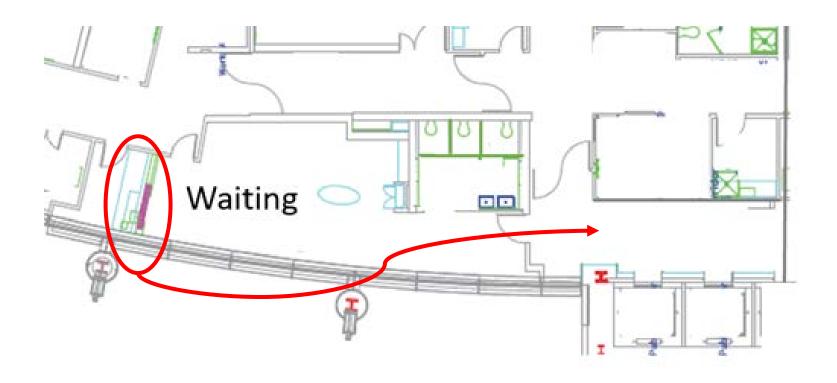
Resource: https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/diy-cloth-face-coverings.html



Intake



Initial Screening





Arrival

- Patient: Face covering and hand hygiene
- Screening
 - Temperature/symptoms
 - Current/recent illness
 - Recent exposure
 - Social distancing
- Determine PPE for staff



Perform Hand Hygiene when entering and leaving the facility, the patient's room,

or your home.

Wash hands with soap and water or clean hands with alcoholbased sanitizer

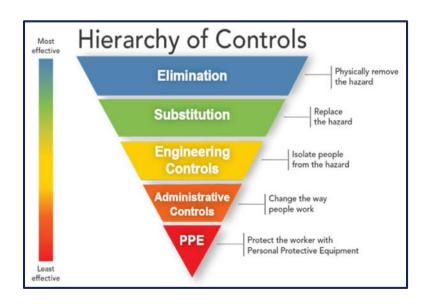


Modified from CDC.gov



Check-in

- Face covering
- Elimination consider online payment
- Engineering control physical barrier
- Practicalities of no touch environment



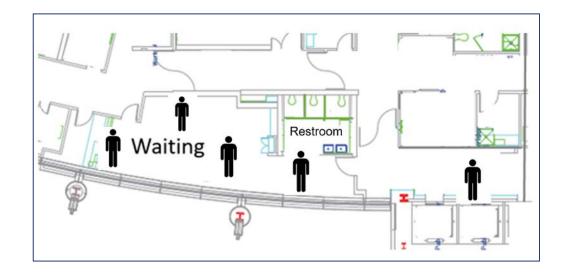
https://www.cdc.gov/coronavirus/2019-ncov/hcp/infection-control-recommendations.html)



Escorts

Consider

- Limits
- Driving distance
- Communication





Waiting Area

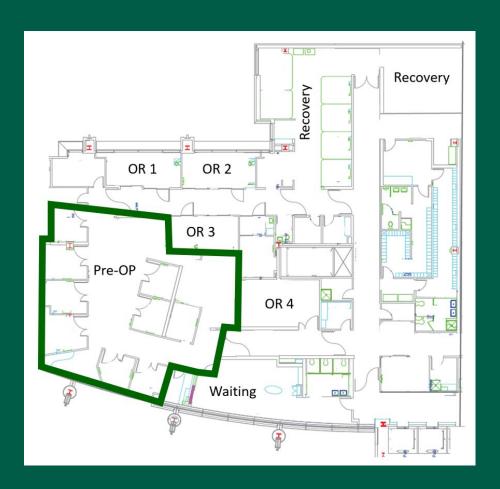
- Remove remote controls, magazines, toys, drinks
- Monitor high-touch areas
- Bathroom accommodation
- Environmental cleaning





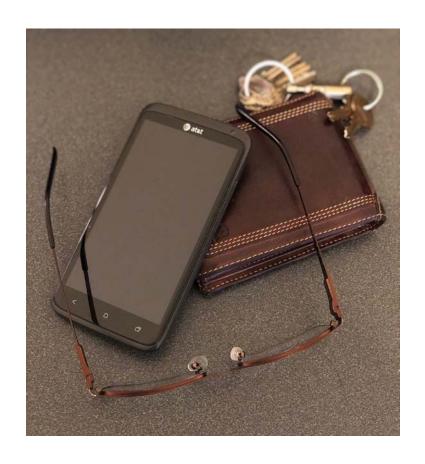


Preop



Preop Holding Area Processes

- Changing clothes
- Securing patient valuables





Preop Holding Area Processes

- PPE expectations
- Space, flow and distancing
- Supply management
- Airway assessment

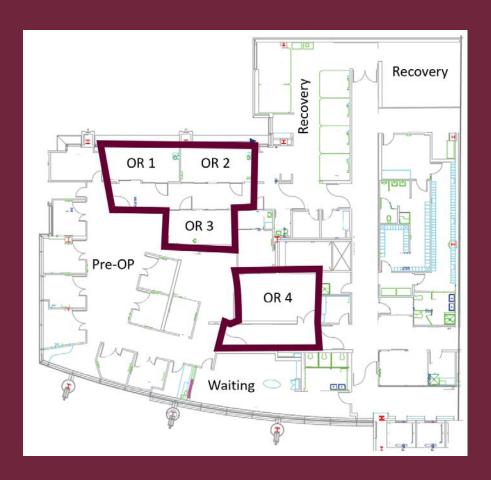
https://www.cdc.gov/coronavirus/201 9-ncov/hcp/infection-controlrecommendations.html?CDC AA ref Val=https%3A%2F%2Fwww.cdc.gov% 2Fcoronavirus%2F2019ncov%2Finfection-control%2Fcontrolrecommendations.html#Patient_Place ment







Intra-op



Types of Procedures

Lower Risk of AGP

- Cardiac/vascular intervention labs*
- Eye surgery centers*
- Radiology suites
- Telehealth organizations
- Pain clinics

Higher Risk of AGP

- Endoscopy centers
- ENT centers
- Dental surgery centers



^{*}This population may have higher risk factors based on demographics

Aerosol Generating Procedures

Things to consider:

- Limit personnel
- Ventilation
- Distancing
- Equipment
- -PPE



Source: Intubation of suspected COVID-19 patients https://www.youtube.com/watch?v=iIGAmdyZr4Y

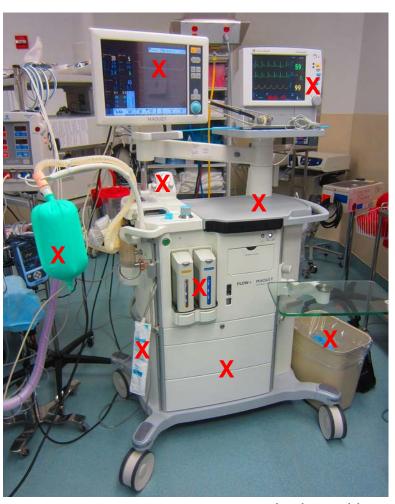
Anesthesia Risk Points

- Clean/dirty workflow
- Hand hygiene
- Environmental cleaning

Resources: https://www.apsf.org/novel-coronavirus-covid-19-resource-center/

https://anesthesiology.pubs.asahq.org/article.aspx?articleid=2763452





This Photo by Unknown Author is licensed under CC BY-SA

x – anesthesia machine with high touch points

Examples of Engineering Controls

Barrier



Source: Twitter: Ed Mariano MD, Stanford Medical

Mask over tube

Source-Extubation of patients with COVID-19 BJA: British Journal of Anaesthesia. 2020 April 9









Intubation Box



Source: -Taipei Times-Virus Outbreak: Local doctor's invention adopted in Philippines. March 25, 2020 Smoke evacuator, fluid reservoir and sterile suction tip







Source: Source Smoke Evacuator Picture-Vol.36, No5 May 2020, OR Manager, Page 19

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Surgical Room Turnover

1. Airborne Contaminant Removal

Table B.1. Air changes/hour (ACH) and time required for airborne-contaminant removal by efficiency *

ACH § ¶	Time (mins.) required for removal 99% efficiency	Time (mins.) required for removal 99.9% efficiency
2	138	207
4	69	104
6+	46	69
8	35	52
10 ⁺	28	41
12+	23	35
15⁺	18	28
20	14	21
50	6	8

https://www.cdc.gov/infectioncontrol/guidelines/environmental/appendix/air.html#tableb1

- AGP procedure performed
 - Limit entry
 - Time based on air exchanges to clear aerosols



https://www.cdc.gov/coronavirus/2019ncov/hcp/infection-control-faq.html What PPE should be worn by environmental services (EVS) personnel who clean and disinfect rooms of hospitalized patients with COVID-19?



Postop

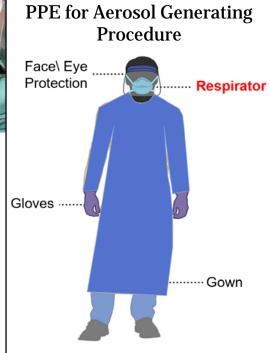


Recovery

- Aerosol generating examples
 - Oral\nasal airways
 - Suctioning
 - Pulmonary toileting
 - Nebulizer treatment



Photo: COURTESY OF KELLI **DUNHAM-Guest Writer on HUFFPOST March 31, 2020**



Modified from:

https://www.cdc.gov/infectionco

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ntrol/basics/standard-2020 The Joint Commission. All Rights Reserved. precautions.html



Standard Protocols

- Source control
- Distancing
- Curtains and doors
- Escort restrictions
- PPE
- Environmental cleaning



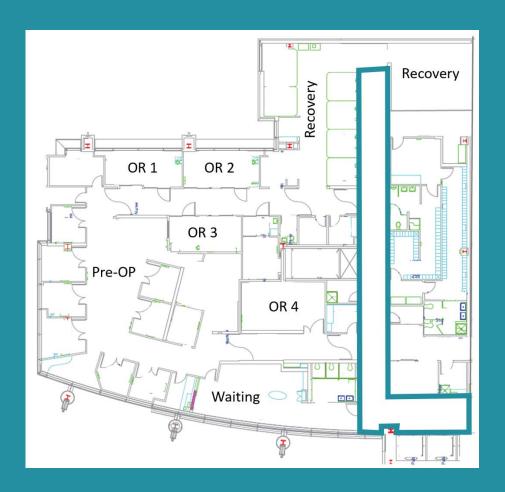








Discharge



Discharge Planning

Traffic pattern: leaving building

Transportation back to residence

- Car
- Bus/Ride Share/Taxi

Follow up:

- Follow-up phone call
- Screen for possible COVID-19



Follow Up

If Case Identified in Patient or Staff Member

- Notify public health immediately
- Review measures to prevent transmission
- Identify potential exposure points
 - Patients not masked
 - Staff not masked
 - Aerosol generating procedures

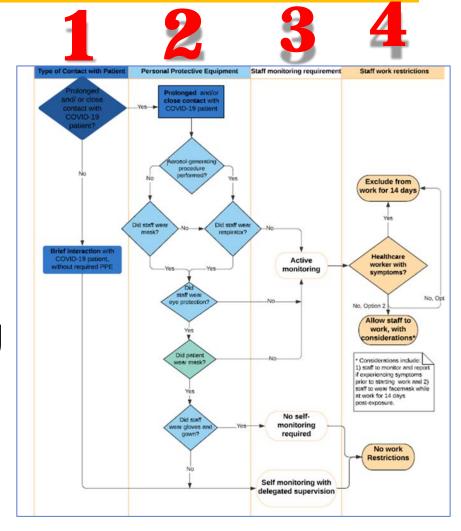


Exposure Monitoring and Return to Work

- 1- Level of exposure
- 2- PPE used



- 3-Symptom monitoring
- 4- Work restrictions





Physical Environment

Inspection, Testing and Maintenance (ITM)

- Inspection, testing, and maintenance
 - Up to date on fire alarm and sprinkler system testing and inspection?
 - Ventilation filtration
 - Confirm manufacturer recommendation is followed
 - rH and temperature
 - Air exchange rates



Reopening Tasks

Although not exhaustive, recommend evaluating the following issues prior to re-opening

- Reestablish contracts/agreements: cleaning, shredding, etc.
- Sterilizers maintenance and quality controls
- Fire extinguishers inspection



Reopening Tasks

- Refrigerated medications maintained
- Flush all water fixtures*
- Perform maintenance on ice machines*
- Ensure medical equipment is functional
 - Defibrillator
 - Anesthesia machines
- Notify insurance carrier
- Notify local authority having jurisdiction



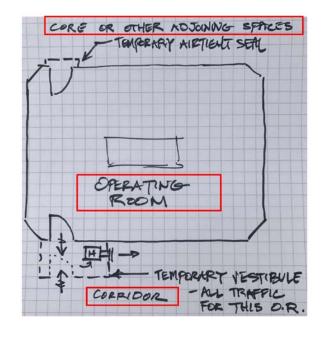
Fire Drills

- Quarterly
 - What if the building has been closed?
 - Review protocol for staff
 - What if the building is now a hospital?



Aerosol Generating Procedures

- Standard OR Procedures
 - Limit personnel to those needed
 - Keep door closed
- Not Required
 - Create temporary ante-room (ASHRAE)
 - Use of point source control
 - Rebalance room (not recommended by ASHE**)



Picture Source: *ASHRAE COVID-19 Guidance

http://tc0906.ashraetcs.org/documents/COVI D%2019%20%20GUIDANCE%20-%20ASHRAE%20Revised3-25-2020.pdf Accessed April 6, 2020



**ASHE: https://www.ashe.org/covid-19-frequently-asked-questions?utm_source=General%20Announcements&utm_medium=email&utm_campaign=4%2E10%2E20%20COVID%2D19%20Resource%20Roundup

Staff Health and Wellbeing

Mental Well Being



- Communication
 - Updates/process changes
 - Share good news
 - Provide staff way to voice concerns
 - Limit non essential email, alerts
- Encourage self-care
 - Meditation
 - Extracurricular activities



Provide Reassurance and Reducing Stigma

SHARE FACTS ABOUT COVID-19

Know the facts about coronavirus disease 2019 (COVID-19) and help stop the spread of rumors.



Diseases can make anyone sick regardless of their race or ethnicity.

Fear and anxiety about COVID-19 can cause people to avoid or reject others even though they are not at risk for spreading the virus.

ACT 2

For most people, the immediate risk of becoming seriously ill from the virus that causes COVID-19 is thought to be low.

Older adults and people of any age who have serious underlying medical conditions may be at higher risk for more serious complications from COVID-19.

FACT 3 Someone who has completed quarantine or has been released from isolation does not pose a risk of infection to other people.

For up-to-date information, visit CDC's coronavirus disease 2019 web page.





There are simple things you can do to help keep yourself and others healthy.

- Wash your hands often with soap and water for at least 20 seconds, especially after blowing your nose, coughing, or sneezing; going to the bathroom; and before eating or preparing food.
- Avoid touching your eyes, nose, and mouth with unwashed hands.
- · Stay home when you are sick.
- Cover your cough or sneeze with a tissue, then throw the tissue in the trash.

FACT 5 You can help stop COVID-19 by knowing the signs and symptoms:

- Fever
- Cough
- · Shortness of breath

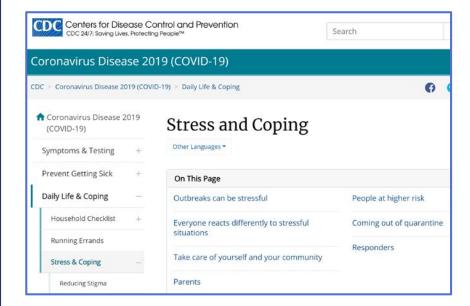
Seek medical advice if you

Develop symptoms

AND

 Have been in close contact with a person known to have COVID-19 or if you live in or have recently been in an area with ongoing spread of COVID-19.

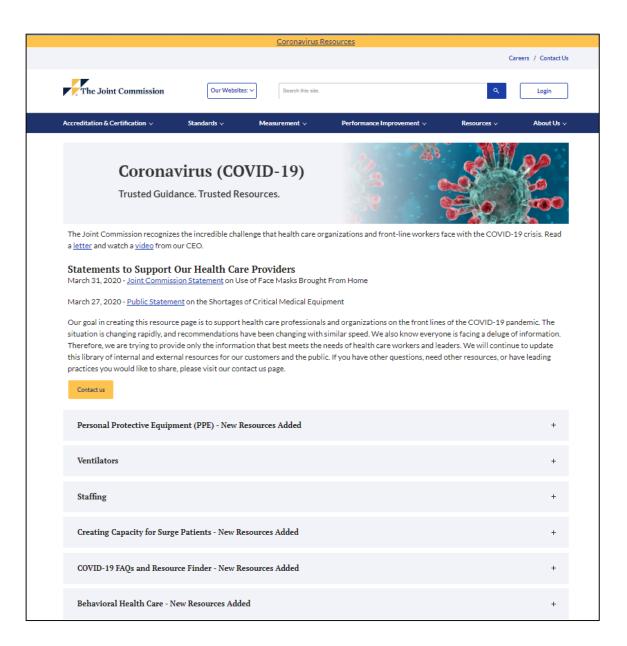
cdc.gov/COVID-19



https://www.cdc.gov/coronavirus/20 19-ncov/symptoms-testing/reducingstigma.html



Resources



https://www.joi ntcommission.o rg/covid-19/





Questions?

Use the Standards Interpretation Site

https://web.jointcommission.org/sigsubmission/sigquestionform.aspx

