

Guidance for Use of Personal Protective Equipment PPE for High Risk Aerosol Generating Procedures

The following table provides guidance for determining the appropriate PPE and room criteria required for Aerosol Transmissible Diseases (ATDs) when performing High Risk Aerosol Generating Procedures (HRAGP). A PAPR is required for high hazard procedures for patients requiring airborne *precautions*¹.

		Airborne transmitted infections ² (e.g. TB, measles, varicella)		COVID-19 suspect (PUI) or confirmed positive COVID-19 (novel respiratory isolation OR respiratory illness isolation)		Droplet transmitted infections ² (e.g. influenza, adenovirus) excluding RSV, rhinovirus, parainfluenza, human metapneumovirus		No Concern for Aerosol Transmission ⁴
		PPE	Room criteria	PPE ³	Room criteria ³	PPE	Room criteria	PPE
Type of Procedure	High Risk Aerosol Generating Procedure	PAPR with goggles or face shield, gown, gloves	Airborne Isolation room	PAPR or N95 with goggles or face shield, gown, gloves	Airborne Isolation room for ongoing or continuous HRAGP ⁵	PAPR or N95 with goggles or face shield, gown, gloves	Private patient room preferred	Standard Precautions and refer to isolation table as applicable
	Not aerosol generating procedure	PAPR or N95	Airborne Isolation room	Surgical mask with goggles or face shield, gown, gloves	Private patient room with door closed preferred	Surgical mask with goggles or face shield, gown, gloves	Private patient room preferred	

High Risk Aerosol Generating Procedures (HRAGP)			Clinical Support during HRAGP when an N95 or PAPR are needed
Nebulized Medication	Intubation	PFTs	Support personnel that are assisting and/or observing beyond 6 ft from the high risk aerosol generating procedure have an option to wear a PAPR or a fit tested N-95 respirator in addition to any PPE already required. <u>Do I need to be fit tested to wear PAPR equipment?</u> No, but training is required. Call EHS at 415-476-1300 for information. <u>How to obtain a PAPR unit:</u> Contact Materiel Services at 415-353-1837 (Parnassus) 885-7255 (MZ) or 476-1116 for (MB) to obtain a PAPR or an airborne precautions cart.
Non-Invasive Ventilation BiPAP/CPAP	Extubation	Open Suction	
High Frequency Ventilation	Bronchoscopy/BAL	Autopsy	
Chest Physiotherapy	Laryngoscopy	CPR	
Manual Ventilation	Tracheostomy		
Evidence not conclusive for High Flow Nasal Cannula			
Nasopharyngeal specimen collection: not aerosol generating, but for COVID-19 wear PAPR or N-95 and face protection, gloves and gown			

There are exceptions to the above guidance for required use of PAPR. In the following exemptions an N-95 may be worn in place of a PAPR:

A) Emergent Patient Care that does not allow sufficient time to put on a PAPR, B) PAPR equipment interferes with the medical devices necessary to complete the required procedures or C) Call (415-885-3538) to report other potential exemptions for review and consideration.

- 1) *Per Cal-OSHA regulation Title 8, Section 5199, (g) (3) (B)*, <http://www.dir.ca.gov/Title8/5199.html>
- 2) <https://www.dir.ca.gov/title8/5199a.html> and <https://infectioncontrol.ucsfmedicalcenter.org/isolation-table>
- 3) **Novel Respiratory Isolation Precautions** (Airborne Isolation with eye protection, gloves and gown in Negative Pressure Room) must be in place for patients with frequently ongoing or continuous HRAGP, **Respiratory Isolation Precautions** (Surgical mask with eye protection, gloves and gown) are in place for patients with discrete HRAGP or no HRAGP
- 4) Other Droplet Transmitted infections not outlined by ATD Standards (e.g. RSV, rhinovirus, parainfluenza, human metapneumovirus), negative respiratory viral evaluation, no concern for respiratory infection
- 5) When HRAGP performed in room without negative pressure for PUI or positive COVID-19, place signage indicating that Aerosol Generating Procedure is in progress and N-95 or PAPR required for one hour
Please contact the Medical Center Safety Office at MedicalCenterSafety@ucsf.edu or 415-885-3538 with any questions or concerns.

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