

## Covid 19 Scenario: Patient's Risk grading, PPE Guidelines & Protocols for Aerosol handling in ORs, Cath labs, Imaging suites & ICUs for Health Care Workers

Dept of Anaesthesiology, Sree Chitra Tirunal Institute for Medical Sciences & Technology, Trivandrum, Dept of Science & Technology, Govt of India

	<b>Exposure</b> (For Q 1-4, add family members also)	Points		Risk Category	Precautions	PPE	Aerosol generating Non-aerosol generating
1	Any H/o travel within the prior 14 days to a location where there is local or community transmission of COVID-19?	6	1	Aerosol/ Non-aerosol generating procedures in Low	Hand hygiene	Cap Triple layer mask Gloves	<ul> <li>Bag mask ventilation, Intubation, Extubation</li> <li>Ryle's tube insertion</li> <li>Tracheostomy, NIV, Chest</li> <li>Arterial line</li> <li>insertion</li> </ul>
2	Any H/o close contact with a confirmed or suspected case of COVID-19 in the prior 14 days, at home or at work including in health care settings?	6	2	Aerosol generating procedures in Intermediate	Droplet & contact precautions	Consider goggles Full PPE	<ul> <li>physiotherapy, Suctioning</li> <li>Bronchoscopy, Coughing</li> <li>Vomiting/retching</li> <li>Prone positioning</li> <li>Regional nerve</li> </ul>
3	Is he/she living in the same household or flat as of a person with symptomatic laboratory-confirmed COVID-19 infection?	6	3	Risk  Aerosol generating	Droplet & contact	Full PPE	<ul> <li>TEE, Transfer of patients</li> <li>Sternotomy, Bone drilling</li> <li>Craniotomy</li> <li>CUSA, Nebulisation</li> <li>blocks</li> <li>Lumbar puncture</li> <li>Muscle Biopsy</li> <li>Cath lab Percut.</li> </ul>
4	Is there any H/o traveling in close proximity with (that is, within 1 m) a COVID-19 patient in any mode of travel?	6		procedures in <b>High Risk</b> Aerosol generating	Airborne, Droplet &		<ul> <li>Cautery dissection</li> <li>Laparoscopic/Endoscopic</li> <li>procedures</li> <li>Interventions</li> <li>CT/ MRI scans</li> <li>TTE</li> </ul>
5	Is there any H/o severe acute respiratory illness in the absence of an alternative diagnosis that fully	6	4	procedures in COVID-19 patient	contact precautions	Full PPE + Face Shield	<ul><li>Measures to prevent aerosol dispersion (Covid</li><li>19 &amp; High Risk cases)</li><li>The OR positive pressure ventilation system &amp; AC</li></ul>
6	explains the clinical presentation?  Critically ill patient with unexplained pneumonia or respiratory failure	6	5	Routine care /Non aerosol generating procedures of COVID-19 patient	Droplet & contact precautions	Full PPE	<ul> <li>to be turned off until 20 min post last aerosol generating procedure</li> <li>Disposable plastic sheets over monitors, ventilators, anesthesia machine etc.</li> </ul>
7	Health care worker managing a patient with acute respiratory symptom or fever in the last 14 days	6	Routine care /Non-aerosol 6 generating procedures in High Risk	Droplet and contact	Cap N95 mask	<ul> <li>If patient requires O<sub>2</sub>, the oxygen mask is applied over the surgical mask or N95 mask</li> <li>Clean room 20 minutes after tracheal intubation</li> </ul>	
8	Are you a health care worker/public health officials/social leader?	4		<b>.</b>	precautions	Gloves Goggles Cap	<ul> <li>Clean room 20 minutes after tracheal intubation (or last aerosol generating procedure)</li> <li>During transfer, the team should wear a new proper PPE outside the operating room</li> <li>If the patient is transferred with ETT, a single</li> </ul>
9	H/o fever / LRI / Diarrhoea in last 14 days	4		Routine care /Non-aerosol	Hand hygiene	Triple layer mask	
	Critically ill patient(Sepsis, MOD, Life threat malignancy etc) Any underlying chronic health conditions:HT, DM,IHD COPD, Heart failure, Age >50 years,C/c Kidney;Liver	2	7 generating procedures in Intermediate Risk	& contact precautions	Gloves Consider goggles	patient-use Ambu bag with HME filter attached should be used  Limit the number of personnel during the conduct	
	diseases, immunocompromising conditions?  Patient RISK: High- 6 or more; Intermediate-2-4:	Low-0	Ref: Covid 19 Guidelines & Updates: American and Australian Society of Anaesthetists Guidelines of MOH FW, Gol Approved by Covid Cell SCTIMST 8-4-2020				<ul><li>of aerosol generating procedures</li><li>Prefer regional anaesthesia whenever possible</li></ul>