

## 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 (Version 2)

**Screening Criteria for Exposure** Aerosol generating procedures Non-aerosol **Points** (For Q 1-4, add family members also) Bag mask ventilation, generating **Risk Category Precautions** PPE Intubation, Extubation procedures Cap Ryle's tube insertion Central line insertion Any H/o travel within the prior 14 days to a location where there Aerosol / Non-aerosol generating Triple layer / N95 Tracheostomy, NIV is local or community transmission of COVID-19? 6 Arterial line insertion Hand hygiene procedures in Low risk / Nonmask, Gloves Chest physiotherapy, Bladder **COVID-19** patients Consider goggles Suctioning catheterisation Any H/o close contact with a confirmed or suspected case of Bronchoscopy, Coughing Regional nerve Cap, 2 COVID-19 in the prior 14 days, at home or at work including in Droplet & contact Vomiting/retching blocks 6 Aerosol generating procedures in N95 mask health care settings? precautions Prone positioning Intermediate Risk Gloves, Goggles Central Neuraxial TEE, Transfer of patients Impermeable Gown blocks Is he/she living in the same household or flat as of a person with Sternotomy, Bone drilling Lumbar puncture Cap, N95 mask symptomatic laboratory-confirmed COVID-19 infection? Craniotomy 6 Muscle Biopsy Aerosol generating procedures in Gloves, Goggles Droplet & contact CUSA. Nebulisation · Cath lab Percut. **High Risk** Impermeable Gown precautions Cautery dissection Interventions or Full PPE Is there any H/o traveling in close proximity with (that is, within 1 Laparoscopic/Endoscopic CT Scan m) a COVID-19 patient in any mode of travel? 6 procedures MRI scan Airborne. Pleural cavity procedures TTE Full PPE + Face Aerosol generating procedures in Droplet & contact Is there any H/o severe acute respiratory illness in the absence **COVID-19** patient Shield precautions Measures to prevent aerosol dispersion (Covid 19 & of an alternative diagnosis that fully explains the clinical High Risk cases) presentation? • The OR positive pressure ventilation system & AC to be **Droplet & contact** Routine care / Non aerosol turned off until 20 min post last aerosol generating Critically ill patient with unexplained pneumonia or respiratory failure / Are you Covid tested +ve in last 2 months precautions Full PPE generating procedures of COVID-19 6 procedure patient Disposable plastic sheets over monitors, ventilators, anesthesia machine etc. Health care worker managing a patient with acute respiratory Droplet and Cap Routine care / Non-aerosol • If patient requires O<sub>2</sub>, the oxygen mask is applied over symptom or fever in the last 14 days 6 N95 mask contact generating procedures in High the surgical mask or N95 mask Gloves precautions Risk · Clean room 20 minutes after tracheal intubation (or last Goggles Are you a health care worker/public health officials/social leader? aerosol generating procedure) Cap During transfer, the team should wear a new proper PPE H/o fever / URI / LRI / Diarrhoea in last 14 days Routine care / Non-aerosol Triple layer/ N95 Hand hygiene & outside the operating room generating procedures in mask. contact 10 Critically ill patient(Sepsis, MOD, Life threat malignancy etc) If the patient is transferred with ETT, a single patient-**Intermediate Risk** precautions Gloves use Ambu bag with HME filter attached should be used Any underlying chronic health conditions: HT, DM,IHD COPD, Consider goggles · Limit the number of personnel during the conduct of 11 Heart failure, Age >50 years, C/c Kidney; Liver diseases, 2 aerosol generating procedures immunocompromising conditions? Ref: Covid 19 Guidelines & Updates: American and Australian Society of Anaesthetists Prefer regional anaesthesia whenever possible Guidelines of MOH FW, Gol Approved by Covid Cell SCTIMST 27-4-2020 Patient RISK: High- 6 or more; Intermediate-4: Low-2