# संचालनालय स्वास्थ्य सेवायें, मध्यप्रदेश

महत्वपूर्ण

क्रमांक / कोविड-19 नियंत्रण / आई.डी.एस.पी / 2020 / 7.5 4

भोपाल, दिनांक 05/06/2020

प्रति.

- 1. समस्त कलेक्टर, म.प्र।
- 2. समस्त मुख्य चिकित्सा एवं स्वास्थ्य अधिकारी, म.प्र।
- 3. समस्त सिविल सर्जन सह मुख्य अस्पताल अधीक्षक, म.प्र।
- 4. समस्त अधिष्ठाता, शासकीय चिकित्सा महाविद्यालय, म.प्र।
- 5. अध्यक्ष, नर्सिंग होम ऐसोसिएशन, म.प्र।
- 6. अध्यक्ष, आई.एम.ए., म.प्र।

विषय:— कोविड—19 परिदृश्य में कान,नाक,गला (ENT) रोगों के प्रबंधन हेतु सुरक्षित व्यवहारों के संबंध में। संदर्भ:— भारत सरकार द्वारा जारी Guidelines for Safe ENT Practice in COVID-19 दिनांक 03/06/2020

विषयांतर्गत लेख है कि कोविड—19 रोग का प्रसार प्रायः श्वसन तंत्र से उत्पन्न स्नाव अथवा खांसी या छीक के दौरान उत्पन्न बूंदों के संपर्क में आने से होता है। अतएव, कोविड—19 के संक्रमण की रोकथाम हेतु कान, नाक, गला विशेषज्ञों एवं स्टाफ नर्सेस, सहयोगी स्टाफ, रोगी तथा उनके परिजन हेतु निम्नानुसार निर्देश दिए जाते है:—

- 1. <u>ई.एन.टी. बाह्य रोगी सेवायें</u> यथासंभव रोगियों की अस्पताल / क्लीनिक में शारीरिक जांच करने के पूर्व दूरभाष पर परामर्श दिया जाये। जांच कक्ष में एक ही रोगी का परीक्षण किया जाये एवं आगामी रोगी को देखने के पूर्व अंतराल रखा जाये।
- 2. ई.एन.टी. ओ.पी.डी. में आने वाले समस्त रोगियों की थर्मल स्क्रीनिंग की जाये तथा श्वसन तंत्र के सम्भावित संक्रमण वाले रोगियों को ''कोविड—19 स्क्रीनिंग क्लीनिक / फीवर क्लीनिक'' में ही देखा जाये।
- 3. समस्त बाह्य रोगियों द्वारा मास्क, हाथों की स्वच्छता एवं सामाजिक दूरी का पालन किया जाये।
- 4. ई.एन.टी. ओ.पी.डी. हेतु चिन्हांकित कक्ष में क्रॉस—वेन्टीलेशन की समुचित व्यवस्था हो एवं विशेषज्ञों द्वारा रोगी के परीक्षण के दौरान एन 95 मास्क, गाउन, ग्लब्स, गॉगल्स/फेस शील्ड का उपयोग किया जाये।
- 5. अति आवश्यक न होने तक नियमित ओ.पी.डी. में Nasal Endoscopy नहीं की जाये। Endoscopy हेतु पृथक कक्ष का चिन्हांकन किया जाये जहाँ रोगी के परीक्षण के पूर्व चिकित्सक के द्वारा कवर—ऑल, गाउन, एन 95 मास्कं, ग्लब्स तथा गॉगल्स का उपयोग किया जाये। ग्लब्स के गन्दे हो जाने पर उन्हें तत्काल बदला जाये।
- 6. Biopsy तथा Endoscopy के दौरान Aerosol generation के खतरे को दृष्टिगत हुए समस्त चिकित्सक, नर्सिंग स्टाफ तथा तकनीकि असिस्टेन्ट के द्वारा पी.पी.ई किट का उपयोग किया जाये।
- 7. पी.पी.ई किट पहनने एवं उतारने हेतु पृथक स्थल का चयन किया जाये जिसका नियमित रूप से विसंक्रमण सुनिश्चित हो एवं उतारे हुए पी.पी.ई किट का निपटान बायोमेडिकल वेस्ट मेनेजमेन्ट प्रोटोकॉल अनुसार सुनिश्चित की जाये।
- 8. **ई.एन.टी. शल्य क्रिया एवं शल्योत्तर वॉर्ड हेतु निर्देश** ई.एन.टी. शल्य क्रिया से पूर्व रोगी की स्क्रीनिंग कोविड—19 के लक्षणों के लिए की जाये। कोविड—19 के लक्षण निम्नानुसार है:—

Most Common Symptoms	Less Common Symptoms	Serious Symptoms		
<ul><li>Fever</li><li>Dry cough</li><li>Tiredness</li></ul>	<ul> <li>Aches and pain</li> <li>Sore throat</li> <li>Diarrhoea</li> <li>Conjunctivitis</li> <li>Headache</li> <li>Loss of taste or smell</li> <li>Skin rash or discolouration of fingers or toes</li> </ul>	<ul> <li>Difficulty in breathing or shortness of breath</li> <li>Chest pain or pressure</li> <li>Loss of speech or movement</li> </ul>		

- 9. एक रोगी के साथ एक ही परिजन को अस्पताल / क्लीनिक में आने की अनुमति दी जाये तथा परिजनों द्वारा सर्वथा मास्क, हाथों की धुलाई तथा सामाजिक दूरी का पालन किया जाये। रोगी द्वारा न्यूनतम एवं आवश्यक व्यक्तिगत सामान ही अस्पताल में लाया जाये।
- 10. रोगी व परिजनों हेतु अस्पताल में हाथों की धुलाई एवं हाथों की स्वच्छता संबंधी संसाधन उपलब्ध रहे।
- 11. वॉर्ड के फर्नीचर, पलंग आदि की विषाणुमुक्ति सुनिश्चित की जाये। 2 रोगियों के पलंगों के मध्य न्यूनतम 2 मीटर की दूरी रखी जाये। यदि परिजन भी साथ में हों तो, यह दूरी और बढ़ाई जाये।
- 12. Tracheostomy वाले रोगियों में Aerosol generation के अधिक जोखिम को दृष्टिगत रखते हुए, इन रोगियों को अन्य रोगियों से पृथक रखा जाये।
- 13. Common Aerosol Generating Procedures in ENT and Head & Neck Surgery Ward.
  - Major bulk of Aerosol-Generating Patients in ENT are tracheostomized patients Encourage use of HME (heat and moisture exchanger0, T piece to prevent contamination of room
  - Tracheostomy tube suctioning/change
  - Nasogastric tube insertion
  - Procedures in Nasal and Oral cavity such as examination, cleaning, suctioning, nasal packing, foreign body removal etc.
- 14. ई.एन.टी. वॉर्ड तथा ई.एन.टी. ओ.टी में पी.पी.ई किट संबंधी निर्देश <u>परिशिष्ट-1</u> पर संलग्न है।
- 15. अस्पताल / क्लीनिक की नियमित सफाई हेतु ताजा बना हुआ 1% सोडियम हाईपोक्लोराईट का उपयोग किया जाये एवं घोल का सतहों से संपर्क समय 10 मिनट का हो। वॉर्ड के फर्श की सफाई डिर्टजेन्ट, पानी अथवा 1% सोडियम हाईपोक्लोराईट से सुनिश्चित की जाये।
- 16. नर्सिंग स्टेशन, परिक्षण कक्ष, ट्रेकियोस्टोमी रोगी का कक्ष को बार-बार साफ किया जाये।
- 17. मेटेलिक सतहों की सफाई हेतु 70% Isopropyl अथवा 70% Ethyl Alcohol का उपयोग किया जाये।
- 18. बी.पी उपकरण, थर्मोमीटर, एन्डोस्कोप की सफाई 70% Alcohol based rub/spirit swab से की जाये। एन्डोस्कोप का विसंक्रमण 2% Glutaraldehyde घोल में 20 मिनट तक डुबोकर सुनिश्चित की जाये।
- 19. परीक्षण उपकरणों के विसंक्रमण हेतु ऑटोक्लेव, केमिकल / फॉरमेल्डीहाईड भाप अथवा ड्राई हीट (320° F for 2 hours) का उपयोग किया जाये।
- 20. कोविड-19 महामारी के दौरान ई.एन.टी. शल्य क्रियाओं हेतु निर्देश:-
  - No COVID positive to have surgeries in OT designated for non-COVID cases.
  - COVID-19 positive patients to be operated only for emergency indications in designated OT for COVID patients.
- 21. आकस्मिक शल्य क्रिया यथासंभव पृथक ओ.टी. में सुनिश्चित किया जाये। जहाँ तक हो सके Aerosol Generating Procedures लोकल एनिसथीसिया का उपयोग कर नहीं किया जाये। रोगी के पास सीमित संख्या में ही मानव संसाधन उपस्थित रहे। प्रत्येक प्रक्रिया हेतु न्यूनतम आवश्यक सामग्री (डिस्पोजेबल, उपलब्ध हो तो) का ही उपयोग किया जाये तथा उपयोग किए हुए सामग्रियों का अपशिष्ट प्रबंधन प्रोटोकॉल अनुसार सुनिश्चित किया जाये।
- 22. शल्य प्रक्रिया संबंधी विशिष्ट निर्देश परिशिष्ट-2 पर संलग्न है।
- 23. इन्डोसकोपी तथा बायोक्प्सी हेतु मानक निर्देश परिशिष्ट-3 पर संलग्न है।

आयुक्त स्वास्थ्य, मध्यप्रदेश

भोपाल, दिनांक 0 5 / 06 / 2020

- 1. अतिरिक्त मुख्य सचिव, लोक स्वास्थ्य एवं परिवार कल्याण विभाग, मंत्रालय, वल्लभ भवन, म.प्र।
- 2. प्रमुख सचिव, लोक स्वास्थ्य एवं परिवार कल्याण विभाग, मंत्रालय, वल्लभ भवन, म.प्र।
- 3. प्रमुख सचिव, चिकित्सा शिक्षा विभाग, मध्यप्रदेश शासन वल्लभ भवन, म.प्र।
- 4. मिशन संचालक, एन.एच.एम., म.प्र।
- 5. संचालक, चिकित्सा शिक्षा विभाग, सतपुड़ा भवन, भोपाल, म.प्र।
- 6. समस्त विभागाध्यक्ष, ई.एन.टी. विभाग, शासकीय चिकित्सा महाविद्यालय, म.प्र।
- 7. समस्त संभागीय आयुक्त, म.प्र।
- 8. समस्त क्षेत्रीय संचालक, स्वास्थ्य सेवायें, म.प्र।
- 9. समस्त विकासखण्ड चिकित्सा अधिकारी, म.प्र।
- 10. प्रभारी, कोविड–19 नियंत्रण कक्ष, संचालनालय स्वास्थ्य सेवायें, म.प्र।

आयुक्त स्वास्थ्य, मध्यप्रदेश

# Rational use of Personal Protective Equipment in ENT and Head & Neck Surgery Ward

Health care personnel	1- Guard- N 95 mask		
	2- Health care worker - level I PPE kit		
	(N 95 mask and gown)		
Patients and care taker	Gown & triple layer mask		
Examination of patients/ Tracheostomy/ Tube change/	HCP should level II PPE (cover all		
suctioning of tracheostomy tube/ cleaning the ward	gown, N 95 mask, gloves, goggle		
(aerosol generating)	and face shield)		

# Rational use of Personal Protective Equipment in ENT OT Set-up

Risk Definition	Pt. Requirements	OT Personnel Requirements
HIGH RISK PATIENTS  COVID-19 positive  COVID-19 suspect  OTHER PATIENTS  Negative on RT-PCR 24 hours before surgery  Asymptomatic till 14 days isolation after admission	Surgical Mask  Face cover / surgical mask as per MoHFW's 'Additional guidelines on rational use of PPEs'	As per the guidelines for COVID positive patients  Aerosol Generating Procedures  N95 mask and eye protection (may be appropriate to reuse);  Must use face shield (to allow reuse)  Impermeable gown or gown with plastic apron  Double gloves  Powered Air-Purifying Respirator (PARP) for prolonged surgeries to minimize fogging and surgeon comfort  Non-Aerosol Generating Procedures  Surgical mask  Goggles or face shield  Gown
		• Gloves

# Common Aerosol Generating Procedures in ENT

- Direct laryngoscopy, trachea-bronchoscopy, esophagoscopy
- · Peritonsillar abscess drainage
- Nasal and paranasal sinus surgeries including nasal packing
- Foreign body retrieval from nose/ pharynx/ airway
- Tracheostomy
- Powered instrumentation in mucosal head and neck surgeries.

# Procedure Specific Guidelines

Procedure	COVID Specific Modifications	
Head and Neck Malignancy (may be considered as semi- emergent procedures)	<ul> <li>In case of pre-operative COVID positivity, surgeon should weigh the risk benefit of postponing surgery for 14 days or scheduling procedure in COVID-designated OT</li> <li>Direct laryngoscopy to be avoided just for the sake of obtaining biopsy when FNAC from neck node can be considered</li> <li>Day care surgery for early lesions preferable</li> <li>Minimise use of powered instruments to prevent aerosolization</li> </ul>	
	<ul> <li>Avoid complex reconstructive procedures.</li> <li>For prolonged surgeries, PARP may be considered</li> </ul>	
Paranasal Sinus Surgery and Skull Base	<ul> <li>Level II PPE as recommended for aerosol generating category</li> <li>Avoid in high risk category except in cases with life/ organ threatening complications</li> </ul>	
Otologic Surgery	<ul> <li>Level II PPE as recommended for aerosol generating category</li> <li>To be postponed in high risk group except in cases with life/ organ threatening complications</li> </ul>	
Tracheostomy		

<sup>\*</sup>Note: These guidelines are dynamic and may be updated from time to time as required.

#### **ENDOSCOPIES SOP:**

- 1. Adequate patient preparation is mandatory
- 2. Explaining patient regarding procedure and advise him not to cough/ sneeze during procedure.
- 3. Mouth should be covered with 3-ply mask when possible.
- 4. Decongestion of nasal cavity with oxymetazoline drops
- Lubrication of endoscope tip and adjacent area with xylocaine jelly. Xylocaine spray should be avoided
- 6. Recording preferably should be done so that repeat endoscopy can be avoided and for keeping record.
- After endoscopy, endoscope should be sterilized by immersing in 2% glutaraldehyde solution for 20 minutes.

## **BIOPSY SOP:**

- 1. Patient preparation should be done meticulously using xylocaine lozenges/gargles.
- 2. Ensure proper functioning of bipolar cautery and illumination system before start of biopsy.
- 3. Instruments should be properly sterilized in autoclave after usage.
- 4. In case of vigorous cough by patient during procedure/ after biopsy, the area needs to be decontaminated before next procedure.

# **Guidelines for safe ENT practice in COVID 19**

## Introduction

- 1. Ear, Nose, Throat (ENT) is a high-risk speciality. These guidelines are aimed to minimise the spread of COVID-19 infection among ENT doctors, nursing staff, support staff, patients and their attendants.
- 2. These comprise:
  - A. Protocols and SOPs for ENT OPD
  - B. Protocol for ENT and Head & Neck Surgery Ward
  - C. Guidelines for Operation Theatre for ENT surgeries

#### A. PROTOCOLS AND SOP FOR ENT OPD

## 1) Teleconsultation:

- Teleconsultation will be preferable
- Prior teleconsultation can be done to identify patients requiring physical examination in clinic
- 2) Appointment system (time-based appointment to limited numbers)
  - One patient at a time in examination room, if possible, without attendant
  - Sufficient time should be given for patient evaluation and for time in-between patients
  - Walk-in patients without appointment should be discouraged

## 3) Screening of patients at OPD entry:

All patients entering ENT OPD should be screened using screening proforma(Annexure

I) and thermal screening. The objective of screening is to minimize exposure to staff
and to patients. Screening is to be done to pre-screen all patients before entry and to
minimize entry to the OPD premises. Patients having symptoms suggestive of Covid 19

( Whether ENT Symptoms or Respiratory Symptoms) should be seen in a separate
"Covid-19 screening Clinic" and not in the ENT OPD. This

is so that other patients in the ENTOPD are safe. Also, personnel manning the Covid-19 Screening Clinic will have a different level of PPE.

#### 4) At entry point of OPD:

 Regulate entry of patients and ensure use of mask, hand hygiene and social distancing, as per the standard protocols advocated by M/o Health & Family Welfare

## 5) Within OPD room:

- ENT OPD room should be well-ventilated.
- ENT doctors should wear Level I PPE kit (N95 mask, gown, gloves, goggles/ face shield)
   in OPD chamber.
- Avoid performing endoscopy (Nasal endoscopy, 90 rigid or flexible endoscopyfor larynx) in routine OPD.
- If endoscopy has to be performed, it should preferably be performed in a separate demarcated area with Level II PPE kit(Cover-all gown, N-95 mask, gloves and goggles).
- Doctor should change gloves if they get soiled and refrain from eating/drinking during
   OPD timings.
- Doctor should encourage patients and their attendant to follow-up with teleconsultation based upon his/her assessment.

#### 6) Endoscopy and biopsy SOP

- Because of risk of aerosol generation during biopsies and endoscopies, all HCP(doctor, nursing staff and technical assistant) need to wear Level II kit (Cover-all gown, N-95 mask, gloves and goggles) during these procedures.
- It is preferable to have separate donning and doffing area with a supervisor for both procedures
- SOPs for endoscopy and biopsy SOP are at **Annexure II**

#### **B. PROTOCOL FOR ENT AND HEAD & NECK SURGERY WARD**

#### 1. GENERAL POINTS FOR ENT AND HEAD & NECK SURGERY WARD

• ENT AND HEAD & NECK SURGERY WARD is supposed to be COVID free and the aim of guidelines is to maintain it as a COVID free ward as possible.

- COVID 19 suspect patients should be treated in a separate ward for COVID 19 patients, and should be shifted to ENT ward only after confirmation of COVID negative status<sup>1</sup>.
- Ensure that suspected and confirmed cases of COVID-19 patients are kept separately.
- Patients should be screened for COVID 19 before admission (refer to Annexure I)
- Only one patient's care-taker should be allowed at a time who is also screened like above.
   They should comply to strict precaution for COVID 19 like wearing of mask, frequent hand washing and social distancing.
- Ensure that appropriate hand washing facilities and hand-hygiene supplies are available.
- Hand sanitization and social distancing posters must be displayed in multiple areas ofward.
- Keep the patient's personal belongings to a minimum.
- Examination instruments should be properly sterilized as per standard sterilisation protocol after every use .
- Ward should be with minimum furniture for proper cleaning and disinfection.
- Visitors should not be allowed.
- Corridors and rooms should be well-ventilated.

#### 2. Scheme for the ENT AND HEAD & NECK SURGERY WARD

- 1. Distancing of at least 2 meters in between patient beds is mandatory. Additional distance if feasible is desirable as care taker may also be accompanying patients.
- 2. Ward should be demarcated into separate areas for patients with high aerosol generating potential (e.g. Tracheostomized patients) and for patients with ENT patients
- 3. If possible, patients in the ward can be segregated depending on the time from admission.

# 3. SOME COMMON AEROSOL-GENERATING PROCEDURES IN ENT AND HEAD & NECK SURGERY WARD

- Major bulk of Aerosol-Generating Patients in ENT are tracheostomized patients
   Encourage use of HME (heat and moisture exchanger), T piece to prevent
   contamination of room.
- 2. Tracheostomy tube suctioning/ change
- 3. Nasogastric tube insertion
- 4. Procedures in Nasal and Oral cavity such as examination, cleaning, suctioning, nasal packing, foreign bodies' removal etc.

#### 4. RATIONAL USE OF PERSONAL PROTECTIVE EQUIPMENT<sup>1,5,6</sup>

Health care personnel	1- Guard- N 95 mask
	2- Health care worker - level I PPE kit (N 95
	mask and gown)
Patients and care taker	Gown & triple layer mask
Examination of patients/ Tracheostomy/ Tube	HCP should level II PPE (cover all gown, N 95
change/ suctioning of tracheostomy tube/	mask, gloves, goggle and face shield)
cleaning the ward (aerosol generating)	

(i) For rational use of PPEs, the following guidelines issued by the Ministry may be referred:

https://www.mohfw.gov.in/pdf/GuidelinesonrationaluseofPersonalProtectiveEquipment.pdf and

(ii) Additional guidelines on rational use of Personal Protective Equipment:

 $\underline{https://www.mohfw.gov.in/pdf/UpdatedAdditionalguidelinesonrationaluseofPersonalProtectiveEquip}\\ mentsettingapproachforHealthfunctionariesworkinginnonCOVID19 areas.pdf$ 

#### 5. PRACTICES FOR ENVIRONMENTAL CLEANING IN HEALTHCARE FACILITIES

Cleaning environmental surfaces with water and detergent and applying commonly used hospital disinfectants (such as sodium hypochlorite) is an effective and sufficient procedure. Regular cleaning is required to keep ward COVID-free.

#### Cleaning agents and disinfectants<sup>1,3,7</sup>

- a) Freshly prepared 1% Sodium Hypochlorite can be used as a disinfectant for cleaning and disinfection
- b) Leaving the solution for a contact time of at least 10 minutes is recommended.
- c) Ward cleaning should be done with detergent with water or 1% Sodium Hypochlorite.
- d) High contact surfaces (door and door knobs) should be regularly cleaned with 1%
   Sodium Hypochlorite.
- e) Nursing station, examination room, tracheostomised patient cubical and cubical with less than 1 week admission need more frequent cleaning than other areas of ward.

- f) Alcohol (e.g. isopropyl 70% or ethyl alcohol 70%) can be used to wipe down surfaces where the use of bleach is not suitable, e.g. metals.
- g) Sensitive equipment's (BP apparatus, thermometer, endoscopes) should be wiped with 70% alcohol-based rub/spirit swab before each patient contact.
- h) Endoscopes can be sterilized by immersing in 2% glutaraldehyde solution for 20 minutes
- i) Examination Equipment( heat stable)- (autoclave), chemical (formaldehyde) vapor, and dry heat (e.g., 320° F for 2 hours)

For more details (like frequency of cleaning / different items)-

(https://www.mohfw.gov.in/pdf/Guidelinesondisinfectionofcommonpublicplacesincludingoffices.pdf)

#### C. GUIDELINES FOR OPERATION THEATRE FOR ENT SURGERIES DURING COVID-19 PANDEMIC

**Objectives** - To escalate the preparedness towards reinstating operation theatre (OT) practices for ENT surgeries in the wake of COVID-19 pandemic.

- No COVID positive patient to have surgeries in OT designated for non-COVID cases.
- COVID 19 positive patients to be operated only for emergency indications in designated OT for COVID patients
- ENT Surgical procedures are associated with very high transmission risk <sup>8</sup> of COVID-19 due to the following factors.
  - a. Upper aerodigestive tract is the post of entry, nidus and exit route for the Novel Corona Virus.
  - b. High aerosol generation during surgeries in the upper aerodigestive tract
  - c. Prolonged aerosolization during and following prolonged operative procedures and procedures using powered instruments like micro-debrider and drills.

This flow chart to be considered for non-emergency cases

# Prescreening as per Annexure I(Symptoms, Contact, Residential Zone) **Examination** 1. Non-contact Thermographic screening 2. Room air SpO2 3. Respiratory Rate 4. Chest X Rav Patient Planned for surgery For patients not tested / cannot Covid 19 RT-PCR Test be tested for COVID-19 Admit 24-48 hours before planned Strict quarantine for 7-14 days surgery and isolate the patient Operate if asymptomatic at the end of 7-14 days Covid -ve → Surgery Covid suspect or +ve; Postpone elective surgery for 7-14 days& reassess

## Post-Operative:

- Discharge the patient when physiologically stable
- Advise for self-isolation for 5-7 days.

#### Modifications in OT set-up and personnel protection

- Emergency procedures (for life/ organ threatening diseases/conditions) in COVID-19 POSITIVE
   AND SUSPECTED patients to be performed in separate OT complex.
- When not practical, the operating room for such cases must be dedicated and as close as
  possible to the entrance of the OT block.
- Aerosol generating procedures under local anaesthesia should be avoided.
- Minimum number of personnel (i.e., surgeons, anaesthetists, nurses, technicians) should enter the OR in a timely manner.
- Minimal required material (preferably disposable) should be used for each intervention.
- At the end of each intervention all disposable materials must be disposed of properly and all surfaces as well as electro-medical devices accurately cleaned and disinfected
- PPE must be removed and disposed off outside the OT in dedicated doffing areas.
- All procedures not physically related to the patient (i.e., clinical and surgical documentation) must be performed outside the OT.

# PPE Guidelines 10

Risk Definition		Patient	OT Personnel Requirements
		Requirements	
HIGH F	RISK PATIENTS	Surgical Mask	As per the guidelines for COVID
0	COVID-19 positive		positive patients
0	COVID-19 suspect		
OTHER	PATIENTS	Face cover /	Aerosol Generating Procedures *
0	Negative on RT-PCR 24	surgical mask as	N95 mask and eye protection (may
	hours before surgery	per MoHFW's	be appropriate to reuse);
0	Asymptomatic till 14	'Additional	Must use face shield (to allow
	days isolation after	guidelines on	reuse)

admission	rational use of	Impermeable gown or gown with
	PPEs'	plastic apron
		Double gloves
		Powered Air-Purifying Respirator
		(PARP) for prolonged surgeries to
		minimize fogging and surgeon
		comfort
		Non-Aerosol Generating Procedure
		Surgical mask
		Goggles or face shield
		• Gown
		• Gloves

\*Most of the ENT operations involving upper aerodigestive tract including the common procedures summarised below would be considered aerosol generating.<sup>10</sup>

- Direct laryngoscopy, trachea-bronchoscopy, esophagoscopy
- Peritonsillar abscess drainage
- Nasal and paranasal sinus surgeries including nasal packing
- Foreign body retrieval from nose/ pharynx/ airway
- Tracheostomy
- Powered instrumentation in mucosal head and neck surgeries.

# **Procedure Specific Guidelines**

Procedure	COVID Specific Modifications		
Head and Neck Malignancy	In case of pre-operative COVID positivity, surgeonshould		
(may be considered as semi-	weigh the risk benefit of postponing surgery for 14 days		
emergent procedures)	or scheduling procedure in COVID-designated OT		
	Direct laryngoscopy to be avoided just for the sake of		
	obtaining biopsy when FNAC from neck node can be		
	considered		
	Day care surgery for early lesions preferable		
	Minimise use of powered instruments to prevent		

	aerosolization
	Avoid complex reconstructive procedures.
	For prolonged surgeries, PARP may be considered
Paranasal Sinus Surgery and	Level II PPE as recommended for aerosol generating
Skull Base	category
	Avoid in high risk category except in cases with life/
	organ threatening complications
Otologic Surgery	Level II PPE as recommended for aerosol generating
	category
	<ul> <li>To be postponed in high risk group except in cases with</li> </ul>
	life/ organ threatening complications
	ine/ Organ Uneatering Complications
Tueskasakaus	When feedble CA fellowing into hotion about the
Tracheostomy	When feasible, GA following intubation should be
	considered.
	If intubation is not feasible, consider superior laryngeal
	nerve block and inject lignocaine into the trachea prior
	to incising the trachea to reduce cough.
	<ul> <li>Transient apnoea to be maintained during the brief</li> </ul>
	period tracheal incision to cuff inflation of inserted
	tracheostomy tube.
	<ul> <li>Closed suction system to be used and usage to be</li> </ul>
	guarded.
	<ul> <li>Double lumen cuffed tube may be used to avoid</li> </ul>
	frequent tube change due to tube blockage post-
	operatively
	<ul> <li>Heat moisture exchanger (HME) to be attached to</li> </ul>
	tracheostomy tube when patient is shifted to ward
	<ul> <li>For high risk cases, a triple layer/ N95 mask may also be</li> </ul>
	worn over the tracheostomy tube.

Note: These guidelines are dynamic and may be updated from time to time as required.

## Annexure I: Screening proforma

# a) Symptoms

Table 1-Symptoms for COVID-19 infection

Most common symptoms:	Less common symptoms: Serious symptoms:	
Fever	Aches and pains Difficulty breathing or	
Dry cough	Sore throat shortness of breath	
Tiredness	Diarrhoea	Chest pain or pressure
	Conjunctivitis	Loss of speech or movement
	Headache	
	Loss of taste or smell	
	A rash on skin, or	
	discolouration of fingers or	
	toes	

- (a) Are you suffering from fever/cough/difficulty in breathing
- **(b)** Are you residing in a containment zone
- (c) Have you been in contact with a confirmed COVID-19 case in last 14 days

#### **ENDOSCOPIES SOP:**

- 1. Adequate patient preparation is mandatory
- 2. Explaining patient regarding procedure and advise him not to cough/ sneeze during procedure.
- 3. Mouth should be covered with 3-ply mask when possible.
- 4. Decongestion of nasal cavity with oxymetazoline drops
- 5. Lubrication of endoscope tip and adjacent area with xylocaine jelly. Xylocaine spray should be avoided
- 6. Recording preferably should be done so that repeat endoscopy can be avoided and for keeping record.
- 7. After endoscopy, endoscope should be sterilized by immersing in 2% glutaraldehyde solution for 20 minutes.

#### **BIOPSY SOP:**

- 1. Patient preparation should be done meticulously using xylocaine lozenges/ gargles.
- 2. Ensure proper functioning of bipolar cautery and illumination system before start of biopsy.
- 3. Instruments should be properly sterilized in autoclave after usage.
- 4. In case of vigorous cough by patient during procedure/ after biopsy, the area needs to be decontaminated before next procedure.

Infection Prevention & Control Guidelines for 2019-nCoV (COVID-19)
 <a href="https://www.aiims.edu/images/pdf/notice/Updated COVID 19 HIC SUPPLEMEN T VERSION">https://www.aiims.edu/images/pdf/notice/Updated COVID 19 HIC SUPPLEMEN T VERSION</a>

1.2 30 March 2020.pdf

2. Guidelines for Setting up, Isolation

Facility/Ward

https://ncdc.gov.in/showfile.php?li

<u>d=50</u>

- COVID-19: Guidelines on disinfection of common public places including offices
   https://www.mohfw.gov.in/pdf/Guidelinesondisinfectionofcommonpublicplacesin
   cludingoffice s.pdf
- 4. What are the symptoms of COVID-19?

https://www.who.int/emergencies/diseases/novel-coronavirus-2019/question-and-answers-hub/q-a-detail/q-a-coronaviruses#:~:text=symptoms

Appropriate use of various PPEs at AIIMS (Based on WHO Recommendations for COVID-19)

https://www.aiims.edu/images/pdf/notice/PPE%20guideline%20chart%20final 1.pdf

Novel Coronavirus Disease 2019 (COVID-19): Additional guidelines on rational use
of Personal Protective Equipment (setting approach for Health functionaries
working in non-COVID areas)
<a href="https://www.mohfw.gov.in/pdf/AdditionalguidelinesonrationaluseofPersonalProtectiveEquipm">https://www.mohfw.gov.in/pdf/AdditionalguidelinesonrationaluseofPersonalProtectiveEquipm</a>

entsettingapproachforHealthfunctionariesworkinginnonCOVIDareas.pdf

 Guideline for Disinfection and Sterilization in Healthcare Facilities, 2008.

https://www.cdc.gov/infectioncontrol/guidelines/disinfection/

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