Impact of COVID-19 on GI Endoscopy Practice in India: a Cross-sectional study

Questionnaire

Section 1: Knowing your practice

1) In which of the following age group do you belong?
   - Less than 30 years
   - 31-40 years
   - 41-50 years
   - 51-60 years
   - >60 years

2) What is your main place of endoscopy practice?
   - Independent endoscopy unit
   - Private GI setup
   - Corporate multi-speciality hospital
   - Government hospital
   - Government medical college/teaching institution
   - Private medical college and teaching hospital

3) In which area does your endoscopy set up belong?
   - Rural
   - Urban
   - Metropolitan city

4) Number of endoscopy procedures performed per day in your unit in last year?
   - <10
   - 10-25
   - 25-50
   - 50-100
   - >100
5) Types of procedures performed at your center (can have multiple answers)

Upper GI endoscopy
Lower GI endoscopy
ERCP
EUS
Third space endoscopy
EMR/ESD

6) Does your institute have DM/DNB students?

Yes
No

7) Type of disinfection you use for your endoscope

Manual
Automatic
Both
Section 2- Your concept on COVID-19 and GI endoscopy

8) Do you believe GI endoscopy is aerosol generating procedure?
   Yes
   No
   Yes but except colonoscopy
   Not sure

9) Do you think feco-oral transmission of COVID-19 is possible?
   Yes
   No
   Maybe

10) Reported data suggest performing endoscopy has following percentage risk of getting COVID-19 infection among endoscopy health care personnel
    <5 %
    5-10%
    10-20%
    >20%

11) Transmission of COVID 19 during endoscopy can be due to
    Aerosol
    Fomites
    Both
Section 3- Impact of COVID-19 Pandemic on GI endoscopy practice

12) As compared to your usual practice what percentage of endoscopy procedures are performed in this COVID-19 era in your unit?
   <10 %
   10-25 %
   25-50 %
   >50 %

13) What has made you to perform less endoscopy procedures during this COVID-19 pandemic?
   Patients attending hospital are less due to lock-down
   You yourself are limiting the no of patients due to the latest guidelines recommending to avoid routine endoscopies
   You yourself are limiting the no of patients due to the fear of getting exposed to the infected patients
   You are facing difficulty in managing the usual no of patients due to a smaller number of staffs/technician available due to lock-down
   You have been advised by the higher authorities of your setup to avoid routine endoscopy procedures till the lock-down is over

14) What triage system are you using before endoscopy? (can have multiple answers)
   History of travel and contact to positive case
   History of residence in cluster area (red zone)
   Recording temperature
   Virology test (RT-PCR)
   CT scan of chest

15) Presently in which of the following indications you are performing GI endoscopy? (can have multiple answers)
   GI bleed (hemodynamically stable)
   GI bleed (hemodynamically unstable)
   Intestinal obstruction
   Cancer screening
   Suspected GI malignancy
   Cholangitis
   CBD calculi (with no signs of cholangitis)
   Obstructive jaundice without cholangitis
   Insertion of PEG tube
   Enteroscopy for detecting the cause of occult GI bleed
   Dyspepsia/GERD
16) In your opinion, what should be the practice of endoscopy during the COVID-19 pandemic?
Stop all kind of endoscopic procedures
Continue all the emergency procedures but stop all the elective ones
All the procedures should be continued as before with proper precaution and personal protective equipment
High-risk elective procedures should be discontinued but low-risk and emergency procedures should be continued

17) For complex hilar block, presently you prefer-
ERCP
PTBD
Either of the above

18) What Personal Protective Equipment (PPE) do you use during endoscopy? (can have multiple answers)
Surgical mask
N95 or similar mask
Two pair of surgical gloves
Shoe cover
Hairnet
Face shield or goggle
Complete PPE

19) What precaution(s) do you take in endoscopy room during the procedure? (can have multiple answers)
Reduce manpower
No reuse of accessories
Increased use of sedation/anesthesia
More aggressive disinfection of endoscope
Increased time gap between endoscopic procedures

20) Do you have facility to use negative pressure room for endoscopy in COVID patients?
Available in the endoscopy suit
Available outside the endoscopy suit
Not available
21) Do you follow up your patient for a few weeks after endoscopy procedure to find out any evidence of COVID-19 in them?
   Yes
   No
   Desirable but not practicable

22) Are you aware of endoscopy health care worker developing COVID-19 in your locality?
   Yes
   No
   Suspected and is under quarantine

23) Do you think we will have to change our paradigm for our endoscopy practice?
   Yes for few months
   Yes for long time
   No