Since early 2020, the COVID-19 coronavirus outbreak has led to many cancellations of medical meetings, including live gastrointestinal (GI) endoscopy courses. Although, the Thai Association of Gastrointestinal Endoscopy (TAGE) annual GI Live Endoscopy Demonstration was able to continue, many overseas faculty members and delegates from China could not participate. TAGE arranged a live-streaming session from Wuhan out of respect for the Chinese endoscopists and their healthcare personnel. The session not only allowed the endoscopy community to show its support for Chinese colleagues who have worked at the frontline, but TAGE and the GI Live delegates learned about the protective measure taken by GI endoscopy personnel during the outbreak (▶ Video 1). Nevertheless, during a pandemic crisis, all meetings and courses should be canceled. Although GI endoscopy is not considered a high-risk aerosol-generating procedure like endotracheal intubation [1], a risk of infection to healthcare personnel does exist during close-contact endoscopy. The Wuhan team has recommended many specific measures, including risk stratification of patients (▶ Fig.1) and endoscopy staff (▶ Fig.2), and three levels of personal protective equipment depending on the infection risk of the patient (▶ Fig.3).

At the beginning of the COVID-19 outbreak in Wuhan, there was a huge number of potentially infected cases and the number of nucleic acid detection kits, which was the only available diagnostic test, was insufficient; in addition, the false-negative rate of the test was not acceptable. Consequently, computed tomography scan and routine blood testing, both of which are widely available, became the most appropriate screening tests. The idea is to reduce the dispersal of respiratory secretions containing potentially infectious particles.

During this epidemic crisis, all elective endoscopies have been canceled, as GI endoscopy is considered high risk owing to contact with fecal matter, which may contain the virus. In addition, the hospital has used patient screening to place patients with suspected infection into the same designated wards. However, once the number of infected patients exceeded the normal hospital capacity, the Chinese government constructed special hospitals for COVID-19 patients [2]. During the TAGE GI Live sessions, invited faculty and all delegates were very impressed by the demonstrations and appreciated the efforts of the medical personnel in China. They stood together and mourned the loss of colleagues who had passed away from the virus infection.

Competing interests

The authors declare that they have no conflict of interest.
The authors

Zhen Ding1, Pradermchai Kongkam2,3,4, Thanawat Luangsukrerk2,3,4, Jun Liu1, Yaping Cheng1, Thawee Ratanachu-ek3,5, Rungsun Rerknimitr2,3,4

1 Division of Gastroenterology, Union Hospital, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China
2 Gastrointestinal Endoscopy Excellence Center and Division of Gastroenterology, Department of Medicine, Faculty of Medicine, Chulalongkorn University and King Chulalongkorn Memorial Hospital, Thai Red Cross Society, Bangkok, Thailand
3 Thai Association for Gastrointestinal Endoscopy, Bangkok, Thailand
4 Pancreas Research Unit, Department of Medicine, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand
5 Rajavithi Hospital, Ministry of Public Health, Bangkok, Thailand

Corresponding author

Pradermchai Kongkam, MD
Gastrointestinal Endoscopy Excellence Center and Division of Gastroenterology, 1873, GI Endoscopy Unit, 10th Floor Bhumisirimunkalanusorn Building, King Chulalongkorn Memorial Hospital, Rama IV Road, Pathumwan, Bangkok, 10330, Thailand
Fax: +66-2-2564265
kongkam@hotmail.com

References


DOI https://doi.org/10.1055/a-1158-9016
Published online: 2020
Endoscopy
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

Video 1 This Video was a lecture from Wuhan during the 2020 annual meeting of the Thai Association for GI Endoscopy (TAGE). The session did not only allowed the endoscopy community to show its support for Chinese colleagues who have worked at the frontline, but TAGE and the GI (gastrointestinal) Live delegates learned about the protective measure taken by GI endoscopy personnel during the outbreak.

Video 1

Fig. 3 The three levels of personal protective equipment recommended for protection of endoscopy staff. The level of protection depends on the infection risk of the patient.

Level 1
- Medical hairnet
- Mask
- Gloves
- Medical coat

Level 2
- Medical hairnet
- Mask
- Gloves
- Medical protective clothes
- Goggle/face shield
- Shoe cover

Level 3
- Medical hairnet
- Mask
- Double Gloves
- Medical protective clothes
- Face shield
- Shoe cover
- Mask respirator

Endoscopy During COVID-19 Outbreak

Gut Feeling From Wuhan

DOI https://doi.org/10.1055/a-1158-9016
Published online: 2020
Endoscopy
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

Ding Zhen et al. Advice for GI endoscopy during COVID-19 outbreak... Endoscopy