

Putting on (donning) Personal Protective Equipment (PPE) for aerosol generating procedures in Endoscopy



Principles for donning PPE

- Short clean nails, no nail polish, no jewellery, no wristwatch.
- Ensure safe fitting of your glasses, because you should not touch your face/glasses afterwards, tie hair back
- Ensure that healthcare workers are sufficiently hydrated
- Select suitable PPE in correct protection level and size

outside the procedure room

1. Hand hygiene

Attention: Hand hygiene is always the starting point

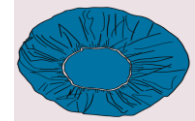
- Decontaminate hands with alcohol gel



2. Protect your hair

Disposable hairnet

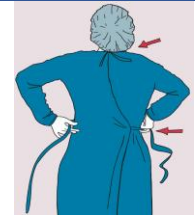
- Wear hairnet during endoscopic procedures and endoscope reprocessing



3. Protect your body

Long sleeved, water-resistant gown (EN 14126)

- Fully cover torso from neck to knees
- Cover arms to the end of the wrists
- Fasten neck and waist ties
- Ask a second operator to assist in closing up the back



4. Protect your face and eyes

Surgical mask (DIN EN 146683)

FFP2 / FFP3 respirators (DIN EN 149) depending on risk level

- Safe closure of straps
- Adjust and mould the nose part with light pressure using your hands and light pressure
- Fix mask tightly around nose, cheeks and chin
- If the mask does not fit well, check the size
- Test FFP2 / FFP3 masks for correct fit and function (see IFU)



Protect eyes by using goggles and / or full-face-shield

- Place goggles over mask and eyes
- Finally place face shield to protect mask and face from contamination
- Adjust the headband to fit



5. Protect your hands

For examination - surgical gloves (EN 455)

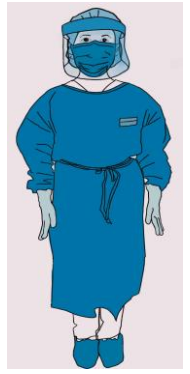
For endoscope reprocessing – chemical resistant (EN 374)

Double gloves in case of infectious patients like COVID 19

- Ensure that cuff of gloves cover cuff of gown
- Select appropriate size and quality



Removal of (doffing) Personal Protective Equipment (PPE) for aerosol generating procedures in Endoscopy



Principles for removing PPE

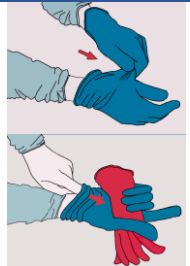
- PPE should be removed in a systematic way that minimises the potential for cross contamination
- If possible, have a colleague watch you removing PPE to provide reassurance you have the right technique to prevent contamination

Inside the procedure room

1. Remove gloves

Attention: Gloves are contaminated

- Grasp the outside of glove with the opposite gloved hand
- Peel off first glove, hold removed glove in gloved hand
- Slide the fingers of the un-gloved hand under the remaining glove at the wrist, peel off the remaining glove over the first glove
- Discard gloves in designated contaminated clinical waste container



2. Hand hygiene

Attention: Hands are contaminated after wearing gloves

- Decontaminate hands with alcohol gel in order to protect yourself



3. Remove gown

Attention: Gown front and sleeves are contaminated

- Unfasten neck, a second operator can assist in untying the back
- Only touch inside of gown
- Pull down gown by using a peel-off technique from neck/ shoulders
- Turn the gown inside out, fold and roll into a bundle
- Discard in a designated contaminated waste container



4. Hand hygiene

Attention: Hands decontamination before leaving the procedure room

- Decontaminate hands with alcohol gel
- Leave the procedure room



Outside the procedure room

5. Hand hygiene

Attention: Hands decontamination before touching your head

- Repeat hand hygiene before removing face protection in order to protect yourself



6. Remove face and eye protection

Attention: Front side of goggles, face shields, masks and hairnet might be contaminated, Remove face protection in the following order:

- I. First remove face shield / goggles
 - II. then remove mask
 - III. finally remove hairnet
- lift back part of the retraining straps by using both hands
 - Use a peel-off technique by pulling away from behind
 - Discard single-use devices or decontaminate reusable device immediately
 - If your hands get contaminated in between steps, perform hand hygiene immediately



7. Hand hygiene

Attention: Hands need to be decontaminated after taking off all PPE

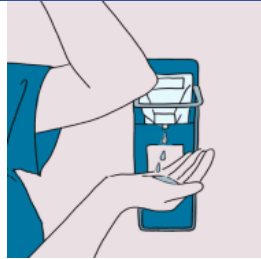
- Decontaminate and wash hands after removing all PPE
- Using correct technique to ensure all area of hands are clean



Putting on (donning) Personal Protective Equipment (PPE) for aerosol generating procedures in Endoscopy

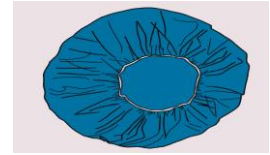
Outside the procedure room

1. Hand hygiene

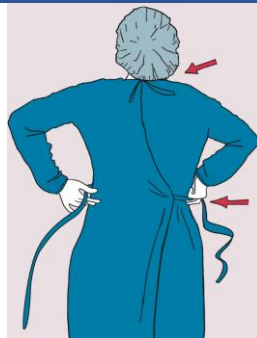


Perform hand hygiene before putting on PPE

6. Protect your hair



2. Protect your body



Put on long-sleeved fluid repellent disposable gown

3. Protect your face and eyes

For low risk patients

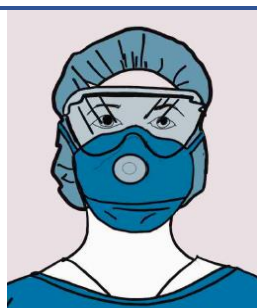


Adjust and fix the mask tightly

Use face shield to protect the mask and your face from contamination

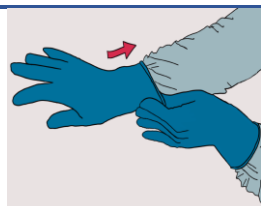
4. Protect your face and eyes

For high risk patients



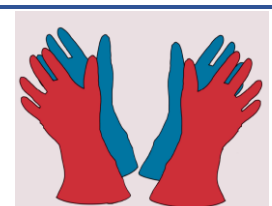
Use FFP 2/ FFP 3 masks, goggles and face shield in high risk patients

5. Protect your hands



Gloves over cuff of gown

Double gloves in case of infectious patients

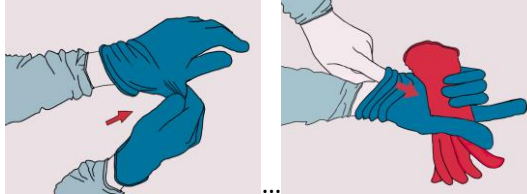


Removal of (doffing) personal protective equipment (PPE) for aerosol generating procedures in Endoscopy

Remove PPE in a systematic order that minimises potential cross contamination

Inside the procedure room

1.
Remove
gloves



2.
Hand hygiene



3.
Remove gown



4.
Repeat hand
hygiene

Outside the procedure room

5.
Repeat hand
hygiene



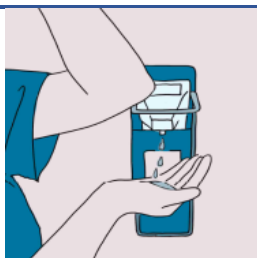
Decontaminate your hands before touching your head

6.
Remove face
protection



Do not touch outside of shield, goggles or mask
They might be contaminated

7.
Hand hygiene



Decontaminate and wash hands after removing all PPE

Using correct technique to ensure all area of hands are clean