# COVID-19 St Thomas' Main Theatres QUICK REFERENCE HANDBOOK

Guy's and St Thomas' NHS Foundation Trust

THEATRES, ANAESTHETICS AND PERIOPERATIVE MEDICINE



# TAP Theatres QRH - Contents

Card	Title
T1-1	<b>Aerosol Generating Procedures</b>
T1-2	Surgical Procedures for a COVID
T1-3	Post-operative Procedures for a
<b>T1-4</b>	<del>Guy's Hospital In-patient plan fo</del>
T1-5	<b>Cath-lab Procedures for a confir</b>
<b>T1-6</b>	Cath-lab Procedures for a suspe
ТЭ 1	Donning DDE for a COV/ID 10 nati
T2-1	Donning PPE for a COVID-19 pati
T2-2	Doffing PPE for a COVID-19 patie
T3-1	Preparing for intubation of a CO
T3-2	Intubation of a COVID-19 patien <sup>-</sup>
T3-3	Extubation of a COVID-19 patien
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T4-5	Portable imaging of a patient wi
T4-6	Internal Guy's to St Thomas' trai

**General Policies** 

ID-19 patient

a COVID-19 patient

for COVID-19

firmed COVID-19 patient pected COVID-19 patient

**Personal Protective Equipment** 

atient in theatre tient in theatre

Procedures

COVID-19 patient ent ent in a COVID-19 patient

**Patient Transfers** 

er of a patient with confirmed COVID-19 er of a patient with suspected COVID-19 with confirmed COVID-19 for a procedure with suspected COVID-19 for a procedure with suspected or confirmed COVID-19 ransfer of a patient with confirmed COVID-19

### Deprecated

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# TAP Theatres QRH - Contents

Title Card

T5-1	Setting up a Drager anaestheti
T5-2	Daily checks and maintenance
T5-3	Setting up a Hamilton T1 venti

Daily checks and maintenance for a Hamilton T1 ventilator T5-4

**Critical Care Procedures** 

ic machine for a new patient

## e for a Drager anaesthetic machine

ilator for a new patient

In process

In process In process

# Action Card (v1-2) **T1-1: Aerosol Generating Procedures**

# **Objective:** To define aerosol generating procedures that require maximal PPE. To be used in conjunction with **ACTION CARD** 8a: Personal Protective Equipment with FFP3 Mask/T2-1: Donning PPE for a COVID-19 Patient in Theatre

### **Procedure List**

- Tracheotomy/tracheostomy procedures (insertion/open suctioning, removal)
- Bronchoscopy
- Some dental procedures (such as high-speed devices)
- High-frequency Oscillating Ventilation (HFOV)
- High-flow Nasal Oxygen (HFNO), also called High-flow Nasal Cannula
- Induction of sputum

### Notes

- Administration of medication via nebulisation is **not** an AGP

- Dentistry and post-mortem procedures are being dealt with separately

# **Agreed list of Aerosol Generating Procedures**

• Intubation, extubation, and related procedures such as manual ventilation and open suctioning

• Surgical procedures on the upper and lower respiratory tract only involving high-speed devices

• Non-invasive ventilation (NIV) such as Bi-level Positive Airway Pressure (BIPAP) and Continuous Positive Airway Pressure (CPAP) ventilation

• Fit-tested FFP3 masks are only required for those conducting the procedures listed above, or for any staff who must also be in the room during the procedure • Where AGPs are medically necessary, they should be undertaken in a negative-pressure room if available, or in a single room with the door closed

• If AGPs are undertaken in the patient's own room the room should be decontaminated 20 minutes after the procedure has ended





# Action Card (v1-2) **T1-2: Surgical Procedures for a COVID-19 Patient**

## **Objective:** To co-ordinate teams and allow sufficient preparation, allowing safe conduct of a surgical procedure for both patient and staff

1	Check the consultant anaesthetist is
	Priority consultant weekdays 0800 -
2	Check critical care team is aware of
3	Prepare teams
	Assemble all team members
	Check PPE requirements with all tear
	Perform WHO team brief
	Theatre Co-ordinator and consultant
	If long operation, identify a relief tea
	Prompt staff to take comfort breaks
4	Prepare theatre
	Apply infection control notices to the
	Prepare empty bins dedicated for us
	Check supplies of alcohol gel, sterilis
	Check anaesthetic machine and drug
6	Don PPE appropriate to role and risk
6	Confirm consultant anaesthetist is re
	Call security/porters and Essentia to
	Call ward and instruct to keep notes
7	Induce anaesthesia in theatre (see T and T3-2: Intubation of a COVID-19 Pat
	Start a 20 minute timer

## is aware of the booking

1700, otherwise contact on-call consultant

## the booking

am members (see *General Principles*)

t anaesthetist to confirm theatre allocation

am

before donning PPE

leatre doors

ised PPE in both theatre and sluice

ising equipment, and Clinell wipes

Jg/fluid stock levels

### k (see T2-1: Donning PPE for a COVID-19 Patient)

### ready then send for patient

o clear route to theatre

s at origin

**[3-1: Preparing for intubation of a COVID-19 Patient** tient)

# **General Principles**

- Elective surgery should be postponed until the patient has recovered
- infection control, and HCID team
- On arrival the patient must be transferred directly into the allocated theatre
  - used for 30 minutes
- Only essential people should be in theatre during the procedure; a runner should be stationed in the anaesthetic room
  - All staff involved must be trained in safe PPE use
  - intubation
- PPE for surgical team:
  - 20 minutes of intubation FFP3 PPE must be worn
  - If no AGP and can wait 20 minutes, gown, gloves, and surgical facemask must be worn

## **Useful Contacts**

### Infectious Diseases Teams

- HCID Consultant: 0963
- HCID Registrar: 0962
- CRT Registrar: 0610
- ID Registrar: 07827 841972
- Virology Consultant: via switchboard

### Theatres

- Anaesthetic Consultant: via switchboard or CLW
- Anaesthetic Registrar: 0153
- Theatre Co-ordinator: 0191



• Decision to proceed must involve consultant surgeon, consultant anaesthetist,

Bypass the anaesthetic room; this must remain clean during the procedure • If there has been contamination or spills on transfer, routes used may not be

• If possible, the surgical team should not enter theatre until 20 minutes post-

• If AGP (see T1-1: Aerosol Generating Procedures) or if required to enter within

# Action Card (v1-0) **T1-3: Post-operative Procedures for a COVID-19 Patient**

## **Objective:** To co-ordinate teams allowing safe conduct of a surgical procedure for both patient and staff

1	Perform sign-out per usual practice
2	Check if patient can be extubated
	⊃ If yes:
	Staff not wearing FFP3 PPE must d
	Perform extubation (see T3-3: Extu
	Patient must be recovered in thea
	⊃ If no:
	Call CRT registrar, HCID team, and
	Prepare for transfer to critical care
8	Start a 20 minute timer
4	Prepare specimens for transfer
	Check specimens are double-bagged
	Use a dedicated specimen box or cod
	Send specimens directly to laborator
6	Scan documentation to EPR then safe
6	Check timer
	Staff may doff PPE 20 minutes after t
7	Request disinfection of theatre (see t
	After disinfection:
	Check surgical stock
	Check anaesthetic stock

doff PPE and leave theatre (see *T2-2: Doffing PPE*)

ubation of a COVID-19 patient)

atre

Infection Control teams

re area (see *T4-1* for principles of transfer)

and labelled

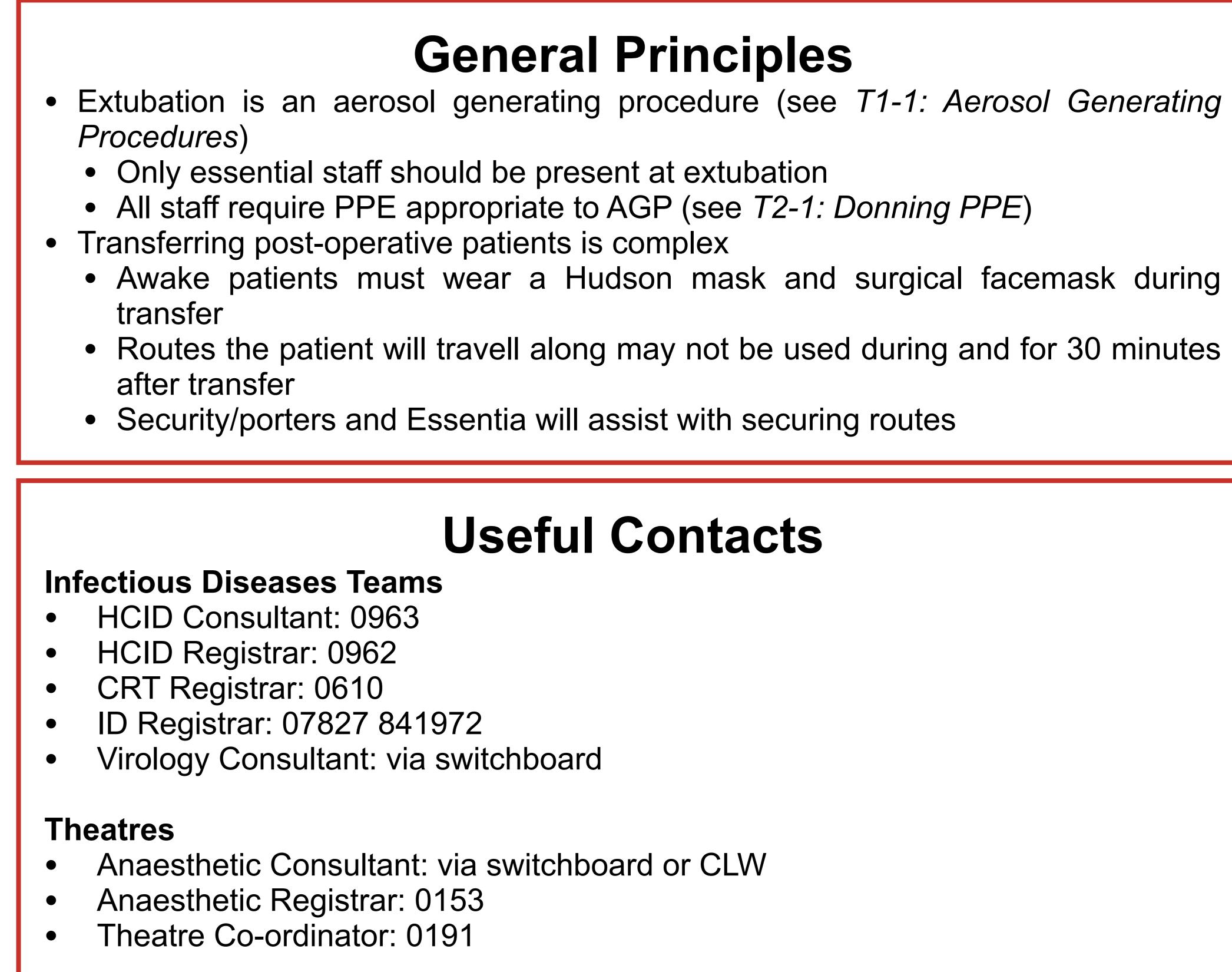
poler

ry

## fely dispose of paper records

the last AGP (see *T2-2: Doffing PPE*)

## theatre disinfection protocol)

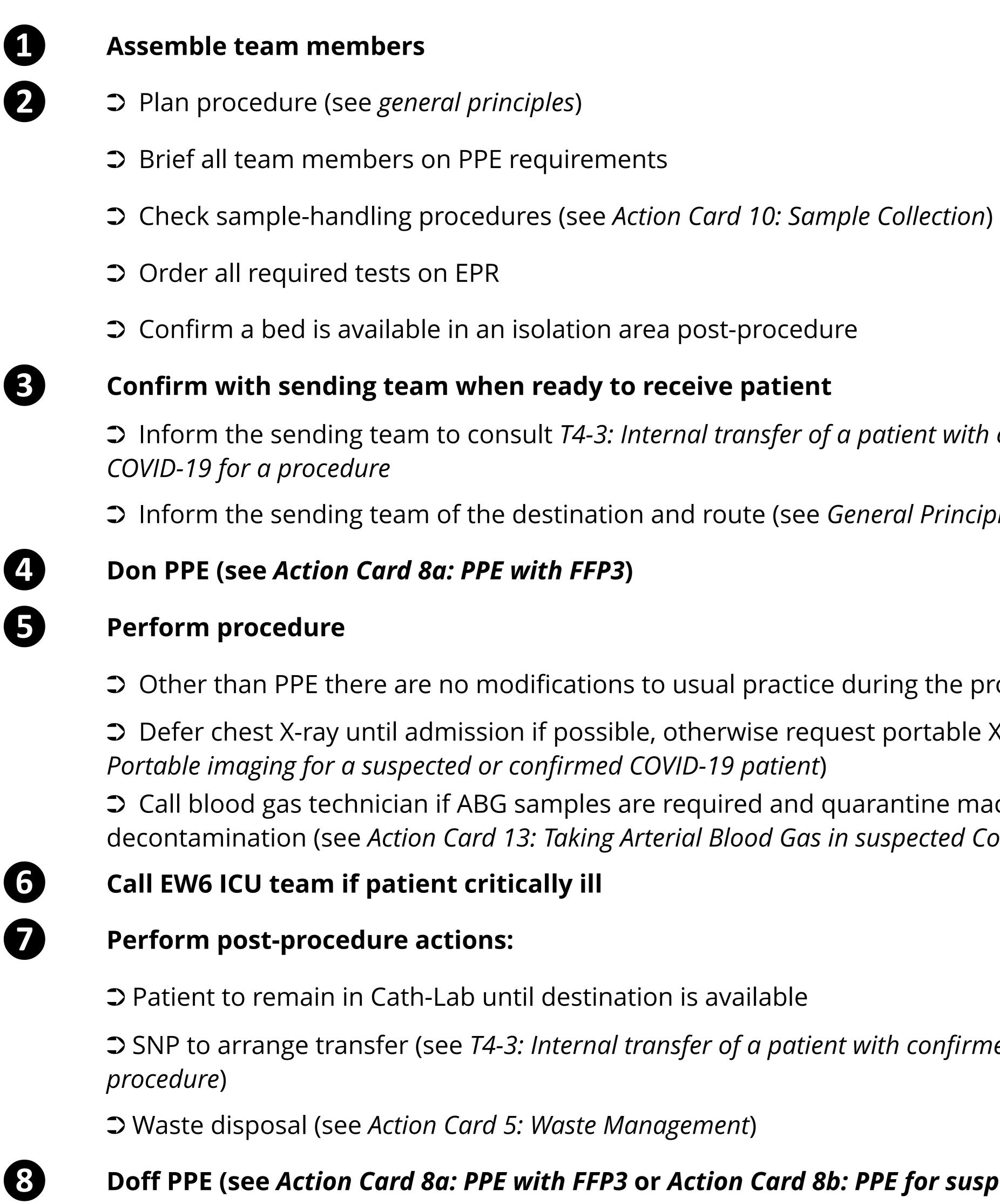




Routes the patient will travell along may not be used during and for 30 minutes

# Action Card (v1-0) T1-5: Cath-lab procedures for a confirmed COVID-19 patient

# **Objective:** Safe transfer of a patient with confirmed COVID-19, who needs an emergency or urgent procedure in the Cath-lab, whilst minimising risk to the patient, staff, and the hospital environment.



Cleaning)

○ Inform the sending team to consult T4-3: Internal transfer of a patient with confirmed

➔ Inform the sending team of the destination and route (see General Principles)

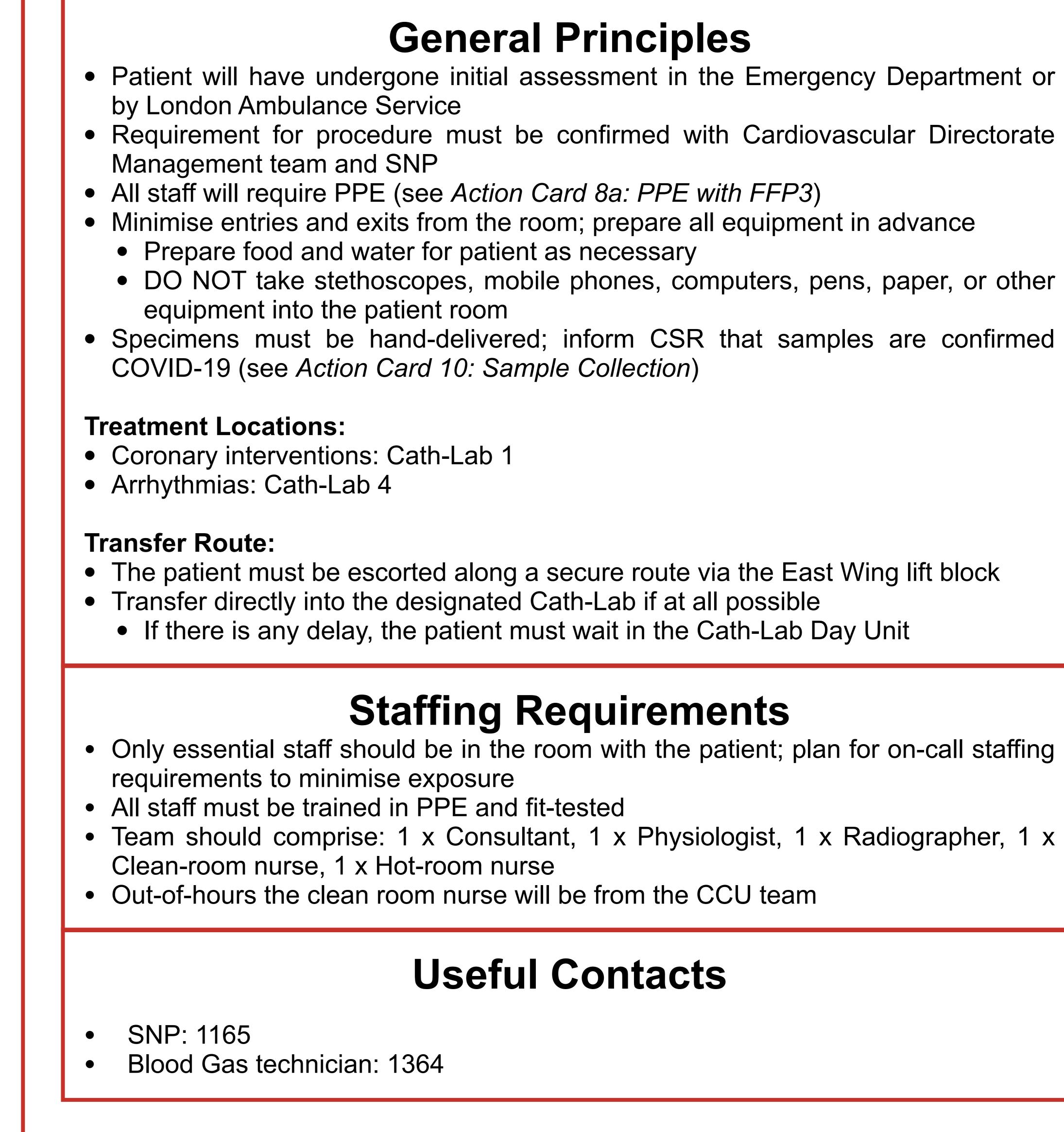
Other than PPE there are no modifications to usual practice during the procedure

➔ Defer chest X-ray until admission if possible, otherwise request portable X-Ray (see T4-5:

Call blood gas technician if ABG samples are required and quarantine machine pending decontamination (see Action Card 13: Taking Arterial Blood Gas in suspected Coronavirus))

SNP to arrange transfer (see T4-3: Internal transfer of a patient with confirmed COVID-19 for a

Doff PPE (see Action Card 8a: PPE with FFP3 or Action Card 8b: PPE for suspected COVID-19) Call rapid response team for room decontamination (see Action Card 9: Environmental





• DO NOT take stethoscopes, mobile phones, computers, pens, paper, or other

# Action Card (v1-0) T1-6: Cath-lab procedures for a suspected COVID-19 patient

# **Objective:** Safe transfer of a patient with suspected COVID-19, who needs an emergency or urgent procedure in the Cath-lab, whilst minimising risk to the patient, staff, and the hospital environment.

ble team members assess PPE requirements based rosol Generating Procedures) procedure (see general principle fall team members on PPE requires k sample-handling procedures of with sending team when read im the sending team to consult 9 for a procedure
rosol Generating Procedures) procedure (see general principle all team members on PPE requ k sample-handling procedures ( with sending team when read m the sending team to consult
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k sample-handling procedures with sending team when read read read the sending team to consult
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m the sending team to consult
E (see Action Card 8a: PPE with
n procedure
er than PPE there are no modific
throat swab for COVID-19 scre
n Post-procedure Actions
-

d on likelihood of aerosol generating procedures (see

es)

uirements (see PPE requirements)

(see Action Card 10: Sample Collection)

## dy to receive patient

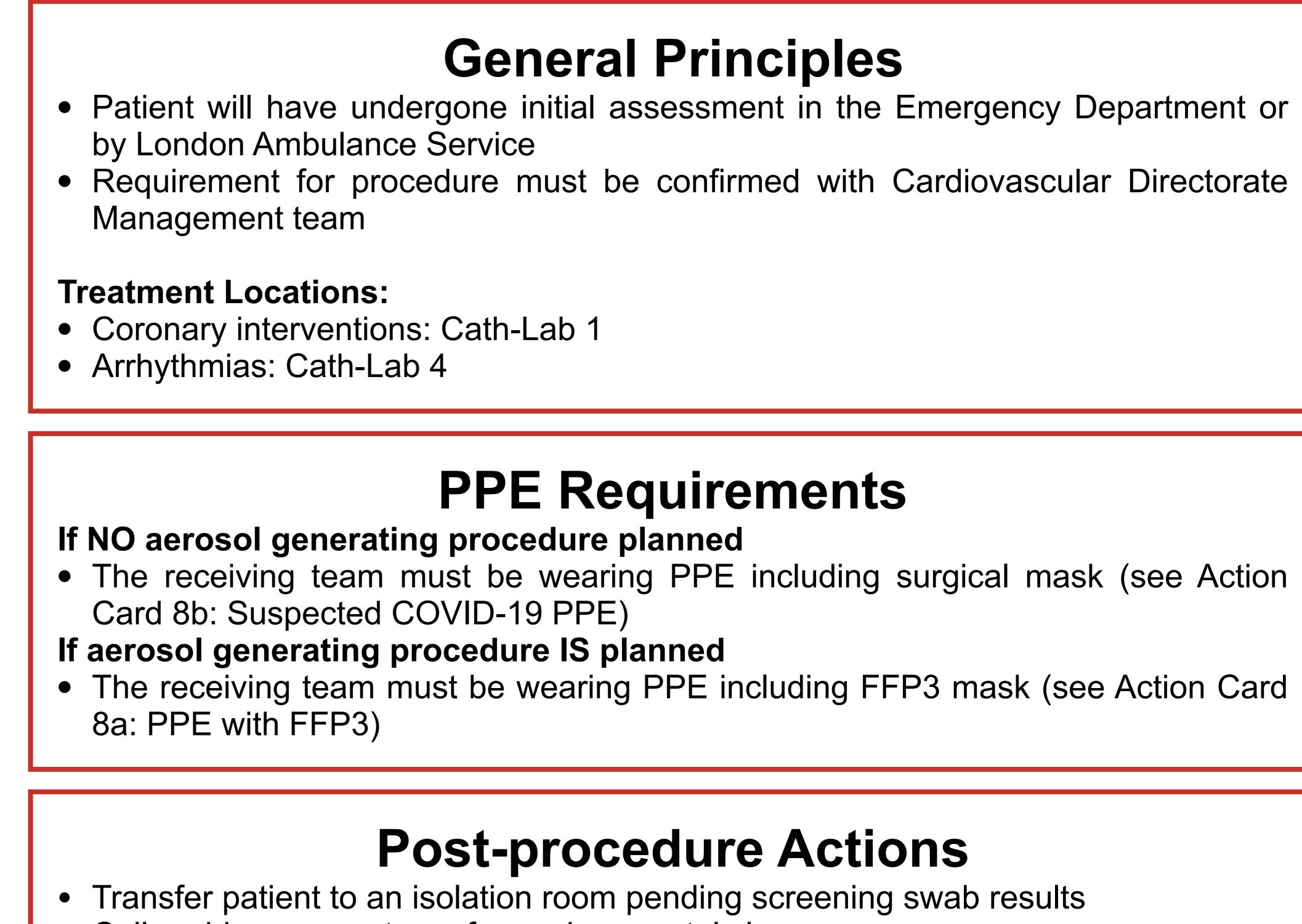
T4-4: Internal transfer of a patient with suspected

## *h* FFP3 or Action Card 8b: PPE for suspected COVID-19)

ications to usual practice during the procedure

reening

h FFP3 or Action Card 8b: PPE for suspected COVID-19)



Call rapid response team for environmental clean 



# Action Card (v1-0) **T2-1: Donning PPE for a COVID-19 patient in theatre**

# **Objective:** Safe donning of PPE for a COVID+ confirmed or suspected patient requiring aerosol generating procedure(s) in theatre (see T1-1: Aerosol Generating Procedures)

	Prepa In Cle
1	Prepare a 'buddy' to assist donning
2	Prepare PPE per <i>PPE equipment list</i>
3	Remove personal items e.g. ID badge
4	Don theatre shoes
6	Check if X-Ray required and don a le
6	Don gown
	Do not tie the inside tie of the gown
7	Remove glasses if worn
8	Don FFP3 mask
	Put on glasses if worn
	Check arms of glasses are on top of
9	Put on theatre hat
10	Put on face shield
11	Put on non-sterile gloves
	Tuck gown cuffs under gloves
	Put on sterile gloves if required for particular provide the steril of the steril o
	Apply two strips of duct tape around
12	Check PPE with buddy
	Gloves covering cuffs
	Mask correctly applied
	Face covered by face-shield
	Gown closed behind

## aration

EAN ROOM

ge, mobile phone, keys, pens

ead apron under PPE if needed

f mask straps

<sup>r</sup> procedure

nd the end of your gloves

# **PPE Equipment List**

### **Equipment:**

- Long-sleeved waterproof gown
- Fit-tested FFP3 mask  $\bullet$
- Non-sterile gloves
- Sterile gloves (if required for procedure)  $\bullet$
- Face shield
- Four strips of duct tape  $\bullet$
- Theatre cap
- Theatre shoes (NOT personal footwear)
- A lead apron is required if X-Ray is required during the case

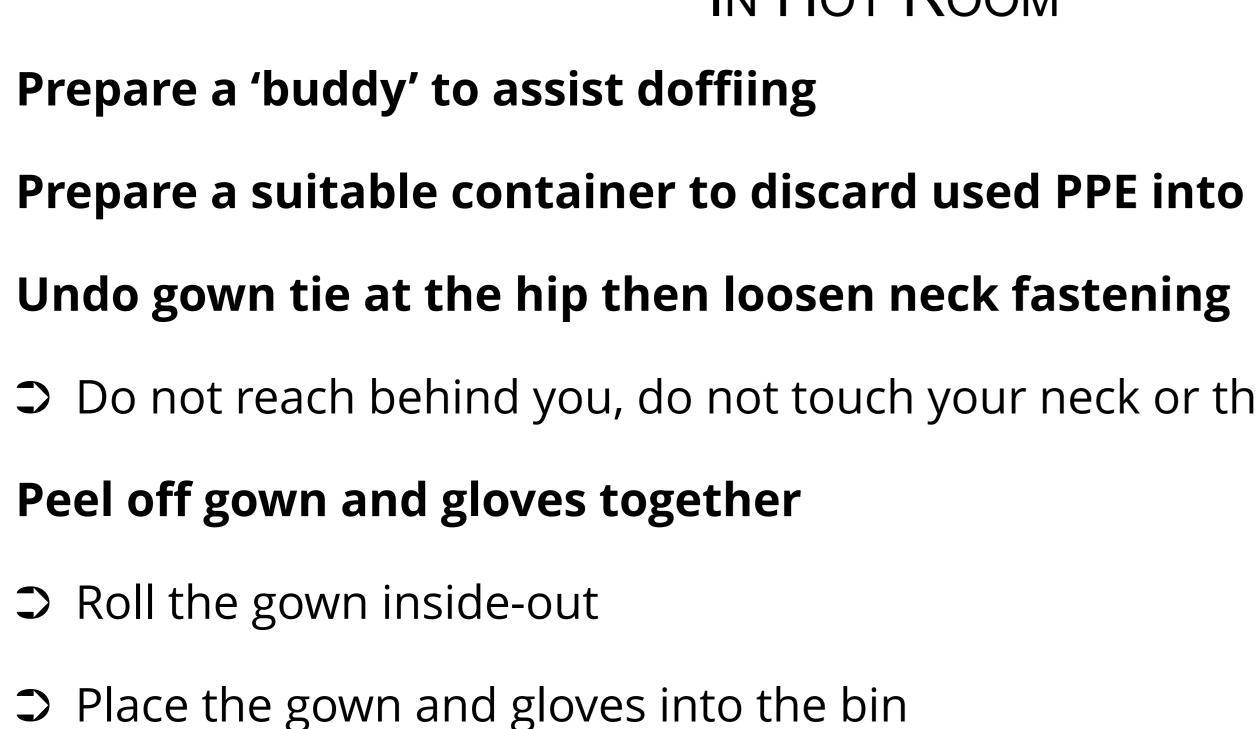


# Action Card (v1-0) **T2-2: Doffing PPE for a COVID-19 patient in theatre**

# **Objective:** Safe doffing of PPE for a COVID+ confirmed or suspected patient after operative intervention in theatre



(4)





Perform hand hygiene with alcohol gel Move to warm room

> Second stage IN WARM ROOM



Perform hand hygiene with alcohol gel Prepare a suitable container to discard used PPE into Remove face shield by grasping the strap behind your head **Remove theatre hat** 

Request buddy to remove your glasses if worn Buddy must be wearing gloves

Suddy must clean the glasses with an alcohol wipe



**Remove mask** Buddy may put your clean glasses back on Step out of your hot-room shoes into a clear pair



Perform hand-hygiene to the elbows

# First stage

IN HOT ROOM

Do not reach behind you, do not touch your neck or the inside of the gown

# **Doffing Principles**

- Brief with your buddy before starting the process
- Allow enough time to remove equipment and do not rush
- $\bullet$
- Do not stuff contaminated materials into the bin
- and perform meticulous hand hygiene
- Consider a 'Hibiscrub' shower after doffing



Discard contaminated single-use equipment straight into an appropriate bin If there are any doubts about contamination during doffing check with your buddy

# Action Card (v1-1) T3-1: Preparation for intubation of a COVID-19 patient

## **Objective:** Preparation of equipment and staff for intubation of a suspected COVID-19 patient. To be used in conjunction with **T2-1: Donning Personal Protective Equipment for a COVID-19 patient in theatre**

	Pre-in In Cle
1	Assemble team in clean room
	Perform team introductions
	Three hot-room team roles: intubat
	Clean-room team roles: runner/dor
2	Prepare for intubation
	Request COVID airway supplies trol
	Check intubation equipment list
	Prepare airway equipment and reso
	Assemble breathing system prior to
	Plan for airway difficulty and brief to
3	Check for patient allergies
4	Remove personal items e.g. mobile
6	Don and check PPE equipment
6	Move to hot room
	Take ONLY the metal trolley into the
	Any additional equipment will be have

## tubation EAN ROOM

itor, airway assistant, drug administration/monitoring nning buddy

lley

scue devices on a metal trolley

o intubation

team (see T3-2: Intubation of a COVID-19 patient)

## phone, ID badge, keys from pockets

le hot room nanded through by the runner

# Intubation Equipment List

### Intubation Equipment:

- Appropriately sized tracheal tube with subglottic suction
- Airtrag and screen or I-view videolaryngoscope
- Direct laryngoscope
- Bougie and stylet
- Tube tie
- Syringe
- Cuff manometer

### **Breathing Circuit:**

- DO NOT USE High Flow Nasal Oxygenation
- Inline suction system
- Tracheal tube clamp
- Mainstream capnograph preferred; side stream on clean-side if no alternative
- If anaesthetic machine is being used:
- HME filters at both patient and machine ends of circuit
- available
- DO NOT use a Waters Circuit
- If no anaesthetic machine is available:

  - possible

### **Drugs and IV access:**

- Induction drugs for RSI
- Emergency drugs e.g. vasopressors
- Maintenance drugs and equipment e.g. propofol and pumps
- IV cannula, dressing, tourniquet with spares immediately available in clean room

### **Rescue Devices:**

- Alternative supraglottic airways in a range of sizes
- Prepare an Aintree Intubating Catheter, an Ambu-scope Slim and a monitor in the clean room, but do not take it in to the hot room until needed at *Plan B:* Secondary Intubation
- Marker pen
- Emergency front of neck airway kit (scalpel, bougie, tube)



DO NOT USE side-stream gas analyser where mainstream capnograph

Waters Circuit with HME filter between patient and APL will be necessary Place HME filters at the patient end of the circuit, and at the ventilator if

# Action Card (v1-1) T3-2: Intubation of a COVID-19 patient

# **Objective:** Intubation of a suspected COVID-19 patient minimising risk to staff. Only essential staff should enter the room with the patient. To be used in conjunction with T2-1: Donning Personal Protective Equipment for a COVID-19 patient in theatre

	Intu In Ho
1	<b>Receive patient on trolley</b>
	Check HME filters at both ends of br
	Check patient positioning, monitoring
	Check landmarks for front of neck a
2	Check IV access adequate and funct
3	Pre-oxygenate for at least 5 minutes
	Consider 5cmH <sub>2</sub> O PEEP
4	Apply cricoid pressure if appropriate
	if hypoxia low pressure/low volume
6	Turn oxygen off before removing ma
	Perform Plan A: Primary intubation
6	If intubation successful:
	Perform post-intubation actions
7	If laryngoscopy difficult:
	Insert iGel and ventilate
	Perform Plan B: Secondary Intubation
	If successful perform post-intubatior
8	If cannot ventilate via iGel:
	Perform Plan C: Mask ventilation
9	lf cannot mask ventilate:
	Perform Plan D: Front of neck airway
	Perform post-intubation actions

# bation

OT ROOM

preathing circuit and Yankauer sucker available

ing, and room ergonomics are suitable for intubation

airway and mark cricothyroid membrane

## tional then connect IV fluids

es with tight seal on mask

## te, then give RSI drugs

mask ventilation (two handed technique)

ask

)n

on actions

# **Airway Plans**

### **Plan A: Primary Intubation**

- Laryngoscopy with Airtraq and screen or I-view videolaryngoscope preferred
- Direct laryngoscopy if this is the most familiar technique

## **Plan B: Secondary Intubation**

- Request Ambu-scope Slim and Aintree Intubating Catheter from clean room:
- Load Aintree Intubating Catheter on to Ambu-scope
- Insert Aintree Intubating Catheter via iGel using Ambu-scope
- Intubate over Aintree Intubating Catheter
- Remove Aintree Intubating Catheter

## Plan C: Mask Ventilation

- Low pressure/low volume mask ventilation
- Two-handed technique to maintain seal

## Plan D: Front of Neck Airway

- Scalpel (size 10 blade)
- Bougie
- Size 6.0 tracheal tube

# **Post-intubation Actions**

- Connect breathing circuit HME, inline suction, and mainstream capnograph
- Inflate cuff BEFORE ventilation
- Turn oxygen on
- Confirm capnography
- Secure tracheal tube with tie and note tube depth
- Start sedation/anaesthesia
- pressure to minimise leak
- detaching, and leave the filter on the patient side
- Clean anaesthetic machine and breathing circuit with 'Clinell' wipe
- Clean patient's face, neck, hair, and hands with soap and water
- DO NOT LEAVE HOT ROOM until 20 minutes have elapsed post-intubation
- Consider inserting NG tube and/or central venous access



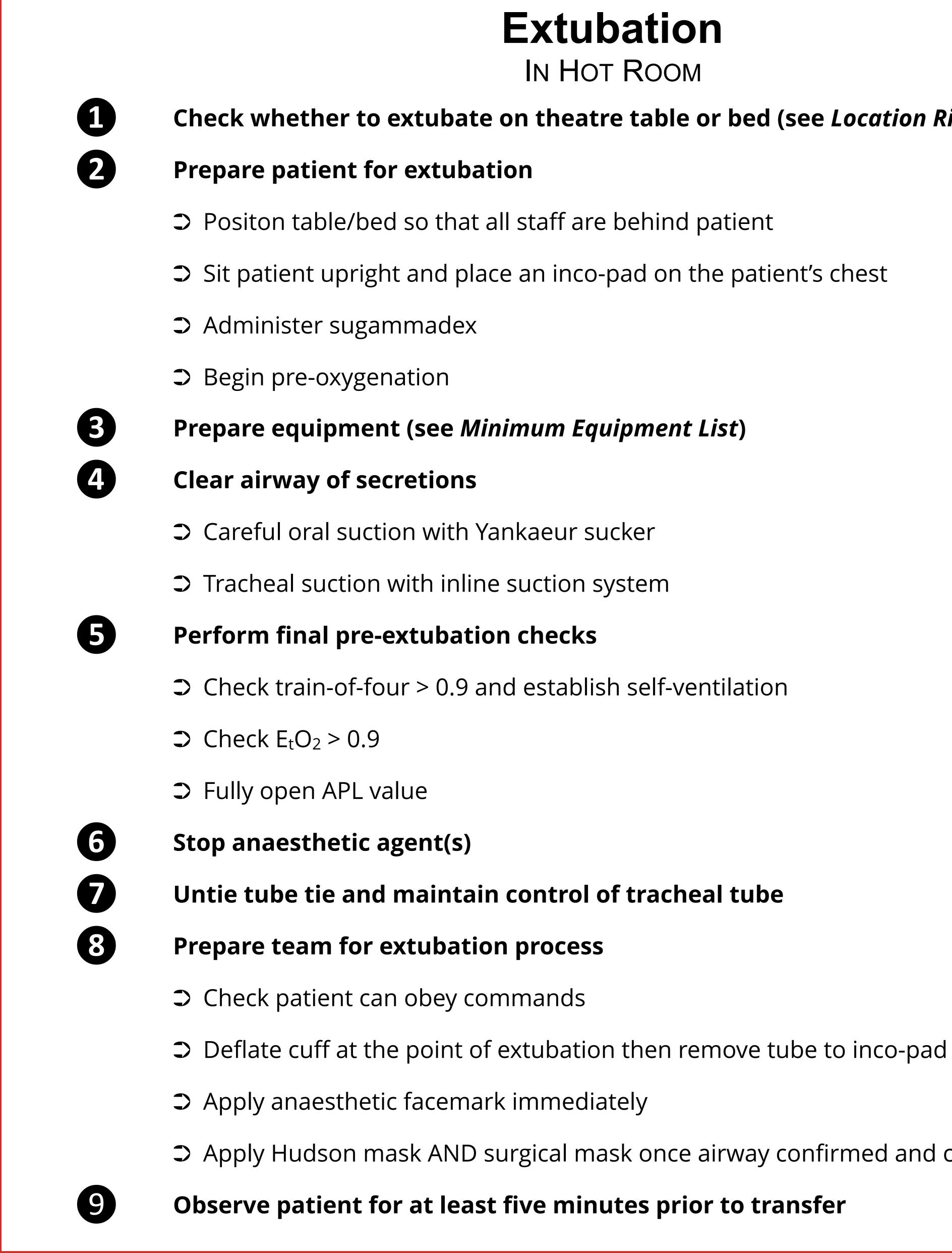
Remove Ambu-scope and iGel; leave Aintree Intubating Catheter in trachea

Check tracheal tube cuff pressure; must be at least 5cmH<sub>2</sub>O above inspiratory

If the circuit must be disconnected occlude the tracheal tube with a clamp before

# Action Card (v1-0) T3-3: Extubation of a COVID-19 patient

# **Objective:** Extubation of a suspected COVID-19 patient whilst minimising aersolisation of virus particles. Only those essential to care should be present. PPE required per T2-1: Donning Personal Protective Equipment for a COVID-19 patient in theatre



# Extubation

IN HOT ROOM

Check whether to extubate on theatre table or bed (see *Location Risk Assessment*)

Apply Hudson mask AND surgical mask once airway confirmed and coughing subsided

# Location Risk Assessment

## **Consideration must be given to extubation on theatre table or bed**

- coughing.
- taken to avoid accidental disconnection or extubation during the transfer.

## Minimum Equipment List

- Oropharyngeal airway
- Anaesthetic facemask
- Hudson mask
- Surgical facemask
- iGel
- Yankaeur sucker
- Syringe to deflate tube cuff
- Intubation equipment for emergency use



extubating on theatre table then a transfer post-extubation will be required. Take care to maintain distance from the airway when this happens. It may be appropriate to keep the patient sitting upright on the theatre table for a longer period than normal to ensure the airway is clear and there will be no further

If extubating on bed then a transfer prior to extubation will be required. If the patient is already self-ventilating then it will not be possible to clamp the tube and disconnect the breathing circuit during the transfer. Extra care MUST be

# Action Card (v1-0) T3-4: Scrub preparation for surgery in a paediatric COVID-19 patient

# **Objective:** Preparation of equipment and staff for operative intervention in a COVID-19 patient. To be used in conjunction with **T2-1: Donning PPE for a COVID-19 patient in theatre**

1	Prepare team before sending for pa
	Check PPE requirements with all tea
	Perform WHO team brief
	Assign scrub team roles (see Scrub)
	Check infection control notices have
	Check sufficient PPE is available in F
	Prepare PPE in anaesthetic room
	Check which surgical kits are neede
2	Prepare surgical kits and equipmen
	Prepare only kits that were specified
	Sits that may (but not certainly) be
8	Remove personal items e.g. mobile
4	Check if X-Ray will be required for c
	Don a lead gown if required
6	Don and check PPE equipment (see
	Do NOT enter theatre until signalled

## atient

am members (see *General Princinples*)

### Team Roles)

ve been placed on theatre doors

REEF theatres

ed

### it in preparation area as usual

ed at briefing

required can be left in the anaesthetic room

### phone, ID badge, keys from pockets

case

## E2-1: Donning PPE for a COVID-19 Patient)

ed by anaesthetic team

# **Scrub Team Roles**

### Hot room:

- Scrub nurse
- Runner

### **Clearn Room:**

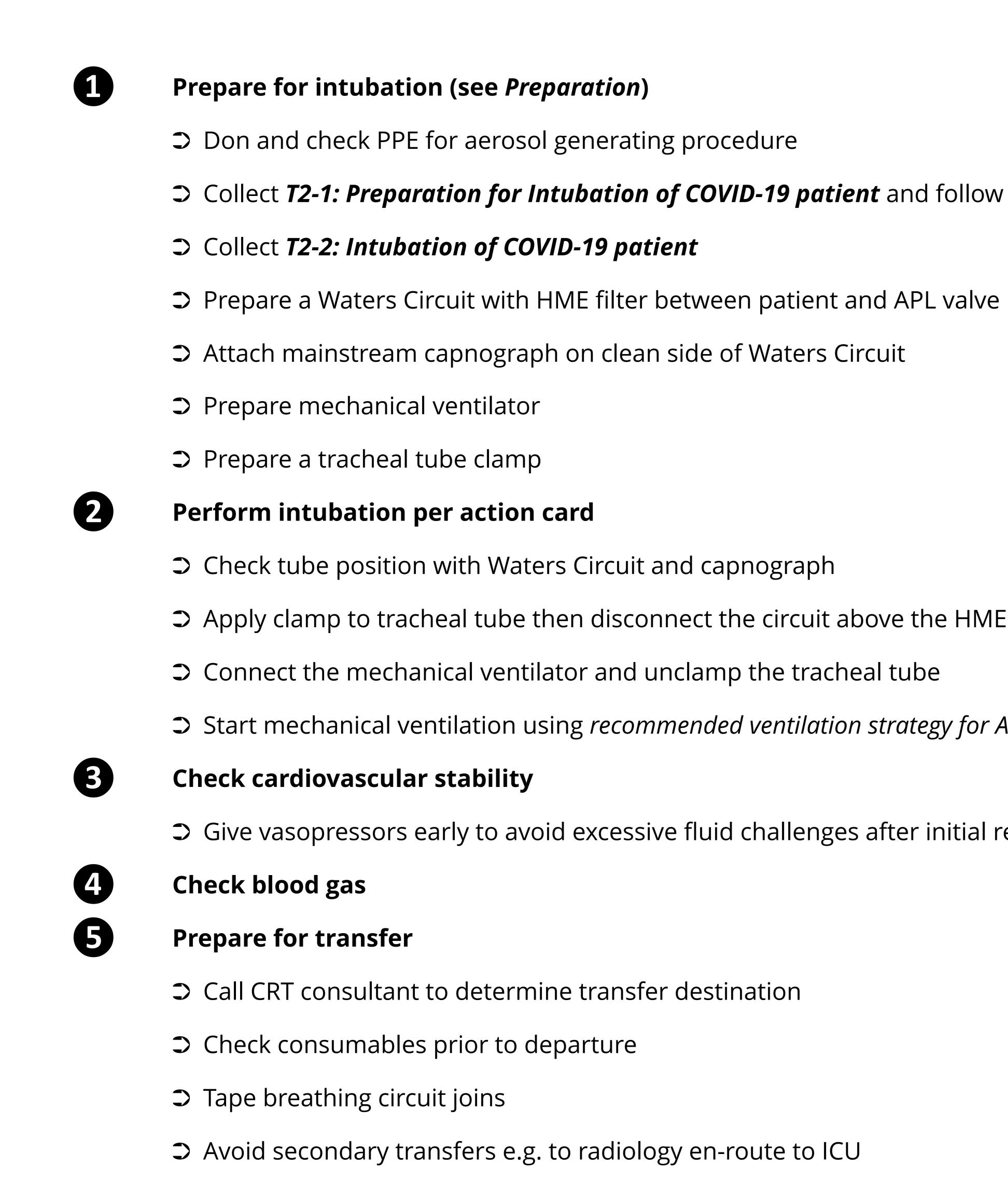
- PPE buddy
- Runner
- PPE for surgical team:
  - 20 minutes of intubation FFP3 PPE must be worn
  - be worn



• If AGP (see T1-1: Aerosol Generating Procedures) or if required to enter within • If no AGP and can wait 20 minutes, gown, gloves, and surgical facemask must

# Action Card (v1-1) T3-5: MErIT Team Procedures

## **Objective:** Airway management, ventilation, and transfer of a COVID-19 patient. To be used in conjunction with PPE guidelines (**Action Card**) 8a: PPE with FFP3 Mask/T2-1: Donning PPE in Theatre), T3-1: Preparation for intubation, and T3-2: Intubation of a COVID-19 patient



Collect **T2-1:** Preparation for Intubation of COVID-19 patient and follow steps

→ Apply clamp to tracheal tube then disconnect the circuit above the HME filter

Start mechanical ventilation using *recommended ventilation strategy for ARDS* 

➔ Give vasopressors early to avoid excessive fluid challenges after initial resuscitation phase

## Preparation

- Essential team members in room only
- Intubation in ED should take place in Resus 3 if possible, as this is a negative pressure room
  - this is also a negative pressure room
- The MErIT team have the final say in the location of intubation if difficulty is predicted
  - unsuitable

## **Recommended Ventilation Strategy for ARDS**

- Pressure controlled ventilation (BIPAP)
- $Pinsp \leq 30 cmH_2O$
- $PEEP \ge 10 \text{ cmH}_2\text{O}$
- Driving pressure (Pinsp PEEP)  $\leq 15$  cmH<sub>2</sub>O
- Tidal volume 6ml/kg ideal body weight
- Allow permissive hypercapnia

### **Target Values**

- $SpO_2 > 90\%$
- pH > 7.2 lacksquare

### Ideal Body Weight Formula

- Male:  $50 + (0.91 \times [height in cm 152.4])$
- Female:  $45.5 + (0.91 \times [height in cm 152.4])$

difficulty achieving target values early discussion with CRT consultant for I† escalation to SRF or ECMO teams



• Intubation is an aerosol generating procedure, so PPE with an FFP3 mask is required for all known or suspected COVID-19 patients per Action Card 8a: PPE with FFP3 facemask (or Action Card 8c: Failed fit testing - PPE if required)

ED patients with respiratory symptoms will generally be cohort in Majors 3 as

• Aim to minimise transfers by moving directly to ICU for intubation if ED is

# Action Card (v1-0) T4-1: Internal ward-to-ward transfer of a patient with confirmed COVID-19

# **Objective:** Safe transfer of a patient with confirmed COVID-19, minimising risk to the patient, staff, and the hospital environment.

1	Check with clinical team that transf
2	Call destination ward to ensure they
	Agree arrival time window with rece
	Inform the receiving team how the p
3	Call SNP to co-ordinate assisting tea
4	Check assisting teams ready for trar
6	Prepare staff to accompany patient
	Staff require PPE including FFP3 ma
	Place patient notes in a sealed plast
6	Don PPE (see Action Card 8a: PPE with
7	Prepare for departure
	Apply surgical mask to patient
	Collect patient notes in a sealed bag
	Check consumables e.g. oxygen sup
8	Perform transfer of patient
	Senior nurse or security person to v
	If any spills occur, one member of te
9	Perform Actions on Arrival
10	Doff PPE (see Action Card 8a: PPE with

## fer is essential

### y are ready to receive

eiving team

patient will be moved (bed, trolley, chair)

### ams

## nsfer

ask

tic bag for collection by transfer team

## h FFP3)

pplies, pump batteries, monitoring

walk 2m ahead of patient

team must remain with spill and alert SNP

h FFP3)

# **Actions on Arrival**

- The receiving team must be wearing PPE including FFP3 mask (see Action Card 8a: PPE with FFP3)
- if the patient has been transferred on a bed, leave them on this bed
- from ward
  - Cleaning team must be wearing single-layer PPE

SNP: 1165  $\bullet$ 

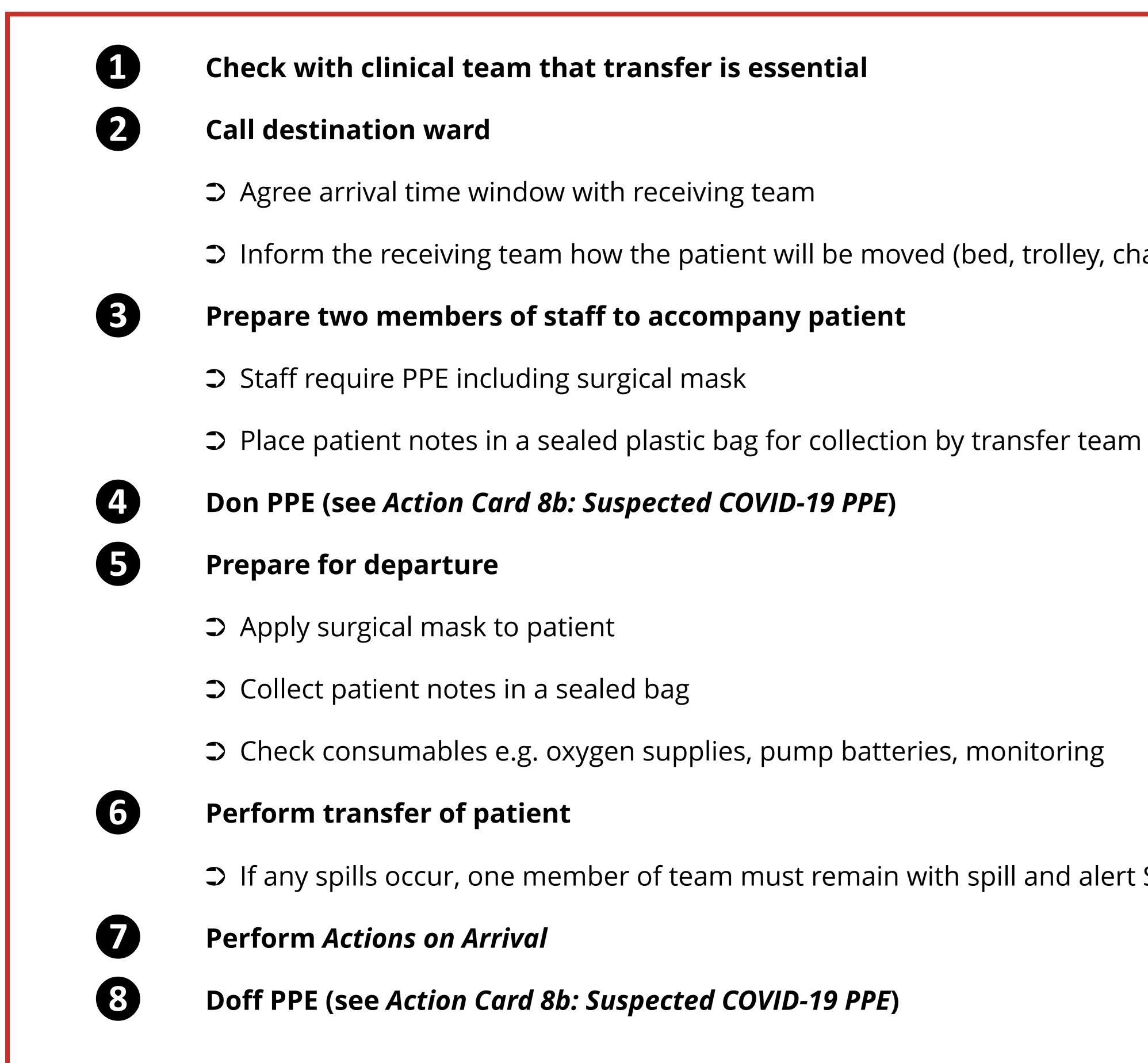


• If the patient has been transferred on a trolley or chair, this must be decontaminated using Clinell wipes THEN 1% hypochlorite wipes prior to removal

## **Useful Contacts**

# Action Card (v1-0) T4-2: Internal ward-to-ward transfer of a patient with suspected COVID-19

# **Objective:** Safe transfer of a patient with suspected COVID-19, minimising risk to the patient, staff, and the hospital environment.



⇒ Inform the receiving team how the patient will be moved (bed, trolley, chair)

➔ If any spills occur, one member of team must remain with spill and alert SNP

# **Actions on Arrival**

- The receiving team must be wearing PPE including surgical mask (see Action Card 8b: Suspected COVID-19 PPE)
- Bed, trolley or chair must be decontaminated using Clinell wipes THEN 1% hypochlorite wipes prior to removal from ward • Cleaning team must be wearing single-layer PPE

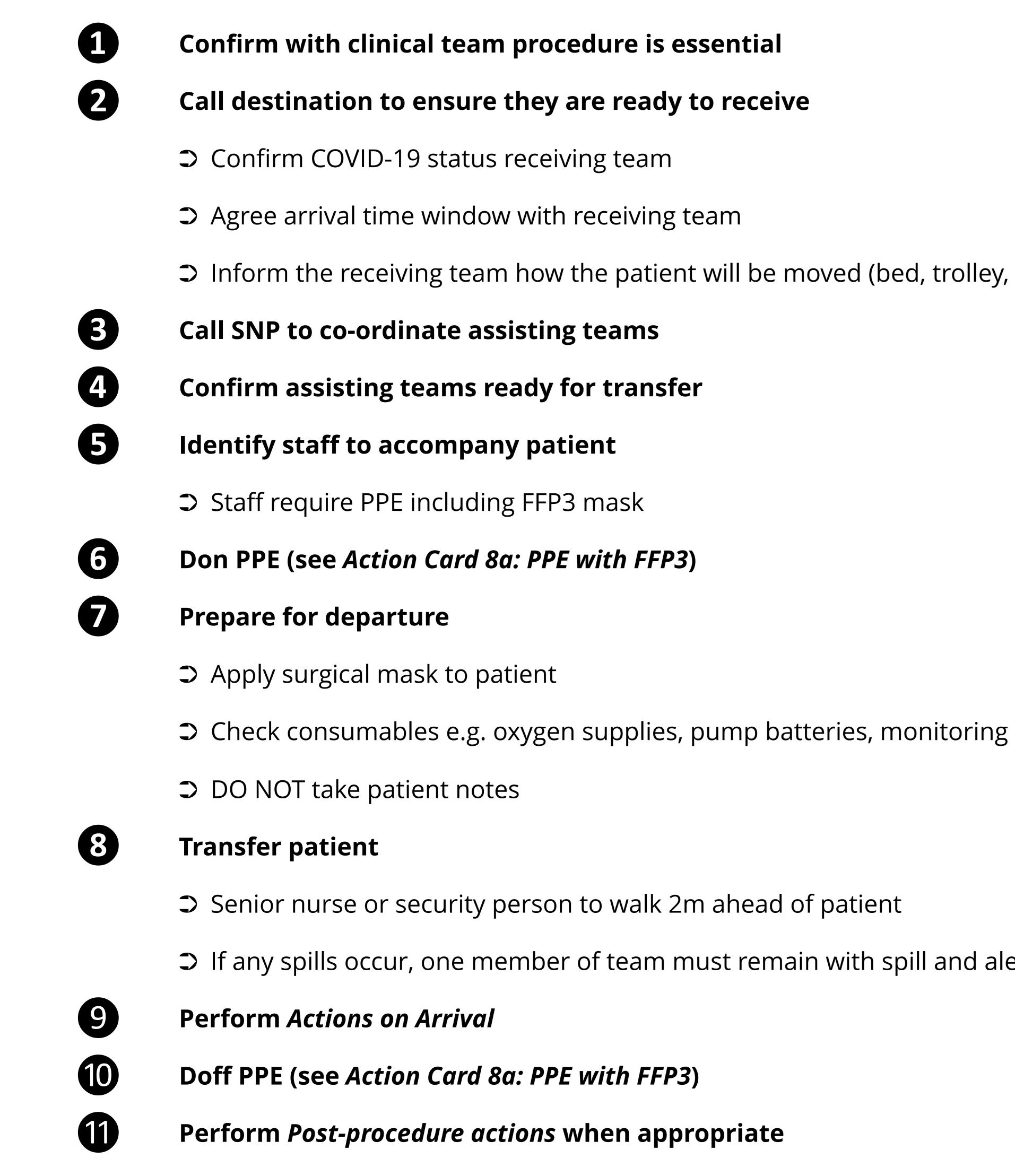
## **Useful Contacts**

SNP: 1165 



# Action Card (v1-0) T4-3: Internal transfer of a patient with confirmed COVID-19 for a procedure

## **Objective:** Safe transfer of a patient with confirmed COVID-19, minimising risk to the patient, staff, and the hospital environment.



⇒ Inform the receiving team how the patient will be moved (bed, trolley, chair)

➔ If any spills occur, one member of team must remain with spill and alert SNP

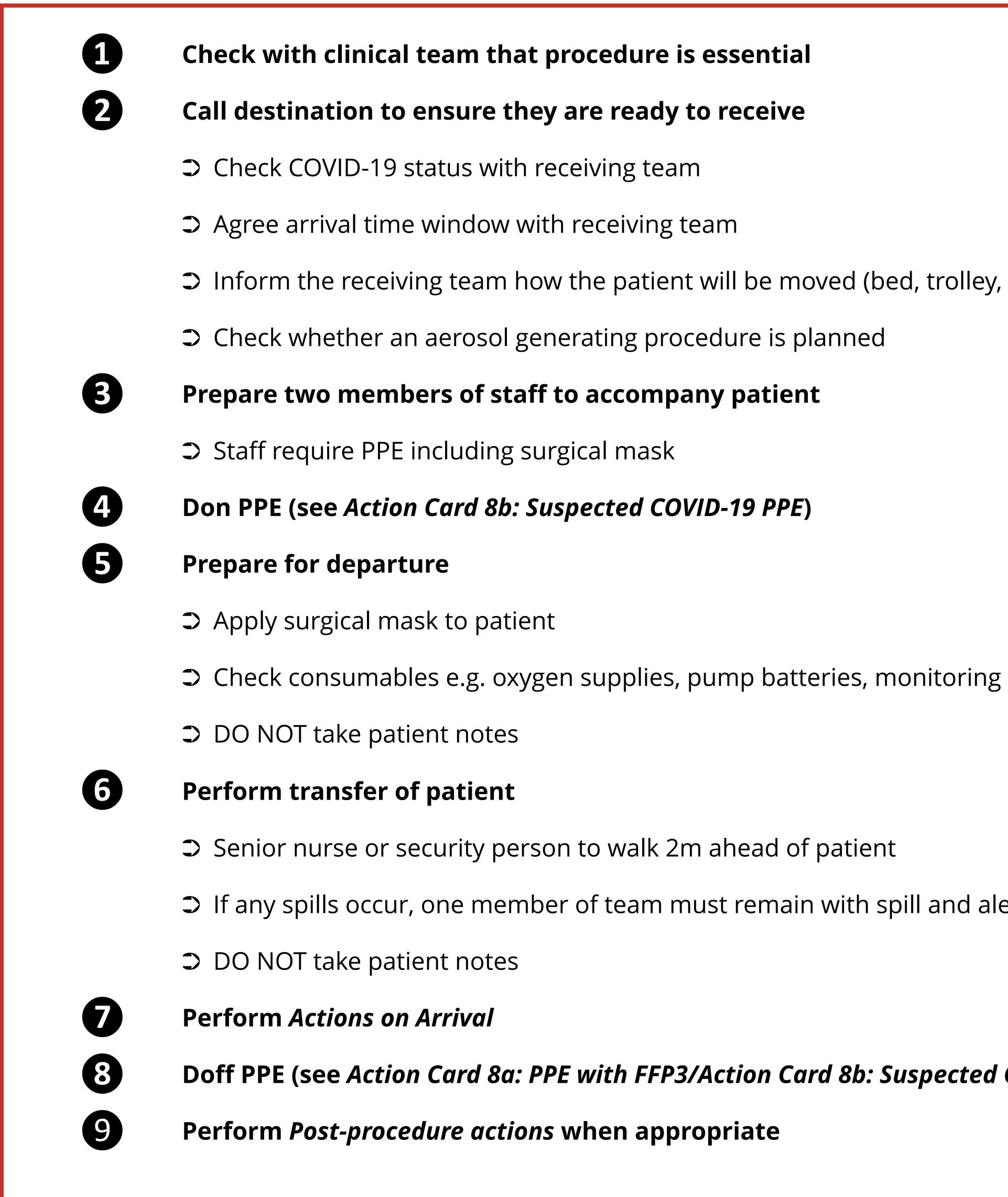
## **General Principles** If transferring for imaging, patient MUST be able to transfer in chair • If unable, contact radiology to request portable X-Ray See T4-5: Portable Imaging for a patient with suspected or confirmed COVID-19) • The patient MUST NOT be left in a waiting room with other patients • The patient should be transferred directly into the procedure room The patient must return to the ward immediately on completion of the procedure • DO NOT take patient notes Actions on Arrival • The receiving team must be wearing PPE including FFP3 mask (see Action Card 8a: PPE with FFP3) **Post-procedure Actions** • Clean all surfaces in contact with the patient using Clinell wipes THEN 1% hypochlorite wipes prior to removal from ward • Cleaning team must be wearing single-layer PPE • If in theatres/endoscopy, call rapid response team for environmental clean **Useful Contacts**

SNP: 1165



# Action Card (v1-0) T4-4: Internal transfer of a patient with suspected COVID-19 for a procedure

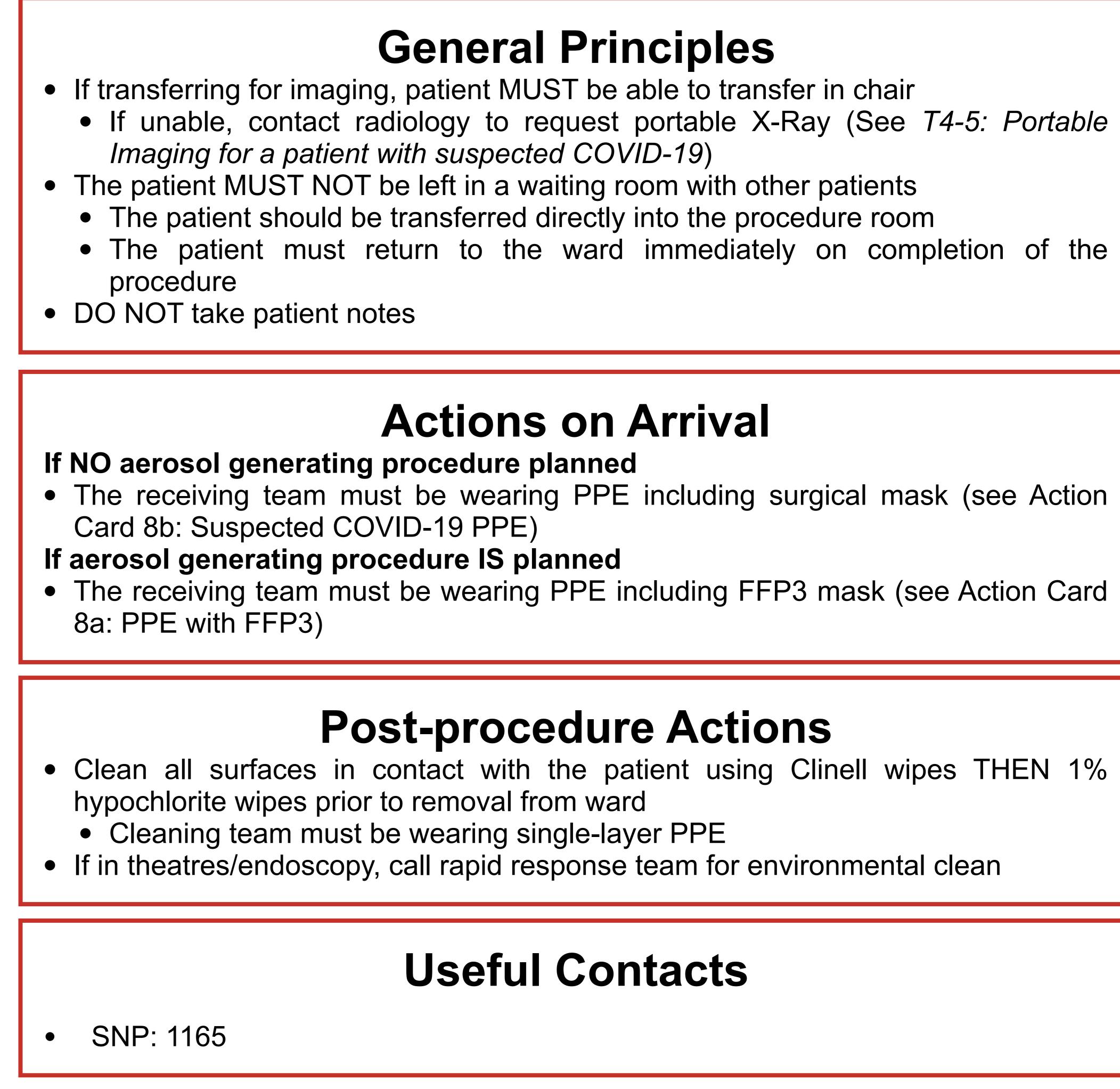
## **Objective:** Safe transfer of a patient with confirmed COVID-19, minimising risk to the patient, staff, and the hospital environment.



- ⇒ Inform the receiving team how the patient will be moved (bed, trolley, chair)

- ➔ If any spills occur, one member of team must remain with spill and alert SNP

## Doff PPE (see Action Card 8a: PPE with FFP3/Action Card 8b: Suspected COVID-19 PPE)





• If unable, contact radiology to request portable X-Ray (See T4-5: Portable • The patient must return to the ward immediately on completion of the

# Action Card (v1-0) T4-5: Portable imaging for a suspected or confirmed COVID-19 patient

## **Objective:** Safe use of portable imaging for suspected or confirmed.

1	Check with clinical team that imagi
2	Check that patient is unable to be t
3	Call radiographer on-call
	Notify of COVID-19 status
	Agree time window to perform the i
4	Prepare an assistant and a receiver
6	Don X-Ray gown
6	Don PPE over X-Ray gown (see <i>Actior</i> <i>COVID-19 PPE</i> )
7	Perform X-Ray using an AMX machin
	No cassette covers are required
8	Perform Post-procedure actions
9	Assistant to pass decontaminated c
10	Radiographer to doff PPE (see Action COVID-19 PPE)
11	Assistant to doff PPE (see Action Car COVID-19 PPE)

ing is essential

transferred to X-Ray in chair

imaging

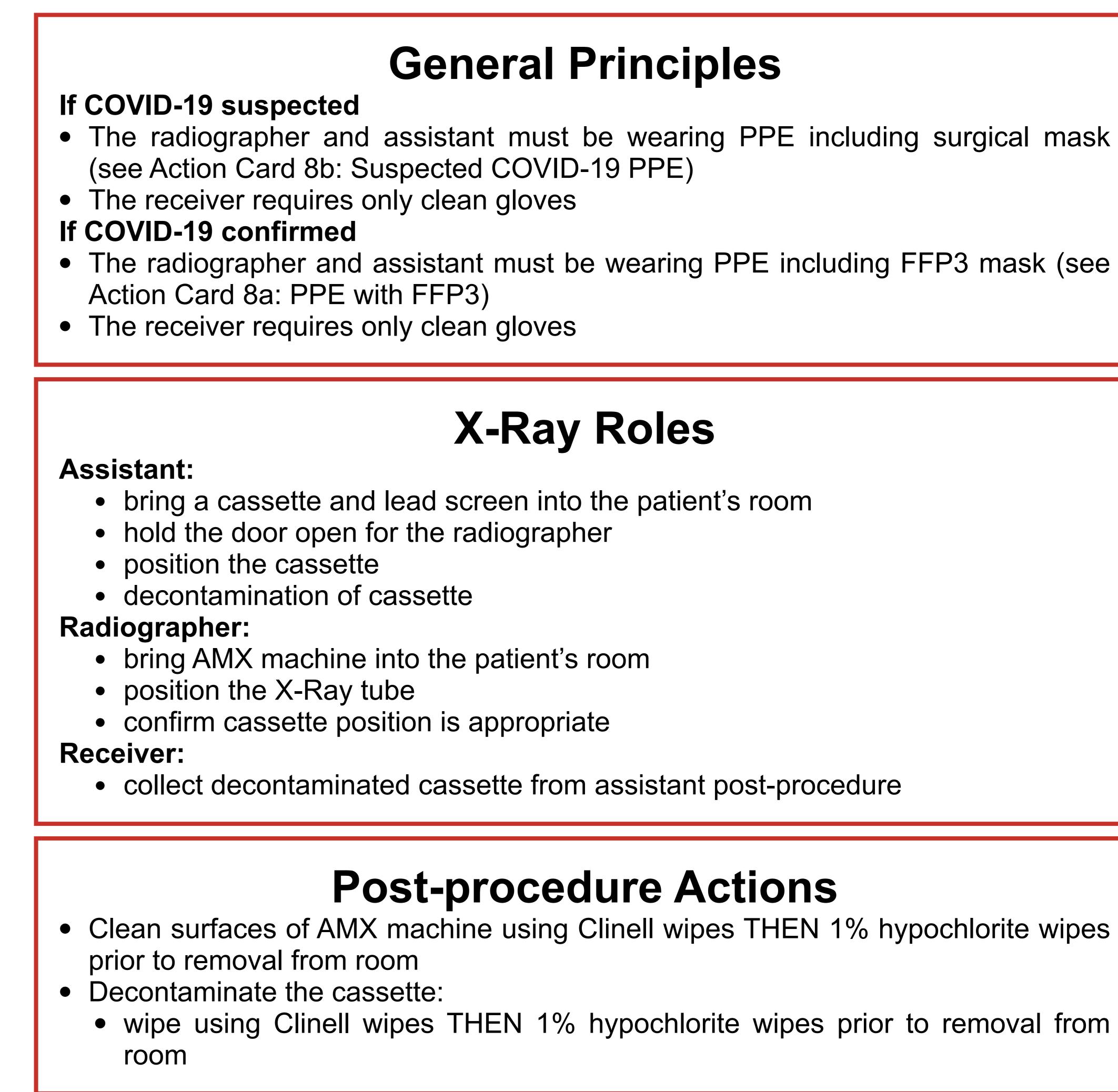
(see X-Ray roles)

on Card 8a: PPE with FFP3 or Action Card 8b: Suspected

ine (see X-Ray roles)

cassette to receiver on Card 8a: PPE with FFP3/Action Card 8b: Suspected

rd 8a: PPE with FFP3/Action Card 8b: Suspected

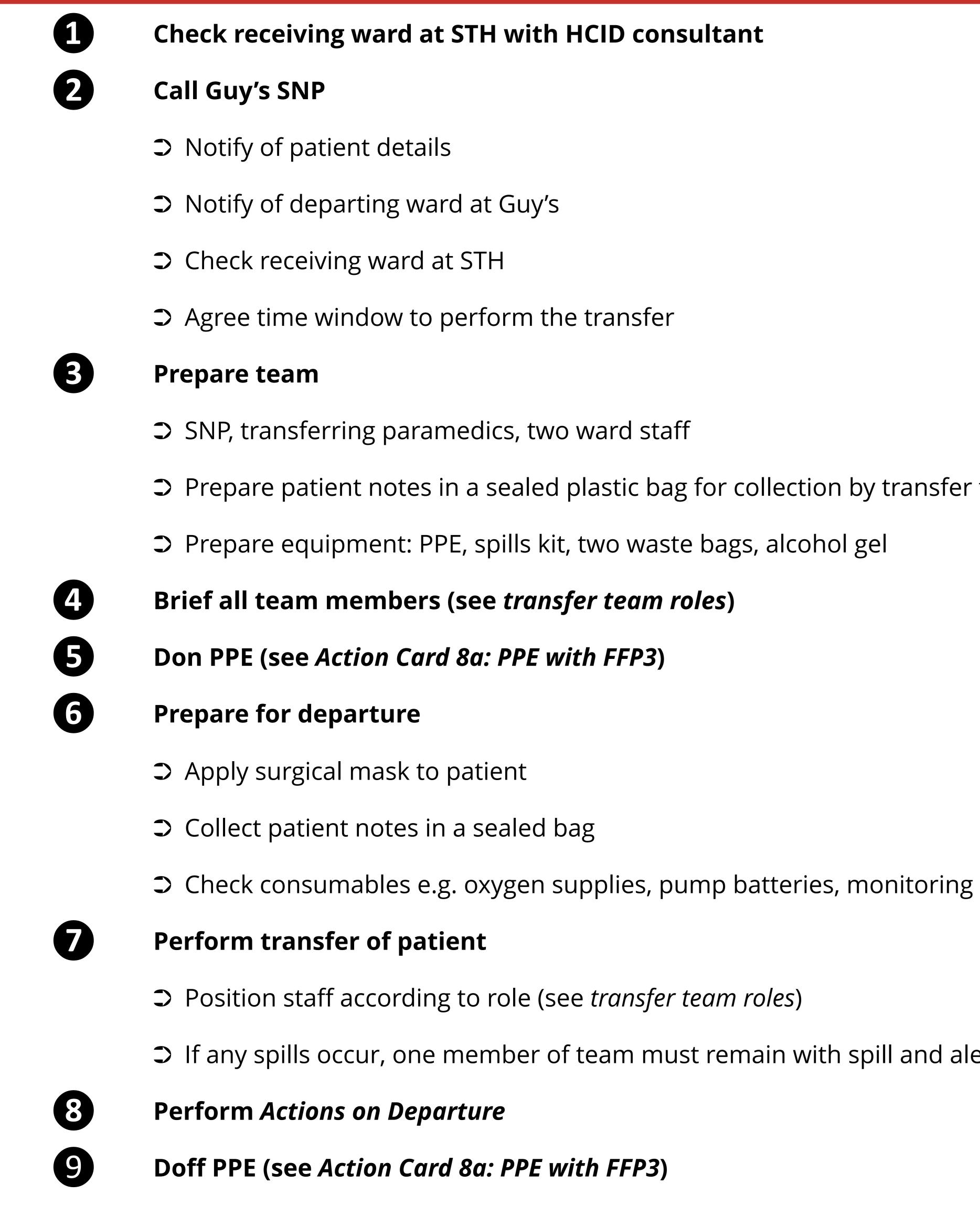




• wipe using Clinell wipes THEN 1% hypochlorite wipes prior to removal from

# Action Card (v1-0) T4-6: Internal Guy's to St Thomas' transfer of a patient with confirmed COVID-19

## **Objective:** Safe transfer of a non-ICU patient with confirmed COVID-19, minimising risk to the patient, staff, and the hospital environment. This process is activated after discussion between the patient's clinical team and the HCID consultant.



Prepare patient notes in a sealed plastic bag for collection by transfer team

➔ If any spills occur, one member of team must remain with spill and alert SNP

## **General Principles** • The transferring ambulance will wait in the Guy's car park, while the crew will attend the ward then don PPE **Transfer team roles** SNP: • Call BEARS and arrange an ambulance crewed by PPE-trained team • Provide spills kit to ward staff • Follow transfer at distance of at least two metres • Carry waste bags, alcohol gel Safe disposal of waste bags post-transfer **Paramedics**: • Load patient into ambulance • Perform transfer to STH Ward staff 1: • Carry spills kit during transfer • Observe patient Ward staff 2: • Walk two metres ahead of patient • Guide team along agreed route • Open doors

## **Actions on Departure**

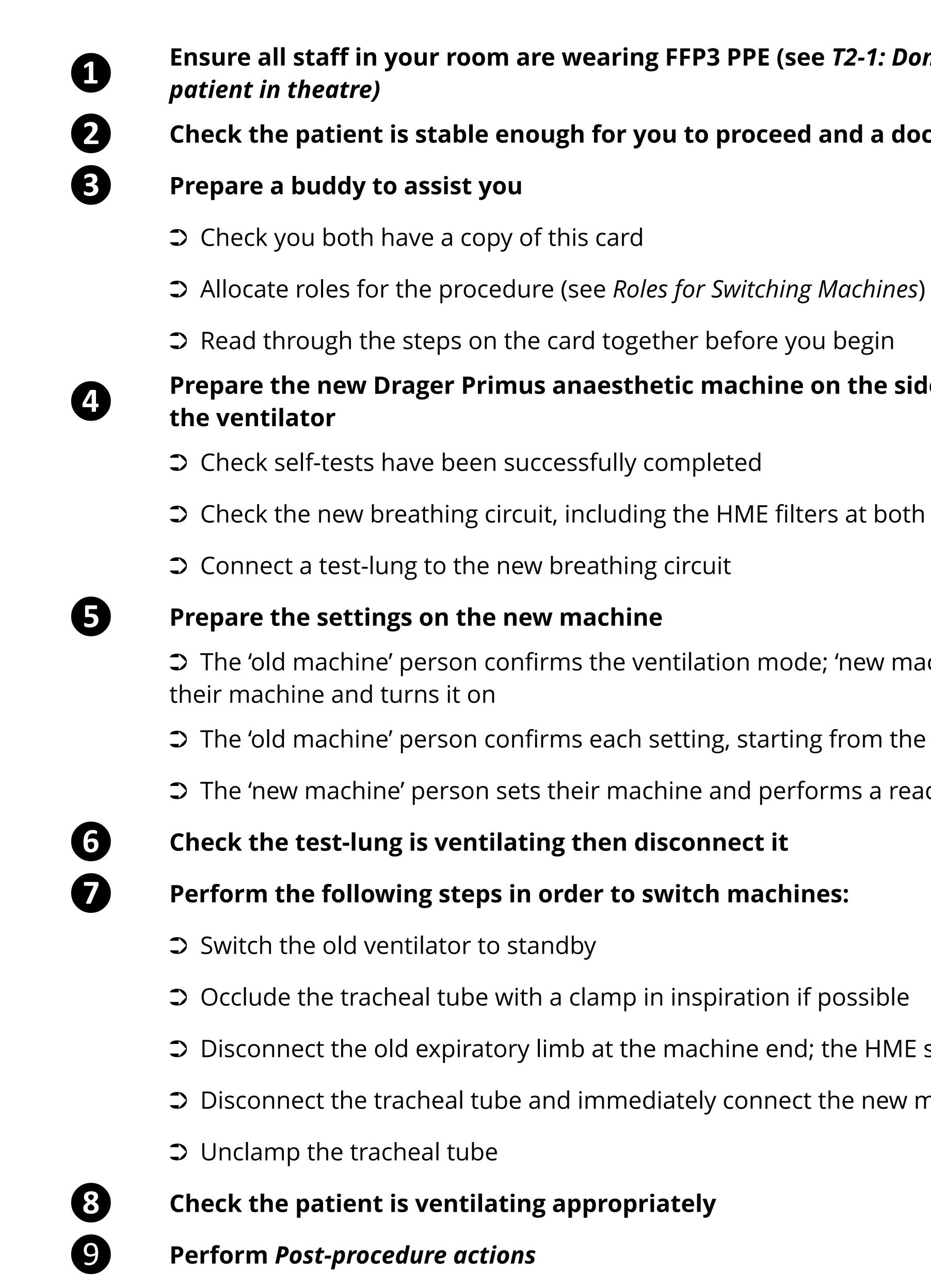
- Guy's SNP to call STH SNP and confirm departure
- Place waste bags in safe position for doffing process
- Environmental cleaning)



• Ward staff to confirm decontamination of patient room (see Action Card 9:

# Action Card (v1-1) T5-2: Daily checks and maintenance for a Drager anaesthetic machine

## **Objective:** Drager Primus anaesthetic machines require a daily check to ensure it functions correctly. The patient must be switched to a new ventilator. This process requires two people in FFP3 PPE, as it is potentially aerosol generating.



## Ensure all staff in your room are wearing FFP3 PPE (see T2-1: Donning PPE for a COVID-19

## Check the patient is stable enough for you to proceed and a doctor is available

## Prepare the new Drager Primus anaesthetic machine on the side of the bed opposite

Check the new breathing circuit, including the HME filters at both patient and machine end

The 'old machine' person confirms the ventilation mode; 'new machine' person selects on

 $\bigcirc$  The 'old machine' person confirms each setting, starting from the left with O<sub>2</sub>

The 'new machine' person sets their machine and performs a read-back after every value

Disconnect the old expiratory limb at the machine end; the HME stays on the CIRCUIT

Disconnect the tracheal tube and immediately connect the new machine circuit

# **Roles for Switching Machines**

## Old machine role:

- Collect a new CO<sub>2</sub> absorber canister
- Collect paper towels
- Collect Clinell wipes
- Collect a waste bag and ties
- Stand by the old ventilator to which the patient is already connected
- You will: operate the old machine and clean it after the switch

### New machine role:

- Collect a tracheal tube clamp
- Collect a test-lung
- Stand by the new ventilator to which the patient will be connected
- You will: prepare and operate the new machine, clamp the tube, switch the circuits, and release the clamp

# **Post-procedure actions**

### The old machine must be cleaned and checked before returning to service:

- Connect the expiratory limb of the old circuit to the Y-piece to form a loop
- Turn the old machine off (fully powered-down)
- Perform the block-inspection:
- Collect the block key
- Open the block unit by pressing the grey button below the APL valve
- Undo the three screws using the block key and open the lid
- Remove the rubber container and empty any water into your waste bag
- Replace the rubber container
- Close the lid and redo the three screws Close the block unit
- Replace the CO<sub>2</sub> absorber canister and put the old one in your waste bag
- Check the sampling-line water trap and replace if needed
- Seal your waste bag
- Machine for a new patient)
- This machine can now be used as a 'new' machine



Fully disconnect the old circuit from the machine then put it in the waste bag

Dry the inside of the well using paper towels, then put them in your waste bag

Clean the old machine with Clinell wipes then clean your gloves with alcohol gel Prepare the machine for use (see T5-1: Setting up a Drager Anaesthetic