

COVID-19 Simulation Training

Endotracheal intubation

Dr C Diaz-Navarro, 15th March 2020



Learning objectives

By the end of this session, delegates will be able to

- Safely perform donning and doffing PPE according to HEE guidance
- 2. Keep safe when performing tasks and clinical duties
 - a. Intubating
 - b. Inserting an NG tube
- 3. Build resilience and support others in emotionally challenging situations









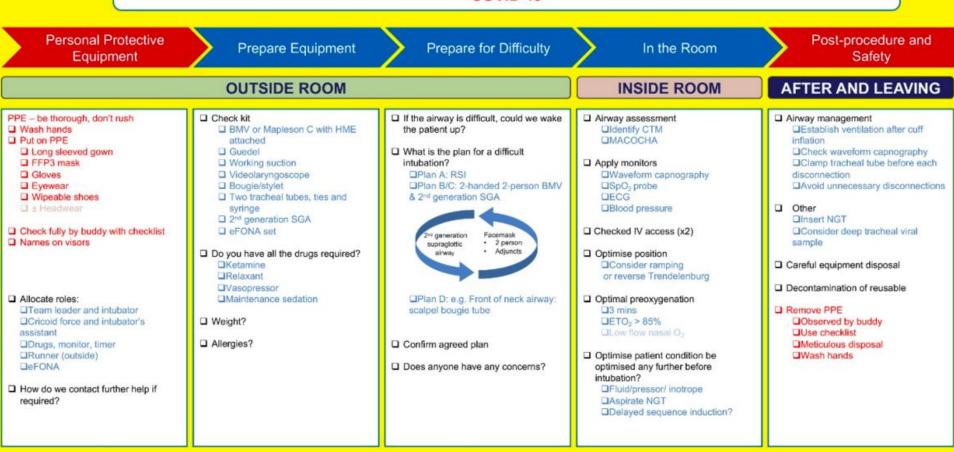
COVID-19 Airway management

principles

COVID-19 airway management: SAS

- · Safe for staff and patient
- Accurate avoiding unreliable, unfamiliar or repeated techniques
- · Swift timely, without rush or delay

Emergency tracheal intubation checklist COVID-19



Tracheal intubation of critically ill adults Adapted for COVID-19

Personnel and PPE

Staff must don full checked PPE and share plan for failure Most appropriate airway manager to manage airway

Pre-oxygenate and Checklist

Position: head up if possible

Assess airway and identify cricothyroid membrane

Waveform capnograph

Pre-oxygenate: Mapleson C / Anaesthetic circuit - with HME

Optimise cardiovascular system

Share plan for failure

Plan A: Tracheal Intubation

Laryngoscopy

Maximum 3 attempts

Maintain oxygenation

. May use low flow, low pressure 2-person mask ventilation

Full neuromuscular block

Videolaryngoscopy +/- bougle or stylet

External laryngeal manipulation

Remove cricoid

First

failure

Succeed

Call HELP

Confirm with capnography

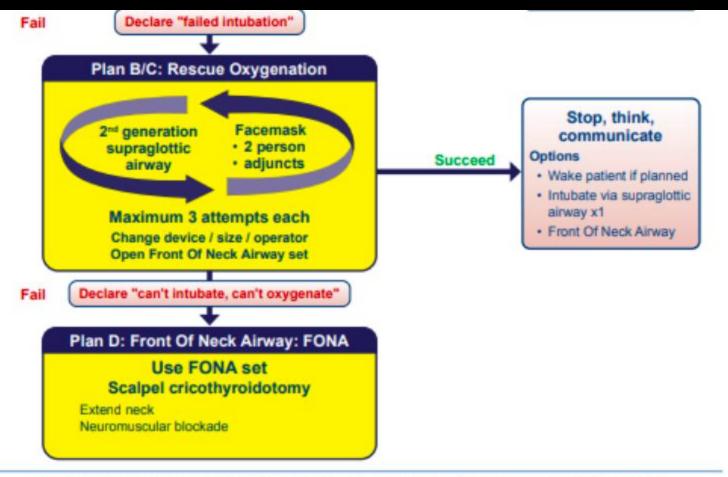
Note the time

 Before entering room staff must don full checked PPE

 Get Front Of Neck Airway (FONA) set

Fail

Declare "failed intubation"



Can't Intubate, Can't Oxygenate (CICO) in critically ill adults Adapted for COVID-19

CALL FOR HELP

Declare "Can't Intubate, Can't Oxygenate"

Plan D: Front Of Neck Airway: FONA

Extend neck

Ensure neuromuscular blockade

Exclude oxygen failure and blocked circuit

Personnel and PPE

New staff must don full checked PPE Most appropriate airway manager to perform FONA

Scalpel cricothyroidotomy

Equipment: 1. Scalpel (wide blade e.g. number 10 or 20)

Bougie (≤ 14 French gauge)
 Tube (cuffed 5.0-6.0mm ID)

Laryngeal handshake to identify cricothyroid membrane

Palpable cricothyroid membrane

Transverse stab incision through cricothyroid membrane
Turn blade through 90" (sharp edge towards the feet)

Slide Coudé tip of bougie along blade into trachea

Railroad lubricated cuffed tube into trachea
Inflate cuff, ventilate and confirm position with capnography.

Secure tube

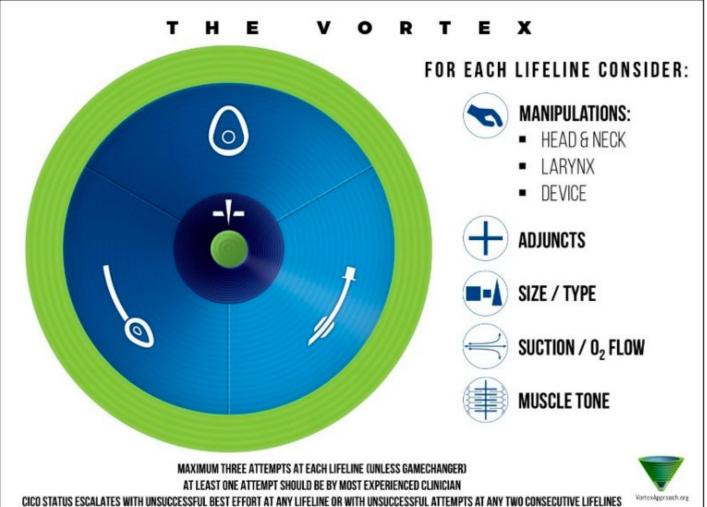
Impalpable cricothyroid membrane

Make a large midline vertical incision

Blunt dissection with fingers to separate tissues

Identify and stabilise the larynx

Proceed with technique for palpable cricothyroid membrane as about



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Type of exposure	Asymptomatic HCW with exposure within the past 14 days		14 day work exclusion	Other actions	
		5	Contact with a symptomatic possible case whilst wearing recommended PPE with no breaches	No	No restrictions
		6	Contact with a confirmed case whilst wearing recommended PPE with no breaches	No	No restrictions, but passive follow up for 14 days after last exposure
		7	Contact with a symptomatic possible case without wearing recommended PPE	No	Exclusion and self-isolation may be recommended in certain circumstances based on a risk assessment by occupational health, employers, or the local health protection team
		8	Contact with a confirmed case without wearing recommended PF	Yes	Self-isolation at home for 14 days after last contact (HPT will advise on follow-up)
	Household or other setting outside of work	9	Contact with a possible case	No	Exclusion and self-isolation may be recommended in certain circumstances based on a risk assessment by occupational health, employers, or the local health protection team
		10	Contact with a confirmed case	Yes	Self-isolation at home for 14 days after last contact (HPT will advise on follow-up)



Guidance

Stay at home: guidance for people with confirmed or possible coronavirus (COVID-19) infection

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 if you have symptoms of coronavirus infection (COVID-19), however mild, do not leave your home for 7 days from when your symptoms started. (See <u>ending isolation</u> section below for more information)



Any questions?