



Manchester University
NHS Foundation Trust

Airway Workshop Utilising Simulation



Who we are?



Manchester University
NHS Foundation Trust

Anna Tchorzewska
ICU Ward Manager



Ajeesh Karthikeyan
Trainee ACCP



Nixon Masih
Critical Care Charge Nurse



Sheba John
Critical Care Educator





Manchester University NHS Foundation Trust

- Manchester Foundation Trust is one of the largest NHS Acute Hospital Trusts in the UK, comprising local, regional and national clinical services. The Trust is a major tertiary referral centre for medical and surgical specialties. Adult Critical Care Services at Manchester Foundation Trust consist of 8 critical care units across 4 Hospital sites. At our Oxford Road site we provide services to support specialities including transplant and related surgery, vascular surgery, hematology, head & neck surgery, nephrology and hepatic-biliary surgery.

MFT Critical Care

Critical Care is part of the directorate Managed Clinical Services (MCS) of Clinical & Scientific Services (CSS) It is one of the largest Critical Care Units in the Northwest. Adult Critical Care Services at Manchester Foundation Trust consist of 8 critical care units across 4 Hospital sites. On Oxford Road Campus the service comprises a:

- General Intensive Care Unit (ICU) of 20 beds,
- General High Dependency Unit (HDU) of 20 beds
- Cardiac Surgery Unit (CICU) of 16 beds
- Elective Surgical High Dependency Unit of 8 beds
- In addition, we have Trafford High Care Unit (HCU) on the Trafford site 4 beds plus a stabilization bed for critically ill
- Central Delivery Unit 4 Enhanced Maternal Care beds

With a nursing team currently of over 350 whole time equivalent registered nurses the unit offers an established rotation for staff between ICU, HDU, Trafford High Care, Elective High Dependency Unit, CSITU as well as to the 'Enhanced Maternal Care' area of the Central Delivery Unit.



Airway Study Days



Airway study days at MFT were first introduced in 2020 to support the team in dealing with a high acuity of patients on the unit during the Covid-19 pandemic. The course has been designed to meet the needs of junior and senior nurses and support completion of the Critical Care Step Competency Framework.

Basic airway study days deliver theory around anatomy, physiology, and basic airway management. Advanced airway study days are designed to test gained knowledge during simulation. They consider emergency airway management and specialist equipment. Simulation is pivotal to these days as it provides learners with an experience that does not pose a risk to patients.

We have created an opportunity for our multidisciplinary team (Doctors, Nurses, Physiotherapist, Speech and language therapists, Critical care scientists) to work together, share best practice, and ultimately achieve the best outcome for our patients.

Learning key points

- At Manchester Royal Infirmary the airway link team on General ICU coordinate Airway Study Days alongside the education team. They include several taught sessions as well as emergency simulations. They build upon the knowledge of staff to safely care for patients with artificial airways, as well as giving them the opportunity to practice in line with emergency algorithms.
- There is both a 'Basic day' and an 'Advanced day', so that staff can attend a study day relative to their banding.
- It is recognised that these days are currently restricted to one Hospital site, and this will be reviewed in the future.

Insight into airway programme at MFT

- Basic Airway Study Day

AGENDA

TIME	TOPIC	SPEAKER
9:00-9:15	Introduction	Anna/Ajeesh
9:15-10:00	Non-invasive ventilation NHF/ CPAP Humidification	
10:00-11:00	Basic Mechanical ventilation Capnography	
11:00-11:15	Coffee	
11:15-12:00	ABG interpretation	
12:00-12:30	Bedside Safety checks	
12:30-13:00	Chest <u>drain</u> management	
13:00-13:30	Lunch	
13:30-14:30	Rapid Sequence Induction Difficult airway trolley	
14:30-15:15	Tracheostomy care- Weaning from MV Tracheostomy - Communication with patient Airway safety in delirium management	
15:15-15:30	Coffee	
15:30- 16:30	SIM- Tracheostomy emergency	
16:30- 17:00	Feedback	

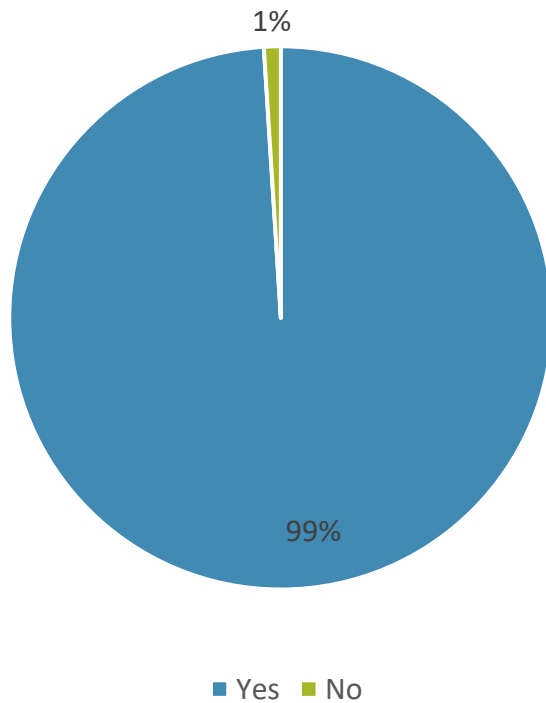
- Advance Airway Study Day

AGENDA

TIME	TOPIC	SPEAKER
9:00-9:15	Introduction	Anna Tchorzewska Critical Care Sister
9:15-9:45	Human Factors in Airway Management Leader Role in Intubation	Workshop: Resuscitation Practitioner
09:45-10:00	Break	-----
10:00-10:45	AnaConDa indication, Safety checks and monitoring	Workshop: AnaConDa representative
10:45- 11:30	Nitric Oxide- indication, safety checks and monitoring	Workshop: Chief Critical Care Scientist
11:30-13:30	SIMULATION Rapid Sequence Induction PLAN A B@AESE checklist CAN'T INTUBATE, CAN'T VENTILATE: Plan B-C Difficult airway trolley	Workshop: Consultant in Anaesthetics & Intensive Care Medicine
	CAN'T INTUBATE, CAN'T VENTILATE: Plan D FONA	
	Lunch	
13:30-14:00	Lunch	-----
14:00 – 15:45	Tracheostomy care- Weaning from MV Decannulation of Tracheostomy	Workshop: Speech and language therapy Physiotherapist
15:45-17:00	Basic Mechanical ventilation	Theory: Consultant in Anaesthetics & Intensive Care Medicine
16:45-17:00	Feedback Questionnaire	Critical Care Sister

Feedback

Has training met staff expectation?





Summary

- Since 2020, more than 300 nurses have attended both days. We have received positive feedback throughout. Senior management have supported the ongoing delivery due to a decreased rate of both incidents and complications associated with airway management. Improved emergency situation management is vital to ensure that errors are avoided.



Start, Camera,
Action...





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AIRWAY EMERGENCY SIMULATION

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Adult Critical Care Unit

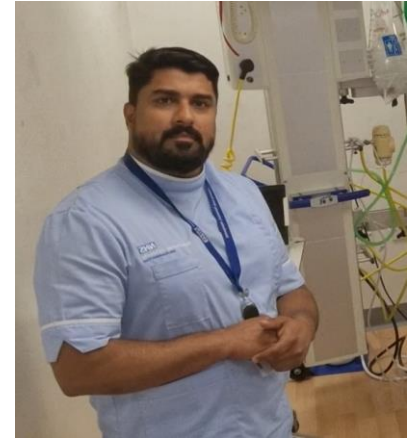
Simulation video

Time for questions

1. What action should be completed to avoid aspiration?
2. Which team should be informed about emergency?
3. How long should we wait after rocuronium was given?
4. What should happen to patient post procedure?



Special Thank You



- Sabir Mon Staff Nurse Critical Care
- Jini Philipose CICU Sister
- Anuja Singla Clinical Fellow Anaesthetics
- Consultant Rahul
- Alice Shaw Critical Care Education Matron





7TH European Airway Management Society Congress

October 5-7 2023



Our abstract has just been accepted at the European Difficult Airways Society Conference in Milan in 2023

Thank you for letting us be a part of this year BACCN conference