Appendix 6 – Instructions and check list for prone positioning COMPLETE PRE AND POST PRONING CHECKLIST AND FILE THIS SHEET IN THE NOTES

Indications

Refractory hypoxaemia

ARDS with PaO2:FiO2 ratio of <20KPa with FiO2 > .6 (e.g. PaO2 < 12KPa with FiO2 .6) Poor compliance with difficulty keeping peak pressure < 30cmH2O Already paralysed and trial of higher PEEP/recruitment manoeuvres if appropriate

Contraindications

Absolute: open abdomen, unstable cervical spine injury Relative: cardiovascular instability, pregnancy, head/facial/eye/thoraco-lumbar spine/pelvic trauma, morbid obesity

Before procedure

- Inform family if possible
- Assemble team: 1 doctor to manage airway, 4 others at least to perform turn
- Eye care: tape eyes, gauze pad
- Ensure ETT secure, note length at teeth
- Aspirate NG tube, ensure length at nose documented and disconnect feed
- Lines: disconnect non-essential lines, ensure adequate length for those still running
- Consider whether a vascath should be inserted before turning
- Move haemofilter if running to position so that turn can be made
- Pad and position any drains for turn
- Pre-oxygenate with 100% oxygen if not on already
- Ensure deeply sedated and paralyse if not already receiving infusion of neuromuscular blocking drug
- Locate at least two pillows

Turning to the prone position

- Ensure team present as above, may need more if patient obese
- Team to be briefed on planned technique
- Place slide sheet under patient (under sheet below patient)
- Place arms by side
- Remove ECG electrodes from chest
- Put one pillow over chest, other over pelvis
- Put second sheet over patient, put edges together and roll up tightly together the 'pasty'
- Airway doctor securely keeps hold of endotracheal tube and head
- Turn towards the ventilator if possible
- On the count of the airway doctor slide the patient to the edge of the bed usually away from the ventilator
- Then slowly role the patient over onto their front usually towards the ventilator usually whole movement of sliding then rolling in one count but to be clarified by airway doctor before turn
- Keep endotracheal tube connected to ventilator during turn if possible to prevent derecruitment
- Monitor capnography trace throughout keep saturation probe and arterial monitoring on during procedure if possible
- Ensure pillows in acceptable position under chest with chin free and under pelvis leaving abdomen free between pillows
- It is acceptable to turn with no pillows in place and lift the patient when prone to place the pillows if preferred

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Immediately after turning

- Replace ECG electrodes on back
- The patient should be moved so that the ankles are at the bottom of the mattress and the foot is hanging off so it is not excessively plantar flexed
- Alternatively a further pillow should be placed under the shins for the same effect
- One arm should be 'swum' above the head with the shoulder ensured to be abducted to less than 90 degrees
- The head should be turned towards the side the arm is swum
- Ensure eyes not compressed by bed and facial tissues not being compressed by any lines/equipment
- Reverse Trendelenberg, slight head up
- Can restart NG feed check NG length at nose has not moved

Maintaining the prone position

- Assess response, aim to see oxygenation improving, lung recruitment and improved compliance
- Monitor for pressure on eyes
- Swim each arm and put the other back down by the side every 2-4 hours
- Move the head to face the raised arm at the same time
- Aim to keep prone for 16 hours may be longer or shorter at discretion of ICU consultant
- To turn the patient supine do the reverse of the process described

Emergency Situations

- Airway displacement
 - Call for help, (4444 anaesthetic emergency team if needed)
 - Turn the patient supine as quickly as possible
 - Reintubate or replace tracheostomy
- Cardiac arrest
 - o Call for help, commence CPR (+/- defibrillation) in prone position
 - When enough team present, turn supine and continue CPR

Pr	e-proning checklist (tick each item) Appropriate team assembled Pre-oxygenated to 100% Airway trolley and equipment available Airway well secured, ETT length at teeth noted Tape and gauze to eyes Consider whether vascath or extra access needed before turn Non-essential infusion lines removed Remaining with adequate length and haemofilter positioned appropriately ECG electrodes and unnecessary monitoring removed Catheter between legs and bag at bottom of bed Any chest drains positioned for turn (clamped only at discretion of senior doctor) Any surgical drains/stomas padded and positioned appropriately NG feed disconnected, aspirated and length of tube noted at nose Patient adequately sedated and paralysed	Po	Airway not kinl All more No pres Pillows Neck fr One are abducte Head fa NG still Cathete Feet no bed or Leads a	ing checklist (tick each item) secure, capnography trace still present, ETT ked, still at same length nitoring in place and functioning ssure on eyes ssure on face from ETT or central line in appropriate places, abdomen hanging free ree from compression in good position m in raised in swimming position, shoulder ed less than 90 degrees acing raised arm I in same position er and male external genitalia between legs of excessively plantar flexed hanging off end of with pillow under shins and wires not underneath patient werse Trendelenberg slightly head up	e
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