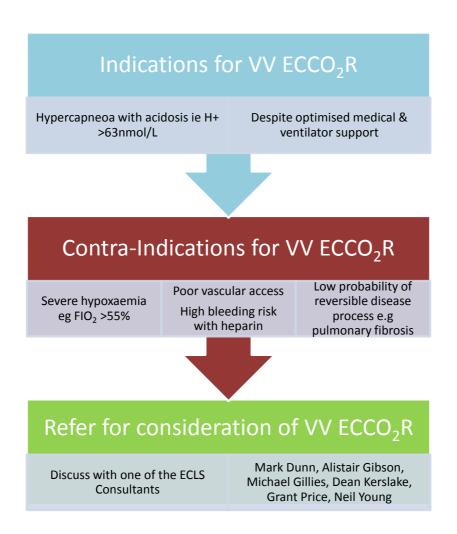


Extra Corporeal Carbon Dioxide Removal Guideline

Veno venous Extracorporeal Carbon dioxide referral



Dr Grant Price on behalf of ECLS Consultants September 2015 Review September 2016

Extra Corporeal Carbon Dioxide Removal (ECCO2R) may be considered in NHS Lothian in the following situations:

- Ventilated patients with ARDS in whom it is not possible to provide adequate lung protective ventilation.
- Ventilated patients with acute severe asthma or COPD in whom safe CO₂ clearance cannot be achieved.
- If a H+ ion concentration of < 64 nmol/L cannot be achieved with tidal volumes of </= 6ml/kg ideal body weight and plateau pressures < 30 cmH₂O in patients with ARDS or acute severe asthma.
- In cases of severe hypoxaemia e.g. P/F ratio < 13.3kPa (100mmHg) consideration should be given to ECMO referral.

In view of the absence of robust data supporting a mortality benefit for ECCO2R and potential complications:

- Two Consultant Intensivists should be involved in the discussion to use ECCO2R.
- Authorisation should be obtained from the Clinical Director or Associate Medical Director.
- The use of ECCO2R should be discussed with the patient/ relative and written information offered as per NICE IPG 428. http://www.nice.org.uk/nicemedia/live/11861/59696/59696.pdf
- Following weaning of ECCO2R data must be entered in the ELSO registry.

Daily management:

- Patients should usually be anticoagulated to an APPTR of 1.5 2.0 as per the ECMO anticoagulation guideline – if an absolute contra-indication to anticoagulation exists the use of ECCO2R without anticoagulation may be considered.
- Patients should be cared for by a nurse with experience in extra corporeal respiratory therapies.

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