

ACUTE DIALYSIS

Intermittent hemodialysis for critically ill patients

Protocol for Covid-19 positive patients who require renal therapy and are suitable for daily intermittent haemodialysis in a designated satellite critical care area

Indications

- COVID-19 positive level 2/3 patients admitted
- Haemodynamically stable (noradrenaline requirements < 0.4 mcg/kg/min)

Prescription

- Daily review and prescription to be written on **CRS** by 09.00 am (see process overleaf)
- Duration: 6 hours (therapy started between 08.00 and 10.00 and discontinued between 14.00 and 16.00)
- If Hb <70 g/L consider transfusing RBC during therapy to prevent hyperkalemia

CRS

- **Dialyser:** FX60
- **FLUID REMOVAL:** 0-400 ml/h
- **DIALYSATE:**
 - Potassium: 3
 - Calcium : 1.25
 - Bicarbonate & Sodium: standard
- **BLOOD FLOW:** 150 -200 ml/min
- **Dialysate flow:** 300 - 500 ml/min

DRUG CHART

- **ANTICOAGULATION:**
 - **Enoxaparin 60 mg** into the circuit at the start of therapy (administered by dialysis nurse) in addition to other standard LMWH prophylactic anticoagulation
- **CITRALOCK DOSE :** volume of vascath

During therapy

- Hourly CVS & fluid removal observations
- MAP > 60
- Standard ABG for ventilation
- Do not adjust K+ and electrolytes during therapy

After therapy

- Dialysis nurses to disconnect patient and manage vascath anticoagulation
- Document cumulative fluid balance
- ABG within 1 hour
- Standard critical care observations
- **K+:** Do not supplement within 2 hours of stopping therapy
- Treat hyperkalemia as per ACCU protocol and d/w medical staff

Antibiotic management

- **TAZOCIN:** TDS, always time one dose within 30 minutes of ending therapy
- **AMIKACIN:**
 - Take level at the end of therapy and give dose without waiting for result (within 1 hour of disconnection)
- **VANCOMYCIN:**
 - Pre-dose level at the end of therapy 1 g post dialysis

General care

- **NG FEED:** use 2 Kcal/ml as standard - Renal dieticians to review patients (x41189, x41190)
- Daily routine bloods as standard practice in ACCU
- Use fluid restricted protocols for medicines administration