



Mater Misericordiae University Hospital

The Mater ECLS Service
Department of Critical Care Medicine
Mater Hospital
Dublin

Requirements if ECLS is to be initiated in the referral hospital:

Equipment:

Trolley
Surgical Masks with Visors
Caps, Sterile gowns and gloves
Large sterile surgical drapes
Towel clips
Gauze
2% Chlorhexidine solution for skin prep only
Betadine solution (non-alcohol based)
Heparin: 50 -100 units/kg for systemic anticoagulation
1 Litre Hartmans Solution with 1,000 units Heparin to flush ECLS cannulae and circuit
Sterile jug (0.5 or 1L)
50 ml Bulb/Bladder syringe
18G needle x1
10ml syringes x2
5ml syringes x2
Sterile clear occlusive dressing
Sterile tubing clamps x6
Sterile heavy duty scissors

Prior to initiation of ECLS:

Consider ready availability of Red Blood Cells (2 units)
Consider placement of Right Radial Arterial Line (for peripheral VA ECLS)
Consider placement of antimicrobial coated CVC
(retain Right Internal Jugular and Femoral Vein sites for ECLS Cannulae)
Consider placement of Tracheostomy, Naso-Gastric tube, long-term Urinary Catheter
Echocardiography and Vascular Ultrasound equipment if available

The Mater ECLS service will bring:

ECLS Circuit
ECLS Console
ECLS Cannulation kit with guide wire and dilators
ECLS Cannula
Backflow Cannula
Backflow Tubing
Tubing connectors (various sizes)
ACT machine and cuvettes