**Purpose**

To describe the HMC Transfusion Services Laboratory process for patients placed on Extracorporeal Life Support (ECLS) for cardiac and pulmonary support.

**Policy**

HMC TSL will provide blood for patients who are placed on ECLS. TSL will respond and provide transfusion support in accordance with the Massive Transfusion Protocol (MTP) and Emergency Release process.

**Procedure**

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| **Step** | **Action** | **Related Documents** |
| 1 | HMC TSL will be notified when a patient will be placed on ECLS   * Phone call by nurse * CPOE notification *“ECLS notification to Transfusion Services”*   *Note: If only CPOE notification is received, call the location to determine urgency of blood and respond appropriately* |  |
| 2 | TSL staff   * Identify the location of the patient * Look up patient in Blood bank inquiry * Identify if products have been ordered and status of allocation * Record on whiteboard patient name, MRN and location * Hand notification to MLS for BAD file update | SQ Using Blood Bank Inquiry |
| 3 | TSL response may be required to the following areas   * Operating Room * TSICU * ICU |  |
| 4 | The ECMO team will request for TSL by one of the following;   * Initiating an MTP for crash cannulation in OR * Crossmatched blood fridge- 6 RBCs, 6 FFP, 1 PLT for planned cannulation –OR or TSICU or ICU   The TSL team will respond immediately   * Crash cannulations – trauma packs if crossmatched blood is not immediately available * Planned cannulation blood product requests must be allocated and ready for issue ahead * If blood fridge is requested on TSICU/ICU, units can be issued through the pneumatic tube system followed by the portable | HMC Massive Transfusion Protocol  Receiving and Processing Emergency Release Orders |
| 6 | All ECMO patient testing must be performed STAT |  |
| **Step** | **Action** | **Related Documents** |
| 7 | MLS tech updates BAD file with the following information under comments   * ECLS initiated, date and tech ID |  |
| 8 | Upon notification when patient is removed from ECLS, the MLS tech will update the BAD file under comments   * ECLS complete, date and tech ID |  |

**References**

Blood Bank Users Guide, Mysis Laboratory, Version 7.2

Extracorporeal Life Support (ECLS) at HMC