

**THE UNIVERSITY OF CHICAGO MEDICAL CENTER  
Maximum Surgical Blood Ordering Schedule (MSBOS)**

| <b>Cardio Thoracic Surgery</b>     | <b>Number of Units</b> |
|------------------------------------|------------------------|
| <b>Cardiac Surgery</b>             |                        |
| Aortic aneurysm                    | 2                      |
| Aortic dissection                  | 4                      |
| CABG                               | 2                      |
| Heart transplant with LVAD explant | 6                      |
| Heart transplant                   | 2                      |
| Lung transplant                    | 2                      |
| Re-operations                      | 4                      |
| VAD                                | 5                      |
| Valve                              | 2                      |
| <b>Thoracic Surgery</b>            |                        |
| Esophagectomy                      | 2                      |
| Decortication for mesothelioma     | 2                      |
| Pectus repair                      | 2                      |
| Thoracotomy                        | T&S                    |

| <b>General Surgery</b>                                      | <b>Number of Units</b> |
|---|------------------------|
| <i>*All laparoscopic procedures same as open procedures</i> |                        |
| Abdominal-perineal resection                                | T&S                    |
| Adrenalectomy   | T&S                    |
| Colon resection   | T&S                    |
| Esophagectomy   | 2                      |
| Exploratory Laparotomy                                      | T&S                    |
| Gastrectomy   | T&S                    |
| Hepatic Lobectomy   | 2                      |
| Lower limb amputation (Above or below knee)                 | T&S                    |
| Open Liver biopsy   | T&S                    |
| Pancreatic Resection (Distal or Radical, aka Whipple)       | T&S                    |
| Splenectomy   | T&S                    |

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| <b>Neurosurgery</b>                                     | <b>Number of Units</b> |
|---|------------------------|
| Craniotomy  | T&S                    |
| Laminectomy (reopening, multiple, scoliosis surgery)    | T&S                    |
| Scalp and Skull Lesions w/o Intracranial Communications | T&S                    |

| <b>Obstetrics/Gynecology</b>                 | <b>Number of Units</b> |
|--|------------------------|
| All active OB patients                       | T&S                    |
| C-section (no other risk factors)            | T&S                    |
| D&E (any gestation)                          | T&S                    |
| Hysterectomy, (abdominal, vaginal, radical)  | T&S                    |
| Hysterectomy, Cesarean                       | 4                      |
| Myomectomy                                   | T&S                    |
| Ovarian Cancer Debulking                     | 2                      |
| Placenta accrete                             |                        |
| -Low suspicion                               | 4                      |
| -High suspicion                              | MTP Pack               |
| Removal tube & ectopic                       | T&S                    |
| Salpingo Oophorectomy (excludes laproscopic) | T&S                    |

| <b>Orthopedics Surgery</b>                            | <b>Number of Units</b> |
|---|------------------------|
| Lower limb amputation (above or below knee)           | T&S                    |
| Hemiarthroplasty for hip fracture                     | T&S                    |
| Laminectomy (reopening, multiple, scoliosis surgery)  | T&S                    |
| Humerus fixation                                      | T&S                    |
| ORIF Intertrochanteric fracture of the hip            | T&S                    |
| ORIF of femur   | T&S                    |
| Osteotomy   | T&S                    |
| Pediatric Varus osteotomy VDRO, with pelvic osteotomy | T&S                    |
| Shoulder arthroplasty                                 | T&S                    |
| Spinal fusion   | T&S                    |
| Total or Partial Hip arthroplasty                     | T&S                    |

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| <b>Otorhinolaryngology</b> | <b>Number of Units</b> |
|----------------------------|------------------------|
| Free flap reconstruction   | T&S                    |
| Mandibulectomy             | T&S                    |
| Radical neck dissection    | T&S                    |
| Temporal bone resection    | 2                      |

| <b>Pediatric Surgery</b>                              | <b>Number of Units</b>             |
|---|------------------------------------|
| Cardiac Re-operations                                 |                                    |
| On Pump   | 3                                  |
| Off Pump  | 2                                  |
| <i>After infancy</i>                                  | <i>Add 2u to above requirement</i> |
| Cardiac surgery w/ cardiopulmonary bypass (On Pump)   | T&S                                |
| Cardiac surgery w/o cardiopulmonary bypass (Off Pump) | 2                                  |
| Craniofacial reconstruction                           | 2                                  |
| ECMO  |                                    |
| -Neonatal ECMO pack                                   | 2 Washed                           |
| -Pediatric ECMO pack                                  | 3 Fresh                            |
| Hepatic lobectomy                                     | T&S                                |
| Orthognathic surgery                                  | T&S                                |
| Scoliosis Surgery                                     | T&S                                |
| Solid tumor resection                                 | T&S                                |
| Trauma or Emergency surgery                           | T&S                                |
| Vascular anomaly                                      | T&S                                |

| <b>Plastic Surgery</b> | <b>Number of Units</b> |
|------------------------|------------------------|
| Debridement of burn    | T&S                    |
| Exc Wound Debridement  | T&S                    |
| Flap reconstruction    | T&S                    |
| Skin Flap              | T&S                    |
| Free Skin Graft        | T&S                    |

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| <b>Transplant Surgery</b>            | <b>Number of Units</b> |
|--------------------------------------|------------------------|
| Kidney and Pancreas transplant       | 2                      |
| Kidney transplant                    | 1                      |
| Liver Segment donation (Hepatectomy) | 2                      |
| Liver transplant, adult              | 10                     |
| Liver transplant, pediatric          | 5                      |
| Liver resection (left or right lobe) | 4                      |

| <b>Urologic Surgery</b>              | <b>Number of Units</b> |
|--------------------------------------|------------------------|
| Adrenalectomy                        | T&S                    |
| Nephrectomy                          | T&S                    |
| Percutaneous Nephro Lithotomy (PCNL) | T&S                    |
| Radical cystectomy                   | 2                      |
| -Traditional                         | T&S                    |
| -Robotic                             | T&S                    |

| <b>Vascular Surgery</b>                     | <b>Number of Units</b> |
|---|------------------------|
| Abdominal aneurysm                          | 4                      |
| Endo repair                                 | T&S                    |
| Lower limb amputation (above or below knee) | T&S                    |
| Aortofemoral bypass graft                   | T&S                    |
| Aortiliac bypass graft                      | 2                      |
| Aortoiliac bypass                           | T&S                    |
| Head and Neck Endarterectomy                | T&S                    |
| Femoropopliteal bypass graft                | T&S                    |
| Aneurysm Repair, NEC                        | T&S                    |
| Vascular Shunt Bypass                       | T&S                    |