SURGICAL BLOOD ORDER SCHEDULE

Cardiac Surgery	
Case Category	Rec
Heart or lung transplant	T/C 4U
Minimally invasive valve	T/C 4U
Revision sternotomy	T/C 4U
CABG/valve	T/C 4U
Open heart surgery	T/C 4U
Assist device	T/C 4U
Cardiac/major vascular	T/C 4U
Open ventricle	T/C 4U
CABG	T/C 2U
Cardiac wound surgery	T/C 2U
Percutaneous cardiac	T/C 2U
Pericardium	T/C 2U
Lead extraction	T/C 2U
AICD/pacemaker placement	T/S

General Surgery	
Case Category	Rec
AP resection	T/C 2U
Intraabdominal GI	T/C 2U
Whipple or pancreatic	T/C 2U
Liver resection	T/C 2U
Retroperitoneal	T/C 2U
Substernal	T/C 2U
Bone marrow harvest	T/S
Hernia – Ventral/Incisional	T/S
Hernia – Inguinal/Umbilical	No Sample
Appendectomy	No Sample
Abdomen/chest/soft tissue	No Sample
Lap or open cholecystectomy	No Sample
Thyroid/parathyroid	No Sample
Central venous access	No Sample
Any Breast – except w/flaps	No Sample

Gynecological Surgery

Case Category	Rec
Uterus open	T/C 2U
Open pelvic	T/C 2U
Uterus/ovary	T/S
Total vaginal hysterectomy	T/S
Cystectomy robotic assisted	T/S
Cystoscopy	No Sample
External genitalia	No Sample
GYN cervix	No Sample
Hysteroscopy	No Sample
Superficial wound	No Sample

Neurosurgery

Case Category	Rec
Thoracic/Lumbar/Sacral fusion	T/C 4U
Spine tumor	T/C 2U
Posterior cervical spine fusion	T/C 2U
Spine Incision and Drainage	T/C 2U
Intracranial tumor / aneurysm	T/C 2U
Laminectomy/discectomy	T/S
Spine hardware removal/biopsy	T/S
ACDF	T/S
Extracranial	No Sample
Nerve procedure	No Sample
CSF/shunt procedure	No Sample

Orthopedic Surgery	
Case Category	Rec
Thoracic/Lumbar/Sacral fusion	T/C 4U
Pelvic orthopedic	T/C 4U
Open hip	T/C 2U
Femur open	T/C 2U
Above/below knee amputation	T/C 2U
Humerus open	T/S
Fasciotomy	T/S
Shoulder Incision & Drainage	T/S
Tibial/fibular	T/S
Total knee replacement	T/S
Shoulder open	T/S
Knee open	T/S
Thigh soft tissue	No Sample
Ortho external fixation	No Sample
Peripheral nerve/tendon	No Sample
Lower extremity I&D	No Sample
Hand orthopedic	No Sample
Upper extremity arthroscopy	No Sample
Upper extremity open	No Sample
Podiatry/Foot	No Sample
Hip closed/percutaneous	No Sample
Lower extremity arthroscopic	No Sample
Shoulder closed	No Sample
Tibial/fibular closed	No Sample

Otolaryngology Surgery	
Case Category	Rec
Laryngectomy	T/C 2U
Facial reconstruction	T/C 2U
Cranial surgery	T/C 2U
Radical neck dissection	T/C 2U
Carotid body tumor	T/C 2U
Mandibular surgery	T/S
Neck dissection	T/S
Mastoidectomy	No Sample
Parotidectomy	No Sample
Facial plastic	No Sample
Oral surgery	No Sample
Sinus surgery	No Sample
Thyroid/parathyroidectomy	No Sample
Suspension laryngoscopy	No Sample
Bronchoscopy	No Sample
Cochlear implant	No Sample
EGD	No Sample
External ear	No Sample
Inner ear	No Sample
Tonsillectomy/adenoidectomy	No Sample
Tympanomastoid	No Sample
Theresis	
Thoracic Surgery	
Case Category	Rec
Esonhageal open	1/(: 211

Esophageal open T/C 2U Sternal procedure T/C 2U

Sternal procedure	T/C 2U
Chest wall	T/C 2U
Thoracotomy	T/C 2U
Pectus repair	T/C 2U
VATS	T/S
Mediastinoscopy	T/S
EGD/FOB	No Sample
Central venous access	No Sample

Urology		
Case Category	Rec	
Cystoprostatectomy	T/C 2U	
Urology open	T/C 2U	
Nephrectomy	T/C 2U	
Lap/Robotic kidney/adrenal	T/S	
RRP	T/S	
Percutaneous nephrolithotomy	T/S	
Robotic RRP	No Sample	
External genitalia/Penile	No Sample	
TURP	No Sample	
Cysto/ureter/urethra	No Sample	
TURBT	No Sample	

Vascular/Transplant Surgery **Case Category** Rec T/C 15U Liver transplant Thoracoabdominal aortic T/C 15U Major liver resection T/C 4U T/C 4U Major vascular Exploratory lap vascular T/C 4U T/C 2U Kidney pancreas transplant Major endovascular T/C 2U T/C 2U Above/below knee amputation Nephrectomy/kidney transplant T/C 2U Organ procurement T/C 2U Peripheral vascular T/C 2U T/C 2U Vascular wound I&D Carotid vascular T/S AV fistula T/S T/S Peripheral endovascular No Sample Angio/Arteriogram No Sample Peripheral wound I&D

1st rib resection/thoracic outlet

Foot/toe amputation/debride

Central venous access

Superficial or skin

No Sample

No Sample

No Sample

No Sample

If the procedure you are looking for is not on this list, then choose the procedure that most closely resembles that procedure.

*Emergency Release blood is available for ALL cases, and carries a risk of minor transfusion reaction of 1 in 1,000 cases. Supplemental Digital Content 1. The surgical blood order schedule that has been implemented at Johns Hopkins Hospital. These recommended preoperative blood orders are specific to our institution. ACDF = Anterior cervical discectomy/fusion, AICD = Automated implantable cardiac defibrillator, AP = Anterior-posterior, AV = Arterial-venous, CABG = Coronary artery bypass grafting, CSF = Cerebral-spinal fluid, EGD = Esophagogastroduodenoscopy, FOB = Fiberoptic bronchoscopy, GI = Gastrointestinal, GYN = Gynecological, I & D = Incision and drainage, Lap = Laparoscopic, No sample = No type and screen or type and crossmatch needed, Rec = Recommendation, RRP = Radical retropubic prostatectomy, T/C = Type and crossmatch, T/S = Type and screen, TURBT = Transurethral bladder tumor, TURP = Transurethral prostatectomy, U = Units of erythrocytes, VATS = Video-assisted thoracoscopic surgery