

Blood Order Guidelines (BOG) for Adult Elective Surgery

To promote safe patient care, the Blood Order Guidelines (BOG) for Adult Elective Surgery, lists surgical procedures for which there is significant likelihood of blood loss, potentially requiring blood transfusion.

The City-Wide Transfusion Committee supports annual evaluation of the BOG within each Surgical Division. Review is to be based on the previous historical listing of “high blood loss surgical procedures” and the current transfusion rate information.

For all Surgical Procedures listed, the Blood Transfusion Laboratory (BTL) requires a blood sample for group and reserve. A Physician’s clinical assessment and subsequent specific order always takes precedent over the BOG.

If the surgical procedure is not listed on the BOG:

- The Surgeon can order group and reserve by selecting the checkbox “Group & Reserve/Crossmatch” in the Blood Transfusion Lab section of the Preadmission Registration and Physician’s Orders
- The Surgeon may be contacted to provide direction, if during pre-admission assessment a group and reserve sample is considered to be indicated for a particular patient or surgical procedure and it has not been ordered

If the surgical procedure is listed on the BOG but the Surgeon assesses that a BTL specimen is not required for a specific patient case, group and reserve can be discontinued by indicating “No” followed by the Surgeons initials below “Group & Reserve/Crossmatch” in the Blood Transfusion Lab section of the Preadmission Registration and Physician’s Orders.

Factors to consider regarding Group and Reserve

If a patient does have a Group and Reserve sample:

- Crossmatched blood will be available, if required. It is not necessary to specify the number of units. Electronic crossmatching is done at the time blood is required.
- If a red blood cell antibody is identified, the Blood Transfusion Laboratory will have time to locate compatible units
- Discussion with the patient regarding transfusion risks, benefits and alternatives should occur (Consent for Blood Transfusion section of the LHSC Consent form should be completed)
- If there is no previous record of the patient's blood group, a second confirmation blood sample is required
- Cost of a Group and Reserve is approximately \$30

If a patient does **not** have a Group and Reserve sample:

- Group O uncrossmatched blood will be issued immediately, if required
- Crossmatched blood will be available within 45 minutes of the Blood Transfusion Laboratory receiving a sample
- There is always a possibility that the patient may have a red blood cell antibody; if so, uncrossmatched blood might be incompatible leading to a hemolytic transfusion reaction, and/or it might be difficult to find compatible blood leading to a significant delay

Contact Information:

Questions can be directed to:

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Kathleen Eckert, Transfusion Safety Officer, Rm D1-236, VH, ext 55303

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CARDIAC SURGERY

CABG (Coronary artery bypass graft)
CABG - Redo
Valve repair/replacement
Valve - Redo
Bentall Procedure
Repair Atrial Septal defect
Heart Transplant
Pericardectomy
Pericardial Window
Cardiac Tumor

DENTISTRY

None

GENERAL SURGERY

Bowel: Colectomy
 Left
 Total/subtotal
 Sigmoid
 Laparoscopic assisted
Bowel: Colostomy
Bowel: Hartman's
 Procedure
 Reversal
Bowel: Proctocolectomy
Bowel: Resection
 Abdominal Perineal
 Anterior
 Low Anterior
Laparotomy
Gastrectomy
Liver: Resection
Liver: Transplant
Splenectomy
Whipple's resection
Pancreatectomy

GYNECOLOGY & OBSTETRICS

Gynecology

Hysterectomy, abdominal
Salpingo-oophorectomy, abdominal
Laparotomy: Tumor debulking/Pelvic mass/Staging
Pelvic Exenteration

Obstetrics

Cesarian section
Placenta Previa
D&C for early pregnancy loss**
Labour & delivery**

** Group/Rh and Screen Only (GSO) for Rhlg status

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NEUROSURGERY

Carotid Endarterectomy
Craniectomy
Craniotomy
Fusion/Instrumentation Discectomy/Laminectomy
 Spine
 Cervical
 Lumbar
 Thoracic
Spinal Cord Tumor Excision

ORTHOPEDIC SURGERY

Fusion/Instrumentation Discectomy/Laminectomy
 Spine
 Cervical
 Lumbar
 Thoracic
Scoliosis Surgery
Femur: Nail/ORIF
Hip/Pelvis: Nail/Pin/ORIF
Hip Joint Replacement
 Primary
 Revision
 Bilateral
Hip Hemi-arthroplasty
Irrigation and debridement
Knee Joint Replacement
 Primary
 Revision
 Bilateral
Amputation
 Above Knee
 Below Knee

OTOLARYNGOLOGY

Laryngectomy/Laryngopharyngectomy
Maxillectomy
Neck Dissection
Oromandibular/Composite Resection
Flap: Free
 Pectoral
 Revision

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PLASTIC SURGERY

- Bilateral Breast reconstruction
 - Latissimus dorsi flap
 - Tram flap
 - DIEP flap

THORACIC SURGERY

All planned elective thoracic surgical procedures

UROLOGY SURGERY

- TUR (Transurethral Resection)
 - Bladder Tumor
 - Prostate
- Cystectomy, Ileal conduit
- Cystectomy, Bladder reconstruction
- Prostatectomy - Radical Retropubic
- Kidney Transplant Donor
- Kidney Transplant Recipient
- Nephrectomy (Partial or Radical)
- Retroperitoneal Lymph Node Dissection (RPLND)
- Percutaneous Nephrolithotripsy (PCN)

VASCULAR SURGERY

- Carotid Endarterectomy
- Abdominal Aortic Aneurysm
 - Open
 - Endovascular
- Thoracic Aneurysm
 - Open
 - Endovascular
- Artery Surgery: Graft/Bypass
 - Aortic
 - Axillary
 - Renal
 - Femoral
 - Popliteal
- Amputation
 - Above Knee
 - Below Knee