

ROYAL INFIRMARY OF EDINBURGH
MAXIMUM SURGICAL BLOOD ORDERING SCHEDULE
MSBOS

ELECTIVE ORTHOPAEDICS

PROCEDURE	GROUP & SAVE
Primary and Revision Hips	
Hb > 100	✓
Hb < 100	✓ Inform medic (Hb)
Primary and Revision Knees	
Hb > 100	✓
Hb < 100	✓ Inform medic (Hb)
Primary shoulders and elbows	✓
Revision shoulder/elbow	✓
Femoral osteotomy	✓
Pelvic osteotomy	✓
Back discectomy and laminectomy	✓
Back decompression	✓
Spinal fusions	✓
Scoliosis surgery	✓
Major orthopaedic tumours	✓
Bone from iliac crest	✓

**An individual clinician can over-ride the MSBOS if deemed appropriate.
Blood, if required, will be issued wherever possible by electronic issue.**

VASCULAR SURGERY

PROCEDURE	PRE-OP RESERVATION TARIFF
Ruptured Aortic Aneurysm:	
TAAA Extent 1,2,3,5 open surgery	10 units red cells
TAAA Extent 4 open surgery	6 units red cells
TAAA stent grafting	6 units red cells
Elective Aortic Aneurysm	Electronic Issue
Aorto-bifemoral Bypass	Electronic Issue
Ilio-femoral/popliteal/distal	Electronic Issue
Femoral Endarterectomy	G + S*
Femoro-femoral X-over	G + S*
Carotid Endarterectomy	G + S*
Carotid Subclavian Bypass	G + S

Amputations	G + S
Upper/Lower Limb Embolectomy	G + S
Thoroscopic sympathectomy	Nil
Varicose veins	Nil
Toe/finger amputation	Nil
Radiological Procedures:	
Transfemoral	Nil
Angioplasty	G + S
Patient anticoagulated	G + S

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*For these operations, if the pre-op Hb is less than 100 g/L, clinicians will send a second sample to BTS to make patient eligible for electronic issue.

ELECTIVE CARDIOTHORACIC SURGERY

PROCEDURE	PRE-OP RESERVATION TARIFF
(1 st time) CABG	Electronic issue
Redo CABG, complex cases (valves +/-CABGs), others	2 units

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OBSTETRICS

PROCEDURE	PRE-OP RESERVATION TARIFF
Elective Caesarian section	Electronic issue
Placenta praevia:	
anterior, grade IV posterior, or previous C/Sn	10 units red cells

Any other pp and no previous C/Sn	4 units red cells
Placental abruption	4 units red cells
Actively bleeding:	
Major APH	4 units red cells
Major PPH	4 units red cells
DIC, multiple causes	4 units red cells
Coagulopathies	4 units red cells
MROP (manual removal of placenta)	Electronic issue

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GYNAECOLOGY

PROCEDURE	PRE-OP RESERVATION TARIFF
Myomectomy	2-3 units red cells
Malignancy with low Hb	2-3 units red cells
Total abdominal hysterectomy +/- bilateral salpingo-oophorectomy +/- omenectomy	G+S
Ovarian cystectomy	G+S
Oophorectomy	G+S
Pelvic floor repair:anterior/posterior;enterocoele	G+S
Vaginal hysterectomy	G+S
Colposuspension	G+S
Tension free vaginal tape procedure	G+S
Sacrospinous fixation	G+S
Manchester repair	G+S
Radical vulvectomy	G+S
Simple vulvectomy	G+S
Groin node dissection	G+S
Wertheims hysterectomy	G+S
Reversal of sterilisation	G+S
Laparoscopic removal of ectopic pregnancies +/- salpingectomy	G+S
All other procedures	G+S

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GENERAL/UPPER GI/HEPATOBILIARY SURGERY

PROCEDURE	PRE-OPRESERVATION TARIFF
Oesophagectomy	G+S
Oesophagectomy + gastrectomy	G+S
Gastrectomy (any type)	G+S
Pancreatectomy	G+S
Liver resection	G+S
Splenectomy	G+S
Laparoscopic splenectomy	G+S
Open hiatus hernia repair	G+S
Cholecystectomy	G+S not required
Oesophageal dilatation	G+S not required
Elective sclerotherapy	G+S not required
ERCP	G+S not required
Emergency explorative laparotomy	G+S
Emergency appendicectomy	G+S not required
Other emergency surgery	As indicated by requesting clinician
GI haemorrhage	No of units indicated by requesting clinician

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LIVER TRANSPLANTATION

PROCEDURE	PRE-OP RESERVATION TARIFF
Orthoptic liver transplantation	5 U RCC

An individual clinician can over-ride the MSBOS if deemed appropriate; this may occur in transplants for fulminant hepatic failure, when FFP and platelets may also be required pre-operatively.

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