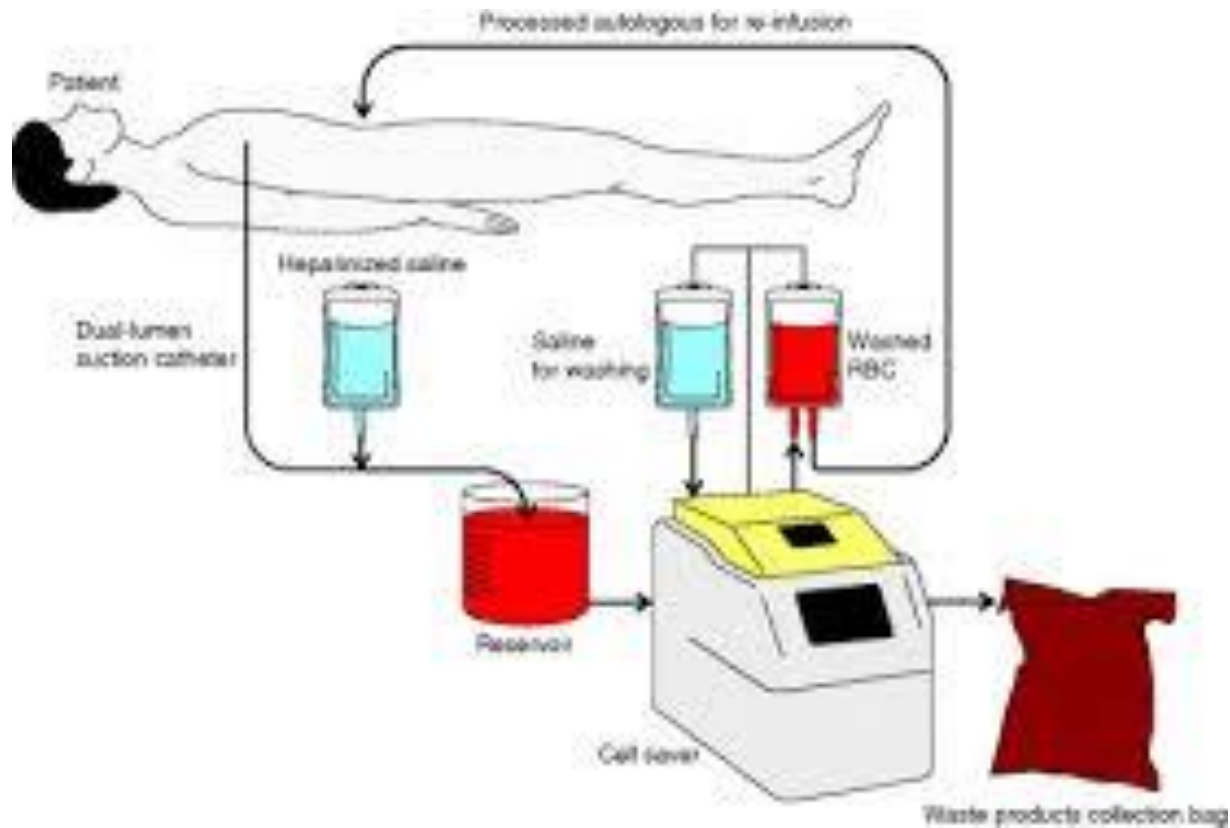


AAGBI 2018

Intra-op Cell Salvage Guideline

Paul Wyatt ST5



C/I 'no absolute C/Is'

Absolute – HIT if using heparin (acid citrate dextrose alternative),
Pt refusal (JW- may be OK with continuous circuit)

Relative - Ca, infection, sickle cell disease

Reinfusion – label name, DOB, PIN, expiry of CS blood

Suggested Cases

- Cardiac
- major vascular
- major hepatobiliary;
- major spinal surgery
- arthroplasty surgery, esp revision hip
- major urological surgery
- thoracic, abdominal and pelvic trauma;
- Obstetric procedures and MOH

Intra-op CS recommendations

- 1 If it's expected to reduce allogeneic (donor) red cell transfusion and/or severe postoperative anaemia. Give alongside TXA.
- 2 CS equipment and staff trained to operate it be immediately available 24h where blood loss is a recognised complication.
- 3 Collection of blood for potential CS ('collect only' mode) should be considered for surgical procedures where blood loss may exceed:
 - 500 ml (or >10% total blood volume) in adults
 - > 8 ml.kg (>10% total bv) in children weighing > 10 kg.
- 4 Each hospital should have both a nominated clinical lead and a coordinator for cell salvage, who oversee training programme for staff and ongoing data collection/audit.

Intraop CS

5. Malignancy or infection, an explanation risks and benefits to the patient and specific consent should be obtained.
- 6 Consider leucodepletion filters for salvaged blood in cancer surgery and blood from an infected surgical field. Mixed evidence in obstetrics.
- 7 Poor evidence for routine CS during LSCS. Consider CS in the 'collect only' mode for LSCS pts who are:
 - Anaemic pre-op, high risk haemorrhage
 - Unanticipated bleeding intraop.

Cell Salvage Summary

- Use if Low Hb/ expected bleeding to reduce
 1. PRC Tx
 2. Post op severe anaemia
- Threshold blood loss >500ml/10% TBV adults
>8ml/kg / 10% TBV paed
- Consent if malignancy/infection, use leuco filters
- Low evidence LSCS, collect mode unless (1) or unanticipated loss intraop
- Clinical lead CS train staff, data collect and audit
- 24h availability of equipment and trained staff.