

Intraoperative Cell Salvage (ICS) Database Report April 2023 – March 2024

Highlight Summary



2189 All Wales Intraoperative Cell Salvage Data Collection Forms



All 6 Wales HBs submitted

Elective use



66%

Emergency use



30%

Not stated

4%

56% of Obstetric use..
31% of General use..
31% of Vascular use..
..was emergency use

Volume of red cells processed

39%

of collections **not processed**:

- mostly due to inadequate volume collected,
- this included 69% of the Obstetric use.

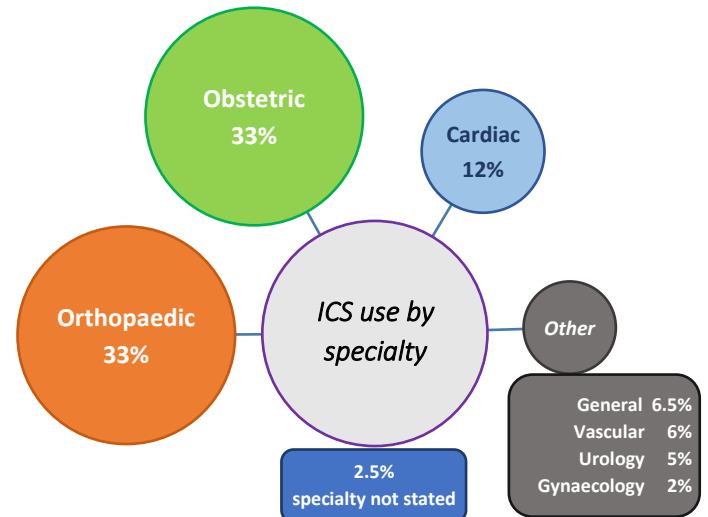
61%

of collections **processed**:

- median total volume processed for reinfusion was **236mL**

- >100mL was processed in over 50% of ICS uses in 3 HBs, and in 49%, 45% and 35% in the others (all comparatively smaller users of ICS).

- Greatest number of very large volumes (>1251mL) processed were in Cardiac and Vascular.



Over 70% of submissions were on the revised ICS data collection form introduced in April 2023:

- 19% provided data on post-procedure patient haemoglobin
- 12% gave data on allogeneic red cells transfused perioperatively
 - however, it appeared that a number of these were erroneously reported
- OPCS procedure code had a high level of non-completion

Recommendations & Next Steps

- Review hospital level data re: number of forms submitted and evaluate if reflective of ICS activity, and if not address underreporting
- Review hospital data re: 0mL processed for reinfusion, with specific emphasis on ICS use in orthopaedics; look in to causes of this and ways to minimise occurrence
- Embed the practice of haemoglobin measurement in recovery/post-operative period
- Promote/support correct and accurate recording of procedure OPCS code, volume of processed blood for reinfusion, and allogeneic red cells given
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- Agree procedures to use key performance indicators (KPIs) for ICS use with each hospital
- The full ICS report including HB specific data is available from WBS.bloodhealthteam@wales.nhs.uk