

Intraoperative Cell Salvage (ICS) Database Report April 2022 – March 2023

Highlight Summary



2038 All Wales Intraoperative Cell Salvage Data Collection Forms



All 6 Wales HBs submitted

Elective use



70%

Emergency use



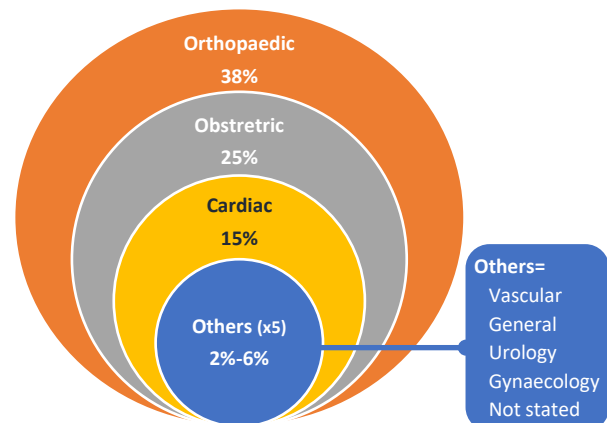
24%

Not stated

6%

51% of Obstetric use..
28% of General use..
27% of Vascular use..
..was emergency use

ICS use by specialty



Volume of red cells processed

37%

of collections **not processed**:

- mostly due to inadequate volume collected,
- which included 61% of the Obstetric use.

63%

of collections **processed**:

- median total volume processed for reinfusion was **243mL**

🔴 All except one of the HBs processed >100mL in at least 50% of ICS uses (the one outlier did so in 49% of uses).

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



There was wide variation in submission by HB and by specialty, but unable to determine if underreporting was an issue.

The revised data collection form being introduced in April 2023 will gather data on:

- pre- and post-procedure patient haemoglobin
- number of allogeneic red cells transfused perioperatively
 - it is anticipated that this will evidence the impact of ICS use



Recommendations & Next Steps

- Establish a robust mechanism for determining hospital specific denominator data of surgical activity
- Review hospital level data re: number of forms submitted in 2022-23; determine if accurate reflection of ICS activity, and if not formulate an action plan to address underreporting
- Provide ongoing support for staff re: full & correct completion of All Wales ICS Data Collection Forms
- Undertake a survey of surgical procedures performed in each of the hospitals in Wales
- Undertake a survey of the perioperative use of allogeneic red cells
- Establish key performance indicators for the use of ICS
- Review hospital level data re: 0mL processed for reinfusion due to inadequate volume collected; where indicated, formulate an action plan to scrutinise this further and optimise use
- The full ICS report including HB specific data is available from WBS.bloodhealthteam@wales.nhs.uk