SWICS 2019

Intraoperative Cell Salvage activity across the South West UK

Aims

- Present overall & comparative data
- Highlight some differences what can we learn?
 - Processing & Reinfusion rates
 - EBL vs salvaged RBCs
 - Maternal Anaemia
- Hospital Order maintained to aid interpreting graphs (same position on each graph even though aesthetically not always pleasing!)

SWICS Summary

Bournemouth

Derriford

GWH

NBT

Poole

RCHT

Taunton

Torbay

5951 cases

>2400 re-infused

41% re-infused

>725
litres
salvaged

359 cases >450ml reinfused

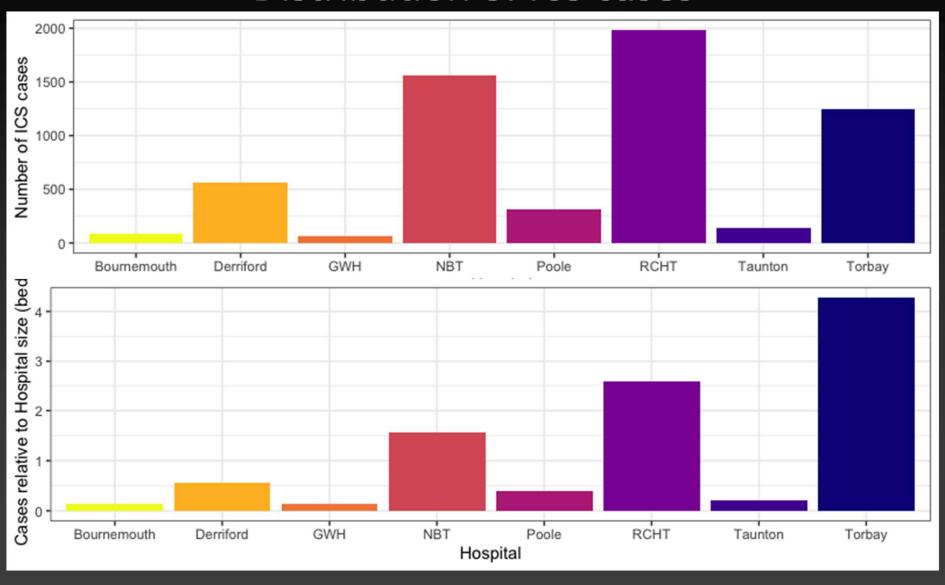


What data?

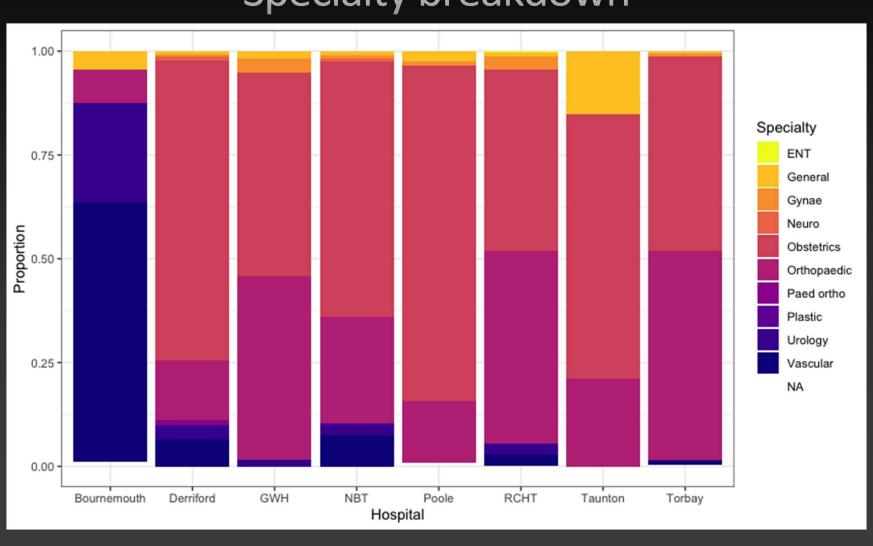
... and who

	Bournemouth	Derriford	GWH	NBT	Poole	RCHT	Taunton	Torbay
Date	√	√	√	√	√	√	✓	✓
Procedure	√	✓	>	✓	>	√	✓	✓
Specialty	√	✓	\	✓	✓	√	✓	✓
Pre-op Hb	X	✓	√	✓		√	✓	X
Status (Coll / Proc)	✓	✓	√	✓	√	√	✓	✓
sRBC Reinfused	✓	✓	√	✓	√	√	✓	✓
EBL	√	X	√			√	✓	✓
TXA	Χ	X	√	√	√	√	✓	✓
JW	X	X	√	√	√	√	√	X

Distribution of ICS cases



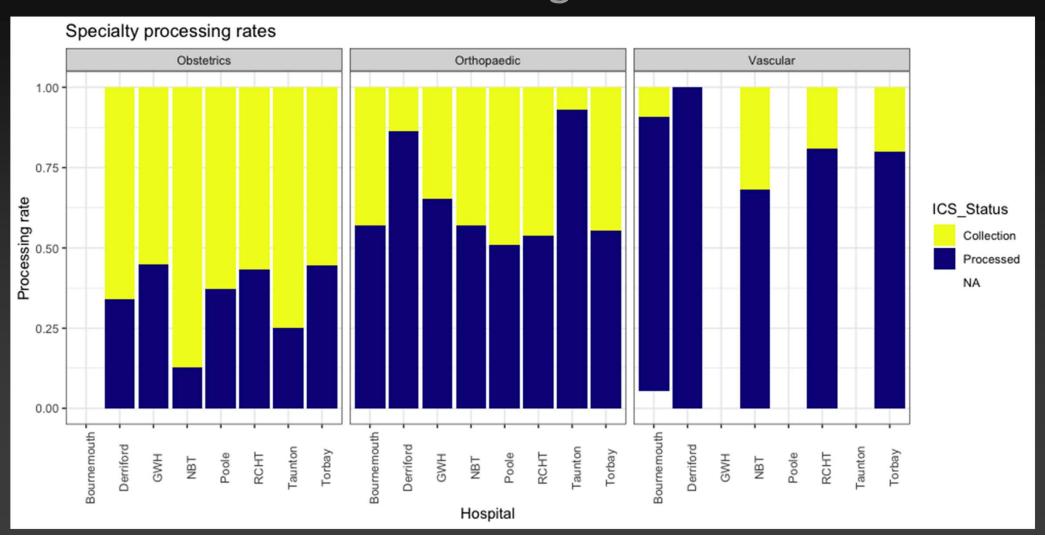
Specialty breakdown



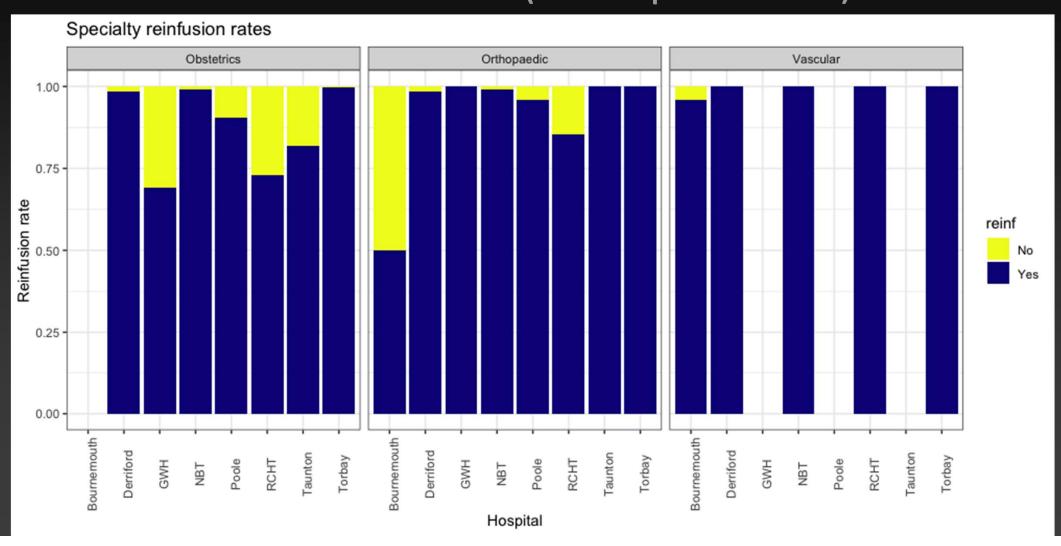
Processing rates

- Routine provision vs high risk cases (difficult to predict)
- Balance cost effectiveness, environmental impact & clinical benefit.
- Optimimum processing rate?
- Processing for training?

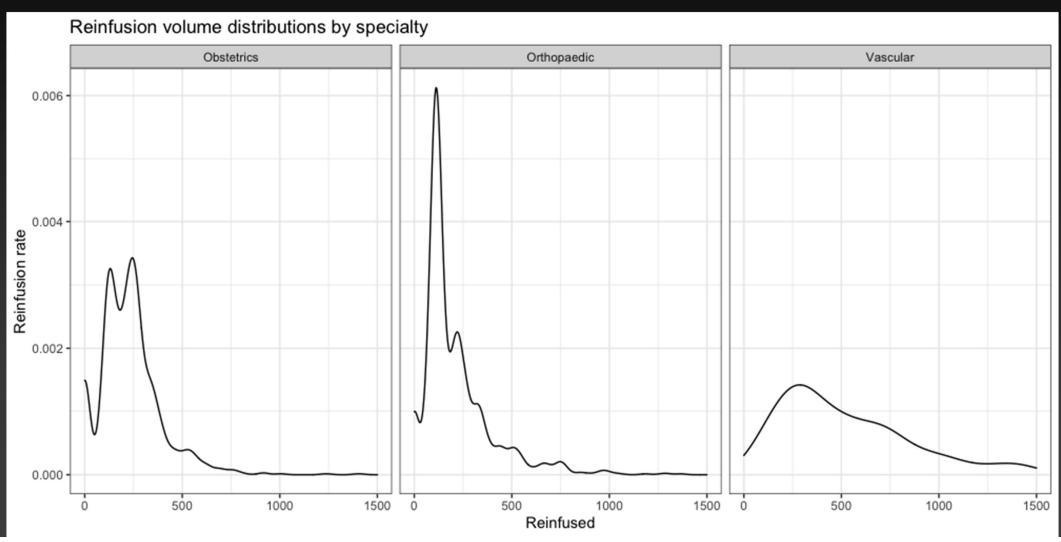
Processing rates



Reinfusion rates (when processed)



Reinfusion volumes



Obstetric cases

Balancing benefit of processing, reinfusion & volumes

NBT

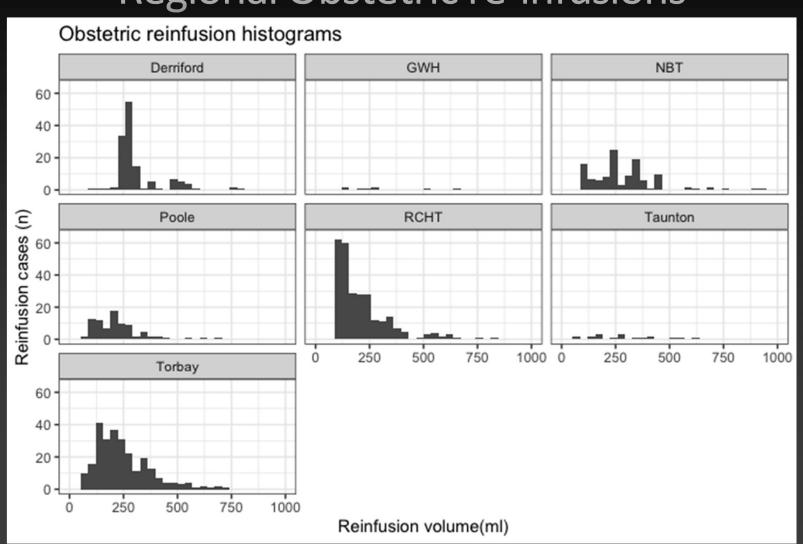
- lowest processing %
- high re-infusion %

RCHT

- high processing %
- lower re-infusion %

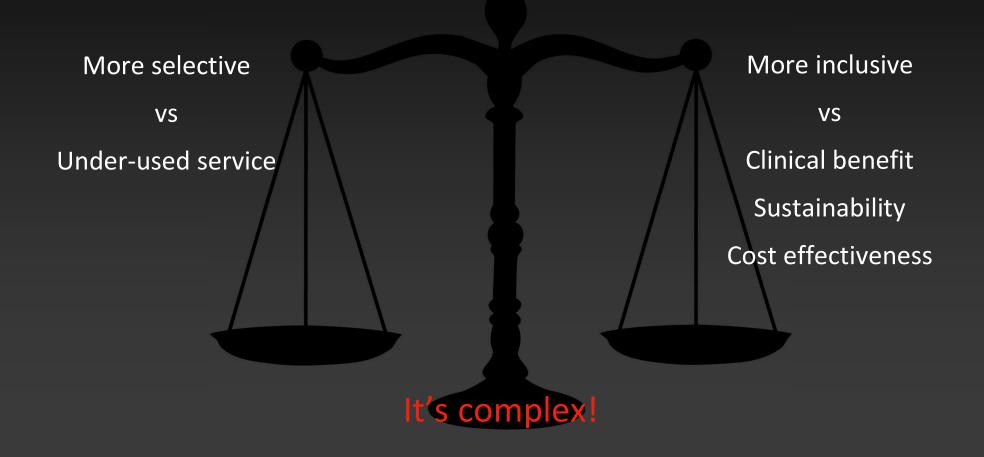
	Number	Mean Vol Reinfused (ml)		
GWH	9	472		
NBT	121	322		
Derriford	136	314		
Taunton	18	289		
Torbay	260	248		
Poole	87	232		
RCHT	272	214		

Regional Obstetric re-infusions



Usage vs re-infusion rates

Where is the balance?



Re-infusion data All Specialties

	Hosp	Operation	Vol Re-inf
1	RCHT	Spleen	5917
2	Bournemouth	AAA	3868
3	Derriford	AAA	3660
4	RCHT	AAA	2905
5	GWH	rTHR	2829

• Range: 43 - 5917 ml

• Total: 725,267 mls (~3,500 units RBCs)

• 41% reinfusion rate

• 2435 Patients

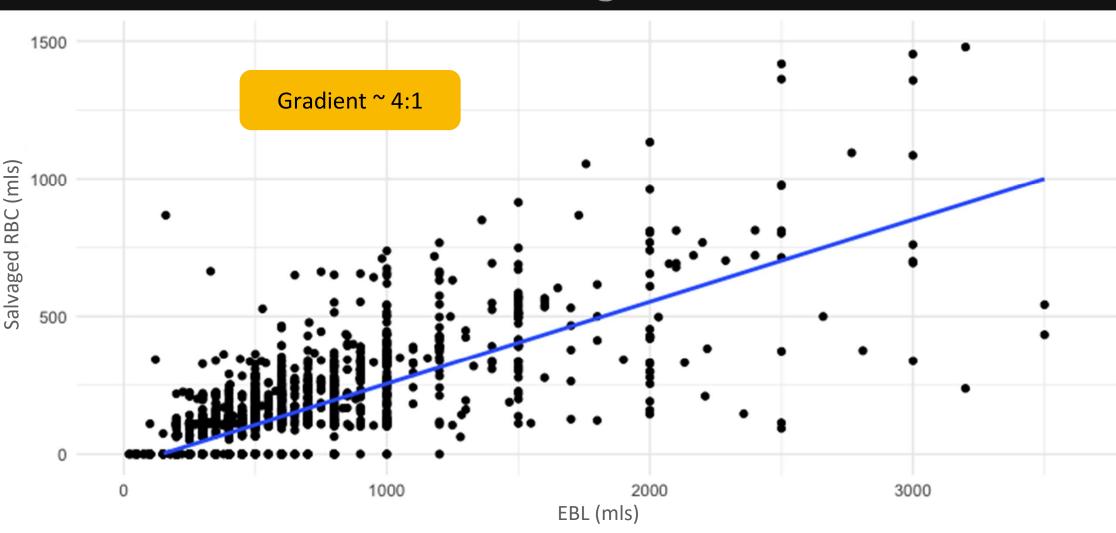
• 5 JW patients (233 - 540ml)

• 359 patients >450ml

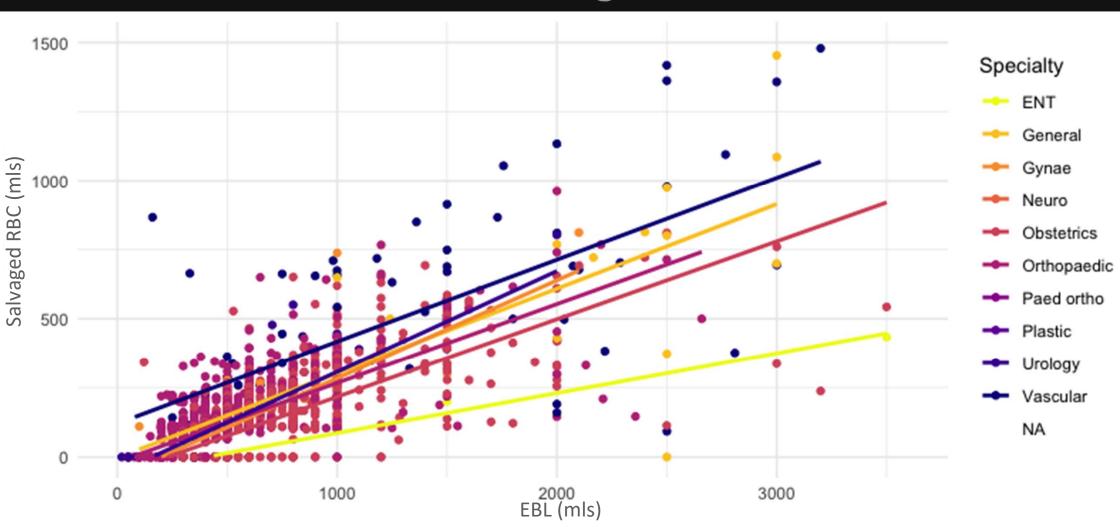
• 1 per day

• 1795 patients >125mls (30%)

EBL vs Salvaged RBC



EBL vs Salvaged RBC



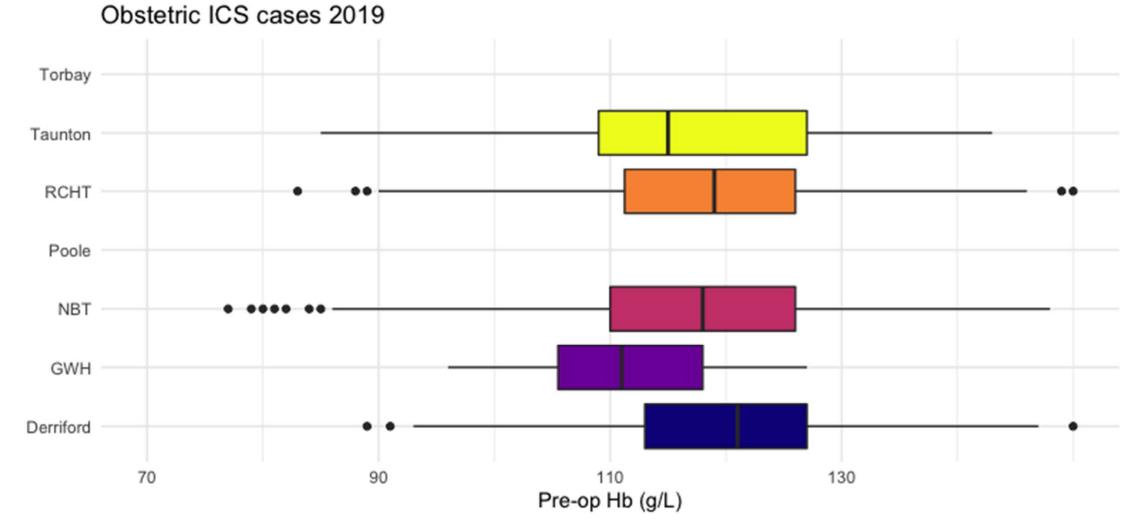
Comparative Maternal Anaemia

- All Obs cases (not just CS)
- Em / El
- Only with ICS used

• Selective Obstetric users may treat anaemia as risk factor & Is ICS used more when patients anaemic as indication of high risk??

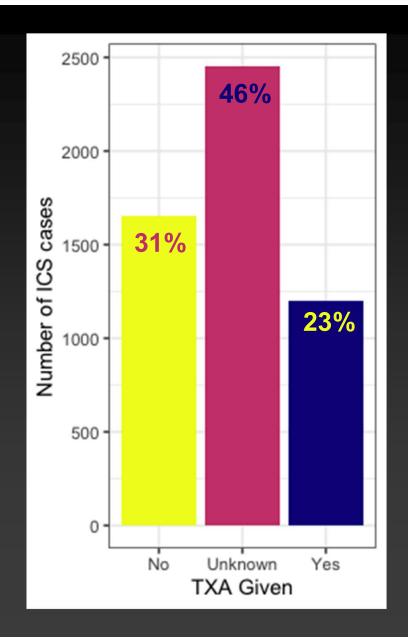
Comparative Maternal Anaemia





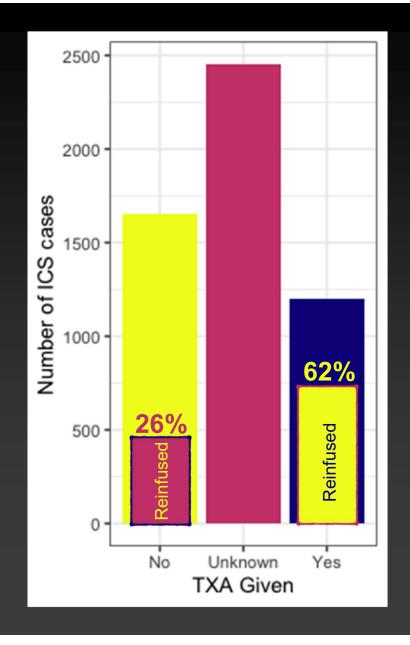
TXAFood for thought

- NICE
- PBM Indicator for RTC & NCA
- Most (6/8) recorded its use (5302 cases)
- TXA is given less often then not...



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Conclusions

- Strong & collaborative approach to ICS in the SouthWest region
- Differences in our practice
- Similarities in our data
- Distribution of pre-op Maternal Hb appears similar across SW
- We probably don't give enough TXA (?)
- Need good quality data

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