OBS CYMRU The Obstetric Bleeding Strategy for Wales

'Working Together to Reduce Harm from Postpartum Haemorrhage'

Elinore Macgillivray and Donna James, 1000 Lives Improvement On Behalf of the All Wales OBS Cymru Collaborative

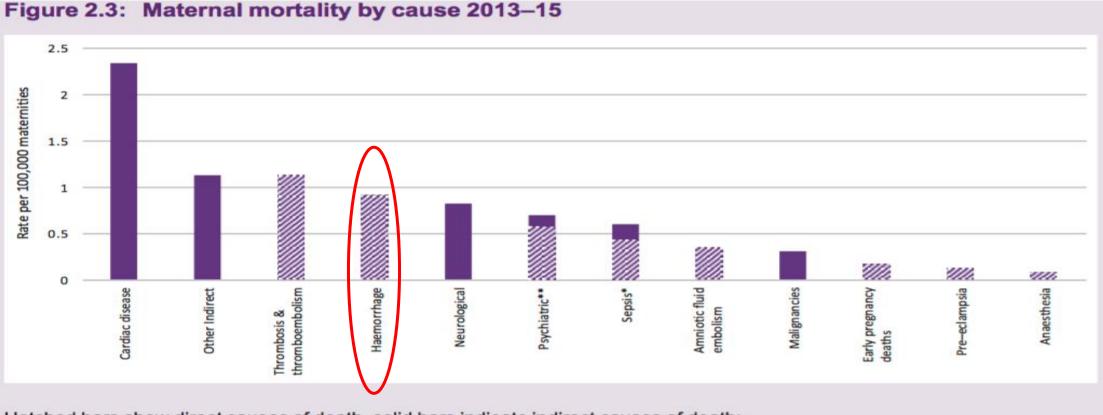


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Identifying the Problem



Hatched bars show direct causes of death, solid bars indicate indirect causes of death;

*Rate for direct sepsis (genital tract sepsis and other pregnancy related infections) is shown in hatched and rate for indirect sepsis

(influenza, pneumonia, others) in solid bar

**Rate for suicides (direct) is shown in hatched and rate for indirect psychiatric causes (drugs/alcohol) in solid bar Source: MBRRACE-UK







All Wales Aim

To reduce harm from postpartum haemorrhage

- Reduce the number of women receiving more than 4 units of RBC
- Reduce the number of >2500ml PPH
- Reduce the number of women undergoing hysterectomy for PPH
- Reduce the number of ITU admissions due to PPH
- Reduce fresh frozen plasma (FFP) usage



Right woman, right time, right team, right treatment





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Research into Practice

International Journal				
CASE REPOI	International Journal of Obstetric Anesthesia (2011) 20 , 135–141 0959-289X/\$ - see front matter Published by Elsevier Ltd. doi:10.1016/j.ijoa.2010.12.002			
The use of	ORIGINAL AR	International Journal of Obstetric Anesthesia (2015) 24, 8–14 0959-289X/\$ - see front matter © 2014 Elsevier Ltd. All rights reserved. http://dx.doi.org/10.1016/j.ijoa.2014.07.009	CrossMark	
hypofibriı	Standard h haemorrha	ORIGINAL ARTICLE	ELSEVIE www.obstetanesthesia.org	
S.F. Bell, R.	Measurement of blood loss during postpartum haemorrhage			
Department of Ai	f Ai L. de Lloyd, ^a R P.W. Collins ^b Department of ^a Anae of Medicine, Cardiff G. Lilley, ^a D. Burkett-st-Laurent, ^a E. Precious, ^b D. Bruynseels, ^a A. Kaye, ^c J. Sanders, ^{c,d} R. Alikhan, ^b P.W. Collins, ^{b,e} J.E. Hall, ^{a,e} R.E. Collis ^a ^a Department of Anaesthetics and Pain Control, ^b Department of Haematology, ^c Department of Obstetrics, Cardiff and Vale University Health Board, UK, ^d Institute of Translation, Innovation, Methodology and Engagement, South East Wales Trials Unit, ^e Institute of Infection and Immunity, Critical Illness Research Group, Cardiff University School of Medicine, UK			



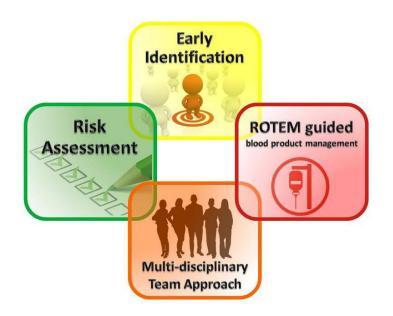




A Structured Approach

4 pillars of intervention based on:

- Measurement of blood loss
- Risk Assessment for all women
- Multidisciplinary working
- POC coagulation testing to guide blood product usage



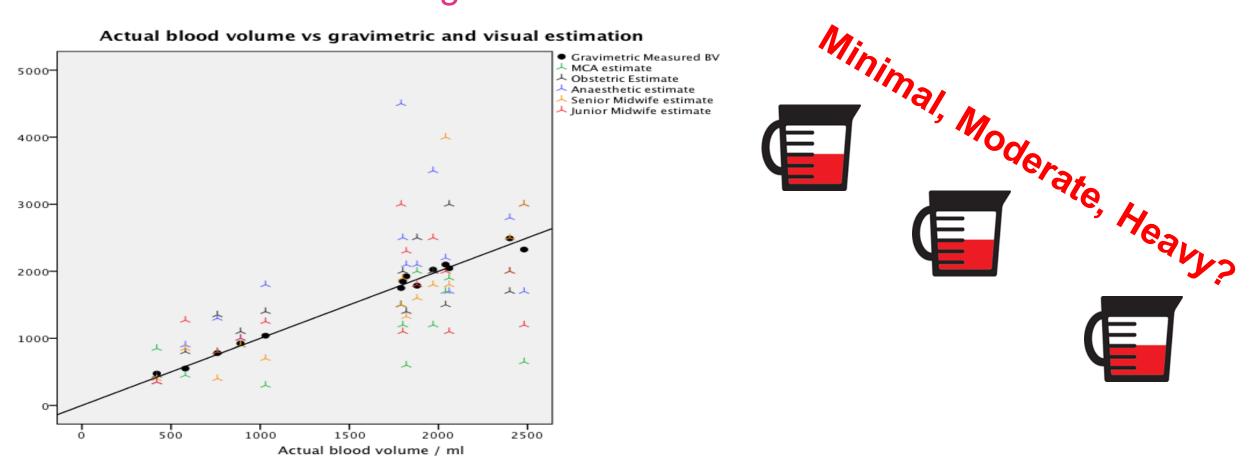






Why Measure Blood Loss? We're Good at Guessing!











It's Your Turn









Measuring Blood Loss Creating a Common Language

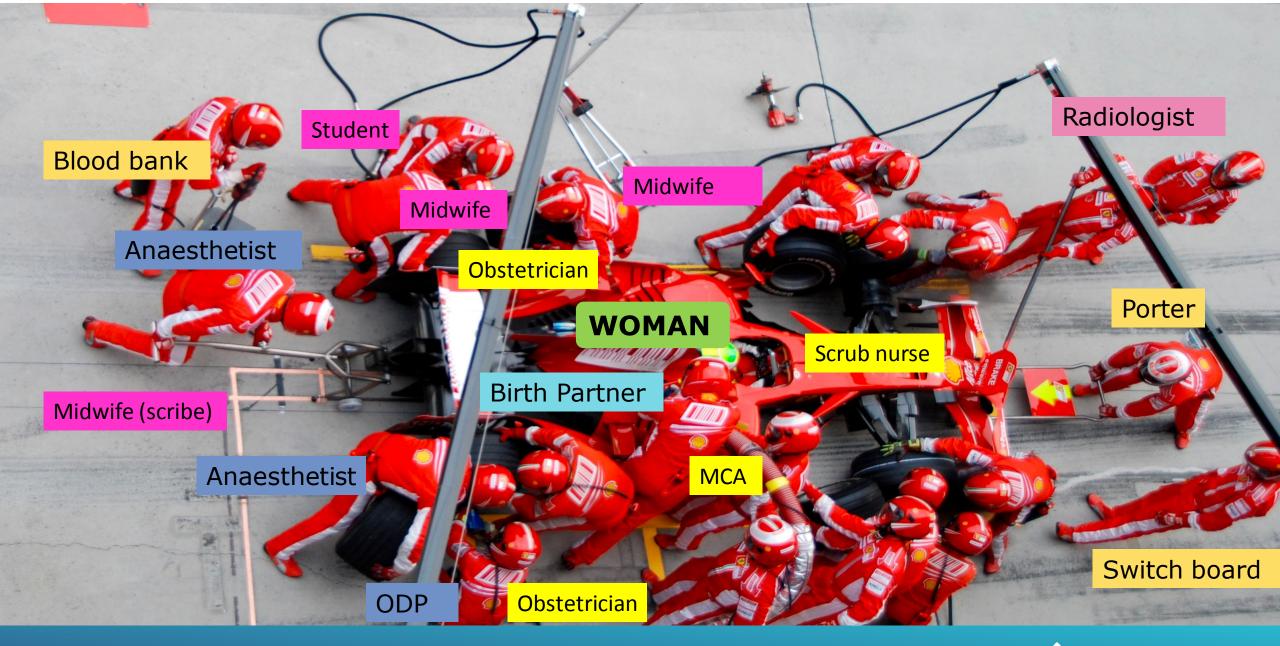




- Measured blood loss
- Clear communication
- Early mobilisation of staff
- Standardisation of care
- Documentation and risk review







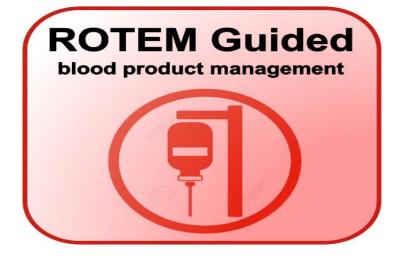


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Point of Care Testing

For appropriate blood product management









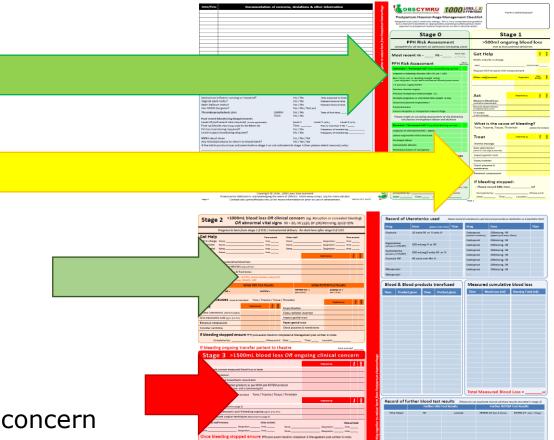
4 Stage Checklist Reducing Variation in Practice

• Stage 0 Risk Assessment

• Stage 1 MBL >500ml blood loss

• Stage 2 MBL >1000ml or clinical concern

• Stage 3 MBL >1500ML or ongoing clinical concern









Measuring the Impact

OBSCYMRU - All-Wales SuperUnit

Individual-level data

Run Charts Funnel Plots

Logout

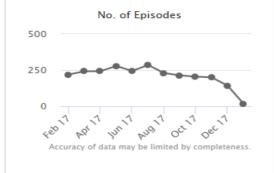
Individual-level data

Enter information on the management and outcomes of episodes meeting any of the following criteria:

- ≥ 1000 mL of blood lost
- Any blood products given (within 1 week of delivery)
- Any ROTEM was performed
- Woman transferred to ITU
- Woman underwent a hysterectomy
- Woman died

Run Charts

View monthly charts of the data, including process and outcome measures.



Funnel Plots View variation across Wales. PPHs ≥ 1.5L per 1000 Maternities Jan 2017-Oct 2017 60 40 40 40 40 40 40 40 5.5k Accuracy of data may be limited by completeness.

Download data

Download Individual-level data in Excel format, including ROTEM, blood gas and lab test results.



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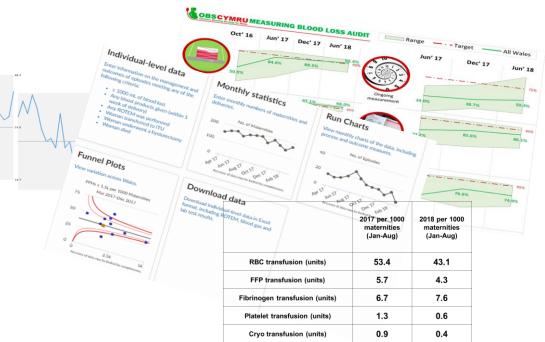


Results and Successes

- Over 90% of women in Wales now have their postnatal blood loss measured
- Reduction in RBC and FFP use across Wales
- Reduction in ITU hours

Additional Successes

- Reduction in national variation
- Embedded positively in 100% health boards
- Adopted by PROMPT Wales

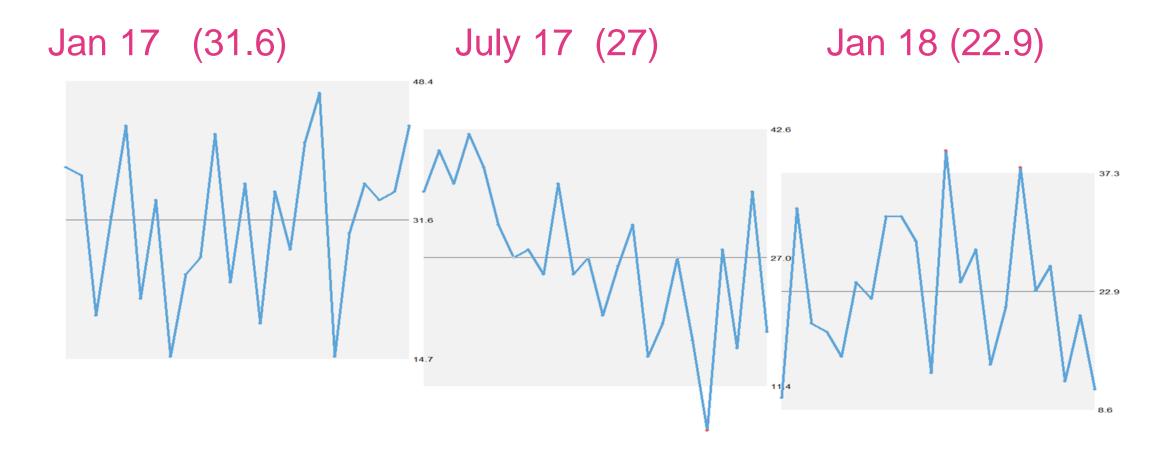








All Wales Weekly RBC Transfusion







'Impressed by staff'

'Midwife was amazing'

'...a very scary experience, but the midwives and doctors were amazing, I couldn't fault them'

'It was handled and communicated at the time very clearly'



In Summary

Anticipate – Risk Assessment

Early identification of haemorrhage Measure all blood loss

Escalate appropriately To enable prompt multi-disciplinary team care

Communicate to team and woman/birth partner

ROTEM Guided blood product usage

Learn from events

