Gloucestershire Safety and Quality Improvement Academy 2024

A quality improvement project to reduce the rates of postpartum haemorrhage (PPH) and major obstetric haemorrhage (MOH) within Gloucestershire Hospitals NHS Foundation trust – the REDUCE project"

Victoria Cordell, Rachael Harris, Clemmie Skilton, Joanna Collins, Helen Van Der Nelson, Abigail Whittall

REDUCA Marennal Haemorina



Gloucestershire Hospitals **NHS**

NHS Foundation Trust



Statement of the Problem:

March 2024: The Care Quality Commission (CQC) served a notice of intent to our trust: Possible Urgent Enforcement Action – Section 31 of the Health and Social Care Act 2008

Current Situation

- Postpartum Haemorrhage (PPH) >500mls and Major Obstetric haemorrhage (MOH) rates >1500mls appear to be above national rates.
- 2. Delays in identifying, sharing and embedding learning from serious incidents to prevent re-occurrence of similar incidents. Including of recent PPH audit
- 3. There is no clear governance team oversight

SMART Aim

To reduce the monthly rate of postpartum haemorrhage (PPH) >500mls from 41% to below the national average PPH rate of 25% of births and major obstetric haemorrhage (MOH) >1500mls in Gloucestershire Royal Hospitals NHS Foundation Trust from 5% to 3% in 6 months

Outcome Measure

Reduction in the rates of PPH and MOH (%)

Process Measures

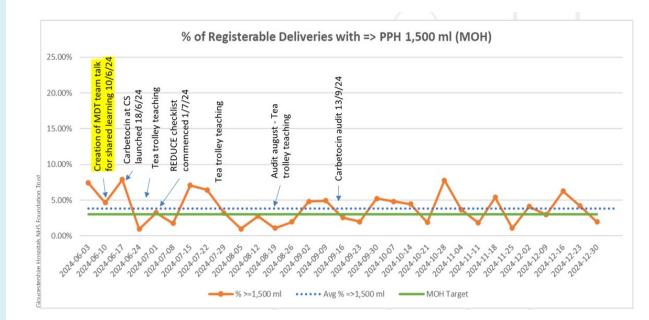
- Compliance with completion of antenatal risk assessment at booking at 36 weeks
- Compliance with admission/ intrapartum risk assessment (REDUCE proforma)
- Compliance with emergency management proforma (stepwise tool) (%)
- Evidence of early identification of risks and distribution of learning through Comms lead and MDT team talk (PSIRF, thematic analysis, production boards, posters)
- PPH/MOH audit

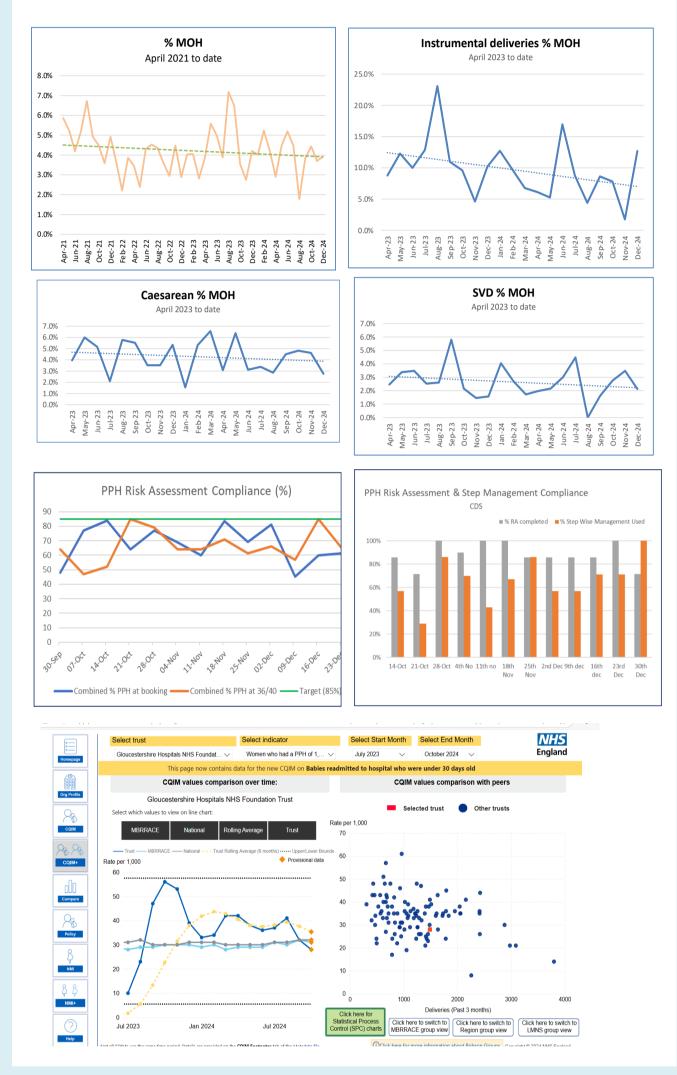
Balancing Measures

- Staff satisfaction (staff feedback)
- Lead midwives: increased time requirement to complete daily audit for production board (negative – time, but positive as ground level identification of immediate safety concerns/ learning)
- Financial balance (carbetocin increased cost but less use of further uterotonics)
- Environmental impact (removal of PPH bundle, less uterotonic infusions used)
- Patient satisfaction (Online survey)
- Length of stay (cost/ patient satisfaction/ improved flow through delivery suite)

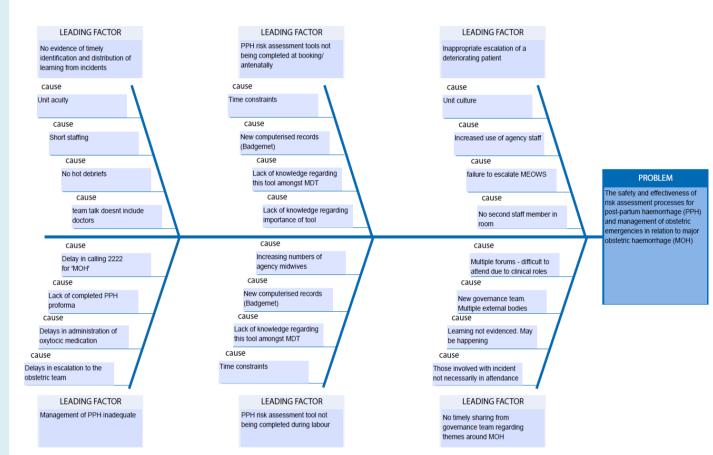
Action Plan / PDSA

Results:





Diagnostics:



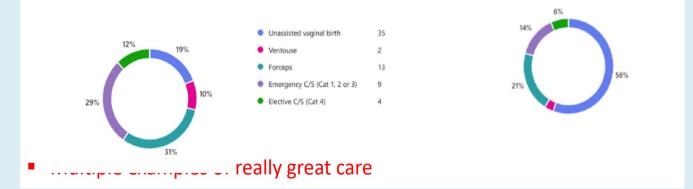
Stakeholder Analysis:

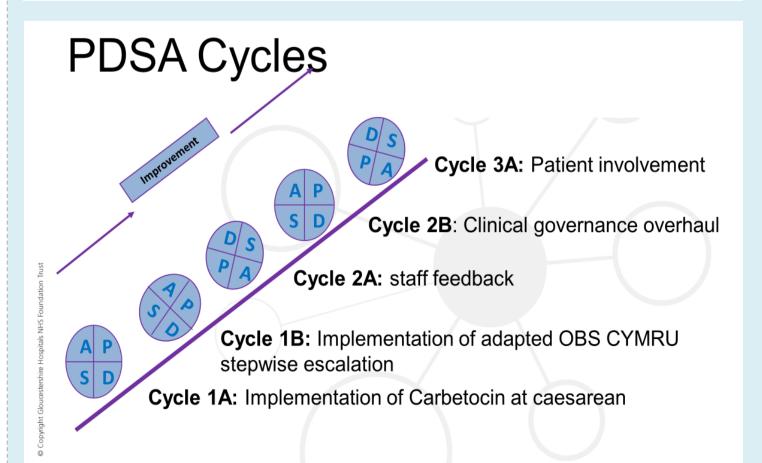
Stakeholder has high	Satisfy:	Manage:	
power over project	Maternity Delivery Group Local Maternity and Neonatal System Trust executives Trust non executives CQC	Obstetric staff Midwifery Staff Anaesthetic staff Theatre staff Governance team	
	NHS England General+ departmental management and departmental leadership		
Stakeholder has	Monitor:	Inform:	
little/ no power over	Support staff	Patients	
project	Admin Staff	Carers	
	Maternity Voices Partnership (MVP) QI/ Audit lead	Families Wider community	
	Project has low/ no impact on stakeholder	Project has high impact on stakeholder	

Action	Date	Action	Responsible	Due	Progress report / Comments	Status	Progress
Ref 1	commenc € -↑ 10/06/2024	Weekly meeting of intrapartum leads to	RH/VC	ongoing	/ Request numbers version vers	• On Target	In progress
2	10/06/2024	create MDT team talk Engagement with Badgernet digital midwives	CS/RH/VC	10/06/2024		Complete	Complete
3	10/06/2024	Tea Trolley teaching	CS/RH/VC	10/06/2024	Tea Trolley teaching. Mon- Friday. 3 week period	Complete	Complete
4	13/06/2024	Carbetocin SOP written			Email ratification	Complete	Complete
5		Launch Carbetocin use at CS	JC	18/06/24		Complete	Complete
		REDUCE Q&A with community midwifery	CS				
6	25/06/2024	team		25/06/2024	? For facebook live. To arrange	Complete	Complete
7		Meeting with MNVP	CS	26/06/2024	another meeting/ social media	Complete	Complete
8		Reworking of proforma Review of place of birth policy in line with	CS	28/06/2024		Complete	Complete
9	02/07/2024	REDUCE risk assessment	CS/RH/VC	02/07/2024		Complete	Complete
10		Addition of MOH onto Risk Register Use of REDUCE proforma in PROMPT		ongoing	Ongoing updates required	On Target	In progress
11	10/07/2024	emergency skills and drills training QIG presentation of REDUCE updates	CS/ SAt	ongoing	Run 11x year. Yearly	On Target	In progress
12	12/07/2024	fortnightly	RH/VC/ CS	ongoing		Complete	Complete
13	13/07/2024	Allocation of PPH Champions	RH	13/07/2024	Help support on shop floor	Complete	Complete
14	17/07/2024	REDUCE checklist launched	CS/RH/VC/JC	01/07/24	tea trolley teaching, comms learning	Complete	Complete
15	17/07/2024	Risk assessment audit commenced	RH	01/07/24	Once reassured by numbers to discuss with Lisa Stephens re. audit volume	Complete	Complete
16		MOH board amendments Badgernet risk assessments deleted by	JC/DD	Ongoing	DD update. Final approval gained 14/1/24. To create laminate version first before final board created.	On Target	In progress
17	17/07/2024	digital team - incorrect		24/07/2024	Reinstated RH to follow up with KM &	Complete	Complete
18	19/07/2024	MNVP to ascertain via psychology team the suitability and feasibility of a patient focus group with patients who experienced a >1500ml PPH	RH/HVD	ongoing	work with HVD & R&D. HVD meeting 10/10 R&D Matron (Pauline Brown)for GRH will feedback findings	Complete	Complete
19	22/07/2024	Run charts (A2)- MOH, PPH & RA compliance	RH/CS	ongoing	Alex Purcell (AP) producing, MOH & PPH at printers (check), awaiting weekly data for total from Nikki Keenan (NK), then need to send to AP. Delivered 11/10. Regularly updated by REDUCE team manually. Moved to monthly 17/01/25	Complete	In progress
20		ROTEM buisness case, +/- cell selvage Social media patient update regarding	JC	ongoing	JC to update	Complete	Rejected
21 22	01/08/2024	project through MNVP Audit August	CS/RH/VC	01/08/2024	Weekly highlight on project	Complete Complete	Complete Complete
23		Stroud PPH skills drill	CS	19/09/2024	Community matrons to feed	Complete	Complete
24	02/08/2024	Community teams to audit 10% booking & 36/40 RA and add to production boards Staff feedback of REDUCE proforma via	RB/TJ	ongoing	into project the RA at booking and 36/40.	Complete	Complete
25	02/08/2024	QR code/ F2F Rewrite of postpartum haemorrhage	CS	02/08/2024		Complete	Complete
26	02/08/2025	guideline and related documents Incident review process changed to align	VC/RH	09/09/2024	Email ratification reviews within 24-72hrs of	Complete	Complete
27	10/08/2024	with PSIRF Staff feedback of REDUCE proforma via	SA	ongoing	incident	Complete	Complete
28	30/08/2024	QR code/ F2F	CS	30/08/2024		Complete	Complete
29		REDUCE team meeting to review progress	CS/RH/VC/JC	02/09/2024		Complete	Complete
30 31		RA data coordination QIG slide update	RH RH/VC/CS/JC	ongoing 15/10/2024	Link with NK	Complete Complete	Complete Complete
32	06/09/2024	create example of PPH proforma & display on CDS/BU/Stroud	CS	13/09/2024		Complete	Complete
33	06/09/2024	Action plan to focus on weighing ongoing blood loss in theatre following MDT review 06/09	RH/AW	ongoing	DD managing education campaign for HCA team who monitor blood loss	On Target	In progress
34	06/09/2024	Review of patient information available to women (RCOG Leaflet/ badgernet).	?	/ /	Not started		
35 36		Stroud PPH skills drill + staff feedback WHO checklist amendments in theatres	JC	19/09/2024 01/11/2024	JC to amend to state "3rd stage/PPH management plan". To await whole theatre board update. Temporary solution created	Complete Complete	Complete In progress
37	10/10/2024	Divide the vaginal and C/section PPH & MOH data	CS	ongoing	Once reassured by numbers to discuss with Lisa Stephens re. audit volume	Complete	Complete
38	18/11/2024	Distribution of learning on importance o fconsidering tone. Putting pressure on wounds	HVD	18/11/2024		Complete	Complete
39	01/12/2024	Microsoft forms thematic analysis for MOH/ PPH - overdue incidences	AB	ongoing	>150 overdue incidences due to contradictory external advice.	On Target	
40	10/12/2024	Addition of theatre personnel to MDT team to ensure full MDT represented	AmW/DD/NB	10/12/2024	To invite to next REDUCE meeting	Complete	Complete
41	11/12/2024	Meeting with patient experience team to rediscuss patient focus groups/ online survey Focus group with delivery suite	HVD	11/12/2024	agreed online survey. Being created	On Target	In progress
42	03/01/2025	cooordinators, registrars and practice	CS/RH	03/01/2024		Complete	Complete
43	10/01/2025	facilitators to help make improvements QIG presentation of REDUCE updates monthly	RH/VC	ongoing	agreed move to monthly	On Target	In progress
44	13/01//2025	Introduction of oxytocin infusion for all vaginal/ instrumental births with loss over 1000mls	RH/VC	13/01/2025	Agreed at intrapartum forum10/1/25. Learning distributed via MDT team talk	On Target	In progress
45	14/01/2025	REDUCE team meeting to review progress	RH/VC/CS/HVN/ AW/AW	14/01/2025	new tasks allocated	Complete	Complete
46	14/01/2025	Teaching session for registrars around improving documentation at delivery and new REDUCE changes	AbW	31/01/2025	Already distibuted on 5 different MDT team talks	On Target	
47	17/01/2025	Update REDUCE proforma	JC		To remove 100mls/kg to take into account unreliability of raised BMI. New graph to be used		

Thematic analysis:

- Absent or inadequate obstetric documentation of instrumental delivery / complex suturing
- No IV Oxytocin infusion as bleeding thought to be from tear
- MOH call not made
- Midwife/Dr unaware of blood loss until after procedure
- Delay in quantifying Cell salvage
- No AN risk factors = most common, caesarean section = intrapartum RF
- Trauma 39%, Tone 36%, Tissue 17%
- MOH vs PPH:





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Proposed Governance Changes

- Recognition that MOH/PPH will vary. Need 12 months minimum ongoing monitoring. Run charts to move to monthly
- Continue with PSIRF but midwife to review of all incidents of PPH/MOH.
 MDT review if concerns raised
- Microsoft forms for each case after review of Badgernet/ REDUCE tool
- Ongoing identification of themes with the QI with distribution of learning through intrapartum forum and escalated to oversight and assurance
- Once backlog cleared, proposal of how to go forward (PSIRF recommends proportionality of reviews)
- If active QI project ?each individual Datix doesn't need to be reviewed.
- We need to make a decision going forwards whether we review:
 - Cases where there is a concern voiced by the reporter
 - Cases over a certain quantity
 - A sample of each 'band' each month, e.g. 20 PPH 500-999ml, 20 PPH 1-1.49L. 20 cases of MOH over 1.5L
 - A sample of loss over a specified percentage of circulating volume

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