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Operational Excellence

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Reducing PostPartum Hemorrhage Rates at Maine Medical Center

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Project Title: Reducing PostPartum Hemorrhage Rates at Maine Medical Center

Last Updated: 4/17/3023

Executive Sponsor: Meaghan Smith, Director - Nursing, MMC Birth Center

Facilitator: Colette Dumais, Manager - Nursing, MMC Birth Center





In the United States, approximately 700 women die each year from pregnancy related deaths and the most frequent cause of preventable maternal mortality is obstetric hemorrhage. The postpartum hemorrhage (PPH) rate at Maine Medical Center (MMC) is three times the national average. At our facility we care for the most complex patients in the State and we must decrease our rate to accurately reflect our expertise, knowledge and skills.

Scope:

In Scope: Hemorrhages that occur at MMC during the patient's postpartum stay

Out of Scope: Hemorrhages that occur outside of patient's postpartum stay

Goal/Objective:

Reduction of total percentage of patients experiencing a hemorrhage, defined by AWHONN and ACOG, as blood loss greater than 1000ml, by three percent.

Baseline Metrics/Current State:

Average PPH Jan 2021 - June 2022 = 20.15 % with a peak of 26.55% in June 2021



Root Cause Analysis:

Team members not aware of each individual patient's level of risk

Tools available in EPIC, but not utilized for every patient Delays in recognition of the severity of the hemorrhage Delays in administering medications during an emergency Identified training gaps for new team members & opportunities to support experienced team members during PPH event

Maine Medical Center

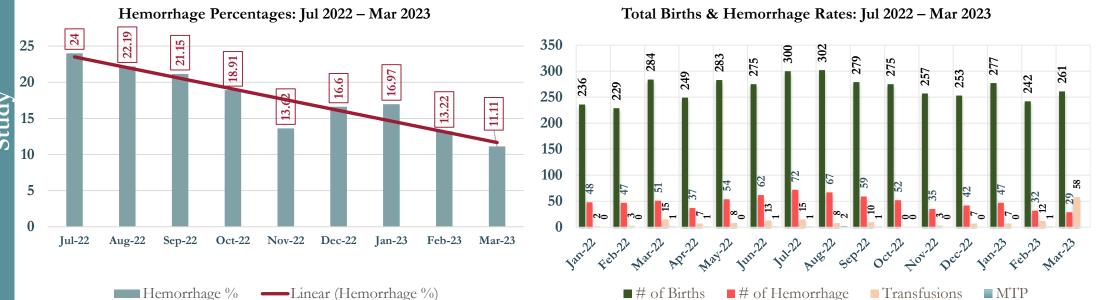
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Action	Owner	Due Date	Status
1.Establish current state, review PPH rates	Labor and Delivery (L and D) leaders	Jul 2022	Completed
2. Conduct chart audits	CNC team	Aug 2022	Completed
3. Complete EPIC flowsheet edits	Colette Dumais	Aug 2022	Completed
4. Continue to accurately document admission/intrapartum, any change in status, update/postpartum. Risk score all patients	L and D RN team	Ongoing	Standard work
5. Use color dots on patient's doors to communicate risk level	L and D RN team	Ongoing	Standard work
6. PPH medication made available at all deliveries, risk level announced at start of case	L and D RN team	Ongoing	Standard work
7. Improve EPIC reports and additional flowsheet edits (specific medication length and administration, dry weight changes)	Colette Dumais	Aug 2022	Completed
8. All team members to complete JADA training	CNC team	Nov 2022	Completed
9. Weekly reporting on PPH rates. Communication to leadership team	Colette Dumais	Ongoing	Standard work
10. New guideline created for PPH and edits to PPH checklist. Education provided to team members	Meaghan Smith	Nov 2022	Completed
11. Change made in delivery of standard post-partum Pitocin – moved to pumps vs free flow	Meaghan Smith	Nov 2022	Completed
12. Skills Fair education provided for all team members (PPH guideline, Red Hat Checklist, JADA)	CNC team	Nov 2022	Completed
13. Continue real time communication with charge RN when in a PPH. Improve RN documentation	L and D RN team	Ongoing	Completed/Ongoin
14. EPIC reports improved again to capture delivery type and medications administered	Colette Dumais	Dec 2022	Completed
15. Updated RN CBO tool to include new measures for all RNs to reduce PPH	Carrie Comeau	Dec 2022	Completed
16. Staff competency review for QBL calculation – all RNS	CNC team	Dec 2022	Completed
17. Mentorship program routine check ins for all new staff review 4 T's of PPH	L and D leaders	Ongoing	Standard work
18. PPH risk added to the L&D EPIC shift handoff tool	Meaghan Smith	Feb 2023	Completed
19. Implemented first AI blood volume scanning device within Maine Health (Triton)	CNC team	Feb 2023	Completed
20. Increase use of Triton - 100% of OR cases, stop OR drape weighing	CNC team	Mar 2023	Completed
21. Medication storage improved with use of cooling kits to increase theoretic stability of med	Meaghan Smith	Mar 2023	Completed
22. Final edits to EPIC reports – additional opportunities to standardize process found	Colette Dumais	Mar 2023	Completed
23. Improve communication strategies with the Anesthesia team at MMC	L and D & Anesthesia	Ongoing	Ongoing

Outcomes

Overall, we have seen a dramatic reduction in our PPH rates. Our since July 2022 PPH = 17% with March 2023 at 11%!

This is attributed to increased PPH risk communication and clear closed looped communication when the team is taking action to stop a hemorrhage



Next Steps

- Continued use of Triton to standardize communication around blood loss in the OR, hardwire this into our process
- Increase education related to PPH risk and response process when onboarding new team members