

Utilization of an Educational Tool by Anesthesia Providers for Breastfeeding Mothers Receiving Anesthesia

Vaunique Brown, BSN, RN, CCRN, SRNA, Nguyen Bui, BSN, RN, CCRN, SRNA and Navjot Hira, BSN, RN, CCRN, SRNA University of Pennsylvania School of Nursing, Philadelphia, PA



HOSPITAL OF THE UNIVERSITY OF PENNSYLVANIA Breastfeeding Screening Frequency ASTEEEDING EDUCATION TOOL FOR ANESTHESIA PROVIDE Breastfeeding Patients Identified in Pre -Operative Phase Summary & Conclusion

- · The educational tool facilitated change in practice by increasing the number of providers recommending resuming breastfeeding as soon as the patient regains consciousness and an increase in preoperative screening frequency.
- · The QI project highlighted discrepancies in current breastfeeding recommendation awareness among anesthesia providers regarding breastfeeding patients receiving anesthesia.
- Although a knowledge gap was identified, the educational tool positively impacted provider awareness and education.

Acknowledgement

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Background & Purpose

- Undergoing surgery & anesthesia can interrupt breastfeeding & lead to early cessation.
- Current ASA & AANA's guidelines encourage the resumption of breastfeeding as soon as the mother regains wakefulness & can safely hold her infant.
- · Due to inconsistencies with adherence to current guidelines from anesthesia providers, this has led to early discontinuation of breastfeeding.
- **Purpose:** To identify if there is a change in anesthesia providers' practice in breastfeeding education using a breastfeeding educational tool.

Method

- Project Design: Quality Improvement (QI)
- Setting: An academic university hospital
- · Participants: anesthesiologists, anesthesia residents, CRNAs, and SRNAs.
- · Primary Outcome: Providers practice change
- · Secondary Outcome: Increase screening of breastfeeding patients & benefit of educational tool
- Pre-Intervention: 4 weeks of chart review & 2 weeks of pre-intervention survey
- Intervention Phase-1 week introduction of tool
- · Post-Intervention: 4 weeks of chart review & 2 weeks of post-intervention survey

PRE-OP Document nursing mother stating pre-op assessment. To maintain breastmilk supply consider peripheral IV hydratil (500 mL – 1 liter), if appropria	tus General, r anesthesia ; breastfeed on Most anes re. and have J	NTRA-OP egional, and local a are safe for ding mothers. sthetics are short-acting less than a 10% relative e, which is safe for ding.	POST-OP Encourage lactating patients to pump or resume breastfeeding when fully alert in PACU.
Sofe Inhalational Anesthetis ¹¹²⁷ Intravenous Anesthetis ¹³⁴⁴ Propofol ¹¹⁷³⁹ , Etomidate, & Dexmedetomidine ^{22,34}	Use with Caution Hydromorphone ^{1-14,40-42} (dose dependent) Ketamine ^{6-10,43-44}	Consider Avoidance Oxycodone ^{1-2,412,85} *limit to 30 mg/day Hydrocodone ^{6-22,42} • Vicodin (hydrocodone w/ acetaminophen) *limit to 30 mg/day	Current recommendations: It is safe to resume breastfeeding once lactating patients are fully alert AND safely able to hold baby. There is <u>NO</u> need to pump and discard breast milk after receiving anesthesia.
Local Anesthetics ^{3,2,4,4,2,5,00} Opioid Analgesics ^{1,5,4,3,2,2} Fentany ^{11,3,3,4} Remifentanil ¹⁹ Morphine ³⁵ Benzodiazepines ^{1,14} Midazolam ³⁸ Neuromuscular blocking & reversal agents ^{2,12}		Prilocale ^{17,5,47} Meperidine ^{1,3,5,44} Diazepam ^{1-4,6-11,14,81,48} Codeine and Tramadol ^{1-2,6-10,49-50}	
Anticholinergic, Sugammadex ⁸⁶ Antienetics ^{24,423} Metoclopramide is a lactogogue Non-Opioid Analgesics ^{24,24,43,37} Acetaminophen, Celebrex, Ketorolac, Gabapentin ⁸²³⁹ "Additional precautions needed in		Droperidol ^{4,7,51} Scopolamine ^{7,9-12}	
*Additional precautions needed in breastfeeding patients with premature		2022). Best practice perioperative guidelines for breastfeedi sital of the University of Pennsylvania Microsoft Teams.	

breastfeeding patients with premature babies and neonates

Medication not listed? Try the Drugs and Lactation Database (LactMed®) https://www.ncbi.nlm.nih.gov/books/NBK50192 lingual breastfeeding education; Academy of Breastfeeding Medicine clinical protocol #15: Analgesia and anesthesia for the breastfeeding s://www.bfmed.org/index.php?option=com_content&view=article&id=42:protocols&catid=20:site-content&Itemid=130





ASA Website

Statement on Resuming

Breastfeeding after

Anesthesia