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Effect of PCEA vs. PCA post Cesarean Section on Perceived Pain and Breastfeeding

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Purpose

To identify the most effective modality for pain management in the post cesarean section patient and its effect on breastfeeding behaviors in the first 24 hours post-operatively.

Background and Significance

- The Pain Resource Nurse on a busy post-partum unit observed that women who received patient controlled epidural analgesia (PCEA) demonstrated enhanced pain relief as compared to women receiving patient controlled analgesia (PCA).
- Nursing staff hypothesized that women who received PCEA were able to breastfeed more effectively.



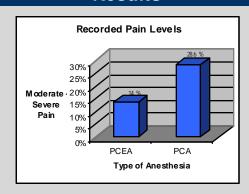
Literature Review

A review of the literature revealed no evidence regarding choice of pain modality and the effect on breastfeeding in post c-section women.

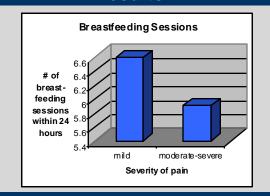
Method

- A Retrospective descriptive comparative correlational study was conducted
- Data extracted from medical records for all c-section deliveries with gestational ages of 34 weeks or greater (N-621).
- Variables evaluated included:
 - Maternal Pain Score
 - Adjuvant Medications
- Latch Scores
- Number of Breastfeeding Sessions

Results



Results



Conclusions

- The best modality for pain relief post-cesarean section was PCFA.
- · Prolonged time to initial breastfeeding (4.2 hours).

Implications

Recommendations for practice changes included:

- Appropriate patients will receive PCEA for pain management.
- Strategies developed to decrease the time of first breastfeeding within 120 minutes of birth:
 - Re-education program for staff on timeliness of breastfeeding
- Staff resources allocated to PACU following C-section delivery to assist with breastfeeding
- Lactation Consultants monitor compliance concurrently.

Outcomes

- Ongoing data reflects an increased PCEA usage in postcesarean section patients from 87.1% to 91.6%.
- After implementation of strategies, time to initial breastfeeding was decreased from 4.2 hours to 1.35 hours.

References

- Dewey, K. G., Nommsen-Rivers, L. A., Heinig, J., & Cohen, R. J. (2003). Risk fadors for suboptimal infant breasfeeding behavior, delayed onset of ladation, and excess neonatal weight loss. *Pediatrics* 112(3), 607-619.
- Gadsden, J., Hart, S., & Santos, A. C. (2005). Post-Cesarean delivery analgesia. Anesth Anala 101: S62-S69.
- Hamilton, B. E., Martin, J. A., Ventura, S. J. (2007). Births: Preliminary data for 2005. National Vital Statistics Reports, 55 (11). Hyattsville, MD: National Center for Health Statistics.
- Kumar, S. P., Mooney, R., Weiser, L. J., & Havstad, S. (2006). The LATCH scoring system and prediction of breastfeeding duration. J HumLact 22(4), 391-397.
- Lim, Y. Jha, S., Sia, A. T., & Rawal, N (2005). Morphine for post-cesarean section analgesia: intrathecal, epidural or intravenous? Singapore Med J46(8), 392-396.
- Rowe-Murray, H., & Fisher, J. R. W. (2002). Baby friendly hospital practices. Cesarean section is a persistent barrier to early initiation of breastfeeding. Birth 29(2),124-131.
- Wu, C. L., Cohen, S. R., Richman, J. M., Rowlingson, A. J., Courpas, G. E., Cheung, K., Lin, E. E., & Lui, S. S. (2005). Efficacy of postoperative patient-controlled and continuous infusion epidural analgesia versus intravenous patient-controlled analgesia with opioids. A meta-analysis. Anesthesiology V 103(5), 1079.

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