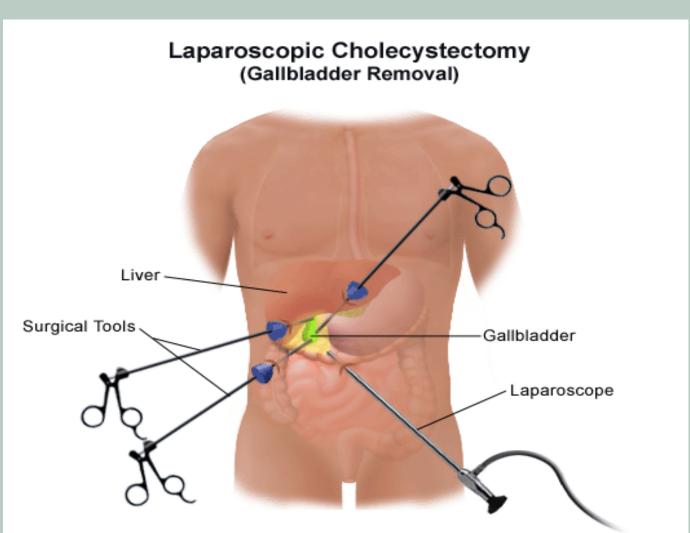
Background

- The length of stay (LOS) varies significantly in the post-op short stay unit at a local community hospital for a laparoscopic cholecystectomy.
- Postoperative nausea and vomiting (PONV) is a common complication after general anesthesia in patients undergoing laparoscopic cholecystectomy, which can increase a patient's LOS.



Research Questions

- What is the current average post-op LOS for laparoscopic cholecystectomy patients?
- What factors differ in the care of laparoscopic cholecystectomy patients that stay longer?
- Can the care be standardized to shorten the length of stay in the post-op short stay unit?

Objectives

To decrease the average length of stay in the post-op unit after a laparoscopic cholecystectomy from the 170 minutes current average to 120 minutes.

Length of Stay for Laparoscopic Cholecystectomy Kathryn Cartwright, BS, LGSN, Alysha Phan, LGSN, and Alexis Sayer, LGSN

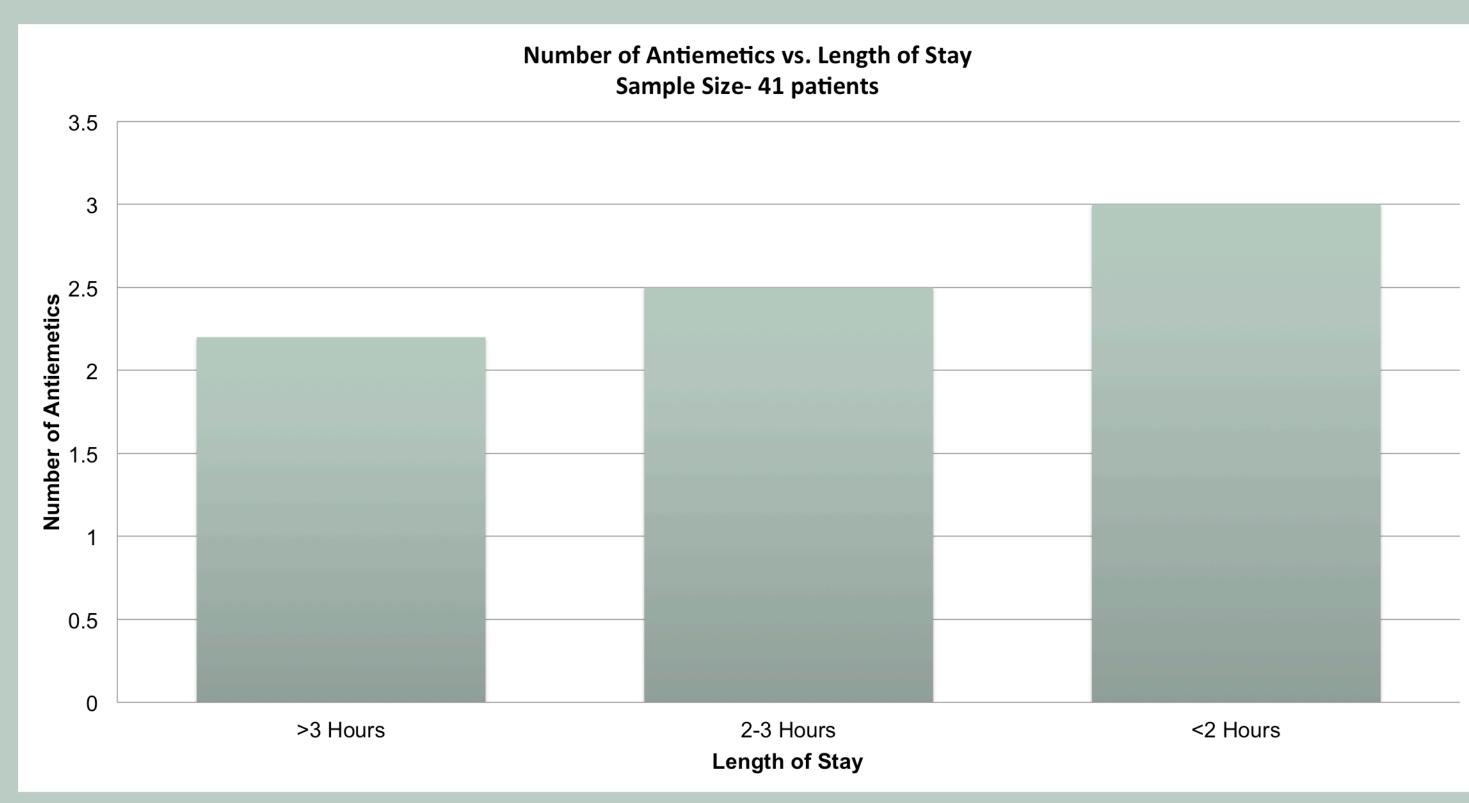
Linfield-Good Samaritan School of Nursing

Methods

- Reviewed EPIC charts of 41 patients who received a laparoscopic cholecystectomy since July 1st 2014 and gathered data on the following:
- Medications used during the procedure
- Use of a nerve block
- Xanax administration before the surgery
- Difference between LOS of males and females
- Observed the care of a patient getting a laparoscopic cholecystectomy from hospital arrival to discharge, including the procedure, communication of staff and nursing care
- Conducted a literature review to gather information on evidence based standards of care

Results

- No differences in LOS was found based on the following factors:
- Patients who received at least 3 different antiemetics during surgery had the shortest length of stay.
- Common intraoperative antiemetics included odansetron, dexamethasone, metoclopramide, ephedrine, scopolamine patch, diphenhydramine and propofol infusion
- Our findings agree with evidence based literature that suggests using a combination of antiemetics may be the most effective method of preventing PONV for high-risk patients, because different antiemetics work on different neurotransmitters involved in the pathogenesis of post-op nausea and vomiting (Wilhelm, Dehoorne-Smith, Kale-Pradhan, 2007).



Nerve blocks, Xanax before surgery, or differences between males and females



A combination of at least 3 different antiemetics should be used during laparoscopic cholecystectomy to reduce postoperative nausea and vomiting in order to reduce the length of stay. Research upcoming literature for more recent study results

Johns Hopkins Medicine (n.d.). Health library. Retrieved from http://www.hopkinsmedicine.org/healthlibrary/ test_procedures/gastroenterology/ cholecystectomy_92,p07689/ Wilhelm, S. A., Dehoorne-Smith, M. L., Kale-Pradhan, P. B. (2007). Prevention of postoperative nausea and vomiting. The Annals of Pharmacotherapy, 41(1), 68-78. Retrieved from http://www.medscape.com/ viewarticle/553034 6

Discussion

Combining antiemetics provides more effective coverage by preventing nausea and vomiting through a variety of pathways.

This study showed that increasing the number of different antiemetics used during surgery leads to a shorter length of stay.

Patients with less nausea and vomiting meet the discharge criteria sooner, reducing their length of stay in the post-op unit.

A limitation of this study was that the literature used is slightly outdated, from 2007.

Recommendations



References