Opioid Use and Extended Stay in the Post Anesthesia Care Unit (PACU) Primary Investigator: DeAnna Kearney, BSN, RN, CAPA **Co-Investigators: Moira Ruane, BSN, RN, HN-BC** Cristina Smith, BSN, RN, CPAN

Introduction

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Length of stay (LOS) in the Post Anesthesia Care Unit (PACU) is dramatically impacted by the administration of opioid pain medication. Many patients become somnolent and experience post-operative nausea vomiting(PONV)

increasing LOS. Purpose of the Study

Determine whether utilizing IV acetaminophen and NSAID would reduce IV opioid administration post operatively thereby decreasing side effects

of nausea, vomiting &

LOS. Reducing opioid administration in the PACU and utilizing a multimodal approach of non-opioid intravenous(IV) medications patient through-NDC 0409-3795 put will be optimized

30 mg (30 mg/m

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Analysis involved a retrospective review of 250 surgical charts of patients having hernia or gynecological procedures.

into 4 groups:

- 1) NSAID only
 - (Ketorolac or Caldolor)
- 2) non-acetaminophen/
 - non-NSAID
- 3) acetaminophen NSAID with
- 4) acetaminophen only.

Data collection included:

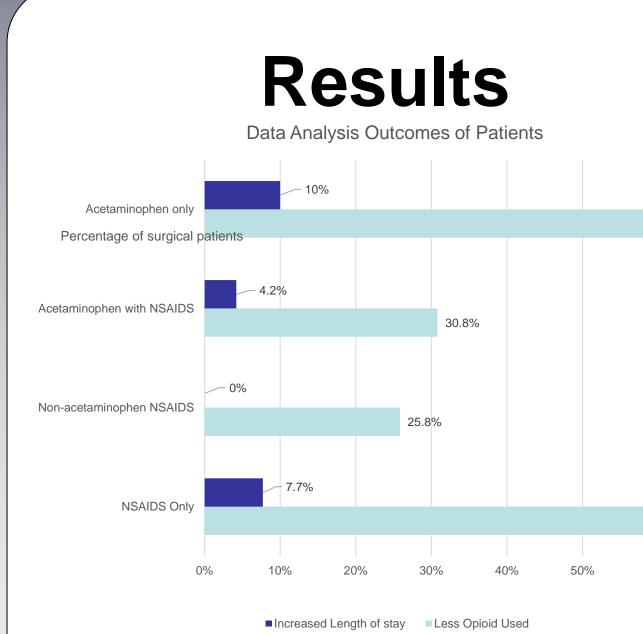
- Use of opioid medications Treatment for nausea
- and vomiting
- length of stay in PACU.

Methods



The analysis was sub-divided





Outcomes: smaller proportion of group 2 and 3 patients (25.8% and 30.8%) required Opioids compared to groups 3 and 4 (46.2% and 54.0%) p=0.011 PACU Interventions were less frequently used in groups 2 and 3 (35.5% and 35.0%) compared to groups 1 and 4 (60% and 66%) p=0.001 PACU interventions for N/V were least in group 3 (41.3%) and most in group 4 (68.0%) p=0.014 Adverse events increasing LOS occurred less often in groups 2 and 3 (0% and 4.2%) vs. groups 1 and 4 (7.7% and 10.0%) p=0.035 LOS: group 2 had the shortest PACU hours (1.3) vs. group 4 with the longest (1.7) p=0.007



Associations

GNET

The use of NSAID and acetaminophen(multimodal approach) showed the greatest benefit for the patient. This impacted the way we manage care in our surgi-center. For many of the cases we now give the NSAID in combination with acetaminophen. We continue to see a decrease in opioid use and decrease in PONV resulting in decreased LOS. Anesthesia has added blocks and long acting local anesthesia for many cases decreasing post-op pain that impacts PONV and LOS. This ultimately keeps our patients safe and increases patient satisfaction.

> References provided on request