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## Bowel Clean Out Prior to Intrathecal Baclofen Pump Implantation: Effects on Acute Post-Operative Gastrointestinal Complications

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Intrathecal baclofen (ITB) pumps have been used

for management of spasticity and dystonia since

the 1980's. There is limited data on immediate

post-operative complications such as GI adverse

events after surgery for ITB pump related

procedures.

The aim of this study was to compare patients who

underwent a pre-operative bowel cleanout to those

who did not and the relationship with post-

operative complications such as nausea and



program compared to home regimen after ITB

implantation

80

70

60

2) Rates of nausea and/or emesis after ITB implantation

and relationship to pre-operative bowel cleanout

**Bowel Escalation** 

Bowel Program Escalation

Of the 97 procedures performed in the study period,

including new pump and catheter implantations and

catheter revisions, 62% (n= 60) were instructed to

complete a bowel clean pre-operatively.

There was a significant difference between patients

who had emesis in those who did not undergo a

bowel cleanout preoperatively when compared to

patients that did undergo a bowel cleanout

(p=0.049).

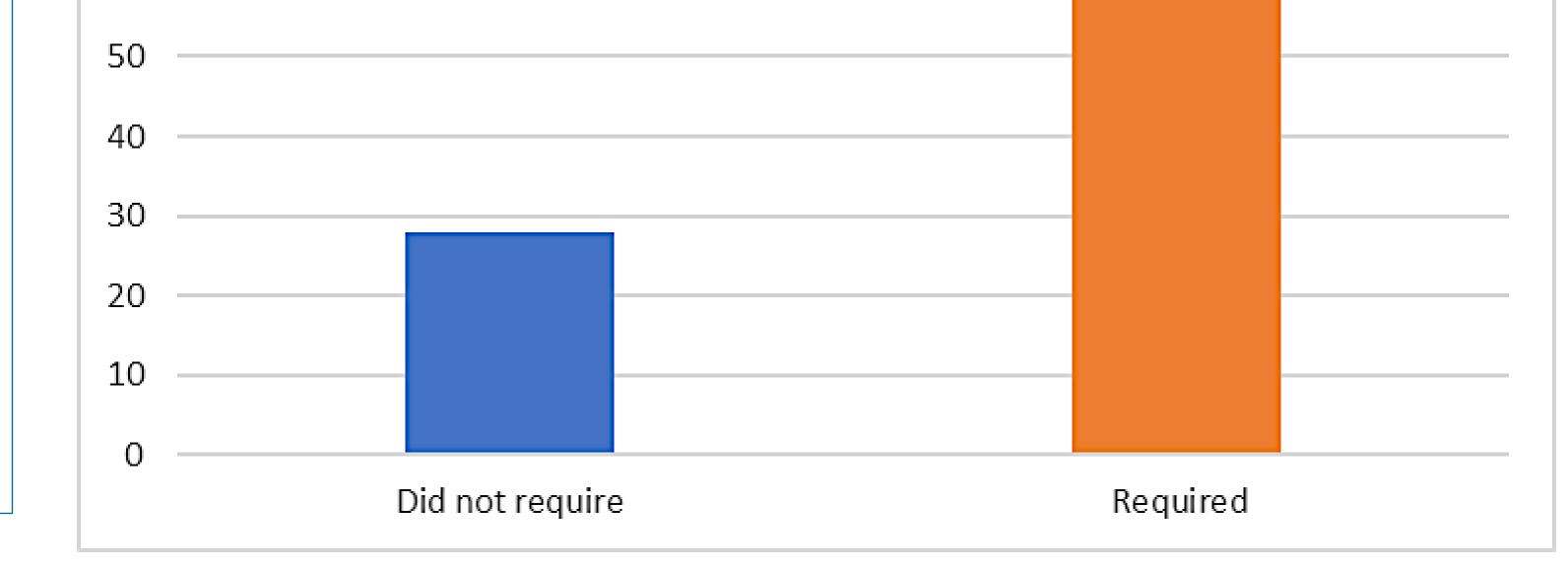
A chi-square test of independence demonstrated

there was no significant relationship between

vomiting. We additionally evaluated the

relationship with constipation requiring an

escalation of their bowel regime post-operatively.



performance of a cleanout and the need to increase

their bowel regimen post-operatively (chi squared

value= 0.0062, p=0.937382).

Methods

<u>Design/Participants:</u> Retrospective Cohort Study. A chart review of all patients who underwent ITB

placement from January 2015-December 2022 was

completed at an independent hospital.

**Figure 1** : 69 of 97 patient's required an escalation from their home bowel regimen compared to 28 of 97 patient's who did not require escalation from their home regimen.





It appears that escalation of a bowel regimen is

typically required during a post-ITB implant

admission regardless of if a preoperative bowel

cleanout is performed. Moreover, it should be

Intervention: Pre-operative bowel clean out

## including

Polyethylene glycol three times a day for 3 days

• Fleet's Enema nightly for 3 days



	Emesis	NO EMESIS	
Cleanout		38	23
No Cleanout		15	21

Table 1: Comparison of those who had emesis in the patient's who had a bowel cleanout compared to those that did not undergo a bowel cleanout. Overall, there is a significant difference in the patients with emesis who did not undergo a bowel cleanout (p=(0.049).

carefully considered for each individual patient. As

constipation may contribute to emesis, this

immediate escalation of the bowel regimen in the

post-operative period should also be considered.

References available upon request

