

## **Background & Significance**

- Over 90 million individuals in the U.S. are affected by po literacy
- Poor health literacy has been linked to increased costs, care, and increased rates of hospitalization
- Clinicians often rely on verbal or printed educational ma advanced terminology and inappropriate reading levels patient populations
- In the surgical setting, lack of understanding of preopera instructions affects quality of care and patient safety
- Visuals and graphics communicate key points and increa understanding of instructions
- Illustrated patient education booklets have the potentia improve patients' comprehension, and thus, increase ac with preoperative surgical instructions
- The Enhanced Recovery After Surgery (ERAS) Program is an evidence-based initiative to improve surgical outcomes and recovery
- As part of the ERAS initiative at an academic medical center in New Jersey, it was noted that there was a need to improve adherence with preoperative instructions in patients undergoing colorectal surgery.

# **Clinical Question**

• For colorectal surgery patients, does the use of illustrated patient education booklets compared to previous practice increase adherence with preoperative instructions after 8 weeks?



# Improving Adherence with Preoperative Instructions: **A Quality Improvement Project**

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### Methods

oor health	•	<b>Design:</b> Quality Improvement Proj
delays in		Setting: Acute care hospital in Nev approximately 100 colon surgeries
aterial with	•	Inclusion Criteria: Patients 18 year colon surgery
for specific		Sample Size: Purposeful sample of inclusion criteria and were used for
ative		Intervention: Illustrated patient ed to patients who met inclusion crite
ase	•	<b>Evaluation Measures:</b>
al to dherence		Chart review of ERAS patients und 16-week period. Data divided into week post-implementation period
		Results



Demographic

NO, NOT

Age (years)

Ethnicity



## DNP Team Member: Melissa Alvarez-Downing, MD

#### iect

- w Jersey that conducts annually
- rs or older undergoing elective
- f 30 charts reviewed; 8 charts met or data collection and analysis
- ducation booklet created and given eria

#### lergoing colorectal surgery over a 8-week pre-implementation and 8-

Subcategory	Frequency (%) TOTAL: N =8
20-49	2 (25%)
50-69	4 (50%)
70-99	2 (25%)
Male	5 (62.5%)
Female	3 (37.5%)
BLACK/AFRICAN AMERICAN	2 (25%)
OTHER RACE	6 (75%)
NO, NOT <u>SPANISH,HISPANIC,</u> LATINO	3 (37.5%)
YES, OTHER SPANISH, HISPANIC, LATINO	3 (37.5%)
YES, CENTRAL/SOUTH AMERICAN	1 (12.5%)
YES, MEXICAN, MEXICAN AMERICAN, CHICANO	1 (12.5%)

## **Data Analysis**

- PEB
- operative adherence rates

## Discussion

## **Preoperative categories that showed increase in adherence rates:**



#### **Preoperative categories that showed decrease in adherence rates:**

Clear liquids up to 2 hours before induction

#### **Preoperative categories that remained unchanged with** implementation of illustrated PEB:

Circati	
0	Preadmi
0	Consum

#### Limitations:

- Small sample size
- Short time frame for implementation
- Incomplete nurse documentation

# Implication and Recommendations

- health information
- of care within the hospital
- preoperative instructions
- patient-centered approach

# **Contact information**

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# References

Two-sample *t*-test compared means of the the preoperative adherence rates before and after implementation of the illustrated

There was not a significant difference in the score for adherence preimplementation (*M*=60, *SD*=14.14) and adherence postimplementation (*M*=73.33, *SD*=23.09) rates; *t*(6)=2.45, *p*=0.34

The implementation of the illustrated PEB did not influence the pre-

Preoperative mechanic bowel preparation Preoperative oral antibiotic prophylaxis

> nission counseling ption of calorie-rich pre-surgery drink

#### Elective surgeries postponed due to COVID19

Use of illustrations can increase patients' understanding of

Illustrated patient education booklets can be used as standard

Standardized instructions can increase rates of adherence to

Reducing health literacy gaps is one component of creating a



