

Pediatric Early Enteral Nutrition

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AIM Statement

The PICU Nutrition Quality Improvement Team will increase early enteral nutrition (EEN) delivery for mechanically ventilated patients from 55% to $\geq 80\%$ within 6 months of project implementation.

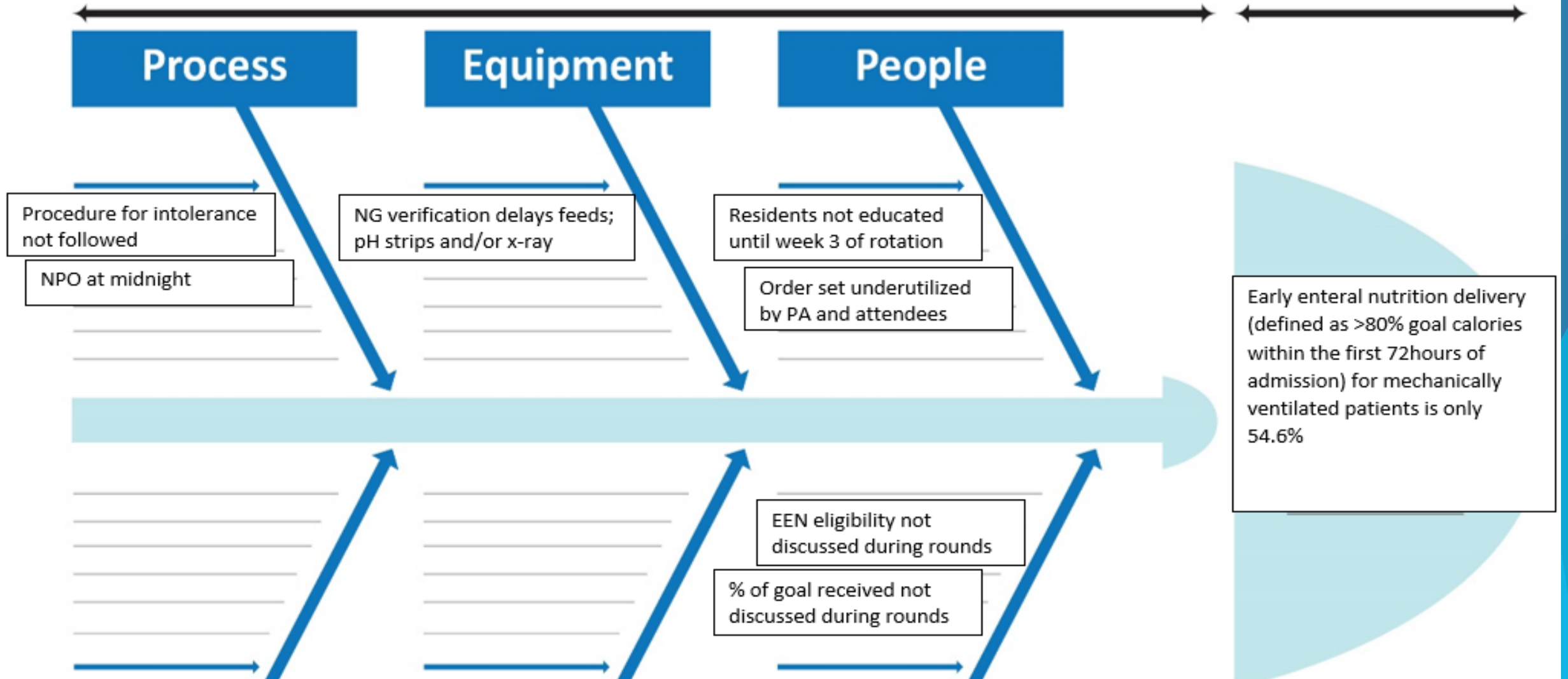
Change Management

- Identifying stakeholders was beneficial
- Communication plan helped deliver a clear message
- Little change management needed after data collected and root causes identified
 - Team helped identify steps in root cause analysis
 - Likely due to buy-in from team members

PLAN

CAUSES

EFFECT



Process

Equipment

People

Procedure for intolerance not followed

NPO at midnight

NG verification delays feeds; pH strips and/or x-ray

Residents not educated until week 3 of rotation

Order set underutilized by PA and attendees

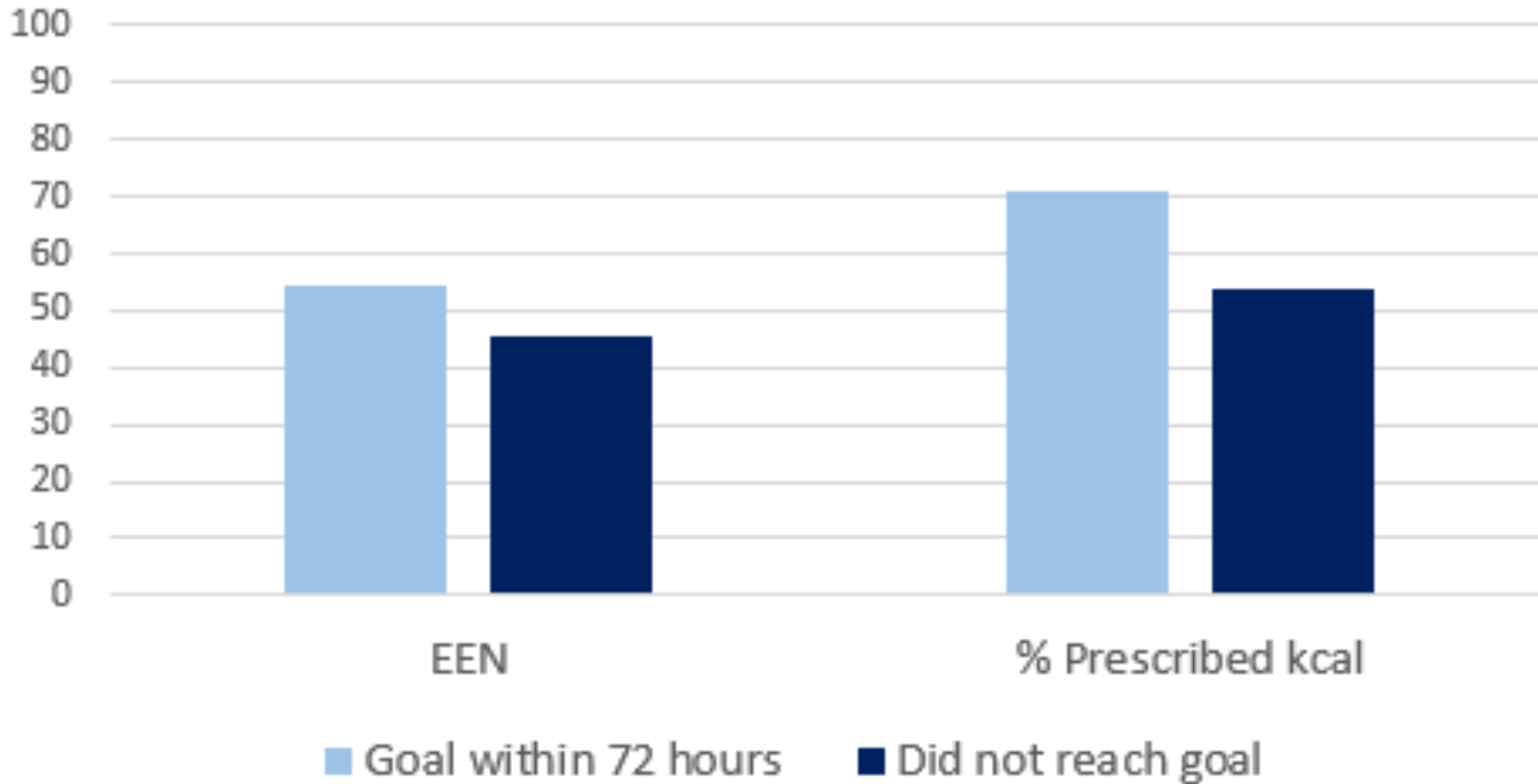
EEN eligibility not discussed during rounds

% of goal received not discussed during rounds

Early enteral nutrition delivery (defined as >80% goal calories within the first 72 hours of admission) for mechanically ventilated patients is only 54.6%

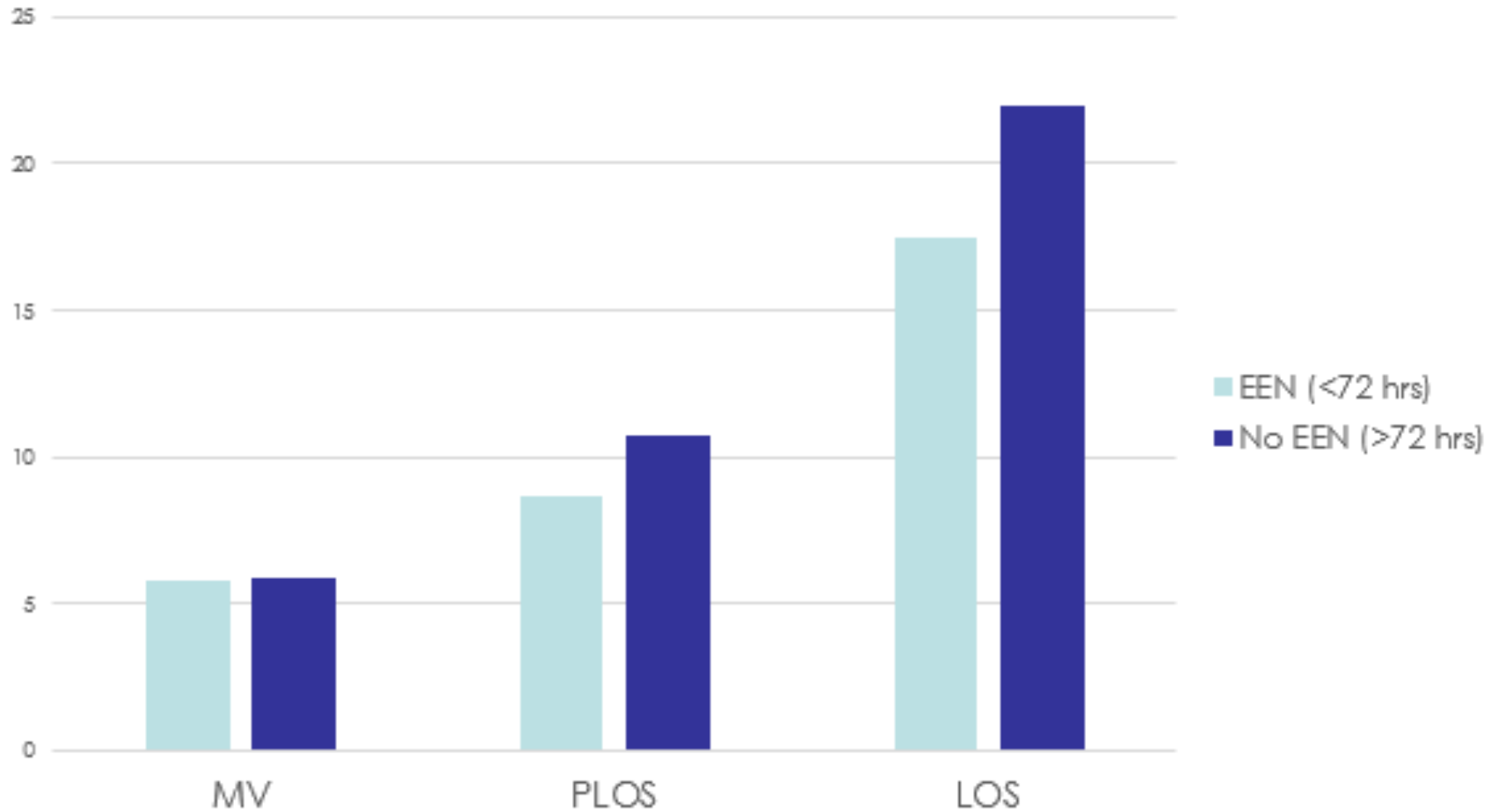
Data

Early Enteral Nutrition Data - Baseline



Data Continued

Early Enteral Nutrition Outcomes



DO - implementation plan

Implementation Plan					
Project Title: Pediatric Early Enteral Nutrition					
Date: May 2016					
WHAT	WHO	OWNER	DUE DATE	COMPLETE	COMMENTS
Promote Order Set	Dr. Babbitt (PICU Director), Dr. Levine (Resident Director), physicians, residents	Amanda Legro /Dr. Babbitt/Dr. Levine	May 2016	Yes	Ongoing
Define NPO times	Physicians, residents	Dr. Babbitt	May 2016	Yes	Ongoing
Define intolerance action plan	Nurses, physicians, residents	Amanda Legro	May 2016	Yes	Ongoing
Clarify NG verification	Nurses	Lisa Brown (nurse educator)	May 2016	Yes	Ongoing

DO - communication plan

Communication Plan

Project Title: Pediatric Early Enteral Nutrition

Date: May 2016

Targeted Audience	Message Content	Delivery Mechanism	Sender	Date & Time	Follow up needed
Consider managers/ <u>supervisors</u> , employees, customers, supplies	What needs to be communicated? Customize by audience, Include WIIFM, Allow for input/ questions	Face to face, group, individual, Email, Posters, Newsletter etc.	Who will send the message?	When will the communication be delivered?	Yes/ No What follow up is needed?
Residents	PICU enteral feeding order set – what it is, how to order	Welcome Packet	Resident Director (Dr. Levine)	Beginning of PICU rotation (monthly)	No
Residents	Intolerance Action Plan procedure	Resident Lecture: fact to face	PICU RD (Amanda Legro)	3rd week of rotation (weekly)	No
PICU Physicians	Utilization of feeding order set	email	PICU Director (Dr. Babbitt)	5/12/16	No
PICU Physicians	Intolerance Action Plan procedure	Group presentation	PICU RD (Amanda Legro)	PICU <u>Careline</u> Meeting 5/18/16	No
Nurses	NG Verification Procedure	Group presentation	PICU RD (Amanda Legro)	PICU Staff Meeting 5/19/16	No
Physicians/Residents	NPO times	Face to face	PICU Director (Dr. Babbitt)	Daily during rounds	No

STUDY

- Determine reasons EEN not achieved
 - 1) order set not used
 - 2) NPO at midnight
 - 3) Procedures increase NPO time
 - 4) Intolerance increase NPO time
 - 5) No RD assessment within 48 hours
 - 6) NG verification delays feeds

ACT

- Continue data collection
 - For patients that do not receive EEN document reasons
 - Pie chart
 - Analyze data in 3 month intervals
 - Identify primary reasons patients are not receiving EEN
 - Action plan will address most common reasons

LESSONS LEARNED

- ▶ Involving others in the change process increases buy-in
- ▶ Listening to others' perspectives increases team member engagement
- ▶ There are *MANY* causes to a problem! Never assume
- ▶ Shorter time periods of data collection can produce meaningful data and allow for real-time response to a problem

Sponsor Disclosure: This presentation has been sponsored by Nestlé Health Science.

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