Operational Outcomes of Propofol Sedation versus Fentanyl, Versed and Diphenhydramine Sedation for Endoscopies and Colonoscopies at an Academic Medical Center



Background

- The UCH Department of Anesthesia has implemented Monitored Anesthesia Care (MAC) for patient sedation with gastrointestinal procedures.
- Shorter perioperative and procedure times are associated with decreased rates of nosocomial infection¹ and mortality^{2,3} and increased access to care.⁴
- We hypothesize that MAC will improve patient and operational outcomes as compared to nurse administered sedation.

Methods

- We will be performing a retrospective cohort study after IRB approval using STROBE guidelines.
- Patients matching inclusion criteria – based on the type of sedation they underwent, MAC or nursing sedation – will be abstracted from EMR data and compared using a two-sample ttest or a linear model.
- Primary and secondary outcome measures will include:
 - In-room to Scope-in
 - Scope-Out to Exit
 - Procedure Case Length
 - PACU Length of Stay

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Preliminary Findings

e 1: Primary Outcomes				
Outcome	Description	Units	Results	
Room to Scope-In (IRSI)	Patient arrival to procedural suite to the time the scope is placed	Minutes	Mean IRSI is 19.5-21.5 minutes shorter than nursing sedation	

e 2: Secondary Outcomes				
Outcome	Description	Units	Results	
nesthesia Care Unit Length of Stay (PACU LOS)	Patient arrival to PACU to discharge time	Minutes	Mean PACU LOS is 3.7 minutes shorter than nursing sedation	
rocedure Case Length	Time from scope-in to scope-out	Minutes	Mean case length is 20.5 minutes shorter	
cope-Out to Exit (SOE)	Sedation end time to time patient leaves procedural suite	Minutes	Results pending	

