A Pediatric Gastrostomy Tube (G-tube) Educational Video Initiative to Promote Caregiver Knowledge and Ease

Harleen Singh, BSN, RN, CPN; Kimberly McIlrout, DNP, CPNP; Mary Ellen Connolly, CRNP

Introduction & Background

- Pediatric G-tube placement is a common inpatient surgical procedure in the U.S.
- Associated with high degree of complications and subsequent caregiver burden

Purpose

To determine whether a newly developed pediatric gastrostomy educational video leads to an increase in caregiver knowledge and decrease in anxiety, in addition to a reduction in emergency visits related to G-tube complications within 30 days of placement.

Aim 1: Caregiver Knowledge

To increase caregiver knowledge on the management of pediatric gastrostomy care after completion of an educational video

Aim 2: Caregiver Anxiety

To decrease caregiver anxiety related to pediatric gastrostomy care after completion of the educational video

Aim 3: 30-Day ED Readmissions

To decrease the percentage of G-tube related emergency department visits within 30 days of tube placement

Methods

Participants: Adult caregivers of pediatric patients with newly placed G-tubes (within past 48 hours)

Intervention: 7-minute educational video reviewing the most essential aspects of G-tube care

Measurement:
- Pre- and Post- knowledge and anxiety questionnaires
- Review of pediatric surgical consult list to track 30-day ED visits post tube placement

Analysis:
- Aims 1 & 2: Wilcoxon-Signed Rank Test
- Aim 3: Fisher's Exact Test

Conclusions

High quality discharge teaching is an effective way of increasing knowledge and decreasing caregiver anxiety surrounding G-tube care. However, the intervention had no impact on 30-day ED visits related to G-tube complications

Discussion

Project strengths:
- case of use
- sustainability
- low cost
- interdisciplinary involvement

Project limitations:
- small sample size
- limited availability of validated questionnaires related to topic
- small time frame to measure outcome
- education limited to English language

References