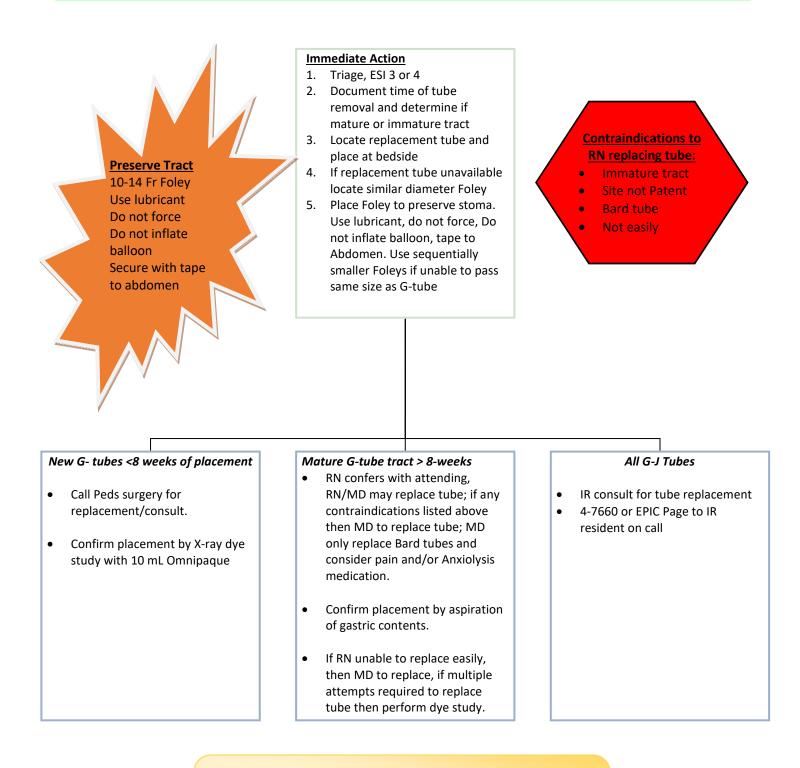
Clinical Pathway: Gastric Tube Replacement	
July 2021	
Outcomes/Goals	 Identification and expedited treatment of pediatric patients presenting with need for gastric tube replacement Create a team-oriented approach to treatment and care Correct tube replacement and confirmation of tube placement
NURSE Documentation	Chief complaint. Time/date and mechanism of how tube was displaced or removed. Date of tube placement. Size, length and type of tube if known. Tube dependent feeding and medication status. Abdominal and skin assessment. Facilitate delivery of regularly scheduled medications via different route if > 60- minute delay expected. Assess and evaluate need for IV hydration if delay of replacement anticipated (>4 hours).
INTERVENTIONS Initiate on arrival	ESI Triage level III or IV (depending on date of tube placement) Full set of vitals per NPEOC Identify and locate correct replacement tube – to bedside (see guidelines page 3) Foley catheter to bedside if delay in locating correct tube size or delay in surgery resident/attending anticipated (10 or 14 Fr. Foleys are most common but may have to adjust up or down depending on pt/size of track) Pt may be sent out with Foley in place if follow-up in clinic within 24 hours.
DIAGNOSTICS	If Needed: Order post placement confirmation x-ray as: Abd Tube Cath Eval with Contrast (not Fluro) for GT Placement Confirmation
PHYSICIAN (LIP)	
Medication	10mLs Omnipaque up to 15 minutes prior to post placement confirmation x-ray. Must be administered by physician.
Tube Replacement Recommendations	New G- tubes <8 weeks of placement: call Peds surgery for replacement/consult. If correct tube size not immediately available or unable to place tube place a Foley in track to preserve stoma. To place Foley, use lubricant, insert about 2 inches, do not force, do not inflate balloon, tape Foley to abdomen. Confirm <u>all new G-tube placements</u> with Dye study. IF Foley will be used for feeds, confirm Foley placement with dye study.
	 Mature G-tube tract > 8-weeks: RN confers with attending MD, and if no contraindications (contraindications include but not limited to: immature tract, site not patent, Bard tube) – RN or MD replaces tube and confirms placement by aspiration of gastric contents. If RN unable to easily replace tube then MD to replace. If multiple attempts required to replace tube then, perform dye study. All G-J Tubes: IR consult for tube replacement
Exclusion Criteria	Abd pain with G-Tube removal Moderate, or brisk bleeding at site Traumatic removal or other recent Abd surgery or trauma
G-tube availability	Size and location searchable by Par X

Clinical Pathway Decision Making Process

Gastric Tube Replacement

July 2021

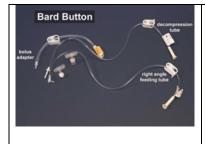


DYE STUDY

- Abd Tube Cath Eval with Contrast (not Fluro) for GT Placement Confirmation
- MD pushes 10 mL Omnipaque prior to X-ray

	Clinical Pathway Decision Making Process
	Gastric Tube Replacement Rationale and Data
	July 2021
	Goals of Clinical Pathway
1. Identification ar	nd expedited treatment of pediatric patients presenting with need for gastric tube
replacement	
2. Create a team-c	riented approach to treatment and care
Correct tube rep	placement and confirmation of tube placement
Styles of G-tubes	
MIC long balloon	Easily pulled out d/t long length
	Sometimes used as primary initial tubes
	Easily changed in clinics or home.
	Steps in replacement:
	Assess patency of site and maturity of tract. Any tract, < 8 weeks old needs surgical
	consult.
	Check the GT balloon for leaks by injecting a small amount of sterile water into the
	balloon port (follow manufacturer's recommendation for amount of water)
	Withdraw instilled water from balloon
	Lubricate balloon tip
	Hold the tip of the GT perpendicular to the Abd, in the direction of the stoma tract and
	pass the tip of the GT into the opening with steady firm pressure. Never force the GT to
	advance. If unable to pass, notify MD. If excessive bleeding, stop and notify MD.
	Once in place, inflate the balloon per manufacturer recommendations.
	Check placement by aspirating stomach contents. Clean site with sterile water and cotton-tip swab.
	Post tube placement, monitor for : extreme pain, changes in vital signs, leakage of
	gastric content, vomiting, bleeding, skin erosion, stoma enlargement, and/or inability to
	administer feedings or medications.
Low profile balloon tube	Preferred type by OHSU Peds surgeons
"Mic-key"	Found in the OR and through Logistics
Mic Key	Easily changed out in clinics, ERs, and at home.
	Steps in replacement:
	Assess patency of site and maturity of tract. Any tract, < 8 weeks old needs surgical
	consult.
	Check the GT balloon for leaks by injecting a small amount of sterile water into the
	balloon port (follow manufacturer's recommendation for amount of water)
	Withdraw instilled water from balloon
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	Check placement by aspirating stomach contents.
	Clean site with sterile water and cotton-tip swab.
	Post tube placement, monitor for: extreme pain, changes in vital signs, leakage of
	gastric content, vomiting, bleeding, skin erosion, stoma enlargement, and/or inability to
Law Deaffle New L. U.	administer feedings or medications.
Low Profile Non-balloon	Replaced in peds specialty clinic or operating room
Types "BARD"	Painful to replace and Children generally need oral anxiolytic and/or pain medication
	prior to change
	Only Physicians change
	AMT tubes are special order

BARD tubes are clinic supply



Other considerations/complications:

Immature tract: If a G tube tract has not been established (> 8 weeks), then replacement is required by Peds surgery and a dye study is required to confirm placement, d/t risk of tube being misplaced into peritoneum causing peritonitis.

Clogged G tube: Warm water is first line. 60mL syringe. DO NOT use HOT water. Do not force water, firmly push and pull plunger back and forth. Clamp the tube x 20 minutes allowing water to "soak." Repeat if necessary. Coca-Cola not recommended as it can cause precipitate with casein. If warm water does not work, consider mixing an enzyme capsule (Lipase-protease-amylase 6000-19000-30000 CREON) with 325 mg Sodium Bicarbonate tablet and dissolving in 5 mL water. Instill mixture into tube and clamp x 5 minutes then flush with push-pull method with water.

Granulation Tissue: Excessive tissue growth around the tube commonly with mucus or bloody drainage. Use silver nitrate and/or Triamcinolone 0.5% TID x 2 weeks Protect skin from gastric contents with barrier creams (preferably zinc oxide). Avoid tension or friction at the site. If excessive, call Peds Surgery.

Site Infection: Rare but can be serious. Erythema, tender, purulent drainage. Treat with systemic antibiotics

Leakage: Appropriate fit? (Usually want 3-4 mm of room between skin and device). Balloon broken? Enlarged tract or erosion? Obstruction? Granulation tissue?

References:

Elsevier Clinical Skills, *Feeding Tube: Balloon and Low-Profile Gastrostomy Removal and Reinsertion*; Clinical Review by Sandra L. Jacobs, RN, MS, CPNP, updated: November 2020; Retrieved: July 2021; <u>https://point-of-</u> care.elsevierperformancemanager.com/skills/723/quick-sheet?skilld=CCP_090#scrollToTop

Elsevier Clinical Skills, Feeding Tubes: Gastrostomy Tube, Jejunostomy Tube, and Gastrojejunostomy Tube Care, Clinical Review by Christie Heinzman, DNP, APRN-CNP; updated: November 2020; Retrieved: July 2021; <u>https://point-of-</u>care.elsevierperformancemanager.com/skills/820/quick-sheet?skillld=CCP_096

Verger, J.T., Lebet, R. M. [Eds.] [2008]. AACN procedure manual for pediatric acute and critical care. St. Louis: Saunders.

http://www.bcchildrens.ca/health-info/coping-support/tube-feeding

http://www.chop.edu/clinical-pathway/g-j-or-g-tube-displacement-clinical-pathway

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