Upper GI Exam – Laproscopic Band Evaluation

PURPOSE / CLINICAL INDICATION:

- Immediate Post Op Study
 - o Confirm position of all components
 - Evaluate pouch size
 - Exclude leak and obstruction
 - Later Follow-up Assessment
 - New symptoms or inadequate weight loss
 - Confirm position of all components
 - Evaluate pouch size
 - Exclude obstruction
 - Evaluate for presence of any complications

SPECIAL CONSIDERATIONS / CONTRAINDICATIONS:

- Water-soluble contrast (low-osmolar, nonionic) is the preferred initial contrast agent in the settings of suspected perforation or recent post-operative state
- In case of suspected leak, it minimizes complications from contrast leakage into the mediastinum, pleural space, or peritoneal cavity.
 - Low-osmolar nonionic are safe if aspirated
 - Maximum volume of low-osmolar nonionic administered orally is 100 mL
- No effervescent granules are needed

	ORDERABLE NAME:	EPIC BUTTON NAME:	NOTES:		
		EFIC DUTTON NAME.	NOTES.		
UTSW					
PHHS	XR Upper GI	Upper Gl			
	XR Upper GI W Small Bowel		Perform small bowel follow		
	Follow Thru		through protocol after this protocol		
EQUIPMENT / SUPPLIES / CONTRAST:					
٠	 Immediate post op – Low osmolar non-ionic water soluble contrast 				
 Follow with thin barium if postop evaluation shows no leak with water soluble contrast 					
Routine follow-up – Barium					
 If no suspected leak based on clinical history/symptoms 					
PATIENT PREPARATION:					
٠	Review for contrast allergy				
٠	NPO after midnight				
PROCEDURE IN BRIEF:					
•	• Focused imaging of the distal esophagus, gastric pouch, distal stomach in relation to the				
	adjustable gastric band.				
•	For immediate post op study, start with water soluble contrast. Repeat with thin barium if no				
	extravasation identified.				
COMPLETE PROCEDURE TECHNIQUE:					
٠	Immediate Post Op Study				
	 Scout by technologist – ass 	ess band/entire tubing/p	port positions		
	 Position – Semi-upright, ev 	aluate in 2 different posi	tions, prefer orthogonal		
	 Have the patient drink slow 	vly	-		
	 Imaging with cine rapid imaging 	aging (3 images/second)	centered around the lower		
	esophagus and stomach re				

If there is no complication (i.e. obstruction or leak), repeat evaluation with additional thin barium Later Follow-up Assessment Scout by technologist – assess band/entire tubing/port positions • Position – standing if patient can tolerate Scout by radiologist under fluoroscopy: Port in profile (lateral), ensure that injectable area of port faces outward • Have the patient drink slowly • Evaluate in 2 different positions, prefer orthogonal Imaging with cine rapid imaging (3 images/second) centered around the lower esophagus and stomach region o Move patient prone in RAO oblique and repeat if patient can tolerate **IMAGE DOCUMENTATION:** Immediate post-op or suspected leak ٠ • Overhead images AP scout – include all band, tubing, and port AP delayed – include opacified post band bowel, confirm gastric emptying Digital spot images Ο 2 different projections (prefer orthogonal) per contrast agent focused on operative site Routine follow-up Overhead images AP scout – include all band, tubing, and port **Digital spot images** 0 Lateral scout of port in profile Upright 2 different projections (prefer orthogonal) focused on gastric pouch Prone RAO focused on gastric pouch AP delayed fluoro save to confirm gastric emptying if not seen on earlier images **ADDITIONAL WORKFLOW STEPS:** •

REFERENCES:

- General Fluoroscopy Considerations
- Procedure Contrast Grid
- ACR Practice Parameter for the Performance of Esophagrams and upper Gastrointestinal Examinations in Adults, amended 2014Normal Findings
 - Band position Band oblique in LUQ lateral edge pointed cephalad toward diaphragm, medial edge pointed caudal toward spine, near GE junction with +/- small pouch. Absence of a pouch can be a normal finding.
 - Band stomal width ideally 3-7 mm. (Estimate stomal width by the width of contrast column seen going through stoma. Stoma itself not directly visible unless port injected with contrast)
 - Pouch size/morphology should be < 20ml in capacity ideally.
 - Tubing no kinks or disconnections.
 - Port injectable component (inner small circle) facing externally toward skin
 - Absence of perforation or complete obstruction
 - No esophageal reflux from pouch
- Abnormal Findings

0	Band
	 Malpositioned band (band posterior slippage)
	 Assess "O" sign, phi angle, distance between diaphragm and pouch, etc
	 Less than 45 degree angle is considered normal
	 Dilated pouch due to band slippage
	 Over-narrow stoma (can be associated with concentric pouch dilatation)
	 Estimate stomal size by size of lumen of contrast going through the stoma or presence of obstruction.
	 Stomal size not directly measurable unless contrast placed into tubing to fill stoma receptacle. Only done if requested specifically.
	 Eccentric band herniation
	 The saline receptacle within inflated band bulges asymmetrically due to wall
	weakness.
	 Necessitates contrast injection into band to determine, if applicable
	 Can also be associated with concentric or eccentric pouch dilatation
	 Transmural band penetration/erosion – erosion of the band into the pouch
0	Pouch
	 Pouch dilatation – eccentric or concentric
	 Pouch dilatation can be secondary to a malposition /slipped band, narrow stoma or stomal configuration changes due to band wall herniation, or over-
	eating)
	 Pouch – esophageal reflux
	 Perforation
0	Tubing
	 Kinked tubing
	 Discontinuous tubing
0	Port
	 Port malposition – injection portion of port not accessible to inject
	 Infection around port – not a fluoroscopic diagnosis
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