	Salid Calu	mn Contract	Enoma					
PUKPOSE / CLINICAL INDICATION:								
•	For barium evaluation							
	<ul> <li>Disabled, old, or very III patient unable to perform the maneuvers/rotating on the exam table required for air contrast study.</li> </ul>							
	table required for air contrast study							
	<ul> <li>induceduate attempts for bower preparation (2<sup>th</sup> time coming back to theradiology department for indequate hower preparation)</li> </ul>							
	$\circ$ Clinical indication not requiring mucosal detail							
For water soluble evaluation								
	$\circ$ Suspected colonic fistula/anastomotic leak							
	<ul> <li>Suspected colonic instally anastoniotic leak</li> <li>Bowel is not prepared but limited exam requested to verify or exclude obstruction or</li> </ul>							
	volvulus							
	<ul> <li>Preoperative planning/evaluation</li> </ul>							
	<ul> <li>Therapeutic enema for feca</li> </ul>	al impaction (only after fa	ailed cleansing enemas)					
SPECIAL CONSIDERATIONS / CONTRAINDICATIONS:								
•	Stay alert and look for lesions durin	g fluoroscopy. A single c	ontrast BE relies on a higher level of					
	fluoroscopic skill.							
•	Manual or mechanical compression should be applied as appropriate to all accessible segments							
	of colon during fluoroscopy.							
•	Absolute Contraindications							
	<ul> <li>Toxic Megacolon</li> </ul>							
	<ul> <li>Acute, fulminating colitis</li> </ul>							
	<ul> <li>Free air on scout image</li> </ul>							
•	Relative Contraindications							
	<ul> <li>Following Sigmoidoscopy or Colonoscopy:</li> </ul>							
	<ul> <li>Need to confirm with the ordering team (if for same day BE request):</li> </ul>							
	Any biopsy performed?							
	<ul> <li>If yes - Superficial vs. Deep biopsy?</li> </ul>							
	<ul> <li>If no biopsy performed, same day fluoroscopic enema exams can be</li> </ul>							
	attempted.		in action (automaticial biomatica) dans act					
	<ul> <li>Performance of sm proclude performance</li> </ul>	all forceps endoscopic bi	ropsies (superficial biopsies) does not					
		s can be performed in in	dividual cases at the radiologist's					
	discretion		alviadal cases at the radiologist s					
	There should be a should be should be should be a should be a should be a should be a	ld he a 7 day interval he	tween the fluorosconic contrast					
	<ul> <li>There should be a 7 day interval between the hubroscopic contrast enems exam and performance of large forcers biopsy through a rigid</li> </ul>							
colonoscone snare polynectomy, bot bionsy or bionsy of any size or								
type in infectious or active inflammatory bowel disease.								
	ORDERABLE NAME:	EPIC BUTTON NAME	NOTES:					
UTSW	XR Barium Enema							
	XR Gastrografin Enema							
PHHS	XR Barium Enema Solid Column	Solid column enema						
EQUIPMENT / SUPPLIES / CONTRAST:								
Barium vs Water soluble								
-								

• Commercially available contrast enema bag

-						
•	Clamp					
•	K-Y gel/lubricant					
PATIENT PREPARATION:						
•	Review for patient allergy					
•	NPO after midnight					
•	Prefer full bowel prep if patient tolerance allows					
•	Question the patient about					
	<ul> <li>Relevant symptoms and previous abdominal surgeries</li> </ul>					
	<ul> <li>Pregnancy, recent colon scope procedure</li> </ul>					
	<ul> <li>Review prior colonoscopy and radiological exam results</li> </ul>					
•	Explain the procedure to the patient – may need help from interpreter					
•	Male radiologists/midlevels need a female technologist to chaperone for female patients during					
	rectal exam and rectal tube insertion					
PROCEDURE IN BRIEF:						
•	Thin barium suspension or water soluble contrast mixture is administrated for evaluation of the					
	colon under fluoroscopy. No air contrast is introduced.					
COMP	PLETE PROCEDURE TECHNIQUE:					
•	Evaluate scout plain film.					
•	Patient in Left lateral position:					
	• With the patient in the left lateral decubitus position, perform a careful rectal exam					
	checking for mass, stricture, stool, and anal tone. (Have chaperone if required.)					
	<ul> <li>Lubricate the enema tip and insert the tip. (Have chaperone if required.)</li> </ul>					
•	Allow contrast to flow by gravity, fill the rectum, and take 1 to 2 spot images of the rectum and					
	sigmoid colon.					
	<ul> <li>Always be alert about where the contrast has advanced to during the exam and try to</li> </ul>					
	avoid reflux into terminal ileum if possible.					
	<ul> <li>If evaluating colonic anastomosis prior to ileostomy takedown, suture lines on scout</li> </ul>					
	image will help localize the anastomosis. Evaluate this area carefully for stricture or					
	extravasation. Detailed images of the remainder of the colon are not necessary $-2$ to 4					
	images to document the remainder of the colon will suffice.					
	<ul> <li>If evaluating for possible fistula – fill the entire colon with water soluble contrast then</li> </ul>					
	inspect the suspected region, sometimes small fistula won't show up till there is enough					
	pressure from a filled colon.					
	<ul> <li>If area of suspicion is rectum, we do not need all the detailed digital images for the remainder of the color. Need 2 to 4 large field upmegnified images to</li> </ul>					
	the remainder of the colon. Need 2 to 4 large field unmagnified images to					
	document the remainder of the colon.					
•	The inflatable suff must not be inflated in any national known to have a disease of the					
	o The initiatable cur must not be initiated in any patient known to have a disease of the roctum that would limit its distancibility including roctal apastomosis, roctal mass					
	ulcerative colitis, radiation colitis, known stricture, recent bionsy and Crobn's disease					
	involving the rectum					
	Rectosigmoid region images to be obtained early because possible reflux of contract into the					
	terminal ileum may obscure this area					
	Turn the patient to supine and oblique positions and take spot images of contrast filled colon					
	Manual or mechanical compression (with naddle) should be applied as appropriate to all					
	accessible segments of colon during fluoroscony					
	Look for particition filling defects (mass, strictures, fictules and contrast look during the real time					

• Look for persistent filling defects/mass, strictures, fistulas and contrast leak during the real time

fluoroscony exam									
• Cec	<ul> <li>Cocum: Spot images of distanded cocum in the PPO and LPO positions</li> </ul>								
	$\sim$ Compression with paddle can be beinful								
	$\circ$ Complete cecal filling is confirmed by identifying at least one of the 3 landmarks:								
		annendix annendiceal stump or ileocecal value							
		appendix, appendiced stuffip, of neocecal valve.							
	Ī	lateral position.							
• Tak	Take additional images of any region which was not well distended initially.								
	<ul> <li>Compression with paddle can be helpful.</li> </ul>								
IMAGE DOCUMENTATION:									
<ul> <li>Spo</li> </ul>	t ima	ges needed:							
	o F	Rectum: Left lateral decubitus (befor	re inflating balloon)						
	<ul> <li>Rectosigmoid: prefer LPO, Supine AP, and/or RPO</li> </ul>								
	<ul> <li>Descending Colon: prefer RPO</li> </ul>								
	<ul> <li>Splenic flexure: prefer RPO</li> </ul>								
	<ul> <li>Transverse colon: prefer supine AP</li> </ul>								
	<ul> <li>Hepatic flexure: prefer LPO</li> </ul>								
	<ul> <li>Ascending colon: prefer LPO</li> </ul>								
	o (	Cecum: prefer LPO and RPO							
	• Additional: abnormalities, initially poorly distended segments, terminal ileum if available								
• Ove	Overhead images needed:								
	<ul> <li>Scout AP supine abdomen/pelvis</li> </ul>								
	0 5	Supine AP view to include rectum							
	<ul> <li>LPO view to include flexures</li> </ul>								
	<ul> <li>RPO view to include flexures</li> </ul>								
	<ul> <li>Optional: post evacuation- for suspected fistula (prefer PA prone)</li> </ul>								
ADDITIONA	LWC	ORKFLOW STEPS:							
• Qua	ality a	ssurance indicators:							
	<ul> <li>Compression views may be helpful</li> </ul>								
	• Each accessible segment of the colon is seen during fluoroscopy, minimizing overlap of								
	the colon loop								
REFERENCES:									
• <u>Ger</u>	General Fluoroscopy Considerations								
• Pro	Procedure Contrast Grid								
ACF	• ACR Practice Parameter for the Performance of Fluoroscopic Contrast Enema Examinations in								
Adu	Adults, amended 2014								
• Bov	Bowel Preparation Reference								
Last Edit Date:		6/8/2015	Last Review Date:	6/8/2015					