**UGI – Single Contrast (FLPUGI)**

**Imaging Procedure**

**Explain procedure to patient and parent**
- Patient is AP, flat on back with head turned to right.
- Patient starts drinking barium
  - Take at least two full esophagus films, held or exposed.
  - Watch stomach fill, fundus full prior to any emptying of stomach. *(It is imperative to see C-loop while the stomach is in the EARLY filling stages. Attempting to see the DJJ in the LUO through a barium-filled stomach may be impossible)*
    - Turn patient onto right side or RAO (in a position that allows stomach to empty)
    - Wait for stomach to empty.
    - Take at least one exposure of bulb and C-loop full of barium. ‘Hold’ can be used to obtain any other images that might be needed.
  - *(Next step & imaging of exam is extremely important)*
  - Once stomach empties enough, quickly turn patient AP
    - Take image of duodenojejunal junction (DJJ) *(It is imperative to show, on a straight AP film, that the DJJ is to the left of the spine and at the level of the duodenal bulb. Again it is imperative the stomach be in the early stages of filling to allow visualization of the DJJ in the LUO). (If barium hesitates to sweep across spine, transiently turn patient to left. Always watch this process. Use gravity any time you can to help move the barium. Turn patient AP, take the image of the duodenojejunal junction.)*
  - Turn patient to Right lateral or RAO.
    - As the patient is drinking, take 1 – 2 full esophagus films.
  - Have the patient finish drinking. Using the best method to visualize a reflux for the particular patient, check for reflux.
    - Take image of esophageal/cardiac antrum and any reflux.
  - Document the total amount of barium patient drank and the amount of barium refluxed by the patient directly on the reflux image.
  - If no reflux
    - Take full view AP stomach image. Document amount of barium ingested for procedure on the image. Also document ‘no reflux visualized’

**Preparation:**
Patient will be NPO, according to age:
- Newborn – 1 ½ y/o: 3 hrs NPO
- 1 ½ - 4 y/o: 4 hrs NPO
- 4 – 6 y/o: 6 hrs NPO
- 6 – 10 y/o: 8 hrs NPO

**Anatomy Visualized:**
Esophagus, stomach, pylorus, duodenal bulb & duodenojejunal junction (DJJ)

**Contrast:**
- Newborn – 10 y/o - Barosperse 225 (powder) - add water
  - If the patient is still taking a bottle, the amount of barium given will be equal to the normal amount of milk / formula given at feeding time. For example: If child is fed 3 oz. milk or formula normally then 3 oz. of barium will be used for UGI.

**Examples of studies in PACS:**
- Under 1 yr: Acc# 5985007
- 1 – 19 y/o: Acc# 5999520
- The study and images are checked by the radiologist prior to the patient’s departure.