VCUG - Voiding Cystourethrogram - FLPVCUG

**Preparation:** - none

**Anatomy Visualized:** - Kidneys, ureters, bladder and urethra

**Contrast:** - Cysto-Conray or Cystografin

(formula for the amount of contrast used: Age + 2 x 30)

For example, on a 1 y/o pt: - the contrast amount would be 1 + 2 x 30 = 90 ml of contrast

The radiographic table should be properly protected from any possible contrast soilage or spills.

**Catheter:** - 6.5 or 8 French Feeding tube

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**VCUG – FLPVCUG**

**Imaging Procedure:**

*Explain procedure to patient and parent*

- Catheter is inserted
  - AP – Image of kidneys is obtained
  - AP – Image of bladder is obtained

- Contrast is turned on
  - Take 1 image when base of bladder is filled

- Continue filling using intermittent fluoro to check for reflux
  - If reflux – take 1 image

- Full Bladder
  - Take 2 images – RPO & LPO to demonstrate the ureteral-bladder junctions.

- Turn patient AP, with catheter still inserted but tape removed,
  - The patient is asked to void
    - Take only the minimum number of images needed to document the entire urethra (or hold the image if needed)
    - **DO NOT SEQUENCE EXPOSE THE VOIDING PROCESS!!**

  Move the fluoro tower up slightly and watch bladder for reflux.
  - Visually watch the patient, only use fluoro when you see that the patient has started to void.
    - If male patient, for voiding image, turn patient to the left to see the urethra in profile. A full urethra image with the direction of the stream must be obtained. Make sure the assistant does not block the stream with the towel or urinal.
  - **DO NOT SEQUENCE EXPOSE THE VOIDING PROCESS!!**

  - Take 1 image of kidneys
  - Take 2 images of bladder

- The study and images are checked by the radiologist prior to the patient’s departure.