

## Retrograde Urethrogram (RUG)

**PURPOSE / CLINICAL INDICATION:**

- Evaluate caliber and contour of anterior urethra

**SPECIAL CONSIDERATIONS / CONTRAINDICATIONS:**

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	ORDERABLE NAME:	EPIC BUTTON NAME:	NOTES:
<b>UTSW</b>	XR Retrograde Urethrogram XR Urethrogram Retrograde (RUG)		
<b>PHHS</b>	XR Retrograde Urethrogram		

**EQUIPMENT / SUPPLIES / CONTRAST:**

- 10 Fr catheter (or smaller caliber)
- Surgilube
- 4x4 gauze
- Betadine
- 20 cc syringe
- Connector tubing
- Sterile gloves
- Nonionic iodinated contrast
- Optional supplies: 7 Fr catheter, 5 Fr catheter, catheter tip syringe

**PATIENT PREPARATION:**

- Review for contrast allergy

**PROCEDURE IN BRIEF:**

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**COMPLETE PROCEDURE TECHNIQUE:**

- Position patient in RPO position supported with wedge cushion. Take scout view.
- Prep patient. Clean distal penis with betadine. Use sterile drape.
- Prime catheter with contrast.
- Secure catheter in distal penile urethra with any of the techniques below.
  - Use catheter tip syringe to occlude urethral lumen. Use gauze sling around distal penis to apply traction.
  - Insert balloon catheter and gently inflate (max 3 cc) to occlude urethral lumen and apply traction.
  - Use fingers to secure catheter, occlude urethral lumen, and apply traction.
- Inject contrast slowly to opacify the urethra. Take images during early and maximal distention.
- Attempt to reflux contrast past the urinary sphincter into the posterior urethra. Have patient breathe deeply, then Valsalva, then breathe deeply while injecting contrast when the patient is relaxed. Take image documenting contrast filling the posterior urethra/bladder.
- Optional: If there is concern for distal penile urethral abnormality, image this region @2/sec when removing catheter at end of exam.

**IMAGE DOCUMENTATION:**

- Scout RPO view
- RPO view during early and maximal distention
- Additional views to optimally demonstrate abnormality (right lateral, steep/shallow RPO, frontal, 2/sec of distal penile urethra)

UT Southwestern Department of Radiology

<b>ADDITIONAL WORKFLOW STEPS:</b>			
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<b>REFERENCES:</b>			
• <a href="#">General Fluoroscopy Considerations</a>			
• <a href="#">Procedure Contrast Grid</a>			
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