



MR Penis

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Last Reviewed: 6/13/2026

Standard uses: Metastatic tumors of the urethra or penis, malignant tumors of the urethra or penis, benign tumors of the urethra or penis, tuberculosis of the urethra or penis, blunt penile or urethral trauma, penetrating penile injury, condyloma acuminata, postirradiation Injuries, penile fracture

Patient prep: Position penis midline if possible, use tape if needed

Oral contrast: None

Coil: Phase array body coil

Coverage: Position the coil such that there is good coverage and signal from Penis.

Intravenous contrast: Single dose gadolinium.

Adult - 0.5 mmol/mL, maximum 20mL. Administer 2mL per second, example - MultiHance/ProHance/Doterem
0.25 mmol/mL, maximum 10mL, Administer 1.5mL per second, example - Gadavist

Anti-peristaltic agent: None

SUMMARY:

1. Localizer
2. Sag T2
3. Cor T2
4. Ax T1
5. Ax T2
6. Ax STIR
7. Ax Diff
8. Cor T1FS Post
9. Ax T1FS Post
10. Sag T1FS Post

SEQUENCES:

1. **Sagittal T2 Turbo SE (TSE, FSE)**
 - a. Small FOV to pt anatomy, ≈ 200
 - b. Goal parameters
 - i. Coverage enough to cover entire penis
 - ii. Slice thickness 3mm
 - iii. Pixel area $\leq 1.0\text{mm}^2$
 - iv. Gap 0



2. Coronal T2 Turbo SE (TSE, FSE)

- a. Small FOV to pt anatomy, ≈ 200
- b. Goal parameters
 - i. Coverage enough to cover entire penis
 - ii. Slice thickness 3mm
 - iii. Pixel area $\leq 1.0\text{mm}^2$
 - iv. Gap 0

3. Axial T1 Turbo SE (TSE, FSE)

- a. Small FOV to pt anatomy, ≈ 200
- b. Goal parameters
 - i. Coverage enough to cover entire penis
 - ii. Slice thickness 3mm
 - iii. Pixel area $\leq 1.0\text{mm}^2$
 - iv. Gap 0

4. Axial T2 Turbo SE (TSE, FSE)

- a. Small FOV to pt anatomy, ≈ 200
- b. Goal parameters
 - i. Coverage enough to cover entire penis
 - ii. Slice thickness 3mm
 - iii. Pixel area $\leq 1.0\text{mm}^2$
 - iv. Gap 0

5. Axial Short-Tau IR (STIR, TIRM, Fast STIR)

- a. Small FOV to pt anatomy, ≈ 200
- b. Goal parameters
 - i. Time of Inversion, (TI) 140-180
 - ii. Coverage enough to cover entire penis
 - iii. Slice thickness 3mm
 - iv. Pixel area $\leq 1.0\text{mm}^2$
 - v. Gap 0

6. Axial DWI with ADC map

- a. Small FOV to pt anatomy, ≈ 300
- b. Goal parameters
 - i. b-value 50, 400, 800
 - ii. Coverage enough to cover entire penis
 - iii. Slice thickness 3mm
 - iv. Pixel area $\leq 1.0\text{mm}^2$
 - v. Gap 0

7. Coronal T1FS Turbo SE (TSE, FSE) Post

- a. Small FOV to pt anatomy, ≈ 200
- b. Goal parameters
 - i. Coverage enough to cover entire penis
 - ii. Slice thickness 3mm



- iii. Pixel area $\leq 1.0\text{mm}^2$
- iv. Gap 0

8. Axial T1FS Turbo SE (TSE, FSE) Post

- a. Small FOV to pt anatomy, ≈ 200
- b. Goal parameters
 - i. Coverage enough to cover entire penis
 - ii. Slice thickness 3mm
 - iii. Pixel area $\leq 1.0\text{mm}^2$
 - iv. Gap 0

9. Sagittal T1FS Turbo SE (TSE, FSE) Post

- a. Small FOV to pt anatomy, ≈ 200
- b. Goal parameters
 - i. Coverage enough to cover entire penis
 - ii. Slice thickness 3mm
 - iii. Pixel area $\leq 1.0\text{mm}^2$
 - iv. Gap 0