



Defecography – Pelvis/Rectal

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Standard uses: Rectal prolapse, evaluate lead point and other organ prolapse, constipation

Patient prep:

- (1) Enema.
- (2) Pt can have Depends on and pulled down on table w/US gel insertion.

Oral contrast: None

Coil: Body coil.

Coverage: Position the coil such that there is good coverage and signal in rectal area.

Intravenous contrast: NONE

150mL of US gel inserted rectally. Use heat packs to warm gel prior to exam.

Anti-peristaltic agent: None

Chuck should be underneath patient during exam.

Bathroom should be easily accessible during exam and prepped for pt.

Orthogonal, no angles.

SUMMARY:

1. Localizer
2. AX T2
3. COR T2
4. SAG T2 HASTE -AT REST-
5. SAG CINE -AT REST-
6. SAG CINE -KEGEL-
7. SAG CINE -VALSALVA-
8. SAG CINE -DEFECATION-
9. SAG CINE -DEFECATION-
10. SAG CINE RIGHT OFFSET -DEFFECATION-
11. SAG CINE LEFT OFFSET – DEFFECATION-
12. RESTROOM
13. LOCALIZER
14. SAG CINE POST BATHROOM @ REST



SEQUENCES:

1. Localizer

2. AX T2

- a. Cover mid sacrum to below anal margins, FOV = 200
- b. Goal parameters
 - i. Slice thickness = 3.0mm
 - ii. 0.3mm

3. COR T2

- a. Cover mid pubic symphysis to sacrum, FOV = 200
- b. Goal parameters
 - i. Slice thickness = 5.0mm
 - ii. Gap (if necessary) = 0.5mm

4. SAG T2 HASTE -AT REST-

- a. Perfectly thru anus/rectum. Line from pubic symphysis to gluteal cleft.
- b. Goal parameters
 - i. Slice thickness = 8.0mm
 - ii. Gap (if necessary) = 1.3mm

5. SAG CINE – AT REST-

- a. Perfectly thru anus/rectum. Line from pubic symphysis to gluteal cleft.
- b. Goal parameters
 - i. Slice thickness = 10.0mm
 - ii. Distance factor = 20%

6. SAG CINE – KEGEL -

- a. Kegel is the tightening of pelvic muscles. Same sensation as trying to stop peeing midstream.
- b. Goal parameters
 - i. Slice thickness = 10.0mm
 - ii. Distance factor = 20%

7. SAG CINE – VALSALVA -

- a. Valsalva is increasing pressure in pelvis. Bearing down to have a bowel movement while still holding it in.
- b. Goal parameters
 - i. Slice thickness = 10.0mm
 - ii. Distance factor = 20%

8. SAG CINE – DEFECATION -

- a. Perfectly thru anus/rectum. Line from pubic symphysis to gluteal cleft.
- b. Goal parameters
 - i. Slice thickness = 10.0mm
 - ii. Distance factor = 20%



9. SAG CINE – DEFECATION -

- a. Perfectly thru anus/rectum. Line from pubic symphysis to gluteal cleft.
- b. Goal parameters
 - i. Slice thickness = 10.0mm
 - ii. Distance factor = 20%

10. SAG CINE RIGHT OFFSET – DEFECATION -

- a. Perfectly thru anus/rectum. Line from pubic symphysis to gluteal cleft.
- b. Goal parameters
 - i. Slice thickness = 10.0mm
 - ii. Distance factor = 20%

11. SAG CINE LEFT OFFSET – DEFECATION -

- a. Perfectly thru anus/rectum. Line from pubic symphysis to gluteal cleft.
- b. Goal parameters
 - i. Slice thickness = 10.0mm
 - ii. Distance factor = 20%

12. RESTROOM

- a. Pt will use restroom to evacuate gel.

13. Localizer

14. SAG CINE POST BATHROOM @ REST

- a. Goal parameters
 - i. Slice thickness = 10.0mm
 - ii. Distance factor = 20%