



MR Enterography

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Last Reviewed: 6/13/2026

Standard uses: Crohn's Disease, ulcerative colitis, suspected inflammatory bowel disease, (IBD)

Patient prep: Should be NPO for >4 hours prior to study if possible.

Oral contrast: Negative contrast, (such as Breeza or Volumen). Administer three 450mL bottles over the course of 60 minutes (approximately 1 bottle every 20 minutes). 1350mL total volume.

Coil: Body Coil.

Coverage: Include from the porta hepatis of the liver,(where the vessels enter the liver) to the perineum.

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, Eovist

Anti-peristaltic agent: None

SUMMARY:

1. Localizer BH
Localizer Free Breathing
2. Cor HASTE
3. Cor Trufi
4. Ax HASTE
5. Ax Trufi
6. Cor Trufi Cine
7. Cor Vibe Dixon Pre
8. Cor Vibe Dixon 30 second
9. Cor Vibe Dixon 1:45
10. Cor T1FS Post
11. Ax T1FS Post

SEQUENCES:

1. Localizer
 - a. Breath hold
 - b. Free Breathing



2. Coronal T2 Ultra fast SE (HASTE, SSFSE, FASE)

- a. Multi-breath hold as needed
- b. Complete front to back coverage, A → P, skin to skin.
- c. Goal parameters
 - i. Slice 5 mm (ACR between 4mm-7mm)

3. Coronal T2 Trufi (Trufi, Fiesta, Cosmic, Balanced FFE, True SSFP)

- a. Multi-breath hold as needed
- b. Complete front to back coverage, A → P, skin to skin.
- c. Goal parameters
 - i. Slice 5 mm (ACR between 4mm-7mm)
 - ii. Gap 0mm

4. Axial T2 Ultra-fast (HASTE, SSFSE, FASE)

- a. Multi-breath hold as needed
- b. Stomach to perineum (include as much of stomach and perianal region as possible)
- c. Goal parameters
 - i. Slice 5 mm (ACR between 4mm-7mm)
 - ii. Gap 0mm

5. Axial T2 Trufi (Trufi, Fiesta, Cosmic, Balanced FFE, True SSFP)

- a. Multi-breath hold as needed
- b. Stomach to perineum (include as much of stomach and perianal region as possible)
- c. Goal parameters
 - i. Slice 5 mm (ACR between 4mm-7mm)
 - ii. Gap 0mm

6. Cor T2 Trufi CINE (Trufi, Fiesta, Cosmic, Balanced FFE, True SSFP)

- a. Free Breathing
- b. CINE images covering from anterior abdominal wall to spine covering stomach to anus (include as much as stomach and perianal region as possible)
- c. 10mm

7. Cor T1 Vibe Dixon (LAVA-Flex, mDixon, WFS) Pre Contrast

- a. Breath hold



- b. Images covering from anterior abdominal wall to spine covering stomach to anus (include as much as stomach and perianal region as possible)
- c. Goal parameters
 - i. Slice 2mm

8. Cor T1 Vibe Dixon (LAVA-Flex, mDixon, WFS) 30 Second Delay

- a. Breath hold
- b. Images covering from anterior abdominal wall to spine covering stomach to anus (include as much as stomach and perianal region as possible)
- c. Goal parameters
 - i. 2mm Slice
 - ii. 30 Second Delay

9. Cor T1 Vibe Dixon (LAVA-Flex, mDixon, WFS) 1:45 Minute Delay

- a. Breath hold
- b. Images covering from anterior abdominal wall to spine covering stomach to anus (include as much as stomach and perianal region as possible)
- c. Goal parameters
 - i. 2mm Slice
 - ii. 1:45 Minute Delay

NOTE: Add Subtractions for all phases

10. Coronal T1FS GRE (FLASH, SPGR, T1-FFE, Spoiled Gradient) Post

- a. Breath hold
- b. Images covering from anterior abdominal wall to spine covering stomach to anus (include as much as stomach and perianal region as possible)
- c. Goal parameters
 - i. 2mm Slice

11. Axial T1FS GRE (FLASH, SPGR, T1-FFE, Spoiled Gradient)

- a. Multi-breath hold as needed
- b. Stomach to perineum (include as much of stomach and perianal region as possible)
- c. Goal parameters
 - i. Slice 5 mm (ACR between 4mm-7mm)
 - ii. Gap 0mm