



MR Abdomen and Pelvis

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Last Reviewed: 6/13/2026

Standard uses: Metastasis

Note: Not commonly performed protocol. Consult radiologist, CT may be warranted

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

Oral contrast: None.

Coil: Body Coil.

Coverage: Position the coil such that there is good coverage and signal from the liver and pubic symphysis.

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 ABD/PEL
3. Ax HASTE ABD
4. Ax HASTE FS ABD
5. Ax In-Out of Phase ABD
6. Ax Diff ABD
7. Ax Diff PEL
8. Ax HASTE PEL
9. Ax HASTE FS PEL
10. Ax Vibe PEL Pre
11. Ax Vibe ABD Pre
12. Ax Vibe ABD Arterial
13. Ax Vibe ABD Venous
14. Ax Vibe 5 min ABD Delay
15. Ax Vibe PEL Post
16. Cor Vibe ABD/PEL Post



SEQUENCES:

1. Localizer

- a. Breath hold
- b. Free Breathing

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

- a. Multi-breath hold as needed
- b. Complete front to back coverage, A → P, skin to skin.
- c. Goal parameters
 - i. 5 mm thickness
 - ii. 33% gap (1.7 mm)

3. Axial T2 Ultra fast SE (HASTE, SSFSE, FASE) thin slice withOUT fat suppression ABD

- a. Multi-breath holds as needed
- b. Slices should include coverage of the intrahepatic biliary tree, extrahepatic biliary tree and pancreatic duct.
- c. Goal parameters
 - i. 5 mm thickness
 - ii. 33% gap (1.7 mm)

4. Axial T2 Ultra fast SE (HASTE, SSFSE, FASE) thin slice WITH fat suppression ABD

- a. Multi-breath holds as needed
- b. Slices should include coverage of the intrahepatic biliary tree, extrahepatic biliary tree and pancreatic duct.
- c. Goal parameters
 - i. 5 mm thickness
 - ii. 33% gap (1.7 mm)

5. Axial in and out of phase T1 GRE ABD

- a. Multi-breath holds as needed
- b. Slices should include coverage of the intrahepatic biliary tree, extrahepatic biliary tree and pancreatic duct.
- c. Goal parameters
 - i. 5 mm thickness
 - ii. 20% gap (1mm)



6. Axial DWI with ADC map ABD

- a. Free breathing
- b. Slices extend from dome of liver to inferior aspects of liver and pancreas to include all intrahepatic biliary tree, extrahepatic biliary tree and pancreatic duct.
- c. Goal parameters
 - i. B-values of 0, 600, 800, 1000
 - ii. 5 mm thickness
 - iii. 33% gap (1.7 mm)

7. Axial DWI with ADC map PEL

- a. Free breathing
- b. Slices extend from iliac crests to perineum
- c. Goal parameters
 - i. B-values of 50, 800
 - ii. 5 mm thickness
 - iii. 33% gap (1.7 mm)

8. Axial T2 Ultra fast SE (HASTE, SSFSE, FASE) thin slice withOUT fat suppression PEL

- a. Free breathing
- b. Slices extend from iliac crests to perineum
- c. Goal parameters
 - i. 5 mm thickness
 - ii. 33% gap (1.7 mm)

9. Axial T2 Ultra fast SE (HASTE, SSFSE, FASE) thin slice WITH fat suppression PEL

- a. Free breathing
- b. Slices extend from iliac crests to perineum
- c. Goal parameters
 - i. 5 mm thickness
 - ii. 33% gap (1.7 mm)

10. Axial T1 Ultra fast 3D-GE with fat suppression (VIBE, LAVA, TIGRE) pre-contrast PEL

- a. Free breathing
- b. Slices extend from iliac crests to perineum
- c. Goal parameters
 - i. 5 mm thickness



11. Axial T1 Ultra fast 3D-GE with fat suppression (VIBE, LAVA, TIGRE) pre-contrast ABD

- a. Breath hold
- b. Slices extend from dome of liver to inferior aspects of liver and pancreas to include all intrahepatic biliary tree, extrahepatic biliary tree and pancreatic duct.
- c. Goal parameters
 - i. Slab slices 5mm

12. Axial T1 Ultra fast 3D-GE with fat suppression (VIBE, LAVA, TIGRE) post contrast ABD

- a. Goal parameters
 - i. Copy pre-contrast
- b. Arterial phase trigger off aorta if possible, otherwise time at 25 seconds

13. Axial T1 Ultra fast 3D-GE with fat suppression (VIBE, LAVA, TIGRE) Venous Phase ABD

- a. Goal parameters
 - i. Copy pre-contrast
- b. Venous/Equilibrium phase, 2 minutes

14. Axial T1 Ultra fast 3D-GE with fat suppression (VIBE, LAVA, TIGRE) Delayed Phase ABD

- a. Goal parameters
 - i. Copy pre-contrast
- b. Delayed phase, 5 minutes

NOTE: Add Subtractions for all phases

15. Axial T1 Ultra fast 3D-GE with fat suppression (VIBE, LAVA, TIGRE) Post PEL

- a. Free breathing
- b. Slices extend from iliac crests to perineum
- c. Goal parameters
 - i. 5 mm thickness

16. Coronal T1 Ultra fast 3D-GE with fat suppression (VIBE, LAVA, TIGRE) Post ABD/PEL

- a. Breath hold
- b. Slices extend to cover the entire liver. Sort Anterior to Posterior
- c. Goal parameters
 - i. Slice 5mm
 - ii. 33% Gap (1.7mm)