## **MRI Eovist**

Updated

11/04/23

Reviewed

05/14/25

Indications: FNH versus adenoma after inconclusive standard liver MR, cholangiocarcinoma, biliary anatomy, bile leak, hepaticojejunostomy evaluation, presurgical evaluation of colon metastases to the liver (when ordered as Eovist protocol).

## This protocol must be approved by a body Radiologist.

After the 20 min images are obtained and if the exam is ordered for biliary anatomy, bile leak or hepaticojejunostomy evaluation, have a **body Radiologist check** images for adequate opacification of the biliary tree.

Can repeat axial and coronal T1s every 5 mins until biliary opacification is adequate.

Full Abdomen FOV: Lung bases to iliac crest or to bottom of liver/spleen/kidneys if they extend low (top/bottom coverage) anterior to posterior subq fat (front/back coverage), right to left subq fat (right/left coverage).

MRCP FOV: above central intrahepatic bile ducts to bottom of gallbladder/pancreas (top/bottom coverage), front of gallbladder to few slices posterior to pancreas (front/back coverage), right of gallbladder to left of pancreatic tail (right/left coverage). Go to MRIMaster.com for a guide of proper positioning.

| Pulse Sequence        | PACS Name      | plane | fat<br>sat | slice<br>(mm) | gap<br>(mm) | first<br>slice | Field of View |
|-----------------------|----------------|-------|------------|---------------|-------------|----------------|---------------|
| T2 HASTE/SSFSE        | MRCP THINS COR | cor   | no         | 4             | 0.8         | front          |               |
| T2 HASTE/SSFSE        | MRCP THINS SAG | sag   | no         | 4             | 0.8         | right          | MRCP          |
| T2 HASTE/SSFSE        | MRCP THINS AX  | ax    | no         | 4             | 0.8         | top            |               |
| In/Out Phase w/ DIXON | IN/OUT AX      | ax    | no         | 5             | 1           | top            |               |
| T1 VIBE/LAVA          | T1 FS PRE COR  | cor   | yes        | 3.5           | 0.6         | front          | full abdomen  |
| T1 VIBE/LAVA          | T1 FS PRE AX   | ax    | yes        | 3.5           | 0.6         | top            |               |

**CONTRAST** - 1 mL/sec 10 mL Eovist followed by 20 mL saline flush. All patients receive 10 mL Eovist regardless of weight. For the arterial phase bolus track and trigger when contrast reaches the renal arteries.

| T1 VIBE/LAVA                  | T1 FS ART AX     | ax  | yes | 3.5 | 0.6 | top   |              |
|-------------------------------|------------------|-----|-----|-----|-----|-------|--------------|
| T1 VIBE/LAVA                  | T1 FS 70 SEC AX  | ax  | yes | 3.5 | 0.6 | top   |              |
| T1 VIBE/LAVA                  | T1 FS 3 MIN COR  | cor | yes | 3.5 | 0.6 | front |              |
| T1 VIBE/LAVA                  | T1 FS 5 MIN AX   | ax  | yes | 3.5 | 0.6 | top   |              |
| T2 HASTE/SSFSE                | T2 COR           | cor | no  | 7   | 1.4 | front |              |
| T2 HASTE/SSFSE                | T2 AX            | ax  | no  | 7   | 1.4 | top   |              |
| T2 HASTE/SSFSE                | T2 FS AX         | ax  | yes | 7   | 1.4 | top   |              |
| T1 VIBE/LAVA                  | T1 FS 10 MIN AX  | ax  | yes | 3.5 | 0.6 | top   | full abdomen |
| T1 VIBE/LAVA                  | T1 FS 10 MIN COR | cor | yes | 3.5 | 0.6 | front |              |
| Diffusion<br>(b50, b800, ADC) | DIFFUSION AX     | ax  | yes | 7   | 1.4 | top   |              |
| T1 VIBE/LAVA                  | T1 FS 15 MIN AX  | ax  | yes | 3.5 | 0.6 | top   |              |
| T1 VIBE/LAVA                  | T1 FS 15 MIN COR | cor | yes | 3.5 | 0.6 | front |              |
| T1 VIBE/LAVA                  | T1 FS 20 MIN AX  | ax  | yes | 3.5 | 0.6 | top   |              |
| T1 VIBE/LAVA                  | T1 FS 20 MIN COR | cor | yes | 3.5 | 0.6 | front |              |

## **RECONS:**

axial and coronal subtractions