

PROTOCOL: MRI ABDOMEN WWO-HEPATOBILIARY (LIVER/PANCREAS) MAY UTILIZE EOVISt; REQUIRES 3D MRCP IF MRCP IS ORDERED

CLINICAL INDICATIONS/ HISTORY: F/U OR EVAL KNOWN LIVER MASS, F/U METS, HEMANGIOMA, ADENOMA, FNH, CHOLANGITIS, LIVER CA, RENAL MASS, PANCREATIC MASS, ADRENAL MASS

SCAN ORDER	PLANE	IMAGE CONTRAST / WEIGHTING	MODE	PULSE SEQ	COVERAGE	TR RANGE	TE RANGE	FLIP ANGLE	THICKNESS / GAP (mm)	FOV (cm)	MAX PIXEL - Fr x Ph (mm)	PHASE AXIS	SEND TO PACS	MAX SCAN TIME (TARGET)
1	COR	T2	2D	SSFSE/ HASTE	ENTIRE ABDOMEN: KIDNEYS, LIVER, PANCREAS, ADRENALS FROM ABOVE DIAPHRAGM TO BIFURCATION OR THROUGH LOWEST KIDNEY	>1000	100	>130	5/1	40	1.0X2.0	SI	FULL SERIES	<18s BH
IF ORDER SPECIFICALLY MENTIONS MRCP, THE 3D MRCP *MUST* BE SCANNED. THIS REPLACES THE 2D CORONAL, UNLESS THE 3D DOES NOT COME OUT, IN WHICH CASE, SCAN THE 2D CORONAL AS WELL														
2S	COR	T2 MRCP FS	2D	SSFSE/ HASTE	4-5 SLICES TO COVER LIVER & PANCREAS	>4000	>180	>130	50/OVLP	40	1.0X1.0	RL	FULL SERIES	5s/SLICE
2M	COR	T2 MRCP FS	3D	SPACE/CUBE /FSE	CENTRAL BILIARY TREE AND PANCREAS	AUTO	>180	>130	1.4-2.0/OVLP	32-35	1.3x1.85	RL/PA	FULL SERIES+ AX/SPIN MIP	8:00 (NAVI)
3	AX	T2	2D	SSFSE/ HASTE	ENTIRE ABDOMEN	>1000	100	>130	5/1	36	1.25X2.25	PA	FULL SERIES	<18s BH
4	AX	T1 DIXON/FLEX IN/OUT/FS	3D	LAVA FLEX/ VIBE DIXON	ENTIRE ABDOMEN	MIN	AUTO	8-15	3-4/OVLP	36	1.25X2.25	PA	IN/OUT/WATER	<18s BH
USE CAREBOLUS/BOLUS TRACKING FOR ARTERIAL PHASE TIMING														
5-6-7+C	AX	T1FS DIXON/FLEX ARTERIAL, 70s, 120s	3D	LAVA FLEX/ VIBE DIXON	ENTIRE ABDOMEN	MIN	AUTO	8-15	3-4/OVLP	36	1.25X2.25	PA	WATER	<18s BH
8+C	COR	T1FS DIXON/FLEX	3D	LAVA FLEX/ VIBE DIXON	ENTIRE ABDOMEN	MIN	AUTO	8-15	3-4/OVLP	40	1.2X2.0	RL	WATER	<18s BH
9+C	RADIAL	T2 MRCP FS	2D	SSFSE/ HASTE	COVER 180 DEGREES STARTING WITH SAGITTAL MOVING CLOCKWISE WITH 22.5 DEGREES SPACING	>4000	>180	>130	50/22.5 DEGREE SEPARATION	40	1.0X1.0	RL/PA	FULL SERIES	5s/SLICE
10+C	AX	T2 FS	2D	FSE/ PROPELLER/ BLADE	ENTIRE ABDOMEN	PER BREATH HOLD	100	>130	5/1	36	1.5X1.5	PA	FULL SERIES	<18s BH
11+C	AX	DWI b50/800	2D	EPI DWI	ENTIRE ABDOMEN	MIN	MIN	180	5/1	36	3.5X3.5	AP	FULL SERIES+ADC	<18s BH
THE FOLLOWING SCANS SHOULD BE INCLUDED IF USING STANDARD (NON-EOVISt) CONTRAST														
SCAN ORDER	PLANE	IMAGE CONTRAST / WEIGHTING	MODE	PULSE SEQ	COVERAGE	TR RANGE	TE RANGE	FLIP ANGLE	THICKNESS / GAP (mm)	FOV (cm)	MAX PIXEL - Fr x Ph (mm)	PHASE AXIS	SEND TO PACS	MAX SCAN TIME (TARGET)
12+C (10 MINUTES DELAY)	AX	T1FS DIXON/FLEX	3D	LAVA FLEX/ VIBE DIXON	ENTIRE ABDOMEN	MIN	AUTO	15	3-4/OVLP	36	1.25X2.25	PA	WATER	<18s BH
13+C (10 MINUTES DELAY)	COR	T1FS DIXON/FLEX	3D	LAVA FLEX/ VIBE DIXON	ENTIRE ABDOMEN	MIN	AUTO	15	3-4/OVLP	40	1.2X2.0	RL	WATER	<18s BH
THE FOLLOWING SCANS SHOULD BE INCLUDED IF USING EOVISt CONTRAST														
SCAN ORDER	PLANE	IMAGE CONTRAST / WEIGHTING	MODE	PULSE SEQ	COVERAGE	TR RANGE	TE RANGE	FLIP ANGLE	THICKNESS / GAP (mm)	FOV (cm)	MAX PIXEL - Fr x Ph (mm)	PHASE AXIS	SEND TO PACS	MAX SCAN TIME (TARGET)
12+C (15 MINUTES DELAY)	AX	T1FS DIXON/FLEX	3D	LAVA FLEX/ VIBE DIXON	ENTIRE ABDOMEN	MIN	AUTO	30	3-4/OVLP	36	1.25X2.25	PA	WATER	<18s BH
13+C (20 MINUTES DELAY)	AX	T1FS DIXON/FLEX	3D	LAVA FLEX/ VIBE DIXON	ENTIRE ABDOMEN	MIN	AUTO	30	3-4/OVLP	36	1.25X2.25	PA	WATER	<18s BH