

Radiology of Indiana

Protocols		Scan #	FOV (CM)	Slice Thickness (mm)	Spacing (mm)	Special Instructions/Comments
Abdomen						Any abdomen study without an organ specific indication. Otherwise, see organ specific protocol.
	Ax Fiesta/ True FISP		~30-40	5	1	
	Ax 3D Dual Echo		~30-40	5	2.5	
	Ax T2 SSFSE/HASTE		~30-40	5	1	
	Cor T2 SSFSE/HASTE		~30-40	4	1	
	Ax T2 FS Propeller/T2 Haste FS		~30-40	5	1	
	Ax DWI (50/1000)		~30-40	8	2	Only send B50 and 1000
	ADC		~30-40	8	2	
	Ax Pre (Lava or sim)		~30-40	5	2.5	If there is a "mask" phase you don't need to complete pre-contrast LAVA. If not, we need a separate pre-contrast LAVA.
	Ax Post Dyn (20 sec, 1 min 3 min)		~30-40	5	2.5	
	Cor Post 5 min		~30-40	4	2	
	Ax Post 10 min		~30-40	5	2.5	
	Ax T1 Lava 20 min (Eovist only)		~30-40	5	2.5	FYI: All Vibes/Lavas should be Fat Sat or "water only" images for all MRI body protocols
Adrenal						
	Ax Fiesta/ True FISP		~30-40	5	1	
	Ax 3D Dual Echo		~30-40	5	2.5	
	Coronal 3D Dual Echo		~30-40	5	2.5	
	Ax T2 SSFSE/HASTE		~30-41	5	1	
	Cor T2 SSFSE/HASTE		~30-40	4	1	
	Ax T2 FS Propeller/T2 Haste FS		~30-40	5	1	
	Ax DWI (50/1000)		~30-40	8	2	Only send B50 and 1000
	ADC		~30-40	8	2	
	Ax Lava or similar		~30-40	5	2.5	
Liver						
	Ax Fiesta/ True FISP		~30-40	5	1	Please refer to Liver & Abdominal MRI Clinical Guidelines for Gadolinium Based Contrast Agents
	Ax 3D Dual Echo		~30-40	5	2.5	For dedicated liver indication, axial coverage can be from lung bases to below liver. Does not need to cover below kidneys
	Ax T2 SSFSE/HASTE		~30-41	5	1	
	Cor T2 SSFSE/HASTE		~30-40	4	1	
	Ax T2 FS Propeller/T2 Haste FS		~30-40	5	1	
	Ax DWI (50/1000)		~30-40	8	2	Only send B50 and 1000
	ADC		~30-40	8	2	
	Ax Pre (Lava or sim)		~30-40	5	2.5	
	Ax Post Dyn (20 sec, 1 min 3 min)		~30-40	5	2.5	
	Cor Post 5 min		~30-40	4	2	
	Ax Post 10 min		~30-40	5	2.5	
	Ax T1 Lava 20 min (Eovist only)		~30-40	5	2.5	
Pancreas with MRCP						
	Ax Fiesta/ True FISP		~30-40	3	1	* Use Gadavist and have Body Radiologist review last set of images to determine if delayed images need to take place, if no bile leak identified.
	Ax 3D Dual Echo		~30-40	4	2	Pancreatic protocol must include MRCP in order
	Ax T2 SSFSE/HASTE		~30-41	5	1	F/U IPMN, pancreatic cyst, chronic pancreatitis, pancreatic mass.
	Cor T2 SSFSE/HASTE		~30-40	4	1	For dedicated pancreas indication, axial coverage can be from bottom of heart/left hemidiaphragm to below C-loop of duodenum. Plan from coronal localizer. Coronal images must cover pancreas from front to back using axial images for planning. Do not need to cover skin to skin on coronal. Smallest FOV as possible.
	Ax T2 FS Propeller/T2 Haste FS		~30-40	7	1	Only send B50 and 1000
	Ax DWI (50/1000)		~30-40	40	0	3 Oblique views. See planning images
	2D MRCP		~30-40	1.4	0.7	Focus on pancreatic duct
	Cor 3D MRCP		~30-40			Single thick slab from 3D images
	3D MIP		~30-40	7	1	
	ADC		~30-40	3	1	
	Ax Pre (Lava or sim)		~30-40	4	1.5	
	Ax Post Dynamic (45 sec, 80 sec, 3 min)		~30-40	4	2	
	Cor Post 5 min		~30-40	3	1	
	Ax Post 10 min		~30-40			
Renal						
	Ax Fiesta/ True FISP		~30-40	4	1	For dedicated renal indication (usually renal mass), axials must cover from above adrenal glands to below kidneys. Plan from
	Ax 3D Dual Echo		~30-40	6	1.5	localizer. Does not need to cover entire abdomen. Coronal images must cover both kidneys from front to back using axial
	Ax T2 SSFSE/HASTE		~30-41	5	1	images for planning. Do not need to cover skin to skin.
	Cor T2 SSFSE/HASTE		~30-40	4	1	
	Ax T2 FS Propeller/T2 Haste FS		~30-40	4	1	
	Ax DWI (50/1000)		~30-40	7	1	Only send B50 and 1000
	ADC		~30-40	7	1	
	Ax Pre (Lava or sim)		~30-40	3	1	
	Cor Pre (Lava or sim)		~30-40	3	1	
	Ax Post Dyn (20 sec, 60 sec, 90 sec)		~30-40	3	1	
	Cor Post 3 min		~30-40	3	1	
	Ax Post (acquired after Cor Post 3 min)		~30-40	3	1	
	Post process subtraction					Cor post minus pre; Ax post minus pre
Liver with MRCP						
	Ax Fiesta/ True FISP		~30-40	5	1	* Use Eovist and have Body Radiologist review last set of images to determine if delayed images need to take place, if no bile leak identified.
	Ax 3D Dual Echo		~30-40	5	2.5	Any MRCP study without a pancreas specific indication (otherwise use Pancreas with MRCP protocol). Must cover entire liver
	Ax T2 SSFSE/HASTE		~30-40	5	1	axial and coronal. Does not need to include entire kidney on axial unless needed to cover liver. Does not need skin to skin coverage
	Cor T2 SSFSE/HASTE		~30-40	4	1	on coronal.
	Ax T2 FS Propeller/T2 Haste FS		~30-40	5	1	
	Ax DWI (50/1000)		~30-40	8	2	Only send B50 and 1000
	ADC		~30-40	7	1	
	2D MRCP		~30-40	40	0	3 Oblique views.
	Cor 3D MRCP		~30-40	1.4	0.7	Single thick slab from 3D images
	3D MIP		~30-40			
	Ax Pre (Lava or sim)		~30-40	5	2.5	
	Ax Post Dyn (20 sec, 1 min 3 min)		~30-40	5	2.5	
	Cor Post 5 min		~30-40	4	2	
	Ax Post 10 min		~30-40	5	2.5	
	Ax T1 Lava 20 min (Eovist only)		~30-40	5	2.5	

Urogram					
	Saline Bolus 100 ml				
	Cor SSFSE	-30-40	6 mm	7 mm	
	Axial SSFSE	-30-40	6 mm	7 mm	
	Axial DE	-30-40	5 mm	2.5 mm	
	Axial LAVA	-30-40	3 mm	1.5 mm	
	Axial T2	-30-40	6 mm	7 mm	
	Axial DWI	-30-40	8 mm	10 mm	
	Give Lasix 10 mg	-30-40			
	2D Cor Oblique (MRCP)	-30-40	60 mm	60 mm	
	3D Cor Oblique (MRCP)	-30-40	2 mm	2 mm	
	Cor LAVA - Dynamic 5 min. & 10 min.	-30-40	3 mm	1.5 mm	
	Axial LAVA 12 minute	-30-40	3 mm	1.5 mm	
	Cor Fiesta	-30-40	6 mm	7 mm	
	Axial Fiesta	-30-40	6 mm	7 mm	
	Cor LAVA - 15 min.	-30-40	6 mm	7mm	
Inguinal Hernia					
	COR T1	36	5 mm	1 mm	
	COR STIR	36	5 mm	1 mm	
	AX T1	36	5 mm	1 mm	
	AX STIR	36	5 mm	1 mm	
	SAG T2 Fat Sat	36	5 mm	1 mm	
	AX SSFSE without Valsalva	36	5 mm	1 mm	
	AX SSFSE with Valsalva	36	5 mm	1 mm	
	AX SSFSE Fat Sat without Valsalva	36	5 mm	1 mm	
	AX SSFSE Fat Sat with Valsalva	36	5 mm	1 mm	
	COR SSFSE without Valsalva	36	5 mm	1 mm	
	COR SSFSE with Valsalva	36	5 mm	1 mm	
	AX T1 Fat Sat Pre	36	5 mm	1 mm	Only if referring physicaian ordered with contrast
	AX T1 Fat Sat + C	36	5 mm	1 mm	Only if referring physicaian ordered with contrast
	COR T1 Fat Sat + C	36	5 mm	1 mm	Only if referring physicaian ordered with contrast