

# MRCP (Magnetic Resonance Cholangiopancreatography)

## CLINICAL INDICATIONS:

Common bile duct, Pancreatic duct, and Gall bladder, Stones

parameter	SERIES 1	SERIES 2	SERIES 3	SERIES 4	SERIES 5	SERIES 6	Series 7	Series 8	Series 9	Series 10
description	3-PLN LOC	IN/OUT AX	MRCP thick	LAVA AX FS C+	T1 COR FS C+	T2 AX LIVER FS	Axial diffusion	LAVA AX FS C+	MRCP thin	AX T1 FSPGR C+
entry	supine	supine	supine	supine	supine	supine	supine	supine	supine	supine
position	Feet First	Feet First	Feet First	Feet First	Feet First	Feet First	Feet First	Feet First	Feet First	Feet First
coil	TORSO	TORSO	TORSO	TORSO	TORSO	TORSO	TORSO	TORSO	TORSO	TORSO
plane	3-PLN	AXIAL	OBL	AXIAL	AXIAL	AXIAL	AXIAL	AXIAL	COR	AXIAL
pulse seq.	FGRE	SPGR	SSFSE	LAVA	SPGR	FRFSE-XL	Diffusion	LAVA	FRFSE-XL	
im options		EDR, Asset	Z512,Z512	zip2 smart prep, MPh	EDR	RT,TRF,Z512,FC		zip2	RT,zip2,asset	
PSD Name									FR,MRCP	
Te		dual echo	1170		out-of-phase	140	Minimum	out-of-phase		IN phase
TR		175	4000		160			160		145
TI										
flip angle		80		12	80			90		80
ETL						23				
RBW			31	62	31	41	250	31	25	83.33
SATS				sp	FAT, S,I	FAT,S,I		FAT,S,I		FAT
FOV	48	44	27	44	48	36		44	32	
slice thick	5	5	40	5	7	4	8	6	1.4	5
spacing	5	1		0	1	1	2	1		1
				38 locs						
F Phase	256	256	320	384	384	256	128	384	320	256
P Phase	128	256	224	192	128	192	128	192	320	192
NEX	1	1		1	1	4		1		1
Phase FOV	1	1	1	1	1	1	1.0	0.8	1	1
FREQ DIR		R/L	R/L	R/L	S/I	R/L	R/L	R/L	R/L	R/L
COVERAGE				3 passes	5 m in delay			20 m in delay		
contrast				Eovist	Eovist	Eovist	Eovist	Eovist		

## Comments:

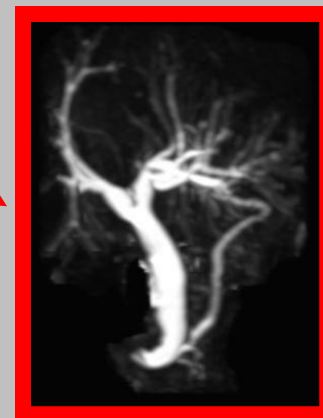
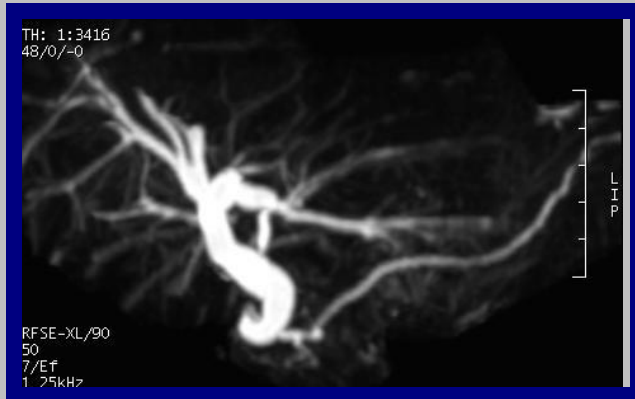
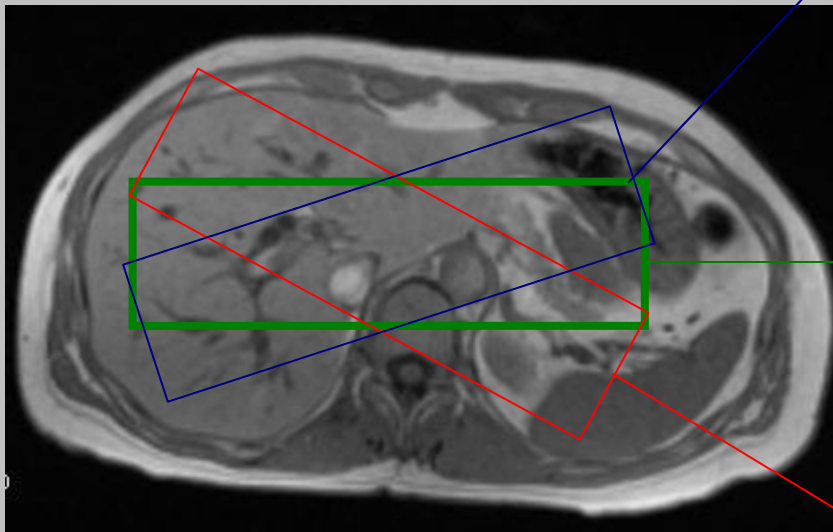
Patient is to be NPO for 6 hours  
 Glucagon: 1mg IM administered 2 minutes prior to procedure

## Bolus timing: smartprep

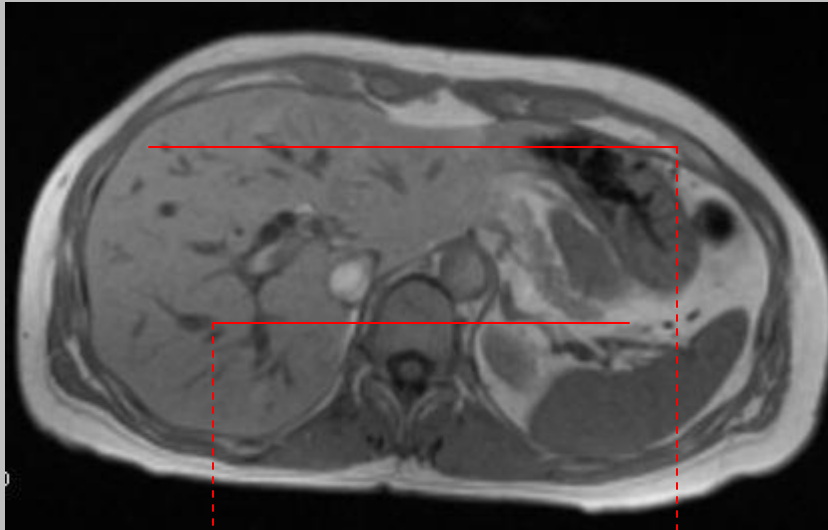
- 1<sup>st</sup> pass contrast plus 8 seconds
- 2<sup>nd</sup> pass contrast plus 25 seconds
- 3<sup>rd</sup> pass contrast plus 65 seconds

# MRCP Thick Slab

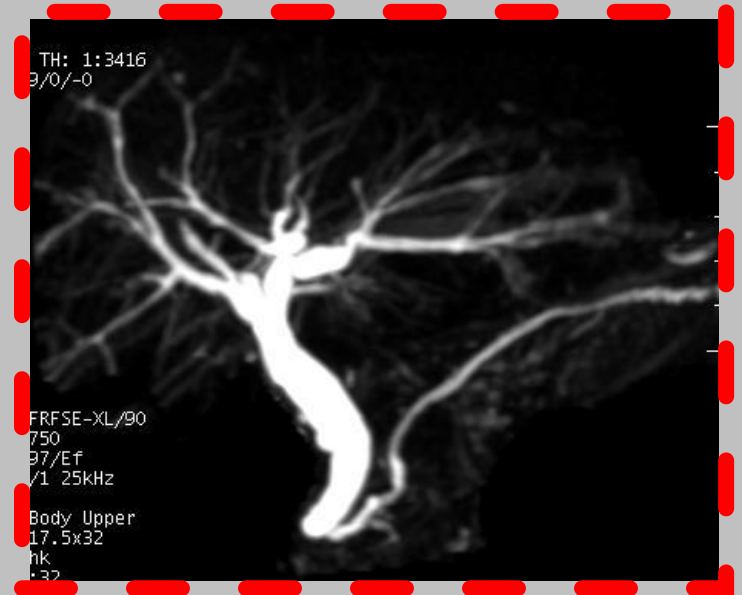
(positioning)



# Coronal MRCP Thin Slab (positioning)



MRCP thin slab



Load into IVI and rotate

# MRCP Processing

1. Create a MIP of the liver using the 20 minute delay 3D Volumetric series.



(MIP in IVI and rotate)

2. Process DWI series with functool, create a ADC map.
3. Create a MIP of the liver using the T2 weighted MRCP 3D Volumetric series.



(MIP in IVI and rotate)