
 University Health™	POLICY #: Rad Proc 14. 15. 20
SUBJECT: RENAL MRA	Effective: 10/1/2013 Revised: 2/2015: 10/2017
APPROVED BY Eduardo Gonzalez-Toledo, MD PhD	Page 1 of 2

ORIENTATION: FEET FIRST/SUPINE COIL: HD BODYFULL

PLANE	3 PLN LOC	Calibraaation scan BH	AX T2 FRFSE BH FS	AX 2D FIESTA FS	Inh 3D inFlowIR AX	COR CE MRA Ftr FS
SEQ	SSFSE	GRE	FDRFSE-XL	FIESTA	Fast/FIR/ERT/ZIP512 /ZIP2 Asset	Vasc TOF SPGR
MODE	2D	2D	2D	2D	3D	3D
IMAGING OPTIONS	SEQ/FAST /SS	FAST/CALIB	TRF/FAST/FR/ Z512/ASSET	SWQ/FAST/AS SET	FAST/ASSET	FAST/ZIP2/Flouro//MPhVar
TE	80 ms+		90	MIN FULL	90 ms +	Minimum
TR	MIN		2100ms+			
FLIP ANGLE						30
ETL			20			
BW	62.50		22.73	83.33	125	50.00
FOV	40	48	40	36	38	34
SLICE THICKNESS	8	15	8	2	5	2.8
SLICE SPACING	5	0	1	1	0	0
Frequency	320		256	256	256	320
Phase	192		224	320	256	192
NEX			1	1		.75
PHASE FOV	1		1	1	.80	01
FREQ DIR	UNSWAP	A/P	R/L	R/L	R/L	UNSWAP
FLOW COMP DIR						
SHIM	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
PHASE CORRECT	OFF	OFF	ON	ON	OFF	OFF

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NOTES: Acquire the 3 PLN Loc SSFSE PH, CALIBRATION, AX T2 FRFSE BH FS, AX 2D FIEST. Then call the Radiologist to review the acquired images. The remaining sequences included in the study will depend on how the lesion appears on the initial sequences. If contrast is needed, follow the steps below.

Inh 3D inFlowIR AX

SPECIAL is selected on the Inhance InFlow IR sequence. The Inhance InFlowe IR sequence is a respiratory triggered sequence. Prescribe the 2D box for this sequence utilizing the AX FIESTA FS images. INCLUDE THE 3D IFIR SEQUENCE EVEN THOUGH CONTRAST WILL BE ADMINISTERED.

COR CE MRA Ftr FS

Have the patient hold their breath for the mask. Once in the FtR screen, use the draw line feature to obtain a good localizer image of the aorta. You must have a good image to facilitate visualization of contrast filling the aorta. You may watch the contrast fill the aorta in either the core or sag plane. Hit go 3D to initiate the scan. The scan will be paused for 4 seconds to allow you to ask the patient to hold their breath. The scan will be a 15 second breath hold. Then the scan will pause and allow you to give breathing instructions for the remaining phases.

Utilize Dotarem for this exam, Use 0.2 mL/kg body weight for age 2 and older per Dr. Sangster; under age 2 consult Radiologist