

Patient Name: RT#:

USER --> MR SIM --> CHEST --> SUPINE BREAST

		Technologist
Setup	Review prior images in PACS	
	Setup power injector (see Table 1)	
	Patient changed into gown	
	Remove all coils and pads (including spine array) from couch	
	Place MR-compatible wing board on couch	
	Confirm wing board and vaclocs fit through MRI bore and coil plugs have clearance	
	External lasers reset (zeroed) prior to setting up patient	
	Respiratory bellows positioned at inferior sternum as navigator backup	
	Position head first supine, straighten using external sagittal laser and patient black marks	
	Place IV (left antecubital preferred)	
	Arms positioned in vacloc to match CT Sim settings (Mosaic)	
	Head phones placed on patient	
	Two flexible, body MATRIX coils supported on bridges and secured with straps	
	Confirm coils do not deform anterior surface anatomy	
Legs positioned on bolster		
External lasers turned off		
Localizers	Expiration breath hold loc	
Acquisition	Center affected breast; Check EPIC for specific instructions	
	Confirm auto-coil select off, coil selection appropriate, and coils same for each sequence	
	High order shim volume adjusted over body and copied to each sequence	
	Confirm positioning mode set to ISO for all sequences	
	Use respiratory period from navigator scout to calibrate TR for all triggered sequences	
	Confirm intensity uniformity correction set to Pre-Scan Normalize (Resolution --> Filter)	
	DWI: Adjust phase FOV to avoid aliasing	
	DWI: Optimize readout bandwidth to minimize effective echo spacing	
	Prescribe Neurography sequence from C5 through T2 (superclav + axillary nodes)	
	If "MR SIM with Interpretation", add missing diagnostic sequences	
Multiphase Dynamic Contrast	Confirm acquisition time for all breath hold phases	<15
	Breath holds performed on expiration	sec
	Bolus tracking slice positioned over descending aorta	
	If 4D-MRI: Run before 5 min delay image	
Images screened for artifacts. If necessary, resolve artifact source and re-acquire		
Post-Scanning	3D distortion correction applied to all images	
	Check Dixon images for fat-water swap; only send actual water-only images to MIM	
	3D distortion corrected images (_DIS3D suffix) sent to MIM_Clinical	
	If 4D-MRI acquired: send Header scan to Bloch	
	If 4D-MRI acquired: Run Yarra client (Ctrl+Esc --> Transfer Raw Data)	
Non-distortion corrected images (_ND or _DIS2D) deleted from PACS		
		Initials/Date:

Table 1: Power Injector Settings

Contrast Media	Gadavist
Contrast Volume	0.1 mL/kg body weight
Injection Rate	2 mL/sec
Saline Flush	5.5 mL

Version 1.1
Date: 3/18/2020