

Patient Name: RT#:

USER --> MR SIM --> CHEST --> ESOPHAGUS

		Technologist
Setup	Review prior images in PACS	
	Setup power injector (see Table 1)	
	Patient changed into gown; confirm whether MR-compatible bra worn during CT sim	
	Flat table overlay positioned on MRI couch and covered with sheet	
	Confirm immobilization device fits through MRI bore and coil plugs have clearance	
	Arm support indexed on flat table overlay	
	External lasers reset (zeroed) prior to setting up patient	
	Respiratory bellows positioned at inferior sternum as navigator backup	
	ECG leads placed on patient	
	Straighten patient using external sagittal laser and patient black marks	
	Place IV (left antecubital preferred)	
	Arm support adjusted to maximize patient comfort or match CT Sim settings (Mosaiq)	
	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 over esophageal tumor; Check EPIC for specific instructions	
	If GE Junction tumor use respiratory gating; if superior tumor use cardiac gating	
	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	
	If "MR SIM with Interpretation", add missing diagnostic sequences	
Multiphase Dynamic Contrast	Confirm acquisition time for all breath hold phases	<15 sec
	Breath holds performed on expiration	
	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