Patient Name: |_____| RT#: |_____|

## USER --> MR SIM --> ABDOMEN --> PANCREAS

|  | 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 | | |
| Straighten patient using external sagittal laser and patient black marks | | |
| Place IV (left antecubital prefered) | | |
| 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 | | |
| Inject 0.5 mg Glucagon IV | | |
| External lasers turned off | | |
| **Localizers** Expiration breath hold loc | | |
| **Acquisition** Prescribe diaphragm through kidneys if possible; must have full liver | | |
| 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 | | |
| Inject remaining 0.5 mg Glucagon IV | | |
| 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 | 3 mL/sec |
| Saline Flush | 5.5 mL |

*Version 1.1*
*Date: 3/18/2020*