

BRYAN RADIOLOGY ASSOCIATES

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Body MR PROTOCOLS

(Revised 11-23-2010)

Abdomen (Liver/pancreas)-all sequences BH

3 Plane Loc

Map

Shim

Cor T2 FASE - 4mm/0 gap

Ax FASE - 5mm/1 gap

Ax T2 Fs - 5mm/1 gap

Ax In Phase/Out phase - 8mm/1.6 gap

Ax T1 Fs - 6mm/1.2 gap

Q3D-Ax T1 Fs post - 2-3mm/(Dynamic)

Ax T1 Fs post - 6mm/1.2 gap

Ax T1 FS Post – 6mm/1.2 gap (5-10 minute delay) Continue to perform diffusion of the abdomen as usual at all St. Joseph facilities.

Abdomen (Renal Mass) all sequences BH

3 Plane Loc

Shim

Map

Cor T2 FASE - 8 mm/1.6 gap

Ax T2 FASE - 5mm/1 gap

Ax In Phase/Out phase - 8mm/1.6 gap

Ax T2 Fs - 8mm/1.6 gap

Q3D Ax T1 Fs post - 3mm/(Dynamic)

Ax T1 Fs post - 8mm/1.6gap

Sag T1 Fs post - 8mm/1.6 gap

Cor T2 Urogram post - 5mm

(Send over subtraction images of the dynamic)

Adrenals all sequences BH

Loc 3 AX

Shim

Map

Cor T2 FASE 8 mm/1.6 gap

AX T2 Fs - 5mm/1 gap

Ax FASE Fs - 5mm/1 gap

Ax In phase/Out phase - 4-5mm/1gap TE must be 2.2 (only cover adrenals and kidneys)

Ax T1 Fs-pre - 6mm/1.1 gap

Q3D-Ax T1 Fs post - 2-3mm/(Dynamic)

Ax T1 Fs post - 6mm/1.2 gap

Female Pelvis

3 Plane Loc (send coronal loc for visualization of kidneys)

Shim

Map

Sag T2 High Resolution/Small FOV

Ax T2 High Resolution/Small FOV

Cor T2 FASE - 8 mm/1.6 gap----include kidneys

Ax In Phase/Out phase - 8mm/1.6gap

Ax T1 Fs - 6mm/1.2 gap

Ax T2 Fs - 5mm/1 gap

Q3D-Ax T1 Fs post - 2-3mm/(ONLY 1 time point at 70s post injection)

Ax T1 Fs post - 6mm/1.2 gap

Sag Fs T1 post-6mm/1.2

(All axials must get above the bifurcation, excluding the dynamic sequence)

Prostate

3 Plane Loc

Shim

Map

Sag High Resolution/Small FOV T2

Ax High Resolution/Small FOV T2

Cor High Resolution/Small FOV T2

Ax Out phase – 8mm/1.6 gap TE must be 2.2

Ax T1 Fs- Small FOV - 6mm/1.2 gap

Ax T1 Fs post - Small FOV 6 mm/1.2 gap

Sag T1 Fs post - Small FOV 6 mm/1.2gap

Ax T1 Fs Normal FOV (bifurcation to prox femurs) post - 6mm/1.2gap

MRCP

Cor T2 Fase - 5mm/ 1 gap

Ax In Phase/Out phase - 6mm/ 1 gap

Ax T2 Fs - 6mm/ 1 gap

Ax T2 Fase - 4mm/ 1 gap

Cor 2D MRCP - 4mm/ 0 gap

Cor 3D MRCP - 2mm/ 0 gap

Ax Q3D Post dynamic

Post Ax T1 Fs - 6mm/ 1.2 gap

Ax T1 FS Post – 6mm/1.2 gap (5-10 minute delay) Continue to perform diffusion of the abdomen as usual at all St. Joseph facilities.

Urethra

Sag T2 /Small Fov - 4mm/ .2 gap
Ax T2 /Small Fov - 4mm/ .2 gap
Ax In Phase/Out phase - 8mm/ 1.6 gap
Ax T2 High Resolution - 3mm/ .2 gap
Post Ax Q3D volume
Ax T1 Fs Post Large Fov - 6mm/ 1.2 gap

MRA Renals

Sag SSFP Loc - 6mm/-3.0 gap
Cor SSFP Loc - 6mm/-3.0
Ax In Phase/Out Phase Sm FOV- 5mm/1.2 gap
AX SSFP - 7mm/1 gap
T-Slip - 3mm
MRA Renals - 3.5mm

Slice thickness is a guideline but can be changed as needed depending on patient habitus but try to keep to them as much as possible.

All abdomen cases are BH and no BH should be longer than 20 secs if not less.

BH for patientsbreath inbreath outand hold your breath.

Breast

Ax Loc
3 Plane Loc
Ax Shim
Map
Ax T1
Ax T2 Fsat
3D pre
3D Dynamic
Sag-High Resolution-Affected breast
Ax T2-High Resolution-Bilateral

Please refer to this website for any sequence acronyms between vendors:

<http://www.imaaios.com/en/e-Courses/e-MRI/MRI-Sequences/Sequences-acronyms>