

Protocol: adult_spine_C SPINE PEDIATRIC SCOLIOSIS

| PATIENT POSITION | | IMAGING PARAMETERS | |
|-----------------------|--------------------------------------|-------------------------|----------------|
| Patient Entry | Head First | Imaging Mode | 2D |
| Patient Position | Supine | Pulse Sequence | Gradient Echo |
| Coil Configuration | HNS by GE (PosteriorHead, Horseshoe) | Imaging Options | NPW, Seq, Fast |
| Plane | 3-PLANE | SCAN RANGE | |
| Series Description | LOC | FOV | 36.0 |
| SCAN TIMING | | Slice Thickness | 5.0 |
| Number of Echoes | 1 | Slice Spacing | 5.0 |
| IMAGE ENHANCE | | ACQ TIMING | |
| Filter Choice | None | Freq | 256 |
| GATING/TRIGGER | | Phase | 128 |
| Auto Trigger Type | Off | Freq DIR | Unswap |
| MULTI-PHASE | | NEX | 2.00 |
| Seperate Series | 0 | Phase FOV | 1.00 |
| Mask Phase | 0 | Auto Shim | Off |
| Mask Pause | 0 | Phase Correction | No |
| DIFFUSION | | FMRI | |
| Recon All Images | On | PSD Trigger | Internal |
| CONTRAST | | Slice Order | Interleaved |
| Contrast Yes/No | No | View Order | Bottom/Up |
| | | # of Repetitions REST | 0 |
| | | # of Repetitions ACTIVE | 0 |
| | | SAT | |
| | | Tag Type | None |
| | | TRICKS | |
| | | Pause On/Off | On |
| | | Auto Subtract | 0 |
| | | Auto SCIC | Off |

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| PATIENT POSITION | | IMAGING PARAMETERS | |
|-------------------------|--------------------------------------|-----------------------------|----------------------------------|
| Patient Entry | Head First | Imaging Mode | 2D |
| Patient Position | Supine | Pulse Sequence | FSE-XL |
| Coil Configuration | HNS by GE (PosteriorHead, Horseshoe) | Imaging Options | FC, NPW, EDR, TRF, Fast, FR, MRF |
| Plane | OBLIQUE | SCAN RANGE | |
| Series Description | SAG T2 | FOV | 24.0 |
| SCAN TIMING | | Slice Thickness | 3.0 |
| Flip Angle | 160 | Slice Spacing | 0.5 |
| TE | 85.0 | ACQ TIMING | |
| Number of Echoes | 1 | Freq | 300 |
| TR | 3261.0 | Phase | 224 |
| Echo Train Length | 21 | Freq DIR | A/P |
| Receiver Bandwidth | 31.25 | Fat Shift DIR | Normal (P) |
| IMAGE ENHANCE | | NEX | 4.00 |
| Filter Choice | None | Phase FOV | 1.00 |
| GATING/TRIGGER | | Auto Shim | Auto |
| Auto Trigger Type | Off | Phase Correction | No |
| FMRI | | Flow Direction Compensation | Freq |
| PSD Trigger | Internal | USER CVS | |
| Slice Order | Interleaved | User CV15 | 2.00 |
| View Order | Bottom/Up | User CV22 | 1.00 |
| # of Repetitions REST | 0 | TR Min | 2800.0 |
| # of Repetitions ACTIVE | 0 | TR Max | 11000.0 |
| SAT | | MULTI-PHASE | |
| SAT Location | S | Seperate Series | 0 |
| SAT Location | I | Mask Phase | 0 |
| Tag Type | None | Mask Pause | 0 |
| TRICKS | | DIFFUSION | |
| Pause On/Off | On | Recon All Images | On |
| Auto Subtract | 0 | CONTRAST | |
| Auto SCIC | 2 | Contrast Yes/No | No |

SAG T2

SAG T2

Protocol: adult_spine_C SPINE PEDIATRIC SCOLIOSIS

| PATIENT POSITION | | IMAGING PARAMETERS | |
|-------------------------|--------------------------------------|------------------------|--------------------------|
| Patient Entry | Head First | Imaging Mode | 2D |
| Patient Position | Supine | Pulse Sequence | FSE-XL |
| Coil Configuration | HNS by GE (PosteriorHead, Horseshoe) | Imaging Options | NPW, EDR, TRF, Fast, MRF |
| Plane | OBLIQUE | SCAN RANGE | |
| Series Description | SAG T1 | FOV | 24.0 |
| SCAN TIMING | | Slice Thickness | 3.0 |
| Flip Angle | 160 | Slice Spacing | 0.5 |
| TE | Min Full | ACQ TIMING | |
| Number of Echoes | 1 | Freq | 320 |
| TR | 478.0 | Phase | 224 |
| Echo Train Length | 3 | Freq DIR | A/P |
| Receiver Bandwidth | 27.78 | Fat Shift DIR | Normal (P) |
| IMAGE ENHANCE | | NEX | 3.00 |
| Filter Choice | None | # of Acq. Before Pause | 0 |
| GATING/TRIGGER | | Phase FOV | 1.00 |
| Auto Trigger Type | Off | Auto Shim | Auto |
| FMRI | | Phase Correction | No |
| PSD Trigger | Internal | USER CVS | |
| Slice Order | Interleaved | User CV15 | 2.00 |
| View Order | Bottom/Up | User CV21 | 2.00 |
| # of Repetitions REST | 0 | User CV22 | 1.00 |
| # of Repetitions ACTIVE | 0 | MULTI-PHASE | |
| SAT | | Seperate Series | 0 |
| Tag Type | None | Mask Phase | 0 |
| | | Mask Pause | 0 |
| TRICKS | | DIFFUSION | |
| Pause On/Off | On | Recon All Images | On |
| Auto Subtract | 0 | CONTRAST | |
| Auto SCIC | 2 | Contrast Yes/No | No |

SAG T1

SAG T1

Protocol: adult_spine_C SPINE PEDIATRIC SCOLIOSIS

| PATIENT POSITION | | IMAGING PARAMETERS | |
|-------------------------|--------------------------------------|-----------------------------|--|
| Patient Entry | Head First | Imaging Mode | 2D |
| Patient Position | Supine | Pulse Sequence | FSE-XL |
| Coil Configuration | HNS by GE (PosteriorHead, Horseshoe) | Imaging Options | FC, NPW, Seq, EDR, TRF, Fast, MRF, IrP |
| Plane | OBLIQUE | PSD Name | frfse-xl |
| Series Description | SAG STIR | SCAN RANGE | |
| SCAN TIMING | | FOV | 24.0 |
| Flip Angle | 160 | Slice Thickness | 3.0 |
| TE | 42.0 | Slice Spacing | 0.5 |
| Number of Echoes | 1 | ACQ TIMING | |
| TR | 4081.0 | Freq | 288 |
| TI | 150 | Phase | 192 |
| Echo Train Length | 13 | Freq DIR | A/P |
| Receiver Bandwidth | 31.25 | Fat Shift DIR | Normal (P) |
| IMAGE ENHANCE | | NEX | 4.00 |
| Filter Choice | None | Phase FOV | 1.00 |
| GATING/TRIGGER | | Auto Shim | Auto |
| Auto Trigger Type | Off | Phase Correction | No |
| FMRI | | Flow Direction Compensation | Freq |
| PSD Trigger | Internal | USER CVS | |
| Slice Order | Interleaved | User CV21 | 1.00 |
| View Order | Bottom/Up | User CV22 | 1.00 |
| # of Repetitions REST | 0 | TR Min | 3500.0 |
| # of Repetitions ACTIVE | 0 | TR Max | 15000.0 |
| SAT | | MULTI-PHASE | |
| SAT Location | S | Seperate Series | 0 |
| SAT Location | I | Mask Phase | 0 |
| Tag Type | None | Mask Pause | 0 |
| TRICKS | | DIFFUSION | |
| Pause On/Off | On | Recon All Images | On |
| Auto Subtract | 0 | CONTRAST | |
| Auto SCIC | 2 | Contrast Yes/No | No |

SAG STIR

SAG STIR

Protocol: adult_spine_C SPINE PEDIATRIC SCOLIOSIS

| PATIENT POSITION | | IMAGING PARAMETERS | |
|-------------------------|--------------------------------------|------------------------|----------------------------------|
| Patient Entry | Head First | Imaging Mode | 2D |
| Patient Position | Supine | Pulse Sequence | FSE-XL |
| Coil Configuration | HNS by GE (PosteriorHead, Horseshoe) | Imaging Options | FC, NPW, EDR, TRF, Fast, FR, MRF |
| Plane | OBLIQUE | SCAN RANGE | |
| Series Description | AX T2 | FOV | 18.0 |
| SCAN TIMING | | Slice Thickness | 3.0 |
| Flip Angle | 160 | Slice Spacing | 1.0 |
| TE | 100.0 | ACQ TIMING | |
| Number of Echoes | 1 | Freq | 288 |
| TR | 3795.0 | Phase | 224 |
| Echo Train Length | 23 | Freq DIR | A/P |
| Receiver Bandwidth | 41.67 | Fat Shift DIR | Normal (A) |
| IMAGE ENHANCE | | NEX | 2.00 |
| Filter Choice | None | # of Acq. Before Pause | 0 |
| GATING/TRIGGER | | Phase FOV | 1.00 |
| Auto Trigger Type | Off | Auto Shim | Auto |
| FMRI | | Phase Correction | No |
| PSD Trigger | Internal | Flow Direction | Slice |
| Slice Order | Interleaved | Compensation | |
| View Order | Bottom/Up | USER CVS | |
| # of Repetitions REST | 0 | User CV15 | 2.00 |
| # of Repetitions ACTIVE | 0 | User CV22 | 1.00 |
| SAT | | TR Min | 2800.0 |
| SAT Location | S | TR Max | 6000.0 |
| SAT Location | I | MULTI-PHASE | |
| Tag Type | None | Seperate Series | 0 |
| TRICKS | | Mask Phase | 0 |
| Pause On/Off | On | Mask Pause | 0 |
| Auto Subtract | 0 | DIFFUSION | |
| Auto SCIC | 2 | Recon All Images | On |
| | | CONTRAST | |
| | | Contrast Yes/No | No |

AX T2

AX T2

Protocol: adult_spine_C SPINE PEDIATRIC SCOLIOSIS

| PATIENT POSITION | | IMAGING PARAMETERS | |
|-------------------------|--------------------------------------|--------------------|----------------------------|
| Patient Entry | Head First | Imaging Mode | 2D |
| Patient Position | Supine | Pulse Sequence | MERGE |
| Coil Configuration | HNS by GE (PosteriorHead, Horseshoe) | Imaging Options | FC, NPW, EDR, Fast, ZIP512 |
| Plane | OBLIQUE | SCAN RANGE | |
| Series Description | AX MERGE | FOV | 18.0 |
| SCAN TIMING | | Slice Thickness | 3.0 |
| Flip Angle | 20 | Slice Spacing | 0.5 |
| Number of Echoes | 4 | ACQ TIMING | |
| TR | 517.0 | Freq | 256 |
| Receiver Bandwidth | 31.25 | Phase | 192 |
| IMAGE ENHANCE | | Freq DIR | A/P |
| Filter Choice | None | NEX | 2.00 |
| GATING/TRIGGER | | Phase FOV | 1.00 |
| Auto Trigger Type | Off | Auto Shim | Auto |
| FMRI | | Phase Correction | No |
| PSD Trigger | Internal | USER CVS | |
| Slice Order | Interleaved | TR Min | 400.0 |
| View Order | Bottom/Up | TR Max | 800.0 |
| # of Repetitions REST | 0 | MULTI-PHASE | |
| # of Repetitions ACTIVE | 0 | Seperate Series | 0 |
| SAT | | Mask Phase | 0 |
| Tag Type | None | Mask Pause | 0 |
| TRICKS | | DIFFUSION | |
| Pause On/Off | On | Recon All Images | On |
| Auto Subtract | 0 | CONTRAST | |
| Auto SCIC | 2 | Contrast Yes/No | No |

AX MERGE

AX MERGE

Protocol: adult_spine_C SPINE PEDIATRIC SCOLIOSIS

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|----------------------|-------------------------|--------------------------------------|-----------------------------|----------------------------------|
| CORONAL SCOLIOSIS T2 | PATIENT POSITION | | IMAGING PARAMETERS | |
| | Patient Entry | Head First | Imaging Mode | 2D |
| | Patient Position | Supine | Pulse Sequence | FSE-XL |
| | Coil Configuration | HNS by GE (PosteriorHead, Horseshoe) | Imaging Options | FC, NPW, EDR, TRF, Fast, FR, MRF |
| | Plane | OBLIQUE | SCAN RANGE | |
| | Series Description | CORONAL SCOLIOSIS T2 | FOV | 24.0 |
| | SCAN TIMING | | Slice Thickness | 3.0 |
| | Flip Angle | 160 | Slice Spacing | 0.5 |
| | TE | 85.0 | ACQ TIMING | |
| | Number of Echoes | 1 | Freq | 300 |
| | TR | 3261.0 | Phase | 224 |
| | Echo Train Length | 21 | Freq DIR | A/P |
| | Receiver Bandwidth | 31.25 | Fat Shift DIR | Normal (P) |
| | IMAGE ENHANCE | | NEX | 4.00 |
| | Filter Choice | None | Phase FOV | 1.00 |
| | GATING/TRIGGER | | Auto Shim | Auto |
| | Auto Trigger Type | Off | Phase Correction | No |
| | FMRI | | Flow Direction Compensation | Freq |
| | PSD Trigger | Internal | USER CVS | |
| | Slice Order | Interleaved | User CV15 | 2.00 |
| | View Order | Bottom/Up | User CV22 | 1.00 |
| | # of Repetitions REST | 0 | TR Min | 2800.0 |
| | # of Repetitions ACTIVE | 0 | TR Max | 11000.0 |
| | SAT | | MULTI-PHASE | |
| | SAT Location | S | Seperate Series | 0 |
| SAT Location | I | Mask Phase | 0 | |
| Tag Type | None | Mask Pause | 0 | |
| TRICKS | | DIFFUSION | | |
| Pause On/Off | On | Recon All Images | On | |
| Auto Subtract | 0 | CONTRAST | | |
| Auto SCIC | 2 | Contrast Yes/No | No | |

CORONAL SCOLIOSIS T2

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| PATIENT POSITION | | IMAGING PARAMETERS | |
|-------------------------|--------------------------------------|------------------------|-----------|
| Patient Entry | Head First | Imaging Mode | 2D |
| Patient Position | Supine | Pulse Sequence | Spin Echo |
| Coil Configuration | HNS by GE (PosteriorHead, Horseshoe) | Imaging Options | Fast, SS |
| Plane | OBLIQUE | SCAN RANGE | |
| Series Description | ---OPTIONS--- | FOV | 22.0 |
| SCAN TIMING | | Slice Thickness | 5.0 |
| TE | Minimum | Slice Spacing | 1.0 |
| TR | Minimum | ACQ TIMING | |
| Receiver Bandwidth | 83.33 | Freq | 128 |
| IMAGE ENHANCE | | Phase | 128 |
| Filter Choice | None | Freq DIR | A/P |
| GATING/TRIGGER | | NEX | 1.0 |
| Auto Trigger Type | Off | # of Acq. Before Pause | 0 |
| FMRI | | Phase FOV | 1.00 |
| PSD Trigger | Internal | Auto Shim | Auto |
| Slice Order | Interleaved | Phase Correction | No |
| View Order | Bottom/Up | USER CVS | |
| # of Repetitions REST | 0 | User CV2 | 240.00 |
| # of Repetitions ACTIVE | 0 | User CV13 | 1.00 |
| SAT | | TR Min | 0.0 |
| Tag Type | None | TR Max | 0.0 |
| TRICKS | | MULTI-PHASE | |
| Pause On/Off | On | Seperate Series | 0 |
| Auto Subtract | 0 | Mask Phase | 0 |
| Auto SCIC | Off | Mask Pause | 0 |
| | | DIFFUSION | |
| | | Recon All Images | On |
| | | CONTRAST | |
| | | Contrast Yes/No | No |

Protocol: adult_spine_C SPINE PEDIATRIC SCOLIOSIS

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|----------------|-------------------------|--------------------------------------|---------------------------|--------------------------|
| Ax T1 FSE | PATIENT POSITION | | IMAGING PARAMETERS | |
| | Patient Entry | Head First | Imaging Mode | 2D |
| | Patient Position | Supine | Pulse Sequence | FSE-XL |
| | Coil Configuration | HNS by GE (PosteriorHead, Horseshoe) | Imaging Options | NPW, EDR, TRF, Fast, MRF |
| | Plane | OBLIQUE | SCAN RANGE | |
| | Series Description | Ax T1 FSE | FOV | 18.0 |
| | SCAN TIMING | | Slice Thickness | 3.0 |
| | Flip Angle | 160 | Slice Spacing | 1.0 |
| | TE | Min Full | ACQ TIMING | |
| | Number of Echoes | 1 | Freq | 288 |
| | TR | 500.0 | Phase | 224 |
| | Echo Train Length | 4 | Freq DIR | Swap |
| | Receiver Bandwidth | 20.83 | Fat Shift DIR | Normal |
| | IMAGE ENHANCE | | NEX | 2.00 |
| | Filter Choice | None | Phase FOV | 1.00 |
| | GATING/TRIGGER | | Auto Shim | Auto |
| | Auto Trigger Type | Off | Phase Correction | No |
| | FMRI | | USER CVS | |
| | PSD Trigger | Internal | User CV7 | 1.00 |
| | Slice Order | Interleaved | User CV15 | 2.00 |
| | View Order | Bottom/Up | User CV17 | 1.00 |
| | # of Repetitions REST | 0 | User CV22 | 1.00 |
| | # of Repetitions ACTIVE | 0 | MULTI-PHASE | |
| | SAT | | Seperate Series | 0 |
| | SAT Location | A | Mask Phase | 0 |
| Tag Type | None | Mask Pause | 0 | |
| TRICKS | | DIFFUSION | | |
| Pause On/Off | On | Recon All Images | On | |
| Auto Subtract | 0 | CONTRAST | | |
| Auto SCIC | 2 | Contrast Yes/No | No | |
| OTHERS | | | | |
| Protocol Notes | Prescribe anterior sat | | | |

Ax T1 FSE

Protocol: adult_spine_C SPINE PEDIATRIC SCOLIOSIS

| PATIENT POSITION | | IMAGING PARAMETERS | |
|-------------------------|--------------------------------------|--------------------|--------------------------|
| Patient Entry | Head First | Imaging Mode | 2D |
| Patient Position | Supine | Pulse Sequence | FSE-XL |
| Coil Configuration | HNS by GE (PosteriorHead, Horseshoe) | Imaging Options | NPW, EDR, TRF, Fast, MRF |
| Plane | OBLIQUE | SCAN RANGE | |
| Series Description | +C Ax T1 FSE F/S | FOV | 18.0 |
| SCAN TIMING | | Slice Thickness | 3.0 |
| Flip Angle | 160 | Slice Spacing | 1.0 |
| TE | Min Full | ACQ TIMING | |
| Number of Echoes | 1 | Freq | 288 |
| TR | 500.0 | Phase | 224 |
| Echo Train Length | 4 | Freq DIR | Swap |
| Receiver Bandwidth | 20.83 | Fat Shift DIR | Normal |
| IMAGE ENHANCE | | NEX | 2.00 |
| Filter Choice | None | Phase FOV | 1.00 |
| GATING/TRIGGER | | Auto Shim | Auto |
| Auto Trigger Type | Off | Phase Correction | No |
| FMRI | | USER CVS | |
| PSD Trigger | Internal | User CV7 | 1.00 |
| Slice Order | Interleaved | User CV15 | 2.00 |
| View Order | Bottom/Up | User CV17 | 1.00 |
| # of Repetitions REST | 0 | User CV19 | 1.00 |
| # of Repetitions ACTIVE | 0 | User CV22 | 1.00 |
| SAT | | MULTI-PHASE | |
| SAT Location | A | Seperate Series | 0 |
| Tag Type | None | Mask Phase | 0 |
| Fat/Water Saturation | Fat | Mask Pause | 0 |
| TRICKS | | DIFFUSION | |
| Pause On/Off | On | Recon All Images | On |
| Auto Subtract | 0 | CONTRAST | |
| Auto SCIC | 2 | Contrast Yes/No | Yes |
| OTHERS | | | |
| Protocol Notes | Prescribe anterior sat | | |

+C Ax T1 FSE F/S

+C Ax T1 FSE F/S

Protocol: adult_spine_C SPINE PEDIATRIC SCOLIOSIS

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|-------------------|-------------------------|--------------------------------------|---------------------------|--------------------------|-------------------|
| +C Sag T1 FSE F/S | PATIENT POSITION | | IMAGING PARAMETERS | | +C Sag T1 FSE F/S |
| | Patient Entry | Head First | Imaging Mode | 2D | |
| | Patient Position | Supine | Pulse Sequence | FSE-XL | |
| | Coil Configuration | HNS by GE (PosteriorHead, Horseshoe) | Imaging Options | NPW, EDR, TRF, Fast, MRF | |
| | SCAN TIMING | | SCAN RANGE | | |
| | Plane | OBLIQUE | FOV | 24.0 | |
| | Series Description | +C Sag T1 FSE F/S | Slice Thickness | 3.0 | |
| | Flip Angle | 160 | Slice Spacing | 0.5 | |
| | TE | Min Full | ACQ TIMING | | |
| | Number of Echoes | 1 | Freq | 320 | |
| | TR | 478.0 | Phase | 224 | |
| | Echo Train Length | 4 | Freq DIR | Swap | |
| | Receiver Bandwidth | 27.78 | Fat Shift DIR | Normal | |
| | IMAGE ENHANCE | | NEX | 3.00 | |
| | Filter Choice | None | # of Acq. Before Pause | 0 | |
| | GATING/TRIGGER | | Phase FOV | 1.00 | |
| | Auto Trigger Type | Off | Auto Shim | Auto | |
| | FMRI | | Phase Correction | No | |
| | PSD Trigger | Internal | USER CVS | | |
| | Slice Order | Interleaved | User CV15 | 2.00 | |
| | View Order | Bottom/Up | User CV19 | 1.00 | |
| | # of Repetitions REST | 0 | User CV21 | 2.00 | |
| | # of Repetitions ACTIVE | 0 | User CV22 | 1.00 | |
| | SAT | | MULTI-PHASE | | |
| | SAT Location | A | Seperate Series | 0 | |
| | SAT Location | S | Mask Phase | 0 | |
| | SAT Location | I | Mask Pause | 0 | |
| | Tag Type | None | DIFFUSION | | |
| | Fat/Water Saturation | Fat | Recon All Images | On | |
| | TRICKS | | CONTRAST | | |
| Pause On/Off | On | Contrast Yes/No | Yes | | |
| Auto Subtract | 0 | | | | |
| Auto SCIC | 2 | | | | |

Protocol: adult_spine_C SPINE PEDIATRIC SCOLIOSIS

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|-------------|-------------------------|--------------------------------------|---------------------------|---------------------------------|-------------|
| COR T2* GRE | PATIENT POSITION | | IMAGING PARAMETERS | | COR T2* GRE |
| | Patient Entry | Head First | Imaging Mode | 2D | |
| | Patient Position | Supine | Pulse Sequence | MERGE | |
| | Coil Configuration | HNS by GE (PosteriorHead, Horseshoe) | Imaging Options | FC, NPW, EDR, Fast, ZIP512, ARC | |
| | Plane | CORONAL | SCAN RANGE | | |
| | Series Description | COR T2* GRE | FOV | 18.0 | |
| | SCAN TIMING | | Slice Thickness | 3.0 | |
| | Flip Angle | 20 | Slice Spacing | 0.5 | |
| | Number of Echoes | 4 | ACQ TIMING | | |
| | TR | 427.1 | Freq | 256 | |
| | Receiver Bandwidth | 31.25 | Phase | 192 | |
| | IMAGE ENHANCE | | Freq DIR | S/I | |
| | Filter Choice | None | NEX | 2.00 | |
| | GATING/TRIGGER | | Phase FOV | 1.00 | |
| | Auto Trigger Type | Off | Auto Shim | Auto | |
| | FMRI | | Phase Correction | No | |
| | PSD Trigger | Internal | USER CVS | | |
| | Slice Order | Interleaved | TR Min | 400.0 | |
| | View Order | Bottom/Up | TR Max | 800.0 | |
| | # of Repetitions REST | 0 | MULTI-PHASE | | |
| | # of Repetitions ACTIVE | 0 | Seperate Series | 0 | |
| | SAT | | Mask Phase | 0 | |
| | Tag Type | None | Mask Pause | 0 | |
| | TRICKS | | DIFFUSION | | |
| | Pause On/Off | On | Recon All Images | On | |
| | Auto Subtract | 0 | CONTRAST | | |
| | Auto SCIC | Off | Contrast Yes/No | No | |