

Protocol: adult\_abdomen\_AbdomenRoutinewithMRCP\_20170815110643572\_15

| PATIENT POSITION   |                          | IMAGING PARAMETERS      |   |
|--------------------|--------------------------|-------------------------|---|
| Patient Entry      | <i>Feet First</i>        | Imaging Mode            | <i>2D</i>                               |
| Patient Position   | <i>Supine</i>            | Pulse Sequence          | <i>Spin Echo</i>                        |
| Coil Configuration | <i>GEM Body</i>          | Imaging Options         | <i>Seq, EDR, TRF, Fast, SS, FR, ARC</i> |
| Plane              | <i>3-PLANE</i>           |                         |   |
| Series Description | <i>3-Plane Localizer</i> |                         |   |
| SCAN TIMING        |                          | SCAN RANGE              |   |
| TE                 | <i>80.0</i>              | FOV                     | <i>48.0</i>                             |
| Number of Echoes   | <i>1</i>                 | Slice Thickness         | <i>8.0</i>                              |
| TR                 | <i>Minimum</i>           | Slice Spacing           | <i>3.0</i>                              |
| Receiver Bandwidth | <i>62.50</i>             |                         |   |
| IMAGE ENHANCE      |                          | ACQ TIMING              |   |
| Filter Choice      | <i>None</i>              | Freq                    | <i>352</i>                              |
|                    |                          | Phase                   | <i>192</i>                              |
|                    |                          | Freq DIR                | <i>Unswap</i>                           |
|                    |                          | # of Acq. Before Pause  | <i>0</i>                                |
|                    |                          | Phase FOV               | <i>1.00</i>                             |
|                    |                          | Auto Shim               | <i>Auto</i>                             |
|                    |                          | Phase Correction        | <i>No</i>                               |
| GATING/TRIGGER     |                          | FMRI                    |   |
| Auto Trigger Type  | <i>Off</i>               | PSD Trigger             | <i>Internal</i>                         |
|                    |                          | Slice Order             | <i>Interleaved</i>                      |
|                    |                          | View Order              | <i>Bottom/Up</i>                        |
|                    |                          | # of Repetitions REST   | <i>0</i>                                |
|                    |                          | # of Repetitions ACTIVE | <i>0</i>                                |
| MULTI-PHASE        |                          | SAT                     |   |
| Seperate Series    | <i>0</i>                 | Tag Type                | <i>None</i>                             |
| Mask Phase         | <i>0</i>                 |                         |   |
| Mask Pause         | <i>0</i>                 |                         |   |
| DIFFUSION          |                          | TRICKS                  |   |
| Recon All Images   | <i>On</i>                | Pause On/Off            | <i>On</i>                               |
|                    |                          | Auto Subtract           | <i>0</i>                                |
|                    |                          | Auto SCIC               | <i>Off</i>                              |
| CONTRAST           |                          |                         |   |
| Contrast Yes/No    | <i>No</i>                |                         |   |

3-Plane Localizer

3-Plane Localizer

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| PATIENT POSITION        |                | IMAGING PARAMETERS     |                    |
|-------------------------|----------------|------------------------|--------------------|
| Patient Entry           | Feet First     | Imaging Mode           | 2D                 |
| Patient Position        | Supine         | Pulse Sequence         | Spin Echo          |
| Coil Configuration      | GEM Body       | Imaging Options        | EDR, Fast, SS, ARC |
| Plane                   | AXIAL          | <b>SCAN RANGE</b>      |                    |
| Series Description      | Ax T2 SSFSE BH | FOV                    | 36.0               |
| <b>SCAN TIMING</b>      |                | Slice Thickness        | 6.0                |
| TE                      | 90.0           | Slice Spacing          | 0.0                |
| Number of Echoes        | 1              | <b>ACQ TIMING</b>      |                    |
| TR                      | Minimum        | Freq                   | 288                |
| Receiver Bandwidth      | 31.25          | Phase                  | 192                |
| <b>IMAGE ENHANCE</b>    |                | Freq DIR               | R/L                |
| Filter Choice           | None           | NEX                    | 1.00               |
| <b>GATING/TRIGGER</b>   |                | # of Acq. Before Pause | 0                  |
| Auto Trigger Type       | Off            | Phase FOV              | 0.80               |
| <b>FMRI</b>             |                | Auto Shim              | Auto               |
| PSD Trigger             | Internal       | Phase Correction       | No                 |
| View Order              | Bottom/Up      | <b>USER CVS</b>        |                    |
| # of Repetitions REST   | 0              | User CV1               | 1.00               |
| # of Repetitions ACTIVE | 0              | User CV2               | 240.00             |
| <b>SAT</b>              |                | User CV13              | 1.00               |
| Tag Type                | None           | User CV15              | 1.00               |
| <b>TRICKS</b>           |                | <b>MULTI-PHASE</b>     |                    |
| Pause On/Off            | On             | Seperate Series        | 0                  |
| Auto Subtract           | 0              | Mask Phase             | 0                  |
| Auto SCIC               | 2              | Mask Pause             | 0                  |
|                         |                | <b>DIFFUSION</b>       |                    |
|                         |                | Recon All Images       | On                 |
|                         |                | <b>CONTRAST</b>        |                    |
|                         |                | Contrast Yes/No        | No                 |

Ax T2 SSFSE BH

Ax T2 SSFSE BH

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| PATIENT POSITION        |                        | IMAGING PARAMETERS     |                    |
|-------------------------|------------------------|------------------------|--------------------|
| Patient Entry           | Feet First             | Imaging Mode           | 2D                 |
| Patient Position        | Supine                 | Pulse Sequence         | Spin Echo          |
| Coil Configuration      | GEM Body               | Imaging Options        | EDR, Fast, SS, ARC |
| Plane                   | AXIAL                  | <b>SCAN RANGE</b>      |                    |
| Series Description      | Ax T2 SSFSE BH Fat Sat | FOV                    | 36.0               |
| <b>SCAN TIMING</b>      |                        | Slice Thickness        | 6.0                |
| TE                      | 90.0                   | Slice Spacing          | 0.0                |
| Number of Echoes        | 1                      | <b>ACQ TIMING</b>      |                    |
| TR                      | Minimum                | Freq                   | 288                |
| Receiver Bandwidth      | 31.25                  | Phase                  | 192                |
| <b>IMAGE ENHANCE</b>    |                        | Freq DIR               | R/L                |
| Filter Choice           | None                   | NEX                    | 1.00               |
| <b>GATING/TRIGGER</b>   |                        | # of Acq. Before Pause | 0                  |
| Auto Trigger Type       | Off                    | Phase FOV              | 0.80               |
| <b>FMRI</b>             |                        | Auto Shim              | Auto               |
| PSD Trigger             | Internal               | Phase Correction       | No                 |
| View Order              | Bottom/Up              | <b>USER CVS</b>        |                    |
| # of Repetitions REST   | 0                      | User CV1               | 1.00               |
| # of Repetitions ACTIVE | 0                      | User CV2               | 240.00             |
| <b>SAT</b>              |                        | User CV13              | 1.00               |
| Tag Type                | None                   | User CV15              | 1.00               |
| Fat/Water Saturation    | Fat                    | <b>MULTI-PHASE</b>     |                    |
| <b>TRICKS</b>           |                        | Seperate Series        | 0                  |
| Pause On/Off            | On                     | Mask Phase             | 0                  |
| Auto Subtract           | 0                      | Mask Pause             | 0                  |
| Auto SCIC               | 2                      | <b>DIFFUSION</b>       |                    |
|                         |                        | Recon All Images       | On                 |
|                         |                        | <b>CONTRAST</b>        |                    |
|                         |                        | Contrast Yes/No        | No                 |

Ax T2 SSFSE BH Fat Sat

Ax T2 SSFSE BH Fat Sat

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| PATIENT POSITION      |                        | IMAGING PARAMETERS      |                               |
|-----------------------|------------------------|-------------------------|-------------------------------|
| Patient Entry         | <i>Feet First</i>      | Imaging Mode            | <i>2D</i>                     |
| Patient Position      | <i>Supine</i>          | Pulse Sequence          | <i>SPGR</i>                   |
| Coil Configuration    | <i>GEM Body</i>        | Imaging Options         | <i>EDR, Fast, ZIP512, ARC</i> |
| Plane                 | <i>AXIAL</i>           | <b>SCAN RANGE</b>       |                               |
| Series Description    | <i>Ax Dual Echo BH</i> | FOV                     | <i>36.0</i>                   |
| <b>SCAN TIMING</b>    |                        | Slice Thickness         | <i>6.0</i>                    |
| Flip Angle            | <i>80</i>              | Slice Spacing           | <i>0.0</i>                    |
| Number of Echoes      | <i>2</i>               | <b>ACQ TIMING</b>       |                               |
| TR                    | <i>180.0</i>           | Freq                    | <i>320</i>                    |
| <b>IMAGE ENHANCE</b>  |                        | Phase                   | <i>224</i>                    |
| Filter Choice         | <i>None</i>            | Freq DIR                | <i>R/L</i>                    |
| <b>GATING/TRIGGER</b> |                        | NEX                     | <i>1.00</i>                   |
| Auto Trigger Type     | <i>Off</i>             | # of Acq. Before Pause  | <i>1</i>                      |
| <b>MULTI-PHASE</b>    |                        | Phase FOV               | <i>0.80</i>                   |
| Seperate Series       | <i>0</i>               | Auto Shim               | <i>Auto</i>                   |
| Mask Phase            | <i>0</i>               | Phase Correction        | <i>No</i>                     |
| Mask Pause            | <i>0</i>               | <b>FMRI</b>             |                               |
| <b>DIFFUSION</b>      |                        | PSD Trigger             | <i>Internal</i>               |
| Recon All Images      | <i>On</i>              | View Order              | <i>Bottom/Up</i>              |
| <b>CONTRAST</b>       |                        | # of Repetitions REST   | <i>0</i>                      |
| Contrast Yes/No       | <i>No</i>              | # of Repetitions ACTIVE | <i>0</i>                      |
|                       |                        | <b>SAT</b>              |                               |
|                       |                        | Tag Type                | <i>None</i>                   |
|                       |                        | <b>TRICKS</b>           |                               |
|                       |                        | Pause On/Off            | <i>On</i>                     |
|                       |                        | Auto Subtract           | <i>0</i>                      |
|                       |                        | Auto SCIC               | <i>2</i>                      |

Ax Dual Echo BH

Ax Dual Echo BH

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| PATIENT POSITION      |                           | IMAGING PARAMETERS      |                            |
|-----------------------|---------------------------|-------------------------|----------------------------|
| Patient Entry         | <i>Feet First</i>         | Imaging Mode            | <i>2D</i>                  |
| Patient Position      | <i>Supine</i>             | Pulse Sequence          | <i>Fiesta</i>              |
| Coil Configuration    | <i>GEM Body</i>           | Imaging Options         | <i>Seq, EDR, Fast, ARC</i> |
| Plane                 | <i>AXIAL</i>              | <b>SCAN RANGE</b>       |                            |
| Series Description    | <i>Ax FIESTA ASPIR BH</i> | FOV                     | <i>36.0</i>                |
| <b>SCAN TIMING</b>    |                           | Slice Thickness         | <i>6.0</i>                 |
| Flip Angle            | <i>70</i>                 | Slice Spacing           | <i>0.0</i>                 |
| TE                    | <i>Minimum</i>            | <b>ACQ TIMING</b>       |                            |
| Number of Echoes      | <i>1</i>                  | Freq                    | <i>224</i>                 |
| Receiver Bandwidth    | <i>100.00</i>             | Phase                   | <i>320</i>                 |
| <b>IMAGE ENHANCE</b>  |                           | Freq DIR                | <i>R/L</i>                 |
| Filter Choice         | <i>None</i>               | NEX                     | <i>1.00</i>                |
| <b>GATING/TRIGGER</b> |                           | # of Acq. Before Pause  | <i>20</i>                  |
| Auto Trigger Type     | <i>Off</i>                | Phase FOV               | <i>0.80</i>                |
| <b>MULTI-PHASE</b>    |                           | Auto Shim               | <i>Auto</i>                |
| Seperate Series       | <i>0</i>                  | Phase Correction        | <i>No</i>                  |
| Mask Phase            | <i>0</i>                  | <b>FMRI</b>             |                            |
| Mask Pause            | <i>0</i>                  | PSD Trigger             | <i>Internal</i>            |
| <b>DIFFUSION</b>      |                           | View Order              | <i>Bottom/Up</i>           |
| Recon All Images      | <i>On</i>                 | # of Repetitions REST   | <i>0</i>                   |
| <b>CONTRAST</b>       |                           | # of Repetitions ACTIVE | <i>0</i>                   |
| Contrast Yes/No       | <i>No</i>                 | <b>SAT</b>              |                            |
|                       |                           | Tag Type                | <i>None</i>                |
|                       |                           | Fat/Water Saturation    | <i>Fat Special</i>         |
|                       |                           | <b>TRICKS</b>           |                            |
|                       |                           | Pause On/Off            | <i>On</i>                  |
|                       |                           | Auto Subtract           | <i>0</i>                   |
|                       |                           | Auto SCIC               | <i>Off</i>                 |

AX FIESTA ASPIR BH

AX FIESTA ASPIR BH

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| PATIENT POSITION        |                 | IMAGING PARAMETERS     |                         |
|-------------------------|-----------------|------------------------|-------------------------|
| Patient Entry           | Feet First      | Imaging Mode           | 2D                      |
| Patient Position        | Supine          | Pulse Sequence         | Spin Echo               |
| Coil Configuration      | GEM Body        | Imaging Options        | NPW, EDR, Fast, SS, ARC |
| Plane                   | CORONAL         | <b>SCAN RANGE</b>      |                         |
| Series Description      | Cor T2 SSFSE BH | FOV                    | 36.0                    |
| <b>SCAN TIMING</b>      |                 | Slice Thickness        | 6.0                     |
| TE                      | 90.0            | Slice Spacing          | 0.0                     |
| Number of Echoes        | 1               | <b>ACQ TIMING</b>      |                         |
| TR                      | Minimum         | Freq                   | 320                     |
| Receiver Bandwidth      | 62.50           | Phase                  | 224                     |
| <b>IMAGE ENHANCE</b>    |                 | Freq DIR               | S/I                     |
| Filter Choice           | None            | NEX                    | 1.00                    |
| <b>GATING/TRIGGER</b>   |                 | # of Acq. Before Pause | 0                       |
| Auto Trigger Type       | Off             | Phase FOV              | 1.00                    |
| <b>FMRI</b>             |                 | Auto Shim              | Auto                    |
| PSD Trigger             | Internal        | Phase Correction       | No                      |
| View Order              | Bottom/Up       | <b>USER CVS</b>        |                         |
| # of Repetitions REST   | 0               | User CV1               | 1.00                    |
| # of Repetitions ACTIVE | 0               | User CV2               | 240.00                  |
| <b>SAT</b>              |                 | User CV13              | 1.00                    |
| SAT Location            | R               | User CV15              | 1.00                    |
| SAT Location            | L               | <b>MULTI-PHASE</b>     |                         |
| Tag Type                | None            | Seperate Series        | 0                       |
| <b>TRICKS</b>           |                 | Mask Phase             | 0                       |
| Pause On/Off            | On              | Mask Pause             | 0                       |
| Auto Subtract           | 0               | <b>DIFFUSION</b>       |                         |
| Auto SCIC               | 2               | Recon All Images       | On                      |
|                         |                 | <b>CONTRAST</b>        |                         |
|                         |                 | Contrast Yes/No        | No                      |

Cor T2 SSFSE BH

Cor T2 SSFSE BH

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|                        |                         |                                |                           |                         |
|------------------------|-------------------------|--------------------------------|---------------------------|-------------------------|
| Ax DWI 3:1 BH B-50-700 | <b>PATIENT POSITION</b> |                                | <b>IMAGING PARAMETERS</b> |                         |
|                        | Patient Entry           | <i>Feet First</i>              | Imaging Mode              | <i>2D</i>               |
|                        | Patient Position        | <i>Supine</i>                  | Pulse Sequence            | <i>Spin Echo</i>        |
|                        | Coil Configuration      | <i>GEM Body</i>                | Imaging Options           | <i>EPI, DIFF, Asset</i> |
|                        | Plane                   | <i>AXIAL</i>                   | <b>SCAN RANGE</b>         |                         |
|                        | Series Description      | <i>Ax DWI 3:1 BH B-50-700</i>  | FOV                       | <i>40.0</i>             |
|                        | <b>SCAN TIMING</b>      |                                | Slice Thickness           | <i>8.0</i>              |
|                        | TE                      | <i>Minimum</i>                 | Slice Spacing             | <i>2.0</i>              |
|                        | Number of Echoes        | <i>1</i>                       | <b>ACQ TIMING</b>         |                         |
|                        | TR                      | <i>2806.0</i>                  | Freq                      | <i>80</i>               |
|                        | Number of Shots         | <i>1</i>                       | Phase                     | <i>128</i>              |
|                        | <b>IMAGE ENHANCE</b>    |                                | Freq DIR                  | <i>R/L</i>              |
|                        | Filter Choice           | <i>None</i>                    | Phase FOV                 | <i>1.00</i>             |
|                        | <b>GATING/TRIGGER</b>   |                                | Auto Shim                 | <i>Auto</i>             |
|                        | Auto Trigger Type       | <i>Off</i>                     | Phase Correction          | <i>Yes</i>              |
|                        | <b>FMRI</b>             |                                | <b>USER CVS</b>           |                         |
|                        | PSD Trigger             | <i>Internal</i>                | User CV0                  | <i>1.00</i>             |
|                        | View Order              | <i>Bottom/Up</i>               | User CV17                 | <i>1.00</i>             |
|                        | # of Repetitions REST   | <i>0</i>                       | User CV18                 | <i>1.00</i>             |
|                        | # of Repetitions ACTIVE | <i>0</i>                       | TR Min                    | <i>2000.0</i>           |
|                        | <b>SAT</b>              |                                | TR Max                    | <i>17000.0</i>          |
|                        | Tag Type                | <i>None</i>                    | <b>MULTI-PHASE</b>        |                         |
|                        | Fat/Water Saturation    | <i>Fat</i>                     | Seperate Series           | <i>0</i>                |
|                        | <b>TRICKS</b>           |                                | Mask Phase                | <i>0</i>                |
|                        | Pause On/Off            | <i>On</i>                      | Mask Pause                | <i>0</i>                |
| Auto Subtract          | <i>0</i>                | <b>DIFFUSION</b>               |                           |                         |
| Auto SCIC              | <i>2</i>                | Optimized TE                   | <i>Yes</i>                |                         |
|                        |                         | Diffusion Directions           | <i>All</i>                |                         |
|                        |                         | Number of Diffusion Directions | <i>3</i>                  |                         |
|                        |                         | Number of T2 Images            | <i>0</i>                  |                         |
|                        |                         | Dual Spin Echo                 | <i>Off</i>                |                         |
|                        |                         | Recon All Images               | <i>On</i>                 |                         |
|                        |                         | <b>CONTRAST</b>                |                           |                         |
|                        |                         | Contrast Yes/No                | <i>No</i>                 |                         |

Ax DWI 3:1 BH B-50-700

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| PATIENT POSITION        |                 | IMAGING PARAMETERS     |                         |
|-------------------------|-----------------|------------------------|-------------------------|
| Patient Entry           | Feet First      | Imaging Mode           | 2D                      |
| Patient Position        | Supine          | Pulse Sequence         | Spin Echo               |
| Coil Configuration      | GEM Body        | Imaging Options        | NPW, EDR, Fast, SS, ARC |
| Plane                   | SAGITTAL        | <b>SCAN RANGE</b>      |                         |
| Series Description      | Sag T2 SSFSE BH | FOV                    | 34.0                    |
| <b>SCAN TIMING</b>      |                 | Slice Thickness        | 6.0                     |
| TE                      | 90.0            | Slice Spacing          | 0.0                     |
| Number of Echoes        | 1               | <b>ACQ TIMING</b>      |                         |
| TR                      | Minimum         | Freq                   | 320                     |
| Receiver Bandwidth      | 62.50           | Phase                  | 224                     |
| <b>IMAGE ENHANCE</b>    |                 | Freq DIR               | S/I                     |
| Filter Choice           | None            | NEX                    | 1.00                    |
| <b>GATING/TRIGGER</b>   |                 | # of Acq. Before Pause | 11                      |
| Auto Trigger Type       | Off             | Phase FOV              | 0.80                    |
| <b>FMRI</b>             |                 | Auto Shim              | Auto                    |
| PSD Trigger             | Internal        | Phase Correction       | No                      |
| View Order              | Bottom/Up       | <b>USER CVS</b>        |                         |
| # of Repetitions REST   | 0               | User CV1               | 1.00                    |
| # of Repetitions ACTIVE | 0               | User CV2               | 240.00                  |
| <b>SAT</b>              |                 | User CV13              | 1.00                    |
| Tag Type                | None            | User CV15              | 1.00                    |
| <b>TRICKS</b>           |                 | <b>MULTI-PHASE</b>     |                         |
| Pause On/Off            | On              | Seperate Series        | 0                       |
| Auto Subtract           | 0               | Mask Phase             | 0                       |
| Auto SCIC               | 2               | Mask Pause             | 0                       |
|                         |                 | <b>DIFFUSION</b>       |                         |
|                         |                 | Recon All Images       | On                      |
|                         |                 | <b>CONTRAST</b>        |                         |
|                         |                 | Contrast Yes/No        | No                      |

Sag T2 SSFSE BH

Sag T2 SSFSE BH



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| PATIENT POSITION      |                           | IMAGING PARAMETERS      |                            |
|-----------------------|---------------------------|-------------------------|----------------------------|
| Patient Entry         | <i>Feet First</i>         | Imaging Mode            | <i>2D</i>                  |
| Patient Position      | <i>Supine</i>             | Pulse Sequence          | <i>Fiesta</i>              |
| Coil Configuration    | <i>GEM Body</i>           | Imaging Options         | <i>Seq, EDR, Fast, ARC</i> |
| Plane                 | <i>AXIAL</i>              | <b>SCAN RANGE</b>       |                            |
| Series Description    | <i>Ax FIESTA ASPIR BH</i> | FOV                     | <i>36.0</i>                |
| <b>SCAN TIMING</b>    |                           | Slice Thickness         | <i>6.0</i>                 |
| Flip Angle            | <i>70</i>                 | Slice Spacing           | <i>0.0</i>                 |
| TE                    | <i>Minimum</i>            | <b>ACQ TIMING</b>       |                            |
| Number of Echoes      | <i>1</i>                  | Freq                    | <i>224</i>                 |
| Receiver Bandwidth    | <i>100.00</i>             | Phase                   | <i>320</i>                 |
| <b>IMAGE ENHANCE</b>  |                           | Freq DIR                | <i>R/L</i>                 |
| Filter Choice         | <i>None</i>               | NEX                     | <i>1.00</i>                |
| <b>GATING/TRIGGER</b> |                           | # of Acq. Before Pause  | <i>20</i>                  |
| Auto Trigger Type     | <i>Off</i>                | Phase FOV               | <i>0.80</i>                |
| <b>MULTI-PHASE</b>    |                           | Auto Shim               | <i>Auto</i>                |
| Seperate Series       | <i>0</i>                  | Phase Correction        | <i>No</i>                  |
| Mask Phase            | <i>0</i>                  | <b>FMRI</b>             |                            |
| Mask Pause            | <i>0</i>                  | PSD Trigger             | <i>Internal</i>            |
| <b>DIFFUSION</b>      |                           | View Order              | <i>Bottom/Up</i>           |
| Recon All Images      | <i>On</i>                 | # of Repetitions REST   | <i>0</i>                   |
| <b>CONTRAST</b>       |                           | # of Repetitions ACTIVE | <i>0</i>                   |
| Contrast Yes/No       | <i>No</i>                 | <b>SAT</b>              |                            |
|                       |                           | Tag Type                | <i>None</i>                |
|                       |                           | Fat/Water Saturation    | <i>Fat Special</i>         |
|                       |                           | <b>TRICKS</b>           |                            |
|                       |                           | Pause On/Off            | <i>On</i>                  |
|                       |                           | Auto Subtract           | <i>0</i>                   |
|                       |                           | Auto SCIC               | <i>On</i>                  |

Ax FIESTA ASPIR BH

Ax FIESTA ASPIR BH

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|                       |                         |                              |                           |                                     |
|-----------------------|-------------------------|------------------------------|---------------------------|-------------------------------------|
| 3D Ax LAVA Mult Phase | <b>PATIENT POSITION</b> |                              | <b>IMAGING PARAMETERS</b> |                                     |
|                       | Patient Entry           | <i>Feet First</i>            | Imaging Mode              | <i>3D</i>                           |
|                       | Patient Position        | <i>Supine</i>                | Pulse Sequence            | <i>LAVA</i>                         |
|                       | Coil Configuration      | <i>GEM Body</i>              | Imaging Options           | <i>EDR, Fast, ZIP2, MPhVar, ARC</i> |
|                       | Plane                   | <i>AXIAL</i>                 | <b>SCAN RANGE</b>         |                                     |
|                       | Series Description      | <i>3D Ax LAVA Mult Phase</i> | FOV                       | <i>36.0</i>                         |
|                       | <b>SCAN TIMING</b>      |                              | Slice Thickness           | <i>6.0</i>                          |
|                       | Flip Angle              | <i>12</i>                    | Location per Slab         | <i>50</i>                           |
|                       | Number of Echoes        | <i>1</i>                     | Overlap Locations         | <i>0</i>                            |
|                       | TI                      | <i>7</i>                     | <b>ACQ TIMING</b>         |                                     |
|                       | Receiver Bandwidth      | <i>62.50</i>                 | Freq                      | <i>288</i>                          |
|                       | <b>IMAGE ENHANCE</b>    |                              | Phase                     | <i>192</i>                          |
|                       | Filter Choice           | <i>None</i>                  | Freq DIR                  | <i>R/L</i>                          |
|                       | <b>GATING/TRIGGER</b>   |                              | NEX                       | <i>1.00</i>                         |
|                       | Auto Trigger Type       | <i>Off</i>                   | Phase FOV                 | <i>0.80</i>                         |
|                       | <b>FMRI</b>             |                              | Auto Shim                 | <i>Auto</i>                         |
|                       | PSD Trigger             | <i>Internal</i>              | Phase Correction          | <i>No</i>                           |
|                       | View Order              | <i>Bottom/Up</i>             | <b>USER CVS</b>           |                                     |
|                       | # of Repetitions REST   | <i>0</i>                     | User CV6                  | <i>1.00</i>                         |
|                       | # of Repetitions ACTIVE | <i>0</i>                     | <b>MULTI-PHASE</b>        |                                     |
|                       | <b>SAT</b>              |                              | # of Phases               | <i>4</i>                            |
|                       | Tag Type                | <i>None</i>                  | Seperate Series           | <i>1</i>                            |
|                       | Fat/Water Saturation    | <i>Fat Special</i>           | Trigger Delay without AV  | <i>20</i>                           |
|                       | <b>TRICKS</b>           |                              | Mask Phase                | <i>1</i>                            |
|                       | Pause On/Off            | <i>On</i>                    | Mask Pause                | <i>1</i>                            |
| Auto Subtract         | <i>0</i>                | <b>DIFFUSION</b>             |                           |                                     |
| Auto SCIC             | <i>On</i>               | Recon All Images             | <i>On</i>                 |                                     |
|                       |                         | <b>CONTRAST</b>              |                           |                                     |
|                       |                         | Contrast Yes/No              | <i>No</i>                 |                                     |

3D Ax LAVA Mult Phase

Protocol: adult\_abdomen\_AbdomenRoutinewithMRCP\_20170815110643572\_15

|                |                         |                       |                           |  |
|----------------|-------------------------|-----------------------|---------------------------|--|
| 3D Cor LAVA BH | <b>PATIENT POSITION</b> |                       | <b>IMAGING PARAMETERS</b> |  |
|                | Patient Entry           | <i>Feet First</i>     | Imaging Mode              | <i>3D</i>                                |
|                | Patient Position        | <i>Supine</i>         | Pulse Sequence            | <i>LAVA</i>                              |
|                | Coil Configuration      | <i>GEM Body</i>       | Imaging Options           | <i>NPW, EDR, Fast, ZIP512, ZIP2, ARC</i> |
|                | Plane                   | <i>CORONAL</i>        | <b>SCAN RANGE</b>         |  |
|                | Series Description      | <i>3D Cor LAVA BH</i> | FOV                       | <i>35.0</i>                              |
|                | <b>SCAN TIMING</b>      |                       | Slice Thickness           | <i>5.0</i>                               |
|                | Flip Angle              | <i>12</i>             | Location per Slab         | <i>48</i>                                |
|                | Number of Echoes        | <i>1</i>              | Overlap Locations         | <i>0</i>                                 |
|                | TI                      | <i>7</i>              | <b>ACQ TIMING</b>         |  |
|                | Receiver Bandwidth      | <i>62.50</i>          | Freq                      | <i>256</i>                               |
|                | <b>IMAGE ENHANCE</b>    |                       | Phase                     | <i>160</i>                               |
|                | Filter Choice           | <i>None</i>           | Freq DIR                  | <i>S/I</i>                               |
|                | <b>GATING/TRIGGER</b>   |                       | NEX                       | <i>1.00</i>                              |
|                | Auto Trigger Type       | <i>Off</i>            | Auto Shim                 | <i>Auto</i>                              |
|                | <b>FMRI</b>             |                       | Phase Correction          | <i>No</i>                                |
|                | PSD Trigger             | <i>Internal</i>       | <b>USER CVS</b>           |  |
|                | View Order              | <i>Bottom/Up</i>      | User CV4                  | <i>4.10</i>                              |
|                | # of Repetitions REST   | <i>0</i>              | User CV6                  | <i>1.00</i>                              |
|                | # of Repetitions ACTIVE | <i>0</i>              | <b>MULTI-PHASE</b>        |  |
|                | <b>SAT</b>              |                       | Seperate Series           | <i>0</i>                                 |
|                | Tag Type                | <i>None</i>           | Trigger Delay without AV  | <i>4.1</i>                               |
|                | Fat/Water Saturation    | <i>Fat Special</i>    | Mask Phase                | <i>0</i>                                 |
|                | <b>TRICKS</b>           |                       | Mask Pause                | <i>0</i>                                 |
|                | Pause On/Off            | <i>On</i>             | <b>DIFFUSION</b>          |  |
| Auto Subtract  | <i>0</i>                | Recon All Images      | <i>On</i>                 |  |
| Auto SCIC      | <i>2</i>                | <b>CONTRAST</b>       |                           |  |
|                |                         | Contrast Yes/No       | <i>No</i>                 |  |

3D Cor LAVA BH

Protocol: adult\_abdomen\_AbdomenRoutinewithMRCP\_20170815110643572\_15

|                |                         |                       |                           |                                     |
|----------------|-------------------------|-----------------------|---------------------------|-------------------------------------|
| 3D Sag LAVA BH | <b>PATIENT POSITION</b> |                       | <b>IMAGING PARAMETERS</b> |                                     |
|                | Patient Entry           | <i>Feet First</i>     | Imaging Mode              | <i>3D</i>                           |
|                | Patient Position        | <i>Supine</i>         | Pulse Sequence            | <i>LAVA</i>                         |
|                | Coil Configuration      | <i>GEM Body</i>       | Imaging Options           | <i>EDR, Fast, ZIP512, ZIP2, ARC</i> |
|                | Plane                   | <i>SAGITTAL</i>       | <b>SCAN RANGE</b>         |                                     |
|                | Series Description      | <i>3D Sag LAVA BH</i> | FOV                       | <i>35.0</i>                         |
|                | <b>SCAN TIMING</b>      |                       | Slice Thickness           | <i>6.0</i>                          |
|                | Flip Angle              | <i>12</i>             | Location per Slab         | <i>48</i>                           |
|                | Number of Echoes        | <i>1</i>              | Overlap Locations         | <i>0</i>                            |
|                | TI                      | <i>7</i>              | <b>ACQ TIMING</b>         |                                     |
|                | Receiver Bandwidth      | <i>62.50</i>          | Freq                      | <i>320</i>                          |
|                | <b>IMAGE ENHANCE</b>    |                       | Phase                     | <i>192</i>                          |
|                | Filter Choice           | <i>None</i>           | Freq DIR                  | <i>S/I</i>                          |
|                | <b>GATING/TRIGGER</b>   |                       | NEX                       | <i>1.00</i>                         |
|                | Auto Trigger Type       | <i>Off</i>            | Phase FOV                 | <i>0.80</i>                         |
|                | <b>FMRI</b>             |                       | Auto Shim                 | <i>Auto</i>                         |
|                | PSD Trigger             | <i>Internal</i>       | Phase Correction          | <i>No</i>                           |
|                | View Order              | <i>Bottom/Up</i>      | <b>USER CVS</b>           |                                     |
|                | # of Repetitions REST   | <i>0</i>              | User CV4                  | <i>4.10</i>                         |
|                | # of Repetitions ACTIVE | <i>0</i>              | User CV6                  | <i>1.00</i>                         |
|                | <b>SAT</b>              |                       | <b>MULTI-PHASE</b>        |                                     |
|                | Tag Type                | <i>None</i>           | Seperate Series           | <i>0</i>                            |
|                | Fat/Water Saturation    | <i>Fat Special</i>    | Trigger Delay without AV  | <i>4.1</i>                          |
|                | <b>TRICKS</b>           |                       | Mask Phase                | <i>0</i>                            |
|                | Pause On/Off            | <i>On</i>             | Mask Pause                | <i>0</i>                            |
| Auto Subtract  | <i>0</i>                | <b>DIFFUSION</b>      |                           |                                     |
| Auto SCIC      | <i>2</i>                | Recon All Images      | <i>On</i>                 |                                     |
|                |                         | <b>CONTRAST</b>       |                           |                                     |
|                |                         | Contrast Yes/No       | <i>No</i>                 |                                     |

3D Sag LAVA BH

Protocol: adult\_abdomen\_AbdomenRoutinewithMRCP\_20170815110643572\_15

|                  |                         |                         |                           |                             |
|------------------|-------------------------|-------------------------|---------------------------|-----------------------------|
| 3D Ax LAVA 5 min | <b>PATIENT POSITION</b> |                         | <b>IMAGING PARAMETERS</b> |                             |
|                  | Patient Entry           | <i>Feet First</i>       | Imaging Mode              | <i>3D</i>                   |
|                  | Patient Position        | <i>Supine</i>           | Pulse Sequence            | <i>LAVA</i>                 |
|                  | Coil Configuration      | <i>GEM Body</i>         | Imaging Options           | <i>EDR, Fast, ZIP2, ARC</i> |
|                  | Plane                   | <i>AXIAL</i>            | <b>SCAN RANGE</b>         |                             |
|                  | Series Description      | <i>3D Ax LAVA 5 min</i> | FOV                       | <i>36.0</i>                 |
|                  | <b>SCAN TIMING</b>      |                         | Slice Thickness           | <i>6.0</i>                  |
|                  | Flip Angle              | <i>12</i>               | Location per Slab         | <i>50</i>                   |
|                  | Number of Echoes        | <i>1</i>                | Overlap Locations         | <i>0</i>                    |
|                  | TI                      | <i>7</i>                | <b>ACQ TIMING</b>         |                             |
|                  | Receiver Bandwidth      | <i>62.50</i>            | Freq                      | <i>288</i>                  |
|                  | <b>IMAGE ENHANCE</b>    |                         | Phase                     | <i>192</i>                  |
|                  | Filter Choice           | <i>None</i>             | Freq DIR                  | <i>R/L</i>                  |
|                  | <b>GATING/TRIGGER</b>   |                         | NEX                       | <i>1.00</i>                 |
|                  | Auto Trigger Type       | <i>Off</i>              | Phase FOV                 | <i>0.80</i>                 |
|                  | <b>FMRI</b>             |                         | Auto Shim                 | <i>Auto</i>                 |
|                  | PSD Trigger             | <i>Internal</i>         | Phase Correction          | <i>No</i>                   |
|                  | View Order              | <i>Bottom/Up</i>        | <b>USER CVS</b>           |                             |
|                  | # of Repetitions REST   | <i>0</i>                | User CV4                  | <i>4.10</i>                 |
|                  | # of Repetitions ACTIVE | <i>0</i>                | User CV6                  | <i>1.00</i>                 |
|                  | <b>SAT</b>              |                         | <b>MULTI-PHASE</b>        |                             |
|                  | Tag Type                | <i>None</i>             | Seperate Series           | <i>0</i>                    |
|                  | Fat/Water Saturation    | <i>Fat Special</i>      | Trigger Delay without AV  | <i>4.1</i>                  |
|                  | <b>TRICKS</b>           |                         | Mask Phase                | <i>0</i>                    |
| Pause On/Off     | <i>On</i>               | Mask Pause              | <i>0</i>                  |                             |
| Auto Subtract    | <i>0</i>                | <b>DIFFUSION</b>        |                           |                             |
| Auto SCIC        | <i>On</i>               | Recon All Images        | <i>On</i>                 |                             |
|                  |                         | <b>CONTRAST</b>         |                           |                             |
|                  |                         | Contrast Yes/No         | <i>No</i>                 |                             |

3D Ax LAVA 5 min

Protocol: adult\_abdomen\_AbdomenRoutinewithMRCP\_20170815110643572\_15

|                          |                         |                                 |                           |                                     |
|--------------------------|-------------------------|---------------------------------|---------------------------|-------------------------------------|
| 3D Ax LAVA Eovist 10 min | <b>PATIENT POSITION</b> |                                 | <b>IMAGING PARAMETERS</b> |                                     |
|                          | Patient Entry           | <i>Feet First</i>               | Imaging Mode              | <i>3D</i>                           |
|                          | Patient Position        | <i>Supine</i>                   | Pulse Sequence            | <i>LAVA</i>                         |
|                          | Coil Configuration      | <i>GEM Body</i>                 | Imaging Options           | <i>EDR, Fast, ZIP2, MPhVar, ARC</i> |
|                          | Plane                   | <i>AXIAL</i>                    | <b>SCAN RANGE</b>         |                                     |
|                          | Series Description      | <i>3D Ax LAVA Eovist 10 min</i> | FOV                       | <i>36.0</i>                         |
|                          | <b>SCAN TIMING</b>      |                                 | Slice Thickness           | <i>6.0</i>                          |
|                          | Flip Angle              | <i>12</i>                       | Location per Slab         | <i>50</i>                           |
|                          | Number of Echoes        | <i>1</i>                        | Overlap Locations         | <i>0</i>                            |
|                          | TI                      | <i>7</i>                        | <b>ACQ TIMING</b>         |                                     |
|                          | Receiver Bandwidth      | <i>62.50</i>                    | Freq                      | <i>288</i>                          |
|                          | <b>IMAGE ENHANCE</b>    |                                 | Phase                     | <i>192</i>                          |
|                          | Filter Choice           | <i>None</i>                     | Freq DIR                  | <i>R/L</i>                          |
|                          | <b>GATING/TRIGGER</b>   |                                 | NEX                       | <i>1.00</i>                         |
|                          | Auto Trigger Type       | <i>Off</i>                      | Phase FOV                 | <i>0.80</i>                         |
|                          | <b>FMRI</b>             |                                 | Auto Shim                 | <i>Auto</i>                         |
|                          | PSD Trigger             | <i>Internal</i>                 | Phase Correction          | <i>No</i>                           |
|                          | View Order              | <i>Bottom/Up</i>                | <b>USER CVS</b>           |                                     |
|                          | # of Repetitions REST   | <i>0</i>                        | User CV6                  | <i>1.00</i>                         |
|                          | # of Repetitions ACTIVE | <i>0</i>                        | <b>MULTI-PHASE</b>        |                                     |
|                          | <b>SAT</b>              |                                 | # of Phases               | <i>4</i>                            |
|                          | Tag Type                | <i>None</i>                     | Seperate Series           | <i>1</i>                            |
|                          | Fat/Water Saturation    | <i>Fat Special</i>              | Trigger Delay without AV  | <i>20</i>                           |
|                          | <b>TRICKS</b>           |                                 | Mask Phase                | <i>1</i>                            |
|                          | Pause On/Off            | <i>On</i>                       | Mask Pause                | <i>1</i>                            |
| Auto Subtract            | <i>0</i>                | <b>DIFFUSION</b>                |                           |                                     |
| Auto SCIC                | <i>On</i>               | Recon All Images                | <i>On</i>                 |                                     |
|                          |                         | <b>CONTRAST</b>                 |                           |                                     |
|                          |                         | Contrast Yes/No                 | <i>No</i>                 |                                     |

3D Ax LAVA Eovist 10 min

Protocol: adult\_abdomen\_AbdomenRoutinewithMRCP\_20170815110643572\_15

|                |                         |                       |                           |   |
|----------------|-------------------------|-----------------------|---------------------------|---|
| 3D Cor MRCP BH | <b>PATIENT POSITION</b> |                       | <b>IMAGING PARAMETERS</b> |   |
|                | Patient Entry           | <i>Feet First</i>     | Imaging Mode              | <i>3D</i>                                       |
|                | Patient Position        | <i>Supine</i>         | Pulse Sequence            | <i>FRFSE-XL</i>                                 |
|                | Coil Configuration      | <i>GEM Body</i>       | Imaging Options           | <i>EDR, Fast, ZIP512, ZIP2, Asses, FR, MRCP</i> |
|                | Plane                   | <i>OBLIQUE</i>        | <b>SCAN RANGE</b>         |   |
|                | Series Description      | <i>3D Cor MRCP BH</i> | FOV                       | <i>34.0</i>                                     |
|                | <b>SCAN TIMING</b>      |                       | Slice Thickness           | <i>4.0</i>                                      |
|                | TE                      | <i>750.0</i>          | Location per Slab         | <i>20</i>                                       |
|                | Number of Echoes        | <i>1</i>              | Overlap Locations         | <i>0</i>  |
|                | TR                      | <i>1907.0</i>         | <b>ACQ TIMING</b>         |   |
|                | Echo Train Length       | <i>160</i>            | Freq                      | <i>256</i>                                      |
|                | Receiver Bandwidth      | <i>31.25</i>          | Phase                     | <i>256</i>                                      |
|                | <b>IMAGE ENHANCE</b>    |                       | Freq DIR                  | <i>S/I</i>                                      |
|                | Filter Choice           | <i>None</i>           | NEX                       | <i>1.00</i>                                     |
|                | <b>GATING/TRIGGER</b>   |                       | Phase FOV                 | <i>1.00</i>                                     |
|                | Auto Trigger Type       | <i>Off</i>            | Auto Shim                 | <i>Auto</i>                                     |
|                | <b>MULTI-PHASE</b>      |                       | Phase Correction          | <i>No</i>                                       |
|                | Seperate Series         | <i>0</i>              | <b>FMRI</b>               |   |
|                | Mask Phase              | <i>0</i>              | PSD Trigger               | <i>Internal</i>                                 |
|                | Mask Pause              | <i>0</i>              | View Order                | <i>Bottom/Up</i>                                |
|                | <b>DIFFUSION</b>        |                       | # of Repetitions REST     | <i>0</i>  |
|                | Recon All Images        | <i>On</i>             | # of Repetitions ACTIVE   | <i>0</i>  |
|                | <b>CONTRAST</b>         |                       | <b>SAT</b>                |   |
|                | Contrast Yes/No         | <i>No</i>             | Tag Type                  | <i>None</i>                                     |
|                |                         |                       | Fat/Water Saturation      | <i>Fat</i>                                      |
|                |                         | <b>TRICKS</b>         |                           |   |
|                |                         | Pause On/Off          | <i>On</i>                 |   |
|                |                         | Auto Subtract         | <i>0</i>                  |   |
|                |                         | Auto SCIC             | <i>2</i>                  |   |

3D Cor MRCP BH

Protocol: adult\_abdomen\_AbdomenRoutinewithMRCP\_20170815110643572\_15

| PATIENT POSITION      |                          | IMAGING PARAMETERS      |   |
|-----------------------|--------------------------|-------------------------|---|
| Patient Entry         | <i>Feet First</i>        | Imaging Mode            | <i>2D</i>                               |
| Patient Position      | <i>Supine</i>            | Pulse Sequence          | <i>Spin Echo</i>                        |
| Coil Configuration    | <i>GEM Body</i>          | Imaging Options         | <i>Seq, EDR, TRF, Fast, SS, FR, ARC</i> |
| Plane                 | <i>3-PLANE</i>           | <b>SCAN RANGE</b>       |   |
| Series Description    | <i>3-Plane Localizer</i> | FOV                     | <i>48.0</i>                             |
| <b>SCAN TIMING</b>    |                          | Slice Thickness         | <i>8.0</i>                              |
| TE                    | <i>80.0</i>              | Slice Spacing           | <i>3.0</i>                              |
| Number of Echoes      | <i>1</i>                 | <b>ACQ TIMING</b>       |   |
| TR                    | <i>Minimum</i>           | Freq                    | <i>352</i>                              |
| Receiver Bandwidth    | <i>62.50</i>             | Phase                   | <i>192</i>                              |
| <b>IMAGE ENHANCE</b>  |                          | Freq DIR                | <i>Unswap</i>                           |
| Filter Choice         | <i>None</i>              | # of Acq. Before Pause  | <i>0</i>                                |
| <b>GATING/TRIGGER</b> |                          | Phase FOV               | <i>1.00</i>                             |
| Auto Trigger Type     | <i>Off</i>               | Auto Shim               | <i>Auto</i>                             |
| <b>MULTI-PHASE</b>    |                          | Phase Correction        | <i>No</i>                               |
| Seperate Series       | <i>0</i>                 | <b>FMRI</b>             |   |
| Mask Phase            | <i>0</i>                 | PSD Trigger             | <i>Internal</i>                         |
| Mask Pause            | <i>0</i>                 | View Order              | <i>Bottom/Up</i>                        |
| <b>DIFFUSION</b>      |                          | # of Repetitions REST   | <i>0</i>                                |
| Recon All Images      | <i>On</i>                | # of Repetitions ACTIVE | <i>0</i>                                |
| <b>CONTRAST</b>       |                          | <b>SAT</b>              |   |
| Contrast Yes/No       | <i>No</i>                | Tag Type                | <i>None</i>                             |
|                       |                          | <b>TRICKS</b>           |   |
|                       |                          | Pause On/Off            | <i>On</i>                               |
|                       |                          | Auto Subtract           | <i>0</i>                                |
|                       |                          | Auto SCIC               | <i>Off</i>                              |



Protocol: adult\_abdomen\_AbdomenRoutinewithMRCP\_20170815110643572\_15

| PATIENT POSITION        |                      | IMAGING PARAMETERS     |                      |
|-------------------------|----------------------|------------------------|----------------------|
| Patient Entry           | Feet First           | Imaging Mode           | 2D                   |
| Patient Position        | Supine               | Pulse Sequence         | Spin Echo            |
| Coil Configuration      | GEM Body             | Imaging Options        | EDR, Fast, SS, Asset |
| Plane                   | OBLIQUE              | <b>SCAN RANGE</b>      |                      |
| Series Description      | Ax T2 SSFSE Thick BH | FOV                    | 28.0                 |
| <b>SCAN TIMING</b>      |                      | Slice Thickness        | 15.0                 |
| TE                      | 1000.0               | Slice Spacing          | 0.0                  |
| Number of Echoes        | 1                    | <b>ACQ TIMING</b>      |                      |
| TR                      | Minimum              | Freq                   | 288                  |
| Receiver Bandwidth      | 41.67                | Phase                  | 256                  |
| <b>IMAGE ENHANCE</b>    |                      | Freq DIR               | R/L                  |
| Filter Choice           | None                 | NEX                    | 1.00                 |
| <b>GATING/TRIGGER</b>   |                      | # of Acq. Before Pause | 0                    |
| Auto Trigger Type       | Off                  | Phase FOV              | 1.00                 |
| <b>FMRI</b>             |                      | Auto Shim              | Auto                 |
| PSD Trigger             | Internal             | Phase Correction       | No                   |
| View Order              | Bottom/Up            | <b>USER CVS</b>        |                      |
| # of Repetitions REST   | 0                    | User CV1               | 1.00                 |
| # of Repetitions ACTIVE | 0                    | User CV2               | 264.00               |
| <b>SAT</b>              |                      | User CV13              | 1.00                 |
| Tag Type                | None                 | <b>MULTI-PHASE</b>     |                      |
| Fat/Water Saturation    | Fat                  | Seperate Series        | 0                    |
| <b>TRICKS</b>           |                      | Mask Phase             | 0                    |
| Pause On/Off            | On                   | Mask Pause             | 0                    |
| Auto Subtract           | 0                    | <b>DIFFUSION</b>       |                      |
| Auto SCIC               | 2                    | Recon All Images       | On                   |
|                         |                      | <b>CONTRAST</b>        |                      |
|                         |                      | Contrast Yes/No        | No                   |

Ax T2 SSFSE Thick BH

Ax T2 SSFSE Thick BH

Protocol: adult\_abdomen\_AbdomenRoutinewithMRCP\_20170815110643572\_15

|                                |                         |                                       |                           |                             |
|--------------------------------|-------------------------|---------------------------------------|---------------------------|-----------------------------|
| Radial T2 SSFSE Thick ASPIR BH | <b>PATIENT POSITION</b> |                                       | <b>IMAGING PARAMETERS</b> |                             |
|                                | Patient Entry           | <i>Feet First</i>                     | Imaging Mode              | <i>2D</i>                   |
|                                | Patient Position        | <i>Supine</i>                         | Pulse Sequence            | <i>Spin Echo</i>            |
|                                | Coil Configuration      | <i>GEM Body</i>                       | Imaging Options           | <i>EDR, Fast, SS, Asset</i> |
|                                | Plane                   | <i>OBLIQUE</i>                        | <b>SCAN RANGE</b>         |                             |
|                                | Series Description      | <i>Radial T2 SSFSE Thick ASPIR BH</i> | FOV                       | <i>28.0</i>                 |
|                                | <b>SCAN TIMING</b>      |                                       | Slice Thickness           | <i>40.0</i>                 |
|                                | TE                      | <i>1000.0</i>                         | Slice Spacing             | <i>0.0</i>                  |
|                                | Number of Echoes        | <i>1</i>                              | <b>ACQ TIMING</b>         |                             |
|                                | TR                      | <i>Minimum</i>                        | Freq                      | <i>288</i>                  |
|                                | Receiver Bandwidth      | <i>41.67</i>                          | Phase                     | <i>288</i>                  |
|                                | <b>IMAGE ENHANCE</b>    |                                       | Freq DIR                  | <i>S/I</i>                  |
|                                | Filter Choice           | <i>None</i>                           | NEX                       | <i>1.00</i>                 |
|                                | <b>GATING/TRIGGER</b>   |                                       | # of Acq. Before Pause    | <i>1</i>                    |
|                                | Auto Trigger Type       | <i>Off</i>                            | Phase FOV                 | <i>1.00</i>                 |
|                                | <b>FMRI</b>             |                                       | Auto Shim                 | <i>Auto</i>                 |
|                                | PSD Trigger             | <i>Internal</i>                       | Phase Correction          | <i>No</i>                   |
|                                | View Order              | <i>Bottom/Up</i>                      | <b>USER CVS</b>           |                             |
|                                | # of Repetitions REST   | <i>0</i>                              | User CV1                  | <i>1.00</i>                 |
|                                | # of Repetitions ACTIVE | <i>0</i>                              | User CV2                  | <i>264.00</i>               |
|                                | <b>SAT</b>              |                                       | User CV13                 | <i>1.00</i>                 |
|                                | Tag Type                | <i>None</i>                           | <b>MULTI-PHASE</b>        |                             |
|                                | Fat/Water Saturation    | <i>Fat</i>                            | Seperate Series           | <i>0</i>                    |
|                                | <b>TRICKS</b>           |                                       | Mask Phase                | <i>0</i>                    |
|                                | Pause On/Off            | <i>On</i>                             | Mask Pause                | <i>0</i>                    |
| Auto Subtract                  | <i>0</i>                | <b>DIFFUSION</b>                      |                           |                             |
| Auto SCIC                      | <i>2</i>                | Recon All Images                      | <i>On</i>                 |                             |
|                                |                         | <b>CONTRAST</b>                       |                           |                             |
|                                |                         | Contrast Yes/No                       | <i>No</i>                 |                             |

Radial T2 SSFSE Thick ASPIR BH

Protocol: adult\_abdomen\_AbdomenRoutinewithMRCP\_20170815110643572\_15

|                                |                         |                                       |                           |                             |
|--------------------------------|-------------------------|---------------------------------------|---------------------------|-----------------------------|
| Radial T2 SSFSE Thick ASPIR BH | <b>PATIENT POSITION</b> |                                       | <b>IMAGING PARAMETERS</b> |                             |
|                                | Patient Entry           | <i>Feet First</i>                     | Imaging Mode              | <i>2D</i>                   |
|                                | Patient Position        | <i>Supine</i>                         | Pulse Sequence            | <i>Spin Echo</i>            |
|                                | Coil Configuration      | <i>GEM Body</i>                       | Imaging Options           | <i>EDR, Fast, SS, Asset</i> |
|                                | Plane                   | <i>OBLIQUE</i>                        | <b>SCAN RANGE</b>         |                             |
|                                | Series Description      | <i>Radial T2 SSFSE Thick ASPIR BH</i> | FOV                       | <i>28.0</i>                 |
|                                | <b>SCAN TIMING</b>      |                                       | Slice Thickness           | <i>40.0</i>                 |
|                                | TE                      | <i>1000.0</i>                         | Slice Spacing             | <i>0.0</i>                  |
|                                | Number of Echoes        | <i>1</i>                              | <b>ACQ TIMING</b>         |                             |
|                                | TR                      | <i>Minimum</i>                        | Freq                      | <i>288</i>                  |
|                                | Receiver Bandwidth      | <i>41.67</i>                          | Phase                     | <i>288</i>                  |
|                                | <b>IMAGE ENHANCE</b>    |                                       | Freq DIR                  | <i>S/I</i>                  |
|                                | Filter Choice           | <i>None</i>                           | NEX                       | <i>1.00</i>                 |
|                                | <b>GATING/TRIGGER</b>   |                                       | # of Acq. Before Pause    | <i>1</i>                    |
|                                | Auto Trigger Type       | <i>Off</i>                            | Phase FOV                 | <i>1.00</i>                 |
|                                | <b>FMRI</b>             |                                       | Auto Shim                 | <i>Auto</i>                 |
|                                | PSD Trigger             | <i>Internal</i>                       | Phase Correction          | <i>No</i>                   |
|                                | View Order              | <i>Bottom/Up</i>                      | <b>USER CVS</b>           |                             |
|                                | # of Repetitions REST   | <i>0</i>                              | User CV1                  | <i>1.00</i>                 |
|                                | # of Repetitions ACTIVE | <i>0</i>                              | User CV2                  | <i>264.00</i>               |
|                                | <b>SAT</b>              |                                       | User CV13                 | <i>1.00</i>                 |
|                                | Tag Type                | <i>None</i>                           | <b>MULTI-PHASE</b>        |                             |
|                                | Fat/Water Saturation    | <i>Fat</i>                            | Seperate Series           | <i>0</i>                    |
|                                | <b>TRICKS</b>           |                                       | Mask Phase                | <i>0</i>                    |
|                                | Pause On/Off            | <i>On</i>                             | Mask Pause                | <i>0</i>                    |
|                                | Auto Subtract           | <i>0</i>                              | <b>DIFFUSION</b>          |                             |
|                                | Auto SCIC               | <i>2</i>                              | Recon All Images          | <i>On</i>                   |
|                                |                         |                                       | <b>CONTRAST</b>           |                             |
|                                |                         | Contrast Yes/No                       | <i>No</i>                 |                             |

Radial T2 SSFSE Thick ASPIR BH