

## MSK-THR HIP NEW

Protocol: adult\_abdomen\_BOD - MRCP 2020 ARDL

3 plane localiser - 3 plane localiser

| IMAGING PARAMETERS      |                         |
|-------------------------|-------------------------|
| Imaging Mode            | 2D                      |
| Pulse Sequence          | Spin Echo               |
| Imaging Options         | Seq, EDR, Fast, SS, ARC |
| Phase                   | 2.00                    |
| SCAN RANGE              |                         |
| FOV                     | 48.0                    |
| Slice Thickness         | 10.00                   |
| Slice Spacing           | 0.0                     |
| Overlap Locations       | 0                       |
| ACQ TIMING              |                         |
| Freq                    | 352                     |
| Phase                   | 192                     |
| Freq DIR                | Unswap                  |
| # of Acq. Before Pause  | 0                       |
| Phase FOV               | 1.00                    |
| Auto Shim               | Auto                    |
| Phase Correction        | No                      |
| RF Drive Mode           | Single                  |
| Excitation Mode         | Selective               |
| FMRI                    |                         |
| PSD Trigger             | Internal                |
| 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                     |

| SCAN TIMING          |         |
|----------------------|---------|
| TE                   | 80.0    |
| Number of Echoes     | 1       |
| TR                   | Minimum |
| Receiver Bandwidth   | 62.50   |
| IMAGE ENHANCE        |         |
| Filter Choice        | None    |
| USER CVS             |         |
| User CV1             | 1.00    |
| User CV2             | 240.00  |
| User CV13            | 1.00    |
| User CV39            | 1.00    |
| User CV Mask2        | 256     |
| MULTI-PHASE          |         |
| Seperate Series      | 0       |
| Mask Phase           | 0       |
| Mask Pause           | 0       |
| Preserve             | 0       |
| DIFFUSION            |         |
| Recon All Images     | On      |
| # Synthetic b-values | 1       |
| Synthetic b-value    | 1000.0; |
| CONTRAST             |         |
| Contrast Yes/No      | No      |

3 plane localiser - 3 plane localiser

MSK-THR HIP NEW

Protocol: adult\_abdomen\_BOD - MRCP 2020 ARDL

|   |                           |                         |                      |         |
|---|---------------------------|-------------------------|----------------------|---------|
| ARDL H Cor SSFSE 3mm TE 60 ARDLHi - ARDL H Cor SSFSE 3mm TE 60 ARDLHi | <b>IMAGING PARAMETERS</b> |                         | <b>SCAN TIMING</b>   |         |
|   | Imaging Mode              | 2D                      | TE                   | 62.0    |
|   | Pulse Sequence            | Spin Echo               | Number of Echoes     | 1       |
|   | Imaging Options           | EDR, TRF, Fast, SS, ARC | TR                   | Minimum |
|   | Phase                     | 2.00                    | Receiver Bandwidth   | 83.33   |
|   | <b>SCAN RANGE</b>         |                         | <b>IMAGE ENHANCE</b> |         |
|   | FOV                       | 40.0                    | Filter Choice        | None    |
|   | Slice Thickness           | 3.00                    | <b>USER CVS</b>      |         |
|   | Slice Spacing             | 0.3                     | User CV1             | 1.00    |
|   | Overlap Locations         | 0                       | User CV39            | 1.00    |
|   | Number of Slices          | 50                      | User CV Mask2        | 256     |
|   | <b>ACQ TIMING</b>         |                         | <b>MULTI-PHASE</b>   |         |
|   | Freq                      | 288                     | Seperate Series      | 0       |
|   | Phase                     | 224                     | Mask Phase           | 0       |
|   | Freq DIR                  | S/I                     | Mask Pause           | 0       |
|   | NEX                       | 1.00                    | Preserve             | 0       |
|   | # of Acq. Before Pause    | 25                      | <b>DIFFUSION</b>     |         |
|   | Phase FOV                 | 1.00                    | Recon All Images     | On      |
|   | Auto Shim                 | Auto                    | # Synthetic b-values | 1       |
|   | Phase Correction          | No                      | Synthetic b-value    | 1000.0; |
|   | RF Drive Mode             | Single                  | <b>CONTRAST</b>      |         |
|   | Excitation Mode           | Selective               | Contrast Yes/No      | No      |
| <b>FMRI</b>   |                           |                         |                      |         |
| PSD Trigger   |                           | Internal                |                      |         |
| View Order  |                           | Bottom/Up               |                      |         |
| # of Repetitions REST   |                           | 0                       |                      |         |
| # of Repetitions ACTIVE   |                           | 0                       |                      |         |
| <b>SAT</b>  |                           |                         |                      |         |
| Tag Type  |                           | None                    |                      |         |
| <b>TRICKS</b>   |                           |                         |                      |         |
| Pause On/Off  |                           | On                      |                      |         |
| Auto Subtract   |                           | 0                       |                      |         |
| Auto SCIC   |                           | 2                       |                      |         |

ARDL H Cor SSFSE 3mm TE 60 ARDLHi - ARDL H Cor SSFSE 3mm TE 60 ARDLHi

## MSK-THR HIP NEW

Protocol: adult\_abdomen\_BOD - MRCP 2020 ARDL

## IMAGING PARAMETERS

|                 |                    |
|-----------------|--------------------|
| Imaging Mode    | 2D                 |
| Pulse Sequence  | Spin Echo          |
| Imaging Options | EDR, Fast, SS, ARC |
| Phase           | 2.00               |

## SCAN RANGE

|                   |      |
|-------------------|------|
| FOV               | 42.0 |
| Slice Thickness   | 5.00 |
| Slice Spacing     | 0.3  |
| Overlap Locations | 0    |
| Number of Slices  | 37   |

## ACQ TIMING

|                        |           |
|------------------------|-----------|
| Freq                   | 260       |
| Phase                  | 224       |
| Freq DIR               | R/L       |
| NEX                    | 1.00      |
| # of Acq. Before Pause | 16        |
| Phase FOV              | 0.80      |
| Auto Shim              | Auto      |
| Phase Correction       | No        |
| RF Drive Mode          | Single    |
| Excitation Mode        | Selective |

## FMRI

|                         |           |
|-------------------------|-----------|
| PSD Trigger             | Internal  |
| 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     | 2  |

## SCAN TIMING

|                    |         |
|--------------------|---------|
| TE                 | 162.0   |
| Number of Echoes   | 1       |
| TR                 | Minimum |
| Receiver Bandwidth | 90.91   |

## IMAGE ENHANCE

|               |      |
|---------------|------|
| Filter Choice | None |
|---------------|------|

## USER CVS

|               |        |
|---------------|--------|
| User CV1      | 1.00   |
| User CV2      | 240.00 |
| User CV13     | 1.00   |
| User CV39     | 1.00   |
| User CV Mask2 | 256    |

## MULTI-PHASE

|                 |   |
|-----------------|---|
| Seperate Series | 0 |
| Mask Phase      | 0 |
| Mask Pause      | 0 |
| Preserve        | 0 |

## DIFFUSION

|                      |         |
|----------------------|---------|
| Recon All Images     | On      |
| # Synthetic b-values | 1       |
| Synthetic b-value    | 1000.0; |

## CONTRAST

|                 |    |
|-----------------|----|
| Contrast Yes/No | No |
|-----------------|----|

ADRL Ax SSFSE TE 160 5mm ARDL med - ADRL Ax SSFSE TE 160 5mm ARDL med

ADRL Ax SSFSE TE 160 5mm ARDL med - ADRL Ax SSFSE TE 160 5mm ARDL med

## MSK-THR HIP NEW

Protocol: adult\_abdomen\_BOD - MRCP 2020 ARDL

**IMAGING PARAMETERS**

Imaging Mode *2D*  
Pulse Sequence *Fiesta*  
Imaging Options *Seq, EDR, Fast, ZIP512*

**SCAN RANGE**

FOV *38.0*  
Slice Thickness *5.00*  
Slice Spacing *0.0*  
Overlap Locations *0*  
Number of Slices *41*

**ACQ TIMING**

Freq *192*  
Phase *384*  
Freq DIR *R/L*  
NEX *1.00*  
# of Acq. Before Pause *11*  
Phase FOV *0.80*  
Auto Shim *Auto*  
Phase Correction *No*  
RF Drive Mode *Single*  
Excitation Mode *Selective*

**USER CVS**

User CV20 *1.00*  
User CV Mask2 *0*

**MULTI-PHASE**

Seperate Series *0*  
Mask Phase *0*  
Mask Pause *0*  
Preserve *0*

**DIFFUSION**

Recon All Images *On*  
# Synthetic b-values *1*  
Synthetic b-value *1000.0;*

**CONTRAST**

Contrast Yes/No *No*

**SCAN TIMING**

Flip Angle *45*  
TE *Min Full*  
Number of Echoes *1*  
Receiver Bandwidth *125.00*

**IMAGE ENHANCE**

Filter Choice *None*

**GATING/TRIGGER**

Pause After Navigator *0*  
Prescan

**FMRI**

PSD Trigger *Internal*  
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 *2*

ARDL M Ax FIESTA (cover biliary tract and pancreas) - ARDL M Ax FIESTA (cover biliary tract and pancreas)

ARDL M Ax FIESTA (cover biliary tract and pancreas) - ARDL M Ax FIESTA (cover biliary tract and pancreas)

## MSK-THR HIP NEW

Protocol: adult\_abdomen\_BOD - MRCP 2020 ARDL

## IMAGING PARAMETERS

|                 |                    |
|-----------------|--------------------|
| Imaging Mode    | 3D                 |
| Pulse Sequence  | LAVA               |
| Imaging Options | EDR, Fast, ARC, HS |
| PSD Name        | efgre3d_aspir      |
| Phase           | 2.00               |
| Slice           | 1.00               |
| HyperSense      | 1.40               |

## SCAN RANGE

|                   |      |
|-------------------|------|
| FOV               | 42.0 |
| Slice Thickness   | 2.00 |
| Location per Slab | 124  |
| Overlap Locations | 0    |
| Number of Slices  | 1    |

## ACQ TIMING

|                  |           |
|------------------|-----------|
| Freq             | 300       |
| Phase            | 200       |
| Freq DIR         | R/L       |
| NEX              | 1.00      |
| Phase FOV        | 0.80      |
| Auto Shim        | Auto      |
| Phase Correction | No        |
| RF Drive Mode    | Single    |
| Excitation Mode  | Selective |

## FMRI

|                         |           |
|-------------------------|-----------|
| PSD Trigger             | Internal  |
| View Order              | Bottom/Up |
| # of Repetitions REST   | 0         |
| # of Repetitions ACTIVE | 0         |

## SAT

|                      |             |
|----------------------|-------------|
| Tag Type             | None        |
| Fat/Water Saturation | Fat Special |

## TRICKS

|               |    |
|---------------|----|
| Pause On/Off  | On |
| Auto Subtract | 0  |
| Auto SCIC     | 2  |

## SCAN TIMING

|                    |       |
|--------------------|-------|
| Flip Angle         | 12    |
| Number of Echoes   | 1     |
| TI                 | 24    |
| Receiver Bandwidth | 50.00 |

## IMAGE ENHANCE

|               |   |
|---------------|---|
| Filter Choice | A |
|---------------|---|

## USER CVS

|               |       |
|---------------|-------|
| User CV4      | 9.70  |
| User CV6      | 1.00  |
| User CV30     | 1.00  |
| User CV34     | 70.00 |
| User CV Mask2 | 8     |

## MULTI-PHASE

|                          |     |
|--------------------------|-----|
| Seperate Series          | 0   |
| Trigger Delay without AV | 9.7 |
| Mask Phase               | 0   |
| Mask Pause               | 0   |
| Preserve                 | 0   |

## DIFFUSION

|                      |         |
|----------------------|---------|
| Recon All Images     | On      |
| # Synthetic b-values | 1       |
| Synthetic b-value    | 1000.0; |

## CONTRAST

|                 |    |
|-----------------|----|
| Contrast Yes/No | No |
|-----------------|----|

Ax LAVA ASPIR - Ax LAVA ASPIR

Ax LAVA ASPIR - Ax LAVA ASPIR

## MSK-THR HIP NEW

Protocol: adult\_abdomen\_BOD - MRCP 2020 ARDL

**IMAGING PARAMETERS**

Imaging Mode *2D*  
Pulse Sequence *Spin Echo*  
Imaging Options *Fast, ZIP512, SS*

**SCAN RANGE**

FOV *34.0*  
Slice Thickness *40.00*  
Slice Spacing *0.0*  
Overlap Locations *0*  
Number of Slices *4*

**ACQ TIMING**

Freq *320*  
Phase *320*  
Freq DIR *R/L*  
NEX *1.00*  
# of Acq. Before Pause *0*  
Phase FOV *1.00*  
Auto Shim *Auto*  
Phase Correction *No*  
RF Drive Mode *Single*  
Excitation Mode *Selective*

**FMRI**

PSD Trigger *Internal*  
View Order *Bottom/Up*  
# of Repetitions REST *0*  
# of Repetitions ACTIVE *0*

**SAT**

Tag Type *None*  
Fat/Water Saturation *Fat*

**TRICKS**

Pause On/Off *On*  
Auto Subtract *0*  
Auto SCIC *2*

**SCAN TIMING**

TE *832.0*  
Number of Echoes *1*  
TR *Minimum*  
Receiver Bandwidth *62.50*

**IMAGE ENHANCE**

Filter Choice *None*

**USER CVS**

User CV1 *1.00*  
User CV2 *264.00*  
User CV13 *1.00*  
User CV Mask2 *0*

**MULTI-PHASE**

Seperate Series *0*  
Mask Phase *0*  
Mask Pause *0*  
Preserve *0*

**DIFFUSION**

Recon All Images *On*  
# Synthetic b-values *1*  
Synthetic b-value *1000.0;*

**CONTRAST**

Contrast Yes/No *No*

ARDL H Ax MRCP slab - ARDL H Ax MRCP slab

ARDL H Ax MRCP slab - ARDL H Ax MRCP slab

## MSK-THR HIP NEW

Protocol: adult\_abdomen\_BOD - MRCP 2020 ARDL

## IMAGING PARAMETERS

Imaging Mode *2D*  
Pulse Sequence *Spin Echo*  
Imaging Options *Fast, ZIP512, SS*

## SCAN RANGE

FOV *30.0*  
Slice Thickness *40.00*  
Slice Spacing *0.0*  
Overlap Locations *0*  
Number of Slices *1*

## ACQ TIMING

Freq *320*  
Phase *320*  
Freq DIR *Unswap*  
NEX *1.00*  
# of Acq. Before Pause *1*  
Phase FOV *1.00*  
Auto Shim *Auto*  
Phase Correction *No*  
RF Drive Mode *Single*  
Excitation Mode *Selective*

## FMRI

PSD Trigger *Internal*  
View Order *Bottom/Up*  
# of Repetitions REST *0*  
# of Repetitions ACTIVE *0*

## SAT

Tag Type *None*  
Fat/Water Saturation *Fat*

## TRICKS

Pause On/Off *On*  
Auto Subtract *0*  
Auto SCIC *2*

## SCAN TIMING

TE *870.0*  
Number of Echoes *1*  
TR *Minimum*  
Receiver Bandwidth *62.50*

## IMAGE ENHANCE

Filter Choice *None*

## USER CVS

User CV1 *1.00*  
User CV2 *264.00*  
User CV13 *1.00*  
User CV Mask2 *0*

## MULTI-PHASE

Seperate Series *0*  
Mask Phase *0*  
Mask Pause *0*  
Preserve *0*

## DIFFUSION

Recon All Images *On*  
# Synthetic b-values *1*  
Synthetic b-value *1000.0;*

## CONTRAST

Contrast Yes/No *No*

ARDL H Cor slab - ARDL H Cor slab

ARDL H Cor slab - ARDL H Cor slab

## MSK-THR HIP NEW

Protocol: adult\_abdomen\_BOD - MRCP 2020 ARDL

## IMAGING PARAMETERS

Imaging Mode *2D*  
Pulse Sequence *Spin Echo*  
Imaging Options *Fast, ZIP512, SS*

## SCAN RANGE

FOV *30.0*  
Slice Thickness *40.00*  
Slice Spacing *0.0*  
Overlap Locations *0*  
Number of Slices *1*

## ACQ TIMING

Freq *320*  
Phase *320*  
Freq DIR *Unswap*  
NEX *1.00*  
# of Acq. Before Pause *1*  
Phase FOV *1.00*  
Auto Shim *Auto*  
Phase Correction *No*  
RF Drive Mode *Single*  
Excitation Mode *Selective*

## FMRI

PSD Trigger *Internal*  
View Order *Bottom/Up*  
# of Repetitions REST *0*  
# of Repetitions ACTIVE *0*

## SAT

Tag Type *None*  
Fat/Water Saturation *Fat*

## TRICKS

Pause On/Off *On*  
Auto Subtract *0*  
Auto SCIC *Off*

## SCAN TIMING

TE *883.0*  
Number of Echoes *1*  
TR *Minimum*  
Receiver Bandwidth *62.50*

## IMAGE ENHANCE

Filter Choice *None*

## USER CVS

User CV1 *1.00*  
User CV2 *264.00*  
User CV13 *1.00*  
User CV Mask2 *0*

## MULTI-PHASE

Seperate Series *0*  
Mask Phase *0*  
Mask Pause *0*  
Preserve *0*

## DIFFUSION

Recon All Images *On*  
# Synthetic b-values *1*  
Synthetic b-value *1000.0;*

## CONTRAST

Contrast Yes/No *No*

ARDL H Cor oblique slab - ARDL H Cor oblique slab

ARDL H Cor oblique slab - ARDL H Cor oblique slab



## MSK-THR HIP NEW

Protocol: adult\_abdomen\_BOD - MRCP 2020 ARDL

## IMAGING PARAMETERS

Imaging Mode *2D*  
Pulse Sequence *Spin Echo*  
Imaging Options *Fast, ZIP512, SS*

## SCAN RANGE

FOV *30.0*  
Slice Thickness *40.00*  
Slice Spacing *0.0*  
Overlap Locations *0*  
Number of Slices *1*

## ACQ TIMING

Freq *320*  
Phase *320*  
Freq DIR *Unswap*  
NEX *1.00*  
# of Acq. Before Pause *1*  
Phase FOV *1.00*  
Auto Shim *Auto*  
Phase Correction *No*  
RF Drive Mode *Single*  
Excitation Mode *Selective*

## FMRI

PSD Trigger *Internal*  
View Order *Bottom/Up*  
# of Repetitions REST *0*  
# of Repetitions ACTIVE *0*

## SAT

Tag Type *None*  
Fat/Water Saturation *Fat*

## TRICKS

Pause On/Off *On*  
Auto Subtract *0*  
Auto SCIC *Off*

## SCAN TIMING

TE *883.0*  
Number of Echoes *1*  
TR *Minimum*  
Receiver Bandwidth *62.50*

## IMAGE ENHANCE

Filter Choice *None*

## USER CVS

User CV1 *1.00*  
User CV2 *264.00*  
User CV13 *1.00*  
User CV Mask2 *0*

## MULTI-PHASE

Seperate Series *0*  
Mask Phase *0*  
Mask Pause *0*  
Preserve *0*

## DIFFUSION

Recon All Images *On*  
# Synthetic b-values *1*  
Synthetic b-value *1000.0;*

## CONTRAST

Contrast Yes/No *No*

ARDL H Cor oblique slab - ARDL H Cor oblique slab

ARDL H Cor oblique slab - ARDL H Cor oblique slab

## MSK-THR HIP NEW

Protocol: adult\_abdomen\_BOD - MRCP 2020 ARDL

**IMAGING PARAMETERS**

Imaging Mode *2D*  
Pulse Sequence *Spin Echo*  
Imaging Options *Fast, ZIP512, SS*

**SCAN RANGE**

FOV *30.0*  
Slice Thickness *40.00*  
Slice Spacing *0.0*  
Overlap Locations *0*

**ACQ TIMING**

Freq *320*  
Phase *320*  
Freq DIR *Unswap*  
NEX *1.00*  
# of Acq. Before Pause *1*  
Phase FOV *1.00*  
Auto Shim *Auto*  
Phase Correction *No*  
RF Drive Mode *Single*  
Excitation Mode *Selective*

**FMRI**

PSD Trigger *Internal*  
View Order *Bottom/Up*  
# of Repetitions REST *0*  
# of Repetitions ACTIVE *0*

**SAT**

Tag Type *None*  
Fat/Water Saturation *Fat*

**TRICKS**

Pause On/Off *On*  
Auto Subtract *0*  
Auto SCIC *Off*

**SCAN TIMING**

TE *870.0*  
Number of Echoes *1*  
TR *Minimum*  
Receiver Bandwidth *62.50*

**IMAGE ENHANCE**

Filter Choice *None*

**USER CVS**

User CV1 *1.00*  
User CV2 *264.00*  
User CV13 *1.00*  
User CV Mask2 *0*

**MULTI-PHASE**

Seperate Series *0*  
Mask Phase *0*  
Mask Pause *0*  
Preserve *0*

**DIFFUSION**

Recon All Images *On*  
# Synthetic b-values *1*  
Synthetic b-value *1000.0;*

**CONTRAST**

Contrast Yes/No *No*

ARDL H Pancreatic duct slab - ARDL H Pancreatic duct slab

ARDL H Pancreatic duct slab - ARDL H Pancreatic duct slab

## MSK-THR HIP NEW

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**IMAGING PARAMETERS**

|                 |                       |
|-----------------|-----------------------|
| Imaging Mode    | 2D                    |
| Pulse Sequence  | Spin Echo             |
| Imaging Options | EDR, EPI, DIFF, Asset |
| Phase           | 2.00                  |

**SCAN RANGE**

|                   |      |
|-------------------|------|
| FOV               | 40.0 |
| Slice Thickness   | 8.00 |
| Slice Spacing     | 0.0  |
| Overlap Locations | 0    |
| Number of Slices  | 26   |

**ACQ TIMING**

|                  |           |
|------------------|-----------|
| Freq             | 100       |
| Phase            | 128       |
| Freq DIR         | R/L       |
| Phase FOV        | 1.00      |
| Auto Shim        | Auto      |
| Phase Correction | Yes       |
| RF Drive Mode    | Single    |
| Excitation Mode  | Selective |

**FMRI**

|                         |           |
|-------------------------|-----------|
| PSD Trigger             | Internal  |
| 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     | 2  |

**SCAN TIMING**

|                  |         |
|------------------|---------|
| TE               | Minimum |
| Number of Echoes | 1       |
| TR               | 3636.0  |
| Number of Shots  | 1       |

**IMAGE ENHANCE**

|               |      |
|---------------|------|
| Filter Choice | None |
|---------------|------|

**USER CVS**

|               |         |
|---------------|---------|
| User CV0      | 1.00    |
| TR Min        | 2000.0  |
| TR Max        | 17000.0 |
| User CV39     | 1.00    |
| User CV Mask2 | 0       |

**MULTI-PHASE**

|                 |   |
|-----------------|---|
| Seperate Series | 0 |
| Mask Phase      | 0 |
| Mask Pause      | 0 |
| Preserve        | 0 |

**DIFFUSION**

|                                |              |
|--------------------------------|--------------|
| Optimized TE                   | Yes          |
| Diffusion Directions           | S/I          |
| Number of Diffusion Directions | 1            |
| Number of T2 Images            | 1            |
| Dual Spin Echo                 | Off          |
| Recon All Images               | On           |
| Multi b-values                 | 600.0;       |
| Multi NEX Values               | 2.0;         |
| NEX For T2                     | 1.00         |
| Real Time Field Adjustment     | 1            |
| # Synthetic b-values           | 2            |
| Synthetic b-value              | 100.0;800.0; |

**CONTRAST**

|                 |    |
|-----------------|----|
| Contrast Yes/No | No |
|-----------------|----|

DWI Ax DL high BH - DWI Ax DL high BH

DWI Ax DL high BH - DWI Ax DL high BH

## MSK-THR HIP NEW

Protocol: adult\_abdomen\_BOD - MRCP 2020 ARDL

**IMAGING PARAMETERS**

|                 |                                 |
|-----------------|---------------------------------|
| Imaging Mode    | 3D                              |
| Pulse Sequence  | FRFSE-XL                        |
| Imaging Options | EDR, Fast, Asset, FR, Nav, MRCP |
| Phase           | 2.00                            |

**SCAN RANGE**

|                   |      |
|-------------------|------|
| FOV               | 33.0 |
| Slice Thickness   | 0.90 |
| Location per Slab | 100  |
| Overlap Locations | 0    |
| Number of Slices  | 1    |

**ACQ TIMING**

|                  |           |
|------------------|-----------|
| Freq             | 320       |
| Phase            | 320       |
| Freq DIR         | S/I       |
| NEX              | 1.00      |
| Phase FOV        | 1.00      |
| Auto Shim        | Auto      |
| Phase Correction | No        |
| RF Drive Mode    | Single    |
| Excitation Mode  | Selective |

**USER CVS**

|               |        |
|---------------|--------|
| User CV30     | 1.00   |
| User CV34     | 100.00 |
| User CV Mask2 | 8      |

**MULTI-PHASE**

|                 |   |
|-----------------|---|
| Seperate Series | 0 |
| Mask Phase      | 0 |
| Mask Pause      | 0 |
| Preserve        | 0 |

**DIFFUSION**

|                      |         |
|----------------------|---------|
| Recon All Images     | On      |
| Multi b-values       | 1000.0; |
| Multi NEX Values     | 1.0;    |
| # Synthetic b-values | 1       |
| Synthetic b-value    | 1000.0; |

**TRACKER**

|                   |       |
|-------------------|-------|
| Tracker Length    | 120.0 |
| Tracker Thickness | 20.0  |

**SCAN TIMING**

|                    |         |
|--------------------|---------|
| TE                 | Minimum |
| Number of Echoes   | 1       |
| Echo Train Length  | 120     |
| Receiver Bandwidth | 62.50   |

**IMAGE ENHANCE**

|               |   |
|---------------|---|
| Filter Choice | B |
|---------------|---|

**GATING/TRIGGER**

|                         |     |
|-------------------------|-----|
| Resp. Trigger Window    | 30  |
| Acceptance Window       | 2.0 |
| Run RR Measurement      | 0   |
| Auto Trigger Time       | 5   |
| Navigator Pre Scan Time | 10  |

**FMRI**

|                         |           |
|-------------------------|-----------|
| PSD Trigger             | Internal  |
| View Order              | Bottom/Up |
| # of Repetitions REST   | 0         |
| # of Repetitions ACTIVE | 0         |

**SAT**

|                      |      |
|----------------------|------|
| Tag Type             | None |
| Fat/Water Saturation | Fat  |

**TRICKS**

|               |     |
|---------------|-----|
| Pause On/Off  | On  |
| Auto Subtract | 0   |
| Auto SCIC     | Off |

**CONTRAST**

|                 |    |
|-----------------|----|
| Contrast Yes/No | No |
|-----------------|----|

Cor 3D MRCP Nav - Cor 3D MRCP Nav

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