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\\Physics tree

Export_archive

Whole_Body_Sola

Whole_body_Sola_7_stations

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*

TA: 9 sec Coil Selection: Auto Voxel Size: 1.4×1.4×6.0 mm³ Acc.: 3 Rel. SNR: 1.00

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | Off |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 H50.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 2 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 H50.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 3 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 H50.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Phase Oversampling | 70 % |
| FoV Read | 450 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 6.0 mm |
| TR | 1400.0 ms |
| TE | 93.00 ms |
| Averages | 1 |
| Concatenations | 3 |
| AutoAlign | --- |
| Coil Elements | BO1;HE1-4;NE1,2 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 1400.0 ms |
| TE | 93.00 ms |
| TD | 0.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle | 160 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|--------------|----------|
| Dynamic Mode | Standard |
|--------------|----------|

Contrast - Dynamic

| | |
|-----------------|-----|
| Measurements | 1 |
| Multiple Series | Off |

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 450 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 6.0 mm |
| Base Resolution | 320 |
| Phase Resolution | 80 % |
| Interpolation | Off |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | TSE/Separate |
| Acceleration Factor PE | 3 |
| Reference Lines PE | 36 |
| Phase Partial Fourier | 6/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 H50.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 2 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 H50.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 3 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 H50.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Phase Oversampling | 70 % |
| FoV Read | 450 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 6.0 mm |
| TR | 1400.0 ms |
| Multi-Slice Mode | Single Shot |
| Series | Interleaved |
| Concatenations | 3 |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Position | L0.0 P30.0 H50.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 2 |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Position | L0.0 P30.0 H50.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 3 |
| Position | L0.0 P30.0 H50.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| AutoAlign | --- |
| Initial Position | L0.0 P30.0 H50.0 |
| L | 0.0 mm |
| P | 30.0 mm |
| H | 50.0 mm |
| Initial Orientation | Coronal |
| Initial Rotation | 90.00 deg |

Geometry - Navigator

Geometry - Saturation

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|---------------------|----------|
| Set-n-Go Protocol | Off |
| Table Position | 50 mm |
| Table Position | H |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | |
| Composing Group | 1 |
| Last Step | Off |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Tune up |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-------------|
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 263 mm |
| R >> L | 350 mm |
| F >> H | 350 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |

System - Tx/Rx

| | |
|-------------------|-------|
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 1400.0 ms |
| Concatenations | 3 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FoV Read | 450 mm |
| FoV Phase | 75.0 % |
| Phase Resolution | 80 % |
| Dynamic Mode | Standard |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 3 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|-----------|
| Magn. Preparation | None |
| Save Original Images | On |
| Contrasts | 1 |
| TE | 93.00 ms |
| TR | 1400.0 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|----------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Composing Group | 1 |
| Last Step | Off |
| Series Description | |

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | h |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Flow Compensation | None |
| Bandwidth | 651 Hz/Px |
| Echo Spacing | 3.72 ms |

Sequence - Part 1

| | |
|--------------|-----|
| Turbo Factor | 192 |
|--------------|-----|

Sequence - Part 2

| | |
|--------------|----|
| Introduction | On |
|--------------|----|

Sequence - Assistant

| | |
|----------------|------------|
| SAR Assistant | Flip Angle |
| Min Flip Angle | 120 deg |
| Allowed Delay | 30 s |

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TA: 18 sec Coil Selection: Auto Voxel Size: 1.4×1.4×6.0 mm³ Acc:: 3 Rel. SNR: 1.00**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | Off |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|-------------------------|
| Slice Group | 1 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F160.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 2 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F160.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 3 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F160.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 4 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F160.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Phase Oversampling | 70 % |
| FoV Read | 450 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 6.0 mm |
| TR | 1400.0 ms |
| TE | 93.00 ms |
| Averages | 1 |
| Concatenations | 3 |
| AutoAlign | --- |
| Coil Elements | BO1,2;HE3,4;NE1,2;SP1,2 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 1400.0 ms |
| TE | 93.00 ms |
| TD | 0.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle | 160 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |

Contrast - Common

| | |
|----------------|-----------|
| Reconstruction | Magnitude |
|----------------|-----------|

Contrast - Dynamic

| | |
|-----------------|----------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Off |

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 450 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 6.0 mm |
| Base Resolution | 320 |
| Phase Resolution | 80 % |
| Interpolation | Off |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | TSE/Separate |
| Acceleration Factor PE | 3 |
| Reference Lines PE | 36 |
| Phase Partial Fourier | 6/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|----------------------|
| Slice Group | 1 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F160.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 2 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F160.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 3 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F160.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 4 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F160.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Phase Oversampling | 70 % |
| FoV Read | 450 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 6.0 mm |
| TR | 1400.0 ms |
| Multi-Slice Mode | Single Shot |

Geometry - Common

| | |
|----------------|-------------|
| Series | Interleaved |
| Concatenations | 3 |

Geometry - AutoAlign

| | |
|---------------------|----------------------|
| Slice Group | 1 |
| Position | L0.0 P30.0 F160.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 2 |
| Position | L0.0 P30.0 F160.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 3 |
| Position | L0.0 P30.0 F160.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 4 |
| Position | L0.0 P30.0 F160.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| AutoAlign | --- |
| Initial Position | L0.0 P30.0 F160.0 |
| L | 0.0 mm |
| P | 30.0 mm |
| F | 160.0 mm |
| Initial Orientation | Coronal |
| Initial Rotation | 90.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|---------------------|----------|
| Set-n-Go Protocol | Off |
| Table Position | 160 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | |
| Composing Group | 1 |
| Last Step | Off |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Tune up |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-------------|
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 263 mm |
| R >> L | 350 mm |
| F >> H | 350 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 1400.0 ms |
| Concatenations | 3 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FoV Read | 450 mm |
| FoV Phase | 75.0 % |
| Phase Resolution | 80 % |
| Dynamic Mode | Standard |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 3 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|-----------|
| Magn. Preparation | None |
| Save Original Images | On |
| Contrasts | 1 |
| TE | 93.00 ms |
| TR | 1400.0 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|----------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Composing Group | 1 |

Inline - Composing

| | |
|--------------------|-----|
| Last Step | Off |
| Series Description | |

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | h |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Flow Compensation | None |
| Bandwidth | 651 Hz/Px |
| Echo Spacing | 3.72 ms |
| Turbo Factor | 192 |

Sequence - Part 2

| | |
|--------------|----|
| Introduction | On |
|--------------|----|

Sequence - Assistant

| | |
|----------------|------------|
| SAR Assistant | Flip Angle |
| Min Flip Angle | 120 deg |
| Allowed Delay | 30 s |

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TA: 18 sec Coil Selection: Auto Voxel Size: 1.4×1.4×6.0 mm³ Acc:: 3 Rel. SNR: 1.00**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | Off |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|----------------------|
| Slice Group | 1 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F320.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 2 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F320.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 3 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F320.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 4 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F320.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Phase Oversampling | 70 % |
| FoV Read | 450 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 6.0 mm |
| TR | 1400.0 ms |
| TE | 93.00 ms |
| Averages | 1 |
| Concatenations | 3 |
| AutoAlign | --- |
| Coil Elements | BO1-3;BO1;NE1;SP1-3 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 1400.0 ms |
| TE | 93.00 ms |
| TD | 0.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle | 160 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |

Contrast - Common

| | |
|----------------|-----------|
| Reconstruction | Magnitude |
|----------------|-----------|

Contrast - Dynamic

| | |
|-----------------|----------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Off |

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 450 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 6.0 mm |
| Base Resolution | 320 |
| Phase Resolution | 80 % |
| Interpolation | Off |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | TSE/Separate |
| Acceleration Factor PE | 3 |
| Reference Lines PE | 36 |
| Phase Partial Fourier | 6/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|----------------------|
| Slice Group | 1 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F320.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 2 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F320.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 3 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F320.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 4 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F320.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Phase Oversampling | 70 % |
| FoV Read | 450 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 6.0 mm |
| TR | 1400.0 ms |
| Multi-Slice Mode | Single Shot |

Geometry - Common

| | |
|----------------|-------------|
| Series | Interleaved |
| Concatenations | 3 |

Geometry - AutoAlign

| | |
|---------------------|----------------------|
| Slice Group | 1 |
| Position | L0.0 P30.0 F320.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 2 |
| Position | L0.0 P30.0 F320.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 3 |
| Position | L0.0 P30.0 F320.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 4 |
| Position | L0.0 P30.0 F320.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| AutoAlign | --- |
| Initial Position | L0.0 P30.0 F320.0 |
| L | 0.0 mm |
| P | 30.0 mm |
| F | 320.0 mm |
| Initial Orientation | Coronal |
| Initial Rotation | 90.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|---------------------|----------|
| Set-n-Go Protocol | Off |
| Table Position | 320 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | |
| Composing Group | 1 |
| Last Step | Off |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Tune up |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-------------|
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 263 mm |
| R >> L | 350 mm |
| F >> H | 350 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 1400.0 ms |
| Concatenations | 3 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FoV Read | 450 mm |
| FoV Phase | 81.3 % |
| Phase Resolution | 80 % |
| Dynamic Mode | Standard |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 3 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|-----------|
| Magn. Preparation | None |
| Save Original Images | On |
| Contrasts | 1 |
| TE | 93.00 ms |
| TR | 1400.0 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|----------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Composing Group | 1 |

Inline - Composing

| | |
|--------------------|-----|
| Last Step | Off |
| Series Description | |

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | h |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Flow Compensation | None |
| Bandwidth | 651 Hz/Px |
| Echo Spacing | 3.72 ms |
| Turbo Factor | 208 |

Sequence - Part 2

| | |
|--------------|----|
| Introduction | On |
|--------------|----|

Sequence - Assistant

| | |
|----------------|------------|
| SAR Assistant | Flip Angle |
| Min Flip Angle | 120 deg |
| Allowed Delay | 30 s |

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\pelv_localizer *

TA: 9 sec Coil Selection: Auto Voxel Size: 1.4×1.4×6.0 mm³ Acc.: 3 Rel. SNR: 1.00**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | Off |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|----------------------|
| Slice Group | 1 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F620.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 2 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F620.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 3 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F620.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Phase Oversampling | 70 % |
| FoV Read | 450 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 6.0 mm |
| TR | 1400.0 ms |
| TE | 93.00 ms |
| Averages | 1 |
| Concatenations | 3 |
| AutoAlign | --- |
| Coil Elements | BO3;BO1-3;SP3-5 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 1400.0 ms |
| TE | 93.00 ms |
| TD | 0.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle | 160 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|--------------|----------|
| Dynamic Mode | Standard |
| Measurements | 1 |

Contrast - Dynamic

| | |
|-----------------|-----|
| Multiple Series | Off |
|-----------------|-----|

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 450 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 6.0 mm |
| Base Resolution | 320 |
| Phase Resolution | 80 % |
| Interpolation | Off |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | TSE/Separate |
| Acceleration Factor PE | 3 |
| Reference Lines PE | 36 |
| Phase Partial Fourier | 6/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|----------------------|
| Slice Group | 1 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F620.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 2 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F620.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 3 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F620.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Phase Oversampling | 70 % |
| FoV Read | 450 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 6.0 mm |
| TR | 1400.0 ms |
| Multi-Slice Mode | Single Shot |
| Series | Interleaved |
| Concatenations | 3 |

Geometry - AutoAlign

| | |
|---------------------|----------------------|
| Slice Group | 1 |
| Position | L0.0 P30.0 F620.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 2 |
| Position | L0.0 P30.0 F620.0 mm |
| Orientation | Coronal |

Geometry - AutoAlign

| | |
|---------------------|----------------------|
| Phase Encoding Dir. | F >> H |
| Slice Group | 3 |
| Position | L0.0 P30.0 F620.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| AutoAlign | --- |
| Initial Position | L0.0 P30.0 F620.0 |
| L | 0.0 mm |
| P | 30.0 mm |
| F | 620.0 mm |
| Initial Orientation | Coronal |
| Initial Rotation | 90.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|---------------------|----------|
| Set-n-Go Protocol | Off |
| Table Position | 620 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | |
| Composing Group | 1 |
| Last Step | Off |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Tune up |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-------------|
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 263 mm |
| R >> L | 350 mm |
| F >> H | 350 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |

System - Tx/Rx

| | |
|---------------|-------|
| Image Scaling | 1.000 |
|---------------|-------|

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 1400.0 ms |
| Concatenations | 3 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FoV Read | 450 mm |
| FoV Phase | 81.3 % |
| Phase Resolution | 80 % |
| Dynamic Mode | Standard |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 3 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|-----------|
| Magn. Preparation | None |
| Save Original Images | On |
| Contrasts | 1 |
| TE | 93.00 ms |
| TR | 1400.0 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|----------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Composing Group | 1 |
| Last Step | Off |
| Series Description | |

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | h |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Flow Compensation | None |
| Bandwidth | 651 Hz/Px |
| Echo Spacing | 3.72 ms |
| Turbo Factor | 208 |

Sequence - Part 2

| | |
|--------------|----|
| Introduction | On |
|--------------|----|

Sequence - Assistant

| | |
|----------------|------------|
| SAR Assistant | Flip Angle |
| Min Flip Angle | 120 deg |
| Allowed Delay | 30 s |

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\thigh_localizer *

TA: 9 sec Coil Selection: Auto Voxel Size: 1.4×1.4×6.0 mm³ Acc.: 3 Rel. SNR: 1.00**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | Off |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|----------------------|
| Slice Group | 1 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F920.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 2 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F920.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 3 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F920.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Phase Oversampling | 70 % |
| FoV Read | 450 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 6.0 mm |
| TR | 1400.0 ms |
| TE | 93.00 ms |
| Averages | 1 |
| Concatenations | 3 |
| AutoAlign | --- |
| Coil Elements | BO3;BO1-3;SP3-5 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 1400.0 ms |
| TE | 93.00 ms |
| TD | 0.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle | 160 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|--------------|----------|
| Dynamic Mode | Standard |
| Measurements | 1 |

Contrast - Dynamic

| | |
|-----------------|-----|
| Multiple Series | Off |
|-----------------|-----|

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 450 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 6.0 mm |
| Base Resolution | 320 |
| Phase Resolution | 80 % |
| Interpolation | Off |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | TSE/Separate |
| Acceleration Factor PE | 3 |
| Reference Lines PE | 36 |
| Phase Partial Fourier | 6/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|----------------------|
| Slice Group | 1 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F920.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 2 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F920.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 3 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | L0.0 P30.0 F920.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Phase Oversampling | 70 % |
| FoV Read | 450 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 6.0 mm |
| TR | 1400.0 ms |
| Multi-Slice Mode | Single Shot |
| Series | Interleaved |
| Concatenations | 3 |

Geometry - AutoAlign

| | |
|---------------------|----------------------|
| Slice Group | 1 |
| Position | L0.0 P30.0 F920.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| Slice Group | 2 |
| Position | L0.0 P30.0 F920.0 mm |
| Orientation | Coronal |

Geometry - AutoAlign

| | |
|---------------------|----------------------|
| Phase Encoding Dir. | F >> H |
| Slice Group | 3 |
| Position | L0.0 P30.0 F920.0 mm |
| Orientation | Coronal |
| Phase Encoding Dir. | F >> H |
| AutoAlign | --- |
| Initial Position | L0.0 P30.0 F920.0 |
| L | 0.0 mm |
| P | 30.0 mm |
| F | 920.0 mm |
| Initial Orientation | Coronal |
| Initial Rotation | 90.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|---------------------|----------|
| Set-n-Go Protocol | Off |
| Table Position | 920 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | |
| Composing Group | 1 |
| Last Step | On |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Tune up |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-------------|
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 263 mm |
| R >> L | 350 mm |
| F >> H | 350 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |

System - Tx/Rx

| | |
|---------------|-------|
| Image Scaling | 1.000 |
|---------------|-------|

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 1400.0 ms |
| Concatenations | 3 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FoV Read | 450 mm |
| FoV Phase | 81.3 % |
| Phase Resolution | 80 % |
| Dynamic Mode | Standard |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 3 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|-----------|
| Magn. Preparation | None |
| Save Original Images | On |
| Contrasts | 1 |
| TE | 93.00 ms |
| TR | 1400.0 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|----------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Composing Group | 1 |
| Last Step | On |
| Series Description | |

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | h |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Flow Compensation | None |
| Bandwidth | 651 Hz/Px |
| Echo Spacing | 3.72 ms |
| Turbo Factor | 208 |

Sequence - Part 2

| | |
|--------------|----|
| Introduction | On |
|--------------|----|

Sequence - Assistant

| | |
|----------------|------------|
| SAR Assistant | Flip Angle |
| Min Flip Angle | 120 deg |
| Allowed Delay | 30 s |

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\ep2d_diff_stir_tra_S
IAAdj *

TA: 3:51 min Coil Selection: Auto Voxel Size: 1.6×1.6×5.0 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 1/7

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | Off |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 H28.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| TR | 5880.0 ms |
| TE | 71.00 ms |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | HE1-4;NE2 |

Contrast - Common

| | |
|--------------------|---------------|
| TR | 5880.0 ms |
| TE | 71.00 ms |
| MTC | Off |
| Magn. Preparation | Slice-sel. IR |
| TI | 180 ms |
| Fat-Water Contrast | Standard |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|--------------|----------|
| Dynamic Mode | Standard |
| Delay in TR | 0.00 ms |

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 134 |
| Phase Resolution | 100 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | GRE/Separate |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 32 |
| Phase Partial Fourier | 7/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |

Geometry - Common

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 H28.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| TR | 5880.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Position | R1.3 A7.0 H28.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | R1.3 A7.0 H28.0 |
| R | 1.3 mm |
| A | 7.0 mm |
| H | 28.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator

Geometry - Saturation

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|---------------------|--------------|
| Set-n-Go Protocol | On |
| Table Position | 28 mm |
| Table Position | H |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Diffusion |
| Series Description | composed_DWI |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |

System - Adjustments

| | |
|-----------------------|-------------|
| Adjustment Strategy | SliceAdjust |
| B0 Shim | Whole Body |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

Sequence - Part 1

| | |
|-------------------|------|
| Free Echo Spacing | Off |
| Optimization | None |
| EPI Factor | 108 |

Sequence - Part 2

| | |
|------------------|----------|
| Introduction | Off |
| Phase Correction | External |

System - Adjust Volume

| | |
|-------------|--------------------|
| Position | R1.3 A7.0 H28.0 mm |
| Orientation | Transversal |
| Rotation | 90.00 deg |
| R >> L | 280 mm |
| A >> P | 347 mm |
| F >> H | 200 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 3.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 5880.0 ms |
| Concatenations | 1 |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Diff

| | |
|--------------------------|-----------------------|
| Diffusion Mode | 3-Scan Trace |
| Diff. Directions | 3 |
| Diffusion Scheme | Bipolar |
| Diff. Weightings | 3 |
| b-value 1 | 50 s/mm ² |
| b-value 2 | 600 s/mm ² |
| b-value 3 | 900 s/mm ² |
| Averages 1 | 3 |
| Averages 2 | 3 |
| Averages 3 | 6 |
| Dynamic Field Correction | Off |
| Invert Gray Scale | Off |
| Diff. Weighted Images | Off |
| Trace Weighted Images | On |
| Tensor | Off |
| FA Maps | Off |
| ADC Maps | On |
| Exponential ADC Maps | Off |
| b-value >= | 0 s/mm ² |
| ADC Noise Threshold | 0 |
| Noise Masking | Off |
| Calculated Image | Off |

Sequence - Part 1

| | |
|---------------|------------|
| Sequence Name | epir |
| Excitation | Standard |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Bandwidth | 1964 Hz/Px |
| Echo Spacing | 0.57 ms |

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IAAdj *

TA: 3:51 min Coil Selection: Auto Voxel Size: 1.6×1.6×5.0 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 2/7

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | Off |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F172.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| TR | 5880.0 ms |
| TE | 71.00 ms |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO1;NE1,2;SP1,2 |

Contrast - Common

| | |
|--------------------|---------------|
| TR | 5880.0 ms |
| TE | 71.00 ms |
| MTC | Off |
| Magn. Preparation | Slice-sel. IR |
| TI | 180 ms |
| Fat-Water Contrast | Standard |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|--------------|----------|
| Dynamic Mode | Standard |
| Delay in TR | 0.00 ms |

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 134 |
| Phase Resolution | 100 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | GRE/Separate |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 32 |
| Phase Partial Fourier | 7/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |

Geometry - Common

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F172.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| TR | 5880.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Position | R1.3 A7.0 F172.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L1.9 P0.0 H100.0 |
| L | 1.9 mm |
| A | 0.0 mm |
| F | 100.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator

Geometry - Saturation

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|---------------------|--------------|
| Set-n-Go Protocol | On |
| Table Position | 172 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Diffusion |
| Series Description | composed_DWI |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|-------------|
| Adjustment Strategy | SliceAdjust |
| B0 Shim | Whole Body |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

Sequence - Part 1

| | |
|-------------------|------|
| Free Echo Spacing | Off |
| Optimization | None |
| EPI Factor | 108 |

Sequence - Part 2

| | |
|------------------|----------|
| Introduction | Off |
| Phase Correction | External |

System - Adjust Volume

| | |
|-------------|---------------------|
| Position | R1.3 A7.0 F172.0 mm |
| Orientation | Transversal |
| Rotation | 90.00 deg |
| R >> L | 280 mm |
| A >> P | 347 mm |
| F >> H | 200 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 3.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 5880.0 ms |
| Concatenations | 1 |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Diff

| | |
|--------------------------|-----------------------|
| Diffusion Mode | 3-Scan Trace |
| Diff. Directions | 3 |
| Diffusion Scheme | Bipolar |
| Diff. Weightings | 3 |
| b-value 1 | 50 s/mm ² |
| b-value 2 | 600 s/mm ² |
| b-value 3 | 900 s/mm ² |
| Averages 1 | 3 |
| Averages 2 | 3 |
| Averages 3 | 6 |
| Dynamic Field Correction | Off |
| Invert Gray Scale | Off |
| Diff. Weighted Images | Off |
| Trace Weighted Images | On |
| Tensor | Off |
| FA Maps | Off |
| ADC Maps | On |
| Exponential ADC Maps | Off |
| b-value >= | 0 s/mm ² |
| ADC Noise Threshold | 0 |
| Noise Masking | Off |
| Calculated Image | Off |

Sequence - Part 1

| | |
|---------------|------------|
| Sequence Name | epir |
| Excitation | Standard |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Bandwidth | 1964 Hz/Px |
| Echo Spacing | 0.57 ms |

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\ep2d_diff_stir_tra_S
IAAdj *

TA: 3:51 min Coil Selection: Auto Voxel Size: 1.6×1.6×5.0 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 3/7

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | Off |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F372.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| TR | 5880.0 ms |
| TE | 71.00 ms |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO1-3;SP2,3 |

Contrast - Common

| | |
|--------------------|---------------|
| TR | 5880.0 ms |
| TE | 71.00 ms |
| MTC | Off |
| Magn. Preparation | Slice-sel. IR |
| TI | 180 ms |
| Fat-Water Contrast | Standard |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|--------------|----------|
| Dynamic Mode | Standard |
| Delay in TR | 0.00 ms |

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 134 |
| Phase Resolution | 100 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | GRE/Separate |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 32 |
| Phase Partial Fourier | 7/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |

Geometry - Common

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F372.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| TR | 5880.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Position | R1.3 A7.0 F372.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L1.9 P0.0 H100.0 |
| L | 1.9 mm |
| A | 0.0 mm |
| F | 100.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator

Geometry - Saturation

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|---------------------|--------------|
| Set-n-Go Protocol | On |
| Table Position | 372 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Diffusion |
| Series Description | composed_DWI |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|-------------|
| Adjustment Strategy | SliceAdjust |
| B0 Shim | Whole Body |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

Sequence - Part 1

| | |
|-------------------|------|
| Free Echo Spacing | Off |
| Optimization | None |
| EPI Factor | 108 |

Sequence - Part 2

| | |
|------------------|----------|
| Introduction | Off |
| Phase Correction | External |

System - Adjust Volume

| | |
|-------------|---------------------|
| Position | R1.3 A7.0 F372.0 mm |
| Orientation | Transversal |
| Rotation | 90.00 deg |
| R >> L | 280 mm |
| A >> P | 347 mm |
| F >> H | 200 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 3.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 5880.0 ms |
| Concatenations | 1 |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Diff

| | |
|--------------------------|-----------------------|
| Diffusion Mode | 3-Scan Trace |
| Diff. Directions | 3 |
| Diffusion Scheme | Bipolar |
| Diff. Weightings | 3 |
| b-value 1 | 50 s/mm ² |
| b-value 2 | 600 s/mm ² |
| b-value 3 | 900 s/mm ² |
| Averages 1 | 3 |
| Averages 2 | 3 |
| Averages 3 | 6 |
| Dynamic Field Correction | Off |
| Invert Gray Scale | Off |
| Diff. Weighted Images | Off |
| Trace Weighted Images | On |
| Tensor | Off |
| FA Maps | Off |
| ADC Maps | On |
| Exponential ADC Maps | Off |
| b-value >= | 0 s/mm ² |
| ADC Noise Threshold | 0 |
| Noise Masking | Off |
| Calculated Image | Off |

Sequence - Part 1

| | |
|---------------|------------|
| Sequence Name | epir |
| Excitation | Standard |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Bandwidth | 1964 Hz/Px |
| Echo Spacing | 0.57 ms |

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IAAdj *

TA: 3:51 min Coil Selection: Auto Voxel Size: 1.6×1.6×5.0 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 4/7

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | Off |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F572.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| TR | 5880.0 ms |
| TE | 71.00 ms |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO3;BO1,2;SP3-5 |

Contrast - Common

| | |
|--------------------|---------------|
| TR | 5880.0 ms |
| TE | 71.00 ms |
| MTC | Off |
| Magn. Preparation | Slice-sel. IR |
| TI | 180 ms |
| Fat-Water Contrast | Standard |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|--------------|----------|
| Dynamic Mode | Standard |
| Delay in TR | 0.00 ms |

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 134 |
| Phase Resolution | 100 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | GRE/Separate |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 32 |
| Phase Partial Fourier | 7/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |

Geometry - Common

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F572.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| TR | 5880.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Position | R1.3 A7.0 F572.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L1.9 P0.0 H100.0 |
| L | 1.9 mm |
| A | 0.0 mm |
| F | 100.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator

Geometry - Saturation

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|---------------------|--------------|
| Set-n-Go Protocol | On |
| Table Position | 572 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Diffusion |
| Series Description | composed_DWI |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|-------------|
| Adjustment Strategy | SliceAdjust |
| B0 Shim | Whole Body |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|---------------------|
| Position | R1.3 A7.0 F572.0 mm |
| Orientation | Transversal |
| Rotation | 90.00 deg |
| R >> L | 280 mm |
| A >> P | 347 mm |
| F >> H | 200 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 3.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 5880.0 ms |
| Concatenations | 1 |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Diff

| | |
|--------------------------|-----------------------|
| Diffusion Mode | 3-Scan Trace |
| Diff. Directions | 3 |
| Diffusion Scheme | Bipolar |
| Diff. Weightings | 3 |
| b-value 1 | 50 s/mm ² |
| b-value 2 | 600 s/mm ² |
| b-value 3 | 900 s/mm ² |
| Averages 1 | 3 |
| Averages 2 | 3 |
| Averages 3 | 6 |
| Dynamic Field Correction | Off |
| Invert Gray Scale | Off |
| Diff. Weighted Images | Off |
| Trace Weighted Images | On |
| Tensor | Off |
| FA Maps | Off |
| ADC Maps | On |
| Exponential ADC Maps | Off |
| b-value >= | 0 s/mm ² |
| ADC Noise Threshold | 0 |
| Noise Masking | Off |
| Calculated Image | Off |

Sequence - Part 1

| | |
|---------------|------------|
| Sequence Name | epir |
| Excitation | Standard |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Bandwidth | 1964 Hz/Px |
| Echo Spacing | 0.57 ms |

Sequence - Part 1

| | |
|-------------------|------|
| Free Echo Spacing | Off |
| Optimization | None |
| EPI Factor | 108 |

Sequence - Part 2

| | |
|------------------|----------|
| Introduction | Off |
| Phase Correction | External |

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\ep2d_diff_stir_tra_S
IAAdj *

TA: 3:51 min Coil Selection: Auto Voxel Size: 1.6×1.6×5.0 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 5/7

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | Off |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F772.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| TR | 5880.0 ms |
| TE | 71.00 ms |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO2,3;SP5,6 |

Contrast - Common

| | |
|--------------------|---------------|
| TR | 5880.0 ms |
| TE | 71.00 ms |
| MTC | Off |
| Magn. Preparation | Slice-sel. IR |
| TI | 180 ms |
| Fat-Water Contrast | Standard |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|--------------|----------|
| Dynamic Mode | Standard |
| Delay in TR | 0.00 ms |

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 134 |
| Phase Resolution | 100 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | GRE/Separate |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 32 |
| Phase Partial Fourier | 7/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |

Geometry - Common

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F772.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| TR | 5880.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Position | R1.3 A7.0 F772.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L1.9 P0.0 H100.0 |
| L | 1.9 mm |
| A | 0.0 mm |
| F | 100.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator

Geometry - Saturation

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|---------------------|--------------|
| Set-n-Go Protocol | On |
| Table Position | 772 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Diffusion |
| Series Description | composed_DWI |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|-------------|
| Adjustment Strategy | SliceAdjust |
| B0 Shim | Whole Body |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

Sequence - Part 1

| | |
|-------------------|------|
| Free Echo Spacing | Off |
| Optimization | None |
| EPI Factor | 108 |

Sequence - Part 2

| | |
|------------------|----------|
| Introduction | Off |
| Phase Correction | External |

System - Adjust Volume

| | |
|-------------|---------------------|
| Position | R1.3 A7.0 F772.0 mm |
| Orientation | Transversal |
| Rotation | 90.00 deg |
| R >> L | 280 mm |
| A >> P | 347 mm |
| F >> H | 200 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 3.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 5880.0 ms |
| Concatenations | 1 |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Diff

| | |
|--------------------------|-----------------------|
| Diffusion Mode | 3-Scan Trace |
| Diff. Directions | 3 |
| Diffusion Scheme | Bipolar |
| Diff. Weightings | 3 |
| b-value 1 | 50 s/mm ² |
| b-value 2 | 600 s/mm ² |
| b-value 3 | 900 s/mm ² |
| Averages 1 | 3 |
| Averages 2 | 3 |
| Averages 3 | 6 |
| Dynamic Field Correction | Off |
| Invert Gray Scale | Off |
| Diff. Weighted Images | Off |
| Trace Weighted Images | On |
| Tensor | Off |
| FA Maps | Off |
| ADC Maps | On |
| Exponential ADC Maps | Off |
| b-value >= | 0 s/mm ² |
| ADC Noise Threshold | 0 |
| Noise Masking | Off |
| Calculated Image | Off |

Sequence - Part 1

| | |
|---------------|------------|
| Sequence Name | epir |
| Excitation | Standard |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Bandwidth | 1964 Hz/Px |
| Echo Spacing | 0.57 ms |

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\ep2d_diff_stir_tra_S
IAAdj *

TA: 3:51 min Coil Selection: Auto Voxel Size: 1.6×1.6×5.0 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 6/7

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | Off |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F972.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| TR | 5880.0 ms |
| TE | 71.00 ms |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO2,3;HE1-4 |

Contrast - Common

| | |
|--------------------|---------------|
| TR | 5880.0 ms |
| TE | 71.00 ms |
| MTC | Off |
| Magn. Preparation | Slice-sel. IR |
| TI | 180 ms |
| Fat-Water Contrast | Standard |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|--------------|----------|
| Dynamic Mode | Standard |
| Delay in TR | 0.00 ms |

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 134 |
| Phase Resolution | 100 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | GRE/Separate |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 32 |
| Phase Partial Fourier | 7/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |

Geometry - Common

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F972.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| TR | 5880.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Position | R1.3 A7.0 F972.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L1.9 P0.0 H100.0 |
| L | 1.9 mm |
| A | 0.0 mm |
| F | 100.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator

Geometry - Saturation

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|---------------------|--------------|
| Set-n-Go Protocol | On |
| Table Position | 972 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Diffusion |
| Series Description | composed_DWI |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|-------------|
| Adjustment Strategy | SliceAdjust |
| B0 Shim | Whole Body |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

Sequence - Part 1

| | |
|-------------------|------|
| Free Echo Spacing | Off |
| Optimization | None |
| EPI Factor | 108 |

Sequence - Part 2

| | |
|------------------|----------|
| Introduction | Off |
| Phase Correction | External |

System - Adjust Volume

| | |
|-------------|---------------------|
| Position | R1.3 A7.0 F972.0 mm |
| Orientation | Transversal |
| Rotation | 90.00 deg |
| R >> L | 280 mm |
| A >> P | 347 mm |
| F >> H | 200 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 3.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 5880.0 ms |
| Concatenations | 1 |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Diff

| | |
|--------------------------|-----------------------|
| Diffusion Mode | 3-Scan Trace |
| Diff. Directions | 3 |
| Diffusion Scheme | Bipolar |
| Diff. Weightings | 3 |
| b-value 1 | 50 s/mm ² |
| b-value 2 | 600 s/mm ² |
| b-value 3 | 900 s/mm ² |
| Averages 1 | 3 |
| Averages 2 | 3 |
| Averages 3 | 6 |
| Dynamic Field Correction | Off |
| Invert Gray Scale | Off |
| Diff. Weighted Images | Off |
| Trace Weighted Images | On |
| Tensor | Off |
| FA Maps | Off |
| ADC Maps | On |
| Exponential ADC Maps | Off |
| b-value >= | 0 s/mm ² |
| ADC Noise Threshold | 0 |
| Noise Masking | Off |
| Calculated Image | Off |

Sequence - Part 1

| | |
|---------------|------------|
| Sequence Name | epir |
| Excitation | Standard |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Bandwidth | 1964 Hz/Px |
| Echo Spacing | 0.57 ms |

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\ep2d_diff_stir_tra_S
IAAdj *

TA: 3:51 min Coil Selection: Auto Voxel Size: 1.6×1.6×5.0 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 7/7

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | Off |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F1172.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| TR | 5880.0 ms |
| TE | 71.00 ms |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO2,3;HE3,4;NE1,2;SP1 |

Contrast - Common

| | |
|--------------------|---------------|
| TR | 5880.0 ms |
| TE | 71.00 ms |
| MTC | Off |
| Magn. Preparation | Slice-sel. IR |
| TI | 180 ms |
| Fat-Water Contrast | Standard |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|--------------|----------|
| Dynamic Mode | Standard |
| Delay in TR | 0.00 ms |

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 134 |
| Phase Resolution | 100 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | GRE/Separate |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 32 |
| Phase Partial Fourier | 7/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |

Geometry - Common

| | |
|---------------------|----------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F1172.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 80.6 % |
| Slice Thickness | 5.0 mm |
| TR | 5880.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|----------------------|
| Slice Group | 1 |
| Position | R1.3 A7.0 F1172.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L1.9 P0.0 H100.0 |
| L | 1.9 mm |
| A | 0.0 mm |
| F | 100.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator

Geometry - Saturation

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|---------------------|--------------|
| Set-n-Go Protocol | On |
| Table Position | 1172 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Diffusion |
| Series Description | composed_DWI |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|-------------|
| Adjustment Strategy | SliceAdjust |
| B0 Shim | Whole Body |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

Sequence - Part 1

| | |
|-------------------|------|
| Free Echo Spacing | Off |
| Optimization | None |
| EPI Factor | 108 |

Sequence - Part 2

| | |
|------------------|----------|
| Introduction | Off |
| Phase Correction | External |

System - Adjust Volume

| | |
|-------------|----------------------|
| Position | R1.3 A7.0 F1172.0 mm |
| Orientation | Transversal |
| Rotation | 90.00 deg |
| R >> L | 280 mm |
| A >> P | 347 mm |
| F >> H | 200 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 3.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 5880.0 ms |
| Concatenations | 1 |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Diff

| | |
|--------------------------|-----------------------|
| Diffusion Mode | 3-Scan Trace |
| Diff. Directions | 3 |
| Diffusion Scheme | Bipolar |
| Diff. Weightings | 3 |
| b-value 1 | 50 s/mm ² |
| b-value 2 | 600 s/mm ² |
| b-value 3 | 900 s/mm ² |
| Averages 1 | 3 |
| Averages 2 | 3 |
| Averages 3 | 6 |
| Dynamic Field Correction | Off |
| Invert Gray Scale | Off |
| Diff. Weighted Images | Off |
| Trace Weighted Images | On |
| Tensor | Off |
| FA Maps | Off |
| ADC Maps | On |
| Exponential ADC Maps | Off |
| b-value >= | 0 s/mm ² |
| ADC Noise Threshold | 0 |
| Noise Masking | Off |
| Calculated Image | Off |

Sequence - Part 1

| | |
|---------------|------------|
| Sequence Name | epir |
| Excitation | Standard |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Bandwidth | 1964 Hz/Px |
| Echo Spacing | 0.57 ms |

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\t1_fl3d_Dixon_Caipi_BH_tra *

TA: 19 sec Coil Selection: Auto Voxel Size: 0.8x0.8x5.0 mm³ Acc.: 4 Rel. SNR: 1.00 | Substep: 1/7

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | On |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | Off |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|--------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 20 % |
| Position | R1.3 A7.0 H28.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 44 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 27.3 % |
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 7.1 ms |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | HE1-4;NE2 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 7.1 ms |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| Flip Angle | 20 deg |
| Fat-Water Contrast | Dixon |
| Lines per Shot | 56 |
| Contrasts | 2 |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|------------------------|------------------|
| Dynamic Mode | Standard |
| Temporal Interpolation | 1 |
| Measurements | 1 |
| Multiple Series | Each Measurement |
| 3D Reordering | Standard |
| Reordering | Linear |
| Time to Center | 10.7 s |
| Burn Time to Center | Off |

Resolution - Common

| | |
|-----------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |

Resolution - Common

| | |
|------------------|-----------|
| Base Resolution | 256 |
| Phase Resolution | 85 % |
| Slice Resolution | 100 % |
| Trajectory | Cartesian |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | CAIPIRINHA |
| CAIPIRINHA Mode | Free |
| Total Factor | 4 |
| Reference Scans | GRE/Separate |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 24 |
| Acceleration Factor 3D | 2 |
| Reference Lines 3D | 24 |
| Reordering Shift 3D | 1 |
| Phase Partial Fourier | Off |
| Slice Partial Fourier | Off |
| Asymmetric Echo | Weak |
| Elliptical Scanning | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| POCS | Off |
| Distortion Correction | 3D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|--------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 20 % |
| Position | R1.3 A7.0 H28.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 44 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 27.3 % |
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 7.1 ms |
| Series | Ascending |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|--------------------|
| Slab Group | 1 |
| Position | R1.3 A7.0 H28.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | R1.3 A7.0 H28.0 |
| R | 1.3 mm |
| A | 7.0 mm |
| H | 28.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Saturation

| | |
|--------------------|--------------|
| Special Saturation | Parallel F/H |
| Gap | 10.00 mm |
| Thickness | 50.00 mm |

Geometry - Tim Planning Suite

| | |
|---------------------|------------------|
| Set-n-Go Protocol | On |
| Table Position | 28 mm |
| Table Position | H |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T1Dixon |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|--------------------|
| Position | R1.3 A7.0 H28.0 mm |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 323 mm |
| R >> L | 430 mm |
| F >> H | 220 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 5.000 |

Physio - PACE

| | |
|----------------|-------------|
| Resp. Control | Breath-hold |
| Concatenations | 1 |

Inline - Dynamic

| | |
|------------------------|------------------|
| Dynamic Mode | Standard |
| Temporal Interpolation | 1 |
| Flip Angle | 20 deg |
| Measurements | 1 |
| Multiple Series | Each Measurement |
| 3D Reordering | Standard |
| Time to Center | 10.7 s |
| Burn Time to Center | Off |

Inline - Liver

| | |
|----------------------|-----|
| Liver Registration | Off |
| Save Original Images | On |
| Dixon Evaluation | Off |
| Fat Fraction (2pt) | Off |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|---------|
| Save Original Images | On |
| Contrasts | 2 |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| TR | 7.1 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Soft Tissue

| | |
|--------------|-----|
| Wash-in | Off |
| Wash-out | Off |
| TTP | Off |
| PEI | Off |
| MIP Time | Off |
| Measurements | 1 |

Inline - Composing

| | |
|---------------------|------------------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T1Dixon |

Sequence - Part 1

| | |
|-----------------|-----------|
| Sequence Name | fl |
| Dimension | 3D |
| Excitation | Slab-sel. |
| RF Pulse Type | Fast |
| Readout Mode | Monopolar |
| Gradient Mode | Fast |
| Reordering | Linear |
| Bandwidth | 400 Hz/Px |
| Asymmetric Echo | Weak |
| Optimization | In Phase |

Sequence - Part 2

| | |
|-------------------------|-----|
| Introduction | Off |
| RF Spoiling | On |
| Incr. Gradient Spoiling | Off |

Sequence - Assistant

| | |
|---------------|-----|
| SAR Assistant | Off |
|---------------|-----|

Sequence - Assistant

| | |
|--------------|----------|
| Optimization | In Phase |
|--------------|----------|

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\t1_fl3d_Dixon_Caipi_BH_tra *

TA: 19 sec Coil Selection: Auto Voxel Size: 0.8×0.8×5.0 mm³ Acc.: 4 Rel. SNR: 1.00 | Substep: 2/7

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | On |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | Off |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|---------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 20 % |
| Position | R1.3 A7.0 F172.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 44 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 27.3 % |
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 7.1 ms |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO1;NE1,2;SP1,2 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 7.1 ms |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| Flip Angle | 20 deg |
| Fat-Water Contrast | Dixon |
| Lines per Shot | 56 |
| Contrasts | 2 |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|------------------------|------------------|
| Dynamic Mode | Standard |
| Temporal Interpolation | 1 |
| Measurements | 1 |
| Multiple Series | Each Measurement |
| 3D Reordering | Standard |
| Reordering | Linear |
| Time to Center | 10.7 s |
| Burn Time to Center | Off |

Resolution - Common

| | |
|-----------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |

Resolution - Common

| | |
|------------------|-----------|
| Base Resolution | 256 |
| Phase Resolution | 85 % |
| Slice Resolution | 100 % |
| Trajectory | Cartesian |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | CAIPIRINHA |
| CAIPIRINHA Mode | Free |
| Total Factor | 4 |
| Reference Scans | GRE/Separate |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 24 |
| Acceleration Factor 3D | 2 |
| Reference Lines 3D | 24 |
| Reordering Shift 3D | 1 |
| Phase Partial Fourier | Off |
| Slice Partial Fourier | Off |
| Asymmetric Echo | Weak |
| Elliptical Scanning | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| POCS | Off |
| Distortion Correction | 3D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|---------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 20 % |
| Position | R1.3 A7.0 F172.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 44 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 27.3 % |
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 7.1 ms |
| Series | Ascending |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slab Group | 1 |
| Position | R1.3 A7.0 F172.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L1.9 P0.0 H100.0 |
| L | 1.9 mm |
| A | 0.0 mm |
| F | 100.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Saturation

| | |
|--------------------|--------------|
| Special Saturation | Parallel F/H |
| Gap | 10.00 mm |
| Thickness | 50.00 mm |

Geometry - Tim Planning Suite

| | |
|---------------------|------------------|
| Set-n-Go Protocol | On |
| Table Position | 172 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T1Dixon |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|---------------------|
| Position | R1.3 A7.0 F172.0 mm |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 323 mm |
| R >> L | 430 mm |
| F >> H | 220 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 5.000 |

Physio - PACE

| | |
|----------------|-------------|
| Resp. Control | Breath-hold |
| Concatenations | 1 |

Inline - Dynamic

| | |
|------------------------|------------------|
| Dynamic Mode | Standard |
| Temporal Interpolation | 1 |
| Flip Angle | 20 deg |
| Measurements | 1 |
| Multiple Series | Each Measurement |
| 3D Reordering | Standard |
| Time to Center | 10.7 s |
| Burn Time to Center | Off |

Inline - Liver

| | |
|----------------------|-----|
| Liver Registration | Off |
| Save Original Images | On |
| Dixon Evaluation | Off |
| Fat Fraction (2pt) | Off |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|---------|
| Save Original Images | On |
| Contrasts | 2 |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| TR | 7.1 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Soft Tissue

| | |
|--------------|-----|
| Wash-in | Off |
| Wash-out | Off |
| TTP | Off |
| PEI | Off |
| MIP Time | Off |
| Measurements | 1 |

Inline - Composing

| | |
|---------------------|------------------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T1Dixon |

Sequence - Part 1

| | |
|-----------------|-----------|
| Sequence Name | fl |
| Dimension | 3D |
| Excitation | Slab-sel. |
| RF Pulse Type | Fast |
| Readout Mode | Monopolar |
| Gradient Mode | Fast |
| Reordering | Linear |
| Bandwidth | 400 Hz/Px |
| Asymmetric Echo | Weak |
| Optimization | In Phase |

Sequence - Part 2

| | |
|-------------------------|-----|
| Introduction | Off |
| RF Spoiling | On |
| Incr. Gradient Spoiling | Off |

Sequence - Assistant

| | |
|---------------|-----|
| SAR Assistant | Off |
|---------------|-----|

Sequence - Assistant

| | |
|--------------|----------|
| Optimization | In Phase |
|--------------|----------|

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\t1_fl3d_Dixon_Caipi_BH_tra *

TA: 19 sec Coil Selection: Auto Voxel Size: 0.8x0.8x5.0 mm³ Acc.: 4 Rel. SNR: 1.00 | Substep: 3/7

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | On |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | Off |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|---------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 20 % |
| Position | R1.3 A7.0 F372.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 44 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 27.3 % |
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 7.1 ms |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO1-3;SP2,3 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 7.1 ms |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| Flip Angle | 20 deg |
| Fat-Water Contrast | Dixon |
| Lines per Shot | 56 |
| Contrasts | 2 |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|------------------------|------------------|
| Dynamic Mode | Standard |
| Temporal Interpolation | 1 |
| Measurements | 1 |
| Multiple Series | Each Measurement |
| 3D Reordering | Standard |
| Reordering | Linear |
| Time to Center | 10.7 s |
| Burn Time to Center | Off |

Resolution - Common

| | |
|-----------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |

Resolution - Common

| | |
|------------------|-----------|
| Base Resolution | 256 |
| Phase Resolution | 85 % |
| Slice Resolution | 100 % |
| Trajectory | Cartesian |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | CAIPIRINHA |
| CAIPIRINHA Mode | Free |
| Total Factor | 4 |
| Reference Scans | GRE/Separate |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 24 |
| Acceleration Factor 3D | 2 |
| Reference Lines 3D | 24 |
| Reordering Shift 3D | 1 |
| Phase Partial Fourier | Off |
| Slice Partial Fourier | Off |
| Asymmetric Echo | Weak |
| Elliptical Scanning | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| POCS | Off |
| Distortion Correction | 3D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|---------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 20 % |
| Position | R1.3 A7.0 F372.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 44 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 27.3 % |
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 7.1 ms |
| Series | Ascending |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slab Group | 1 |
| Position | R1.3 A7.0 F372.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L1.9 P0.0 H100.0 |
| L | 1.9 mm |
| A | 0.0 mm |
| F | 100.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Saturation

| | |
|--------------------|--------------|
| Special Saturation | Parallel F/H |
| Gap | 10.00 mm |
| Thickness | 50.00 mm |

Geometry - Tim Planning Suite

| | |
|---------------------|------------------|
| Set-n-Go Protocol | On |
| Table Position | 372 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T1Dixon |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|---------------------|
| Position | R1.3 A7.0 F372.0 mm |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 323 mm |
| R >> L | 430 mm |
| F >> H | 220 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 5.000 |

Physio - PACE

| | |
|----------------|-------------|
| Resp. Control | Breath-hold |
| Concatenations | 1 |

Inline - Dynamic

| | |
|------------------------|------------------|
| Dynamic Mode | Standard |
| Temporal Interpolation | 1 |
| Flip Angle | 20 deg |
| Measurements | 1 |
| Multiple Series | Each Measurement |
| 3D Reordering | Standard |
| Time to Center | 10.7 s |
| Burn Time to Center | Off |

Inline - Liver

| | |
|----------------------|-----|
| Liver Registration | Off |
| Save Original Images | On |
| Dixon Evaluation | Off |
| Fat Fraction (2pt) | Off |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|---------|
| Save Original Images | On |
| Contrasts | 2 |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| TR | 7.1 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Soft Tissue

| | |
|--------------|-----|
| Wash-in | Off |
| Wash-out | Off |
| TTP | Off |
| PEI | Off |
| MIP Time | Off |
| Measurements | 1 |

Inline - Composing

| | |
|---------------------|------------------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T1Dixon |

Sequence - Part 1

| | |
|-----------------|-----------|
| Sequence Name | fl |
| Dimension | 3D |
| Excitation | Slab-sel. |
| RF Pulse Type | Fast |
| Readout Mode | Monopolar |
| Gradient Mode | Fast |
| Reordering | Linear |
| Bandwidth | 400 Hz/Px |
| Asymmetric Echo | Weak |
| Optimization | In Phase |

Sequence - Part 2

| | |
|-------------------------|-----|
| Introduction | Off |
| RF Spoiling | On |
| Incr. Gradient Spoiling | Off |

Sequence - Assistant

| | |
|---------------|-----|
| SAR Assistant | Off |
|---------------|-----|

Sequence - Assistant

| | |
|--------------|----------|
| Optimization | In Phase |
|--------------|----------|

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\t1_fl3d_Dixon_Caipi_BH_tra *

TA: 19 sec Coil Selection: Auto Voxel Size: 0.8×0.8×5.0 mm³ Acc.: 4 Rel. SNR: 1.00 | Substep: 4/7

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | On |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | Off |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|---------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 20 % |
| Position | R1.3 A7.0 F572.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 44 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 27.3 % |
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 7.1 ms |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO3;BO1,2;SP3-5 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 7.1 ms |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| Flip Angle | 20 deg |
| Fat-Water Contrast | Dixon |
| Lines per Shot | 56 |
| Contrasts | 2 |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|------------------------|------------------|
| Dynamic Mode | Standard |
| Temporal Interpolation | 1 |
| Measurements | 1 |
| Multiple Series | Each Measurement |
| 3D Reordering | Standard |
| Reordering | Linear |
| Time to Center | 10.7 s |
| Burn Time to Center | Off |

Resolution - Common

| | |
|-----------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |

Resolution - Common

| | |
|------------------|-----------|
| Base Resolution | 256 |
| Phase Resolution | 85 % |
| Slice Resolution | 100 % |
| Trajectory | Cartesian |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | CAIPIRINHA |
| CAIPIRINHA Mode | Free |
| Total Factor | 4 |
| Reference Scans | GRE/Separate |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 24 |
| Acceleration Factor 3D | 2 |
| Reference Lines 3D | 24 |
| Reordering Shift 3D | 1 |
| Phase Partial Fourier | Off |
| Slice Partial Fourier | Off |
| Asymmetric Echo | Weak |
| Elliptical Scanning | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| POCS | Off |
| Distortion Correction | 3D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|---------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 20 % |
| Position | R1.3 A7.0 F572.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 44 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 27.3 % |
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 7.1 ms |
| Series | Ascending |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slab Group | 1 |
| Position | R1.3 A7.0 F572.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L1.9 P0.0 H100.0 |
| L | 1.9 mm |
| A | 0.0 mm |
| F | 100.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Saturation

| | |
|--------------------|--------------|
| Special Saturation | Parallel F/H |
| Gap | 10.00 mm |
| Thickness | 50.00 mm |

Geometry - Tim Planning Suite

| | |
|---------------------|------------------|
| Set-n-Go Protocol | On |
| Table Position | 572 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T1Dixon |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|---------------------|
| Position | R1.3 A7.0 F572.0 mm |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 323 mm |
| R >> L | 430 mm |
| F >> H | 220 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 5.000 |

Physio - PACE

| | |
|----------------|-------------|
| Resp. Control | Breath-hold |
| Concatenations | 1 |

Inline - Dynamic

| | |
|------------------------|------------------|
| Dynamic Mode | Standard |
| Temporal Interpolation | 1 |
| Flip Angle | 20 deg |
| Measurements | 1 |
| Multiple Series | Each Measurement |
| 3D Reordering | Standard |
| Time to Center | 10.7 s |
| Burn Time to Center | Off |

Inline - Liver

| | |
|----------------------|-----|
| Liver Registration | Off |
| Save Original Images | On |
| Dixon Evaluation | Off |
| Fat Fraction (2pt) | Off |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|---------|
| Save Original Images | On |
| Contrasts | 2 |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| TR | 7.1 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Soft Tissue

| | |
|--------------|-----|
| Wash-in | Off |
| Wash-out | Off |
| TTP | Off |
| PEI | Off |
| MIP Time | Off |
| Measurements | 1 |

Inline - Composing

| | |
|---------------------|------------------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T1Dixon |

Sequence - Part 1

| | |
|-----------------|-----------|
| Sequence Name | fl |
| Dimension | 3D |
| Excitation | Slab-sel. |
| RF Pulse Type | Fast |
| Readout Mode | Monopolar |
| Gradient Mode | Fast |
| Reordering | Linear |
| Bandwidth | 400 Hz/Px |
| Asymmetric Echo | Weak |
| Optimization | In Phase |

Sequence - Part 2

| | |
|-------------------------|-----|
| Introduction | Off |
| RF Spoiling | On |
| Incr. Gradient Spoiling | Off |

Sequence - Assistant

| | |
|---------------|-----|
| SAR Assistant | Off |
|---------------|-----|

Sequence - Assistant

| | |
|--------------|----------|
| Optimization | In Phase |
|--------------|----------|

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\t1_fl3d_Dixon_Caipi_BH_tra *

TA: 19 sec Coil Selection: Auto Voxel Size: 0.8x0.8x5.0 mm³ Acc.: 4 Rel. SNR: 1.00 | Substep: 5/7

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | On |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | Off |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|---------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 20 % |
| Position | R1.3 A7.0 F772.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 44 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 27.3 % |
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 7.1 ms |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO2,3;SP5,6 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 7.1 ms |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| Flip Angle | 20 deg |
| Fat-Water Contrast | Dixon |
| Lines per Shot | 56 |
| Contrasts | 2 |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|------------------------|------------------|
| Dynamic Mode | Standard |
| Temporal Interpolation | 1 |
| Measurements | 1 |
| Multiple Series | Each Measurement |
| 3D Reordering | Standard |
| Reordering | Linear |
| Time to Center | 10.7 s |
| Burn Time to Center | Off |

Resolution - Common

| | |
|-----------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |

Resolution - Common

| | |
|------------------|-----------|
| Base Resolution | 256 |
| Phase Resolution | 85 % |
| Slice Resolution | 100 % |
| Trajectory | Cartesian |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | CAIPIRINHA |
| CAIPIRINHA Mode | Free |
| Total Factor | 4 |
| Reference Scans | GRE/Separate |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 24 |
| Acceleration Factor 3D | 2 |
| Reference Lines 3D | 24 |
| Reordering Shift 3D | 1 |
| Phase Partial Fourier | Off |
| Slice Partial Fourier | Off |
| Asymmetric Echo | Weak |
| Elliptical Scanning | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| POCS | Off |
| Distortion Correction | 3D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|---------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 20 % |
| Position | R1.3 A7.0 F772.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 44 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 27.3 % |
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 7.1 ms |
| Series | Ascending |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slab Group | 1 |
| Position | R1.3 A7.0 F772.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L1.9 P0.0 H100.0 |
| L | 1.9 mm |
| A | 0.0 mm |
| F | 100.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Saturation

| | |
|--------------------|--------------|
| Special Saturation | Parallel F/H |
| Gap | 10.00 mm |
| Thickness | 50.00 mm |

Geometry - Tim Planning Suite

| | |
|---------------------|------------------|
| Set-n-Go Protocol | On |
| Table Position | 772 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T1Dixon |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|---------------------|
| Position | R1.3 A7.0 F772.0 mm |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 323 mm |
| R >> L | 430 mm |
| F >> H | 220 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 5.000 |

Physio - PACE

| | |
|----------------|-------------|
| Resp. Control | Breath-hold |
| Concatenations | 1 |

Inline - Dynamic

| | |
|------------------------|------------------|
| Dynamic Mode | Standard |
| Temporal Interpolation | 1 |
| Flip Angle | 20 deg |
| Measurements | 1 |
| Multiple Series | Each Measurement |
| 3D Reordering | Standard |
| Time to Center | 10.7 s |
| Burn Time to Center | Off |

Inline - Liver

| | |
|----------------------|-----|
| Liver Registration | Off |
| Save Original Images | On |
| Dixon Evaluation | Off |
| Fat Fraction (2pt) | Off |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|---------|
| Save Original Images | On |
| Contrasts | 2 |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| TR | 7.1 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Soft Tissue

| | |
|--------------|-----|
| Wash-in | Off |
| Wash-out | Off |
| TTP | Off |
| PEI | Off |
| MIP Time | Off |
| Measurements | 1 |

Inline - Composing

| | |
|---------------------|------------------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T1Dixon |

Sequence - Part 1

| | |
|-----------------|-----------|
| Sequence Name | fl |
| Dimension | 3D |
| Excitation | Slab-sel. |
| RF Pulse Type | Fast |
| Readout Mode | Monopolar |
| Gradient Mode | Fast |
| Reordering | Linear |
| Bandwidth | 400 Hz/Px |
| Asymmetric Echo | Weak |
| Optimization | In Phase |

Sequence - Part 2

| | |
|-------------------------|-----|
| Introduction | Off |
| RF Spoiling | On |
| Incr. Gradient Spoiling | Off |

Sequence - Assistant

| | |
|---------------|-----|
| SAR Assistant | Off |
|---------------|-----|

Sequence - Assistant

| | |
|--------------|----------|
| Optimization | In Phase |
|--------------|----------|

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\t1_fl3d_Dixon_Caipi_BH_tra *

TA: 19 sec Coil Selection: Auto Voxel Size: 0.8×0.8×5.0 mm³ Acc.: 4 Rel. SNR: 1.00 | Substep: 6/7

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | On |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | Off |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|---------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 20 % |
| Position | R1.3 A7.0 F972.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 44 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 27.3 % |
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 7.1 ms |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO2,3;HE1-4 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 7.1 ms |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| Flip Angle | 20 deg |
| Fat-Water Contrast | Dixon |
| Lines per Shot | 56 |
| Contrasts | 2 |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|------------------------|------------------|
| Dynamic Mode | Standard |
| Temporal Interpolation | 1 |
| Measurements | 1 |
| Multiple Series | Each Measurement |
| 3D Reordering | Standard |
| Reordering | Linear |
| Time to Center | 10.7 s |
| Burn Time to Center | Off |

Resolution - Common

| | |
|-----------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |

Resolution - Common

| | |
|------------------|-----------|
| Base Resolution | 256 |
| Phase Resolution | 85 % |
| Slice Resolution | 100 % |
| Trajectory | Cartesian |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | CAIPIRINHA |
| CAIPIRINHA Mode | Free |
| Total Factor | 4 |
| Reference Scans | GRE/Separate |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 24 |
| Acceleration Factor 3D | 2 |
| Reference Lines 3D | 24 |
| Reordering Shift 3D | 1 |
| Phase Partial Fourier | Off |
| Slice Partial Fourier | Off |
| Asymmetric Echo | Weak |
| Elliptical Scanning | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| POCS | Off |
| Distortion Correction | 3D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|---------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 20 % |
| Position | R1.3 A7.0 F972.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 44 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 27.3 % |
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 7.1 ms |
| Series | Ascending |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slab Group | 1 |
| Position | R1.3 A7.0 F972.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L1.9 P0.0 H100.0 |
| L | 1.9 mm |
| A | 0.0 mm |
| F | 100.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Saturation

| | |
|--------------------|--------------|
| Special Saturation | Parallel F/H |
| Gap | 10.00 mm |
| Thickness | 50.00 mm |

Geometry - Tim Planning Suite

| | |
|---------------------|------------------|
| Set-n-Go Protocol | On |
| Table Position | 972 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T1Dixon |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|---------------------|
| Position | R1.3 A7.0 F972.0 mm |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 323 mm |
| R >> L | 430 mm |
| F >> H | 220 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 5.000 |

Physio - PACE

| | |
|----------------|-------------|
| Resp. Control | Breath-hold |
| Concatenations | 1 |

Inline - Dynamic

| | |
|------------------------|------------------|
| Dynamic Mode | Standard |
| Temporal Interpolation | 1 |
| Flip Angle | 20 deg |
| Measurements | 1 |
| Multiple Series | Each Measurement |
| 3D Reordering | Standard |
| Time to Center | 10.7 s |
| Burn Time to Center | Off |

Inline - Liver

| | |
|----------------------|-----|
| Liver Registration | Off |
| Save Original Images | On |
| Dixon Evaluation | Off |
| Fat Fraction (2pt) | Off |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|---------|
| Save Original Images | On |
| Contrasts | 2 |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| TR | 7.1 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Soft Tissue

| | |
|--------------|-----|
| Wash-in | Off |
| Wash-out | Off |
| TTP | Off |
| PEI | Off |
| MIP Time | Off |
| Measurements | 1 |

Inline - Composing

| | |
|---------------------|------------------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T1Dixon |

Sequence - Part 1

| | |
|-----------------|-----------|
| Sequence Name | fl |
| Dimension | 3D |
| Excitation | Slab-sel. |
| RF Pulse Type | Fast |
| Readout Mode | Monopolar |
| Gradient Mode | Fast |
| Reordering | Linear |
| Bandwidth | 400 Hz/Px |
| Asymmetric Echo | Weak |
| Optimization | In Phase |

Sequence - Part 2

| | |
|-------------------------|-----|
| Introduction | Off |
| RF Spoiling | On |
| Incr. Gradient Spoiling | Off |

Sequence - Assistant

| | |
|---------------|-----|
| SAR Assistant | Off |
|---------------|-----|

Sequence - Assistant

| | |
|--------------|----------|
| Optimization | In Phase |
|--------------|----------|

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\t1_fl3d_Dixon_Caipi_BH_tra *

TA: 19 sec Coil Selection: Auto Voxel Size: 0.8x0.8x5.0 mm³ Acc.: 4 Rel. SNR: 1.00 | Substep: 7/7

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | On |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | Off |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|-----------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 20 % |
| Position | R1.3 A7.0 F1172.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 44 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 27.3 % |
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 7.1 ms |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO2,3;HE3,4;NE1,2;SP1 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 7.1 ms |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| Flip Angle | 20 deg |
| Fat-Water Contrast | Dixon |
| Lines per Shot | 56 |
| Contrasts | 2 |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|------------------------|------------------|
| Dynamic Mode | Standard |
| Temporal Interpolation | 1 |
| Measurements | 1 |
| Multiple Series | Each Measurement |
| 3D Reordering | Standard |
| Reordering | Linear |
| Time to Center | 10.7 s |
| Burn Time to Center | Off |

Resolution - Common

| | |
|-----------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |

Resolution - Common

| | |
|------------------|-----------|
| Base Resolution | 256 |
| Phase Resolution | 85 % |
| Slice Resolution | 100 % |
| Trajectory | Cartesian |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|--------------|
| Acceleration mode | CAIPIRINHA |
| CAIPIRINHA Mode | Free |
| Total Factor | 4 |
| Reference Scans | GRE/Separate |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 24 |
| Acceleration Factor 3D | 2 |
| Reference Lines 3D | 24 |
| Reordering Shift 3D | 1 |
| Phase Partial Fourier | Off |
| Slice Partial Fourier | Off |
| Asymmetric Echo | Weak |
| Elliptical Scanning | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| POCS | Off |
| Distortion Correction | 3D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|----------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 20 % |
| Position | R1.3 A7.0 F1172.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 44 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 27.3 % |
| FoV Read | 430 mm |
| FoV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 7.1 ms |
| Series | Ascending |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|----------------------|
| Slab Group | 1 |
| Position | R1.3 A7.0 F1172.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L1.9 P0.0 H100.0 |
| L | 1.9 mm |
| A | 0.0 mm |
| F | 100.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Saturation

| | |
|--------------------|--------------|
| Special Saturation | Parallel F/H |
| Gap | 10.00 mm |
| Thickness | 50.00 mm |

Geometry - Tim Planning Suite

| | |
|---------------------|------------------|
| Set-n-Go Protocol | On |
| Table Position | 1172 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T1Dixon |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|----------------------|
| Position | R1.3 A7.0 F1172.0 mm |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 323 mm |
| R >> L | 430 mm |
| F >> H | 220 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 5.000 |

Physio - PACE

| | |
|----------------|-------------|
| Resp. Control | Breath-hold |
| Concatenations | 1 |

Inline - Dynamic

| | |
|------------------------|------------------|
| Dynamic Mode | Standard |
| Temporal Interpolation | 1 |
| Flip Angle | 20 deg |
| Measurements | 1 |
| Multiple Series | Each Measurement |
| 3D Reordering | Standard |
| Time to Center | 10.7 s |
| Burn Time to Center | Off |

Inline - Liver

| | |
|----------------------|-----|
| Liver Registration | Off |
| Save Original Images | On |
| Dixon Evaluation | Off |
| Fat Fraction (2pt) | Off |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|---------|
| Save Original Images | On |
| Contrasts | 2 |
| TE 1 | 2.39 ms |
| TE 2 | 4.77 ms |
| TR | 7.1 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Soft Tissue

| | |
|--------------|-----|
| Wash-in | Off |
| Wash-out | Off |
| TTP | Off |
| PEI | Off |
| MIP Time | Off |
| Measurements | 1 |

Inline - Composing

| | |
|---------------------|------------------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T1Dixon |

Sequence - Part 1

| | |
|-----------------|-----------|
| Sequence Name | fl |
| Dimension | 3D |
| Excitation | Slab-sel. |
| RF Pulse Type | Fast |
| Readout Mode | Monopolar |
| Gradient Mode | Fast |
| Reordering | Linear |
| Bandwidth | 400 Hz/Px |
| Asymmetric Echo | Weak |
| Optimization | In Phase |

Sequence - Part 2

| | |
|-------------------------|-----|
| Introduction | Off |
| RF Spoiling | On |
| Incr. Gradient Spoiling | Off |

Sequence - Assistant

| | |
|---------------|-----|
| SAR Assistant | Off |
|---------------|-----|

Sequence - Assistant

| | |
|--------------|----------|
| Optimization | In Phase |
|--------------|----------|

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\t2_haste_tra *

TA: 45 sec Coil Selection: Auto Voxel Size: 0.8×0.8×5.0 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 1/7**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | 3rd Segment |
| Inline Movie | Off |

Routine

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 H28.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| TR | 1000.0 ms |
| TE | 82.00 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | HE1-4;NE2 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 1000.0 ms |
| TE | 82.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle | 180 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|----------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Off |

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 256 |
| Phase Resolution | 100 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|-------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | GRE/Separate |

Resolution - Acceleration

| | |
|------------------------|-----|
| Acceleration Factor PE | 2 |
| Reference Lines PE | 30 |
| Phase Partial Fourier | 6/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 H28.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| TR | 1000.0 ms |
| Multi-Slice Mode | Single Shot |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Position | R1.3 A7.0 H28.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | R1.3 A7.0 H28.0 |
| R | 1.3 mm |
| A | 7.0 mm |
| H | 28.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|--------------|
| Special Saturation | Parallel F/H |
| Gap | 20.00 mm |
| Thickness | 60.00 mm |

Geometry - Tim Planning Suite

| | |
|---------------------|-------------------|
| Set-n-Go Protocol | On |
| Table Position | 28 mm |
| Table Position | H |
| Inline Composing | On |
| Normalize | Weak |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T2 Haste |

System - Miscellaneous

| | |
|----------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |

System - Miscellaneous

| | |
|---------------------|------------------|
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|--------------------|
| Position | R1.3 A7.0 H28.0 mm |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 350 mm |
| R >> L | 430 mm |
| F >> H | 200 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 2.500 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 1000.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Phase Resolution | 100 % |
| Dynamic Mode | Standard |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|-----------|
| Magn. Preparation | None |
| Save Original Images | On |
| Contrasts | 1 |
| TE | 82.00 ms |
| TR | 1000.0 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|-------------------|
| Inline Composing | On |
| Normalize | Weak |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T2 Haste |

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | h |
| Dimension | 2D |
| RF Pulse Type | Fast |
| Gradient Mode | Fast |
| Flow Compensation | None |
| Bandwidth | 501 Hz/Px |
| Echo Spacing | 4.08 ms |
| Turbo Factor | 208 |

Sequence - Part 2

| | |
|--------------|----|
| Introduction | On |
|--------------|----|

Sequence - Assistant

| | |
|----------------|----------------|
| SAR Assistant | TR, Flip Angle |
| Min Flip Angle | 150 deg |
| Max. TR | 1500.0 ms |
| Allowed Delay | 30 s |

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\t2_haste_tra *

TA: 45 sec Coil Selection: Auto Voxel Size: 0.8×0.8×5.0 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 2/7**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | 3rd Segment |
| Inline Movie | Off |

Routine

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F172.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| TR | 1000.0 ms |
| TE | 82.00 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO1;NE1,2;SP1,2 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 1000.0 ms |
| TE | 82.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle | 180 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|----------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Off |

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 256 |
| Phase Resolution | 100 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|-------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | GRE/Separate |

Resolution - Acceleration

| | |
|------------------------|-----|
| Acceleration Factor PE | 2 |
| Reference Lines PE | 30 |
| Phase Partial Fourier | 6/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F172.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| TR | 1000.0 ms |
| Multi-Slice Mode | Single Shot |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Position | R1.3 A7.0 F172.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L1.9 P0.0 H100.0 |
| L | 1.9 mm |
| A | 0.0 mm |
| F | 100.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|--------------|
| Special Saturation | Parallel F/H |
| Gap | 20.00 mm |
| Thickness | 60.00 mm |

Geometry - Tim Planning Suite

| | |
|---------------------|-------------------|
| Set-n-Go Protocol | On |
| Table Position | 172 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Weak |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T2 Haste |

System - Miscellaneous

| | |
|----------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |

System - Miscellaneous

| | |
|---------------------|------------------|
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|---------------------|
| Position | R1.3 A7.0 F172.0 mm |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 350 mm |
| R >> L | 430 mm |
| F >> H | 200 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 2.500 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 1000.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Phase Resolution | 100 % |
| Dynamic Mode | Standard |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|-----------|
| Magn. Preparation | None |
| Save Original Images | On |
| Contrasts | 1 |
| TE | 82.00 ms |
| TR | 1000.0 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|-------------------|
| Inline Composing | On |
| Normalize | Weak |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T2 Haste |

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | h |
| Dimension | 2D |
| RF Pulse Type | Fast |
| Gradient Mode | Fast |
| Flow Compensation | None |
| Bandwidth | 501 Hz/Px |
| Echo Spacing | 4.08 ms |
| Turbo Factor | 208 |

Sequence - Part 2

| | |
|--------------|----|
| Introduction | On |
|--------------|----|

Sequence - Assistant

| | |
|----------------|----------------|
| SAR Assistant | TR, Flip Angle |
| Min Flip Angle | 150 deg |
| Max. TR | 1500.0 ms |
| Allowed Delay | 30 s |

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\t2_haste_tra *

TA: 45 sec Coil Selection: Auto Voxel Size: 0.8×0.8×5.0 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 3/7**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | 3rd Segment |
| Inline Movie | Off |

Routine

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F372.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| TR | 1000.0 ms |
| TE | 82.00 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO1-3;SP2,3 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 1000.0 ms |
| TE | 82.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle | 180 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|----------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Off |

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 256 |
| Phase Resolution | 100 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|-------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | GRE/Separate |

Resolution - Acceleration

| | |
|------------------------|-----|
| Acceleration Factor PE | 2 |
| Reference Lines PE | 30 |
| Phase Partial Fourier | 6/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F372.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| TR | 1000.0 ms |
| Multi-Slice Mode | Single Shot |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Position | R1.3 A7.0 F372.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L1.9 P0.0 H100.0 |
| L | 1.9 mm |
| A | 0.0 mm |
| F | 100.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|--------------|
| Special Saturation | Parallel F/H |
| Gap | 20.00 mm |
| Thickness | 60.00 mm |

Geometry - Tim Planning Suite

| | |
|---------------------|-------------------|
| Set-n-Go Protocol | On |
| Table Position | 372 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Weak |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T2 Haste |

System - Miscellaneous

| | |
|----------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |

System - Miscellaneous

| | |
|---------------------|------------------|
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|---------------------|
| Position | R1.3 A7.0 F372.0 mm |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 350 mm |
| R >> L | 430 mm |
| F >> H | 200 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 2.500 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 1000.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Phase Resolution | 100 % |
| Dynamic Mode | Standard |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|-----------|
| Magn. Preparation | None |
| Save Original Images | On |
| Contrasts | 1 |
| TE | 82.00 ms |
| TR | 1000.0 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|-------------------|
| Inline Composing | On |
| Normalize | Weak |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T2 Haste |

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | h |
| Dimension | 2D |
| RF Pulse Type | Fast |
| Gradient Mode | Fast |
| Flow Compensation | None |
| Bandwidth | 501 Hz/Px |
| Echo Spacing | 4.08 ms |
| Turbo Factor | 208 |

Sequence - Part 2

| | |
|--------------|----|
| Introduction | On |
|--------------|----|

Sequence - Assistant

| | |
|----------------|----------------|
| SAR Assistant | TR, Flip Angle |
| Min Flip Angle | 150 deg |
| Max. TR | 1500.0 ms |
| Allowed Delay | 30 s |

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\t2_haste_tra *

TA: 45 sec Coil Selection: Auto Voxel Size: 0.8×0.8×5.0 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 4/7**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | 3rd Segment |
| Inline Movie | Off |

Routine

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F572.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| TR | 1000.0 ms |
| TE | 82.00 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO3;BO1,2;SP3-5 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 1000.0 ms |
| TE | 82.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle | 180 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|----------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Off |

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 256 |
| Phase Resolution | 100 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|-------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | GRE/Separate |

Resolution - Acceleration

| | |
|------------------------|-----|
| Acceleration Factor PE | 2 |
| Reference Lines PE | 30 |
| Phase Partial Fourier | 6/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F572.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| TR | 1000.0 ms |
| Multi-Slice Mode | Single Shot |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Position | R1.3 A7.0 F572.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L1.9 P0.0 H100.0 |
| L | 1.9 mm |
| A | 0.0 mm |
| F | 100.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|--------------|
| Special Saturation | Parallel F/H |
| Gap | 20.00 mm |
| Thickness | 60.00 mm |

Geometry - Tim Planning Suite

| | |
|---------------------|-------------------|
| Set-n-Go Protocol | On |
| Table Position | 572 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Weak |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T2 Haste |

System - Miscellaneous

| | |
|----------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |

System - Miscellaneous

| | |
|---------------------|------------------|
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|---------------------|
| Position | R1.3 A7.0 F572.0 mm |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 350 mm |
| R >> L | 430 mm |
| F >> H | 200 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 2.500 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 1000.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Phase Resolution | 100 % |
| Dynamic Mode | Standard |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|-----------|
| Magn. Preparation | None |
| Save Original Images | On |
| Contrasts | 1 |
| TE | 82.00 ms |
| TR | 1000.0 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|-------------------|
| Inline Composing | On |
| Normalize | Weak |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T2 Haste |

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | h |
| Dimension | 2D |
| RF Pulse Type | Fast |
| Gradient Mode | Fast |
| Flow Compensation | None |
| Bandwidth | 501 Hz/Px |
| Echo Spacing | 4.08 ms |
| Turbo Factor | 208 |

Sequence - Part 2

| | |
|--------------|----|
| Introduction | On |
|--------------|----|

Sequence - Assistant

| | |
|----------------|----------------|
| SAR Assistant | TR, Flip Angle |
| Min Flip Angle | 150 deg |
| Max. TR | 1500.0 ms |
| Allowed Delay | 30 s |

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\t2_haste_tra *

TA: 45 sec Coil Selection: Auto Voxel Size: 0.8×0.8×5.0 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 5/7**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | 3rd Segment |
| Inline Movie | Off |

Routine

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F772.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| TR | 1000.0 ms |
| TE | 82.00 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO2,3;SP5,6 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 1000.0 ms |
| TE | 82.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle | 180 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|----------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Off |

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 256 |
| Phase Resolution | 100 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|-------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | GRE/Separate |

Resolution - Acceleration

| | |
|------------------------|-----|
| Acceleration Factor PE | 2 |
| Reference Lines PE | 30 |
| Phase Partial Fourier | 6/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F772.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| TR | 1000.0 ms |
| Multi-Slice Mode | Single Shot |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Position | R1.3 A7.0 F772.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L1.9 P0.0 H100.0 |
| L | 1.9 mm |
| A | 0.0 mm |
| F | 100.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|--------------|
| Special Saturation | Parallel F/H |
| Gap | 20.00 mm |
| Thickness | 60.00 mm |

Geometry - Tim Planning Suite

| | |
|---------------------|-------------------|
| Set-n-Go Protocol | On |
| Table Position | 772 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Weak |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T2 Haste |

System - Miscellaneous

| | |
|----------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |

System - Miscellaneous

| | |
|---------------------|------------------|
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|---------------------|
| Position | R1.3 A7.0 F772.0 mm |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 350 mm |
| R >> L | 430 mm |
| F >> H | 200 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 2.500 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 1000.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Phase Resolution | 100 % |
| Dynamic Mode | Standard |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|-----------|
| Magn. Preparation | None |
| Save Original Images | On |
| Contrasts | 1 |
| TE | 82.00 ms |
| TR | 1000.0 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|-------------------|
| Inline Composing | On |
| Normalize | Weak |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T2 Haste |

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | h |
| Dimension | 2D |
| RF Pulse Type | Fast |
| Gradient Mode | Fast |
| Flow Compensation | None |
| Bandwidth | 501 Hz/Px |
| Echo Spacing | 4.08 ms |
| Turbo Factor | 208 |

Sequence - Part 2

| | |
|--------------|----|
| Introduction | On |
|--------------|----|

Sequence - Assistant

| | |
|----------------|----------------|
| SAR Assistant | TR, Flip Angle |
| Min Flip Angle | 150 deg |
| Max. TR | 1500.0 ms |
| Allowed Delay | 30 s |

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\t2_haste_tra *

TA: 45 sec Coil Selection: Auto Voxel Size: 0.8×0.8×5.0 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 6/7**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | 3rd Segment |
| Inline Movie | Off |

Routine

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F972.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| TR | 1000.0 ms |
| TE | 82.00 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO2,3;HE1-4 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 1000.0 ms |
| TE | 82.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle | 180 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|----------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Off |

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 256 |
| Phase Resolution | 100 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|-------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | GRE/Separate |

Resolution - Acceleration

| | |
|------------------------|-----|
| Acceleration Factor PE | 2 |
| Reference Lines PE | 30 |
| Phase Partial Fourier | 6/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F972.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| TR | 1000.0 ms |
| Multi-Slice Mode | Single Shot |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Position | R1.3 A7.0 F972.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L1.9 P0.0 H100.0 |
| L | 1.9 mm |
| A | 0.0 mm |
| F | 100.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|--------------|
| Special Saturation | Parallel F/H |
| Gap | 20.00 mm |
| Thickness | 60.00 mm |

Geometry - Tim Planning Suite

| | |
|---------------------|-------------------|
| Set-n-Go Protocol | On |
| Table Position | 972 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Weak |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T2 Haste |

System - Miscellaneous

| | |
|----------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |

System - Miscellaneous

| | |
|---------------------|------------------|
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|---------------------|
| Position | R1.3 A7.0 F972.0 mm |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 350 mm |
| R >> L | 430 mm |
| F >> H | 200 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 2.500 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 1000.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Phase Resolution | 100 % |
| Dynamic Mode | Standard |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|-----------|
| Magn. Preparation | None |
| Save Original Images | On |
| Contrasts | 1 |
| TE | 82.00 ms |
| TR | 1000.0 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|-------------------|
| Inline Composing | On |
| Normalize | Weak |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T2 Haste |

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | h |
| Dimension | 2D |
| RF Pulse Type | Fast |
| Gradient Mode | Fast |
| Flow Compensation | None |
| Bandwidth | 501 Hz/Px |
| Echo Spacing | 4.08 ms |
| Turbo Factor | 208 |

Sequence - Part 2

| | |
|--------------|----|
| Introduction | On |
|--------------|----|

Sequence - Assistant

| | |
|----------------|----------------|
| SAR Assistant | TR, Flip Angle |
| Min Flip Angle | 150 deg |
| Max. TR | 1500.0 ms |
| Allowed Delay | 30 s |

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\t2_haste_tra *

TA: 45 sec Coil Selection: Auto Voxel Size: 0.8×0.8×5.0 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 7/7**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | 3rd Segment |
| Inline Movie | Off |

Routine

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F1172.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| TR | 1000.0 ms |
| TE | 82.00 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO2,3;HE3,4;NE1,2;SP1 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 1000.0 ms |
| TE | 82.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle | 180 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|----------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Off |

Resolution - Common

| | |
|------------------|--------|
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 256 |
| Phase Resolution | 100 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|-------------------|--------------|
| Acceleration mode | GRAPPA |
| Reference Scans | GRE/Separate |

Resolution - Acceleration

| | |
|------------------------|-----|
| Acceleration Factor PE | 2 |
| Reference Lines PE | 30 |
| Phase Partial Fourier | 6/8 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|----------------------|
| Slice Group | 1 |
| Slices | 40 |
| Distance Factor | 0 % |
| Position | R1.3 A7.0 F1172.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Slice Thickness | 5.0 mm |
| TR | 1000.0 ms |
| Multi-Slice Mode | Single Shot |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|----------------------|
| Slice Group | 1 |
| Position | R1.3 A7.0 F1172.0 mm |
| Orientation | Transversal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L1.9 P0.0 H100.0 |
| L | 1.9 mm |
| A | 0.0 mm |
| F | 100.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|--------------|
| Special Saturation | Parallel F/H |
| Gap | 20.00 mm |
| Thickness | 60.00 mm |

Geometry - Tim Planning Suite

| | |
|---------------------|-------------------|
| Set-n-Go Protocol | On |
| Table Position | 1172 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Weak |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T2 Haste |

System - Miscellaneous

| | |
|----------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |

System - Miscellaneous

| | |
|---------------------|------------------|
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|----------------------|
| Position | R1.3 A7.0 F1172.0 mm |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 350 mm |
| R >> L | 430 mm |
| F >> H | 200 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 2.500 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 1000.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FoV Read | 430 mm |
| FoV Phase | 81.3 % |
| Phase Resolution | 100 % |
| Dynamic Mode | Standard |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|-----------|
| Magn. Preparation | None |
| Save Original Images | On |
| Contrasts | 1 |
| TE | 82.00 ms |
| TR | 1000.0 ms |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|-------------------|
| Inline Composing | On |
| Normalize | Weak |
| Save non-normalized | On |
| Composing Function | Adaptive |
| Series Description | composed_T2 Haste |

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | h |
| Dimension | 2D |
| RF Pulse Type | Fast |
| Gradient Mode | Fast |
| Flow Compensation | None |
| Bandwidth | 501 Hz/Px |
| Echo Spacing | 4.08 ms |
| Turbo Factor | 208 |

Sequence - Part 2

| | |
|--------------|----|
| Introduction | On |
|--------------|----|

Sequence - Assistant

| | |
|----------------|----------------|
| SAR Assistant | TR, Flip Angle |
| Min Flip Angle | 150 deg |
| Max. TR | 1500.0 ms |
| Allowed Delay | 30 s |

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\l_t2_tse_sag_p2_C
OMPOSED *

TA: 1:14 min Coil Selection: Auto Voxel Size: 1.0×1.0×4.0 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 1/2

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Resolution - Acceleration

| | |
|------------------------|------------|
| Acceleration mode | GRAPPA |
| Reference Scans | Integrated |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 38 |
| Phase Partial Fourier | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | On |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Routine

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Slices | 17 |
| Distance Factor | 10 % |
| Position | R6.4 A8.1 F89.5 mm |
| Orientation | S > T0.7 |
| Phase Encoding Dir. | H >> F |
| Phase Oversampling | 100 % |
| FoV Read | 440 mm |
| FoV Phase | 100.0 % |
| Slice Thickness | 4.0 mm |
| TR | 3790.0 ms |
| TE | 97.00 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO1,3;BO1-3;SP1-4 |

Geometry - Common

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Slices | 17 |
| Distance Factor | 10 % |
| Position | R6.4 A8.1 F89.5 mm |
| Orientation | S > T0.7 |
| Phase Encoding Dir. | H >> F |
| Phase Oversampling | 100 % |
| FoV Read | 440 mm |
| FoV Phase | 100.0 % |
| Slice Thickness | 4.0 mm |
| TR | 3790.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 3790.0 ms |
| TE | 97.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle | 150 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | Restore |
| Reconstruction | Magnitude |

Geometry - AutoAlign

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Position | R6.4 A8.1 F89.5 mm |
| Orientation | S > T0.7 |
| Phase Encoding Dir. | H >> F |
| AutoAlign | --- |
| Initial Position | R6.4 A8.1 F89.5 |
| R | 6.4 mm |
| A | 8.1 mm |
| F | 89.5 mm |
| Initial Orientation | S > T |
| S > T | 0.70 |
| > C | 0.00 |
| Initial Rotation | 90.00 deg |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Each Measurement |

Geometry - Navigator

Geometry - Saturation

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Resolution - Common

| | |
|------------------|-----------|
| FoV Read | 440 mm |
| FoV Phase | 100.0 % |
| Slice Thickness | 4.0 mm |
| Base Resolution | 448 |
| Phase Resolution | 80 % |
| Trajectory | Cartesian |
| Interpolation | Off |

Geometry - Tim Planning Suite

| | |
|---------------------|-------|
| Set-n-Go Protocol | On |
| Table Position | 89 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |
| Series Description | |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Tune up |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-------------|
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 263 mm |
| R >> L | 350 mm |
| F >> H | 350 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 3790.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|-----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FoV Read | 440 mm |
| FoV Phase | 100.0 % |
| Phase Resolution | 80 % |
| Trajectory | Cartesian |
| Dynamic Mode | Standard |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|----------|
| Magn. Preparation | None |
| Save Original Images | On |
| Contrasts | 1 |
| TE | 97.00 ms |

Inline - Cardiac

| | |
|----|-----------|
| TR | 3790.0 ms |
|----|-----------|

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|-------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |
| Series Description | |

Sequence - Part 1

| | |
|-----------------------|--------------|
| Sequence Name | tseR_rr |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Normal |
| Flow Compensation | Read |
| Bandwidth | 203 Hz/Px |
| Echo Spacing | 9.66 ms |
| Free Echo Spacing | Off |
| Define | Turbo Factor |
| Turbo Factor | 21 |
| Echo Trains per Slice | 18 |

Sequence - Part 2

| | |
|--------------------------|-----------|
| Introduction | On |
| Phase Correction | Automatic |
| Compensate T2 Decay | Off |
| WARP | Off |
| Red. EC Sensitivity | Off |
| Acoustic noise reduction | Off |
| Reduce Motion Sens. | On |

Sequence - Assistant

| | |
|---------------|-----------|
| SAR Assistant | TR |
| Max. TR | 4500.0 ms |
| Allowed Delay | 30 s |

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\l_t2_tse_sag_p2_C
OMPOSED *

TA: 1:14 min Coil Selection: Auto Voxel Size: 1.0×1.0×4.0 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 2/2

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Resolution - Acceleration

| | |
|------------------------|------------|
| Acceleration mode | GRAPPA |
| Reference Scans | Integrated |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 38 |
| Phase Partial Fourier | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | On |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Routine

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 17 |
| Distance Factor | 10 % |
| Position | R1.3 A8.2 F416.8 mm |
| Orientation | S > T-0.6 |
| Phase Encoding Dir. | H >> F |
| Phase Oversampling | 100 % |
| FoV Read | 440 mm |
| FoV Phase | 100.0 % |
| Slice Thickness | 4.0 mm |
| TR | 3790.0 ms |
| TE | 97.00 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO3;BO1-3;SP3-8 |

Geometry - Common

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 17 |
| Distance Factor | 10 % |
| Position | R1.3 A8.2 F416.8 mm |
| Orientation | S > T-0.6 |
| Phase Encoding Dir. | H >> F |
| Phase Oversampling | 100 % |
| FoV Read | 440 mm |
| FoV Phase | 100.0 % |
| Slice Thickness | 4.0 mm |
| TR | 3790.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 3790.0 ms |
| TE | 97.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle | 150 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | Restore |
| Reconstruction | Magnitude |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Position | R1.3 A8.2 F416.8 mm |
| Orientation | S > T-0.6 |
| Phase Encoding Dir. | H >> F |
| AutoAlign | --- |
| Initial Position | Isocenter |
| L | 0.0 mm |
| P | 0.0 mm |
| F | 0.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Each Measurement |

Geometry - Navigator

Geometry - Saturation

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Resolution - Common

| | |
|------------------|-----------|
| FoV Read | 440 mm |
| FoV Phase | 100.0 % |
| Slice Thickness | 4.0 mm |
| Base Resolution | 448 |
| Phase Resolution | 80 % |
| Trajectory | Cartesian |
| Interpolation | Off |

Geometry - Tim Planning Suite

| | |
|---------------------|--------|
| Set-n-Go Protocol | On |
| Table Position | 417 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |
| Series Description | |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Tune up |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-------------|
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 263 mm |
| R >> L | 350 mm |
| F >> H | 350 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 3790.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|-----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FoV Read | 440 mm |
| FoV Phase | 100.0 % |
| Phase Resolution | 80 % |
| Trajectory | Cartesian |
| Dynamic Mode | Standard |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|----------|
| Magn. Preparation | None |
| Save Original Images | On |
| Contrasts | 1 |
| TE | 97.00 ms |

Inline - Cardiac

| | |
|----|-----------|
| TR | 3790.0 ms |
|----|-----------|

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|-------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |
| Series Description | |

Sequence - Part 1

| | |
|-----------------------|--------------|
| Sequence Name | tseR_rr |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Normal |
| Flow Compensation | Read |
| Bandwidth | 203 Hz/Px |
| Echo Spacing | 9.66 ms |
| Free Echo Spacing | Off |
| Define | Turbo Factor |
| Turbo Factor | 21 |
| Echo Trains per Slice | 18 |

Sequence - Part 2

| | |
|--------------------------|-----------|
| Introduction | On |
| Phase Correction | Automatic |
| Compensate T2 Decay | Off |
| WARP | Off |
| Red. EC Sensitivity | Off |
| Acoustic noise reduction | Off |
| Reduce Motion Sens. | On |

Sequence - Assistant

| | |
|---------------|-----------|
| SAR Assistant | TR |
| Max. TR | 4500.0 ms |
| Allowed Delay | 30 s |

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\l_t1_tse_sag_p2_C
OMPOSED *

TA: 1:06 min Coil Selection: Auto Voxel Size: 1.1×1.1×4.0 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 1/2

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Resolution - Acceleration

| | |
|------------------------|------------|
| Acceleration mode | GRAPPA |
| Reference Scans | Integrated |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 24 |
| Phase Partial Fourier | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | On |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Routine

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Slices | 17 |
| Distance Factor | 10 % |
| Position | R6.4 A8.1 F89.5 mm |
| Orientation | S > T0.7 |
| Phase Encoding Dir. | H >> F |
| Phase Oversampling | 100 % |
| FoV Read | 440 mm |
| FoV Phase | 100.0 % |
| Slice Thickness | 4.0 mm |
| TR | 643.0 ms |
| TE | 8.70 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO1,3;BO1-3;SP1-4 |

Geometry - Common

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Slices | 17 |
| Distance Factor | 10 % |
| Position | R6.4 A8.1 F89.5 mm |
| Orientation | S > T0.7 |
| Phase Encoding Dir. | H >> F |
| Phase Oversampling | 100 % |
| FoV Read | 440 mm |
| FoV Phase | 100.0 % |
| Slice Thickness | 4.0 mm |
| TR | 643.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 643.0 ms |
| TE | 8.70 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle | 150 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |
| Reconstruction | Magnitude |

Geometry - AutoAlign

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Position | R6.4 A8.1 F89.5 mm |
| Orientation | S > T0.7 |
| Phase Encoding Dir. | H >> F |
| AutoAlign | --- |
| Initial Position | R6.4 A8.1 F89.5 |
| R | 6.4 mm |
| A | 8.1 mm |
| F | 89.5 mm |
| Initial Orientation | S > T |
| S > T | 0.70 |
| > C | 0.00 |
| Initial Rotation | 90.00 deg |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Each Measurement |

Geometry - Navigator

Geometry - Saturation

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Resolution - Common

| | |
|------------------|-----------|
| FoV Read | 440 mm |
| FoV Phase | 100.0 % |
| Slice Thickness | 4.0 mm |
| Base Resolution | 384 |
| Phase Resolution | 75 % |
| Trajectory | Cartesian |
| Interpolation | Off |

Geometry - Tim Planning Suite

| | |
|---------------------|-------|
| Set-n-Go Protocol | On |
| Table Position | 89 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |
| Series Description | |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Tune up |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-------------|
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 263 mm |
| R >> L | 350 mm |
| F >> H | 350 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|----------|
| 1st Signal/Mode | None |
| TR | 643.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|-----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FoV Read | 440 mm |
| FoV Phase | 100.0 % |
| Phase Resolution | 75 % |
| Trajectory | Cartesian |
| Dynamic Mode | Standard |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|---------|
| Magn. Preparation | None |
| Save Original Images | On |
| Contrasts | 1 |
| TE | 8.70 ms |

Inline - Cardiac

| | |
|----|----------|
| TR | 643.0 ms |
|----|----------|

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|-------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |
| Series Description | |

Sequence - Part 1

| | |
|-----------------------|--------------|
| Sequence Name | tse |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Flow Compensation | None |
| Bandwidth | 224 Hz/Px |
| Echo Spacing | 8.72 ms |
| Free Echo Spacing | Off |
| Define | Turbo Factor |
| Turbo Factor | 3 |
| Echo Trains per Slice | 100 |

Sequence - Part 2

| | |
|--------------------------|-----------|
| Introduction | On |
| Phase Correction | Automatic |
| Compensate T2 Decay | Off |
| WARP | Off |
| Red. EC Sensitivity | Off |
| Acoustic noise reduction | Off |
| Reduce Motion Sens. | On |

Sequence - Assistant

| | |
|----------------|------------|
| SAR Assistant | Flip Angle |
| Min Flip Angle | 130 deg |
| Allowed Delay | 30 s |

\\Physics tree\Export_archive\Whole_Body_Sola\Whole_body_Sola_7_stations\l_t1_tse_sag_p2_C
OMPOSED *

TA: 1:06 min Coil Selection: Auto Voxel Size: 1.1×1.1×4.0 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 2/2

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Resolution - Acceleration

| | |
|------------------------|------------|
| Acceleration mode | GRAPPA |
| Reference Scans | Integrated |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 24 |
| Phase Partial Fourier | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | On |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Routine

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 17 |
| Distance Factor | 10 % |
| Position | R1.3 A8.2 F416.8 mm |
| Orientation | S > T-0.6 |
| Phase Encoding Dir. | H >> F |
| Phase Oversampling | 100 % |
| FoV Read | 440 mm |
| FoV Phase | 100.0 % |
| Slice Thickness | 4.0 mm |
| TR | 643.0 ms |
| TE | 8.70 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |
| Coil Elements | BO3;BO1-3;SP3-8 |

Geometry - Common

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 17 |
| Distance Factor | 10 % |
| Position | R1.3 A8.2 F416.8 mm |
| Orientation | S > T-0.6 |
| Phase Encoding Dir. | H >> F |
| Phase Oversampling | 100 % |
| FoV Read | 440 mm |
| FoV Phase | 100.0 % |
| Slice Thickness | 4.0 mm |
| TR | 643.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 643.0 ms |
| TE | 8.70 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle | 150 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |
| Reconstruction | Magnitude |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Position | R1.3 A8.2 F416.8 mm |
| Orientation | S > T-0.6 |
| Phase Encoding Dir. | H >> F |
| AutoAlign | --- |
| Initial Position | Isocenter |
| L | 0.0 mm |
| P | 0.0 mm |
| F | 0.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Each Measurement |

Geometry - Navigator

Geometry - Saturation

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Resolution - Common

| | |
|------------------|-----------|
| FoV Read | 440 mm |
| FoV Phase | 100.0 % |
| Slice Thickness | 4.0 mm |
| Base Resolution | 384 |
| Phase Resolution | 75 % |
| Trajectory | Cartesian |
| Interpolation | Off |

Geometry - Tim Planning Suite

| | |
|---------------------|--------|
| Set-n-Go Protocol | On |
| Table Position | 417 mm |
| Table Position | F |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |
| Series Description | |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Tune up |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-------------|
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 263 mm |
| R >> L | 350 mm |
| F >> H | 350 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.679606 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Correction Factor | 1.00 |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|----------|
| 1st Signal/Mode | None |
| TR | 643.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|-----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FoV Read | 440 mm |
| FoV Phase | 100.0 % |
| Phase Resolution | 75 % |
| Trajectory | Cartesian |
| Dynamic Mode | Standard |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - Cardiac

| | |
|----------------------|---------|
| Magn. Preparation | None |
| Save Original Images | On |
| Contrasts | 1 |
| TE | 8.70 ms |

Inline - Cardiac

| | |
|----|----------|
| TR | 643.0 ms |
|----|----------|

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|-------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |
| Series Description | |

Sequence - Part 1

| | |
|-----------------------|--------------|
| Sequence Name | tse |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Flow Compensation | None |
| Bandwidth | 224 Hz/Px |
| Echo Spacing | 8.72 ms |
| Free Echo Spacing | Off |
| Define | Turbo Factor |
| Turbo Factor | 3 |
| Echo Trains per Slice | 100 |

Sequence - Part 2

| | |
|--------------------------|-----------|
| Introduction | On |
| Phase Correction | Automatic |
| Compensate T2 Decay | Off |
| WARP | Off |
| Red. EC Sensitivity | Off |
| Acoustic noise reduction | Off |
| Reduce Motion Sens. | On |

Sequence - Assistant

| | |
|----------------|------------|
| SAR Assistant | Flip Angle |
| Min Flip Angle | 130 deg |
| Allowed Delay | 30 s |