

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\UserProtocols\Renzo\VALSALVA_160205\Quin_pilot_250V

TA: 0:41 PAT: Off Voxel size: 1.0x1.0x5.0 mm Rel. SNR: 1.00 SIEMENS: tfl

Properties

| | |
|---|--------|
| Prio Recon | Off |
| Before measurement | |
| After measurement | |
| Load to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Start measurement without further preparation | Off |
| Wait for user to start | Off |
| Start measurements | single |

Routine

| | |
|--------------------|------------------|
| Slice group 1 | |
| Slices | 7 |
| Dist. factor | 80 % |
| Position | L0.0 A18.9 F0.7 |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Slice group 2 | |
| Slices | 3 |
| Dist. factor | 160 % |
| Position | L0.0 A16.2 H45.9 |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Slice group 3 | |
| Slices | 3 |
| Dist. factor | 200 % |
| Position | L0.0 A8.1 H1.7 |
| Orientation | Coronal |
| Phase enc. dir. | R >> L |
| Rotation | 0.00 deg |
| Phase oversampling | 0 % |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 3000 ms |
| TE | 3.17 ms |
| Averages | 1 |
| Concatenations | 13 |
| Filter | None |
| Coil elements | A32 |

Contrast

| | |
|-------------------|------------------|
| TD | 0 ms |
| Magn. preparation | Slice-sel. IR |
| T1 | 1100 ms |
| Flip angle | 6 deg |
| Fat suppr. | None |
| Water suppr. | None |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution

| | |
|-----------------------|-------|
| Base resolution | 192 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |

Interpolation Off

PAT mode None

Image Filter Off

Distortion Corr. Off

Prescan Normalize Off

Normalize Off

B1 filter Off

Raw filter Off

Elliptical filter Off

Geometry

Multi-slice mode Sequential

Series Ascending

Table position H

Table position 0 mm

Inline Composing Off

System

V32 Off

A32 On

Positioning mode REF

MSMA S - C - T

Sagittal R >> L

Coronal A >> P

Transversal F >> H

Save uncombined Off

Coil Combine Mode Adaptive Combine

AutoAlign ---

Auto Coil Select Default

Shim mode Tune up

Adjust with body coil Off

Confirm freq. adjustment Off

Assume Silicone Off

! Ref. amplitude 1H 220.000 V

Adjustment Tolerance Auto

Adjust volume

Position Isocenter

Orientation Transversal

Rotation 0.00 deg

R >> L 350 mm

A >> P 263 mm

F >> H 350 mm

Physio

1st Signal/Mode None

Dark blood Off

Resp. control Off

Inline

Subtract Off

Std-Dev-Sag Off

Std-Dev-Cor Off

Std-Dev-Tra Off

Std-Dev-Time Off

MIP-Sag Off

MIP-Cor Off

MIP-Tra Off

MIP-Time Off

Save original images On

Sequence

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

| | |
|-----------------|------------|
| Introduction | On |
| Dimension | 2D |
| Asymmetric echo | Off |
| Bandwidth | 240 Hz/Px |
| Flow comp. | No |
| Echo spacing | 6.4 ms |
| <hr/> | |
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slice-sel. |
| RF spoiling | On |

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\UserProtocols\Renzo\VALSALVA_160205\2x23DVASO_monsterfat_2x1_flash_CAIP1_8_slices_30mr

TA: 9:36 PAT: 2 Voxel size: 2.0x2.0x2.0 mm Rel. SNR: 1.00 USER: VASO_109

Properties

| | |
|---|--------|
| Prio Recon | Off |
| Before measurement | |
| After measurement | |
| Load to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Start measurement without further preparation | On |
| Wait for user to start | Off |
| Start measurements | single |

Routine

| | |
|--------------------|------------------|
| Slab group 1 | |
| Slabs | 1 |
| Dist. factor | 50 % |
| Position | R1.0 A18.1 H11.7 |
| Orientation | T > C-10.6 |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Phase oversampling | 0 % |
| Slice oversampling | 0.0 % |
| Slices per slab | 8 |
| FoV read | 192.0 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.00 mm |
| TR | 1482.00 ms |
| TE | 22 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | None |
| Coil elements | A32 |

Contrast

| | |
|----------------------|---------------|
| Perfusion mode | Picore Q2TIPS |
| TI2 | 1025 ms |
| TI1 | 50 ms |
| TI1s | 50 ms |
| Flip angle | 14 deg |
| Fat suppr. | Fat sat. |
| Fat sat. mode | Strong |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 389 |
| Delay in TR | 0 ms |
| Multiple series | Off |
| Perfusion mode | PICORE Q2T |
| Inversion time 1 | 50 ms |
| Saturation stop time | 50 ms |
| Inversion time 2 | 1025.0 ms |
| Flow limit | 100.0 cm/s |

Resolution

| | |
|-----------------------|-------|
| Base resolution | 96 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | Off |
| Slice partial Fourier | Off |
| Interpolation | Off |

| | |
|---------------------|----------|
| PAT mode | GRAPPA |
| Accel. factor PE | 2 |
| Ref. lines PE | 24 |
| Accel. factor 3D | 1 |
| Ref. lines 3D | 8 |
| Reference scan mode | Separate |

| | |
|-------------------|-----|
| Prescan Normalize | Off |
| Raw filter | Off |
| Elliptical filter | Off |
| Hamming | Off |

Geometry

| | |
|------------------|-------------|
| Multi-slice mode | Interleaved |
| Series | Ascending |
| Special sat. | Parallel F |
| Gap | 25.0 mm |
| Thickness | 100 mm |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|-------------------|----------------|
| V32 | Off |
| A32 | On |
| Positioning mode | FIX |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Save uncombined | Off |
| Coil Combine Mode | Sum of Squares |
| AutoAlign | --- |
| Auto Coil Select | Default |

| | |
|--------------------------|------------------|
| Shim mode | Standard |
| Adjust with body coil | Off |
| Confirm freq. adjustment | Off |
| Assume Silicone | Off |
| ! Ref. amplitude 1H | 220.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | L0.0 A19.5 H21.2 |
| ! Orientation | S > T0.7 |
| ! Rotation | -0.26 deg |
| ! F >> H | 54 mm |
| ! A >> P | 192 mm |
| ! R >> L | 163 mm |

Physio

| | |
|-----------------|------|
| 1st Signal/Mode | None |
|-----------------|------|

BOLD

| | |
|-------------------|-----|
| Motion correction | Off |
| Spatial filter | Off |

Sequence

| | |
|-------------------|------------|
| Introduction | On |
| Dimension | 3D |
| Reordering | Linear |
| Contrasts | 1 |
| Bandwidth | 2084 Hz/Px |
| Free echo spacing | Off |
| Echo spacing | 0.57 ms |
| EPI factor | 96 |

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

| | |
|----------------------|--------------|
| RF pulse type | Normal |
| Gradient mode | Normal |
| Excitation | Slab-sel. |
| RF spoiling | On |
| <hr/> | |
| Ampl | 95 |
| BWDTH | 150 3.1kHz |
| thickness | 30 |
| use Ernst angle | Off |
| Maxwell Correction | Off |
| log physio files | Off |
| FFT scale | 1.00 |
| dummy prepscan time | 3 s |
| z shim | 0.00 mT/m*ms |
| RF duration | 5120 us |
| RF BWTP | 25.0 |
| EFFECTIVE TR | 11856 ms |
| PatPartitions | 8 |
| EPI phase correction | local |
| PAT refscan mode | Flash |
| FlashRef BaseRes | 96 |
| FlashRef BW | 1000 Hz/px |
| FlashRef TE | 4800 us |
| FlashRef FA | 5 deg |
| use CAIPI | Off |

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\UserProtocols\Renzo\VALSALVA_160205\No_transmit_voltage_3D_otpti

TA: 2:45 PAT: 2 Voxel size: 1.1x1.1x1.8 mm Rel. SNR: 1.00 USER: VASO_109

Properties

| | |
|---|--------|
| Prio Recon | Off |
| Before measurement | |
| After measurement | |
| Load to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Start measurement without further preparation | On |
| Wait for user to start | Off |
| Start measurements | single |

Routine

| | |
|--------------------|------------------|
| Slab group 1 | |
| Slabs | 1 |
| Dist. factor | 50 % |
| Position | R1.3 A10.1 H54.4 |
| Orientation | T > C2.8 |
| Phase enc. dir. | R >> L |
| Rotation | 90.00 deg |
| Phase oversampling | 0 % |
| Slice oversampling | 0.0 % |
| Slices per slab | 10 |
| FoV read | 34.4 mm |
| FoV phase | 300.0 % |
| Slice thickness | 1.80 mm |
| TR | 1648.40 ms |
| TE | 24 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | None |
| Coil elements | A32 |

Contrast

| | |
|----------------------|---------------|
| Perfusion mode | Picore Q2TIPS |
| TI2 | 900 ms |
| TI1 | 50 ms |
| TI1s | 50 ms |
| Flip angle | 30 deg |
| Fat suppr. | Fat sat. |
| Fat sat. mode | Strong |
| Averaging mode | Long term |
| Reconstruction | Magn./Phase |
| Measurements | 100 |
| Delay in TR | 0 ms |
| Multiple series | Off |
| Perfusion mode | PICORE Q2T |
| Inversion time 1 | 50 ms |
| Saturation stop time | 50 ms |
| Inversion time 2 | 900.0 ms |
| Flow limit | 100.0 cm/s |

Resolution

| | |
|-----------------------|-------|
| Base resolution | 32 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | 6/8 |
| Slice partial Fourier | Off |
| Interpolation | Off |

| | |
|---------------------|----------|
| PAT mode | GRAPPA |
| Accel. factor PE | 2 |
| Ref. lines PE | 24 |
| Accel. factor 3D | 1 |
| Ref. lines 3D | 8 |
| Reference scan mode | Separate |

| | |
|-------------------|-----|
| Prescan Normalize | Off |
| Raw filter | Off |
| Elliptical filter | Off |
| Hamming | Off |

Geometry

| | |
|------------------|-------------|
| Multi-slice mode | Interleaved |
| Series | Ascending |
| Special sat. | Parallel F |
| Gap | 25.0 mm |
| Thickness | 100 mm |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|--------------------------|------------------|
| V32 | Off |
| A32 | On |
| Positioning mode | FIX |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Save uncombined | Off |
| Coil Combine Mode | Sum of Squares |
| AutoAlign | --- |
| Auto Coil Select | Default |
| Shim mode | Standard |
| Adjust with body coil | Off |
| Confirm freq. adjustment | Off |
| Assume Silicone | Off |
| ! Ref. amplitude 1H | 0.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | L0.0 A19.5 H21.2 |
| ! Orientation | S > T0.7 |
| ! Rotation | -0.26 deg |
| ! F >> H | 54 mm |
| ! A >> P | 192 mm |
| ! R >> L | 163 mm |

Physio

| | |
|-----------------|------|
| 1st Signal/Mode | None |
|-----------------|------|

BOLD

| | |
|-------------------|-----|
| Motion correction | Off |
| Spatial filter | Off |

Sequence

| | |
|-------------------|------------|
| Introduction | On |
| Dimension | 3D |
| Reordering | Linear |
| Contrasts | 1 |
| Bandwidth | 1042 Hz/Px |
| Free echo spacing | Off |
| Echo spacing | 1.08 ms |
| EPI factor | 96 |

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

| | |
|----------------------|--------------|
| RF pulse type | Normal |
| Gradient mode | Normal |
| Excitation | Slab-sel. |
| RF spoiling | On |
| <hr/> | |
| Ampl | 100 |
| BWDTH | 150 3.1kHz |
| thickness | 30 |
| use Ernst angle | Off |
| Maxwell Correction | Off |
| log physio files | Off |
| FFT scale | 1.00 |
| dummy prepSCAN time | 3 s |
| z shim | 0.00 mT/m*ms |
| RF duration | 2560 us |
| RF BWTP | 25.0 |
| EFFECTIVE TR | 16484 ms |
| PatPartitions | 10 |
| EPI phase correction | local |
| PAT refscan mode | Flash |
| FlashRef BaseRes | 32 |
| FlashRef BW | 1000 Hz/px |
| FlashRef TE | 4800 us |
| FlashRef FA | 5 deg |
| use CAIPI | Off |