| | \\USER\UserProtocols\ | \Emily\171208\Localizer DLPF0 | <u> </u> |
|---------------------------|--------------------------|---|------------------|
| TA: 1:05 F | PAT: Off Voxel size: 1.0 | • | SIEMENS: tfl |
| 17.1.1.00 | 7777 011 70707 01207 110 | The State High | |
| Properties | | Interpolation | Off |
| Prio Recon | Off | PAT mode | None |
| Before measurement | 011 | | |
| After measurement | | Image Filter | Off |
| Load to viewer | On | Distortion Corr. | Off |
| Inline movie | Off | Prescan Normalize | Off |
| Auto store images | On | Normalize | Off |
| Load to stamp segments | Off | B1 filter | Off |
| Load images to graphic | Off | Raw filter | Off |
| segments | | Elliptical filter | Off |
| Auto open inline display | Off | Geometry | |
| Start measurement without | Off | Multi-slice mode | Sequential |
| further preparation | | Series | Ascending |
| Wait for user to start | Off | | |
| Start measurements | single | Table position | Н |
| Routine | | Table position | 0 mm |
| Slice group 1 | | Inline Composing | Off |
| Slices | 9 | | |
| Dist. factor | 200 % | System | 0" |
| Position | R7.2 A19.0 F6.3 | V32 | Off |
| Orientation | Sagittal | A32 | On |
| Phase enc. dir. | A >> P | Positioning mode | REF |
| Rotation | 0.00 deg | MSMA | S - C - T |
| Slice group 2 | 5.55 dog | Sagittal | R >> L |
| Slices | 5 | Coronal | A >> P |
| Dist. factor | 80 % | Transversal | F >> H |
| Position | R8.2 A20.7 H10.1 | Save uncombined | Off |
| Orientation | Transversal | Coil Combine Mode | Adaptive Combine |
| Phase enc. dir. | A >> P | AutoAlign | |
| Rotation | 0.00 deg | Auto Coil Select | Default |
| Slice group 3 | 3 | China manda | T |
| Slices | 7 | Shim mode | Tune up Off |
| Dist. factor | 200 % | Adjust with body coil Confirm freq. adjustment | Off |
| Position | R8.2 A46.4 F8.3 | Assume Silicone | Off |
| Orientation | Coronal | ! Ref. amplitude 1H | 220.000 V |
| Phase enc. dir. | R >> L | Adjustment Tolerance | Auto |
| Rotation | 0.00 deg | Adjust volume | Adio |
| Phase oversampling | 0 % | Position | Isocenter |
| FoV read | 200 mm | Orientation | Transversal |
| FoV phase | 100.0 % | Rotation | 0.00 deg |
| Slice thickness | 5.0 mm | R >> L | 350 mm |
| TR | 3000 ms | A >> P | 263 mm |
| TE . | 3.17 ms | F >> H | 350 mm |
| Averages | 1 | Į. | |
| Concatenations | 21 Nana | Physio | None |
| Filter | None | 1st Signal/Mode | None |
| Coil elements | A32 | Dark blood | Off |
| Contrast | | Dag | O# |
| TD | 0 ms | Resp. control | Off |
| Magn. preparation | Slice-sel. IR | Inline | |
| TI | 1100 ms | Subtract | Off |
| Flip angle | 6 deg | Std-Dev-Sag | Off |
| Fat suppr. | None | Std-Dev-Cor | Off |
| Water suppr. | None | Std-Dev-Tra | Off |
| Averaging mode | Long term | Std-Dev-Time | Off |
| Reconstruction | Magnitude | MIP-Sag | Off |
| Measurements | 1 | MIP-Cor | Off |
| Multiple series | Each measurement | MIP-Tra | Off |
| • | | MIP-Time | Off |
| Resolution | | Save original images | On |
| Base resolution | 192 | | |

Sequence

100 %

Off

Phase resolution

Phase partial Fourier

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

\\USER\UserProtocols\Emily\171208\epi_sms3_ip2_2mm_10_20GLM

TA: 6:18 PAT: 2 Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00 USER: ep2d_bold_sms_mgh_v22

| Properties | | Special sat. | None |
|---------------------------|-----------------|--------------------------|------------------|
| Prio Recon | Off | Table position | Н |
| Before measurement | | Table position | 0 mm |
| After measurement | | Inline Composing | Off |
| Load to viewer | On | System | |
| Inline movie | Off | System | 0" |
| Auto store images | On | V32 | Off |
| Load to stamp segments | Off | A32 | On |
| Load images to graphic | Off | Positioning mode | FIX |
| segments | | MSMA | S - C - T |
| Auto open inline display | Off | Sagittal | R >> L |
| Start measurement without | On | Coronal | A >> P |
| further preparation | | Transversal | F >> H |
| Wait for user to start | Off | Coil Combine Mode | Sum of Squares |
| Start measurements | single | AutoAlign | |
| ı | Single | Auto Coil Select | Default |
| Routine | | Auto Coll Select | Delault |
| Slice group 1 | | Shim mode | Standard |
| Slices | 57 | Adjust with body coil | Off |
| Dist. factor | 0 % | Confirm freq. adjustment | Off |
| Position | L0.0 A19.0 H6.2 | Assume Silicone | Off |
| Orientation | Transversal | ! Ref. amplitude 1H | 220.000 V |
| Phase enc. dir. | A >> P | Adjustment Tolerance | Auto |
| Rotation | 0.00 deg | Adjust volume | 7.000 |
| Phase oversampling | 0 % | ! Position | R6.3 A21.1 H26.4 |
| FoV read | 195 mm | ! Orientation | T > C3.0 |
| FoV phase | 100.0 % | ! Rotation | 0.00 deg |
| Slice thickness | 2.0 mm | ! R >> L | 120 mm |
| TR | 1000 ms | ! A >> P | 162 mm |
| TE | 23 ms | !F>> H | 50 mm |
| Averages | 1 | 1 : 1 >> 11 | 30 111111 |
| Concatenations | 1 | Physio | |
| Filter | None | 1st Signal/Mode | None |
| Coil elements | A32 | DOLD. | |
| 1 | 7.02 | BOLD | |
| Contrast | | GLM Statistics | On |
| MTC | Off | Dynamic t-maps | Off |
| Flip angle | 65 deg | Starting ignore meas | 0 |
| Fat suppr. | Fat sat. | Ignore after transition | 1 |
| A | | Model transition states | Off |
| Averaging mode | Long term | Temp. highpass filter | On |
| Reconstruction | Magnitude | Threshold | 4.00 |
| Measurements | 360 | Paradigm size | 20 |
| Delay in TR | 0 ms | Meas[1] | Baseline |
| Multiple series | Off | Meas[2] | Baseline |
| Resolution | | Meas[3] | Baseline |
| Base resolution | 98 | Meas[4] | Baseline |
| Phase resolution | 100 % | Meas[5] | Baseline |
| Phase partial Fourier | Off | Meas[6] | Baseline |
| Interpolation | Off | Meas[7] | Baseline |
| | OII | Meas[8] | Baseline |
| PAT mode | GRAPPA | Meas[9] | Baseline |
| Accel. factor PE | 2 | Meas[10] | Active |
| Ref. lines PE | 24 | Meas[11] | Active |
| Reference scan mode | Separate | Meas[12] | Active |
| | | Meas[13] | Active |
| Distortion Corr. | Off | Meas[14] | Active |
| Prescan Normalize | Off | Meas[15] | Active |
| Raw filter | On | Meas[16] | Active |
| Elliptical filter | Off | Meas[17] | Active |
| Hamming | Off | | Active |
| • | | Meas[18] | |
| Geometry | lata da accad | Meas[19] | Active |
| Multi-slice mode | Interleaved | Meas[20] | Active |
| Series | Interleaved | Motion correction | Off Off |
| 1 | | Spatial filter | Off |

Sequence

| Introduction | Off |
|--------------------|------------|
| Bandwidth | 1890 Hz/Px |
| Free echo spacing | Off |
| Echo spacing | 0.63 ms |
| EPI factor | 98 |
| RF pulse type | Normal |
| Gradient mode | Fast |
| Dummy Scans | 3 |
| , | |
| Dummy Scans | 4 |
| SMS Factor | 3 |
| RF Clip | 0 |
| VERSE Factor | 1.00 |
| SMS Shift | 2 |
| Kernel Size | 5x5 |
| Compression Factor | 1.00 |
| | |

| \\IISE | | .171208\FA4_VASO_122_130n | nmFOV |
|---|------------------------|---------------------------------|------------------|
| TA: 11:04 | PAT: 3 Voxel size: 0.9 | | UNKNOWN: |
| | | L DAT d- | OD A DD A |
| Properties | | PAT mode Accel, factor PE | GRAPPA 3 |
| Prio Recon | Off | Ref. lines PE | 48 |
| Before measurement | | Accel. factor 3D | 1 |
| After measurement | _ | Ref. lines 3D | 24 |
| Load to viewer | On | Reference scan mode | Separate |
| Inline movie | Off | | |
| Auto store images | On Off | Prescan Normalize | Off Off |
| Load to stamp segments Load images to graphic | Off | Raw filter | Off Off |
| segments | Oil | Elliptical filter Hamming | Off |
| Auto open inline display | Off | Паппппу | Oli |
| Start measurement without | On | Geometry | |
| further preparation | | Multi-slice mode | Interleaved |
| Wait for user to start | Off | Series | Ascending |
| Start measurements | single | Special sat. | Parallel F |
| Routine | • | Gap | 25.0 mm |
| Slab group 1 | | Thickness | 100 mm |
| Slabs | 1 | Table a selice | |
| Dist. factor | 50 % | Table position | H |
| Position | R6.3 A42.8 H29.1 | Table position Inline Composing | 0 mm Off |
| Orientation | T > C24.1 | Inline Composing | Oli |
| Phase enc. dir. | P >> A | System | |
| Rotation | 180.00 deg | V32 | Off |
| Phase oversampling | 0 % | A32 | On |
| Slice oversampling | 9.1 % | Positioning mode | FIX |
| Slices per slab | 22 | MSMA | S - C - T |
| FoV read | 150.0 mm | Sagittal | R >> L |
| FoV phase | 100.0 % | Coronal | A >> P |
| Slice thickness | 1.10 mm | Transversal | F >> H |
| TR | 2006.00 ms | Save uncombined | Off |
| TE | 20 ms | Coil Combine Mode | Sum of Squares |
| Averages | 1 | AutoAlign | |
| Concatenations Filter | 1 None | Auto Coil Select | Default |
| Coil elements | A32 | Shim mode | Standard |
| 1 | 7.02 | Adjust with body coil | Off |
| Contrast | | Confirm freq. adjustment | Off |
| Perfusion mode | SS-SI VASO | Assume Silicone | Off |
| TI2 | 700 ms | ! Ref. amplitude 1H | 220.000 V |
| TI1 | 50 ms | Adjustment Tolerance | Auto |
| TI1s | 50 ms | Adjust volume | |
| Flip angle Fat suppr. | 4 deg Fat sat. | ! Position | L0.0 A28.9 H28.3 |
| Fat sat, mode | rai sai. Weak | ! Orientation | T > C6.9 |
| | | ! Rotation | 0.00 deg |
| Averaging mode | Long term | ! R >> L | 120 mm |
| Reconstruction | Magnitude | ! A >> P | 162 mm |
| Measurements | 331 | ! F >> H | 54 mm |
| Delay in TR | 0 ms | Physio | |
| Multiple series | Off | 1st Signal/Mode | None |
| Perfusion mode | PICORE Q2T | BOLD | |
| Inversion time 1 | 50 ms | Motion correction | Off |

| segments | | Hamming | Off |
|---------------------------|------------------|---------------------------------|------------------|
| Auto open inline display | Off | Goometry | |
| Start measurement without | On | Geometry Multi-slice mode | Interleaved |
| further preparation | | Series | |
| Wait for user to start | Off | Selles | Ascending |
| Start measurements | single | Special sat. | Parallel F |
| Routine | | Gap | 25.0 mm |
| Slab group 1 | | Thickness | 100 mm |
| Slabs | 1 | Table position | Н |
| Dist. factor | 50 % | Table position | П 0 mm |
| Position | R6.3 A42.8 H29.1 | Table position Inline Composing | Off |
| Orientation | T > C24.1 | millie Composing | Oli |
| Phase enc. dir. | P >> A | System | |
| Rotation | 180.00 deg | V32 | Off |
| Phase oversampling | 0 % | A32 | On |
| Slice oversampling | 9.1 % | Desitioning and | FIV |
| Slices per slab | 22 | Positioning mode | FIX |
| FoV read | 150.0 mm | MSMA | S-C-T |
| FoV phase | 100.0 % | Sagittal | R >> L |
| Slice thickness | 1.10 mm | Coronal | A >> P |
| TR | 2006.00 ms | Transversal | F >> H |
| TE | 20 ms | Save uncombined | Off |
| Averages | 1 | Coil Combine Mode | Sum of Squares |
| Concatenations | 1 | Auto Align | |
| Filter | None | Auto Coil Select | Default |
| Coil elements | A32 | Shim mode | Standard |
| _ | | Adjust with body coil | Off |
| Contrast | | Confirm freq. adjustment | Off |
| Perfusion mode | SS-SI VASO | Assume Silicone | Off |
| TI2 | 700 ms | ! Ref. amplitude 1H | 220.000 V |
| TI1 | 50 ms | Adjustment Tolerance | Auto |
| TI1s | 50 ms | Adjust volume | |
| Flip angle | 4 deg | ! Position | L0.0 A28.9 H28.3 |
| Fat suppr. | Fat sat. | ! Orientation | T > C6.9 |
| Fat sat. mode | Weak | ! Rotation | 0.00 deg |
| Averaging mode | Long term | ! R >> L | 120 mm |
| Reconstruction | Magnitude | ! A >> P | 162 mm |
| Measurements | 331 | ! F >> H | 54 mm |
| Delay in TR | 0 ms | Physio | |
| Multiple series | Off | 1st Signal/Mode | None |
| | | I'st Signal/Wode | None |
| Perfusion mode | PICORE Q2T | BOLD | |
| Inversion time 1 | 50 ms | Motion correction | Off |
| Saturation stop time | 50 ms | Spatial filter | Off |
| Inversion time 2 | 700.0 ms | Coguence | |
| Flow limit | 100 cm/s | Sequence | On |
| Resolution | | Introduction | On 3D |
| Base resolution | 162 | Dimension Reordering | Linear |
| Phase resolution | 100 % | Contrasts | 1 |
| Slice resolution | 100 % | Bandwidth | ı 1144 Hz/Px |
| Phase partial Fourier | 6/8 | Free echo spacing | Off |
| Slice partial Fourier | Off | Echo spacing | 0.98 ms |
| Interpolation | Off | Lond spading | U.JU III3 |
| [i | | EPI factor | 162 |
| | | <i>-</i> | |
| | | 5/+ | |

| RF pulse type Gradient mode Excitation RF spoiling | Normal Fast Slab-sel. On |
|--|--|
| Ampl BWDTH ph.skip 4 Robert (the one) use Ernst angle Maxwell Correction log physio files FFT scale dummy prepscan time z shim RF duration RF BWTP Renzo: Delta TI EFFECTIVE TR PatPartitions EPI phase correction PAT refscan mode FlashRef BaseRes FlashRef BW FlashRef TE FlashRef FA use CAIPI | 100 150 3.1kHz 30 Off Off Off Off 1.00 3 s 0.00 mT/m*ms 2000 us 25.0 51 ms 48144 ms 24 local Flash 162 141 Hz/px 4800 us 5 deg Off |
| | |

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|-------------------|--|
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