\\USER\projects\imagen_fu3\imagen3,session1\localizer

| TA: 0:21 P | | 7.0 mm Rel. SNR: 1.00 | SIEMENS: gre |
|---------------------------|-------------------------------|--|----------------|
| Properties | 0" | Phase partial Fourier Interpolation | Off On |
| Prio Recon | Off | | |
| Before measurement | | PAT mode | None |
| After measurement | 0 | Matrix Coil Mode | СР |
| Load to viewer | On Off | Image Filter | Off |
| Inline movie | Off | Distortion Corr. | On |
| Auto store images | On Off | Mode | 2D |
| Load to stamp segments | Off | Unfiltered images | Off |
| Load images to graphic | Off | Unfiltered images | Off |
| segments | 0" | Prescan Normalize | On |
| Auto open inline display | Off | Normalize | Off |
| Start measurement without | Off | B1 filter | Off |
| further preparation | 0# | Raw filter | Off |
| Wait for user to start | Off | Elliptical filter | On |
| Start measurements | single | Mode | Inplane |
| Routine | | 1 | |
| Slice group 1 | | Geometry | |
| Slices | 3 | Multi-slice mode | Sequential |
| Dist. factor | 114 % | Series | Interleaved |
| Position | Isocenter | Saturation mode | Standard |
| Orientation | Sagittal | Special sat. | None |
| Phase enc. dir. | A >> P | ' | |
| Rotation | 0.00 deg | | |
| Slice group 2 | 0.00 409 | Set-n-Go Protocol | Off |
| Slices | 1 | Table position | H |
| Dist. factor | 20 % | Table position | 0 mm |
| Position | Isocenter | Inline Composing | Off |
| Orientation | Transversal | System | |
| Phase enc. dir. | A >> P | Body | Off |
| Rotation | 0.00 deg | HEP | On |
| Slice group 3 | 0.00 deg | HEA | On |
| Slices | 1 | | |
| Dist. factor | 20 % | Positioning mode | REF |
| Position | Isocenter | MSMA | S - C - T |
| Orientation | Coronal | Sagittal | L >> R |
| Phase enc. dir. | R >> L | Coronal | P >> A |
| Rotation | 0.00 deg | Transversal | F >> H |
| Phase oversampling | 0.00 deg 0 % | Coil Combine Mode | Sum of Squares |
| FoV read | 250 mm | AutoAlign | |
| FoV phase | 100.0 % | Auto Coil Select | Default |
| Slice thickness | 7.0 mm | Chim mada | Tuno un |
| TR | 8.6 ms | Shim mode | Tune up Off |
| TE | 4.00 ms | Adjust with body coil | _ |
| Averages | 4.00 ms 2 | Confirm freq. adjustment Assume Silicone | Off Off |
| Concatenations | 2 5 | ? Ref. amplitude 1H | Oπ 0.000 V |
| Filter | Distortion Corr.(2D), Prescan | | |
| Filler | • • • | Adjustment Tolerance | Auto |
| Coil alamanta | Normalize, Elliptical filter | Adjust volume | laggantar |
| Coil elements | HEA;HEP | Position | Isocenter |
| Contrast | | Orientation | Transversal |
| TD | 0 ms | - Rotation | 0.00 deg |
| MTC | Off | R >> L | 350 mm |
| Magn. preparation | None | A >> P | 263 mm |
| Flip angle | 20 deg | F >> H | 350 mm |
| Fat suppr. | None | Physio | |
| Water suppr. | None | 1st Signal/Mode | None |
| | | Segments | 1 |
| Averaging mode | Short term | | |
| Reconstruction | Magnitude | Tagging | None |
| Measurements | 1 | Dark blood | Off |
| Multiple series | Each measurement | Doop control | Off |
| Resolution | | Resp. control | Off |
| Base resolution | 256 | - Inline | |
| Phase resolution | 256 90 % | Subtract | Off |
| Filase resolution | 3 U 70 | 1/+ | |

1/+

| Liver registration | 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 |
| Wash - In | Off |
| Wash - Out | Off |
| TTP | Off |
| PEI | Off |
| MIP - time | Off |

| Ocquence | |
|---------------------|------------|
| Introduction | On |
| Dimension | 2D |
| Phase stabilisation | Off |
| Asymmetric echo | Allowed |
| Contrasts | 1 |
| Bandwidth | 320 Hz/Px |
| Flow comp. | No |
| Allowed delay | 0 s |
| RF pulse type | Normal |
| Gradient mode | Normal |
| Excitation | Slice-sel. |
| RF spoiling | On |
| | |

\\USER\projects\imagen_fu3\imagen3,session1\ADNI MPRAGE

| | PAT: Off Voxel size: 1.1×1.1x | <1.1 mm Rel. SNR: 1.00 | SIEMENS: tfl |
|---------------------------|-------------------------------|--------------------------|-----------------|
| Proportion | | Prescan Normalize | On |
| Prio Page | 0# | - Normalize | Off |
| Prio Recon | Off | B1 filter | Off |
| Before measurement | | Raw filter | Off |
| After measurement | 00 | Elliptical filter | Off |
| Load to viewer | On O# | Coometry | |
| Inline movie | Off | Geometry | Cinale abot |
| Auto store images | On O# | Multi-slice mode | Single shot |
| Load to stamp segments | Off | Series | Interleaved |
| Load images to graphic | Off | | |
| segments | 0# | Set-n-Go Protocol | Off |
| Auto open inline display | Off | Table position | Н |
| Start measurement without | On | Table position | 11 mm |
| further preparation | | Inline Composing | Off |
| Wait for user to start | On | System | |
| Start measurements | single | Body | Off |
| Routine | | HEP | On |
| Slab group 1 | | - HEA | On |
| Slabs | 1 | | |
| Dist. factor | 50 % | Positioning mode | ISO |
| Position | R4.7 A3.1 H10.8 | MSMA | S - C - T |
| Orientation | Sagittal | Sagittal | L >> R |
| Phase enc. dir. | A >> P | Coronal | P >> A |
| Rotation | 0.00 deg | Transversal | F >> H |
| Phase oversampling | 0.00 deg 0 % | Save uncombined | Off |
| Slice oversampling | 0.0 % | Coil Combine Mode | Sum of Squares |
| | | AutoAlign | |
| Slices per slab | 160 | Auto Coil Select | Default |
| FoV read | 280 mm | | |
| FoV phase | 93.8 % | Shim mode | Standard |
| Slice thickness | 1.10 mm | Adjust with body coil | Off |
| TR | 2300 ms | Confirm freq. adjustment | Off |
| TE | 2.93 ms | Assume Silicone | Off |
| Averages | 1 | ? Ref. amplitude 1H | 0.000 V |
| Concatenations | 1 | Adjustment Tolerance | Auto |
| Filter | Distortion Corr.(2D), Prescan | Adjust volume | |
| | Normalize | Position | R4.7 A3.1 H10.8 |
| Coil elements | HEA;HEP | Orientation | Sagittal |
| Contrast | | Rotation | 0.00 deg |
| Magn. preparation | Non-sel. IR | F >> H | 280 mm |
| TI | 900 ms | A >> P | 263 mm |
| Flip angle | 9 deg | R >> L | 176 mm |
| Fat suppr. | None | 1 | |
| Water suppr. | None | Physio | |
| ······ | None | 1st Signal/Mode | None |
| Averaging mode | Long term | Dark blood | Off |
| Reconstruction | Magnitude | | |
| Measurements | 1 | Resp. control | Off |
| Multiple series | Off | Inline | |
| Resolution | | Subtract | Off |
| Base resolution | 256 | Std-Dev-Sag | Off |
| Phase resolution | 100 % | Std-Dev-Cor | Off |
| Slice resolution | 100 % | Std-Dev-Tra | Off |
| | | Std-Dev-Time | Off |
| Phase partial Fourier | Off | MIP-Sag | Off |
| Slice partial Fourier | Off | MIP-Cor | Off |
| Interpolation | Off | MIP-Cor MIP-Tra | Off |
| PAT mode | None | | |
| Matrix Coil Mode | CP | MIP-Time | Off |
| | | Save original images | On |
| Image Filter | Off | 1 | |
| Distortion Corr. | On | Sequence | |
| Mode | 2D | Introduction | On |
| Unfiltered images | On | Dimension | 3D |
| Unfiltered images | Off | Elliptical scanning | Off |

| | Asymmetric echo Bandwidth Flow comp. Echo spacing | Off 240 Hz/Px No 6.9 ms |
|---|--|----------------------------------|
| | RF pulse type Gradient mode Excitation | Fast Normal Non-sel. |
| ı | RF spoiling | On |

\\USER\projects\imagen_fu3\imagen3,session1\T2

| TA: 2:46 | PAT: 2 Voxel size: 0.8×0.8×4 | I.0 mm Rel. SNR: 1.00 | SIEMENS: tse |
|---------------------------|-------------------------------|--------------------------|---------------------|
| | | Unfiltered images | Off |
| Properties | | - Unfiltered images | Off |
| Prio Recon | Off | Prescan Normalize | On |
| Before measurement | | Normalize | Off |
| After measurement | | B1 filter | Off |
| Load to viewer | On | | _ |
| Inline movie | Off | Raw filter | Off |
| Auto store images | On | Elliptical filter | Off |
| Load to stamp segments | Off | Geometry | |
| Load images to graphic | Off | Multi-slice mode | Interleaved |
| segments | 0.11 | Series | Interleaved |
| Auto open inline display | Off | | |
| Start measurement without | On | Special sat. | None |
| | On | | |
| further preparation | 0 | Set-n-Go Protocol | Off |
| Wait for user to start | On | Table position | Н |
| Start measurements | single | Table position | 11 mm |
| Routine | | Inline Composing | Off |
| Slice group 1 | | . I miline Composing | Oli |
| Slices | 36 | System | |
| Dist. factor | 0 % | Body | Off |
| | | HEP | On |
| Position | R4.7 A3.1 H10.8 | HEA | On |
| Orientation | T > C-14.9 | IILA | |
| Phase enc. dir. | L >> R | Positioning mode | ISO |
| Rotation | -90.00 deg | MSMA | S-C-T |
| Phase oversampling | 0 % | Sagittal | L >> R |
| FoV read | 240 mm | Coronal | P >> A |
| FoV phase | 75.0 % | Transversal | F >> H |
| Slice thickness | 4.0 mm | Coil Combine Mode | Sum of Squares |
| TR | 4380 ms | | |
| TE | 61 ms | AutoAlign | |
| Averages | 1 | Auto Coil Select | Default |
| Concatenations | 2 | Shim mode | Standard |
| Filter | Distortion Corr.(2D), Prescan | Adjust with body coil | Off |
| i iitei | Normalize | Confirm freq. adjustment | Off |
| Coil elements | HEA;HEP | Assume Silicone | Off |
| Coll elements | пен,пер | ? Ref. amplitude 1H | 0.000 V |
| Contrast | | Adjustment Tolerance | |
| TD | 0.0 ms | 1 | Auto |
| MTC | Off | Adjust volume | D 4 7 4 0 4 114 0 0 |
| Magn. preparation | None | Position | R4.7 A3.1 H10.8 |
| Flip angle | 180 deg | Orientation | T > C-14.9 |
| | None | Rotation | -90.00 deg |
| Fat suppr. | | A >> P | 240 mm |
| Water suppr. | None | R >> L | 180 mm |
| Restore magn. | On | F >> H | 144 mm |
| Averaging mode | Short term | n . | |
| Reconstruction | Magnitude | Physio | |
| Measurements | 1 | 1st Signal/Mode | None |
| | Each measurement | Dark blood | Off |
| Multiple series | Each measurement | Dark blood | |
| Resolution | | Resp. control | Off |
| Base resolution | 320 | | |
| Phase resolution | 100 % | Inline | |
| Phase partial Fourier | Off | Subtract | Off |
| | | Std-Dev-Sag | Off |
| Trajectory | Cartesian | Std-Dev-Cor | Off |
| Interpolation | On | Std-Dev-Tra | Off |
| PAT mode | GRAPPA | Std-Dev-Time | Off |
| Accel. factor PE | 2 | MIP-Sag | Off |
| Ref. lines PE | 30 | MIP-Cor | Off |
| Matrix Coil Mode | CP | MIP-Tra | Off |
| | | MIP-Time | Off |
| Reference scan mode | Integrated | Save original images | On |
| Image Filter | Off | Save Original inlages | OII |
| Distortion Corr. | On | 0 | |
| Mode | 2D | Sequence | |
| 1 | | Introduction | Off |
| | | - / | |

Dimension 2D
Compensate T2 decay On
Reduce Motion Sens. Off
Contrasts 1

Bandwidth 195 Hz/Px
Flow comp. No
Allowed delay 120 s
Echo spacing 10.2 ms

Define Turbo factor

Turbo factor 15
Echo trains per slice 9
RF pulse type Normal
Gradient mode Fast

\\USER\projects\imagen_fu3\imagen3,session1\FLAIR

| TA: 2:24 P | PAT: Off Voxel size: 1.9×0.9× | 4.0 mm Rel. SNR: 1.00 | SIEMENS: tse |
|---------------------------|-------------------------------|--|-----------------|
| | | Unfiltered images | Off |
| Properties | | - Prescan Normalize | On |
| Prio Recon | Off | Normalize | Off |
| Before measurement | | B1 filter | Off |
| After measurement | _ | Raw filter | Off |
| Load to viewer | On | Elliptical filter | Off |
| Inline movie | Off | • | . |
| Auto store images | On | Geometry | |
| Load to stamp segments | Off | Multi-slice mode | Interleaved |
| Load images to graphic | Off | Series | Interleaved |
| segments | | Special sat. | None |
| Auto open inline display | Off | | |
| Start measurement without | On | Set-n-Go Protocol | Off |
| further preparation | | | H |
| Wait for user to start | Off | Table position | ⊓ 11 mm |
| Start measurements | single | Table position | |
| Routine | | Inline Composing | Off |
| Slice group 1 | | System | |
| Slices | 36 | Body | Off |
| Dist. factor | 0 % | HEP | On |
| Position | R4.7 A3.1 H10.8 | HEA | On |
| Orientation | T > C-14.9 | Decision in a read- | 100 |
| Phase enc. dir. | L >> R | Positioning mode | ISO |
| Rotation | -90.00 deg | MSMA | S-C-T |
| Phase oversampling | 0 % | Sagittal | L >> R |
| FoV read | 240 mm | Coronal | P >> A |
| FoV phase | 100.0 % | Transversal | F >> H |
| Slice thickness | 4.0 mm | Coil Combine Mode | Sum of Squares |
| | 8000 ms | AutoAlign | |
| TR TE | | Auto Coil Select | Default |
| | 119.0 ms | Shim mode | Standard |
| Averages | 1 | Adjust with body coil | Off |
| Concatenations | 3 | | |
| Filter | Distortion Corr.(2D), Prescan | Confirm freq. adjustment Assume Silicone | Off Off |
| | Normalize | | _ |
| Coil elements | HEA;HEP | ? Ref. amplitude 1H | 0.000 V |
| Contrast | | Adjustment Tolerance | Auto |
| TD | 0.0 ms | Adjust volume Position | D4 7 40 4 140 0 |
| MTC | Off | | R4.7 A3.1 H10.8 |
| Magn. preparation | Slice-sel. IR | Orientation | T > C-14.9 |
| TI | 2000 ms | Rotation | -90.00 deg |
| Freeze suppressed tissue | Off | A >> P | 240 mm |
| Flip angle | 150 deg | R >> L | 240 mm |
| Fat suppr. | None | F >> H | 144 mm |
| Water suppr. | None | Physio | |
| Restore magn. | Off | 1st Signal/Mode | None |
| | | | |
| Averaging mode | Long term | Dark blood | Off |
| Reconstruction | Magnitude | Resp. control | Off |
| Measurements | 1 | 1 ' | |
| Multiple series | Each measurement | Inline | |
| Resolution | | Subtract | Off |
| Base resolution | 256 | - Std-Dev-Sag | Off |
| Phase resolution | 50 % | Std-Dev-Cor | Off |
| Phase partial Fourier | Off | Std-Dev-Tra | Off |
| Trajectory | Cartesian | Std-Dev-Time | Off |
| Interpolation | On | MIP-Sag | Off |
| | | MIP-Cor | Off |
| PAT mode | None | MIP-Tra | Off |
| Matrix Coil Mode | CP | MIP-Time | Off |
| Image Filter | Off | Save original images | On |
| Image Filter | Off | | |
| Distortion Corr. | On | Sequence | |
| Mode | 2D | Introduction | Off |
| Unfiltered images | Off | Dimension | 2D |
| | | 7/. | |

Compensate T2 decay Off Reduce Motion Sens. Off Contrasts 1

Bandwidth 195 Hz/Px
Flow comp. No
Allowed delay 60 s
Echo spacing 9.92 ms

Define Turbo factor

Turbo factor 27
Echo trains per slice 5
RF pulse type Normal
Gradient mode Normal

\\USER\projects\imagen_fu3\imagen3,session1\EPI_MID_FU3

TA: 7:07 PAT: 2 Voxel size: 3.4×3.4×2.4 mm Rel. SNR: 1.00 SIEMENS: ep2d_bold

| Properties | | Series | Descending |
|---------------------------------|-------------------|---|--------------------|
| Prio Recon | Off | Special sat. | None |
| Before measurement | | | |
| After measurement | | Set-n-Go Protocol Table position | Off H |
| Load to viewer | On | Table position | п 11 mm |
| Inline movie | Off | Inline Composing | Off |
| Auto store images | On Off | | 3 11 |
| Load to stamp segments | Off Off | System | |
| Load images to graphic segments | Oii | Body | Off |
| Auto open inline display | Off | HEP HEA | On On |
| Start measurement without | On | | OII |
| further preparation | | Positioning mode | ISO |
| Wait for user to start | On | MSMA | S - C - T |
| Start measurements | single | Sagittal | L >> R |
| Routine | | Coronal Transversal | P >> A F >> H |
| Slice group 1 | | Coil Combine Mode | Sum of Squares |
| Slices | 40 | AutoAlign | |
| Dist. factor | 42 % | Auto Coil Select | Default |
| Position | R4.7 A3.1 H10.8 | | |
| Orientation | T > C-14.9 | Shim mode | Standard |
| Phase enc. dir. | A >> P | Adjust with body coil Confirm freq. adjustment | Off Off |
| Rotation | 0.00 deg | Assume Silicone | Off |
| Phase oversampling | 0 % 220 mm | ? Ref. amplitude 1H | 0.000 V |
| FoV read FoV phase | 100.0 % | Adjustment Tolerance | Auto |
| Slice thickness | 2.4 mm | Adjust volume | |
| TR | 2200 ms | Position | R4.7 A3.1 H10.8 |
| TE | 30 ms | Orientation | T > C-14.9 |
| Averages | 1 | Rotation | 0.00 deg |
| Concatenations | 1 | R >> L | 220 mm |
| Filter | Prescan Normalize | A >> P | 220 mm |
| Coil elements | HEA;HEP | F >> H | 136 mm |
| Contrast | | Physio | |
| MTC | Off | 1st Signal/Mode | None |
| Flip angle | 75 deg | BOLD | |
| Fat suppr. | Fat sat. | GLM Statistics | Off |
| Averaging mode | Long term | Dynamic t-maps | Off |
| Reconstruction | Magnitude | Starting ignore meas | 0 |
| Measurements | 191 | Ignore after transition | 0 |
| Delay in TR | 0 ms | Model transition states | Off Off |
| Multiple series | Off | Temp. highpass filter Threshold | Off 4.00 |
| Resolution | | Paradigm size | 20 |
| Base resolution | 64 | _ Faradigiti size Meas[1] | Baseline |
| Phase resolution | 100 % | Meas[2] | Baseline |
| Phase partial Fourier | Off | Meas[3] | Baseline |
| Interpolation | Off | Meas[4] | Baseline |
| PAT mode | GRAPPA | Meas[5] | Baseline |
| Accel. factor PE | 2 | Meas[6] | Baseline |
| Ref. lines PE | 24 | Meas[7] | Baseline |
| Matrix Coil Mode | CP | Meas[8] | Baseline |
| Reference scan mode | Separate | Meas[9] | Baseline |
| Distortion Corr. | Off | Meas[10] | Baseline Active |
| Unfiltered images | Off | Meas[11] Meas[12] | Active |
| Prescan Normalize | On | Meas[13] | Active |
| Raw filter | On | Meas[14] | Active |
| Elliptical filter | Off | Meas[15] | Active |
| Hamming | Off | Meas[16] | Active |
| Geometry | | Meas[17] | Active |
| Multi-slice mode | Interleaved | - Meas[18] | Active |
| INITIAL THOUSE | inteneaved | • | |

| Meas[19] | Active |
|-------------------|--------|
| Meas[20] | Active |
| Motion correction | Off |
| Spatial filter | Off |
| | |

| Introduction Bandwidth Free echo spacing Echo spacing | Off 2298 Hz/Px On 0.52 ms |
|---|------------------------------------|
| EPI factor | 64 |
| RF pulse type | Normal |
| Gradient mode | Fast |

| \\USER\projects\imagen_fu3\imagen3,session1\EPI_Face_FU3 | | | | |
|--|--------|----------------------------|----------------|--------------------|
| TA: 7:31 | PAT: 2 | Voxel size: 3.4×3.4×2.4 mm | Rel. SNR: 1.00 | SIEMENS: ep2d_bold |

| Properties | | Series | Descending |
|--|-------------------|--|----------------------|
| Prio Recon | Off | Special sat. | None |
| Before measurement | | Set-n-Go Protocol | Off |
| After measurement | _ | Table position | H |
| Load to viewer | On | Table position | 11 mm |
| Inline movie | Off | Inline Composing | Off |
| Auto store images | On Off | | |
| Load to stamp segments Load images to graphic | Off | System | 0" |
| segments | Oli | Body HEP | Off On |
| Auto open inline display | Off | HEA | On |
| Start measurement without | On | | |
| further preparation | | Positioning mode | ISO |
| Wait for user to start | On | MSMA | S - C - T |
| Start measurements | single | Sagittal | L >> R |
| Routine | | Coronal Transversal | P >> A F >> H |
| Slice group 1 | | Coil Combine Mode | Sum of Squares |
| Slices | 40 | AutoAlign | |
| Dist. factor | 42 % | Auto Coil Select | Default |
| Position | R4.7 A3.1 H10.8 | | |
| Orientation | T > C-14.9 | Shim mode | Standard |
| Phase enc. dir. | A >> P | Adjust with body coil Confirm freg. adjustment | Off Off |
| Rotation | 0.00 deg | Assume Silicone | Off |
| Phase oversampling | 0 % | ? Ref. amplitude 1H | 0.000 V |
| FoV read FoV phase | 220 mm 100.0 % | Adjustment Tolerance | Auto |
| Slice thickness | 2.4 mm | Adjust volume | , tate |
| TR | 2200 ms | Position | R4.7 A3.1 H10.8 |
| TE | 30 ms | Orientation | T > C-14.9 |
| Averages | 1 | Rotation | 0.00 deg |
| Concatenations | 1 | R >> L | 220 mm |
| Filter | Prescan Normalize | A >> P | 220 mm |
| Coil elements | HEA;HEP | F >> H | 136 mm |
| Contrast | | Physio | |
| MTC | Off | 1st Signal/Mode | None |
| Flip angle | 75 deg | BOLD | |
| Fat suppr. | Fat sat. | GLM Statistics | Off |
| Averaging mode | Long term | Dynamic t-maps | Off |
| Reconstruction | Magnitude | Starting ignore meas | 0 |
| Measurements | 202 | Ignore after transition | 0 |
| Delay in TR | 0 ms | Model transition states | Off |
| Multiple series | Off | Temp. highpass filter | Off |
| Resolution | | Threshold | 4.00 |
| Base resolution | 64 | Paradigm size | 20 Receline |
| Phase resolution | 100 % | Meas[1] Meas[2] | Baseline Baseline |
| Phase partial Fourier | Off | Meas[3] | Baseline |
| Interpolation | Off | Meas[4] | Baseline |
| DAT mede | CDADDA | Meas[5] | Baseline |
| PAT mode Accel, factor PE | GRAPPA 2 | Meas[6] | Baseline |
| Ref. lines PE | 24 | Meas[7] | Baseline |
| Matrix Coil Mode | CP | Meas[8] | Baseline |
| Reference scan mode | Separate | Meas[9] | Baseline |
| | | Meas[10] | Baseline |
| Distortion Corr. | Off | Meas[11] | Active |
| Unfiltered images | Off | Meas[12] | Active |
| Prescan Normalize Raw filter | On On | Meas[13] | Active Active |
| Elliptical filter | Off | Meas[14] Meas[15] | Active |
| Hamming | Off | Meas[16] | Active |
| 1 | | Meas[17] | Active |
| Geometry | | - Meas[18] | Active |
| Multi-slice mode | Interleaved | 1 5 3 | |

| Meas[19] | Active |
|-------------------|--------|
| Meas[20] | Active |
| Motion correction | Off |
| Spatial filter | Off |
| | |

| Introduction Bandwidth Free echo spacing Echo spacing | Off 2298 Hz/Px On 0.52 ms |
|---|------------------------------------|
| EPI factor | 64 |
| RF pulse type | Normal |
| Gradient mode | Fast |

\\USER\projects\imagen_fu3\imagen3,session1\EPI_SST_FU3 TA: 12:54 PAT: 2 Voxel size: 3.4×3.4×2.4 mm Rel. SNR: 1.00 SIEMENS: ep2d_bold

| Properties | | Series | Descending |
|--|-------------------|--------------------------|----------------------|
| Prio Recon | Off | Special sat. | None |
| Before measurement | | Set-n-Go Protocol | O# |
| After measurement | | Table position | Off H |
| Load to viewer | On | Table position | 11 mm |
| Inline movie | Off | Inline Composing | Off |
| Auto store images | On | | On |
| Load to stamp segments | Off | System | |
| Load images to graphic | Off | Body | Off |
| segments | Off | HEP | On |
| Auto open inline display Start measurement without | On | HEA | On |
| further preparation | Oli | Positioning mode | ISO |
| Wait for user to start | On | MSMA | S - C - T |
| Start measurements | single | Sagittal | L >> R |
| ı | Sirigio | Coronal | P >> A |
| Routine | | Transversal | F >> H |
| Slice group 1 | | Coil Combine Mode | Sum of Squares |
| Slices | 40 | AutoAlign | |
| Dist. factor | 42 % | Auto Coil Select | Default |
| Position | R4.7 A3.1 H10.8 | Shim mode | Standard |
| Orientation | T > C-14.9 | Adjust with body coil | Off |
| Phase enc. dir. | A >> P | Confirm freq. adjustment | Off |
| Rotation | 0.00 deg | Assume Silicone | Off |
| Phase oversampling | 0 % 220 mm | ? Ref. amplitude 1H | 0.000 V |
| FoV read | 220 mm 100.0 % | Adjustment Tolerance | Auto |
| FoV phase Slice thickness | 2.4 mm | Adjust volume | 71010 |
| TR | 2.4 mm 2200 ms | Position | R4.7 A3.1 H10.8 |
| TE | 30 ms | Orientation | T > C-14.9 |
| Averages | 1 | Rotation | 0.00 deg |
| Concatenations | 1 | R >> L | 220 mm |
| Filter | Prescan Normalize | A >> P | 220 mm |
| Coil elements | HEA;HEP | F >> H | 136 mm |
| ı | | Physio | |
| Contrast | 0" | 1st Signal/Mode | None |
| MTC | Off | • | None |
| Flip angle | 75 deg | BOLD | |
| Fat suppr. | Fat sat. | GLM Statistics | Off |
| Averaging mode | Long term | Dynamic t-maps | Off |
| Reconstruction | Magnitude | Starting ignore meas | 0 |
| Measurements | 349 | Ignore after transition | 0 |
| Delay in TR | 0 ms | Model transition states | Off |
| Multiple series | Off | Temp. highpass filter | Off |
| Resolution | | Threshold | 4.00 |
| Base resolution | 64 | Paradigm size | 20 Baseline |
| Phase resolution | 100 % | Meas[1] | Baseline Baseline |
| Phase partial Fourier | Off | Meas[2] Meas[3] | Baseline Baseline |
| Interpolation | Off | Meas[4] | Baseline |
| | | Meas[4] | Baseline |
| PAT mode | GRAPPA | Meas[6] | Baseline |
| Accel. factor PE | 2 | Meas[7] | Baseline |
| Ref. lines PE | 24 | Meas[8] | Baseline |
| Matrix Coil Mode | CP | Meas[9] | Baseline |
| Reference scan mode | Separate | Meas[10] | Baseline |
| Distortion Corr. | Off | Meas[11] | Active |
| Unfiltered images | Off | Meas[12] | Active |
| Prescan Normalize | On | Meas[13] | Active |
| Raw filter | On | Meas[14] | Active |
| Elliptical filter | Off | Meas[15] | Active |
| Hamming | Off | Meas[16] | Active |
| Geometry | | Meas[17] | Active |
| Multi-slice mode | Interleaved | - Meas[18] | Active |
| I Main-3noe mode | Intelleaved | 40/ | |

| Meas[19] | Active |
|-------------------|--------|
| Meas[20] | Active |
| Motion correction | Off |
| Spatial filter | Off |

| Introduction | Off |
|-------------------|------------|
| Bandwidth | 2298 Hz/Px |
| Free echo spacing | On |
| Echo spacing | 0.52 ms |
| | |
| EPI factor | 64 |
| RF pulse type | Normal |
| Gradient mode | Fast |
| | |

\\USER\projects\imagen_fu3\imagen3,session1\B0 map

SIEMENS: gre_field_mapping

Voxel size: 4.0×4.0×4.0 mm Rel. SNR: 1.00

TA: 0:45

Series

| | | 1 | |
|---------------------------|-------------------------|-----------------------------|------------------|
| roperties | | Special sat. | None |
| Prio Recon | Off | Set-n-Go Protocol | Off |
| Before measurement | | Table position | H |
| After measurement | | Table position | 11 mm |
| Load to viewer | On | Inline Composing | Off |
| Inline movie | Off | Inline Composing | Oli |
| Auto store images | On | System | |
| Load to stamp segments | Off | Body | Off |
| Load images to graphic | Off | HEP | On |
| segments | | HEA | On |
| Auto open inline display | Off | | |
| Start measurement without | On | Positioning mode | FIX |
| further preparation | | MSMA | S - C - T |
| Wait for user to start | On | Sagittal | L >> R |
| Start measurements | single | Coronal | P >> A |
| | 3 - | Transversal | F >> H |
| outine | | Save uncombined | Off |
| Slice group 1 | | Coil Combine Mode | Adaptive Combine |
| Slices | 36 | AutoAlign | |
| Dist. factor | 0 % | Auto Coil Select | Default |
| Position | R4.7 A3.1 H10.8 | | |
| Orientation | T > C-14.9 | Shim mode | Standard |
| Phase enc. dir. | A >> P | Adjust with body coil | Off |
| Rotation | 0.00 deg | Confirm freq. adjustment | Off |
| Phase oversampling | 0 % | Assume Silicone | Off |
| FoV read | 256 mm | ? Ref. amplitude 1H | 0.000 V |
| FoV phase | 87.5 % | Adjustment Tolerance | Auto |
| Slice thickness | 4.0 mm | Adjust volume | |
| TR | 378 ms | Position | R4.7 A3.1 H10.8 |
| TE 1 | 4.63 ms | Orientation | T > C-14.9 |
| TE 2 | 7.09 ms | Rotation | 0.00 deg |
| Averages | 1 | R >> L | 256 mm |
| Concatenations | 1 | A >> P | 224 mm |
| Filter | Raw filter | F >> H | 144 mm |
| Coil elements | HEA;HEP | 1 | |
| | I ILA,I ILF | Composing | |
| Contrast MTC | Off | Sequence | |
| Flip angle | 40 deg | Introduction | On |
| | <u> </u> | Dimension | 2D |
| Fat suppr. | None | Asymmetric echo | Off |
| Averaging mode | Short term | Contrasts | 2 |
| Reconstruction | Magn./Phase | Bandwidth | 260 Hz/Px |
| Measurements | 1 | Flow comp. | Yes |
| Multiple series | Each measurement | DE pulso time | Normal |
| Resolution | | RF pulse type Gradient mode | Normal Fast |
| Base resolution | 64 | RF spoiling | On |
| Phase resolution | 6 4 100 % | spomis | . |
| | | | |
| Phase partial Fourier | Off | | |
| Interpolation | Off | | |
| Matrix Coil Mode | Auto (CP) | | |
| Image Filter | Off | | |
| Distortion Corr. | Off | | |
| Prescan Normalize | Off | | |
| Normalize | Off | | |
| B1 filter | Off | | |
| Raw filter | On | | |
| | Medium | | |
| Intensity | | | |
| Slope | 48 Off | | |
| Elliptical filter | Off | | |
| Geometry | | | |
| Multi-slice mode | Interleaved | | |
| F. O. M. O. O. | | | |

Interleaved

\\USER\projects\imagen_fu3\imagen3,session1\DTI TA: 9:45 PAT: 2 Voxel size: 2.4x2.4x2.4 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff Series Interleaved **Properties** Prio Recon Off Special sat. None Before measurement After measurement Set-n-Go Protocol Off Load to viewer On Table position Н Inline movie Off Table position 11 mm Auto store images On Inline Composing Off Load to stamp segments Off System Load images to graphic Off Body Off segments HEP On Auto open inline display Off HEA On Start measurement without Off further preparation Positioning mode FIX Off Wait for user to start S-C-T **MSMA** Start measurements single Sagittal $L \gg R$ Coronal Routine P >> A Transversal F >> H Slice group 1 Coil Combine Mode Adaptive Combine Slices 60 AutoAlign 0 % Dist factor

| Dist. factor | 0 % | AutoAlign | |
|-----------------------|-------------------------------|--------------------------|-----------------|
| Position | R4.7 A3.1 H10.8 | Auto Coil Select | Default |
| Orientation | T > C-14.9 | Shim mode | Standard |
| Phase enc. dir. | A >> P | Adjust with body coil | Off |
| Rotation | 0.00 deg | Confirm freq. adjustment | Off |
| Phase oversampling | 0 % | Assume Silicone | Off |
| FoV read | 307 mm | ? Ref. amplitude 1H | 0.000 V |
| FoV phase | 100.0 % | | ***** |
| Slice thickness | 2.4 mm | Adjustment Tolerance | Auto |
| TR | 15000 ms | Adjust volume | D47 40 4 H40 0 |
| TE | 104 ms | Position | R4.7 A3.1 H10.8 |
| Averages | 1 | Orientation | T > C-14.9 |
| Concatenations | 1 | Rotation | 0.00 deg |
| Filter | Raw filter, Prescan Normalize | R >> L | 307 mm |
| Coil elements | HEA:HEP | A >> P | 307 mm |
| Con elements | HEA,HEF | F >> H | 144 mm |
| Contrast | | . Physio | |
| MTC | Off | 1st Signal/Mode | None |
| Magn. preparation | None | | |
| Fat suppr. | Fat sat. | Resp. control | Off |
| Averaging mode | Long term | Diff | |
| Reconstruction | Magnitude | Diffusion mode | Free |
| Delay in TR | 0 ms | Diff. weightings | 1 |
| Multiple series | Off | b-value | 1300 s/mm² |
| Resolution | | Diff. weighted images | On |
| Base resolution | 128 | Trace weighted images | Off |
| | | Average ADC maps | Off |
| Phase resolution | 100 % Off | Individual ADC maps | Off |
| Phase partial Fourier | | FA maps | Off |
| Interpolation | Off | Mosaic | Off |
| PAT mode | GRAPPA | Tensor | Off |
| Accel, factor PE | 2 | Noise level | 40 |
| Ref. lines PE | 24 | Diff. directions | 36 |
| Matrix Coil Mode | Auto (Triple) | | |
| Reference scan mode | Separate | Sequence | |
| | ··········· | Introduction | Off |
| Distortion Corr. | Off | Bandwidth | 1860 Hz/Px |
| Prescan Normalize | On | Free echo spacing | On |
| Raw filter | On | Echo spacing | 0.60 ms |
| Intensity | Strong | | 400 |
| Slope | 64 | EPI factor | 128 |
| Elliptical filter | Off | RF pulse type | Normal |
| Hamming | Off | Gradient mode | Fast |
| Geometry | | | |
| Multi-slice mode | Interleaved | • | |
| • | | 16/4 | |

| | \\USER | ?\projects\imagen_fu3\image | n3,session1\EPI_ | _Rest_FU3 |
|----------|--------|-----------------------------|------------------|--------------------|
| TA: 6:07 | PAT: 2 | Voxel size: 3.4x3.4x2.4 mm | Rel. SNR: 1.00 | SIEMENS: ep2d_bold |

| Properties | | Series | Descending |
|---------------------------------|-------------------------------|-------------------------------------|-----------------|
| Prio Recon | Off | Special sat. | None |
| Before measurement | | Set-n-Go Protocol | Off |
| After measurement | _ | Table position | H |
| Load to viewer | On | Table position | 11 mm |
| Inline movie | Off | Inline Composing | Off |
| Auto store images | On Off | | |
| Load to stamp segments | Off Off | System | |
| Load images to graphic segments | Oii | Body | Off |
| Auto open inline display | Off | HEP | On |
| Start measurement without | On | HEA | On |
| further preparation | 011 | Positioning mode | ISO |
| Wait for user to start | On | MSMA | S - C - T |
| Start measurements | single | Sagittal | L >> R |
| 1 | 2.0.9.0 | Coronal | P >> A |
| Routine | | Transversal | F >> H |
| Slice group 1 | 40 | Coil Combine Mode | Sum of Squares |
| Slices | 40 | AutoAlign | |
| Dist. factor | 42 % | Auto Coil Select | Default |
| Position | R4.7 A3.1 H10.8 T > C-14.9 | Shim mode | Standard |
| Orientation Phase enc. dir. | 1 > C-14.9 A >> P | Adjust with body coil | Off |
| Rotation | 0.00 deg | Confirm freq. adjustment | Off |
| Phase oversampling | 0.00 deg 0 % | Assume Silicone | Off |
| FoV read | 220 mm | ? Ref. amplitude 1H | 0.000 V |
| FoV phase | 100.0 % | Adjustment Tolerance | Auto |
| Slice thickness | 2.4 mm | Adjust volume | |
| TR | 2200 ms | Position | R4.7 A3.1 H10.8 |
| TE | 30 ms | Orientation | T > C-14.9 |
| Averages | 1 | Rotation | 0.00 deg |
| Concatenations | 1 | R >> L | 220 mm |
| Filter | Prescan Normalize | A >> P | 220 mm |
| Coil elements | HEA;HEP | F >> H | 136 mm |
| Contrast | | Physio | |
| MTC | Off | 1st Signal/Mode | None |
| Flip angle | 75 deg | 1 | |
| Fat suppr. | Fat sat. | BOLD CLM Statistics | 0# |
| | | GLM Statistics | Off Off |
| Averaging mode | Long term | Dynamic t-maps Starting ignore meas | 0 |
| Reconstruction | Magnitude | Ignore after transition | 0 |
| Measurements | 164 | Model transition states | Off |
| Delay in TR | 0 ms | Temp. highpass filter | Off |
| Multiple series | Off | Threshold | 4.00 |
| Resolution | | Paradigm size | 20 |
| Base resolution | 64 | Meas[1] | Baseline |
| Phase resolution | 100 % | Meas[2] | Baseline |
| Phase partial Fourier | Off | Meas[3] | Baseline |
| Interpolation | Off | Meas[4] | Baseline |
| PAT mode | GRAPPA | Meas[5] | Baseline |
| Accel. factor PE | 2 | Meas[6] | Baseline |
| Ref. lines PE | 24 | Meas[7] | Baseline |
| Matrix Coil Mode | CP | Meas[8] | Baseline |
| Reference scan mode | Separate | Meas[9] | Baseline |
| ······ | | Meas[10] | Baseline |
| Distortion Corr. | Off | Meas[11] | Active |
| Unfiltered images | Off | Meas[12] | Active |
| Prescan Normalize | On | Meas[13] | Active |
| Raw filter | On | Meas[14] | Active |
| Elliptical filter | Off | Meas[15] | Active |
| Hamming | Off | Meas[16] | Active |
| Geometry | | Meas[17] | Active |
| Multi-slice mode | Interleaved | Meas[18] | Active |
| 1 | · - · · · · · - · | 4-7 | |

| Meas[19] | Active |
|-------------------|--------|
| Meas[20] | Active |
| Motion correction | Off |
| Spatial filter | Off |

| Introduction | Off |
|-------------------|------------|
| Bandwidth | 2298 Hz/Px |
| Free echo spacing | On |
| Echo spacing | 0.52 ms |
| EPI factor | 64 |
| RF pulse type | Normal |
| Gradient mode | Fast |
| | |