

SIEMENS MAGNETOM Sonata syngo MR 2004A

\\USER\FUNCTIONAL MRI 270905\ADNI\ADNI-VUMC\localizer

Scan Time: 9.2 [s] Voxel size: 2.2x1.1x10.0 [mm] Rel. SNR: 1.00 SIEMENS: gre

Routine

| | |
|--------------------|----------------------|
| Slice group 1 | |
| Slices | 1 |
| Dist. factor | 20 [%] |
| Position | L0.0 A60.0 H0.0 [mm] |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0 [deg] |
| Slice group 2 | |
| Slices | 1 |
| Dist. factor | 20 [%] |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| Rotation | 0 [deg] |
| Slice group 3 | |
| Slices | 1 |
| Dist. factor | 20 [%] |
| Position | Isocenter |
| Orientation | Coronal |
| Phase enc. dir. | R >> L |
| Rotation | 0 [deg] |
| Phase oversampling | 0 [%] |
| FoV read | 280 [mm] |
| FoV phase | 100.0 [%] |
| Slice thickness | 10 [mm] |
| TR | 20 [ms] |
| TE | 5 [ms] |
| Averages | 1 |
| Concatenations | 3 |
| Filter | Elliptical filter |
| Coil elements | PH1,PH2,PH3,... |

Contrast

| | |
|-------------------|-----------|
| TD | 0 [ms] |
| MTC | 0 |
| Magn. preparation | None |
| Flip angle | 40 [deg] |
| Reconstruction | Magnitude |
| Fat suppr. | None |
| Water suppr. | None |
| Measurements | 1 |

Resolution

| | |
|-----------------------|--------|
| Base resolution | 256 |
| Phase resolution | 50 [%] |
| Phase partial Fourier | Off |
| Filter 1 | |
| Raw filter | Off |
| Filter 2 | |
| Large FoV | Off |
| Filter 3 | |
| Normalize | Off |
| Filter 4 | |
| Elliptical filter | On |
| Interpolation | 1 |
| ----- | |
| PAT mode | None |

Geometry

| | |
|------------------|-------------|
| Multi-slice mode | Sequential |
| Series | Interleaved |
| ----- | |
| Saturation mode | Standard |
| Special sat. | None |

System

| | |
|--------------------------|-------------|
| Save uncombined | 0 |
| Scan at current TP | 1 |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| 8 Channel Head / PH5 | 1 |
| 8 Channel Head / PH6 | 1 |
| 8 Channel Head / PH7 | 1 |
| 8 Channel Head / PH8 | 1 |
| 8 Channel Head / PH1 | 1 |
| 8 Channel Head / PH2 | 1 |
| 8 Channel Head / PH3 | 1 |
| 8 Channel Head / PH4 | 1 |
| Body | 0 |
| ----- | |
| Shim mode | Tune up |
| Adjust with body coil | 0 |
| Confirm freq. adjustment | 0 |
| Assume Silicone | 0 |
| Ref. amplitude [1H] | 200.000 [V] |
| Adjust volume | |
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0 [deg] |
| R >> L | 350 [mm] |
| A >> P | 263 [mm] |
| F >> H | 350 [mm] |

Physio

| | |
|-----------------|------|
| 1st Signal/Mode | None |
| Segments | 1 |
| ----- | |
| Tagging | None |
| Dark blood | 0 |
| ----- | |
| Resp. control | Off |

Inline

| | |
|----------------------|---|
| Subtract | 0 |
| Std-Dev-Sag | 0 |
| Std-Dev-Cor | 0 |
| Std-Dev-Tra | 0 |
| Std-Dev-Time | 0 |
| MIP-Sag | 0 |
| MIP-Cor | 0 |
| MIP-Tra | 0 |
| MIP-Time | 0 |
| Save original images | 1 |
| ----- | |
| Wash - In | 0 |
| Wash - Out | 0 |
| TTP | 0 |
| PEI | 0 |
| MIP - time | 0 |

Sequence

| | |
|---------------------|-------------|
| Introduction | 1 |
| Dimension | 2D |
| Phase stabilisation | 0 |
| Averaging mode | Short term |
| Asymmetric echo | Off |
| Contrasts | 1 |
| Bandwidth | 180 [Hz/Px] |
| Flow comp. | No |

SIEMENS MAGNETOM Sonata syngo MR 2004A

RF pulse type
Gradient mode
Excitation
RF spoiling

Fast
Normal
Slice-sel.
1

SIEMENS MAGNETOM Sonata syngo MR 2004A

\\USER\FUNCTIONAL MRI 270905\ADNI\ADNI-VUMC\tfl_ADNI-MPRAGE

Scan Time: 9:38 Voxel size: 1.3x1.3x1.2 [mm] Rel. SNR: 1.00 USER: tfl_ADNI

Routine

| | |
|--------------------|----------------------|
| Slab group 1 | |
| Slabs | 1 |
| Dist. factor | 50 [%] |
| Position | L0.0 A50.0 H0.0 [mm] |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0 [deg] |
| Phase oversampling | 0 [%] |
| Slice oversampling | 30 [%] |
| Slices per slab | 160 |
| FoV read | 240 [mm] |
| FoV phase | 100.0 [%] |
| Slice thickness | 1.2 [mm] |
| TR | 3000 [ms] |
| TE | 3.54 [ms] |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Normalize |
| Coil elements | PH1,PH2,PH3,... |

Contrast

| | |
|-------------------|-------------|
| Magn. preparation | Non-sel. IR |
| TI | 1000 [ms] |
| Flip angle | 8 [deg] |
| Reconstruction | Magnitude |
| Fat suppr. | None |
| Water suppr. | None |
| Measurements | 1 |

Resolution

| | |
|-----------------------|---------|
| Base resolution | 192 |
| Phase resolution | 100 [%] |
| Slice resolution | 100 [%] |
| Phase partial Fourier | Off |
| Slice partial Fourier | Off |
| Filter 1 | |
| Raw filter | Off |
| Filter 2 | |
| Large FoV | Off |
| Filter 3 | |
| Normalize | On |
| Unfiltered images | 1 |
| Filter 4 | |
| Elliptical filter | Off |
| Interpolation | 0 |
| ----- | |
| PAT mode | None |

Geometry

| | |
|------------------|-------------|
| Multi-slice mode | Single shot |
| Series | Interleaved |

System

| | |
|----------------------|-----------|
| Save uncombined | 0 |
| Scan at current TP | 0 |
| Scan region position | H |
| Scan region position | 0 [mm] |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| 8 Channel Head / PH5 | 1 |
| 8 Channel Head / PH6 | 1 |
| 8 Channel Head / PH7 | 1 |
| 8 Channel Head / PH8 | 1 |

| | |
|----------------------|---|
| 8 Channel Head / PH1 | 1 |
| 8 Channel Head / PH2 | 1 |
| 8 Channel Head / PH3 | 1 |
| 8 Channel Head / PH4 | 1 |
| Body | 0 |

| | |
|--------------------------|----------------------|
| ----- | |
| Shim mode | Standard |
| Adjust with body coil | 0 |
| Confirm freq. adjustment | 0 |
| Assume Silicone | 0 |
| Ref. amplitude [1H] | 200.000 [V] |
| Adjust volume | |
| Position | L0.0 A50.0 H0.0 [mm] |
| Orientation | Sagittal |
| Rotation | 0 [deg] |
| F >> H | 240 [mm] |
| A >> P | 240 [mm] |
| R >> L | 192 [mm] |

Physio

| | |
|-----------------|------|
| 1st Signal/Mode | None |
| ----- | |
| Dark blood | 0 |
| ----- | |
| Resp. control | Off |

Inline

| | |
|----------------------|---|
| Subtract | 0 |
| Std-Dev-Sag | 0 |
| Std-Dev-Cor | 0 |
| Std-Dev-Tra | 0 |
| Std-Dev-Time | 0 |
| MIP-Sag | 0 |
| MIP-Cor | 0 |
| MIP-Tra | 0 |
| MIP-Time | 0 |
| Save original images | 1 |

Sequence

| | |
|---------------------|-------------|
| Introduction | 1 |
| Dimension | 3D |
| Elliptical scanning | 0 |
| Averaging mode | Long term |
| Asymmetric echo | Off |
| Bandwidth | 180 [Hz/Px] |
| Echo spacing | 8.5 [ms] |
| ----- | |
| RF pulse type | Fast |
| Gradient mode | Normal |
| Excitation | Non-sel. |
| RF spoiling | 1 |

SIEMENS MAGNETOM Sonata syngo MR 2004A

\\USER\FUNCTIONAL MRI 270905\ADNI\ADNI-VUMC\gre_ADNI-headcoil
 Scan Time: 0:42 Voxel size: 2.3x2.3x2.5 [mm] Rel. SNR: 1.00 USER: gre_ADNI

Routine

| | |
|--------------------|----------------------|
| Slab group 1 | |
| Slabs | 1 |
| Dist. factor | 20 [%] |
| Position | L0.0 A50.0 H0.0 [mm] |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0 [deg] |
| Phase oversampling | 0 [%] |
| Slice oversampling | 0 [%] |
| Slices per slab | 96 |
| FoV read | 300 [mm] |
| FoV phase | 100.0 [%] |
| Slice thickness | 2.5 [mm] |
| TR | 3.3 [ms] |
| TE | 1.08 [ms] |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Large FoV |
| Coil elements | PH1,PH2,PH3,... |

Contrast

| | |
|-------------------|-----------|
| MTC | 0 |
| Magn. preparation | None |
| Flip angle | 2 [deg] |
| Reconstruction | Magnitude |
| Fat suppr. | None |
| Water suppr. | None |
| Measurements | 1 |

Resolution

| | |
|-----------------------|---------|
| Base resolution | 128 |
| Phase resolution | 100 [%] |
| Slice resolution | 100 [%] |
| Phase partial Fourier | Off |
| Slice partial Fourier | Off |
| Filter 1 | |
| Raw filter | Off |
| Filter 2 | |
| Large FoV | On |
| Filter 3 | |
| Normalize | Off |
| Filter 4 | |
| Elliptical filter | Off |
| Interpolation | 0 |
| ----- | |
| PAT mode | None |

Geometry

| | |
|------------------|-------------|
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| ----- | |
| Saturation mode | Standard |
| Special sat. | None |

System

| | |
|----------------------|-----------|
| Save uncombined | 0 |
| Scan at current TP | 0 |
| Scan region position | H |
| Scan region position | 0 [mm] |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| 8 Channel Head / PH5 | 1 |
| 8 Channel Head / PH6 | 1 |

| | |
|--------------------------|----------------------|
| 8 Channel Head / PH7 | 1 |
| 8 Channel Head / PH8 | 1 |
| 8 Channel Head / PH1 | 1 |
| 8 Channel Head / PH2 | 1 |
| 8 Channel Head / PH3 | 1 |
| 8 Channel Head / PH4 | 1 |
| Body | 0 |
| ----- | |
| Shim mode | Standard |
| Adjust with body coil | 0 |
| Confirm freq. adjustment | 0 |
| Assume Silicone | 0 |
| Ref. amplitude [1H] | 200.000 [V] |
| Adjust volume | |
| Position | L0.0 A50.0 H0.0 [mm] |
| Orientation | Sagittal |
| Rotation | 0 [deg] |
| F >> H | 300 [mm] |
| A >> P | 300 [mm] |
| R >> L | 240 [mm] |

Physio

| | |
|-----------------|------|
| 1st Signal/Mode | None |
| Segments | 1 |
| ----- | |
| Tagging | None |
| Dark blood | 0 |
| ----- | |
| Resp. control | Off |

Inline

| | |
|----------------------|---|
| Subtract | 0 |
| Std-Dev-Sag | 0 |
| Std-Dev-Cor | 0 |
| Std-Dev-Tra | 0 |
| Std-Dev-Time | 0 |
| MIP-Sag | 0 |
| MIP-Cor | 0 |
| MIP-Tra | 0 |
| MIP-Time | 0 |
| Save original images | 1 |
| ----- | |
| Wash - In | 0 |
| Wash - Out | 0 |
| TTP | 0 |
| PEI | 0 |
| MIP - time | 0 |

Sequence

| | |
|---------------------|-------------|
| Introduction | 1 |
| Dimension | 3D |
| Elliptical scanning | 0 |
| Phase stabilisation | 0 |
| Averaging mode | Long term |
| Asymmetric echo | Off |
| Contrasts | 1 |
| Bandwidth | 980 [Hz/Px] |
| Flow comp. | No |
| ----- | |
| RF pulse type | Fast |
| Gradient mode | Fast |
| Excitation | Non-sel. |
| RF spoiling | 1 |

SIEMENS MAGNETOM Sonata syngo MR 2004A

\\USER\FUNCTIONAL MRI 270905\ADNI\ADNI-VUMC\gre_ADNI-bodycoil
 Scan Time: 0:42 Voxel size: 2.3x2.3x2.5 [mm] Rel. SNR: 1.00 USER: gre_ADNI

Routine

| | |
|--------------------|----------------------|
| Slab group 1 | |
| Slabs | 1 |
| Dist. factor | 20 [%] |
| Position | L0.0 A50.0 H0.0 [mm] |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0 [deg] |
| Phase oversampling | 0 [%] |
| Slice oversampling | 0 [%] |
| Slices per slab | 96 |
| FoV read | 300 [mm] |
| FoV phase | 100.0 [%] |
| Slice thickness | 2.5 [mm] |
| TR | 3.3 [ms] |
| TE | 1.08 [ms] |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Large FoV |
| Coil elements | BC |

Contrast

| | |
|-------------------|-----------|
| MTC | 0 |
| Magn. preparation | None |
| Flip angle | 2 [deg] |
| Reconstruction | Magnitude |
| Fat suppr. | None |
| Water suppr. | None |
| Measurements | 1 |

Resolution

| | |
|-----------------------|---------|
| Base resolution | 128 |
| Phase resolution | 100 [%] |
| Slice resolution | 100 [%] |
| Phase partial Fourier | Off |
| Slice partial Fourier | Off |
| Filter 1 | |
| Raw filter | Off |
| Filter 2 | |
| Large FoV | On |
| Filter 3 | |
| Normalize | Off |
| Filter 4 | |
| Elliptical filter | Off |
| Interpolation | 0 |
| ----- | |
| PAT mode | None |

Geometry

| | |
|------------------|-------------|
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| ----- | |
| Saturation mode | Standard |
| Special sat. | None |

System

| | |
|----------------------|-----------|
| Save uncombined | 0 |
| Scan at current TP | 0 |
| Scan region position | H |
| Scan region position | 0 [mm] |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| 8 Channel Head / PH5 | 0 |
| 8 Channel Head / PH6 | 0 |

| | |
|----------------------|---|
| 8 Channel Head / PH7 | 0 |
| 8 Channel Head / PH8 | 0 |
| 8 Channel Head / PH1 | 0 |
| 8 Channel Head / PH2 | 0 |
| 8 Channel Head / PH3 | 0 |
| 8 Channel Head / PH4 | 0 |
| Body | 1 |

| | |
|--------------------------|----------------------|
| Shim mode | Standard |
| Adjust with body coil | 0 |
| Confirm freq. adjustment | 0 |
| Assume Silicone | 0 |
| Ref. amplitude [1H] | 200.000 [V] |
| Adjust volume | |
| Position | L0.0 A50.0 H0.0 [mm] |
| Orientation | Sagittal |
| Rotation | 0 [deg] |
| F >> H | 300 [mm] |
| A >> P | 300 [mm] |
| R >> L | 240 [mm] |

Physio

| | |
|-----------------|------|
| 1st Signal/Mode | None |
| Segments | 1 |
| ----- | |
| Tagging | None |
| Dark blood | 0 |
| ----- | |
| Resp. control | Off |

Inline

| | |
|----------------------|---|
| Subtract | 0 |
| Std-Dev-Sag | 0 |
| Std-Dev-Cor | 0 |
| Std-Dev-Tra | 0 |
| Std-Dev-Time | 0 |
| MIP-Sag | 0 |
| MIP-Cor | 0 |
| MIP-Tra | 0 |
| MIP-Time | 0 |
| Save original images | 1 |
| ----- | |
| Wash - In | 0 |
| Wash - Out | 0 |
| TTP | 0 |
| PEI | 0 |
| MIP - time | 0 |

Sequence

| | |
|---------------------|-------------|
| Introduction | 1 |
| Dimension | 3D |
| Elliptical scanning | 0 |
| Phase stabilisation | 0 |
| Averaging mode | Long term |
| Asymmetric echo | Off |
| Contrasts | 1 |
| Bandwidth | 980 [Hz/Px] |
| Flow comp. | No |
| ----- | |
| RF pulse type | Fast |
| Gradient mode | Fast |
| Excitation | Non-sel. |
| RF spoiling | 1 |

SIEMENS MAGNETOM Sonata syngo MR 2004A

\\USER\FUNCTIONAL MRI 270905\ADNI\ADNI-VUMC\PD-T2-TSE-ADNI
 Scan Time: 5:08 Voxel size: 0.9x0.9x3.0 [mm] Rel. SNR: 1.00 SIEMENS: tse

Routine

| | |
|--------------------|----------------------|
| Slice group 1 | |
| Slices | 48 |
| Dist. factor | 0 [%] |
| Position | L0.0 A50.0 H0.0 [mm] |
| Orientation | Transversal |
| Phase enc. dir. | R >> L |
| Rotation | 90 [deg] |
| Phase oversampling | 0 [%] |
| FoV read | 240 [mm] |
| FoV phase | 89.1 [%] |
| Slice thickness | 3 [mm] |
| TR | 3000 [ms] |
| TE[1] | 12 [ms] |
| TE[2] | 96 [ms] |
| Averages | 1 |
| Concatenations | 3 |
| Filter | Large FoV, ... |
| Coil elements | PH1,PH2,PH3,... |

| | |
|----------------------|---|
| 8 Channel Head / PH4 | 1 |
| 8 Channel Head / PH5 | 1 |
| 8 Channel Head / PH6 | 1 |
| 8 Channel Head / PH7 | 1 |
| 8 Channel Head / PH8 | 1 |
| Body | 0 |

| | |
|--------------------------|-------------|
| Shim mode | Tune up |
| Adjust with body coil | 0 |
| Confirm freq. adjustment | 0 |
| Assume Silicone | 0 |
| Ref. amplitude [1H] | 200.000 [V] |
| Adjust volume | |
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0 [deg] |
| R >> L | 350 [mm] |
| A >> P | 263 [mm] |
| F >> H | 350 [mm] |

Contrast

| | |
|-------------------|-----------|
| TD | 0 [ms] |
| MTC | 0 |
| Magn. preparation | None |
| Flip angle | 150 [deg] |
| Reconstruction | Magnitude |
| Fat suppr. | None |
| Fat sat. mode | Strong |
| Water suppr. | None |
| Measurements | 1 |

Physio

| | |
|-----------------|------|
| 1st Signal/Mode | None |
| Dark blood | 0 |
| Resp. control | Off |

Resolution

| | |
|-----------------------|---------|
| Base resolution | 256 |
| Phase resolution | 100 [%] |
| Phase partial Fourier | Off |
| Filter 1 | |
| Raw filter | Off |
| Filter 2 | |
| Large FoV | On |
| Filter 3 | |
| Normalize | On |
| Unfiltered images | 0 |
| Filter 4 | |
| Elliptical filter | Off |
| Interpolation | 0 |
| ----- | |
| PAT mode | None |

Inline

| | |
|----------------------|---|
| Subtract | 0 |
| Std-Dev-Sag | 0 |
| Std-Dev-Cor | 0 |
| Std-Dev-Tra | 0 |
| Std-Dev-Time | 0 |
| MIP-Sag | 0 |
| MIP-Cor | 0 |
| MIP-Tra | 0 |
| MIP-Time | 0 |
| Save original images | 1 |

Sequence

| | |
|---------------------|-------------|
| Introduction | 1 |
| Dimension | 2D |
| Compensate T2 decay | 0 |
| Averaging mode | Long term |
| Contrasts | 2 |
| Bandwidth | 163 [Hz/Px] |
| Flow comp. | No |
| Allowed delay | 30 [s] |
| Echo spacing | 12 [ms] |
| ----- | |
| Turbo factor | 7 |
| RF pulse type | Low SAR |
| Gradient mode | Normal |

Geometry

| | |
|------------------|-------------|
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| ----- | |
| Special sat. | Parallel F |
| Gap | 10 [mm] |
| Thickness | 50 [mm] |

System

| | |
|----------------------|-----------|
| Save uncombined | 0 |
| Scan at current TP | 1 |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| 8 Channel Head / PH1 | 1 |
| 8 Channel Head / PH2 | 1 |
| 8 Channel Head / PH3 | 1 |

SIEMENS MAGNETOM Sonata syngo MR 2004A

\\USER\FUNCTIONAL MRI 270905\ADNI\ADNI-VUMC\RS-FMRI-BW2004

Scan Time: 9:36 Voxel size: 3.3x3.3x3.0 [mm] Rel. SNR: 1.00 SIEMENS: ep2d_bold

Routine

| | |
|--------------------|----------------------|
| Slice group 1 | |
| Slices | 36 |
| Dist. factor | 10 [%] |
| Position | L0.0 A50.0 H0.0 [mm] |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| Rotation | 0 [deg] |
| Phase oversampling | 0 [%] |
| FoV read | 211 [mm] |
| FoV phase | 100.0 [%] |
| Slice thickness | 3 [mm] |
| TR | 2850 [ms] |
| TE | 60 [ms] |
| Averages | 1 |
| Concatenations | 1 |
| Filter | None |
| Coil elements | PH1,PH2,PH3,... |

Contrast

| | |
|-----------------|-----------|
| MTC | 0 |
| Flip angle | 90 [deg] |
| Reconstruction | Magnitude |
| Fat suppr. | None |
| Measurements | 200 |
| Delay in TR | 0 [ms] |
| Multiple series | 0 |

Resolution

| | |
|-----------------------|---------|
| Base resolution | 64 |
| Phase resolution | 100 [%] |
| Phase partial Fourier | Off |
| Filter 1 | |
| Raw filter | Off |
| Interpolation | 0 |

PAT mode None

Geometry

| | |
|------------------|-------------|
| Multi-slice mode | Interleaved |
| Series | Ascending |
| Special sat. | None |

System

| | |
|--------------------------|-------------|
| Scan at current TP | 0 |
| Scan region position | H |
| Scan region position | 0 [mm] |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| 8 Channel Head / PH1 | 1 |
| 8 Channel Head / PH2 | 1 |
| 8 Channel Head / PH3 | 1 |
| 8 Channel Head / PH4 | 1 |
| 8 Channel Head / PH5 | 1 |
| 8 Channel Head / PH6 | 1 |
| 8 Channel Head / PH7 | 1 |
| 8 Channel Head / PH8 | 1 |
| Body | 0 |
| Shim mode | Standard |
| Adjust with body coil | 0 |
| Confirm freq. adjustment | 0 |
| Assume Silicone | 0 |
| Ref. amplitude [1H] | 200.000 [V] |

Adjust volume

| | |
|-------------|----------------------|
| Position | L0.0 A50.0 H0.0 [mm] |
| Orientation | Transversal |
| Rotation | 0 [deg] |
| R >> L | 211 [mm] |
| A >> P | 211 [mm] |
| F >> H | 119 [mm] |

Physio

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

BOLD

| | |
|----------------------|---------|
| t-Test | 0 |
| Threshold | 4.00 |
| Window | Growing |
| Dynamic t-maps | 0 |
| Starting ignore meas | 0 |
| Paradigm size | 1 |
| Meas | Ignore |
| Motion correction | 0 |
| Spatial filter | 0 |

Sequence

| | |
|-------------------|--------------|
| Introduction | 0 |
| Averaging mode | Long term |
| Bandwidth | 2004 [Hz/Px] |
| Free echo spacing | 0 |
| Echo spacing | 0.56 [ms] |
| EPI factor | 64 |
| RF pulse type | Normal |
| Gradient mode | Fast |

SIEMENS MAGNETOM Sonata syngo MR 2004A

\\USER\FUNCTIONAL MRI 270905\ADNI\ADNI-VUMC\RS-FMRI-BW1562

Scan Time: 10:05 Voxel size: 3.3x3.3x3.0 [mm] Rel. SNR: 1.00 SIEMENS: ep2d_bold

Routine

| | |
|--------------------|----------------------|
| Slice group 1 | |
| Slices | 36 |
| Dist. factor | 10 [%] |
| Position | L0.0 A50.0 H0.0 [mm] |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| Rotation | 0 [deg] |
| Phase oversampling | 0 [%] |
| FoV read | 211 [mm] |
| FoV phase | 100.0 [%] |
| Slice thickness | 3 [mm] |
| TR | 3010 [ms] |
| TE | 60 [ms] |
| Averages | 1 |
| Concatenations | 1 |
| Filter | None |
| Coil elements | PH1,PH2,PH3,... |

Contrast

| | |
|-----------------|-----------|
| MTC | 0 |
| Flip angle | 90 [deg] |
| Reconstruction | Magnitude |
| Fat suppr. | None |
| Measurements | 200 |
| Delay in TR | 0 [ms] |
| Multiple series | 0 |

Resolution

| | |
|-----------------------|---------|
| Base resolution | 64 |
| Phase resolution | 100 [%] |
| Phase partial Fourier | Off |
| Filter 1 | |
| Raw filter | Off |
| Interpolation | 0 |
| ----- | |
| PAT mode | None |

Geometry

| | |
|------------------|-------------|
| Multi-slice mode | Interleaved |
| Series | Ascending |
| ----- | |
| Special sat. | None |

System

| | |
|--------------------------|-------------|
| Scan at current TP | 0 |
| Scan region position | H |
| Scan region position | 0 [mm] |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| 8 Channel Head / PH1 | 1 |
| 8 Channel Head / PH2 | 1 |
| 8 Channel Head / PH3 | 1 |
| 8 Channel Head / PH4 | 1 |
| 8 Channel Head / PH5 | 1 |
| 8 Channel Head / PH6 | 1 |
| 8 Channel Head / PH7 | 1 |
| 8 Channel Head / PH8 | 1 |
| Body | 0 |
| ----- | |
| Shim mode | Standard |
| Adjust with body coil | 0 |
| Confirm freq. adjustment | 0 |
| Assume Silicone | 0 |
| Ref. amplitude [1H] | 200.000 [V] |

Adjust volume

| | |
|-------------|----------------------|
| Position | L0.0 A50.0 H0.0 [mm] |
| Orientation | Transversal |
| Rotation | 0 [deg] |
| R >> L | 211 [mm] |
| A >> P | 211 [mm] |
| F >> H | 119 [mm] |

Physio

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

BOLD

| | |
|----------------------|---------|
| t-Test | 0 |
| Threshold | 4.00 |
| Window | Growing |
| Dynamic t-maps | 0 |
| Starting ignore meas | 0 |
| Paradigm size | 1 |
| Meas | Ignore |
| Motion correction | 0 |
| Spatial filter | 0 |

Sequence

| | |
|-------------------|--------------|
| Introduction | 0 |
| Averaging mode | Long term |
| Bandwidth | 1562 [Hz/Px] |
| Free echo spacing | 0 |
| Echo spacing | 0.7 [ms] |
| ----- | |
| EPI factor | 64 |
| RF pulse type | Normal |
| Gradient mode | Fast |

SIEMENS MAGNETOM Sonata syngo MR 2004A

\\USER\FUNCTIONAL MRI 270905\ADNI\ADNI-VUMC\DTI-6directions-2.5x2.5x3
 + Scan Time: 3:17 Voxel size: 2.5x2.5x3.0 [mm] Rel. SNR: 1.00 SIEMENS: ep2d_diff

Routine

| | |
|--------------------|-----------------|
| Slice group 1 | |
| Slices | 48 |
| Dist. factor | 0 [%] |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| Rotation | 0 [deg] |
| Phase oversampling | 0 [%] |
| FoV read | 320 [mm] |
| FoV phase | 75.0 [%] |
| Slice thickness | 3 [mm] |
| TR | 6800 [ms] |
| TE | 87 [ms] |
| Averages | 4 |
| Concatenations | 1 |
| Filter | Large FoV |
| Coil elements | PH1,PH2,PH3,... |

Contrast

| | |
|-------------------|-----------|
| MTC | 0 |
| Magn. preparation | None |
| Reconstruction | Magnitude |
| Fat suppr. | Fat sat. |
| Measurements | 1 |
| Delay in TR | 0 [ms] |

Resolution

| | |
|-----------------------|---------|
| Base resolution | 128 |
| Phase resolution | 100 [%] |
| Phase partial Fourier | Off |
| Filter 1 | |
| Raw filter | Off |
| Filter 2 | |
| Large FoV | On |
| Filter 3 | |
| Normalize | Off |
| Filter 4 | |
| Elliptical filter | Off |
| Interpolation | 0 |
| ----- | |
| PAT mode | None |

Geometry

| | |
|------------------|-------------|
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| ----- | |
| Special sat. | None |

System

| | |
|-----------------------|-----------|
| Scan at current TP | 1 |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| 8 Channel Head / PH1 | 1 |
| 8 Channel Head / PH2 | 1 |
| 8 Channel Head / PH3 | 1 |
| 8 Channel Head / PH4 | 1 |
| 8 Channel Head / PH5 | 1 |
| 8 Channel Head / PH6 | 1 |
| 8 Channel Head / PH7 | 1 |
| 8 Channel Head / PH8 | 1 |
| Body | 0 |
| ----- | |
| Shim mode | Standard |
| Adjust with body coil | 0 |

| | |
|--------------------------|-------------|
| Confirm freq. adjustment | 0 |
| Assume Silicone | 0 |
| Ref. amplitude [1H] | 200.000 [V] |
| Adjust volume | |
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0 [deg] |
| R >> L | 320 [mm] |
| A >> P | 240 [mm] |
| F >> H | 144 [mm] |

Physio

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

Diff

| | |
|-----------------------|--------------------------|
| Diffusion mode | MDDW |
| Diff. weightings | 2 |
| b-value[1] | 0 [s/mm ²] |
| b-value[2] | 900 [s/mm ²] |
| Diff. weighted images | 1 |
| Trace weighted images | 0 |
| Average ADC maps | 0 |
| Individual ADC maps | 0 |
| Noise level | 40 |
| Diff. directions | 6 |

Sequence

| | |
|-------------------|--------------|
| Introduction | 0 |
| Averaging mode | Long term |
| Bandwidth | 1562 [Hz/Px] |
| Free echo spacing | 0 |
| Echo spacing | 0.7 [ms] |
| ----- | |
| EPI factor | 96 |
| RF pulse type | Normal |
| Gradient mode | Fast |

SIEMENS MAGNETOM Sonata syngo MR 2004A

\\USER\FUNCTIONAL MRI 270905\ADNI\ADNI-VUMC\DTI-12directions-2.5x2.5x3
 + Scan Time: 3:12 Voxel size: 2.5x2.5x3.0 [mm] Rel. SNR: 1.00 SIEMENS: ep2d_diff

Routine

| | |
|--------------------|-----------------|
| Slice group 1 | |
| Slices | 48 |
| Dist. factor | 0 [%] |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| Rotation | 0 [deg] |
| Phase oversampling | 0 [%] |
| FoV read | 320 [mm] |
| FoV phase | 75.0 [%] |
| Slice thickness | 3 [mm] |
| TR | 7100 [ms] |
| TE | 94 [ms] |
| Averages | 2 |
| Concatenations | 1 |
| Filter | Large FoV |
| Coil elements | PH1,PH2,PH3,... |

Contrast

| | |
|-------------------|-----------|
| MTC | 0 |
| Magn. preparation | None |
| Reconstruction | Magnitude |
| Fat suppr. | Fat sat. |
| Measurements | 1 |
| Delay in TR | 0 [ms] |

Resolution

| | |
|-----------------------|---------|
| Base resolution | 128 |
| Phase resolution | 100 [%] |
| Phase partial Fourier | Off |
| Filter 1 | |
| Raw filter | Off |
| Filter 2 | |
| Large FoV | On |
| Filter 3 | |
| Normalize | Off |
| Filter 4 | |
| Elliptical filter | Off |
| Interpolation | 0 |
| ----- | |
| PAT mode | None |

Geometry

| | |
|------------------|-------------|
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| ----- | |
| Special sat. | None |

System

| | |
|-----------------------|-----------|
| Scan at current TP | 1 |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| 8 Channel Head / PH1 | 1 |
| 8 Channel Head / PH2 | 1 |
| 8 Channel Head / PH3 | 1 |
| 8 Channel Head / PH4 | 1 |
| 8 Channel Head / PH5 | 1 |
| 8 Channel Head / PH6 | 1 |
| 8 Channel Head / PH7 | 1 |
| 8 Channel Head / PH8 | 1 |
| Body | 0 |
| ----- | |
| Shim mode | Standard |
| Adjust with body coil | 0 |

| | |
|--------------------------|-------------|
| Confirm freq. adjustment | 0 |
| Assume Silicone | 0 |
| Ref. amplitude [1H] | 200.000 [V] |
| Adjust volume | |
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0 [deg] |
| R >> L | 320 [mm] |
| A >> P | 240 [mm] |
| F >> H | 144 [mm] |

Physio

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

Diff

| | |
|-----------------------|--------------------------|
| Diffusion mode | MDDW |
| Diff. weightings | 2 |
| b-value[1] | 0 [s/mm ²] |
| b-value[2] | 900 [s/mm ²] |
| Diff. weighted images | 1 |
| Trace weighted images | 0 |
| Average ADC maps | 0 |
| Individual ADC maps | 0 |
| Noise level | 40 |
| Diff. directions | 12 |

Sequence

| | |
|-------------------|--------------|
| Introduction | 0 |
| Averaging mode | Long term |
| Bandwidth | 1562 [Hz/Px] |
| Free echo spacing | 0 |
| Echo spacing | 0.7 [ms] |
| ----- | |
| EPI factor | 96 |
| RF pulse type | Normal |
| Gradient mode | Fast |