

Table of contents**\\SiemensApps****Handover****AppsTraining****day0**

localizer
gre_field_mapping_tra
b1map_tra_p2
tfl_rfmap_B1shim
resolve
ep2d_bold
svs_se

\\SiemensApps\Handover\AppsTraining\day0\localizer

TA: 0:15 PM: REF Voxel size: 0.5×0.5×5.0 mmPAT: Off Rel. SNR: 1.00 : qfl

Properties

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

Routine

| | |
|--------------------|-------------------|
| Slice group | 1 |
| Slices | 1 |
| Dist. factor | 20 % |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 1 |
| Dist. factor | 20 % |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| Slice group | 3 |
| Slices | 1 |
| Dist. factor | 20 % |
| Position | Isocenter |
| Orientation | Coronal |
| Phase enc. dir. | R >> L |
| AutoAlign | --- |
| Phase oversampling | 0 % |
| FoV read | 250 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 8.6 ms |
| TE | 3.69 ms |
| Averages | 2 |
| Concatenations | 3 |
| Filter | Elliptical filter |
| Coil elements | AC |

Contrast - Common

| | |
|-------------------|---------|
| TR | 8.6 ms |
| TE | 3.69 ms |
| TD | 0 ms |
| MTC | Off |
| Magn. preparation | None |
| Flip angle | 20 deg |
| Fat suppr. | None |
| Water suppr. | None |
| SWI | Off |

Contrast - Dynamic

| | |
|----------------|------------|
| Averages | 2 |
| Averaging mode | Short term |
| Reconstruction | Magnitude |
| Measurements | 1 |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Multiple series | Each measurement |
|-----------------|------------------|

Resolution - Common

| | |
|-----------------------|---------|
| FoV read | 250 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| Base resolution | 256 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | On |

Resolution - iPAT

| | |
|----------|------|
| PAT mode | None |
|----------|------|

Resolution - Filter Image

| | |
|-------------------|-----|
| Image Filter | Off |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| | |
|-------------------|-----|
| Raw filter | Off |
| Elliptical filter | On |

Geometry - Common

| | |
|------------------|-------------|
| Slice group | 1 |
| Slices | 1 |
| Dist. factor | 20 % |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 1 |
| Dist. factor | 20 % |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| Slice group | 3 |
| Slices | 1 |
| Dist. factor | 20 % |
| Position | Isocenter |
| Orientation | Coronal |
| Phase enc. dir. | R >> L |
| FoV read | 250 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 8.6 ms |
| Multi-slice mode | Sequential |
| Series | Interleaved |
| Concatenations | 3 |

Geometry - AutoAlign

| | |
|-----------------|-------------|
| Slice group | 1 |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Position | Isocenter |
| Orientation | Transversal |

Geometry - AutoAlign

| | |
|---------------------|-----------|
| Phase enc. dir. | A >> P |
| Slice group | 3 |
| Position | Isocenter |
| Orientation | Coronal |
| Phase enc. dir. | R >> L |
| AutoAlign | --- |
| Initial Position | Isocenter |
| L | 0.0 mm |
| P | 0.0 mm |
| H | 0.0 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |

Geometry - Saturation

| | |
|-----------------|----------|
| Saturation mode | Standard |
| Fat suppr. | None |
| Water suppr. | None |
| Special sat. | None |

Geometry - Tim Planning Suite

| | |
|-------------------|------|
| Set-n-Go Protocol | Off |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

Geometry - Tim CT

| | |
|-----------------|---------|
| Tim CT mode | Off |
| Slices | 1 |
| Slice thickness | 5.0 mm |
| Dist. factor | 20 % |
| FoV read | 250 mm |
| FoV phase | 100.0 % |
| Segments | 1 |

System - Miscellaneous

| | |
|---------------------|----------------------|
| Positioning mode | REF |
| Table position | F |
| Table position | 0 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | --- |
| Coil Select Mode | Off - AutoCoilSelect |

System - Adjustments

| | |
|--------------------------|----------|
| B0 Shim mode | Tune up |
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

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 - pTx Volumes

| | |
|--------------|------------|
| B1 Shim mode | TrueForm |
| Excitation | Slice-sel. |

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 297.179496 MHz |
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Physio - Signal1

| | |
|-----------------|--------|
| 1st Signal/Mode | None |
| TR | 8.6 ms |
| Concatenations | 3 |
| Segments | 1 |

Physio - Cardiac

| | |
|-------------------|---------|
| Tagging | None |
| Magn. preparation | None |
| Fat suppr. | None |
| Dark blood | Off |
| FoV read | 250 mm |
| FoV phase | 100.0 % |
| Phase resolution | 100 % |

Physio - PACE

| | |
|----------------|-----|
| Resp. control | Off |
| Concatenations | 3 |

Inline - Common

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Liver registration | Off |
| Save original images | On |

Inline - MIP

| | |
|----------------------|-----|
| MIP-Sag | Off |
| MIP-Cor | Off |
| MIP-Tra | Off |
| MIP-Time | Off |
| Save original images | On |

Inline - Soft Tissue

| | |
|--------------|-----|
| Wash - In | Off |
| Wash - Out | Off |
| TTP | Off |
| PEI | Off |
| MIP - time | Off |
| Measurements | 1 |

Inline - Composing

| | |
|------------------|-----|
| Inline Composing | Off |
| Distortion Corr. | Off |

Inline - MapIt

| | |
|----------------------|--------|
| Save original images | On |
| MapIt | None |
| Flip angle | 20 deg |
| Measurements | 1 |
| Contrasts | 1 |
| TR | 8.6 ms |

Inline - MapIt

| | |
|----|---------|
| TE | 3.69 ms |
|----|---------|

Sequence - Part 1

| | |
|---------------------|------------|
| Introduction | On |
| Dimension | 2D |
| Phase stabilisation | Off |
| Asymmetric echo | Allowed |
| Contrasts | 1 |
| Flow comp. | No |
| Multi-slice mode | Sequential |
| Bandwidth | 320 Hz/Px |

Sequence - Part 2

| | |
|--------------------------|------------|
| Segments | 1 |
| Acoustic noise reduction | Active |
| RF pulse type | Normal |
| Gradient mode | Normal |
| Excitation | Slice-sel. |
| RF spoiling | On |

Sequence - Assistant

| | |
|------|-----|
| Mode | Off |
|------|-----|

\\SiemensApps\Handover\AppsTraining\day0\gre_field_mapping_tra

TA: 0:29 PM: REF Voxel size: 4.0×4.0×4.0 mmRel. SNR: 1.00 : fm_r

Properties

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

Routine

| | |
|--------------------|-------------------|
| Slice group | 1 |
| Slices | 30 |
| Dist. factor | 0 % |
| Position | L2.4 P0.0 F8.4 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| FoV read | 256 mm |
| FoV phase | 100.0 % |
| Slice thickness | 4.0 mm |
| TR | 225.0 ms |
| TE 1 | 3.06 ms |
| TE 2 | 4.08 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | None |
| Coil elements | AC |

Contrast - Common

| | |
|------------|----------|
| TR | 225.0 ms |
| TE 1 | 3.06 ms |
| TE 2 | 4.08 ms |
| MTC | Off |
| Flip angle | 25 deg |
| Fat suppr. | None |

Contrast - Dynamic

| | |
|-----------------|-------------|
| Averages | 1 |
| Averaging mode | Short term |
| Reconstruction | Magn./Phase |
| Measurements | 1 |
| Multiple series | Off |

Resolution - Common

| | |
|-----------------------|---------|
| FoV read | 256 mm |
| FoV phase | 100.0 % |
| Slice thickness | 4.0 mm |
| Base resolution | 64 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |

Resolution - Filter Image

| | |
|------------------|-----|
| Image Filter | Off |
| Distortion Corr. | Off |

Resolution - Filter Image

| | |
|-------------------|-----|
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| | |
|-------------------|-----|
| Raw filter | Off |
| Elliptical filter | Off |

Geometry - Common

| | |
|------------------|-------------------|
| Slice group | 1 |
| Slices | 30 |
| Dist. factor | 0 % |
| Position | L2.4 P0.0 F8.4 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| FoV read | 256 mm |
| FoV phase | 100.0 % |
| Slice thickness | 4.0 mm |
| TR | 225.0 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|-------------------|
| Slice group | 1 |
| Position | L2.4 P0.0 F8.4 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Initial Position | L2.4 P0.0 F8.4 |
| L | 2.4 mm |
| P | 0.0 mm |
| F | 8.4 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Transversal |

Geometry - Saturation

| | |
|--------------|------|
| Fat suppr. | None |
| Special sat. | None |

Geometry - Tim Planning Suite

| | |
|-------------------|------|
| Set-n-Go Protocol | Off |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System - Miscellaneous

| | |
|---------------------|----------------|
| Positioning mode | REF |
| Table position | H |
| Table position | 0 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | Head > Brain |
| Coil Select Mode | Default |

System - Adjustments

| | |
|--------------------------|----------|
| B0 Shim mode | Brain |
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| | |
|-------------|-------------------|
| Position | L2.4 P0.0 F8.4 mm |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 256 mm |
| R >> L | 256 mm |
| F >> H | 120 mm |
| Reset | Off |

System - pTx Volumes

| | |
|--------------|----------|
| B1 Shim mode | TrueForm |
|--------------|----------|

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 297.179496 MHz |
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Sequence - Part 1

| | |
|------------------|-------------|
| Introduction | Off |
| Dimension | 2D |
| Asymmetric echo | Off |
| Contrasts | 2 |
| Flow comp. | Yes |
| Multi-slice mode | Interleaved |
| Bandwidth | 908 Hz/Px |

Sequence - Part 2

| | |
|---------------|------|
| RF pulse type | Fast |
| Gradient mode | Fast |
| RF spoiling | On |

Sequence - Assistant

| | |
|------|-----|
| Mode | Off |
|------|-----|

\\SiemensApps\Handover\AppsTraining\day0\b1map_tra_p2

TA: 9.0 s PM: REF Voxel size: 4.0×4.0×4.0 mmPAT: 2 Rel. SNR: 1.00 : tfl

Properties

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

Routine

| | |
|--------------------|-------------------|
| Slice group | 1 |
| Slices | 20 |
| Dist. factor | 100 % |
| Position | L5.4 P0.0 F5.4 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | --- |
| Phase oversampling | 0 % |
| FoV read | 256 mm |
| FoV phase | 100.0 % |
| Slice thickness | 4.0 mm |
| TR | 4000.0 ms |
| TE | 1.73 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | None |
| Coil elements | AC |

Contrast - Common

| | |
|-------------------|-----------|
| TR | 4000.0 ms |
| TE | 1.73 ms |
| Magn. preparation | None |
| Flip angle | 5.0 deg |
| Fat suppr. | None |
| Water suppr. | None |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution - Common

| | |
|-----------------------|---------|
| FoV read | 256 mm |
| FoV phase | 100.0 % |
| Slice thickness | 4.0 mm |
| Base resolution | 64 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |

Resolution - iPAT

| | |
|------------------|--------|
| PAT mode | GRAPPA |
| Accel. factor PE | 2 |
| Ref. lines PE | 16 |

Resolution - iPAT

| | |
|---------------------|------------|
| Reference scan mode | Integrated |
|---------------------|------------|

Resolution - Filter Image

| | |
|-------------------|-----|
| Image Filter | Off |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| | |
|-------------------|-----|
| Raw filter | Off |
| Elliptical filter | Off |

Geometry - Common

| | |
|------------------|-------------------|
| Slice group | 1 |
| Slices | 20 |
| Dist. factor | 100 % |
| Position | L5.4 P0.0 F5.4 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| FoV read | 256 mm |
| FoV phase | 100.0 % |
| Slice thickness | 4.0 mm |
| TR | 4000.0 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|-------------------|
| Slice group | 1 |
| Position | L5.4 P0.0 F5.4 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L5.4 P0.0 F5.4 |
| L | 5.4 mm |
| P | 0.0 mm |
| F | 5.4 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Transversal |

Geometry - Navigator**Geometry - Tim Planning Suite**

| | |
|-------------------|------|
| Set-n-Go Protocol | Off |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System - Miscellaneous

| | |
|---------------------|----------------|
| Positioning mode | REF |
| Table position | H |
| Table position | 0 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |

System - Miscellaneous

| | |
|------------------|---------|
| AutoAlign | --- |
| Coil Select Mode | Default |

System - Adjustments

| | |
|--------------------------|----------|
| B0 Shim mode | Tune up |
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

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 - pTx Volumes

| | |
|--------------|------------|
| B1 Shim mode | TrueForm |
| Excitation | Slice-sel. |

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 297.179496 MHz |
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Physio - Signal1

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 4000.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|-------------------|---------|
| Magn. preparation | None |
| Fat suppr. | None |
| Dark blood | Off |
| FoV read | 256 mm |
| FoV phase | 100.0 % |
| Phase resolution | 100 % |

Physio - PACE

| | |
|----------------|-----|
| Resp. control | Off |
| Concatenations | 1 |

Sequence - Part 1

| | |
|------------------|-------------|
| Introduction | Off |
| Dimension | 2D |
| Reordering | Centric |
| Asymmetric echo | Allowed |
| Flow comp. | No |
| Multi-slice mode | Interleaved |
| Echo spacing | 3.8 ms |
| Bandwidth | 440 Hz/Px |

Sequence - Part 2

| | |
|---------------|------------|
| RF pulse type | Normal |
| Gradient mode | Whisper |
| Excitation | Slice-sel. |

Sequence - Part 2

| | |
|-------------------------|-----|
| RF spoiling | On |
| Incr. Gradient spoiling | Off |
| Turbo factor | 64 |

Sequence - pTX Pulses**Sequence - Special**

| | |
|----------------------|-------|
| Tx scale diag mag | 0.0 |
| Tx scale diag phs | 0 deg |
| Tx scale offdiag mag | 1.0 |
| Tx scale offdiag phs | 0 deg |
| Rel. B1 mapping | Off |
| Ref. scan | On |
| Use B1 map recon | On |
| Dummy RF pulses | 1000 |

Sequence - Assistant

| | |
|------|-----|
| Mode | Off |
|------|-----|

\\SiemensApps\Handover\AppsTraining\day0\tfl_rfmap_B1shim

TA: 9.0 s PM: REF Voxel size: 2.0×2.0×5.0 mmPAT: Off Rel. SNR: 1.00 : tfl

Properties

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

Routine

| | |
|--------------------|-------------|
| Slice group | 1 |
| Slices | 1 |
| Dist. factor | 50 % |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | --- |
| Phase oversampling | 0 % |
| FoV read | 250 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 4000.0 ms |
| TE | 1.55 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | None |
| Coil elements | AC |

Contrast - Common

| | |
|-------------------|-----------|
| TR | 4000.0 ms |
| TE | 1.55 ms |
| Magn. preparation | None |
| Flip angle | 5.0 deg |
| Fat suppr. | None |
| Water suppr. | None |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution - Common

| | |
|-----------------------|---------|
| FoV read | 250 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| Base resolution | 64 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | On |

Resolution - iPAT

| | |
|----------|------|
| PAT mode | None |
|----------|------|

Resolution - Filter Image

| | |
|-------------------|-----|
| Image Filter | Off |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| | |
|-------------------|-----|
| Raw filter | Off |
| Elliptical filter | Off |

Geometry - Common

| | |
|------------------|-------------|
| Slice group | 1 |
| Slices | 1 |
| Dist. factor | 50 % |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| FoV read | 250 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 4000.0 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|-------------|
| Slice group | 1 |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | --- |
| Initial Position | Isocenter |
| L | 0.0 mm |
| P | 0.0 mm |
| H | 0.0 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Transversal |

Geometry - Navigator**Geometry - Tim Planning Suite**

| | |
|-------------------|------|
| Set-n-Go Protocol | Off |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System - Miscellaneous

| | |
|---------------------|----------------|
| Positioning mode | REF |
| Table position | H |
| Table position | 0 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | --- |
| Coil Select Mode | Default |

System - Adjustments

| | |
|--------------------------|------------------|
| B0 Shim mode | Brain |
| B1 Shim mode | Patient-specific |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| | |
|-------------|-------------|
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 250 mm |
| R >> L | 250 mm |
| F >> H | 5 mm |
| Reset | Off |

System - pTx Volumes

| | |
|--------------|------------------|
| B1 Shim mode | Patient-specific |
| Excitation | Slice-sel. |

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 297.179496 MHz |
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Physio - Signal1

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 4000.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|-------------------|---------|
| Magn. preparation | None |
| Fat suppr. | None |
| Dark blood | Off |
| FoV read | 250 mm |
| FoV phase | 100.0 % |
| Phase resolution | 100 % |

Physio - PACE

| | |
|----------------|-----|
| Resp. control | Off |
| Concatenations | 1 |

Sequence - Part 1

| | |
|------------------|-------------|
| Introduction | Off |
| Dimension | 2D |
| Reordering | Centric |
| Asymmetric echo | Allowed |
| Flow comp. | No |
| Multi-slice mode | Interleaved |
| Echo spacing | 3.8 ms |
| Bandwidth | 450 Hz/Px |

Sequence - Part 2

| | |
|-------------------------|------------|
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slice-sel. |
| RF spoiling | On |
| Incr. Gradient spoiling | Off |
| Turbo factor | 64 |

Sequence - pTX Pulses**Sequence - Special**

| | |
|----------------------|-------|
| Tx scale diag mag | 0.3 |
| Tx scale diag phs | 0 deg |
| Tx scale offdiag mag | 1.0 |
| Tx scale offdiag phs | 0 deg |
| Rel. B1 mapping | Off |
| Ref. scan | On |
| Use B1 map recon | On |
| Dummy RF pulses | 1000 |

Sequence - Assistant

| | |
|------|-----|
| Mode | Off |
|------|-----|

\\SiemensApps\Handover\AppsTraining\day0\resolve

TA: 2:29 PM: FIX Voxel size: 1.0×1.0×4.0 mmPAT: Off Rel. SNR: 1.00 : resolve

Properties

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

Routine

| | |
|--------------------|----------------------|
| Slice group | 1 |
| Slices | 26 |
| Dist. factor | 0 % |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | --- |
| Phase oversampling | 0 % |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 4.0 mm |
| TR | 5670 ms |
| TE 1 | 97 ms |
| TE 2 | 179 ms |
| Concatenations | 1 |
| Filter | Distortion Corr.(2D) |
| Coil elements | AC |

Contrast - Common

| | |
|-------------------|----------|
| TR | 5670 ms |
| TE 1 | 97 ms |
| TE 2 | 179 ms |
| MTC | Off |
| Magn. preparation | None |
| Flip angle | 180 deg |
| Fat suppr. | Fat sat. |
| Fat sat. mode | Strong |

Contrast - Dynamic

| | |
|----------------|------------|
| Averaging mode | Short term |
| Reconstruction | Magnitude |
| Measurements | 1 |

Resolution - Common

| | |
|-------------------------|---------|
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 4.0 mm |
| Base resolution | 192 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Readout partial Fourier | Off |
| Readout segments | 5 |
| Interpolation | Off |

Resolution - iPAT

| | |
|-------------|------|
| Accel. mode | None |
|-------------|------|

Resolution - Filter Image

| | |
|-------------------|-----|
| Distortion Corr. | On |
| Mode | 2D |
| Unfiltered images | Off |
| Prescan Normalize | Off |

Resolution - Filter Rawdata

| | |
|------------|-----|
| Raw filter | Off |
|------------|-----|

Geometry - Common

| | |
|------------------|-------------|
| Slice group | 1 |
| Slices | 26 |
| Dist. factor | 0 % |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 4.0 mm |
| TR | 5670 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|-------------|
| Slice group | 1 |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | --- |
| Initial Position | Isocenter |
| L | 0.0 mm |
| P | 0.0 mm |
| H | 0.0 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Transversal |

Geometry - Saturation

| | |
|---------------|----------|
| Fat suppr. | Fat sat. |
| Fat sat. mode | Strong |
| Special sat. | None |

Geometry - Tim Planning Suite

| | |
|-------------------|------|
| Set-n-Go Protocol | Off |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System - Miscellaneous

| | |
|---------------------|----------------|
| Positioning mode | FIX |
| Table position | H |
| Table position | 0 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | --- |
| Coil Select Mode | Default |

System - Adjustments

| | |
|--------------------------|----------|
| B0 Shim mode | Brain |
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| | |
|---------------|-------------|
| ! Position | Isocenter |
| ! Orientation | Transversal |
| ! Rotation | 0.00 deg |
| ! A >> P | 240 mm |
| ! R >> L | 240 mm |
| ! F >> H | 130 mm |
| Reset | Off |

System - pTx Volumes

| | |
|--------------|----------|
| B1 Shim mode | TrueForm |
|--------------|----------|

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 297.179496 MHz |
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Physio - Signal1

| | |
|-----------------|---------|
| 1st Signal/Mode | None |
| TR | 5670 ms |
| Concatenations | 1 |

Diff - Neuro

| | |
|-----------------------|------------------------|
| Diffusion mode | 3-Scan Trace |
| Diff. directions | 3 |
| Diffusion Scheme | Monopolar |
| Diff. weightings | 2 |
| b-value 1 | 0 s/mm ² |
| b-value 2 | 1000 s/mm ² |
| b-value 1 | 1 |
| b-value 2 | 1 |
| Diff. weighted images | Off |
| Trace weighted images | On |
| ADC maps | On |
| FA maps | Off |
| Mosaic | Off |
| Tensor | Off |
| Noise level | 40 |

Diff - Body

| | |
|-----------------------|------------------------|
| Diffusion mode | 3-Scan Trace |
| Diff. directions | 3 |
| Diffusion Scheme | Monopolar |
| Diff. weightings | 2 |
| b-value 1 | 0 s/mm ² |
| b-value 2 | 1000 s/mm ² |
| b-value 1 | 1 |
| b-value 2 | 1 |
| Diff. weighted images | Off |
| Trace weighted images | On |
| ADC maps | On |
| Exponential ADC Maps | Off |
| FA maps | Off |
| Invert Gray Scale | Off |

Diff - Body

| | |
|------------------|---------------------|
| Calculated Image | Off |
| b-Value >= | 0 s/mm ² |
| Noise level | 40 |

Diff - Composing

| | |
|-------------------|-----|
| Inline Composing | Off |
| Distortion Corr. | On |
| Mode | 2D |
| Unfiltered images | Off |

Sequence - Part 1

| | |
|------------------|-------------|
| Introduction | On |
| Dimension | 2D |
| Contrasts | 2 |
| Optimization | Min. TE |
| Multi-slice mode | Interleaved |
| Echo spacing | 0.38 ms |
| Bandwidth | 766 Hz/Px |

Sequence - Part 2

| | |
|--------------------|--------|
| EPI factor | 192 |
| RF pulse type | Normal |
| Gradient mode | Fast |
| Reacquisition mode | On |

Sequence - Assistant

| | |
|------|-----|
| Mode | Off |
|------|-----|

\\SiemensApps\Handover\AppsTraining\day0\ep2d_bold

TA: 0:38 PM: REF Voxel size: 2.0×2.0×5.0 mmPAT: 4 Rel. SNR: 1.00 : epfid

Properties

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

Routine

| | |
|--------------------|-------------|
| Slice group | 1 |
| Slices | 26 |
| Dist. factor | 0 % |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | --- |
| Phase oversampling | 0 % |
| FoV read | 240 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 1500 ms |
| TE | 28.0 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | None |
| Coil elements | AC |

Contrast - Common

| | |
|--------------------|----------|
| TR | 1500 ms |
| TE | 28.0 ms |
| MTC | Off |
| Flip angle exc | 90 deg |
| Flip angle fat sat | 110 deg |
| Fat suppr. | Fat sat. |

Contrast - Dynamic

| | |
|-----------------|-----------|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 20 |
| Delay in TR | 0 ms |
| Multiple series | Off |

Resolution - Common

| | |
|-----------------------|---------|
| FoV read | 240 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| Base resolution | 120 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |

Resolution - iPAT

| | |
|------------------|--------------|
| Accel. mode | Slice accel. |
| Accel. factor PE | 2 |

Resolution - iPAT

| | |
|---------------------|--------------|
| Ref. lines PE | 24 |
| Accel. factor slice | 2 |
| Reference scan mode | EPI/separate |

Resolution - Filter Image

| | |
|-------------------|-----|
| Distortion Corr. | Off |
| Prescan Normalize | Off |

Resolution - Filter Rawdata

| | |
|-------------------|-----|
| Raw filter | Off |
| Elliptical filter | Off |
| Hamming | Off |

Geometry - Common

| | |
|------------------|-------------|
| Slice group | 1 |
| Slices | 26 |
| Dist. factor | 0 % |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| FoV read | 240 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 1500 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|-------------|
| Slice group | 1 |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | --- |
| Initial Position | Isocenter |
| L | 0.0 mm |
| P | 0.0 mm |
| H | 0.0 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Transversal |

Geometry - Saturation

| | |
|--------------|----------|
| Fat suppr. | Fat sat. |
| Special sat. | None |

Geometry - Tim Planning Suite

| | |
|-------------------|------|
| Set-n-Go Protocol | Off |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System - Miscellaneous

| | |
|-------------------|------------------|
| Positioning mode | REF |
| Table position | H |
| Table position | 0 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Adaptive Combine |

System - Miscellaneous

| | |
|---------------------|---------|
| Matrix Optimization | Off |
| AutoAlign | --- |
| Coil Select Mode | Default |

System - Adjustments

| | |
|--------------------------|----------|
| B0 Shim mode | Brain |
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| | |
|-------------|-------------|
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 240 mm |
| R >> L | 240 mm |
| F >> H | 130 mm |
| Reset | Off |

System - pTx Volumes

| | |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation | Standard |

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 297.179496 MHz |
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Physio - Signal1

| | |
|-----------------|---------|
| 1st Signal/Mode | None |
| TR | 1500 ms |
| Concatenations | 1 |

BOLD

| | |
|-------------------------|----------|
| GLM Statistics | Off |
| Dynamic t-maps | Off |
| Ignore meas. at start | 0 |
| Ignore after transition | 0 |
| Model transition states | On |
| Temp. highpass filter | On |
| Threshold | 4.00 |
| Paradigm size | 20 |
| Meas[1] | Baseline |
| Meas[2] | Baseline |
| Meas[3] | Baseline |
| Meas[4] | Baseline |
| Meas[5] | Baseline |
| Meas[6] | Baseline |
| Meas[7] | Baseline |
| Meas[8] | Baseline |
| Meas[9] | Baseline |
| Meas[10] | Baseline |
| Meas[11] | Active |
| Meas[12] | Active |
| Meas[13] | Active |
| Meas[14] | Active |
| Meas[15] | Active |
| Meas[16] | Active |
| Meas[17] | Active |

BOLD

| | |
|-------------------|--------|
| Meas[18] | Active |
| Meas[19] | Active |
| Meas[20] | Active |
| Motion correction | Off |
| Spatial filter | Off |
| Measurements | 20 |
| Delay in TR | 0 ms |
| Multiple series | Off |

Sequence - Part 1

| | |
|-------------------|-------------|
| Introduction | Off |
| Multi-slice mode | Interleaved |
| Free echo spacing | Off |
| Echo spacing | 0.71 ms |
| Bandwidth | 1602 Hz/Px |

Sequence - Part 2

| | |
|---------------|----------|
| EPI factor | 120 |
| RF pulse type | Fast |
| Gradient mode | Fast |
| Excitation | Standard |

Sequence - pTX Pulses

\\SiemensApps\Handover\AppsTraining\day0\svs_se

TA: 0:54 PM: REF Vol: 20 ×20 ×20 mmRel. SNR: 1.00 : svs_se

Properties

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

Routine

| | |
|---------------|-------------|
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0 deg |
| Vol R >> L | 20 mm |
| Vol R >> L | 20 mm |
| Vol F >> H | 20 mm |
| TR | 1500 ms |
| TE | 30.0 ms |
| Averages | 32 |
| Filter | None |
| Coil elements | AC |

Contrast

| | |
|-----------------|------------|
| TR | 1500 ms |
| TE | 30.0 ms |
| Averages | 32 |
| Flip angle | 90 deg |
| Water suppr. | Water sat. |
| Water suppr. BW | 60 Hz |
| Spectral suppr. | None |
| Measurements | 1 |

Resolution - Common

| | |
|-------------------|------|
| Prescan Normalize | Off |
| Vector size | 1024 |

Geometry - Common

| | |
|-------------|-------------|
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0 deg |
| Vol R >> L | 20 mm |
| Vol A >> P | 20 mm |
| Vol F >> H | 20 mm |

Geometry - AutoAlign

| | |
|---------------------|-------------|
| AutoAlign | --- |
| Initial Position | Isocenter |
| L | 0 mm |
| P | 0 mm |
| H | 0 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Transversal |

Geometry - Navigator**System - Miscellaneous**

| | |
|----------------------|-----------|
| Positioning mode | REF |
| Table position | H |
| Table position | 0 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Save uncombined | Off |
| Save single averages | Off |
| AutoAlign | --- |
| Coil Select Mode | Default |

System - Adjustments

| | |
|--------------------------|----------|
| B0 Shim mode | Brain |
| B1 Shim mode | TrueForm |
| Adj. water suppr. | On |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| | |
|-------------|-------------|
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 20 mm |
| R >> L | 20 mm |
| F >> H | 20 mm |
| Reset | Off |

System - pTx Volumes

| | |
|--------------|----------|
| B1 Shim mode | TrueForm |
|--------------|----------|

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 297.179496 MHz |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Physio - Signal1

| | |
|-----------------|---------|
| 1st Signal/Mode | None |
| TR | 1500 ms |

Physio - PACE

| | |
|---------------|-----|
| Resp. control | Off |
|---------------|-----|

Sequence - Common

| | |
|--------------------------|---------|
| Preparation scans | 4 |
| Delta frequency | 0.0 ppm |
| Ref. scan mode | Off |
| Phase cycling | Auto |
| Bandwidth | 3000 Hz |
| Acquisition duration | 341 ms |
| Remove oversampling | On |
| Freq. corr. accumulation | Off |