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dzne_rls

v1.0_rhineland_3TPisma

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\\USER\DTse\ldzne_rls\sv1.0_rhineland_3TPrisma\Scout

TA: 0:14 PM: REF Voxel size: 1.6×1.6×1.6 mmPAT: 3 Rel. SNR: 1.00 : fl

Properties

| | |
|---|--------------------|
| Prio recon | On |
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| 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

| | |
|--------------------|--------------------|
| Slab group | 1 |
| Slabs | 1 |
| Dist. factor | 20 % |
| Position | L0.0 A20.0 H0.0 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Phase oversampling | 0 % |
| Slice oversampling | 0.0 % |
| Slices per slab | 128 |
| FoV read | 260 mm |
| FoV phase | 100.0 % |
| Slice thickness | 1.6 mm |
| TR | 3.15 ms |
| TE | 1.37 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Prescan Normalize |
| Coil elements | HEA;HEP |

Contrast - Common

| | |
|------------|---------|
| TR | 3.15 ms |
| TE | 1.37 ms |
| Flip angle | 8 deg |

Contrast - Dynamic

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

Resolution - Common

| | |
|-----------------------|-----------|
| FoV read | 260 mm |
| FoV phase | 100.0 % |
| Slice thickness | 1.6 mm |
| Base resolution | 160 |
| Phase resolution | 100 % |
| Slice resolution | 69 % |
| Phase partial Fourier | 6/8 |
| Slice partial Fourier | 6/8 |
| Trajectory | Cartesian |

Resolution - iPAT

| | |
|------------------|--------|
| PAT mode | GRAPPA |
| Accel. factor PE | 3 |
| Ref. lines PE | 24 |
| Accel. factor 3D | 1 |

Resolution - iPAT

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

Resolution - Filter Image

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

Resolution - Filter Rawdata

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

Geometry - Common

| | |
|--------------------|--------------------|
| Slab group | 1 |
| Slabs | 1 |
| Dist. factor | 20 % |
| Position | L0.0 A20.0 H0.0 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice oversampling | 0.0 % |
| Slices per slab | 128 |
| FoV read | 260 mm |
| FoV phase | 100.0 % |
| Slice thickness | 1.6 mm |
| TR | 3.15 ms |
| Multi-slice mode | Sequential |
| Series | Ascending |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|--------------------|
| Slab group | 1 |
| Position | L0.0 A20.0 H0.0 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Initial Position | Isocenter |
| L | 0.0 mm |
| P | 0.0 mm |
| H | 0.0 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Transversal |

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 |
| Save uncombined | Off |
| Matrix Optimization | Off |
| Coil Select Mode | Off - All |

System - Adjustments

| | |
|-----------------------|----------|
| B0 Shim mode | Tune up |
| B1 Shim mode | TrueForm |
| Adjust with body coil | Off |

System - Adjustments

| | |
|--------------------------|------|
| 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 | Non-sel. |

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 123.250417 MHz |
| Correction factor | 1 |
| Gain | Low |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Physio - PACE

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

Inline - Common

| | |
|----------------|-------|
| Flip angle | 8 deg |
| Measurements | 1 |
| Time to center | 6.2 s |

Inline - Inline

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

Inline - MIP

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

Inline - Composing

| | |
|------------------|-----|
| Distortion Corr. | Off |
|------------------|-----|

Inline - MapIt

| | |
|----------------------|---------|
| Save original images | On |
| MapIt | None |
| Flip angle | 8 deg |
| Measurements | 1 |
| Contrasts | 1 |
| TR | 3.15 ms |
| TE | 1.37 ms |

Sequence - Part 1

| | |
|--------------|----|
| Introduction | On |
| Dimension | 3D |

Sequence - Part 1

| | |
|------------------|------------|
| Asymmetric echo | Weak |
| Contrasts | 1 |
| Multi-slice mode | Sequential |
| Bandwidth | 540 Hz/Px |

Sequence - Part 2

| | |
|---------------|----------|
| RF pulse type | Fast |
| Gradient mode | Normal |
| Excitation | Non-sel. |
| RF spoiling | On |

Sequence - Assistant

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

\\USER\DTse\ldzne_rls\v1.0_rhineland_3TPrisma\ldzne-bn_B0

TA: 0:32 PM: REF Voxel size: 2.4×2.4×2.4 mmPAT: Off Rel. SNR: 1.00 : a9f1178

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

| | |
|--------------------|--------------------|
| Slab group | 1 |
| Slabs | 1 |
| Dist. factor | 20 % |
| Position | R4.0 P6.3 H19.0 mm |
| Orientation | T > C-6.1 > S0.4 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| Slice oversampling | 0.0 % |
| Slices per slab | 60 |
| FoV read | 216 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.40 mm |
| TR | 6.0 ms |
| TE 1 | 1.29 ms |
| TE 2 | 3.09 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | None |
| Coil elements | HC1-7 |

Contrast - Common

| | |
|-------------------|---------|
| TR | 6.0 ms |
| TE 1 | 1.29 ms |
| TE 2 | 3.09 ms |
| MTC | Off |
| Magn. preparation | None |
| Flip angle | 6 deg |
| Fat suppr. | None |
| Water suppr. | None |
| SWI | Off |

Contrast - Dynamic

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

Resolution - Common

| | |
|------------------|---------|
| FoV read | 216 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.40 mm |
| Base resolution | 90 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |

Resolution - Common

| | |
|-----------------------|-----|
| Phase partial Fourier | Off |
| Slice partial Fourier | Off |
| Interpolation | Off |

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

| | |
|--------------------|--------------------|
| Slab group | 1 |
| Slabs | 1 |
| Dist. factor | 20 % |
| Position | R4.0 P6.3 H19.0 mm |
| Orientation | T > C-6.1 > S0.4 |
| Phase enc. dir. | A >> P |
| Slice oversampling | 0.0 % |
| Slices per slab | 60 |
| FoV read | 216 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.40 mm |
| TR | 6.0 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|--------------------|
| Slab group | 1 |
| Position | R4.0 P6.3 H19.0 mm |
| Orientation | T > C-6.1 > S0.4 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P0.0 H4.0 |
| R | 0.0 mm |
| A | 0.0 mm |
| H | 4.0 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | T > C |
| T > C | -6.0 |
| > S | 0.0 |

Geometry - Saturation

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

System - Miscellaneous

| | |
|------------------|------|
| Positioning mode | REF |
| Table position | H |
| Table position | 0 mm |

System - Miscellaneous

| | |
|---------------------|----------------|
| 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 |
| Adjust with body coil | Off |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| | |
|-------------|--------------------|
| Position | R4.0 P6.3 H19.0 mm |
| Orientation | T > C-6.1 > S0.4 |
| Rotation | -6.43 deg |
| A >> P | 216 mm |
| R >> L | 216 mm |
| F >> H | 144 mm |
| Reset | Off |

System - pTx Volumes

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

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 123.250417 MHz |
| Correction factor | 1 |
| Gain | Low |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Physio - Signal1

| | |
|-----------------|--------|
| 1st Signal/Mode | None |
| TR | 6.0 ms |
| Concatenations | 1 |
| Segments | 1 |

Physio - Cardiac

| | |
|-------------------|---------|
| Magn. preparation | None |
| Fat suppr. | None |
| Dark blood | Off |
| FoV read | 216 mm |
| FoV phase | 100.0 % |
| Phase resolution | 100 % |

Physio - PACE

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

Inline - Common

| | |
|--------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Liver registration | Off |

Inline - Common

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

| | |
|------------------|-----|
| Distortion Corr. | Off |
|------------------|-----|

Inline - MapIt

| | |
|----------------------|---------|
| Save original images | On |
| MapIt | None |
| Flip angle | 6 deg |
| Measurements | 1 |
| Contrasts | 2 |
| TR | 6.0 ms |
| TE 1 | 1.29 ms |
| TE 2 | 3.09 ms |

Sequence - Part 1

| | |
|---------------------|-------------|
| Introduction | Off |
| Dimension | 3D |
| Elliptical scanning | Off |
| Phase stabilisation | Off |
| Asymmetric echo | Allowed |
| Contrasts | 2 |
| Flow comp. 1 | No |
| Readout mode | Monopolar |
| Multi-slice mode | Interleaved |
| Bandwidth 1 | 990 Hz/Px |
| Bandwidth 2 | 990 Hz/Px |

Sequence - Part 2

| | |
|--------------------------|-----------|
| Segments | 1 |
| Acoustic noise reduction | None |
| RF pulse type | Fast |
| Gradient mode | Normal |
| Excitation | Slab-sel. |
| RF spoiling | On |

Sequence - Special

| | |
|--------------|-----|
| Separate TRs | Off |
|--------------|-----|

Sequence - Assistant

| | |
|---------------|-----|
| Mode | Off |
| Allowed delay | 0 s |

\\USER\DTse\ldzne_rls\v1.0_rhineland_3TPrisma\ldzne-bn_logstart

TA: 1.3 s PM: REF Voxel size: 2.3×2.3×5.0 mmRel. SNR: 1.00 : fl

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 | On |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| | |
|-----------------|-------------|
| Slice group | 1 |
| Slices | 1 |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | --- |
| FoV read | 300 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 10.00 ms |
| TE | 5.00 ms |
| Filter | None |
| Coil elements | HC1-7;NC1,2 |

Contrast - Common

| | |
|------------|----------|
| TR | 10.00 ms |
| TE | 5.00 ms |
| Flip angle | 15 deg |

Resolution - Common

| | |
|------------------|---------|
| FoV read | 300 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| Base resolution | 128 |
| Phase resolution | 100 % |

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 |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| FoV read | 300 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |

Geometry - Common

| | |
|----|----------|
| TR | 10.00 ms |
|----|----------|

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 |

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

System - Adjustments

| | |
|--------------------------|----------|
| B0 Shim mode | Tune up |
| B1 Shim mode | TrueForm |
| Adjust with body coil | Off |
| 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 |
|--------------|----------|

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 123.250417 MHz |
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Sequence - Part 1

| | |
|-----------|-----------|
| Bandwidth | 800 Hz/Px |
|-----------|-----------|

Sequence - Special

| | |
|-----------------|-----|
| Log external | Off |
| Log external 2 | Off |
| Log respiration | On |
| Log pulse | On |
| Log ekg | Off |

Sequence - Assistant

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

\\USER\DTse\dzne_rls\lv1.0_rhineland_3TPrisma\ldzne-bn_RestingState_rls

TA: 10:19 PM: REF Voxel size: 2.4×2.4×2.4 mmPAT: 6 Rel. SNR: 1.00 : ep 087c5bf

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

| | |
|--------------------|-------------------|
| Slab group | 1 |
| Slabs | 1 |
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | T > C-6.0 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Slice oversampling | 0.0 % |
| Slices per slab | 60 |
| FoV read | 216 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.40 mm |
| TR | 570 ms |
| TE 1 | 30.00 ms |
| Averages | 1 |
| Multi-echo Shots | 1 |
| Filter | Prescan Normalize |
| Coil elements | HC1-7 |

Contrast - Common

| | |
|--------------------|-------------|
| TR | 570 ms |
| TE 1 | 30.00 ms |
| Multi-echo spacing | 51 ms |
| MTC | Off |
| Magn. preparation | Non-sel. IR |
| TI | 289 ms |
| Flip angle | 16 deg |
| Fat suppr. | SPAIR |

Contrast - Dynamic

| | |
|-------------------|-----------|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1070 |
| Pause after meas. | 0.0 s |

Resolution - Common

| | |
|-----------------------|---------|
| FoV read | 216 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.40 mm |
| Base resolution | 90 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | Off |
| Slice partial Fourier | Off |
| Interpolation | Off |

Resolution - iPAT

| | |
|---------------------|---------------|
| PAT mode | CAIPIRINHA |
| Accel. factor PE | 1 |
| Ref. lines PE | 24 |
| Accel. factor 3D | 6 |
| Ref. lines 3D | 36 |
| Reordering Shift 3D | 2 |
| Reference scan mode | EPI/separate |
| CAIPI Trajectory | Blipped-CAIPI |

Resolution - Filter Image

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

Resolution - Filter Rawdata

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

Geometry - Common

| | |
|--------------------|-------------------|
| Slab group | 1 |
| Slabs | 1 |
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | T > C-6.0 |
| Phase enc. dir. | A >> P |
| Slice oversampling | 0.0 % |
| Slices per slab | 60 |
| FoV read | 216 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.40 mm |
| TR | 570 ms |
| Multi-echo Shots | 1 |

Geometry - AutoAlign

| | |
|---------------------|-------------------|
| Slab group | 1 |
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | T > C-6.0 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P0.0 H4.0 |
| R | 0.0 mm |
| A | 0.0 mm |
| H | 4.0 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | T > C |
| T > C | -6.0 |
| > S | 0.0 |

Geometry - Saturation

| | |
|-----------------|----------|
| Saturation mode | Standard |
| Fat suppr. | SPAIR |

System - Miscellaneous

| | |
|------------------|-----------|
| Positioning mode | REF |
| Table position | H |
| Table position | 0 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |

System - Miscellaneous

| | |
|---------------------|----------------|
| 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 |
| Adjust with body coil | Off |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| | |
|-------------|-------------------|
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | T > C-6.0 |
| Rotation | 0.00 deg |
| A >> P | 216 mm |
| R >> L | 216 mm |
| F >> H | 144 mm |
| Reset | Off |

System - pTx Volumes

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

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 123.250417 MHz |
| Correction factor | 1 |
| Gain | Low |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Sequence - Part 1

| | |
|---------------------|------------|
| Introduction | On |
| Dimension | 3D |
| Elliptical scanning | On |
| Reordering | Linear |
| Contrasts | 1 |
| Echo spacing | 0.56 ms |
| Bandwidth | 2314 Hz/Px |

Sequence - Part 2

| | |
|---------------|-------------|
| EPI factor | 90 |
| Segmentation | 1 |
| RF pulse type | Normal |
| Gradient mode | Performance |
| Excitation | Slab-sel. |
| RF spoiling | On |

Sequence - Special

| | |
|--------------------|---------|
| PAT ref. FA | 12 deg |
| RF duration | 1020 us |
| RF BWT product | 35 |
| Ernst T1 | 1500 ms |
| PATRef prep. shots | 150 |
| Volume dummy shots | 0 |
| Dummy Measurements | 3 |

Sequence - Special

| | |
|-----------------------|-------------|
| Integrated PC | On |
| Invert PE | Off |
| Dual-polarity | Off |
| Water Exc. | Binomial-11 |
| Phase Correction | per Shot |
| EPI rise time factor | 1.00 |
| Mosaic DICOMs | On |
| Modify Ice Config | On |
| G-factor map | Off |
| Disable freq. adj. | Off |
| GRAPPA Regularization | 50000 /10^6 |
| Slab Scale | -7 % |
| Silent gap | 0 #shots |

Sequence - Assistant

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

\\USER\DTse\ldzne_rls\v1.0_rhineland_3TPrisma\ldzne-bn_T1w_rls

TA: 6:39 PM: REF Voxel size: 0.8×0.8×0.8 mmPAT: 2 Rel. SNR: 1.00 : 38da3c8

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 | On |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| | |
|--------------------|--|
| Slab group | 1 |
| Slabs | 1 |
| Dist. factor | 50 % |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Basis |
| Phase oversampling | 0 % |
| Slice oversampling | 0.0 % |
| Slices per slab | 224 |
| FoV read | 256 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.80 mm |
| TR | 2560.0 ms |
| TE 1 | 1.81 ms |
| TE 2 | 3.60 ms |
| TE 3 | 5.39 ms |
| TE 4 | 7.18 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Distortion Corr.(3D), Prescan Normalize |
| Coil elements | HC1-7;NC1 |

Contrast - Common

| | |
|-------------------|-------------|
| TR | 2560.0 ms |
| TE 1 | 1.81 ms |
| TE 2 | 3.60 ms |
| TE 3 | 5.39 ms |
| TE 4 | 7.18 ms |
| Magn. preparation | Non-sel. IR |
| TI | 1100 ms |
| Flip angle | 7 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 % |

Resolution - Common

| | |
|-----------------------|---------|
| Slice thickness | 0.80 mm |
| Base resolution | 320 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | Off |
| Slice partial Fourier | Off |
| Interpolation | Off |

Resolution - iPAT

| | |
|---------------------|------------|
| PAT mode | CAIPIRINHA |
| Accel. factor PE | 1 |
| Accel. factor 3D | 2 |
| Ref. lines 3D | 36 |
| Reordering Shift 3D | 1 |
| Reference scan mode | Integrated |
| CAIPIRINHA mode | Free |

Resolution - Filter Image

| | |
|-------------------|-----|
| Image Filter | Off |
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | Off |
| Prescan Normalize | On |
| Unfiltered images | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

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

Geometry - Common

| | |
|--------------------|------------|
| Slab group | 1 |
| Slabs | 1 |
| Dist. factor | 50 % |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice oversampling | 0.0 % |
| Slices per slab | 224 |
| FoV read | 256 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.80 mm |
| TR | 2560.0 ms |
| Multi-slice mode | Sequential |
| Series | Ascending |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|--------------|
| Slab group | 1 |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Basis |
| Initial Position | Isocenter |
| L | 0.0 mm |
| P | 0.0 mm |
| H | 0.0 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |

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 |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | Head > Basis |
| Coil Select Mode | Default |

System - Adjustments

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

System - Adjust Volume

| | |
|-------------|-----------|
| Position | Isocenter |
| Orientation | Sagittal |
| Rotation | 0.00 deg |
| A >> P | 256 mm |
| F >> H | 256 mm |
| R >> L | 180 mm |
| Reset | Off |

System - pTx Volumes

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

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 123.250417 MHz |
| Correction factor | 1 |
| Gain | Low |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Physio - Signal1

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 2560.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|-------------------|-------------|
| Magn. preparation | Non-sel. IR |
| T1 | 1100 ms |
| Fat suppr. | None |
| Dark blood | Off |
| FoV read | 256 mm |
| FoV phase | 100.0 % |
| Phase resolution | 100 % |

Physio - PACE

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

Inline - Common

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

Inline - MIP

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

Inline - Composing

| | |
|-------------------|-----|
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | Off |

Inline - MapIt

| | |
|----------------------|-----------|
| Save original images | On |
| MapIt | None |
| Flip angle | 7 deg |
| Measurements | 1 |
| Contrasts | 4 |
| TR | 2560.0 ms |
| TE 1 | 1.81 ms |
| TE 2 | 3.60 ms |
| TE 3 | 5.39 ms |
| TE 4 | 7.18 ms |

Sequence - Part 1

| | |
|---------------------|------------|
| Introduction | Off |
| Dimension | 3D |
| Elliptical scanning | On |
| Reordering | Free 0 |
| Asymmetric echo | Off |
| Contrasts | 4 |
| Flow comp. | No |
| Readout mode | Bipolar |
| Multi-slice mode | Sequential |
| Echo spacing | 10 ms |
| Bandwidth 1 | 740 Hz/Px |
| Bandwidth 2 | 740 Hz/Px |
| Bandwidth 3 | 740 Hz/Px |
| Bandwidth 4 | 740 Hz/Px |

Sequence - Part 2

| | |
|-------------------------|----------|
| RF pulse type | Fast |
| Gradient mode | Fast |
| Excitation | Non-sel. |
| RF spoiling | On |
| Incr. Gradient spoiling | Off |
| Turbo factor | 186 |

Sequence - Assistant

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

\\USER\DTse\ldzne_rls\v1.0_rhineland_3TPrisma\ldzne-bn_T2w_rls

TA: 4:46 PM: REF Voxel size: 0.8×0.8×0.8 mmPAT: 2 Rel. SNR: 1.00 : e3e1dcf

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 | On |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| | |
|--------------------|---|
| Slab group | 1 |
| Slabs | 1 |
| Position | R1.0 A5.8 F9.7 mm |
| Orientation | S > C-1.4 > T1.0 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Basis |
| Phase oversampling | 0 % |
| Slice oversampling | 0.0 % |
| Slices per slab | 224 |
| FoV read | 256 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.80 mm |
| TR | 2800 ms |
| TE | 402 ms |
| Averages | 1.0 |
| Concatenations | 1 |
| Filter | Raw filter, Distortion Corr.(3D), Prescan Normalize |
| Coil elements | HC1-7;NC1 |

Contrast - Common

| | |
|-------------------|---------|
| TR | 2800 ms |
| TE | 402 ms |
| MTC | Off |
| Magn. preparation | None |
| Fat suppr. | None |
| Blood suppr. | Off |
| Restore magn. | On |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Averages | 1.0 |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution - Common

| | |
|-----------------------|---------|
| FoV read | 256 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.80 mm |
| Base resolution | 320 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | Allowed |
| Slice partial Fourier | Off |
| Interpolation | Off |

Resolution - iPAT

| | |
|---------------------|--------------|
| PAT mode | CAIPIRINHA |
| Accel. factor PE | 1 |
| Ref. lines PE | 24 |
| Accel. factor 3D | 2 |
| Ref. lines 3D | 36 |
| Reordering Shift 3D | 1 |
| Reference scan mode | GRE/separate |

Resolution - Filter Image

| | |
|-------------------|-----|
| Image Filter | Off |
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | Off |
| Prescan Normalize | On |
| Unfiltered images | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

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

Geometry - Common

| | |
|--------------------|-------------------|
| Slab group | 1 |
| Slabs | 1 |
| Position | R1.0 A5.8 F9.7 mm |
| Orientation | S > C-1.4 > T1.0 |
| Phase enc. dir. | A >> P |
| Slice oversampling | 0.0 % |
| Slices per slab | 224 |
| FoV read | 256 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.80 mm |
| TR | 2800 ms |
| Series | Ascending |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|-------------------|
| Slab group | 1 |
| Position | R1.0 A5.8 F9.7 mm |
| Orientation | S > C-1.4 > T1.0 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Basis |
| 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

| | |
|---------------|------|
| Fat suppr. | None |
| Restore magn. | On |
| Special sat. | None |

Geometry - Navigator**System - Miscellaneous**

| | |
|------------------|-----|
| Positioning mode | REF |
| Table position | H |

System - Miscellaneous

| | |
|---------------------|------------------|
| Table position | 0 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Adaptive Combine |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | Head > Basis |
| Coil Select Mode | Default |

System - Adjustments

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

System - Adjust Volume

| | |
|-------------|-------------------|
| Position | R1.0 A5.8 F9.7 mm |
| Orientation | S > C-1.4 > T1.0 |
| Rotation | -7.43 deg |
| A >> P | 256 mm |
| F >> H | 256 mm |
| R >> L | 180 mm |
| Reset | Off |

System - pTx Volumes

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

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 123.250417 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 |
| Trigger delay | 0 ms |
| TR | 2800 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 |

Inline - Common

| | |
|--------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |

Inline - Common

| | |
|----------------------|----|
| Save original images | On |
|----------------------|----|

Inline - MIP

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

Inline - Composing

| | |
|-------------------|-----|
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | Off |

Sequence - Part 1

| | |
|---------------------|-----------|
| Introduction | Off |
| Dimension | 3D |
| Elliptical scanning | On |
| Reordering | Linear |
| Flow comp. | No |
| Echo spacing | 4.52 ms |
| Adiabatic-mode | Off |
| Bandwidth | 744 Hz/Px |

Sequence - Part 2

| | |
|---------------------|----------|
| Echo train duration | 1044 ms |
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Non-sel. |
| Flip angle mode | T2 var |
| Turbo factor | 282 |

Sequence - Special

| | |
|-----------------------|--------|
| GRAPPA Regularization | 0.0001 |
|-----------------------|--------|

Sequence - Assistant

| | |
|---------------|-----|
| Allowed delay | 0 s |
|---------------|-----|

\\USER\DTse\dzne_rls\v1.0_rhineland_3TPrisma\dzne-bn_FLAIR_rls

TA: 4:40 PM: REF Voxel size: 1.0×1.0×1.0 mmPAT: 2 Rel. SNR: 1.00 : e3e1dcf

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 | On |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| | |
|--------------------|---|
| Slab group | 1 |
| Slabs | 1 |
| Position | R1.0 A5.8 F9.7 mm |
| Orientation | S > C-1.4 > T1.0 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Basis |
| Phase oversampling | 0 % |
| Slice oversampling | 0.0 % |
| Slices per slab | 176 |
| FoV read | 256 mm |
| FoV phase | 100.0 % |
| Slice thickness | 1.00 mm |
| TR | 5000 ms |
| TE | 392 ms |
| Averages | 1.0 |
| Concatenations | 1 |
| Filter | Raw filter, Distortion Corr.(3D), Prescan Normalize |
| Coil elements | HC1-7;NC1 |

Contrast - Common

| | |
|-------------------|----------------|
| TR | 5000 ms |
| TE | 392 ms |
| MTC | Off |
| Magn. preparation | Non-sel. T2-IR |
| T1 1 | 1800 ms |
| Fat suppr. | None |
| Blood suppr. | Off |
| Restore magn. | Off |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Averages | 1.0 |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution - Common

| | |
|-----------------------|---------|
| FoV read | 256 mm |
| FoV phase | 100.0 % |
| Slice thickness | 1.00 mm |
| Base resolution | 256 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | Allowed |
| Slice partial Fourier | 6/8 |
| Interpolation | Off |

Resolution - iPAT

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

Resolution - Filter Image

| | |
|-------------------|-----|
| Image Filter | Off |
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | Off |
| Prescan Normalize | On |
| Unfiltered images | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

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

Geometry - Common

| | |
|--------------------|-------------------|
| Slab group | 1 |
| Slabs | 1 |
| Position | R1.0 A5.8 F9.7 mm |
| Orientation | S > C-1.4 > T1.0 |
| Phase enc. dir. | A >> P |
| Slice oversampling | 0.0 % |
| Slices per slab | 176 |
| FoV read | 256 mm |
| FoV phase | 100.0 % |
| Slice thickness | 1.00 mm |
| TR | 5000 ms |
| Series | Ascending |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|-------------------|
| Slab group | 1 |
| Position | R1.0 A5.8 F9.7 mm |
| Orientation | S > C-1.4 > T1.0 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Basis |
| 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

| | |
|---------------|------|
| Fat suppr. | None |
| Restore magn. | Off |
| Special sat. | None |

Geometry - Navigator**System - Miscellaneous**

| | |
|------------------|-----------|
| Positioning mode | REF |
| Table position | H |
| Table position | 0 mm |
| MSMA | S - C - T |

System - Miscellaneous

| | |
|---------------------|------------------|
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Adaptive Combine |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | Head > Basis |
| Coil Select Mode | Default |

System - Adjustments

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

System - Adjust Volume

| | |
|-------------|-------------------|
| Position | R1.0 A5.8 F9.7 mm |
| Orientation | S > C-1.4 > T1.0 |
| Rotation | -7.43 deg |
| A >> P | 256 mm |
| F >> H | 256 mm |
| R >> L | 176 mm |
| Reset | Off |

System - pTx Volumes

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

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 123.250417 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 |
| Trigger delay | 0 ms |
| TR | 5000 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|-------------------|----------------|
| Magn. preparation | Non-sel. T2-IR |
| TI 1 | 1800 ms |
| Fat suppr. | None |
| Dark blood | Off |
| FoV read | 256 mm |
| FoV phase | 100.0 % |
| Phase resolution | 100 % |

Physio - PACE

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

Inline - Common

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

Inline - MIP

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

Inline - Composing

| | |
|-------------------|-----|
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | Off |

Sequence - Part 1

| | |
|---------------------|-----------|
| Introduction | Off |
| Dimension | 3D |
| Elliptical scanning | On |
| Reordering | Linear |
| Flow comp. | No |
| Echo spacing | 4.08 ms |
| Adiabatic-mode | Off |
| Bandwidth | 781 Hz/Px |

Sequence - Part 2

| | |
|---------------------|----------|
| Echo train duration | 963 ms |
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Non-sel. |
| Flip angle mode | T2 var |
| Turbo factor | 282 |

Sequence - Special

| | |
|-----------------------|--------|
| GRAPPA Regularization | 0.0001 |
|-----------------------|--------|

Sequence - Assistant

| | |
|---------------|-----|
| Allowed delay | 0 s |
|---------------|-----|

\\USER\DTse\dzne_ri\sv1.0_rhineland_3TPrisma\dzne-bn_QSMEPI_AP_ri

TA: 3:10 PM: REF Voxel size: 0.8×0.8×0.8 mmPAT: 6 Rel. SNR: 1.00 : ep 26e603e

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 | On |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| | |
|--------------------|--|
| Slab group | 1 |
| Slabs | 1 |
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Slice oversampling | 0.0 % |
| Slices per slab | 176 |
| FoV read | 216 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.80 mm |
| TR | 51.1 ms |
| Vol. TR | 44.968 s |
| TE 1 | 7.40 ms |
| TE 2 | 17.2 ms |
| TE 3 | 27 ms |
| TE 4 | 12.3 ms |
| TE 5 | 22.1 ms |
| TE 6 | 31.9 ms |
| Averages | 1 |
| Multi-echo Shots | 2 |
| Filter | Distortion Corr.(3D), Prescan Normalize |
| Coil elements | HC1-7 |

Contrast - Common

| | |
|--------------------|---------------------|
| TR | 51.1 ms |
| Vol. TR | 44.968 s |
| TE 1 | 7.40 ms |
| TE 2 | 17.2 ms |
| TE 3 | 27 ms |
| TE 4 | 12.3 ms |
| TE 5 | 22.1 ms |
| TE 6 | 31.9 ms |
| Multi-echo spacing | 9.80 ms |
| MTC | Off |
| Flip angle | 20 deg |
| Fat suppr. | Water excit. normal |

Contrast - Dynamic

| | |
|---------------------|-------------|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magn./Phase |
| Measurements | 2 |
| Pause after meas. 1 | 0.0 s |

Resolution - Common

| | |
|-----------------------|---------|
| FoV read | 216 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.80 mm |
| Base resolution | 270 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | 6/8 |
| Slice partial Fourier | Off |
| Interpolation | Off |

Resolution - iPAT

| | |
|---------------------|--------------|
| PAT mode | CAIPIRINHA |
| Accel. factor PE | 3 |
| Ref. lines PE | 24 |
| Accel. factor 3D | 2 |
| Ref. lines 3D | 48 |
| Reordering Shift 3D | 1 |
| Reference scan mode | GRE/separate |
| CAIPI Trajectory | w/o z-blips |

Resolution - Filter Image

| | |
|-------------------|-----|
| Image Filter | Off |
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | Off |
| Prescan Normalize | On |
| Unfiltered images | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

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

Geometry - Common

| | |
|--------------------|-------------------|
| Slab group | 1 |
| Slabs | 1 |
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| Slice oversampling | 0.0 % |
| Slices per slab | 176 |
| FoV read | 216 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.80 mm |
| TR | 51.1 ms |
| Vol. TR | 44.968 s |
| Multi-echo Shots | 2 |

Geometry - AutoAlign

| | |
|------------------|-------------------|
| Slab group | 1 |
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P0.0 H4.0 |
| R | 0.0 mm |
| A | 0.0 mm |
| H | 4.0 mm |
| Initial Rotation | 0.00 deg |

Geometry - AutoAlign

| | |
|---------------------|-------------|
| Initial Orientation | Transversal |
|---------------------|-------------|

Geometry - Saturation

| | |
|-----------------|---------------------|
| Saturation mode | Standard |
| Sat. region | 1 |
| Thickness | 150 mm |
| Position | L0.0 P0.0 F161.0 mm |
| Orientation | Transversal |

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 |
| Adjust with body coil | Off |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| | |
|-------------|-------------------|
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 216 mm |
| R >> L | 216 mm |
| F >> H | 141 mm |
| Reset | Off |

System - pTx Volumes

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

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 123.250417 MHz |
| Correction factor | 1 |
| Gain | Low |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Sequence - Part 1

| | |
|--------------|------------|
| Introduction | On |
| Dimension | 3D |
| Contrasts | 6 |
| Echo spacing | 1.2 ms |
| Bandwidth | 1090 Hz/Px |

Sequence - Part 2

| | |
|--------------|----|
| EPI factor | 7 |
| Segmentation | 10 |

Sequence - Part 2

| | |
|---------------|-------------|
| RF pulse type | Normal |
| Gradient mode | Performance |
| Excitation | Slab-sel. |
| RF spoiling | On |

Sequence - Special

| | |
|----------------------|------------|
| PAT ref. FA | 5 deg |
| RF duration | 1020 us |
| RF BWT product | 32 |
| Ernst T1 | 1200 ms |
| PATRef prep. shots | 100 |
| Volume dummy shots | 0 |
| Noise dummy shots | -1 |
| Integrated PC | Off |
| Invert PE | Off |
| Min. TE w/ PF | On |
| Dual-polarity | On |
| Phase Correction | per Series |
| Saturation RF | per Shot |
| EPI rise time factor | 1.05 |
| Mosaic DICOMs | On |
| Modify Ice Config | Off |
| Disable freq. adj. | Off |
| Slab Scale | -10 % |

Sequence - Assistant

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

\\USER\DTse\dzne_ri\sv1.0_rhineland_3TPrisma\dzne-bn_QSMEPI_PA_ri

TA: 3:09 PM: REF Voxel size: 0.8×0.8×0.8 mmPAT: 6 Rel. SNR: 1.00 : ep 26e603e

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 | On |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| | |
|--------------------|--|
| Slab group | 1 |
| Slabs | 1 |
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Slice oversampling | 0.0 % |
| Slices per slab | 176 |
| FoV read | 216 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.80 mm |
| TR | 51.1 ms |
| Vol. TR | 44.968 s |
| TE 1 | 7.40 ms |
| TE 2 | 17.2 ms |
| TE 3 | 27 ms |
| TE 4 | 12.3 ms |
| TE 5 | 22.1 ms |
| TE 6 | 31.9 ms |
| Averages | 1 |
| Multi-echo Shots | 2 |
| Filter | Distortion Corr.(3D), Prescan Normalize |
| Coil elements | HC1-7 |

Contrast - Common

| | |
|--------------------|---------------------|
| TR | 51.1 ms |
| Vol. TR | 44.968 s |
| TE 1 | 7.40 ms |
| TE 2 | 17.2 ms |
| TE 3 | 27 ms |
| TE 4 | 12.3 ms |
| TE 5 | 22.1 ms |
| TE 6 | 31.9 ms |
| Multi-echo spacing | 9.80 ms |
| MTC | Off |
| Flip angle | 20 deg |
| Fat suppr. | Water excit. normal |

Contrast - Dynamic

| | |
|---------------------|-------------|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magn./Phase |
| Measurements | 2 |
| Pause after meas. 1 | 0.0 s |

Resolution - Common

| | |
|-----------------------|---------|
| FoV read | 216 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.80 mm |
| Base resolution | 270 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | 6/8 |
| Slice partial Fourier | Off |
| Interpolation | Off |

Resolution - iPAT

| | |
|---------------------|--------------|
| PAT mode | CAIPIRINHA |
| Accel. factor PE | 3 |
| Ref. lines PE | 24 |
| Accel. factor 3D | 2 |
| Ref. lines 3D | 48 |
| Reordering Shift 3D | 1 |
| Reference scan mode | GRE/separate |
| CAIPI Trajectory | w/o z-blips |

Resolution - Filter Image

| | |
|-------------------|-----|
| Image Filter | Off |
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | Off |
| Prescan Normalize | On |
| Unfiltered images | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

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

Geometry - Common

| | |
|--------------------|-------------------|
| Slab group | 1 |
| Slabs | 1 |
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| Slice oversampling | 0.0 % |
| Slices per slab | 176 |
| FoV read | 216 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.80 mm |
| TR | 51.1 ms |
| Vol. TR | 44.968 s |
| Multi-echo Shots | 2 |

Geometry - AutoAlign

| | |
|------------------|-------------------|
| Slab group | 1 |
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P0.0 H4.0 |
| R | 0.0 mm |
| A | 0.0 mm |
| H | 4.0 mm |
| Initial Rotation | 0.00 deg |

Geometry - AutoAlign

| | |
|---------------------|-------------|
| Initial Orientation | Transversal |
|---------------------|-------------|

Geometry - Saturation

| | |
|-----------------|---------------------|
| Saturation mode | Standard |
| Sat. region | 1 |
| Thickness | 150 mm |
| Position | L0.0 P0.0 F161.0 mm |
| Orientation | Transversal |

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 |
| Adjust with body coil | Off |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| | |
|-------------|-------------------|
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 216 mm |
| R >> L | 216 mm |
| F >> H | 141 mm |
| Reset | Off |

System - pTx Volumes

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

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 123.250417 MHz |
| Correction factor | 1 |
| Gain | Low |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Sequence - Part 1

| | |
|--------------|------------|
| Introduction | Off |
| Dimension | 3D |
| Contrasts | 6 |
| Echo spacing | 1.2 ms |
| Bandwidth | 1090 Hz/Px |

Sequence - Part 2

| | |
|--------------|----|
| EPI factor | 7 |
| Segmentation | 10 |

Sequence - Part 2

| | |
|---------------|-------------|
| RF pulse type | Normal |
| Gradient mode | Performance |
| Excitation | Slab-sel. |
| RF spoiling | On |

Sequence - Special

| | |
|----------------------|------------|
| PAT ref. FA | 5 deg |
| RF duration | 1020 us |
| RF BWT product | 32 |
| Ernst T1 | 1200 ms |
| PATRef prep. shots | 100 |
| Volume dummy shots | 0 |
| Noise dummy shots | -1 |
| Integrated PC | Off |
| Invert PE | On |
| Min. TE w/ PF | On |
| Dual-polarity | On |
| Phase Correction | per Series |
| Saturation RF | per Shot |
| EPI rise time factor | 1.05 |
| Mosaic DICOMs | On |
| Modify Ice Config | Off |
| Disable freq. adj. | Off |
| Slab Scale | -10 % |

Sequence - Assistant

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

\\USER\DTse\ldzne_rls\v1.0_rhineland_3TPrisma\DSI_r_rls

TA: 0:43 PM: FIX Voxel size: 1.5×1.5×1.5 mmPAT: 3 Rel. SNR: 1.00 : epse

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 | On |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Resolution - iPAT

| | |
|---------------------|--------------|
| Accel. factor slice | 3 |
| Reference scan mode | EPI/separate |

Resolution - Filter Image

| | |
|---------------------|-----|
| Distortion Corr. | Off |
| Prescan Normalize | On |
| Dynamic Field Corr. | Off |

Resolution - Filter Rawdata

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

Routine

| | |
|--------------------|-------------------------------|
| Slice group | 1 |
| Slices | 93 |
| Dist. factor | 0 % |
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | T > C-6.0 |
| Phase enc. dir. | P >> A |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| FoV read | 210 mm |
| FoV phase | 100.0 % |
| Slice thickness | 1.5 mm |
| TR | 5500 ms |
| TE | 105.0 ms |
| Concatenations | 1 |
| Filter | Raw filter, Prescan Normalize |
| Coil elements | HC1-7 |

Geometry - Common

| | |
|------------------|-------------------|
| Slice group | 1 |
| Slices | 93 |
| Dist. factor | 0 % |
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | T > C-6.0 |
| Phase enc. dir. | P >> A |
| FoV read | 210 mm |
| FoV phase | 100.0 % |
| Slice thickness | 1.5 mm |
| TR | 5500 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|-------------------|
| Slice group | 1 |
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | T > C-6.0 |
| Phase enc. dir. | P >> A |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P0.0 H4.0 |
| L | 0.0 mm |
| A | 0.0 mm |
| H | 4.0 mm |
| Initial Rotation | -180.00 deg |
| Initial Orientation | T > C |
| T > C | -6.0 |
| > S | 0.0 |

Contrast - Common

| | |
|-------------------|----------|
| TR | 5500 ms |
| TE | 105.0 ms |
| MTC | Off |
| Magn. preparation | None |
| Fat suppr. | Fat sat. |
| Fat sat. mode | Strong |

Contrast - Dynamic

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

Resolution - Common

| | |
|-----------------------|---------|
| FoV read | 210 mm |
| FoV phase | 100.0 % |
| Slice thickness | 1.5 mm |
| Base resolution | 140 |
| Phase resolution | 100 % |
| Phase partial Fourier | 6/8 |
| Interpolation | Off |

Resolution - iPAT

| | |
|------------------|--------------|
| Accel. mode | Slice accel. |
| Accel. factor PE | 1 |
| Ref. lines PE | 32 |

Geometry - Saturation

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

Geometry - Navigator**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 | Adaptive Combine |
| Matrix Optimization | Off |
| AutoAlign | Head > Brain |

System - Miscellaneous

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

System - Adjustments

| | |
|--------------------------|----------|
| B0 Shim mode | Standard |
| B1 Shim mode | TrueForm |
| Adjust with body coil | Off |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| | |
|-------------|-------------------|
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | T > C-6.0 |
| Rotation | 180.00 deg |
| A >> P | 210 mm |
| R >> L | 210 mm |
| F >> H | 140 mm |
| Reset | Off |

System - pTx Volumes

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

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 123.250417 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 | 5500 ms |
| Concatenations | 1 |

Physio - PACE

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

Diff - Neuro

| | |
|-----------------------|---------------------|
| Diffusion mode | Free |
| Diff. directions | 119 |
| Diffusion Scheme | Monopolar |
| Diff. weightings | 1 |
| b-value | 0 s/mm ² |
| b-value | 4 |
| Diff. weighted images | On |
| Trace weighted images | Off |
| ADC maps | Off |
| FA maps | Off |
| Mosaic | Off |
| Tensor | Off |
| Noise level | 40 |

Diff - Body

| | |
|------------------|---------------------|
| Diffusion mode | Free |
| Diff. directions | 119 |
| Diffusion Scheme | Monopolar |
| Diff. weightings | 1 |
| b-value | 0 s/mm ² |
| b-value | 4 |

Diff - Body

| | |
|-----------------------|---------------------|
| Diff. weighted images | On |
| Trace weighted images | Off |
| ADC maps | Off |
| Exponential ADC Maps | Off |
| FA maps | Off |
| Invert Gray Scale | Off |
| Calculated Image | Off |
| b-Value >= | 0 s/mm ² |
| Noise level | 40 |

Diff - Composing

| | |
|------------------|-----|
| Distortion Corr. | Off |
|------------------|-----|

Sequence - Part 1

| | |
|-------------------|-------------|
| Introduction | Off |
| Optimization | None |
| Multi-slice mode | Interleaved |
| Free echo spacing | Off |
| Echo spacing | 0.72 ms |
| Bandwidth | 1624 Hz/Px |

Sequence - Part 2

| | |
|---------------|-------------|
| EPI factor | 140 |
| RF pulse type | Low SAR |
| Gradient mode | Performance |
| Excitation | Standard |

Sequence - pTX Pulses

\\USER\DTseldzne_rls\v1.0_rhineland_3TPrisma\DSI_rls

TA: 11:21 PM: FIX Voxel size: 1.5×1.5×1.5 mmPAT: 3 Rel. SNR: 1.00 : epse

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 | On |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| | |
|--------------------|----------------------------------|
| Slice group | 1 |
| Slices | 93 |
| Dist. factor | 0 % |
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | T > C-6.0 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| FoV read | 210 mm |
| FoV phase | 100.0 % |
| Slice thickness | 1.5 mm |
| TR | 5500 ms |
| TE | 105.0 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Raw filter, Prescan Normalize |
| Coil elements | HC1-7 |

Contrast - Common

| | |
|-------------------|----------|
| TR | 5500 ms |
| TE | 105.0 ms |
| MTC | Off |
| Magn. preparation | None |
| Fat suppr. | Fat sat. |
| Fat sat. mode | Strong |

Contrast - Dynamic

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

Resolution - Common

| | |
|-----------------------|---------|
| FoV read | 210 mm |
| FoV phase | 100.0 % |
| Slice thickness | 1.5 mm |
| Base resolution | 140 |
| Phase resolution | 100 % |
| Phase partial Fourier | 6/8 |
| Interpolation | Off |

Resolution - iPAT

| | |
|-------------|--------------|
| Accel. mode | Slice accel. |
|-------------|--------------|

Resolution - iPAT

| | |
|---------------------|--------------|
| Accel. factor PE | 1 |
| Ref. lines PE | 32 |
| Accel. factor slice | 3 |
| Reference scan mode | EPI/separate |

Resolution - Filter Image

| | |
|---------------------|-----|
| Distortion Corr. | Off |
| Prescan Normalize | On |
| Dynamic Field Corr. | Off |

Resolution - Filter Rawdata

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

Geometry - Common

| | |
|------------------|-------------------|
| Slice group | 1 |
| Slices | 93 |
| Dist. factor | 0 % |
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | T > C-6.0 |
| Phase enc. dir. | A >> P |
| FoV read | 210 mm |
| FoV phase | 100.0 % |
| Slice thickness | 1.5 mm |
| TR | 5500 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|-------------------|
| Slice group | 1 |
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | T > C-6.0 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P0.0 H4.0 |
| L | 0.0 mm |
| P | 0.0 mm |
| H | 4.0 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | T > C |
| T > C | -6.0 |
| > S | 0.0 |

Geometry - Saturation

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

Geometry - Navigator**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 | Adaptive Combine |

System - Miscellaneous

| | |
|---------------------|--------------|
| Matrix Optimization | Off |
| AutoAlign | Head > Brain |
| Coil Select Mode | Default |

System - Adjustments

| | |
|--------------------------|----------|
| B0 Shim mode | Standard |
| B1 Shim mode | TrueForm |
| Adjust with body coil | Off |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| | |
|-------------|-------------------|
| Position | L0.0 P0.0 H4.0 mm |
| Orientation | T > C-6.0 |
| Rotation | 0.00 deg |
| A >> P | 210 mm |
| R >> L | 210 mm |
| F >> H | 140 mm |
| Reset | Off |

System - pTx Volumes

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

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 123.250417 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 | 5500 ms |
| Concatenations | 1 |

Physio - PACE

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

Diff - Neuro

| | |
|-----------------------|------------------------|
| Diffusion mode | Free |
| Diff. directions | 119 |
| Diffusion Scheme | Monopolar |
| Diff. weightings | 2 |
| b-value 1 | 0 s/mm ² |
| b-value 2 | 6800 s/mm ² |
| b-value 1 | 1 |
| b-value 2 | 1 |
| Diff. weighted images | On |
| Trace weighted images | Off |
| ADC maps | Off |
| FA maps | Off |
| Mosaic | On |
| Tensor | Off |
| Noise level | 40 |

Diff - Body

| | |
|------------------|------|
| Diffusion mode | Free |
| Diff. directions | 119 |

Diff - Body

| | |
|-----------------------|------------------------|
| Diffusion Scheme | Monopolar |
| Diff. weightings | 2 |
| b-value 1 | 0 s/mm ² |
| b-value 2 | 6800 s/mm ² |
| b-value 1 | 1 |
| b-value 2 | 1 |
| Diff. weighted images | On |
| Trace weighted images | Off |
| ADC maps | Off |
| Exponential ADC Maps | Off |
| FA maps | Off |
| Invert Gray Scale | Off |
| Calculated Image | Off |
| b-Value >= | 0 s/mm ² |
| Noise level | 40 |

Diff - Composing

| | |
|------------------|-----|
| Distortion Corr. | Off |
|------------------|-----|

Sequence - Part 1

| | |
|-------------------|-------------|
| Introduction | Off |
| Optimization | None |
| Multi-slice mode | Interleaved |
| Free echo spacing | Off |
| Echo spacing | 0.72 ms |
| Bandwidth | 1624 Hz/Px |

Sequence - Part 2

| | |
|---------------|-------------|
| EPI factor | 140 |
| RF pulse type | Low SAR |
| Gradient mode | Performance |
| Excitation | Standard |

Sequence - pTX Pulses

\\USER\DTse\dzne_rls\1.0_rhineland_3TPrisma\BodyScout

TA: 0:15 PM: ISO Voxel size: 5.0×5.0×5.0 mmRel. SNR: 1.00 : flct

Properties

| | |
|---|--------------------|
| Prio recon | On |
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| 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 | 100 % |
| Position | L0.0 A25.0 F103.0 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | --- |
| FoV read | 480 mm |
| FoV phase | 87.5 % |
| Slice thickness | 5 mm |
| TR | 2.56 ms |
| TE | 1.44 ms |
| Filter | Distortion Corr.(2D) |
| Coil elements | BC |

Contrast - Common

| | |
|----|---------|
| TR | 2.56 ms |
| TE | 1.44 ms |

Resolution - Common

| | |
|-----------------------|--------|
| FoV read | 480 mm |
| FoV phase | 87.5 % |
| Slice thickness | 5 mm |
| Base resolution | 96 |
| Phase resolution | 100 % |
| Phase partial Fourier | 6/8 |

Geometry - Common

| | |
|-----------------|----------------------|
| Slice group | 1 |
| Slices | 1 |
| Dist. factor | 100 % |
| Position | L0.0 A25.0 F103.0 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| FoV read | 480 mm |
| FoV phase | 87.5 % |
| Slice thickness | 5 mm |
| TR | 2.56 ms |

Geometry - AutoAlign

| | |
|------------------|----------------------|
| Slice group | 1 |
| Position | L0.0 A25.0 F103.0 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L0.0 A25.0 F103.0 |

Geometry - AutoAlign

| | |
|---------------------|-------------|
| L | 0.0 mm |
| A | 25.0 mm |
| F | 103.0 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Transversal |

Geometry - Tim CT

| | |
|-------------------------|---------|
| Tim CT mode | On |
| Range start | F |
| Range start | 100 mm |
| Total FoV | H >> F |
| Total FoV | 700 mm |
| Slices | 1 |
| Slice thickness | 5 mm |
| Dist. factor | 100 % |
| FoV read | 480 mm |
| FoV phase | 87.5 % |
| Perform CTM adjustments | Off |
| Table Speed | 46 mm/s |

System - Miscellaneous

| | |
|---------------------|-----------|
| Positioning mode | ISO |
| Table position | F |
| Table position | 103 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Matrix Optimization | Off |
| AutoAlign | --- |
| Coil Select Mode | Off - All |

System - Adjustments

| | |
|-------------------------|----------|
| B0 Shim mode | Tune up |
| B1 Shim mode | TrueForm |
| Adj. water suppr. | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Perform CTM adjustments | Off |
| Adjustment Tolerance | Maximum |

System - pTx Volumes

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

System - Tx/Rx

| | |
|-------------------|----------------|
| Frequency 1H | 123.250417 MHz |
| Correction factor | 1 |
| Img. Scale Cor. | 1.000 |

Sequence - Part 1

| | |
|-----------|------------------|
| Dimension | 2D |
| Bandwidth | 801.282051 Hz/Px |

Sequence - Assistant

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

\\USER\DTse\dzne_rls\1.0_rhineland_3TPrisma\FatImaging

TA: 0:12 PM: ISO Voxel size: 2.0×2.0×5.0 mmPAT: Off Rel. SNR: 1.00 : fl

Properties

| | |
|---|--------------------|
| Prio recon | On |
| 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

| | |
|--------------------|----------------------|
| Slab group | 1 |
| Slabs | 1 |
| Dist. factor | 20 % |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | --- |
| Phase oversampling | 0 % |
| Slice oversampling | 0.0 % |
| Slices per slab | 72 |
| FoV read | 500 mm |
| FoV phase | 87.5 % |
| Slice thickness | 5.0 mm |
| TR | 4.12 ms |
| TE 1 | 1.23 ms |
| TE 2 | 2.46 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Distortion Corr.(3D) |
| Coil elements | BC |

Contrast - Common

| | |
|------------------|---------|
| TR | 4.12 ms |
| TE 1 | 1.23 ms |
| TE 2 | 2.46 ms |
| Flip angle | 6.0 deg |
| Fat suppr. | None |
| Water suppr. | None |
| Dixon | On |
| Dixon evaluation | Off |

Contrast - Dynamic

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

Resolution - Common

| | |
|-----------------------|--------|
| FoV read | 500 mm |
| FoV phase | 87.5 % |
| Slice thickness | 5.0 mm |
| Base resolution | 256 |
| Phase resolution | 75 % |
| Slice resolution | 50 % |
| Phase partial Fourier | 6/8 |

Resolution - Common

| | |
|-----------------------|-----------|
| Slice partial Fourier | 5/8 |
| Trajectory | Cartesian |
| View sharing | Off |
| Interpolation | Off |

Resolution - iPAT

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

Resolution - Filter Image

| | |
|-------------------|-----|
| Image Filter | Off |
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

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

Geometry - Common

| | |
|--------------------|-------------|
| Slab group | 1 |
| Slabs | 1 |
| Dist. factor | 20 % |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| Slice oversampling | 0.0 % |
| Slices per slab | 72 |
| FoV read | 500 mm |
| FoV phase | 87.5 % |
| Slice thickness | 5.0 mm |
| TR | 4.12 ms |
| Multi-slice mode | Sequential |
| Series | Ascending |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|------------------|
| Slab group | 1 |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | --- |
| Initial Position | L0.0 P0.0 F640.0 |
| L | 0.0 mm |
| P | 0.0 mm |
| F | 640.0 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Transversal |

Geometry - Saturation

| | |
|------------------|------|
| Fat suppr. | None |
| Water suppr. | None |
| Dixon | On |
| Dixon evaluation | Off |
| Special sat. | None |

System - Miscellaneous

| | |
|---------------------|------------------|
| Positioning mode | ISO |
| Table position | F |
| Table position | 640 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combine Mode | Adaptive Combine |
| Save uncombined | Off |
| Matrix Optimization | Performance |
| AutoAlign | --- |
| Coil Select Mode | Off - All |

System - Adjustments

| | |
|--------------------------|----------|
| B0 Shim mode | Standard |
| B1 Shim mode | TrueForm |
| Adjust with body coil | Off |
| 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 | 438 mm |
| R >> L | 500 mm |
| F >> H | 360 mm |
| Reset | Off |

System - pTx Volumes

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

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 123.250417 MHz |
| Correction factor | 1 |
| Gain | Low |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Physio - PACE

| | |
|----------------|-------------|
| Resp. control | Breath-hold |
| Concatenations | 1 |

Inline - Common

| | |
|------------------------|---------|
| View sharing | Off |
| Flip angle | 6.0 deg |
| Measurements | 1 |
| Burn time-to-center | Off |
| Temporal interpolation | 1 |
| 3D centric reordering | On |
| Time to center | 0.5 s |

Inline - Inline

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

| | |
|-------------------|-----|
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | Off |

Inline - MapIt

| | |
|----------------------|---------|
| Save original images | On |
| MapIt | None |
| Flip angle | 6.0 deg |
| Measurements | 1 |
| Contrasts | 2 |
| TR | 4.12 ms |
| TE 1 | 1.23 ms |
| TE 2 | 2.46 ms |

Sequence - Part 1

| | |
|---------------------|------------|
| Introduction | Off |
| Dimension | 3D |
| Elliptical scanning | On |
| Asymmetric echo | Weak |
| Contrasts | 2 |
| Readout mode | Bipolar |
| Optimization | In phase |
| Multi-slice mode | Sequential |
| Bandwidth 1 | 750 Hz/Px |
| Bandwidth 2 | 750 Hz/Px |

Sequence - Part 2

| | |
|-------------------------|-----------|
| RF pulse type | Fast |
| Gradient mode | Fast |
| Excitation | Slab-sel. |
| RF spoiling | On |
| Incr. Gradient spoiling | On |

Sequence - Assistant

| | |
|---------------|------|
| Mode | Off |
| Allowed delay | 30 s |

\\USER\DTse\ldzne_rls\v1.0_rhineland_3TPrisma\ldzne-bn_logstop

TA: 1.3 s PM: REF Voxel size: 2.3×2.3×5.0 mmRel. SNR: 1.00 : fl

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 | On |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| | |
|-----------------|-------------|
| Slice group | 1 |
| Slices | 1 |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | --- |
| FoV read | 300 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 10.00 ms |
| TE | 5.00 ms |
| Filter | None |
| Coil elements | BC |

Contrast - Common

| | |
|------------|----------|
| TR | 10.00 ms |
| TE | 5.00 ms |
| Flip angle | 15 deg |

Resolution - Common

| | |
|------------------|---------|
| FoV read | 300 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| Base resolution | 128 |
| Phase resolution | 100 % |

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 |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| FoV read | 300 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |

Geometry - Common

| | |
|----|----------|
| TR | 10.00 ms |
|----|----------|

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 |
| F | 0.0 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Transversal |

System - Miscellaneous

| | |
|---------------------|------------------|
| Positioning mode | REF |
| Table position | F |
| Table position | 640 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Adaptive Combine |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | --- |
| Coil Select Mode | Default |

System - Adjustments

| | |
|--------------------------|----------|
| B0 Shim mode | Tune up |
| B1 Shim mode | TrueForm |
| Adjust with body coil | Off |
| 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 |
|--------------|----------|

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 123.250417 MHz |
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Sequence - Part 1

| | |
|-----------|-----------|
| Bandwidth | 800 Hz/Px |
|-----------|-----------|

Sequence - Special

| | |
|-----------------|-----|
| Log external | Off |
| Log external 2 | Off |
| Log respiration | Off |
| Log pulse | Off |
| Log ekg | Off |

Sequence - Assistant

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