**\\NSI_MR_Research\final_studies\3D_EPI_Spielplatz\Ausprobiert_invivo\RenzLay3_functional**

TA: 14:51 PM: REF Voxel size: 0.9×0.9×0.9 mmPAT: 2 Rel. SNR: 1.00 : RenzLay

## 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 | 50 % |
| Position | R1.2 A4.1 H50.2 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | --- |
| Phase oversampling | 0 % |
| Slice oversampling | 8.3 % |
| Slices per slab | 24 |
| FoV read | 173 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.92 mm |
| TR | 71 ms |
| TE | 38.0 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | None |
| Coil elements | HC1-6 |

## Contrast - Common

| | |
|---|---|
| TR | 71 ms |
| TE | 38.0 ms |
| MTC | Off |
| Flip angle | 19 deg |
| Fat suppr. | Fat sat. |
| SWI | Off |

## Contrast - Dynamic

| | |
|---|---|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 303 |
| Multiple series | Each measurement |

## Resolution - Common

| | |
|---|---|
| FoV read | 173 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.92 mm |
| Base resolution | 192 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | 6/8 |
| Slice partial Fourier | 6/8 |
| Interpolation | Off |

## Resolution - iPAT

| | |
|---|---|
| PAT mode | GRAPPA |
| Accel. factor PE | 2 |
| Ref. lines PE | 47 |
| Accel. factor 3D | 1 |
| Ref. lines 3D | 24 |
| Reference scan mode | GRE/separate |

## Resolution - Filter Image

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

## Resolution - Filter Rawdata

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

## Geometry - Common

| | |
|---|---|
| Slab group | 1 |
| Slabs | 1 |
| Dist. factor | 50 % |
| Position | R1.2 A4.1 H50.2 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| Slice oversampling | 8.3 % |
| Slices per slab | 24 |
| FoV read | 173 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.92 mm |
| TR | 71 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

## Geometry - AutoAlign

| | |
|---|---|
| Slab group | 1 |
| Position | R1.2 A4.1 H50.2 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | --- |
| Initial Position | R1.2 A4.1 H50.2 |
| R | 1.2 mm |
| A | 4.1 mm |
| H | 50.2 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 |

## 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 | --- |
| 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 A0.7 H38.4 mm |
| ! Orientation | Transversal |
| ! Rotation | 0.00 deg |
| ! A >> P | 173 mm |
| ! R >> L | 173 mm |
| ! F >> H | 45 mm |
| Reset | Off |

## System - pTx Volumes

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

## System - Tx/Rx

| | |
|---|---|
| Frequency 1H | 123.248138 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 | 71 ms |
| Concatenations | 1 |

## Sequence - Part 1

| | |
|---|---|
| Introduction | Off |
| Dimension | 3D |
| Reordering | Linear rot. |
| Multi-slice mode | Interleaved |
| Free echo spacing | On |
| Echo spacing | 1.11 ms |
| Bandwidth | 1302 Hz/Px |

## Sequence - Part 2

| | |
|---|---|
| EPI factor | 55 |
| RF pulse type | Normal |
| Gradient mode | Fast |
| RF spoiling | On |