

# SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\20min\_protocols\knee\knee\pd\_tse\_sag

TA: 3:35    PAT: 2    Voxel size: 0.4x0.3x2.5 mm    Rel. SNR: 1.00    SIEMENS: tse

## Properties

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

## Routine

|                    |                              |
|--------------------|------------------------------|
| Slice group 1      |                              |
| Slices             | 35                           |
| Dist. factor       | 10 %                         |
| Position           | Isocenter                    |
| Orientation        | Sagittal                     |
| Phase enc. dir.    | H >> F                       |
| Rotation           | 90.00 deg                    |
| Phase oversampling | 75 %                         |
| FoV read           | 140 mm                       |
| FoV phase          | 100.0 %                      |
| Slice thickness    | 2.5 mm                       |
| TR                 | 3000 ms                      |
| TE                 | 19.0 ms                      |
| Averages           | 1                            |
| Concatenations     | 1                            |
| Filter             | Normalize, Elliptical filter |
| Coil elements      | K15                          |

## Contrast

|                   |                  |
|-------------------|------------------|
| MTC               | Off              |
| Magn. preparation | None             |
| Flip angle        | 150 deg          |
| Fat suppr.        | None             |
| Water suppr.      | None             |
| Restore magn.     | On               |
| -----             |                  |
| Averaging mode    | Long term        |
| Reconstruction    | Magnitude        |
| Measurements      | 1                |
| Multiple series   | Each measurement |

## Resolution

|                       |               |
|-----------------------|---------------|
| Base resolution       | 512           |
| Phase resolution      | 75 %          |
| Phase partial Fourier | Off           |
| Trajectory            | Cartesian     |
| Interpolation         | Off           |
| -----                 |               |
| PAT mode              | GRAPPA        |
| Accel. factor PE      | 2             |
| Ref. lines PE         | 27            |
| Matrix Coil Mode      | Auto (Triple) |
| Reference scan mode   | Integrated    |
| -----                 |               |
| Image Filter          | Off           |
| Distortion Corr.      | Off           |
| Prescan Normalize     | Off           |
| Normalize             | On            |

|                   |         |
|-------------------|---------|
| Intensity         | Medium  |
| Cut off           | 20      |
| Width             | 4       |
| Unfiltered images | Off     |
| B1 filter         | Off     |
| Raw filter        | Off     |
| Elliptical filter | On      |
| Mode              | Inplane |

## Geometry

|                   |                  |
|-------------------|------------------|
| Multi-slice mode  | Interleaved      |
| Series            | Interleaved      |
| -----             |                  |
| Sat. region 1     |                  |
| Thickness         | 80 mm            |
| Position          | R5.9 P66.5 F19.0 |
| Orientation       | C > S5.0         |
| Special sat.      | None             |
| -----             |                  |
| Set-n-Go Protocol | Off              |
| Table position    | H                |
| Table position    | 0 mm             |
| Inline Composing  | Off              |
| -----             |                  |
| Tim CT mode       | Off              |

## System

|                          |                  |
|--------------------------|------------------|
| Body                     | Off              |
| K15                      | On               |
| -----                    |                  |
| Positioning mode         | FIX              |
| MSMA                     | S - C - T        |
| Sagittal                 | R >> L           |
| Coronal                  | A >> P           |
| Transversal              | H >> F           |
| Coil Combine Mode        | Adaptive Combine |
| AutoAlign                | ---              |
| Auto Coil Select         | Default          |
| -----                    |                  |
| Shim mode                | Standard         |
| Adjust with body coil    | Off              |
| Confirm freq. adjustment | Off              |
| Assume Silicone          | Off              |
| ? Ref. amplitude 1H      | 0.000 V          |
| Adjustment Tolerance     | Auto             |
| Adjust volume            |                  |
| Position                 | Isocenter        |
| Orientation              | Sagittal         |
| Rotation                 | 90.00 deg        |
| A >> P                   | 140 mm           |
| F >> H                   | 140 mm           |
| R >> L                   | 97 mm            |

## Physio

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

## Inline

|             |     |
|-------------|-----|
| Subtract    | Off |
| Std-Dev-Sag | Off |
| Std-Dev-Cor | Off |

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

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## Sequence

|                     |           |
|---------------------|-----------|
| Introduction        | On        |
| Dimension           | 2D        |
| Compensate T2 decay | Off       |
| Reduce Motion Sens. | Off       |
| Contrasts           | 1         |
| Bandwidth           | 257 Hz/Px |
| Flow comp.          | No        |
| Allowed delay       | 60 s      |
| Echo spacing        | 9.35 ms   |

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|                       |              |
|-----------------------|--------------|
| Define                | Turbo factor |
| Turbo factor          | 5            |
| Echo trains per slice | 70           |
| RF pulse type         | Fast         |
| Gradient mode         | Fast         |