**\\USER\Hutcherson\Daniel\FoodRegfMRI Updated\AAHead_Scout_32ch-head-coil**

TA: 0:14 PM: REF Voxel size: 1.6×1.6×1.6 mmPAT: 3 Rel. 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 | 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 A10.0 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 A10.0 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 A10.0 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 | Default |

## 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 | 123.243127 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 |

### Sequence - Part 1

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

### Sequence - Part 2

| | |
|---|---|
| RF spoiling | On |

### Sequence - Assistant

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

**\\USER\Hutcherson\Daniel\FoodRegfMRI Updated\localizer**

TA: 0:49 PM: REF Voxel size: 0.5×0.5×4.0 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 | 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 | 10 |
| Dist. factor | 20 % |
| Position | L3.3 A17.3 H24.8 mm |
| Orientation | S > C-2.0 > T-0.8 |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 1 |
| Dist. factor | 20 % |
| Position | L3.3 A17.3 H24.8 mm |
| Orientation | T > C-2.5 > S0.8 |
| Phase enc. dir. | A >> P |
| Slice group | 3 |
| Slices | 1 |
| Dist. factor | 20 % |
| Position | L3.3 A17.3 H24.8 mm |
| Orientation | C > T2.5 > S2.0 |
| Phase enc. dir. | R >> L |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| FoV read | 240 mm |
| FoV phase | 100.0 % |
| Slice thickness | 4.0 mm |
| TR | 8.6 ms |
| TE | 4.00 ms |
| Averages | 2 |
| Concatenations | 12 |
| Filter | Prescan Normalize, Elliptical filter |
| Coil elements | HEA;HEP |

### Contrast - Common

| | |
|---|---|
| TR | 8.6 ms |
| TE | 4.00 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 | 240 mm |
| FoV phase | 100.0 % |
| Slice thickness | 4.0 mm |
| Base resolution | 256 |
| Phase resolution | 90 % |
| Phase partial Fourier | Off |
| Interpolation | On |

### Resolution - iPAT

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

### 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 | On |

### Geometry - Common

| | |
|---|---|
| Slice group | 1 |
| Slices | 10 |
| Dist. factor | 20 % |
| Position | L3.3 A17.3 H24.8 mm |
| Orientation | S > C-2.0 > T-0.8 |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 1 |
| Dist. factor | 20 % |
| Position | L3.3 A17.3 H24.8 mm |
| Orientation | T > C-2.5 > S0.8 |
| Phase enc. dir. | A >> P |
| Slice group | 3 |
| Slices | 1 |
| Dist. factor | 20 % |
| Position | L3.3 A17.3 H24.8 mm |
| Orientation | C > T2.5 > S2.0 |
| Phase enc. dir. | R >> L |
| FoV read | 240 mm |
| FoV phase | 100.0 % |
| Slice thickness | 4.0 mm |
| TR | 8.6 ms |
| Multi-slice mode | Sequential |
| Series | Interleaved |
| Concatenations | 12 |

### Geometry - AutoAlign

| | |
|---|---|
| Slice group | 1 |
| Position | L3.3 A17.3 H24.8 mm |
| Orientation | S > C-2.0 > T-0.8 |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Position | L3.3 A17.3 H24.8 mm |

### Geometry - AutoAlign

| | |
|---|---|
| Orientation | T > C-2.5 > S0.8 |
| Phase enc. dir. | A >> P |
| Slice group | 3 |
| Position | L3.3 A17.3 H24.8 mm |
| Orientation | C > T2.5 > S2.0 |
| Phase enc. dir. | R >> L |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 A20.0 H0.0 |
| L | 0.0 mm |
| A | 20.0 mm |
| H | 0.0 mm |
| Initial Rotation | -0.02 deg |
| Initial Orientation | Sagittal |

### 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 |
| 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 > Brain |
| Coil Select Mode | Off - AutoCoilSelect |

### 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 |
| Excitation | Slice-sel. |

### System - Tx/Rx

| | |
|---|---|
| Frequency 1H | 123.243127 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 | 12 |
| Segments | 1 |

### Physio - Cardiac

| | |
|---|---|
| Magn. preparation | None |
| Fat suppr. | None |
| Dark blood | Off |
| FoV read | 240 mm |
| FoV phase | 100.0 % |
| Phase resolution | 90 % |

### Physio - PACE

| | |
|---|---|
| Resp. control | Off |
| Concatenations | 12 |

### 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

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

### 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 | None |
| RF pulse type | Normal |
| Gradient mode | Normal |
| Excitation | Slice-sel. |
| RF spoiling | On |

### Sequence - Assistant

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

**\\USER\Hutcherson\Daniel\FoodRegfMRI Updated\t1_mprage_tra_p2_iso**

TA: 7:10 PM: REF Voxel size: 1.0×1.0×1.0 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 | On |
| Start measurements | Single measurement |

### Routine

| | |
|---|---|
| Slab group | 1 |
| Slabs | 1 |
| Dist. factor | 50 % |
| Position | L3.5 A17.9 H22.0 mm |
| Orientation | T > C-6.7 > S1.2 |
| Phase enc. dir. | R >> L |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| Slice oversampling | 60.0 % |
| Slices per slab | 160 |
| FoV read | 256 mm |
| FoV phase | 75.0 % |
| Slice thickness | 1.00 mm |
| TR | 2000.0 ms |
| TE | 2.4 ms |
| Averages | 2 |
| Concatenations | 1 |
| Filter | Prescan Normalize, Image Filter |
| Coil elements | HEA;HEP |

### Contrast - Common

| | |
|---|---|
| TR | 2000.0 ms |
| TE | 2.4 ms |
| Magn. preparation | Non-sel. IR |
| TI | 1100 ms |
| Flip angle | 9 deg |
| Fat suppr. | None |
| Water suppr. | None |

### Contrast - Dynamic

| | |
|---|---|
| Averages | 2 |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

### Resolution - Common

| | |
|---|---|
| FoV read | 256 mm |
| FoV phase | 75.0 % |
| Slice thickness | 1.00 mm |
| Base resolution | 256 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | Off |
| Slice partial Fourier | Off |

### Resolution - Common

| | |
|---|---|
| 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 | On |
| ! Intensity | Medium |
| Edge Enhancement | 3 |
| Smoothing | 2 |
| Unfiltered images | 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 | 50 % |
| Position | L3.5 A17.9 H22.0 mm |
| Orientation | T > C-6.7 > S1.2 |
| Phase enc. dir. | R >> L |
| Slice oversampling | 60.0 % |
| Slices per slab | 160 |
| FoV read | 256 mm |
| FoV phase | 75.0 % |
| Slice thickness | 1.00 mm |
| TR | 2000.0 ms |
| Multi-slice mode | Single shot |
| Series | Ascending |
| Concatenations | 1 |

### Geometry - AutoAlign

| | |
|---|---|
| Slab group | 1 |
| Position | L3.5 A17.9 H22.0 mm |
| Orientation | T > C-6.7 > S1.2 |
| Phase enc. dir. | R >> L |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 A20.5 F2.8 |
| L | 0.0 mm |
| A | 20.5 mm |
| F | 2.8 mm |
| Initial Rotation | 90.09 deg |
| Initial Orientation | T > C |
| T > C | -4.2 |
| > S | 0.2 |

### 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 | Adaptive Combine |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | Head > Brain |
| Coil Select Mode | Off - AutoCoilSelect |

### 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 |
| Excitation | Slab-sel. |

### System - Tx/Rx

| | |
|---|---|
| Frequency 1H | 123.243127 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 | 2000.0 ms |
| Concatenations | 1 |

### Physio - Cardiac

| | |
|---|---|
| Magn. preparation | Non-sel. IR |
| TI | 1100 ms |
| Fat suppr. | None |
| Dark blood | Off |
| FoV read | 256 mm |
| FoV phase | 75.0 % |
| Phase resolution | 100 % |

### Physio - PACE

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

### Inline - Common

| | |
|---|---|
| Subtract | Off |

### Inline - Common

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

### Sequence - Part 1

| | |
|---|---|
| Introduction | On |
| Dimension | 3D |
| Elliptical scanning | Off |
| Reordering | Linear |
| Asymmetric echo | Allowed |
| Flow comp. | No |
| Multi-slice mode | Single shot |
| Echo spacing | 6.9 ms |
| Bandwidth | 260 Hz/Px |

### Sequence - Part 2

| | |
|---|---|
| RF pulse type | Fast |
| Gradient mode | Normal |
| Excitation | Slab-sel. |
| RF spoiling | On |
| Incr. Gradient spoiling | On |
| Turbo factor | 256 |

### Sequence - Assistant

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

**\\USER\Hutcherson\Daniel\FoodRegfMRI Updated\ep2d_bold_p1s3_run1**

TA: 4:31 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: 3 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 | On |
| Start measurements | Single measurement |

### Routine

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| TE | 30.0 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Prescan Normalize |
| Coil elements | HEA;HEP |

### Contrast - Common

| | |
|---|---|
| TR | 2000 ms |
| TE | 30.0 ms |
| MTC | Off |
| Flip angle | 70 deg |
| Fat suppr. | Fat sat. |

### Contrast - Dynamic

| | |
|---|---|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 130 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Resolution - Common

| | |
|---|---|
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 96 |
| Phase resolution | 100 % |
| Phase partial Fourier | 7/8 |
| Interpolation | Off |

### Resolution - iPAT

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

### Resolution - iPAT

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

### Resolution - Filter Image

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

### Resolution - Filter Rawdata

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

### Geometry - Common

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

### Geometry - AutoAlign

| | |
|---|---|
| Slice group | 1 |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P4.2 H4.7 |
| L | 0.0 mm |
| P | 4.2 mm |
| H | 4.7 mm |
| Initial Rotation | 0.14 deg |
| Initial Orientation | T > C |
| T > C | -24.2 |
| > S | -0.4 |

### Geometry - Saturation

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

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

### System - Adjustments

| | |
|---|---|
| B0 Shim mode | Advanced |
| 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 | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Rotation | -1.30 deg |
| A >> P | 192 mm |
| R >> L | 192 mm |
| F >> H | 138 mm |
| Reset | Off |

### System - pTx Volumes

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

### System - Tx/Rx

| | |
|---|---|
| Frequency 1H | 123.243127 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 | 2000 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 | 40 |
| 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] | Baseline |
| Meas[12] | Baseline |
| Meas[13] | Baseline |
| Meas[14] | Baseline |
| Meas[15] | Baseline |
| Meas[16] | Baseline |
| Meas[17] | Baseline |
| Meas[18] | Baseline |
| Meas[19] | Baseline |
| Meas[20] | Baseline |
| Meas[21] | Active |

### BOLD

| | |
|---|---|
| Meas[22] | Active |
| Meas[23] | Active |
| Meas[24] | Active |
| Meas[25] | Active |
| Meas[26] | Active |
| Meas[27] | Active |
| Meas[28] | Active |
| Meas[29] | Active |
| Meas[30] | Active |
| Meas[31] | Active |
| Meas[32] | Active |
| Meas[33] | Active |
| Meas[34] | Active |
| Meas[35] | Active |
| Meas[36] | Active |
| Meas[37] | Active |
| Meas[38] | Active |
| Meas[39] | Active |
| Meas[40] | Active |
| Motion correction | Off |
| Spatial filter | Off |
| Measurements | 130 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Sequence - Part 1

| | |
|---|---|
| Introduction | On |
| Multi-slice mode | Interleaved |
| Free echo spacing | Off |
| Echo spacing | 0.58 ms |
| Bandwidth | 2368 Hz/Px |

### Sequence - Part 2

| | |
|---|---|
| EPI factor | 96 |
| RF pulse type | Normal |
| Gradient mode | Performance* |
| Excitation | Standard |

### Sequence - pTX Pulses

**\\USER\Hutcherson\Daniel\FoodRegfMRI Updated\ep2d_bold_p1s3_run2**

TA: 4:31 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: 3 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 | On |
| Start measurements | Single measurement |

### Routine

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| TE | 30.0 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Prescan Normalize |
| Coil elements | HEA;HEP |

### Contrast - Common

| | |
|---|---|
| TR | 2000 ms |
| TE | 30.0 ms |
| MTC | Off |
| Flip angle | 70 deg |
| Fat suppr. | Fat sat. |

### Contrast - Dynamic

| | |
|---|---|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 130 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Resolution - Common

| | |
|---|---|
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 96 |
| Phase resolution | 100 % |
| Phase partial Fourier | 7/8 |
| Interpolation | Off |

### Resolution - iPAT

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

### Resolution - iPAT

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

### Resolution - Filter Image

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

### Resolution - Filter Rawdata

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

### Geometry - Common

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

### Geometry - AutoAlign

| | |
|---|---|
| Slice group | 1 |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P4.2 H4.7 |
| L | 0.0 mm |
| P | 4.2 mm |
| H | 4.7 mm |
| Initial Rotation | 0.14 deg |
| Initial Orientation | T > C |
| T > C | -24.2 |
| > S | -0.4 |

### Geometry - Saturation

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

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

### System - Adjustments

| | |
|---|---|
| B0 Shim mode | Advanced |
| 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 | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Rotation | -1.30 deg |
| A >> P | 192 mm |
| R >> L | 192 mm |
| F >> H | 138 mm |
| Reset | Off |

### System - pTx Volumes

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

### System - Tx/Rx

| | |
|---|---|
| Frequency 1H | 123.243127 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 | 2000 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 | 40 |
| 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] | Baseline |
| Meas[12] | Baseline |
| Meas[13] | Baseline |
| Meas[14] | Baseline |
| Meas[15] | Baseline |
| Meas[16] | Baseline |
| Meas[17] | Baseline |
| Meas[18] | Baseline |
| Meas[19] | Baseline |
| Meas[20] | Baseline |
| Meas[21] | Active |

### BOLD

| | |
|---|---|
| Meas[22] | Active |
| Meas[23] | Active |
| Meas[24] | Active |
| Meas[25] | Active |
| Meas[26] | Active |
| Meas[27] | Active |
| Meas[28] | Active |
| Meas[29] | Active |
| Meas[30] | Active |
| Meas[31] | Active |
| Meas[32] | Active |
| Meas[33] | Active |
| Meas[34] | Active |
| Meas[35] | Active |
| Meas[36] | Active |
| Meas[37] | Active |
| Meas[38] | Active |
| Meas[39] | Active |
| Meas[40] | Active |
| Motion correction | Off |
| Spatial filter | Off |
| Measurements | 130 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Sequence - Part 1

| | |
|---|---|
| Introduction | On |
| Multi-slice mode | Interleaved |
| Free echo spacing | Off |
| Echo spacing | 0.58 ms |
| Bandwidth | 2368 Hz/Px |

### Sequence - Part 2

| | |
|---|---|
| EPI factor | 96 |
| RF pulse type | Normal |
| Gradient mode | Performance* |
| Excitation | Standard |

### Sequence - pTX Pulses

**\\USER\Hutcherson\Daniel\FoodRegfMRI Updated\ep2d_bold_p1s3_run3**

TA: 4:31 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: 3 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 | On |
| Start measurements | Single measurement |

### Routine

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| TE | 30.0 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Prescan Normalize |
| Coil elements | HEA;HEP |

### Contrast - Common

| | |
|---|---|
| TR | 2000 ms |
| TE | 30.0 ms |
| MTC | Off |
| Flip angle | 70 deg |
| Fat suppr. | Fat sat. |

### Contrast - Dynamic

| | |
|---|---|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 130 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Resolution - Common

| | |
|---|---|
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 96 |
| Phase resolution | 100 % |
| Phase partial Fourier | 7/8 |
| Interpolation | Off |

### Resolution - iPAT

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

### Resolution - iPAT

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

### Resolution - Filter Image

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

### Resolution - Filter Rawdata

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

### Geometry - Common

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

### Geometry - AutoAlign

| | |
|---|---|
| Slice group | 1 |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P4.2 H4.7 |
| L | 0.0 mm |
| P | 4.2 mm |
| H | 4.7 mm |
| Initial Rotation | 0.14 deg |
| Initial Orientation | T > C |
| T > C | -24.2 |
| > S | -0.4 |

### Geometry - Saturation

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

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

### System - Adjustments

| | |
|---|---|
| B0 Shim mode | Advanced |
| 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 | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Rotation | -1.30 deg |
| A >> P | 192 mm |
| R >> L | 192 mm |
| F >> H | 138 mm |
| Reset | Off |

### System - pTx Volumes

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

### System - Tx/Rx

| | |
|---|---|
| Frequency 1H | 123.243127 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 | 2000 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 | 40 |
| 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] | Baseline |
| Meas[12] | Baseline |
| Meas[13] | Baseline |
| Meas[14] | Baseline |
| Meas[15] | Baseline |
| Meas[16] | Baseline |
| Meas[17] | Baseline |
| Meas[18] | Baseline |
| Meas[19] | Baseline |
| Meas[20] | Baseline |
| Meas[21] | Active |

### BOLD

| | |
|---|---|
| Meas[22] | Active |
| Meas[23] | Active |
| Meas[24] | Active |
| Meas[25] | Active |
| Meas[26] | Active |
| Meas[27] | Active |
| Meas[28] | Active |
| Meas[29] | Active |
| Meas[30] | Active |
| Meas[31] | Active |
| Meas[32] | Active |
| Meas[33] | Active |
| Meas[34] | Active |
| Meas[35] | Active |
| Meas[36] | Active |
| Meas[37] | Active |
| Meas[38] | Active |
| Meas[39] | Active |
| Meas[40] | Active |
| Motion correction | Off |
| Spatial filter | Off |
| Measurements | 130 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Sequence - Part 1

| | |
|---|---|
| Introduction | On |
| Multi-slice mode | Interleaved |
| Free echo spacing | Off |
| Echo spacing | 0.58 ms |
| Bandwidth | 2368 Hz/Px |

### Sequence - Part 2

| | |
|---|---|
| EPI factor | 96 |
| RF pulse type | Normal |
| Gradient mode | Performance* |
| Excitation | Standard |

### Sequence - pTX Pulses

**\\USER\Hutcherson\Daniel\FoodRegfMRI Updated\ep2d_bold_p1s3_run4**

TA: 4:31 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: 3 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 | On |
| Start measurements | Single measurement |

### Routine

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| TE | 30.0 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Prescan Normalize |
| Coil elements | HEA;HEP |

### Contrast - Common

| | |
|---|---|
| TR | 2000 ms |
| TE | 30.0 ms |
| MTC | Off |
| Flip angle | 70 deg |
| Fat suppr. | Fat sat. |

### Contrast - Dynamic

| | |
|---|---|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 130 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Resolution - Common

| | |
|---|---|
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 96 |
| Phase resolution | 100 % |
| Phase partial Fourier | 7/8 |
| Interpolation | Off |

### Resolution - iPAT

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

### Resolution - iPAT

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

### Resolution - Filter Image

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

### Resolution - Filter Rawdata

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

### Geometry - Common

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

### Geometry - AutoAlign

| | |
|---|---|
| Slice group | 1 |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P4.2 H4.7 |
| L | 0.0 mm |
| P | 4.2 mm |
| H | 4.7 mm |
| Initial Rotation | 0.14 deg |
| Initial Orientation | T > C |
| T > C | -24.2 |
| > S | -0.4 |

### Geometry - Saturation

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

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

### System - Adjustments

| | |
|---|---|
| B0 Shim mode | Advanced |
| 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 | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Rotation | -1.30 deg |
| A >> P | 192 mm |
| R >> L | 192 mm |
| F >> H | 138 mm |
| Reset | Off |

### System - pTx Volumes

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

### System - Tx/Rx

| | |
|---|---|
| Frequency 1H | 123.243127 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 | 2000 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 | 40 |
| 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] | Baseline |
| Meas[12] | Baseline |
| Meas[13] | Baseline |
| Meas[14] | Baseline |
| Meas[15] | Baseline |
| Meas[16] | Baseline |
| Meas[17] | Baseline |
| Meas[18] | Baseline |
| Meas[19] | Baseline |
| Meas[20] | Baseline |
| Meas[21] | Active |

### BOLD

| | |
|---|---|
| Meas[22] | Active |
| Meas[23] | Active |
| Meas[24] | Active |
| Meas[25] | Active |
| Meas[26] | Active |
| Meas[27] | Active |
| Meas[28] | Active |
| Meas[29] | Active |
| Meas[30] | Active |
| Meas[31] | Active |
| Meas[32] | Active |
| Meas[33] | Active |
| Meas[34] | Active |
| Meas[35] | Active |
| Meas[36] | Active |
| Meas[37] | Active |
| Meas[38] | Active |
| Meas[39] | Active |
| Meas[40] | Active |
| Motion correction | Off |
| Spatial filter | Off |
| Measurements | 130 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Sequence - Part 1

| | |
|---|---|
| Introduction | On |
| Multi-slice mode | Interleaved |
| Free echo spacing | Off |
| Echo spacing | 0.58 ms |
| Bandwidth | 2368 Hz/Px |

### Sequence - Part 2

| | |
|---|---|
| EPI factor | 96 |
| RF pulse type | Normal |
| Gradient mode | Performance* |
| Excitation | Standard |

### Sequence - pTX Pulses

**\\USER\Hutcherson\Daniel\FoodRegfMRI Updated\ep2d_bold_p1s3_run5**

TA: 4:31 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: 3 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 | On |
| Start measurements | Single measurement |

### Routine

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| TE | 30.0 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Prescan Normalize |
| Coil elements | HEA;HEP |

### Contrast - Common

| | |
|---|---|
| TR | 2000 ms |
| TE | 30.0 ms |
| MTC | Off |
| Flip angle | 70 deg |
| Fat suppr. | Fat sat. |

### Contrast - Dynamic

| | |
|---|---|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 130 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Resolution - Common

| | |
|---|---|
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 96 |
| Phase resolution | 100 % |
| Phase partial Fourier | 7/8 |
| Interpolation | Off |

### Resolution - iPAT

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

### Resolution - iPAT

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

### Resolution - Filter Image

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

### Resolution - Filter Rawdata

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

### Geometry - Common

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

### Geometry - AutoAlign

| | |
|---|---|
| Slice group | 1 |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P4.2 H4.7 |
| L | 0.0 mm |
| P | 4.2 mm |
| H | 4.7 mm |
| Initial Rotation | 0.14 deg |
| Initial Orientation | T > C |
| T > C | -24.2 |
| > S | -0.4 |

### Geometry - Saturation

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

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

### System - Adjustments

| | |
|---|---|
| B0 Shim mode | Advanced |
| 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 | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Rotation | -1.30 deg |
| A >> P | 192 mm |
| R >> L | 192 mm |
| F >> H | 138 mm |
| Reset | Off |

### System - pTx Volumes

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

### System - Tx/Rx

| | |
|---|---|
| Frequency 1H | 123.243127 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 | 2000 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 | 40 |
| 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] | Baseline |
| Meas[12] | Baseline |
| Meas[13] | Baseline |
| Meas[14] | Baseline |
| Meas[15] | Baseline |
| Meas[16] | Baseline |
| Meas[17] | Baseline |
| Meas[18] | Baseline |
| Meas[19] | Baseline |
| Meas[20] | Baseline |
| Meas[21] | Active |

### BOLD

| | |
|---|---|
| Meas[22] | Active |
| Meas[23] | Active |
| Meas[24] | Active |
| Meas[25] | Active |
| Meas[26] | Active |
| Meas[27] | Active |
| Meas[28] | Active |
| Meas[29] | Active |
| Meas[30] | Active |
| Meas[31] | Active |
| Meas[32] | Active |
| Meas[33] | Active |
| Meas[34] | Active |
| Meas[35] | Active |
| Meas[36] | Active |
| Meas[37] | Active |
| Meas[38] | Active |
| Meas[39] | Active |
| Meas[40] | Active |
| Motion correction | Off |
| Spatial filter | Off |
| Measurements | 130 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Sequence - Part 1

| | |
|---|---|
| Introduction | On |
| Multi-slice mode | Interleaved |
| Free echo spacing | Off |
| Echo spacing | 0.58 ms |
| Bandwidth | 2368 Hz/Px |

### Sequence - Part 2

| | |
|---|---|
| EPI factor | 96 |
| RF pulse type | Normal |
| Gradient mode | Performance* |
| Excitation | Standard |

### Sequence - pTX Pulses

**\\USER\Hutcherson\Daniel\FoodRegfMRI Updated\ep2d_bold_p1s3_run6**

TA: 4:31 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: 3 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 | On |
| Start measurements | Single measurement |

### Routine

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| TE | 30.0 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Prescan Normalize |
| Coil elements | HEA;HEP |

### Contrast - Common

| | |
|---|---|
| TR | 2000 ms |
| TE | 30.0 ms |
| MTC | Off |
| Flip angle | 70 deg |
| Fat suppr. | Fat sat. |

### Contrast - Dynamic

| | |
|---|---|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 130 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Resolution - Common

| | |
|---|---|
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 96 |
| Phase resolution | 100 % |
| Phase partial Fourier | 7/8 |
| Interpolation | Off |

### Resolution - iPAT

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

### Resolution - iPAT

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

### Resolution - Filter Image

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

### Resolution - Filter Rawdata

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

### Geometry - Common

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

### Geometry - AutoAlign

| | |
|---|---|
| Slice group | 1 |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P4.2 H4.7 |
| L | 0.0 mm |
| P | 4.2 mm |
| H | 4.7 mm |
| Initial Rotation | 0.14 deg |
| Initial Orientation | T > C |
| T > C | -24.2 |
| > S | -0.4 |

### Geometry - Saturation

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

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

### System - Adjustments

| | |
|---|---|
| B0 Shim mode | Advanced |
| 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 | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Rotation | -1.30 deg |
| A >> P | 192 mm |
| R >> L | 192 mm |
| F >> H | 138 mm |
| Reset | Off |

### System - pTx Volumes

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

### System - Tx/Rx

| | |
|---|---|
| Frequency 1H | 123.243127 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 | 2000 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 | 40 |
| 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] | Baseline |
| Meas[12] | Baseline |
| Meas[13] | Baseline |
| Meas[14] | Baseline |
| Meas[15] | Baseline |
| Meas[16] | Baseline |
| Meas[17] | Baseline |
| Meas[18] | Baseline |
| Meas[19] | Baseline |
| Meas[20] | Baseline |
| Meas[21] | Active |

### BOLD

| | |
|---|---|
| Meas[22] | Active |
| Meas[23] | Active |
| Meas[24] | Active |
| Meas[25] | Active |
| Meas[26] | Active |
| Meas[27] | Active |
| Meas[28] | Active |
| Meas[29] | Active |
| Meas[30] | Active |
| Meas[31] | Active |
| Meas[32] | Active |
| Meas[33] | Active |
| Meas[34] | Active |
| Meas[35] | Active |
| Meas[36] | Active |
| Meas[37] | Active |
| Meas[38] | Active |
| Meas[39] | Active |
| Meas[40] | Active |
| Motion correction | Off |
| Spatial filter | Off |
| Measurements | 130 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Sequence - Part 1

| | |
|---|---|
| Introduction | On |
| Multi-slice mode | Interleaved |
| Free echo spacing | Off |
| Echo spacing | 0.58 ms |
| Bandwidth | 2368 Hz/Px |

### Sequence - Part 2

| | |
|---|---|
| EPI factor | 96 |
| RF pulse type | Normal |
| Gradient mode | Performance* |
| Excitation | Standard |

### Sequence - pTX Pulses

**\\USER\Hutcherson\Daniel\FoodRegfMRI Updated\ep2d_bold_p1s3_run7**

TA: 4:31 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: 3 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 | On |
| Start measurements | Single measurement |

### Routine

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| TE | 30.0 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Prescan Normalize |
| Coil elements | HEA;HEP |

### Contrast - Common

| | |
|---|---|
| TR | 2000 ms |
| TE | 30.0 ms |
| MTC | Off |
| Flip angle | 70 deg |
| Fat suppr. | Fat sat. |

### Contrast - Dynamic

| | |
|---|---|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 130 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Resolution - Common

| | |
|---|---|
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 96 |
| Phase resolution | 100 % |
| Phase partial Fourier | 7/8 |
| Interpolation | Off |

### Resolution - iPAT

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

### Resolution - iPAT

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

### Resolution - Filter Image

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

### Resolution - Filter Rawdata

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

### Geometry - Common

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

### Geometry - AutoAlign

| | |
|---|---|
| Slice group | 1 |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P4.2 H4.7 |
| L | 0.0 mm |
| P | 4.2 mm |
| H | 4.7 mm |
| Initial Rotation | 0.14 deg |
| Initial Orientation | T > C |
| T > C | -24.2 |
| > S | -0.4 |

### Geometry - Saturation

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

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

### System - Adjustments

| | |
|---|---|
| B0 Shim mode | Advanced |
| 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 | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Rotation | -1.30 deg |
| A >> P | 192 mm |
| R >> L | 192 mm |
| F >> H | 138 mm |
| Reset | Off |

### System - pTx Volumes

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

### System - Tx/Rx

| | |
|---|---|
| Frequency 1H | 123.243127 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 | 2000 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 | 40 |
| 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] | Baseline |
| Meas[12] | Baseline |
| Meas[13] | Baseline |
| Meas[14] | Baseline |
| Meas[15] | Baseline |
| Meas[16] | Baseline |
| Meas[17] | Baseline |
| Meas[18] | Baseline |
| Meas[19] | Baseline |
| Meas[20] | Baseline |
| Meas[21] | Active |

### BOLD

| | |
|---|---|
| Meas[22] | Active |
| Meas[23] | Active |
| Meas[24] | Active |
| Meas[25] | Active |
| Meas[26] | Active |
| Meas[27] | Active |
| Meas[28] | Active |
| Meas[29] | Active |
| Meas[30] | Active |
| Meas[31] | Active |
| Meas[32] | Active |
| Meas[33] | Active |
| Meas[34] | Active |
| Meas[35] | Active |
| Meas[36] | Active |
| Meas[37] | Active |
| Meas[38] | Active |
| Meas[39] | Active |
| Meas[40] | Active |
| Motion correction | Off |
| Spatial filter | Off |
| Measurements | 130 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Sequence - Part 1

| | |
|---|---|
| Introduction | On |
| Multi-slice mode | Interleaved |
| Free echo spacing | Off |
| Echo spacing | 0.55 ms |
| Bandwidth | 2368 Hz/Px |

### Sequence - Part 2

| | |
|---|---|
| EPI factor | 96 |
| RF pulse type | Normal |
| Gradient mode | Performance* |
| Excitation | Standard |

### Sequence - pTX Pulses

**\\USER\Hutcherson\Daniel\FoodRegfMRI Updated\ep2d_bold_p1s3_run8**

TA: 4:31 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: 3 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 | On |
| Start measurements | Single measurement |

### Routine

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| TE | 30.0 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Prescan Normalize |
| Coil elements | HEA;HEP |

### Contrast - Common

| | |
|---|---|
| TR | 2000 ms |
| TE | 30.0 ms |
| MTC | Off |
| Flip angle | 70 deg |
| Fat suppr. | Fat sat. |

### Contrast - Dynamic

| | |
|---|---|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 130 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Resolution - Common

| | |
|---|---|
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 96 |
| Phase resolution | 100 % |
| Phase partial Fourier | 7/8 |
| Interpolation | Off |

### Resolution - iPAT

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

### Resolution - iPAT

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

### Resolution - Filter Image

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

### Resolution - Filter Rawdata

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

### Geometry - Common

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

### Geometry - AutoAlign

| | |
|---|---|
| Slice group | 1 |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P4.2 H4.7 |
| L | 0.0 mm |
| P | 4.2 mm |
| H | 4.7 mm |
| Initial Rotation | 0.14 deg |
| Initial Orientation | T > C |
| T > C | -24.2 |
| > S | -0.4 |

### Geometry - Saturation

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

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

### System - Adjustments

| | |
|---|---|
| B0 Shim mode | Advanced |
| 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 | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Rotation | -1.30 deg |
| A >> P | 192 mm |
| R >> L | 192 mm |
| F >> H | 138 mm |
| Reset | Off |

### System - pTx Volumes

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

### System - Tx/Rx

| | |
|---|---|
| Frequency 1H | 123.243127 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 | 2000 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 | 40 |
| 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] | Baseline |
| Meas[12] | Baseline |
| Meas[13] | Baseline |
| Meas[14] | Baseline |
| Meas[15] | Baseline |
| Meas[16] | Baseline |
| Meas[17] | Baseline |
| Meas[18] | Baseline |
| Meas[19] | Baseline |
| Meas[20] | Baseline |
| Meas[21] | Active |

### BOLD

| | |
|---|---|
| Meas[22] | Active |
| Meas[23] | Active |
| Meas[24] | Active |
| Meas[25] | Active |
| Meas[26] | Active |
| Meas[27] | Active |
| Meas[28] | Active |
| Meas[29] | Active |
| Meas[30] | Active |
| Meas[31] | Active |
| Meas[32] | Active |
| Meas[33] | Active |
| Meas[34] | Active |
| Meas[35] | Active |
| Meas[36] | Active |
| Meas[37] | Active |
| Meas[38] | Active |
| Meas[39] | Active |
| Meas[40] | Active |
| Motion correction | Off |
| Spatial filter | Off |
| Measurements | 130 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Sequence - Part 1

| | |
|---|---|
| Introduction | On |
| Multi-slice mode | Interleaved |
| Free echo spacing | Off |
| Echo spacing | 0.55 ms |
| Bandwidth | 2368 Hz/Px |

### Sequence - Part 2

| | |
|---|---|
| EPI factor | 96 |
| RF pulse type | Normal |
| Gradient mode | Performance* |
| Excitation | Standard |

### Sequence - pTX Pulses

**\\USER\Hutcherson\Daniel\FoodRegfMRI Updated\ep2d_bold_p1s3_run9**

TA: 4:31 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: 3 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 | On |
| Start measurements | Single measurement |

### Routine

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| TE | 30.0 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Prescan Normalize |
| Coil elements | HEA;HEP |

### Contrast - Common

| | |
|---|---|
| TR | 2000 ms |
| TE | 30.0 ms |
| MTC | Off |
| Flip angle | 70 deg |
| Fat suppr. | Fat sat. |

### Contrast - Dynamic

| | |
|---|---|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 130 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Resolution - Common

| | |
|---|---|
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 96 |
| Phase resolution | 100 % |
| Phase partial Fourier | 7/8 |
| Interpolation | Off |

### Resolution - iPAT

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

### Resolution - iPAT

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

### Resolution - Filter Image

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

### Resolution - Filter Rawdata

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

### Geometry - Common

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

### Geometry - AutoAlign

| | |
|---|---|
| Slice group | 1 |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P4.2 H4.7 |
| L | 0.0 mm |
| P | 4.2 mm |
| H | 4.7 mm |
| Initial Rotation | 0.14 deg |
| Initial Orientation | T > C |
| T > C | -24.2 |
| > S | -0.4 |

### Geometry - Saturation

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

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

### System - Adjustments

| | |
|---|---|
| B0 Shim mode | Advanced |
| 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 | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Rotation | -1.30 deg |
| A >> P | 192 mm |
| R >> L | 192 mm |
| F >> H | 138 mm |
| Reset | Off |

### System - pTx Volumes

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

### System - Tx/Rx

| | |
|---|---|
| Frequency 1H | 123.243127 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 | 2000 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 | 40 |
| 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] | Baseline |
| Meas[12] | Baseline |
| Meas[13] | Baseline |
| Meas[14] | Baseline |
| Meas[15] | Baseline |
| Meas[16] | Baseline |
| Meas[17] | Baseline |
| Meas[18] | Baseline |
| Meas[19] | Baseline |
| Meas[20] | Baseline |
| Meas[21] | Active |

### BOLD

| | |
|---|---|
| Meas[22] | Active |
| Meas[23] | Active |
| Meas[24] | Active |
| Meas[25] | Active |
| Meas[26] | Active |
| Meas[27] | Active |
| Meas[28] | Active |
| Meas[29] | Active |
| Meas[30] | Active |
| Meas[31] | Active |
| Meas[32] | Active |
| Meas[33] | Active |
| Meas[34] | Active |
| Meas[35] | Active |
| Meas[36] | Active |
| Meas[37] | Active |
| Meas[38] | Active |
| Meas[39] | Active |
| Meas[40] | Active |
| Motion correction | Off |
| Spatial filter | Off |
| Measurements | 130 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Sequence - Part 1

| | |
|---|---|
| Introduction | On |
| Multi-slice mode | Interleaved |
| Free echo spacing | Off |
| Echo spacing | 0.55 ms |
| Bandwidth | 2368 Hz/Px |

### Sequence - Part 2

| | |
|---|---|
| EPI factor | 96 |
| RF pulse type | Normal |
| Gradient mode | Performance* |
| Excitation | Standard |

### Sequence - pTX Pulses

**\\USER\Hutcherson\Daniel\FoodRegfMRI Updated\ep2d_bold_p1s3_loc_switch**

TA: 6:31 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: 3 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 | On |
| Start measurements | Single measurement |

### Routine

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| TE | 30.0 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Prescan Normalize |
| Coil elements | HEA;HEP |

### Contrast - Common

| | |
|---|---|
| TR | 2000 ms |
| TE | 30.0 ms |
| MTC | Off |
| Flip angle | 70 deg |
| Fat suppr. | Fat sat. |

### Contrast - Dynamic

| | |
|---|---|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 190 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Resolution - Common

| | |
|---|---|
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 96 |
| Phase resolution | 100 % |
| Phase partial Fourier | 7/8 |
| Interpolation | Off |

### Resolution - iPAT

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

### Resolution - iPAT

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

### Resolution - Filter Image

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

### Resolution - Filter Rawdata

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

### Geometry - Common

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

### Geometry - AutoAlign

| | |
|---|---|
| Slice group | 1 |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P4.2 H4.7 |
| L | 0.0 mm |
| P | 4.2 mm |
| H | 4.7 mm |
| Initial Rotation | 0.14 deg |
| Initial Orientation | T > C |
| T > C | -24.2 |
| > S | -0.4 |

### Geometry - Saturation

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

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

### System - Adjustments

| | |
|---|---|
| B0 Shim mode | Advanced |
| 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 | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Rotation | -1.30 deg |
| A >> P | 192 mm |
| R >> L | 192 mm |
| F >> H | 138 mm |
| Reset | Off |

### System - pTx Volumes

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

### System - Tx/Rx

| | |
|---|---|
| Frequency 1H | 123.243127 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 | 2000 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 | 40 |
| 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] | Baseline |
| Meas[12] | Baseline |
| Meas[13] | Baseline |
| Meas[14] | Baseline |
| Meas[15] | Baseline |
| Meas[16] | Baseline |
| Meas[17] | Baseline |
| Meas[18] | Baseline |
| Meas[19] | Baseline |
| Meas[20] | Baseline |
| Meas[21] | Active |

### BOLD

| | |
|---|---|
| Meas[22] | Active |
| Meas[23] | Active |
| Meas[24] | Active |
| Meas[25] | Active |
| Meas[26] | Active |
| Meas[27] | Active |
| Meas[28] | Active |
| Meas[29] | Active |
| Meas[30] | Active |
| Meas[31] | Active |
| Meas[32] | Active |
| Meas[33] | Active |
| Meas[34] | Active |
| Meas[35] | Active |
| Meas[36] | Active |
| Meas[37] | Active |
| Meas[38] | Active |
| Meas[39] | Active |
| Meas[40] | Active |
| Motion correction | Off |
| Spatial filter | Off |
| Measurements | 190 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Sequence - Part 1

| | |
|---|---|
| Introduction | On |
| Multi-slice mode | Interleaved |
| Free echo spacing | Off |
| Echo spacing | 0.55 ms |
| Bandwidth | 2368 Hz/Px |

### Sequence - Part 2

| | |
|---|---|
| EPI factor | 96 |
| RF pulse type | Normal |
| Gradient mode | Performance* |
| Excitation | Standard |

### Sequence - pTX Pulses

**\\USER\Hutcherson\Daniel\FoodRegfMRI Updated\ep2d_bold_p1s3_loc_gng1**

TA: 3:31 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: 3 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 | On |
| Start measurements | Single measurement |

### Routine

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| TE | 30.0 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Prescan Normalize |
| Coil elements | HEA;HEP |

### Contrast - Common

| | |
|---|---|
| TR | 2000 ms |
| TE | 30.0 ms |
| MTC | Off |
| Flip angle | 70 deg |
| Fat suppr. | Fat sat. |

### Contrast - Dynamic

| | |
|---|---|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 100 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Resolution - Common

| | |
|---|---|
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 96 |
| Phase resolution | 100 % |
| Phase partial Fourier | 7/8 |
| Interpolation | Off |

### Resolution - iPAT

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

### Resolution - iPAT

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

### Resolution - Filter Image

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

### Resolution - Filter Rawdata

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

### Geometry - Common

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

### Geometry - AutoAlign

| | |
|---|---|
| Slice group | 1 |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P4.2 H4.7 |
| L | 0.0 mm |
| P | 4.2 mm |
| H | 4.7 mm |
| Initial Rotation | 0.14 deg |
| Initial Orientation | T > C |
| T > C | -24.2 |
| > S | -0.4 |

### Geometry - Saturation

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

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

### System - Adjustments

| | |
|---|---|
| B0 Shim mode | Advanced |
| 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 | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Rotation | -1.30 deg |
| A >> P | 192 mm |
| R >> L | 192 mm |
| F >> H | 138 mm |
| Reset | Off |

### System - pTx Volumes

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

### System - Tx/Rx

| | |
|---|---|
| Frequency 1H | 123.243127 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 | 2000 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 | 40 |
| 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] | Baseline |
| Meas[12] | Baseline |
| Meas[13] | Baseline |
| Meas[14] | Baseline |
| Meas[15] | Baseline |
| Meas[16] | Baseline |
| Meas[17] | Baseline |
| Meas[18] | Baseline |
| Meas[19] | Baseline |
| Meas[20] | Baseline |
| Meas[21] | Active |

### BOLD

| | |
|---|---|
| Meas[22] | Active |
| Meas[23] | Active |
| Meas[24] | Active |
| Meas[25] | Active |
| Meas[26] | Active |
| Meas[27] | Active |
| Meas[28] | Active |
| Meas[29] | Active |
| Meas[30] | Active |
| Meas[31] | Active |
| Meas[32] | Active |
| Meas[33] | Active |
| Meas[34] | Active |
| Meas[35] | Active |
| Meas[36] | Active |
| Meas[37] | Active |
| Meas[38] | Active |
| Meas[39] | Active |
| Meas[40] | Active |
| Motion correction | Off |
| Spatial filter | Off |
| Measurements | 100 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Sequence - Part 1

| | |
|---|---|
| Introduction | On |
| Multi-slice mode | Interleaved |
| Free echo spacing | Off |
| Echo spacing | 0.55 ms |
| Bandwidth | 2368 Hz/Px |

### Sequence - Part 2

| | |
|---|---|
| EPI factor | 96 |
| RF pulse type | Normal |
| Gradient mode | Performance* |
| Excitation | Standard |

### Sequence - pTX Pulses

**\\USER\Hutcherson\Daniel\FoodRegfMRI Updated\ep2d_bold_p1s3_loc_gng2**

TA: 3:31 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: 3 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 | On |
| Start measurements | Single measurement |

### Routine

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| TE | 30.0 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Prescan Normalize |
| Coil elements | HEA;HEP |

### Contrast - Common

| | |
|---|---|
| TR | 2000 ms |
| TE | 30.0 ms |
| MTC | Off |
| Flip angle | 70 deg |
| Fat suppr. | Fat sat. |

### Contrast - Dynamic

| | |
|---|---|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 100 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Resolution - Common

| | |
|---|---|
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 96 |
| Phase resolution | 100 % |
| Phase partial Fourier | 7/8 |
| Interpolation | Off |

### Resolution - iPAT

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

### Resolution - iPAT

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

### Resolution - Filter Image

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

### Resolution - Filter Rawdata

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

### Geometry - Common

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 2000 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

### Geometry - AutoAlign

| | |
|---|---|
| Slice group | 1 |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | A >> P |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P4.2 H4.7 |
| L | 0.0 mm |
| P | 4.2 mm |
| H | 4.7 mm |
| Initial Rotation | 0.14 deg |
| Initial Orientation | T > C |
| T > C | -24.2 |
| > S | -0.4 |

### Geometry - Saturation

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

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

### System - Adjustments

| | |
|---|---|
| B0 Shim mode | Advanced |
| 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 | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Rotation | -1.30 deg |
| A >> P | 192 mm |
| R >> L | 192 mm |
| F >> H | 138 mm |
| Reset | Off |

### System - pTx Volumes

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

### System - Tx/Rx

| | |
|---|---|
| Frequency 1H | 123.243127 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 | 2000 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 | 40 |
| 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] | Baseline |
| Meas[12] | Baseline |
| Meas[13] | Baseline |
| Meas[14] | Baseline |
| Meas[15] | Baseline |
| Meas[16] | Baseline |
| Meas[17] | Baseline |
| Meas[18] | Baseline |
| Meas[19] | Baseline |
| Meas[20] | Baseline |
| Meas[21] | Active |

### BOLD

| | |
|---|---|
| Meas[22] | Active |
| Meas[23] | Active |
| Meas[24] | Active |
| Meas[25] | Active |
| Meas[26] | Active |
| Meas[27] | Active |
| Meas[28] | Active |
| Meas[29] | Active |
| Meas[30] | Active |
| Meas[31] | Active |
| Meas[32] | Active |
| Meas[33] | Active |
| Meas[34] | Active |
| Meas[35] | Active |
| Meas[36] | Active |
| Meas[37] | Active |
| Meas[38] | Active |
| Meas[39] | Active |
| Meas[40] | Active |
| Motion correction | Off |
| Spatial filter | Off |
| Measurements | 100 |
| Delay in TR | 0 ms |
| Multiple series | Off |

### Sequence - Part 1

| | |
|---|---|
| Introduction | On |
| Multi-slice mode | Interleaved |
| Free echo spacing | Off |
| Echo spacing | 0.55 ms |
| Bandwidth | 2368 Hz/Px |

### Sequence - Part 2

| | |
|---|---|
| EPI factor | 96 |
| RF pulse type | Normal |
| Gradient mode | Performance* |
| Excitation | Standard |

### Sequence - pTX Pulses

**\\USER\Hutcherson\Daniel\FoodRegfMRI Updated\gre_field_mapping**

TA: 1:57 PM: FIX Voxel size: 2.0×2.0×2.0 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 | On |
| Start measurements | Single measurement |

### Routine

| | |
|---|---|
| Slice group | 1 |
| Slices | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | R >> L |
| AutoAlign | Head > Brain |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 679.0 ms |
| TE 1 | 4.92 ms |
| TE 2 | 7.38 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | None |
| Coil elements | HEA;HEP |

### Contrast - Common

| | |
|---|---|
| TR | 679.0 ms |
| TE 1 | 4.92 ms |
| TE 2 | 7.38 ms |
| MTC | Off |
| Flip angle | 60 deg |
| Fat suppr. | None |

### Contrast - Dynamic

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

### Resolution - Common

| | |
|---|---|
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 96 |
| Phase resolution | 100 % |
| Phase partial Fourier | 7/8 |
| 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 | 69 |
| Dist. factor | 0 % |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | R >> L |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 679.0 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

### Geometry - AutoAlign

| | |
|---|---|
| Slice group | 1 |
| Position | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Phase enc. dir. | R >> L |
| AutoAlign | Head > Brain |
| Initial Position | L0.0 P4.2 H4.7 |
| L | 0.0 mm |
| P | 4.2 mm |
| H | 4.7 mm |
| Initial Rotation | 90.14 deg |
| Initial Orientation | T > C |
| T > C | -24.2 |
| > S | -0.4 |

### Geometry - Saturation

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

### 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 | Head > Brain |
| Coil Select Mode | Off - AutoCoilSelect |

### System - Adjustments

| | |
|---|---|
| B0 Shim mode | Standard |
| 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 | L2.5 P7.1 H28.4 mm |
| Orientation | T > C-26.7 > S1.2 |
| Rotation | 88.70 deg |
| R >> L | 192 mm |
| A >> P | 192 mm |
| F >> H | 138 mm |
| Reset | Off |

### System - pTx Volumes

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

### System - Tx/Rx

| | |
|---|---|
| Frequency 1H | 123.243127 MHz |
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

### Sequence - Part 1

| | |
|---|---|
| Introduction | On |
| Dimension | 2D |
| Asymmetric echo | Off |
| Contrasts | 2 |
| Flow comp. | Yes |
| Multi-slice mode | Interleaved |
| Bandwidth | 599 Hz/Px |

### Sequence - Part 2

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

### Sequence - Assistant

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