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SD

VASO

Neurovascular Coupling

[rslh_ep3d_vaso_v220920_multiShot_fatSat-on](#)

\\USER\SD\VASO\Neurovascular Coupling\rslh_ep3d_vaso_v220920_multiShot_fatSat-on

TA: 0:37 PM: REF Voxel size: 0.9×0.9×0.9 mmPAT: 3 Rel. SNR: 1.00 : 26dc5a59

Properties

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

Routine

| | |
|------------------|----------------------|
| Slab group | 1 |
| Slabs | 1 |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | --- |
| Slab Scale | -10 % |
| Slices per slab | 16 |
| FoV read | 133 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.90 mm |
| TR 1 | 24.7 ms |
| TR 2 | 3405 ms |
| TE 1 | 8.97 ms |
| Averages | 1 |
| Multi-echo Shots | 1 |
| Filter | Distortion Corr.(3D) |
| Coil elements | AC |

Contrast - Common

| | |
|--------------------|-----------------|
| TR 1 | 24.7 ms |
| TR 2 | 3405 ms |
| TE 1 | 8.97 ms |
| Multi-echo spacing | 20.98 ms |
| Magn. preparation | Non-sel. HSN IR |
| TI 1 | 808.2 ms |
| TI 2 | 1178.7 ms |
| Flip angle | 33 deg |
| Fat suppr. | Fat sat. |
| Magn. Prep. Shots | 2 |

Contrast - Dynamic

| | |
|---------------------|-------------|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magn./Phase |
| Measurements | 10 |
| Pause after meas. 1 | 0.0 s |
| Pause after meas. 2 | 0.0 s |
| Pause after meas. 3 | 0.0 s |
| Pause after meas. 4 | 0.0 s |
| Pause after meas. 5 | 0.0 s |
| Pause after meas. 6 | 0.0 s |
| Pause after meas. 7 | 0.0 s |
| Pause after meas. 8 | 0.0 s |
| Pause after meas. 9 | 0.0 s |

Resolution - Common

| | |
|-----------------------|---------|
| FoV read | 133 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.90 mm |
| Base resolution | 148 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | 6/8 |
| Slice partial Fourier | Off |
| Interpolation | Off |

Resolution - iPAT

| | |
|---------------------|--------------|
| PAT mode | CAIPIRINHA |
| Acc. factor PE | 1 |
| Ref. lines PE | 24 |
| Acc. factor 3D | 3 |
| Ref. lines 3D | 16 |
| CAIPI 3D Shift | 1 |
| Reference Scan Mode | GRE/separate |
| CAIPIRINHA mode | Free |

Resolution - Filter Image

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

Resolution - Filter Rawdata

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

Geometry - Common

| | |
|------------------|-------------|
| Slab group | 1 |
| Slabs | 1 |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| Slab Scale | -10 % |
| Slices per slab | 16 |
| FoV read | 133 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.90 mm |
| TR 1 | 24.7 ms |
| TR 2 | 3405 ms |
| Multi-slice mode | Interleaved |
| Series | Ascending |
| Multi-echo Shots | 1 |

Geometry - AutoAlign

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

Geometry - AutoAlign

| | |
|---------------------|-------------|
| Initial Rotation | 0.00 deg |
| Initial Orientation | Transversal |

Geometry - Saturation

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

Geometry - Tim Planning Suite

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

System - Miscellaneous

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

System - Adjustments

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

System - Adjust Volume

| | |
|-------------|-------------|
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 133 mm |
| R >> L | 133 mm |
| F >> H | 15 mm |
| Reset | Off |

System - pTx Volumes

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

System - Tx/Rx

| | |
|---------------------|----------------|
| Frequency 1H | 297.191255 MHz |
| Correction factor | 1 |
| Gain | Low |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 200.000 V |

Sequence - Part 1

| | |
|------------------|-------------|
| Introduction | On |
| Dimension | 3D |
| Reordering | Linear |
| Asymmetric echo | Off |
| Contrasts | 1 |
| Multi-slice mode | Interleaved |

Sequence - Part 1

| | |
|--------------|------------|
| Echo spacing | 1.05 ms |
| Bandwidth | 1126 Hz/Px |

Sequence - Part 2

| | |
|---------------|-----------|
| EPI factor | 19 |
| Segmentation | 6 |
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slab-sel. |
| RF spoiling | On |
| Turbo factor | 15 |

Sequence - Special

| | |
|----------------------|------------|
| PATRef FA | 3 deg |
| RF duration | 1480 us |
| RF BWT product | 8 |
| Ernst T1 | 1200 ms |
| PATRef prep. shots | 10 |
| Volume dummy shots | 0 |
| Dummy Measurements | 0 |
| Invert PE | Off |
| Min. TE if PF | On |
| Echo Time Shift | On |
| Ramp Sampling | On |
| NORDIC | Off |
| SVDPC | On |
| Sym VASO | Off |
| Alternate RO | Off |
| Invert RO | Off |
| Water Exc. | -none- |
| External PC | per Series |
| Saturation RF | per Shot |
| EPI rise time factor | 1.10 |
| Mosaic DICOMs | On |
| Modify Ice Config | Off |
| HSN RF power scale | 2.00 |
| Inversion Delay | 650 ms |
| Relaxation Delay | 0 ms |
| Var. FA /MAGEC | 4 |

Sequence - Assistant

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