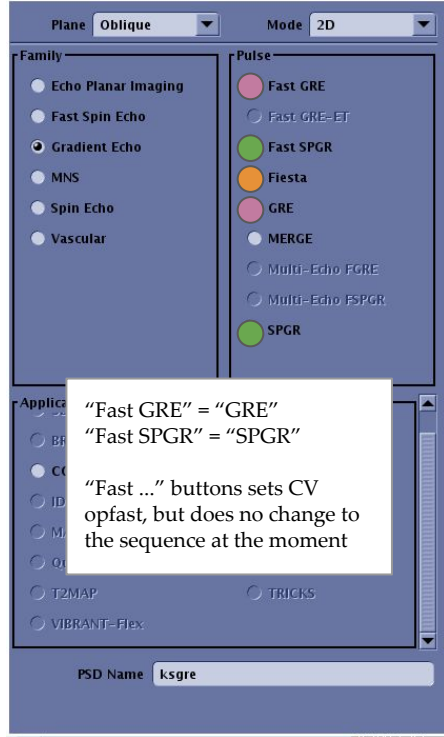


Some protocol suggestions for  
**ksgre.e**

15 Dec 2016

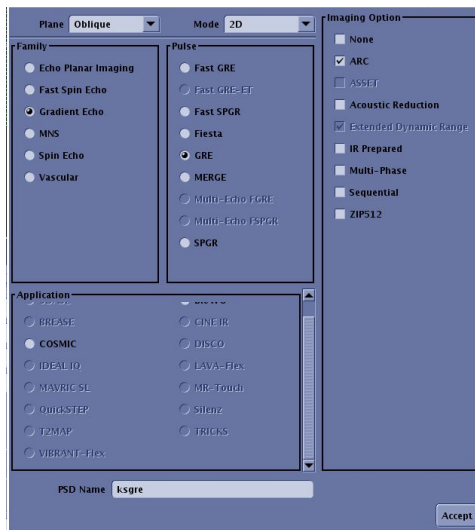
[mrphysics@neuroradkarolinska.se](mailto:mrphysics@neuroradkarolinska.se)

# ksgre - Imaging options



- Gradient spoiled Gradient echo
- RF-spoiled Gradient echo
- Balanced SSFP (bSSFP) (forces sequential scanning of slices)

# ksgre - T2\* (bleeding detection)



Increase TE for 1.5T

# ksgre - bSSFP

Plane: **Oblique** Mode: **2D**

Imaging Option

- ☐ None
- ☒ ARC
- ☐ ASSET
- ☐ Acoustic Reduction
- ☐ Cardiac Gating/Triggering
- ☒ Extended Dynamic Range
- ☐ IR Prepared
- ☐ Multi-Phase
- ☒ Sequential
- ☐ ZIP512

Family

- ☐ Echo Planar Imaging
- ☐ Fast Spin Echo
- ☒ Gradient Echo
- ☐ MNS
- ☐ Spin Echo
- ☐ Spiral
- ☐ Vascular

Pulse

- ☐ Fast GRE
- ☐ Fast GRE-ET
- ☐ Fast SPGR
- ☒ FIESTA
- ☐ GRE
- ☐ MERGE
- ☐ Multi-Echo FGRE
- ☐ Multi-Echo FSPGR
- ☐ SPGR

Application

- ☐ 3DASL
- ☐ BRAVO
- ☐ BREASE
- ☐ CINE IR
- ☐ COSMIC
- ☐ DJSGO
- ☐ IDEAL IQ
- ☐ LAVA-Flex
- ☐ MAVRIC SL
- ☐ MR-Touch
- ☐ QuickSTEP
- ☐ SWIFT
- ☐ T2MAP
- ☐ TRICKS

PSD Name: **ksgre**

Accept

**ksgre bSSFP (FIESTA)** **GRx** **0:34** Details Acceleration Advanced

Scan Plane: **Oblique** Freq. Dir: **A/P** # of TE(s) per Scan: **1** Frequency: **320**

Freq. FOV: **24.0** TR: **Minimum** TE: **Min Full** Phase: **256**

Phase FOV: **0.80** # Slices: **40** Flip Angle: **50** NEX: **1.00**

Slice Thickness: **4.0** Intensity Correction: **SCIC** Bandwidth: **125.00**

Spacing: **0.0** Intensity Filter: **None** Excitation Mode: **Select...**

3D Geometry Correction: ☐ Shim: **Auto**

Phase Correct: **Off**

Table Delta: **0.00**

Total # Slices: **40**

Max # Slices: **1**

# of Acqs: **40**

Rel. SNR(%): **43**

R/L A/P S/I

Start **0.0** **A7.7** **I79.5**

End **0.0** **P5.4** **S76.0**

Chem SAT: **None**

☐ Contrast:

AR Est: 0.73 Peak: 1.46  $B_1$  RMS: 2.38  $\mu$ T Mode: First dB/dt: First

Minimum TE: 3.6

Maximum TE: 3.6