Supplemental material to:

A.M. Peters van Ton et al.,
Neuroinflammation in cognitive decline post-cardiac surgery
(the FOCUS study): an observational study protocol

Appendix 1: MRI scan protocol – parameter settings

	Protocol Name	Sequence/Contrast parameters	Resolution(mm) Matrix Size Parallel Imaging	Duration (min:secs)
T1-weighted MPRAGE	MPRAGE	TR/TI/TE=2300/900/2.32ms Flip angle=8º	0.9x0.9x0.9mm 240x240x192 iPAT=2	5:21
T2-weighted TSE TRA	T2_tse_tra	TR/TE=3500/92 ms Flip angle = 120 º	0.4x0.4x5mm 230x173x154	2:01
Susceptibility weighted	Fl3D_SWI	TR/TE=27/20ms Flip angle = 15º	1x1x3mm 250x188x156 iPAT=2	2:43
FLAIR	T2_flair	TR/TI/TE=9000/87/2500ms Flip angle=150º	0.6x0.6x5mm 230x173x143	4:32
Field map	Gre_field	TR/TE1/TE2=400/5.19/7.65 Flip angle= 60º	3.8x3.8x3mm 240x240x135	0:54
DTI	MDDW64	TR/TE=6900/67 Directions=108 b-value=1000 s/mm^2	2x2x2mm 240x240x128 iPAT=2	12:47
fMRI	Ep2d	TR/TE=2390/30ms Flip angle= 90º	3.5x3.5x3.5 224x224x144	6:06
TOF MR angiogram	ToF	TR/TE=24/3.93ms Flip angle= 15º	0.5x0.5x0.6mm 200x150x154 iPAT=2	11:10
T1-weighted SPACE *pre-contrast & post-contrast*	Tse3d_spc	TR/TE=750/20ms	0.5x0.5x0.9mm 231x231x51 iPAT=2	2x 3:49