

APPENDIX A – MRI acquisition parameters

# Subjects	1			1			1		1	
TR (ms)	T1w	T2w	DWI	T1w	T2w	T1w	T2w	T1w	T2w	
TE (ms)	1820	6200	5200	1820	5270	1820	6200	1820	6200	
Time (min)	4:38	124	73	4:38	124	124	124	4:38	119	
Acq matrix	5:51	5:32	6:30	N/A	N/A	N/A	N/A	5:51	5:32	
Thickness (mm)	192x256	128x256	128x128	144x256	104x256	192x256	128x256	192x256	128x256	
# Slices	1	1.95	2	1	1.95	1	1.95	1	1.95	
Spacing (mm)	144	56	45	144	70	192	58	192	56	
FOV (mm^2)	0.9x0.9	1.25x1.25	2x2	1x1	1.25x1.25	1x1	1.25x1.25	0.9x0.9	1.25x1.25	
Coil	173x230	160x320	256x256	144x256	130x320	192x256	160x320	173x230	160x320	
Flip angle (°)	N/A			Head3T			N/A		Head3T	
Sequence	7	150	N/A	7	150	7	150	7	150	
Scanner	mprage	TPE	N/A	mp_rage_fast	TSE	mp_rage	TSE	mp_rage	N/A	
Manufacturer	Allegra			Allegra			Allegra		Allegra	
bvalue (s/mm^2)	Siemens			Siemens			Siemens		Siemens	
# Directions	1000									
# b0	30									
Location	5									
Biomedical Image Research Center (BRIC) at the University of North Carolina (UNC), USA										
Subjects	4			2			2			
TR (ms)	T1w	T2w	DWI (#3)	T1w	T2w	DWI	T1w	T2w		
TE (ms)	1820	3200	7200	1820	32000	8900	9.4	6293		
Time (min)	3.75	406	83	4:38	255	83	4.6	120		
Acq matrix	N/A	N/A	N/A	6:10	4:10	N/A	3:27	5:24		
Thickness (mm)	144x256	192x256	96x128	224x256	256x256	112x128	192x152	336x234		
# Slices	1	1	2	1	1	2	2	2		
Spacing (mm)	144	160	62	160	160	75	50	50		
FOV (mm^2)	1x1	1x1	2x2	1x1	1x1	2x2	0.94x0.94	0.54x0.61		
Coil	144x256	192x256	192x256	224x256	256x256	224x256	180x180	180x180		
Flip angle (°)	HEA;HEP			N/A			Philips SENSE head			
Sequence	7	N/A	90	7	N/A	N/A	N/A			
Scanner	mp_rage_p2	TSE	iff_42dir_	mp-rage	N/A	N/A	TFE	TSE		
Manufacturer	Tim Trio 3T			Tim Trio 3T			3T			
bvalue (s/mm^2)	Siemens			Siemens			Philips			
# Directions	1000									
# b0	42									
Location	7									
BRIC at UNC, USA			University of Irvine (UCI), USA			University Medical Center Utrecht, The Netherlands				