

Philips 3T Achieva with 32 Channel Head Coil

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Parameters	Survey	EPI_Bol d_NR1	T1W_3 D	Alpha	T1EST	Baselin eCBF	T2W_3 D FLAIR	T
pulse sequence	TFE	EPI	3D TFE	EPI	IR - EPI	ASL EPI	TSE	
echo type	Gradient Echo	Gradient Echo	Gradient Echo	Gradient Echo	Gradient Echo	Gradient Echo	Spin Echo	G
Total Scan Time	32 secs	8 secs	6 min 20 secs	4 min 48 secs	20 secs	4 min 08 secs	7 min 45 secs	2
TE (msec)	4.6	35	3.7	6.9	23	11	293/125 effective	
TR (msec)	11	2000	8/2800	1000	5000	4000	4800	
TI (prep time)			939		100, 200, 300, 400, 500, 750, 1000, 1500, 2000, 3000		1650	
TFE Shots	2		1	14	1	1	1	
TFE Shot interval (msec) / Acq	1161		1850 / 1802.7				2.9	
flip angle		90	8	90		90	90 ?	
NEX	1	1	1	1	1	1	1	
Fat Suppression		No	No	No	SPIR	No	SPIR/St rong	
Bandwidth (Hz)		3313		1211.4	2944.5	3080.7	1168.5	4
GEOMETRY								
Acquisition Matrix		64x64	192x18 0	132x12 6	64x64	64x64	192x18 0	
slice orientation		Transve rse	Sagittal	Transve rse	Transve rse	Transve rse	Sagittal	T
FOV (RLxAPxFH)		240x24 0x120	180x18 0x192	200x20 0x3	120x24 0x240	240x24 0x120	180x18 0x192	2
SENSE		Yes	Yes	No	Yes	Yes	Yes	

P-Reduction (AP)		2	1		2	1	1.5
Pos Factor			1		1	1	1
S-Reduction (RL)			2				2
Phase Encoding Direction		AP	AP	AP	AP	AP	AP
Reconstructed matrix		64x64	192x180	224x224	64x64	64x64	192x180
Acq Voxel (mm)		3.75x3.75x5	1x1x1	1.52x1.59x3	3.75x3.75x5	3.75x3.75x5	1x1x1
Rec Voxel (mm)		3.75x3.75x5	1x1x1	0.89x0.89x3	3.75x3.75x5	3.75x3.75x5	1x1x1
slice thickness		5	1	3	5		1
slice gap		0		0	0		3D
# shots				14			1
# echoes per shot				9			182
# dynamic scans				10		30	
#slices		24		1	24	24	180
#Stacks		1		1	1	1	1
EPI factor		35				35	
Shim		PB Volume	PB Volume	PB Volume	PB Volume	PB Volume	PB Volume
DTI							
# directions							
# b=0 images							
Max B-factor							
ASL							
ASL				pCASL		pCASL	
Label Type				parallel slab		parallel slab	
Label Gap (mm)				5		60	
Save/Restore Labeling plan				Save		Restore	
Label Duration (ms)				500		2000	

Post Label Delay (ms)				5		1400		
pCASL B1 Amplitude (microT)						1		
pCASL interval (ms)				1.5		1.5		
pCASL flip angle duration (ms)				0.5		0.5		
pCASL gradient strength (mT/m)				6		6		
pCASL mean gradient (mT/m)				1		1		

