


# Philips MRI Protocol

## Comment

### Software Stream

5.1.7.1


 Quarles\_StandardBrainTumorProtocol (6) 00:36:44

 Survey 00:31.5

 Ref\_HCspoiled 00:24.1

 T1W/3D/TFE 06:25.8




 T2W\_FLAIR 08:48.0

 DWI\_3dir\_10bval 05:15.0

 T2W-TSE 03:36.0

 DSC\_DualEcho\_AXIAL\_3T 05:18.0

 T1W/3D/TFE 06:25.8

 Hospital (2) |  Quarles\_StandardBrainTumorProtocol (8) 36:44 |  Survey 00:31.5

INFO PAGE		GEOMETRY		CONTRAST	
Total scan duration	00:31.5	Nucleus	H1	Scan type	Imaging
Rel. SNR	1	Multi coil	no	Scan mode	M2D
Act. TR/TE (ms)	11 / 4.6	Uniformity	Classic	technique	FFE
ACQ matrix M x P	256 x 128	FOV FH (mm)	250	Contrast enhancement	T1
ACQ voxel MPS (mm)	0.98 / 1.95 / 10.0	AP (mm)	250	Acquisition mode	cartesian
REC voxel MPS (mm)	0.98 / 0.98 / 10.0	stack RL (mm)	50	Fast Imaging mode	TFE
Scan percentage (%)	50	Voxel size FH (mm)	0.9765625	shot mode	multishot
TFE shots	2	AP (mm)	1.953125	TFE factor	64
TFE dur. shot / acq (ms)	1166.1 / 712.5	Slice thickness (mm)	10	startup echoes	default
TFE shot interval (ms)	1166.092	Recon voxel size (mm)	0.9765625	shot interval	shortest
Min. TI delay	402.4763	Fold-over suppression	no	profile order	linear
Act. WFS (pix) / BW (Hz)	3.496 / 124.3	Reconstruction matrix	256	Echoes	1
Min. WFS (pix) / Max. BW (Hz)	1.049 / 414.3	SENSE	no	partial echo	yes
Min. TR/TE (ms)	11 / 2.4	k-t BLAST	no	shifted echo	no
SAR / local torso	< 18 %	Stacks	3	TE (ms)	in-phase
Whole body / level	< 0.2 W/ka / normal	current type	A parallel		4.603304
		slices	3		

SED	0.0 kJ/kg
B1+rms	0.69 uT
Max B1+rms	0.69 uT
PNS / level	16 % / normal
dB/dt	7.9 T/s
Sound Pressure Level (dB)	1.291262

**MOTION**

Cardiac synchronization	no
Heart rate > 250 bpm	no
Respiratory compensation	no
Navigator respiratory comp	no
Flow compensation	no
fMRI echo stabilisation	no
Motion smoothing	no
NSA	1

**DYN/ANG**

Angio / Contrast enh.	no
Quantitative flow	no
Manual start	no
Dynamic study	no
Arterial Spin labeling	no

**POST/PROC**

Preparation phases	auto
Interactive F0	no
B0 field map	no
B1 field map	no
MIP/MPR	no
SWIp	no
Images	M, no, no, no
Autoview image	M

slice gap	user defined
gap (mm)	10
slice orientation	sagittal
fold-over direction	AP
fat shift direction	F
Slice scan order	default
Stack scan order	ascend
Move table per stack	no
Stack alignment	no
Stack display order	no
PlanAlign	no
REST slabs	0
Catheter tracking	no
Interactive positioning	no
External control	no
Allow table movement	no

**OFFC/ANG**

Stacks	3
current	A
Stack Offc. AP (P=+mm)	-20
RL (L=+mm)	0
FH (H=+mm)	20
Ang. AP (deg)	0
RL (deg)	0
FH (deg)	0
Free rotatable	no




Flip angle (deg)	15
TR	shortest
Halfscan	no
Water-fat shift (pixels)	user defined
Shim	3.5
mDIXON	default
Fat suppression	no
Water suppression	no
TFE prepulse slice selection	invert
shared	no
delay (ms)	user defined
PSIR	800
MTC	no
T2prep	no
Research prepulse	no
Diffusion mode	no
Multi-transmit	no
SAR mode	high
B1 mode	default
SAR Patient data	auto
PNS mode	low
Gradient mode	regular
SofTone mode	no

Hospital (2) | Quarles\_StandardBrainTumorProtocol (8) 36:44 |  
 Ref\_HCspoiled 00:24.1

INFO PAGE	
Total scan duration	00:24.1
Rel. SNR	1
Act. TR/TE (ms)	4.0 / 0.78
ACQ matrix M x P	96 x 59
ACQ voxel MPS (mm)	4.69 / 5.98 / 6.00
REC voxel MPS (mm)	4.69 / 4.69 / 3.00
Scan percentage (%)	78.19549
Packages	1
Act. WFS (pix) / BW (Hz)	0.210 / 2071.3
Min. WFS (pix) / Max. BW (Hz)	0.210 / 2071.3
SAR / local torso	< 3 %
Whole body / level	0.0 W/kg / normal
SED	0.0 kJ/kg
B1+rms	0.27 uT
Max B1+rms	0.27 uT
PNS / level	31 % /

GEOMETRY	
Stack Offc. AP (P=+mm)	0
RL (L=+mm)	0
FH (H=+mm)	18.81271
Multi-transmit	no
Respiratory compensation	no
NSA	1
Manual start	no
OFFC/ANG	
Stack Offc. AP (P=+mm)	0
RL (L=+mm)	0
FH (H=+mm)	18.81271
Multi-transmit	no
Respiratory compensation	no
NSA	1
Manual start	no

CONTRAST	
Stack Offc. AP (P=+mm)	0
RL (L=+mm)	0
FH (H=+mm)	18.81271
Multi-transmit	no
Respiratory compensation	no
NSA	1
Manual start	no

 Hospital (2) |  Quarles\_StandardBrainTumorProtocol (8) 36:44 |  T1W/3D/  
TFE 06:25.8

**INFO PAGE**

**SEQUENCE**

INFO PAGE		GEOMETRY		CONTRAST	
Total scan duration	06:25.8	Nucleus	H1	Scan type	Imaging
Rel. SNR	1	Uniformity	Body-tuned	Scan mode	3D
Act. TR/TE (ms)	7.9 / 3.7	FOV FH (mm)	256	technique	FFE
ACQ matrix M x P	256 x 256	AP (mm)	256	Contrast enhancement	T1
ACQ voxel MPS (mm)	1.00 / 1.00 / 1.00	RL (mm)	170	Acquisition mode	cartesian
REC voxel MPS (mm)	1.00 / 1.00 / 1.00	Voxel size FH (mm)	1	Fast Imaging mode	TFE
Scan percentage (%)	100	AP (mm)	1	3D non-selective	no
TFE factor	218	RL (mm)	1	shot mode	single-shot
TFE dur. shot / acq (ms)	1789.2 / 1727.7	Recon voxel size (mm)	1	TFE startup echoes	default
Min. TI delay	916.4811	Fold-over suppression	no	shot interval	user defined
Act. WFS (pix) / BW (Hz)	2.002 / 217.0	Slice oversampling	default	(ms)	3000
Min. WFS (pix) / Max. BW (Hz)	0.559 / 776.8	RF select. FOS	no	profile	linear
SAR / local torso	< 11 %	Reconstruction matrix	256	order	
Whole body / level	< 0.1 W/kg / normal	SENSE	yes	turbo	Z
SED	< 0.1 kJ/kg	P reduction (AP)	2	direction	
B1+rms	0.54 uT	S reduction (RL)	1	Echoes	1
Max B1+rms	0.55 uT	k-t BLAST	no	partial echo	no
PNS / level	43 % / normal	Overcontiguous slices	no	shifted echo	no
dB/dt	30.5 T/s	Stacks	1	TE	shortest
Sound Pressure Level (dB)	9.235933	slices	170	Flip angle (deg)	10
<b>MOTION</b>		slice orientation	sagittal	TR	shortest
Cardiac synchronization	no	fold-over direction	AP	Halfscan	no
Heart rate > 250 bpm	no	fat shift direction	F	Water-fat shift	user defined
Respiratory compensation	no	Multi-chunk	no	(pixels)	2
Navigator respiratory comp	no	PlanAlign	no	Shim	auto
Flow compensation	no	REST slabs	1	mDIXON	no
fMRI echo stabilisation	no	type	free	Fat suppression	no
		orientation	transverse	Water suppression	no
		thickness (mm)	60	TFE prepulse	invert
		power	1	slice selection	no
				delay	shortest
				PSIR	no

Motion smoothing	no
NSA	1
<b>DYN/ANG</b>	
Angio / Contrast enh.	no
Quantitative flow	no
CENTRA	no
Manual start	no
Dynamic study	no
Arterial Spin labeling	no
<b>POST/PROC</b>	
Preparation phases	auto
Interactive F0	no
B0 field map	no
B1 field map	no
MIP/MPR	no
SWIp	no
Images	M, no, no, no
Autoview image	M
Calculated images	no, no, no, no
Reference tissue	Grey matter
Recon compression	No
Preset window contrast	soft
Reconstruction mode	real time
Save raw data	no
Hardcopy protocol	no
Image filter	system default
Geometry correction	default
Elliptical k-space shutter	default

Catheter tracking	no
Interactive positioning	no
External control	no
Allow table movement	no
<b>OFFC/ANG</b>	
Stacks	1
Stack Offc. AP (P=+mm)	5.30303
RL (L=+mm)	-0.759878 6
FH (H=+mm)	3.778668
Ang. AP (deg)	0
RL (deg)	0
FH (deg)	0
Free rotatable	no
Rest Offc. AP (P=+mm)	0
RL (L=+mm)	0
FH (H=+mm)	-140
Ang. AP (deg)	0
RL (deg)	0
FH (deg)	0

MTC	no
T2prep	no
Research prepulse	no
Diffusion mode	no
Multi-transmit	no
SAR mode	high
B1 mode	default
SAR Patient data	auto
PNS mode	low
Gradient mode	default
SofTone mode	yes

INFO PAGE		GEOMETRY		CONTRAST	
Total scan duration	08:48.0	Nucleus	H1	Scan type	Imaging
Rel. SNR	1	Uniformity	CLEAR	Scan mode	MS
Act. TR/TI (ms)	11000 / 2800	FOV AP (mm)	220	technique	IR
Act. TE (ms)	125	RL (mm)	220	Acquisition mode	cartesian
ACQ matrix M x P	352 x 270	FH (mm)	210	Fast Imaging mode	TSE
ACQ voxel MPS (mm)	0.63 / 0.81 / 3.00	Voxel size AP (mm)	0.625	shot mode	multishot
REC voxel MPS (mm)	0.43 / 0.43 / 3.00	RL (mm)	0.7801418	TSE factor	27
Scan percentage (%)	76.70454	Slice thickness (mm)	3	startup echoes	0
Packages	8	Recon voxel size (mm)	0.4296875	profile	linear
Min. slice gap (mm)	3	Fold-over suppression	no	order	
Optimal slices	18	Reconstruction matrix	512	DRIVE	no
Max. slices	72	SENSE	yes	ultrashort shift	yes
WFS (pix) / BW (Hz)	1.835 / 236.7	P reduction (RL)	2	fid reduction	default
TSE es / shot (ms)	8.9 / 241	k-t BLAST	no	Echoes	1
TEeff / TEequiv (ms)	125 / 112	Stacks	1	partial echo	no
Min. TR/TI (ms)	10711 / 50	type	parallel	TE (ms)	user defined
SAR / local torso	< 67 %	slices	70		125
Whole body / level	< 0.9 W/kg / normal	slice gap	user defined	Refocusing control	yes
SED	< 0.5 kJ/kg	gap (mm)	0	angle (deg)	120
B1+rms	1.32 uT	slice orientation	transverse	echo enhancement	no
Max B1+rms	1.50 uT	fold-over direction	RL	bright fat reduction	no
PNS / level	27 % / normal	fat shift direction	P	TR (ms)	user defined
dB/dt	13.6 T/s	Minimum number of packages	4		11000
Sound Pressure Level (dB)	1.959493	Slice scan order	default	Halfscan	no
<b>MOTION</b>		PlanAlign	no	Water-fat shift	maximum
Cardiac synchronization	no	REST slabs	1	IR delay (ms)	2800
		type	parallel	acquire during delay	yes
		thickness	60		

Heart rate > 250 bpm	no	(mm)		dual	no
Respiratory compensation	no	position	feet	power	1
Navigator respiratory comp	no	gap	default	Shim	default
Flow compensation	no	power	1	mDIXON	no
Motion smoothing	no	Catheter tracking	no	Fat suppression	no
NSA	1	Interactive positioning	no	Grad Rev Fat suppression	no
<b>DYN/ANG</b>		External control	no	Water suppression	no
Manual start	no	Allow table movement	no	MTC	no
Dynamic study	no	<b>OFFC/ANG</b>		T2prep	no
Arterial Spin labeling	no	Stacks	1	Research prepulse	no
<b>POST/PROC</b>		Stack Offc. AP (P=+mm)	0	Zoom imaging	no
Preparation phases	auto	RL (L=+mm)	0	Diffusion mode	no
Interactive F0	no	FH (H=+mm)	0	Multi-transmit	no
B0 field map	no	Ang. AP (deg)	0	SAR mode	high
B1 field map	no	RL (deg)	0	B1 mode	default
MIP/MPR	no	FH (deg)	0	SAR Patient data	auto
Images	M, no, no, no	Free rotatable	no	PNS mode	low
Autoview image	M			Gradient mode	default
Reference tissue	Grey matter			SofTone mode	user defined
Recon compression	No			factor	4
Preset window contrast	soft				
Reconstruction mode	real time				
Save raw data	no				
Hardcopy protocol	no				
Image filter	system default				
Geometry correction	default				



INFO PAGE		GEOMETRY		CONTRAST	
Total scan duration	05:00.0	Multi-transmit	no	Scan type	Imaging
Rel. signal level (%)	100	Nucleus	H1	Scan mode	MS
Act. TR (ms)	5000	Coil selection	SENSE-Head-8	technique	SE
Act. TE (ms)	61	element selection	SENSE	Modified SE	no
ACQ matrix M x P	120 x 118	connection	d	Acquisition mode	cartesian
ACQ voxel MPS (mm)	2.00 / 2.00 / 3.00	Dual coil	no	Fast Imaging mode	EPI
REC voxel MPS (mm)	1.25 / 1.25 / 3.00	CLEAR	yes	shot mode	single-shot
Scan percentage (%)	98.3	body tuned	no	Echoes	1
Packages	1	FOV RL (mm)	240	partial echo	no
Min. slice gap (mm)	0	AP (mm)	240	TE	shortest
Diffusion gradient timing DELTA	29.5 / 12.2	FH (mm)	90	Flip angle (deg)	90
EPI factor	59	Voxel size RL (mm)	2	TR	user defined
WFS (pix) / BW (Hz)	18.243 / 23.8	AP (mm)	2	(ms)	5000
BW in EPI freq. dir. (Hz)	2972.8	Slice thickness (mm)	3	Halfscan	yes
Min. TR (ms)	2928	Recon voxel size (mm)	1.25	factor	0.7659575
SAR / head	< 46 %	Small FOV imaging	no	Water-fat shift	minimum
Whole body / level	< 0.6 W/kg / normal	Fold-over suppression	no	Shim	auto
B1 rms	1.10 uT	Reconstruction matrix	192	mDIXON	no
PNS / level	91 % / 1st level	SENSE	yes	Fat suppression	SPIR
Sound Pressure Level (dB)	18.77481	P reduction (AP)	2	strength	strong
<b>MOTION</b>		P os factor	2	frequency offset	default
Cardiac synchronization	no	Stacks	1	Water suppression	no
Heart rate > 250 bpm	no	type	parallel	Grad. rev. offres. supp.	yes
Respiratory compensation	no	slices	30	BB pulse	no
Navigator respiratory comp	no	slice gap	user defined	MTC	no
Flow	no	gap (mm)	0	Research prepulse	no
		slice orientation	transverse	Diffusion mode	DTI
		fold-over direction	AP	sequence	SE
		fat shift direction	P	gradient duration	maximum
		Minimum	1	gradient overplus	no

Flow compensation	no	Minimum number of packages	1	directional resolution	opt 6	
Temporal slice spacing	default	Slice scan order	default	nr of directions	3	
NSA	2	PlanAlign	no	user defined dirs	0, 0, 1, 0, 1, 0, 1, 0,	
SMART	no	REST slabs	0		0, 0,	
<b>DYN/ANG</b>		Catheter tracking	no		0, 0,	
Manual start	no	Interactive positioning	no		0, 0,	
Dynamic study	no	External control	no		0, 0,	
dyn stabilization	no	Allow table movement	no		0, 0,	
Arterial Spin labeling	no	<b>OFFC/ANG</b>			nr of b-factors	3
<b>POST/PROC</b>		Stacks	1		b-factor order	user defined
Preparation phases	auto	Stack Offc. AP (P=+mm)	37.758		b-factors	0, 500, 1000, 0
Interactive F0	no	RL (L=+mm)	2.070393		average high b	yes
SmartPlan survey	no	FH (H=+mm)	-1.805847	SAR mode	high	
B0 field map	no	Ang. AP (deg)	0	B1 mode	default	
B1 field map	no	RL (deg)	0	SAR Patient data	auto	
MIP/MPR	no	FH (deg)	0	PNS mode	high	
Images	M, no, no, no			Gradient mode	enhanced	
Autoview image	M			SofTone mode	no	
Calculated images	no, no, no, no					
Reference tissue	White matter					
EPI 2D phase correction	no					
Preset window contrast	soft					
Reconstruction mode	immediate					
Save raw data	no					
Hardcopy protocol	no					
Ring filtering	default					
Geometry correction	default					

<b>INFO PAGE</b>		<b>GEOMETRY</b>		<b>CONTRAST</b>	
Total scan	03:36.0	Nucleus	H1		

duration		Nucleus	111	Scan type	Imaging
Rel. SNR	1	Uniformity	CLEAR	Scan mode	MS
Act. TR (ms)	3000	FOV AP (mm)	230	technique	SE
Act. TE (ms)	80	RL (mm)	184	Modified SE	no
ACQ matrix M x P	400 x 255	FH (mm)	72	Acquisition mode	cartesian
ACQ voxel MPS (mm)	0.57 / 0.72 / 3.00	Voxel size AP (mm)	0.575	Fast Imaging mode	TSE
REC voxel MPS (mm)	0.45 / 0.45 / 3.00	RL (mm)	0.72	shot mode	multi-shot
Scan percentage (%)	79.7	Slice thickness (mm)	3	TSE factor	15
WFS (pix) / BW (Hz)	1.975 / 220.0	Recon voxel size (mm)	0.449	startup echoes	0
TSE factor	57	Small FOV imaging	no	profile order	linear
TSE es / shot (ms)	12.7 / 737	Fold-over suppression	no	DRIVE	no
TEeff / TEequiv (ms)	200 / 177	Reconstruction matrix	512	ultrashort	no
Min. TR (ms)	1577	SENSE	no	fid reduction	default
SAR / local torso	< 79 %	k-t BLAST	no	Echoes	1
Whole body / level	< 1.0 W/kg / normal	Stacks	1	partial echo	no
SED	< 0.4 kJ/kg	type	parallel	TE	user defined
B1+rms	1.44 uT	slices	24	(ms)	200
Max B1+rms	1.44 uT	slice gap	user defined	Flip angle (deg)	90
PNS / level	54 % / normal	gap	0	Refocusing control	yes
dB/dt	54.3 T/s	(mm)		angle (deg)	120
Sound Pressure Level (dB)	9.221807	slice orientation	transverse	echo enhancement	no
<b>MOTION</b>		fold-over direction	RL	bright fat reduction	no
Cardiac synchronization	no	fat shift direction	P	TR	user defined
Heart rate > 250 bpm	no	Minimum number of packages	1	(ms)	3000
Respiratory compensation	no	Slice scan order	default	Halfscan	no
Navigator respiratory comp	no	PlanAlign	no	Water-fat shift	maximum
Flow compensation	no	REST slabs	1	Shim	default
Temporal slice spacing	default	type	parallel	mDIXON	no
		thickness (mm)	60	Fat suppression	no
		position	feet	Grad Rev Fat suppression	no
		gap	default	Water	no
		power	1		

Motion smoothing	no	power	±	suppression	
NSA	1	Catheter tracking	no	BB pulse	no
<b>DYN/ANG</b>		Interactive positioning	no	MTC	no
Manual start	no	Allow table movement	no	T2prep	no
Dynamic study	no	<b>OFFC/ANG</b>		Research prepulse	no
Arterial Spin labeling	no	Stacks	1	Zoom imaging	no
<b>POST/PROC</b>		Stack Offc. AP (P=+mm)	0.2691231	Diffusion mode	no
Preparation phases	auto	RL (L=+mm)	3.153291	Elastography mode	no
Interactive F0	no	FH (H=+mm)	-16.85857	Multi-transmit	no
B0 field map	no	Ang. AP (deg)	-4.168019	SAR mode	high
B1 field map	no	RL (deg)	-0.07888108	B1 mode	default
MIP/MPR	no	FH (deg)	-1.085168	SAR Patient data	auto
Images	M, no, no, no	Free rotatable	no	PNS mode	low
Autoview image	M			Gradient mode	default
Calculated images	no, no, no, no			SofTone mode	user defined
Reference tissue	Grey matter			factor	4
Recon compression	No				
Preset window contrast	soft				
Reconstruction mode	real time				
Save raw data	no				
Hardcopy protocol	no				
Image filter	system default				
Geometry correction	default				

INFO PAGE		GEOMETRY		CONTRAST	
Total scan duration	05:18.0	Multi-transmit	no	Scan type	Imaging
Rel. signal level (%)	100	Nucleus	H1	Scan mode	MS
Act. TR/TE1/TE2 (ms)	1500 / 8.5 / 36.8	Coil selection	SENSE-Head-8	technique	FFE
Dyn. scan time	00:01.5	element selection	SENSE	Contrast enhancement	no
Time to k0	0.750	connection	d	Acquisition mode	cartesian
ACQ matrix M x P	80 x 80	Dual coil	no	Fast Imaging mode	EPI
ACQ voxel MPS (mm)	3.00 / 3.00 / 5.00	CLEAR	yes	shot mode	single-shot
REC voxel MPS (mm)	2.50 / 2.50 / 5.00	body tuned	no	Echoes	2
Scan percentage (%)	100	FOV RL (mm)	240	partial echo	no
Packages	1	AP (mm)	240	shifted echo	no
Min. slice gap (mm)	0	FH (mm)	105	TE first	shortest
EPI factor	45	Voxel size RL (mm)	3	second	shortest
Act. WFS (pix) / BW (Hz)	11.835 / 36.7	AP (mm)	3	Flip angle (deg)	90
BW in EPI freq. dir. (Hz)	2673.8	Slice thickness (mm)	5	TR	user defined
Min. WFS (pix) / Max. BW (Hz)	11.832 / 36.7	Recon voxel size (mm)	2.5		1500
Min. TR/TE1/TE2 (ms)	1303 / 8.4 / 37	Fold-over suppression	no	Halfscan	yes
SAR / head	< 46 %	Reconstruction matrix	96	factor	0.6976744
Whole body / level	< 0.6 W/kg / normal	SENSE	yes	Water-fat shift	minimum
B1 rms	1.10 uT	P reduction (AP)	1.8	Shim	auto
PNS / level	64 % / normal	P os factor	1	mDIXON	no
Sound Pressure Level (dB)	19.82358	Stacks	1	Fat suppression	SPIR
<b>MOTION</b>		type	parallel	strength	strong
Cardiac synchronization	no	slices	21	frequency	default
Heart rate > 250 bpm	no	slice gap	user defined	offset	
		gap (mm)	0	Water suppression	no
		slice orientation	transverse	MTC	no
		fold-over direction	AP	Research prepulse	no
		fat shift direction	P	Diffusion mode	no
				SAR mode	high
				B1 mode	default

Respiratory compensation	no	Minimum number of packages	1	SAR Patient data	auto
Navigator respiratory comp	no	Slice scan order	ascend	PNS mode	moderate
Flow compensation	no	PlanAlign	no	Gradient mode	default
Temporal slice spacing	default	REST slabs	0	SofTone mode	no
fMRI echo stabilisation	no	Catheter tracking	no	(ms)	
NSA	1	Interactive positioning	no		
<b>DYN/ANG</b>		External control	no		
Angio / Contrast enh.	no	Allow table movement	no		
Quantitative flow	no	<b>OFFC/ANG</b>			
Manual start	yes	Stacks	1		
Dynamic study	individual	Stack Offc. AP (P=+mm)	37.758		
dyn scans	200	RL (L=+mm)	2.070393		
recon multiplier	1	FH (H=+mm)	-1.805847		
dyn scan times	shortest	Ang. AP (deg)	0		
FOV time mode	default	RL (deg)	0		
dummy scans	10	FH (deg)	0		
immediate subtraction	no				
fast next scan	no				
synch. ext. device	no				
dyn stabilization	no				
prospect. motion corr.	no				
Keyhole	no				
Arterial Spin labeling	no				
<b>POST/PROC</b>					
Preparation phases	full				
Interactive F0	no				
SmartPlan survey	no				

INFO PAGE		GEOMETRY		CONTRAST	
Total scan duration	06:25.8	Nucleus	H1	Scan type	Imaging
Rel. SNR	1	Uniformity	Body-tuned	Scan mode	3D
Act. TR/TE (ms)	7.9 / 3.7	FOV FH (mm)	256	technique	FFE
ACQ matrix M x P	256 x 256	AP (mm)	256	Contrast enhancement	T1
ACQ voxel MPS (mm)	1.00 / 1.00 / 1.00	RL (mm)	170	Acquisition mode	cartesian
REC voxel MPS (mm)	1.00 / 1.00 / 1.00	Voxel size FH (mm)	1	Fast Imaging mode	TFE
Scan percentage (%)	100	AP (mm)	1	3D non-selective	no
TFE factor	218	RL (mm)	1	shot mode	single-shot
TFE dur. shot / acq (ms)	1789.2 / 1727.7	Recon voxel size (mm)	1	TFE startup echoes	default
Min. TI delay	916.4811	Fold-over suppression	no	shot interval	user defined
Act. WFS (pix) /	2.002 /	Slice oversamplina	default		

BW (Hz)	217.0	RF select. FOS	no	(ms)	3000
Min. WFS (pix) / Max. BW (Hz)	0.559 / 776.8	Reconstruction matrix	256	profile order	linear
SAR / local torso	< 11 %	SENSE	yes	turbo direction	Z
Whole body / level	< 0.1 W/kg / normal	P reduction (AP)	2	Echoes	1
SED	< 0.1 kJ/kg	S reduction (RL)	1	partial echo	no
B1+rms	0.54 uT	k-t BLAST	no	shifted echo	no
Max B1+rms	0.55 uT	Overcontiguous slices	no	TE	shortest
PNS / level	43 % / normal	Stacks	1	Flip angle (deg)	10
dB/dt	30.5 T/s	slices	170	TR	shortest
Sound Pressure Level (dB)	9.235933	slice orientation	sagittal	Halfscan	no
<b>MOTION</b>		fold-over direction	AP	Water-fat shift (pixels)	user defined 2
Cardiac synchronization	no	fat shift direction	F	Shim	auto
Heart rate > 250 bpm	no	Multi-chunk	no	mDIXON	no
Respiratory compensation	no	PlanAlign	no	Fat suppression	no
Navigator respiratory comp	no	REST slabs	1	Water suppression	no
Flow compensation	no	type	free	TFE prepulse	invert
fMRI echo stabilisation	no	orientation	transverse	slice selection	no
Motion smoothing	no	thickness (mm)	60	delay	shortest
NSA	1	power	1	PSIR	no
<b>DYN/ANG</b>		Catheter tracking	no	MTC	no
Angio / Contrast enh.	no	Interactive positioning	no	T2prep	no
Quantitative flow	no	External control	no	Research prepulse	no
CENTRA	no	Allow table movement	no	Diffusion mode	no
Manual start	no	<b>OFFC/ANG</b>		Multi-transmit	no
Dynamic study	no	Stacks	1	SAR mode	high
Arterial Spin labeling	no	Stack Offc. AP (P=+mm)	5.30303	B1 mode	default
<b>POST/PROC</b>		RL (L=+mm)	-0.759878 6	SAR Patient data	auto
Preparation phases	auto	FH (H=+mm)	3.778668	PNS mode	low
Interactive F0	no	Ang. AP (dea)	0	Gradient mode	default
				SofTone mode	yes



