

The parameters for non conventional MRI sequences used are given in the table below:

	3D SWI	2D MRV	Flow Quantification	3D MRV (Dynamic)	Hi-res MRA
				<i>Inject Contrast after 1<sup>st</sup> measurement for the 3D MRV</i>	
<b>Sequence</b>	gre	fl_tof	fl_fq_retro	fl3d_ce	fl_tof
Orientation	Axial	Axial	Axial*	Coronal	Coronal
TR (ms)	29	23	42.15	3.41	15
TE (ms)	20	5.02	4.14	1.27	3.77
FA (degree)	15	60	25	20	30
FOV (mm <sup>2</sup> )	256x192	256x256	256x256	340x255	400x400
Matrix size	512x256	512x256	448x448	384x384	640x640
Nz/TH (mm)	128/2	128/2.5	1/4	96/0.9	144/0.63
Voxel size (mm <sup>3</sup> )	0.5x1x2	0.5x1x2.5	0.57x0.57x4	0.9x0.9x0.9	0.63x0.63x0.63
Ave./Meas.	1	1	1	1/15	1
Slice oversa				8.3%	22.2%
Dist. factor	0	-33.0%	0	20%	-19.44%
Phase Enc. Dir	R>>L	A>>P	A>>P	R>>L	R>>L
iPAT	2/24	2/24	2/24	3/24	2/32
BW (Hz/pixel)	120	217	531	590	182
Flow Comp	Yes	Yes	No	Yes	Yes
Special Sat.		Tracking F	No		
Sat. parameter		Gap10mm; TH 40mm			
Flow Mode			Single Dir.		
Venc. (cm/s)			50		
1 <sup>st</sup> Signal/Mode			Pulse/Retro		
Coils	Head+Neck + SP1	Head+Neck + SP1	Head+Neck + SP1	Head+Neck + SP1	Head+Neck + SP1
<b>Time</b>	<b>06:39</b>	<b>7:08</b>	<b>1:21 (x4)*</b>	<b>4:18</b>	<b>7:10</b>
<b>Total Time</b>	<b>06:39</b>	<b>13:47</b>	<b>19:11</b>	<b>23:29</b>	<b>30:39</b>

\*Flow quantification will be done through the straight sinus and the jugular vein on its upper, median and lower part, which leads to a total of 4 acquisitions.