

# volBrain Volumetry Report. version 1.0 release 04-03-2015

Patient ID	Sex	Age	Report Date
job78236	Female	22	07-Apr-2018

Tissue type	Volume (cm <sup>3</sup> /%)		Image information	
White Matter (WM)	532.87 (35.40%)	[29.24, 43.74]	Orientation	radiological
Grey Matter (GM)	794.97 (52.81%)	[47.57, 59.40]	Scale factor	0.81
Cerebro Spinal Fluid (CSF)	177.61 (11.80%)	[5.29, 14.76]	SNR	23.97
Brain (WM + GM)	1327.84 (88.20%)	[85.24, 94.71]		
Intracranial Cavity (IC)	1505.45 (100.00%)			

Structure				
Cerebrum	Total (cm <sup>3</sup> /%)	Right (cm <sup>3</sup> /%)	Left (cm <sup>3</sup> /%)	Asym.(%)
	1144.41 (76.02%)	571.92 (37.99%)	572.49 (38.03%)	-0.1006
	[73.87, 82.74]	[36.93, 41.43]	[36.88, 41.37]	[-1.73, 2.07]

GM	WM	GM	WM	GM	WM
672.90	471.51	335.13	236.79	337.77	234.72
(44.70%)	(31.32%)	(22.26%)	(15.73%)	(22.44%)	(15.59%)
[40.45, 50.56]	[26.49, 39.11]	[20.23, 25.30]	[13.23, 19.61]	[20.21, 25.28]	[13.24, 19.52]

Cerebellum	Total (cm <sup>3</sup> /%)	Right (cm <sup>3</sup> /%)	Left (cm <sup>3</sup> /%)	Asym.(%)
	157.91 (10.49%)	78.56 (5.22%)	79.35 (5.27%)	-1.0007
	[8.60, 11.35]	[4.27, 5.66]	[4.31, 5.71]	[-5.03, 3.42]

GM	WM	GM	WM	GM	WM
118.73	39.19	58.00	20.56	60.72	18.63
(7.89%)	(2.60%)	(3.85%)	(1.37%)	(4.03%)	(1.24%)
[6.22, 9.00]	[1.42, 3.32]	[3.05, 4.47]	[0.70, 1.71]	[3.15, 4.54]	[0.71, 1.61]

Brainstem	Total (cm <sup>3</sup> /%)
	25.53 (1.70%) [1.41, 1.98]

Structure	Total (cm <sup>3</sup> /%)	Right (cm <sup>3</sup> /%)	Left (cm <sup>3</sup> /%)	Asymmetry (%)
Lateral ventricles	14.61 (0.97%)	6.21 (0.41%)	8.41 (0.56%)	-30.1209
	[0.00, 1.88]	[0.00, 0.93]	[0.00, 1.01]	[-67.3428, 47.37]
Caudate	8.17 (0.54%)	4.10 (0.27%)	4.06 (0.27%)	0.9883
	[0.45, 0.66]	[0.23, 0.33]	[0.22, 0.33]	[-8.0030, 10.56]
Putamen	9.36 (0.62%)	4.68 (0.31%)	4.68 (0.31%)	-0.0690
	[0.54, 0.76]	[0.27, 0.38]	[0.27, 0.38]	[-7.6231, 4.23]
Thalamus	13.52 (0.90%)	6.71 (0.45%)	6.82 (0.45%)	-1.5994
	[0.78, 0.99]	[0.38, 0.49]	[0.39, 0.50]	[-7.8176, 4.29]
Globus Pallidus	2.78 (0.18%)	1.39 (0.09%)	1.39 (0.09%)	0.4643
	[0.14, 0.22]	[0.07, 0.11]	[0.07, 0.11]	[-17.8160, 11.47]
Hippocampus	7.32 (0.49%)	3.73 (0.25%)	3.59 (0.24%)	3.7286
	[0.47, 0.64]	[0.24, 0.32]	[0.23, 0.32]	[-7.2941, 12.34]
Amygdala	1.96 (0.13%)	1.03 (0.07%)	0.93 (0.06%)	9.5710
	[0.09, 0.15]	[0.05, 0.08]	[0.04, 0.07]	[-11.6304, 20.21]
Accumbens	0.82 (0.05%)	0.38 (0.03%)	0.44 (0.03%)	-14.7783
	[0.04, 0.08]	[0.02, 0.04]	[0.02, 0.04]	[-39.6972, 11.43]

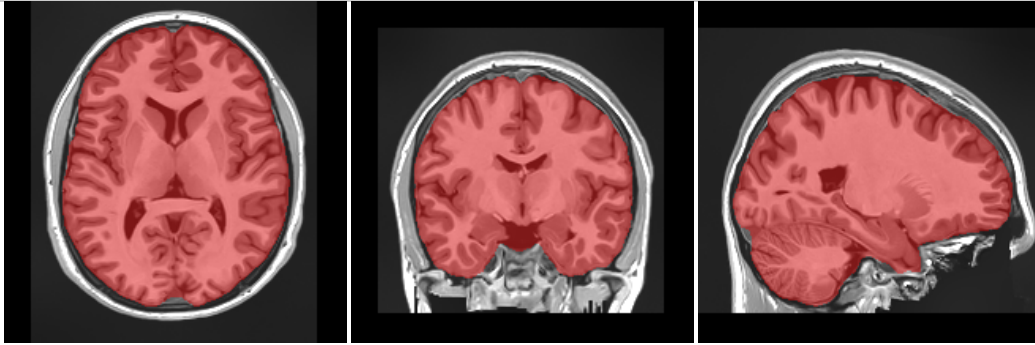
*\*All the volumes are presented in absolute value (measured in cm<sup>3</sup>) and in relative value (measured in relation to the ICV).*

*\*The Asymmetry Index is calculated as the difference between right and left volumes divided by their mean (in percent).*

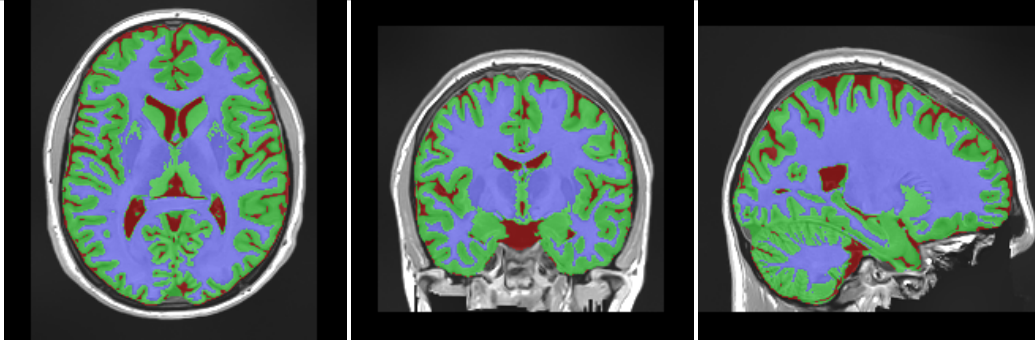
*\*Values between brackets show expected limits (95%) of normalized volume in function of sex and age for each measure for reference purpose.*

*\*Green and red values indicate that the volume is above or under the expected volume limits respectively.*

### Intracranial cavity extraction



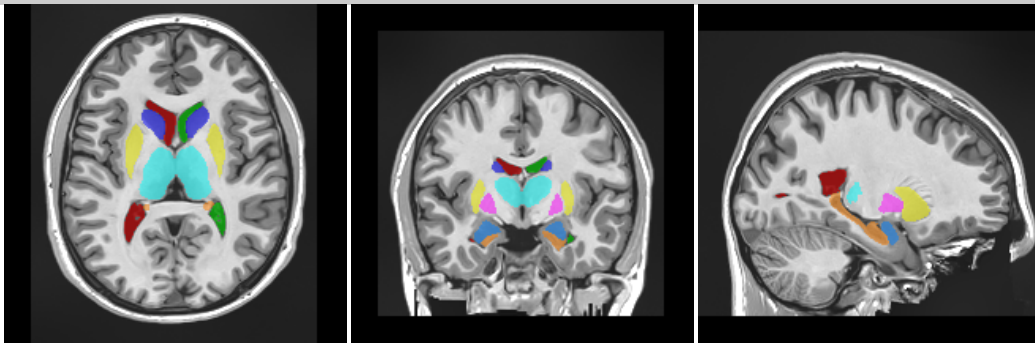
### Tissue classification



### Macrostructures



### Subcortical structures



*\*All the result images are located in the MNI space (neurological orientation, i.e. right is right).*