



Subject: job1937900

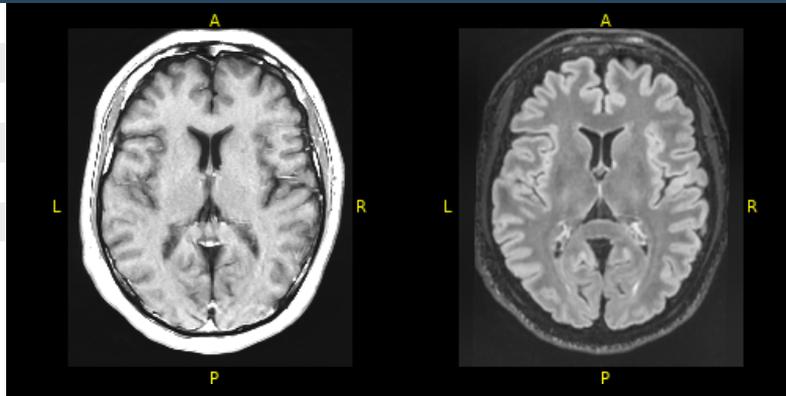
Sex: Female

Age: 47.0

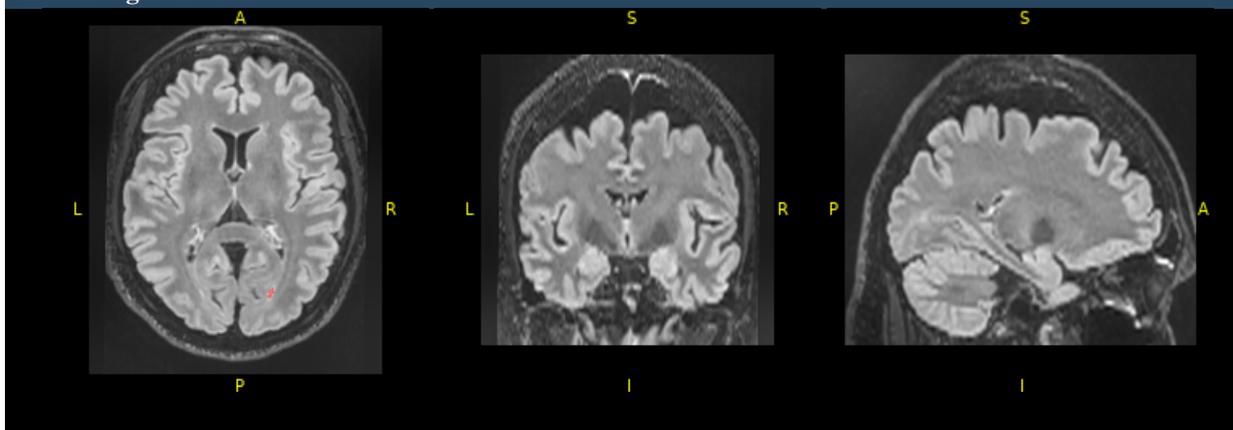
Report date: 13-Jan-2026

Quality control T1: **C**

Quality control FLAIR: **B**



Lesion segmentation



Lesion	Count	Volume (cm ³ / %)	Lesion burden (%)
Total lesions	2	0.0813 / 0.0067	0.0217
Periventricular	1	0.0488 / 0.0040	0.0130
Deepwhite	0	0.0000 / 0.0000	0.0000
Juxtacortical	0	0.0000 / 0.0000	0.0000
Infratentorial	1	0.0325 / 0.0027	0.0087
Cerebellar	0	0.0000 / 0.0000	0.0000
Medular	1	0.0325 / 0.0027	0.0087

All the volumes are presented in absolute value (measured in cm³) and in relative value (measured in relation to the IC volume).

The quality control evaluates the input image quality after preprocessing. **A** = good, **B** = moderate (i.e., the output requires human verification) and **C** = bad (i.e., the output should not be used).

The Lesion burden is calculated as the lesion volume divided by the total WM volume (in percent).

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

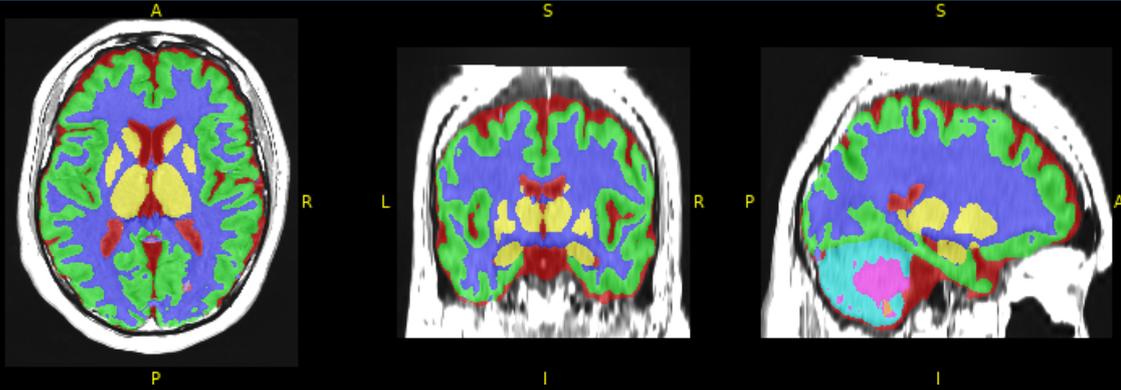
All the result images are located in the MNI space (neurological orientation).

Values between brackets show expected limits (95%) of normalized volume in function of sex and age for each measure for reference purpose. Values outside the limits are highlighted in red.

R. A. Kamraoui, V.-T. Ta, T. Tourdias, B. Mansencal, J. V. Manjon, P. Coupé, *DeepLesionBrain: Towards a broader deep-learning generalization for multiple sclerosis lesion segmentation*, Medical Image Analysis, 76, 2022 PDF

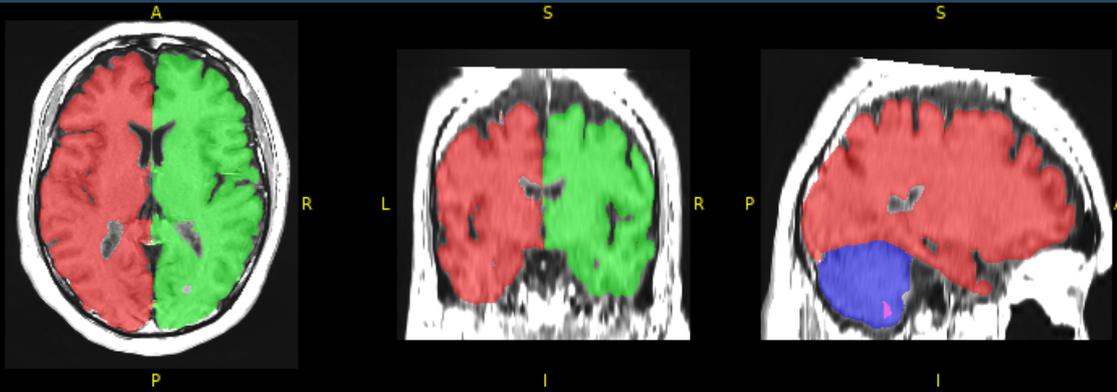
P. Coupé, B. Mansencal, M. Clément, R. Giraud, B. Denis de Senneville, V.-T. Ta, V. Lepetit, J. V. Manjon, *AssemblyNet: A large ensemble of CNNs for 3D whole brain MRI segmentation*, NeuroImage, Elsevier, 2020, 219, pp.117026 PDF

Tissue segmentation



Tissue	Volume (cm^3 / %)	
White Matter (WM)	375.29 / 30.878	[31.047, 35.670]
Normal appearing WM	375.21 / 30.871	
Abnormal appearing WM	0.08 / 0.007	
Grey Matter (GM)	604.11 / 49.704	[51.192, 54.647]
Subcortical GM	34.69 / 2.854	[3.055, 3.545]
Cortical GM	482.62 / 39.708	[39.854, 43.313]
Cerebellar GM	86.80 / 7.142	[7.203, 8.984]
Cerebro Spinal Fluid (CSF)	222.31 / 18.291	[9.441, 15.768]
Brain (WM+GM)	979.40 / 80.582	[82.962, 89.175]
Intracranial Cavity (IC)	1215.41 / 100.000	[100.000, 100.000]

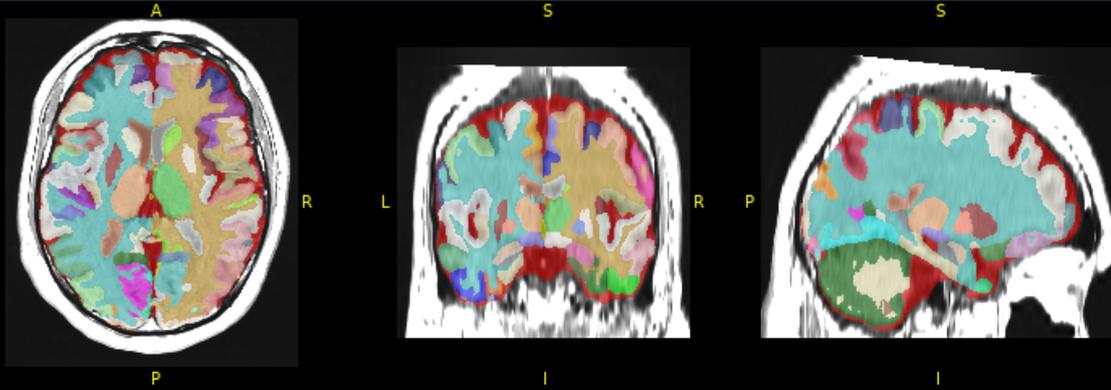
Macrostructure segmentation



Structure	Total (cm^3 / %)	Right (cm^3 / %)	Left (cm^3 / %)	Asymmetry (%)
Cerebrum	859.37 / 70.706 [73.110, 79.143]	429.83 / 35.365 [36.551, 39.626]	429.54 / 35.342 [36.505, 39.572]	0.0656 [-1.155, 1.425]
Cerebrum WM	342.06 / 28.144 [29.271, 33.691]	170.96 / 14.066 [14.634, 16.856]	171.10 / 14.078 [14.621, 16.862]	-0.0855 [-1.645, 1.658]
Cerebrum GM	517.31 / 42.562 [43.123, 46.623]	258.87 / 21.299 [21.573, 23.358]	258.44 / 21.264 [21.526, 23.292]	0.1655 [-1.126, 1.622]
Cerebellum*	109.83 / 9.036 [8.102, 10.218]	55.06 / 4.530 [4.071, 5.146]	54.77 / 4.507 [4.015, 5.080]	0.5167 [-1.530, 4.071]
Cerebellum WM	33.15 / 2.727 [1.596, 2.214]	18.33 / 1.508 [0.792, 1.118]	14.82 / 1.219 [0.799, 1.100]	21.1797 [-3.809, 5.240]
Cerebellum GM	76.68 / 6.309 [6.438, 8.088]	36.73 / 3.022 [3.248, 4.070]	39.96 / 3.287 [3.181, 4.020]	-8.4147 [-1.595, 4.465]
Vermis	10.12 / 0.832 [0.708, 0.956]			
Brainstem	13.79 / 1.134 [1.153, 1.503]			

* Cerebellum volumes do not include vermis volume.

Structure segmentation



Subcortical	Total (cm^3 / %)	Right (cm^3 / %)	Left (cm^3 / %)	Asymmetry (%)
Accumbens	0.52 / 0.043 [0.054, 0.087]	0.21 / 0.017 [0.025, 0.042]	0.31 / 0.025 [0.028, 0.045]	-39.0564 [-25.596, 6.581]
Amygdala	1.45 / 0.119 [0.140, 0.179]	0.70 / 0.058 [0.072, 0.092]	0.75 / 0.062 [0.067, 0.088]	-7.2829 [-2.664, 12.664]
Basal forebrain	0.76 / 0.063 [0.037, 0.057]	0.37 / 0.030 [0.016, 0.027]	0.39 / 0.032 [0.020, 0.032]	-7.8431 [-38.304, 1.638]
Caudate	4.23 / 0.348 [0.380, 0.519]	2.11 / 0.173 [0.192, 0.264]	2.12 / 0.175 [0.187, 0.259]	-0.7687 [-4.069, 7.922]
Hippocampus	5.04 / 0.415 [0.469, 0.609]	2.42 / 0.199 [0.236, 0.307]	2.62 / 0.216 [0.230, 0.305]	-8.3031 [-5.089, 8.322]
Pallidum	1.87 / 0.154 [0.199, 0.259]	0.96 / 0.079 [0.097, 0.128]	0.91 / 0.075 [0.101, 0.132]	5.5858 [-8.544, 2.145]
Putamen	5.66 / 0.466 [0.573, 0.725]	2.70 / 0.222 [0.284, 0.359]	2.96 / 0.244 [0.288, 0.367]	-9.1638 [-4.972, 2.538]
Thalamus	15.16 / 1.247 [1.064, 1.247]	7.85 / 0.646 [0.529, 0.622]	7.31 / 0.601 [0.534, 0.629]	7.1738 [-4.403, 2.469]
Ventral DC	8.66 / 0.712 [0.629, 0.783]	4.18 / 0.344 [0.309, 0.386]	4.48 / 0.368 [0.319, 0.398]	-6.8232 [-5.652, 0.527]
Cortical	Total (cm^3 / %)	Right (cm^3 / %)	Left (cm^3 / %)	Asymmetry (%)
Frontal lobe	168.33 / 13.849 [12.766, 14.618]	85.62 / 7.045 [6.389, 7.374]	82.70 / 6.804 [6.338, 7.281]	3.4714 [-2.754, 4.289]
Frontal pole	5.57 / 0.458 [0.394, 0.553]	3.26 / 0.269 [0.202, 0.291]	2.30 / 0.190 [0.179, 0.272]	34.5012 [-11.194, 24.531]
Gyrus rectus	3.19 / 0.263 [0.249, 0.397]	1.65 / 0.136 [0.125, 0.205]	1.54 / 0.127 [0.113, 0.206]	6.8293 [-24.612, 33.196]
Opercular inf. frontal gyrus	6.67 / 0.549 [0.395, 0.635]	3.65 / 0.300 [0.188, 0.345]	3.02 / 0.248 [0.183, 0.331]	18.9093 [-29.351, 41.409]
Orbital inf. frontal gyrus	2.61 / 0.215 [0.154, 0.294]	1.62 / 0.134 [0.066, 0.154]	0.99 / 0.082 [0.067, 0.158]	48.4330 [-53.237, 46.737]
Triangular inf. frontal gyrus	6.20 / 0.510 [0.398, 0.677]	2.73 / 0.224 [0.185, 0.342]	3.47 / 0.286 [0.186, 0.356]	-24.1398 [-35.897, 29.947]
Medial frontal cortex	2.23 / 0.184 [0.214, 0.349]	1.07 / 0.088 [0.100, 0.190]	1.16 / 0.095 [0.098, 0.181]	-7.5827 [-34.043, 37.088]

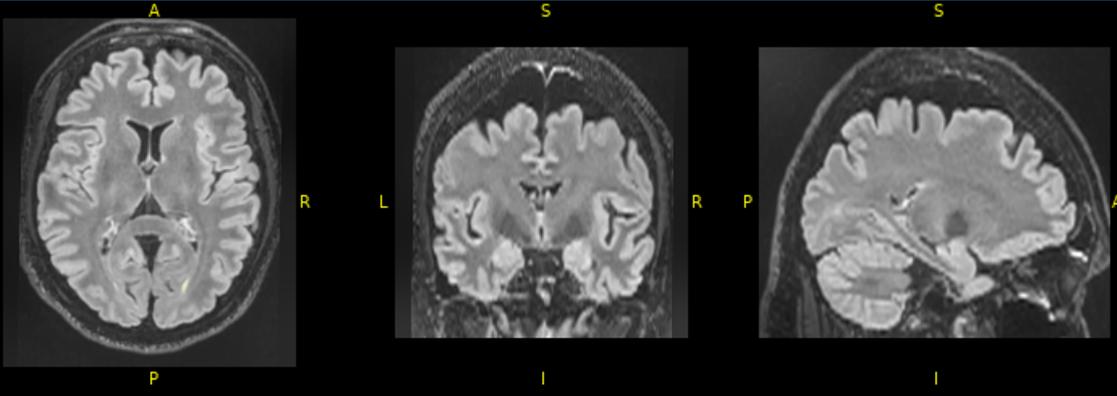
Middle frontal gyrus	39.09 / 3.216 [2.617, 3.341]	18.69 / 1.538 [1.270, 1.720]	20.40 / 1.679 [1.301, 1.683]	-8.7662 [-13.037, 12.981]
Anterior orbital gyrus	2.26 / 0.186 [0.221, 0.386]	1.27 / 0.105 [0.103, 0.210]	0.99 / 0.081 [0.096, 0.197]	24.8577 [-32.761, 47.366]
Lateral orbital gyrus	3.39 / 0.279 [0.279, 0.452]	1.85 / 0.152 [0.128, 0.236]	1.54 / 0.127 [0.127, 0.241]	17.8257 [-35.941, 38.028]
Medial orbital gyrus	7.12 / 0.586 [0.559, 0.782]	3.49 / 0.287 [0.272, 0.394]	3.63 / 0.299 [0.274, 0.405]	-4.1461 [-20.411, 13.838]
Posterior orbital gyrus	6.18 / 0.509 [0.361, 0.545]	2.99 / 0.246 [0.173, 0.281]	3.19 / 0.262 [0.174, 0.280]	-6.2014 [-21.656, 22.765]
Precentral gyrus	24.60 / 2.024 [1.774, 2.183]	12.61 / 1.038 [0.867, 1.111]	11.99 / 0.986 [0.863, 1.105]	5.0545 [-12.023, 12.385]
Precentral gyrus medial segment	5.11 / 0.421 [0.351, 0.502]	2.37 / 0.195 [0.164, 0.263]	2.74 / 0.226 [0.168, 0.261]	-14.6716 [-27.200, 23.176]
Subcallosal area	2.21 / 0.182 [0.114, 0.248]	1.23 / 0.101 [0.057, 0.126]	0.98 / 0.081 [0.056, 0.124]	22.1540 [-10.436, 17.447]
Sup. frontal gyrus	27.82 / 2.289 [1.927, 2.565]	14.87 / 1.224 [0.920, 1.309]	12.95 / 1.065 [0.959, 1.309]	13.8215 [-16.549, 13.985]
Sup. frontal gyrus medial segment	12.93 / 1.064 [0.802, 1.181]	7.22 / 0.594 [0.391, 0.643]	5.71 / 0.470 [0.357, 0.582]	23.4093 [-18.384, 37.476]
Supplementary motor cortex	11.13 / 0.916 [0.660, 0.930]	5.05 / 0.415 [0.313, 0.475]	6.08 / 0.500 [0.314, 0.481]	-18.6199 [-24.338, 22.871]
Temporal lobe	90.40 / 7.438 [7.405, 8.749]	44.47 / 3.659 [3.687, 4.447]	45.93 / 3.779 [3.652, 4.371]	-3.2289 [-4.489, 7.682]
Fusiform gyrus	11.95 / 0.984 [0.935, 1.377]	5.94 / 0.489 [0.451, 0.713]	6.01 / 0.495 [0.448, 0.695]	-1.2351 [-20.500, 22.251]
Planum polare	5.23 / 0.430 [0.256, 0.371]	2.60 / 0.214 [0.123, 0.186]	2.63 / 0.216 [0.125, 0.193]	-1.1396 [-21.737, 18.511]
Planum temporale	2.68 / 0.221 [0.210, 0.378]	1.16 / 0.095 [0.083, 0.180]	1.52 / 0.125 [0.111, 0.213]	-27.4886 [-56.313, 15.043]
Inf. temporal gyrus	16.63 / 1.369 [1.572, 2.079]	7.31 / 0.601 [0.759, 1.058]	9.32 / 0.767 [0.773, 1.077]	-24.2417 [-18.450, 14.257]
Middle temporal gyrus	26.43 / 2.175 [1.920, 2.471]	13.00 / 1.070 [0.947, 1.266]	13.43 / 1.105 [0.914, 1.256]	-3.2797 [-12.256, 17.570]
Sup. temporal gyrus	12.13 / 0.998 [0.904, 1.261]	6.39 / 0.526 [0.437, 0.647]	5.74 / 0.472 [0.433, 0.653]	10.7719 [-20.348, 19.734]
Transverse temporal gyrus	3.40 / 0.280 [0.179, 0.306]	1.76 / 0.145 [0.082, 0.155]	1.65 / 0.135 [0.089, 0.164]	6.6083 [-37.706, 21.369]
Temporal pole	11.93 / 0.982 [1.125, 1.585]	6.31 / 0.520 [0.554, 0.807]	5.62 / 0.462 [0.554, 0.793]	11.6686 [-10.320, 13.893]
Parietal lobe	97.84 / 8.050 [7.773, 9.089]	48.18 / 3.964 [3.846, 4.541]	49.66 / 4.086 [3.886, 4.588]	-3.0387 [-5.913, 4.408]
Angular gyrus	19.10 / 1.572 [1.245, 1.927]	9.15 / 0.753 [0.653, 1.044]	9.95 / 0.818 [0.548, 0.929]	-8.2893 [-9.484, 36.993]
Postcentral gyrus	19.72 / 1.623 [1.457, 1.907]	9.80 / 0.806 [0.686, 0.929]	9.93 / 0.817 [0.741, 1.013]	-1.3049 [-20.422, 7.161]
Postcentral gyrus medial segment	1.67 / 0.138 [0.107, 0.206]	0.81 / 0.067 [0.052, 0.112]	0.86 / 0.071 [0.047, 0.106]	-5.1033 [-32.540, 46.587]

Precuneus	21.01 / 1.729 [1.448, 1.884]	10.02 / 0.824 [0.726, 0.962]	10.99 / 0.904 [0.703, 0.949]	-9.2568 [-9.440, 13.450]
Sup. parietal lobule	21.63 / 1.780 [1.422, 1.969]	10.69 / 0.879 [0.684, 0.997]	10.94 / 0.900 [0.692, 1.011]	-2.3921 [-16.884, 15.810]
Supramarginal gyrus	14.70 / 1.210 [1.109, 1.593]	7.70 / 0.634 [0.514, 0.828]	7.00 / 0.576 [0.541, 0.831]	9.6273 [-26.390, 21.780]
Occipital lobe	60.91 / 5.011 [5.553, 6.815]	31.73 / 2.610 [2.805, 3.489]	29.18 / 2.401 [2.708, 3.384]	8.3617 [-4.766, 9.800]
Calcarine cortex	6.48 / 0.533 [0.431, 0.713]	3.07 / 0.253 [0.214, 0.360]	3.41 / 0.280 [0.210, 0.362]	-10.3041 [-13.857, 17.573]
Cuneus	7.10 / 0.584 [0.603, 0.884]	3.61 / 0.297 [0.295, 0.456]	3.49 / 0.287 [0.290, 0.449]	3.3025 [-17.524, 22.056]
Lingual gyrus	13.79 / 1.134 [1.120, 1.558]	6.68 / 0.550 [0.544, 0.814]	7.11 / 0.585 [0.545, 0.785]	-6.2190 [-17.545, 19.661]
Occipital fusiform gyrus	5.74 / 0.473 [0.450, 0.739]	2.65 / 0.218 [0.198, 0.384]	3.10 / 0.255 [0.224, 0.408]	-15.6567 [-43.967, 25.310]
Inf. occipital gyrus	10.43 / 0.858 [0.856, 1.276]	5.82 / 0.478 [0.420, 0.676]	4.61 / 0.379 [0.390, 0.659]	23.1114 [-21.293, 31.299]
Middle occipital gyrus	7.41 / 0.610 [0.652, 0.992]	4.38 / 0.360 [0.319, 0.526]	3.04 / 0.250 [0.296, 0.521]	36.2075 [-23.779, 31.805]
Sup. occipital gyrus	6.46 / 0.532 [0.503, 0.800]	3.69 / 0.303 [0.260, 0.437]	2.78 / 0.228 [0.210, 0.392]	28.1283 [-12.974, 43.425]
Occipital pole	3.50 / 0.288 [0.313, 0.559]	1.84 / 0.152 [0.152, 0.284]	1.66 / 0.136 [0.143, 0.292]	10.6119 [-29.371, 32.865]
Limbic cortex	37.05 / 3.048 [2.839, 3.375]	17.98 / 1.480 [1.357, 1.692]	19.07 / 1.569 [1.416, 1.760]	-5.8492 [-16.494, 8.154]
Entorhinal area	3.78 / 0.311 [0.244, 0.391]	1.97 / 0.162 [0.120, 0.202]	1.80 / 0.148 [0.119, 0.201]	9.1822 [-23.076, 23.682]
Anterior cingulate gyrus	7.60 / 0.625 [0.659, 0.982]	3.44 / 0.283 [0.287, 0.507]	4.16 / 0.342 [0.340, 0.535]	-18.7912 [-40.094, 19.337]
Middle cingulate gyrus	10.16 / 0.836 [0.653, 0.883]	5.03 / 0.414 [0.318, 0.458]	5.13 / 0.422 [0.305, 0.456]	-1.9868 [-20.278, 22.979]
Posterior cingulate gyrus	9.20 / 0.757 [0.613, 0.783]	4.49 / 0.370 [0.296, 0.403]	4.70 / 0.387 [0.306, 0.397]	-4.5066 [-16.114, 12.600]
Parahippocampal gyrus	6.32 / 0.520 [0.421, 0.585]	3.04 / 0.250 [0.195, 0.287]	3.28 / 0.270 [0.218, 0.308]	-7.4344 [-22.788, 4.004]
Insular cortex	28.10 / 2.312 [1.989, 2.425]	13.58 / 1.117 [0.968, 1.193]	14.52 / 1.194 [1.010, 1.243]	-6.6765 [-10.373, 2.385]
Anterior insula	7.27 / 0.598 [0.553, 0.715]	3.56 / 0.293 [0.269, 0.357]	3.71 / 0.305 [0.278, 0.364]	-4.2664 [-10.944, 5.859]
Posterior insula	4.32 / 0.355 [0.295, 0.401]	2.04 / 0.168 [0.145, 0.204]	2.28 / 0.188 [0.143, 0.201]	-11.0710 [-11.187, 15.379]
Central operculum	8.44 / 0.695 [0.495, 0.673]	4.15 / 0.342 [0.236, 0.340]	4.29 / 0.353 [0.249, 0.352]	-3.2240 [-21.568, 13.198]
Frontal operculum	3.35 / 0.276 [0.219, 0.360]	1.52 / 0.125 [0.098, 0.185]	1.83 / 0.151 [0.105, 0.185]	-18.8725 [-33.667, 28.443]
Parietal operculum	4.71 / 0.388 [0.274, 0.436]	2.31 / 0.190 [0.114, 0.210]	2.40 / 0.198 [0.143, 0.243]	-3.8799 [-43.286, 9.656]

CSF	Total (cm^3 / %)	Right (cm^3 / %)	Left (cm^3 / %)	Asymmetry (%)
Inf. lateral ventricle	1.35 / 0.111 [0.029, 0.100]	0.86 / 0.070 [0.014, 0.060]	0.49 / 0.041 [0.011, 0.047]	53.8153 [-34.577, 87.124]
Lateral ventricle	16.08 / 1.323 [0.627, 2.514]	7.81 / 0.643 [0.291, 1.244]	8.27 / 0.680 [0.320, 1.320]	-5.6445 [-40.009, 24.796]
3rd ventricle	0.76 / 0.063 [0.026, 0.103]			
4th ventricle	1.29 / 0.106 [0.074, 0.187]			
External CSF	202.83 / 16.688 [8.271, 13.872]			

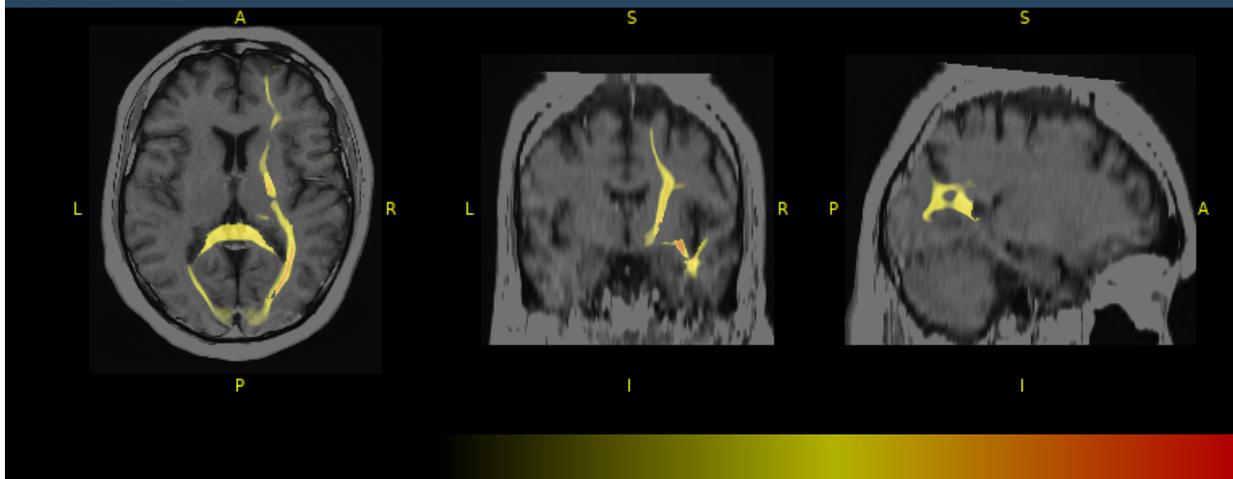
Cerebellar vermis	Total (cm^3 / %)
Lobules I-V	5.20 / 0.428 [0.339, 0.485]
Lobules VI-VII	2.28 / 0.188 [0.156, 0.239]
Lobules VIII-X	2.63 / 0.216 [0.180, 0.269]

Lesion instances



Periventricular lesions	Volume (cm^3 / %)	Lesion burden (%)
Lesion 1	0.0488 / 0.0040	0.0130
Medular lesions	Volume (cm^3 / %)	Lesion burden (%)
Lesion 2	0.0325 / 0.0027	0.0087

Disconnectome



Normal

Disconnection

WM tract	Disconnection probability (%)
Inferior fronto occipital fasciculus right	85.44
Corticospinal tract right	78.14
Inferior longitudinal fasciculus right	77.19
Corpus callosum forceps major	70.45
Optic radiation right	69.62
Corticostriatal tract posterior right	63.13
Corticobulbar tract right	63.06
Corticopontine tract parietal right	58.32
Corticopontine tract occipital right	54.97
Corticopontine tract frontal right	53.80
Corticopontine tract frontal left	0.00
Vertical occipital fasciculus right	0.00
Corticopontine tract occipital left	0.00
Corticospinal tract left	0.00
Corticostriatal tract anterior left	0.00
Corticostriatal tract anterior right	0.00
Corticopontine tract parietal left	0.00
Corpus callosum tapetum	0.00
Corticobulbar tract left	0.00
Corpus callosum forceps minor	0.00
Corpus callosum body	0.00
Cingulum rorolfactory right	0.00
Cingulum rorolfactory left	0.00
Cingulum parahippocampal right	0.00
Cingulum parahippocampal parietal right	0.00
Cingulum parahippocampal parietal left	0.00
Cingulum parahippocampal left	0.00
Cingulum frontal parietal right	0.00
Cingulum frontal parietal left	0.00
Cingulum frontal parahippocampal right	0.00
Cingulum frontal parahippocampal left	0.00
Arcuate fasciculus right	0.00
Corticostriatal tract posterior left	0.00

Corticostriatal tract superior right	0.00
Corticostriatal tract superior left	0.00
Vertical occipital fasciculus left	0.00
Uncinate fasciculus right	0.00
Uncinate fasciculus left	0.00
Thalamic radiation superior right	0.00
Thalamic radiation superior left	0.00
Thalamic radiation posterior right	0.00
Thalamic radiation posterior left	0.00
Thalamic radiation anterior right	0.00
Thalamic radiation anterior left	0.00
Superior longitudinal fasciculus3 right	0.00
Superior longitudinal fasciculus3 left	0.00
Superior longitudinal fasciculus2 right	0.00
Superior longitudinal fasciculus2 left	0.00
Superior longitudinal fasciculus1 right	0.00
Superior longitudinal fasciculus1 left	0.00
Reticulospinal tract right	0.00
Reticulospinal tract left	0.00
Parietal aslant tract right	0.00
Parietal aslant tract left	0.00
Optic radiation left	0.00
Middle longitudinal fasciculus right	0.00
Middle longitudinal fasciculus left	0.00
Inferior longitudinal fasciculus left	0.00
Inferior fronto occipital fasciculus left	0.00
Frontal aslant tract right	0.00
Frontal aslant tract left	0.00
Fornix right	0.00
Fornix left	0.00
Arcuate fasciculus left	0.00