lesionBrain volumetry report

version 1.1 release 18-Dec-2020.
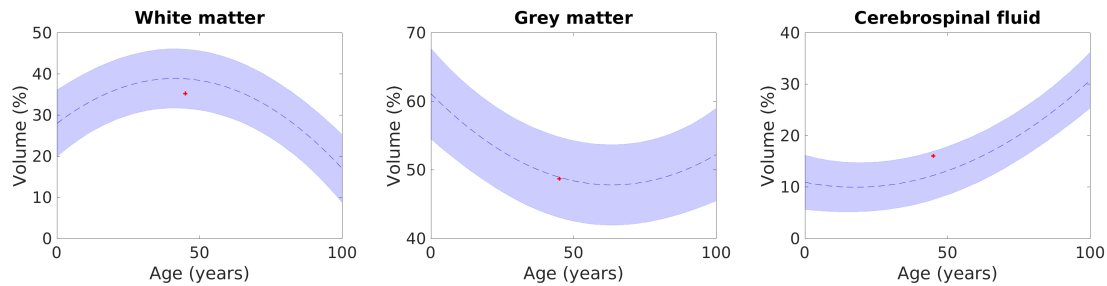
Patient ID	Sex	Age	Report Date
job281257	Female	45	29-Apr-2021

Image Information

Orientation	neurological
Scale factor	0.74
SNR	60.71

Tissue volumes	Absolute (cm^3)	Normalized (%)
Total intracranial volume	1347.45	100
White matter (including lesions)	474.84	35.24 [31.65 - 46.04]
Grey matter	656.47	48.72 [43.19 - 54.93]
Cerebrospinal fluid	216.14	16.04 [7.40 - 16.79]

Tissue expected volumes

Lesion	Count	Absolute vol. (cm^3)	Normalized vol. (%)	Lesion burden
Total	24	2.7571	0.20	0.58
Periventricular	11	1.4423	0.11	0.30
Juxtacortical	7	0.7683	0.06	0.16
Deep white	5	0.1832	0.01	0.04
Infratentorial	1	0.3634	0.03	0.08
Cerebellar	1	0.3634	0.03	0.08
Medular	0	0.0000	0.00	0.00

Periventricular	Absolute vol. (cm^3)	Normalized vol. (%)	Position (MNI coord.)
Lesion 1	0.3471	0.0258	(72, 62, 85)
Lesion 2	0.2729	0.0203	(54, 115, 78)
Lesion 3	0.2499	0.0185	(155, 109, 75)
Lesion 4	0.1602	0.0119	(107, 112, 102)
Lesion 5	0.1201	0.0089	(155, 76, 73)
Lesion 6	0.0942	0.0070	(104, 73, 105)
Lesion 7	0.0586	0.0043	(130, 109, 101)
Lesion 8	0.0519	0.0039	(73, 125, 77)
Lesion 9	0.0378	0.0028	(77, 119, 92)
Lesion 10	0.0311	0.0023	(88, 113, 101)

All the volumes are presented in absolute value (measured in cm^3) and in relative value (measured in relation to the ICV).
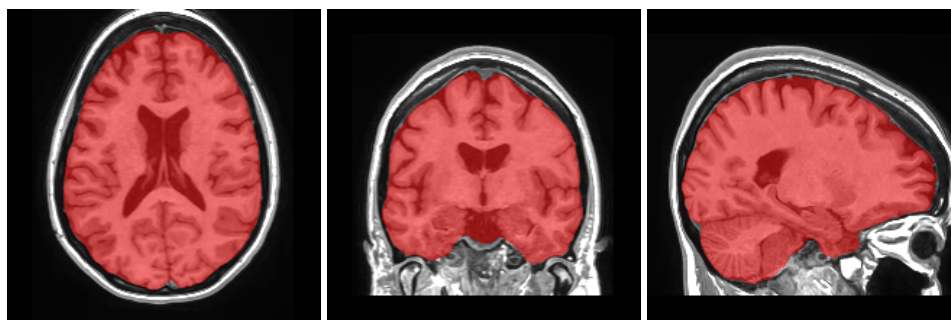
Values between brackets show expected limits (95%) of normalized volume in function of sex and age for each measure for reference purpose.

Position provides the x, y and z coordinates of the lesion center of mass.

Lesion burden is calculated as the lesion volume divided by the white matter volume.

Result images located in the MNI space (neurological orientation).

Lesion 11	0.0185	0.0014	(142, 73, 93)
Juxtacortical	**Absolute vol. (cm^3)**	**Normalized vol. (%)**	**Position (MNI coord.)**
Lesion 1	0.5443	0.0404	(47, 73, 75)
Lesion 2	0.0556	0.0041	(114, 129, 102)
Lesion 3	0.0460	0.0034	(124, 56, 48)
Lesion 4	0.0371	0.0028	(153, 121, 89)
Lesion 5	0.0349	0.0026	(124, 132, 93)
Lesion 6	0.0326	0.0024	(126, 112, 43)
Lesion 7	0.0178	0.0013	(40, 113, 75)

Deep white	**Absolute vol. (cm^3)**	**Normalized vol. (%)**	**Position (MNI coord.)**
Lesion 1	0.0853	0.0063	(134, 72, 108)
Lesion 2	0.0445	0.0033	(83, 128, 83)
Lesion 3	0.0193	0.0014	(171, 120, 74)
Lesion 4	0.0178	0.0013	(165, 113, 90)
Lesion 5	0.0163	0.0012	(82, 62, 94)

Cerebellar	**Absolute vol. (cm^3)**	**Normalized vol. (%)**	**Position (MNI coord.)**
Lesion 1	0.3634	0.0270	(75, 57, 32)

*All the volumes are presented in absolute value (measured in cm^3) and in relative value (measured in relation to the ICV).

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

*Position provides the x, y and z coordinates of the lesion center of mass.
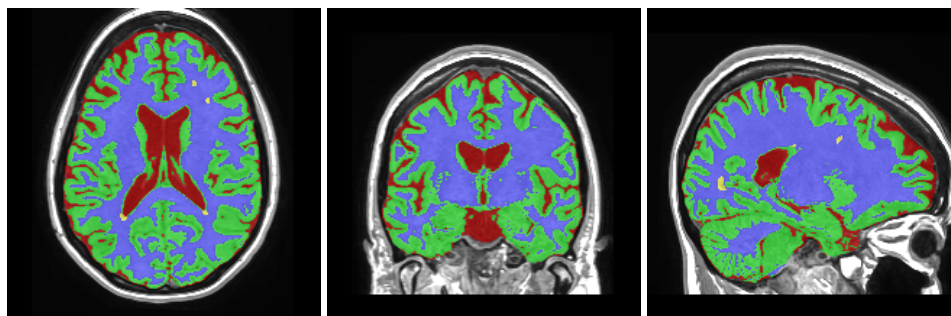
*Lesion burden is calculated as the lesion volume divided by the white matter volume.

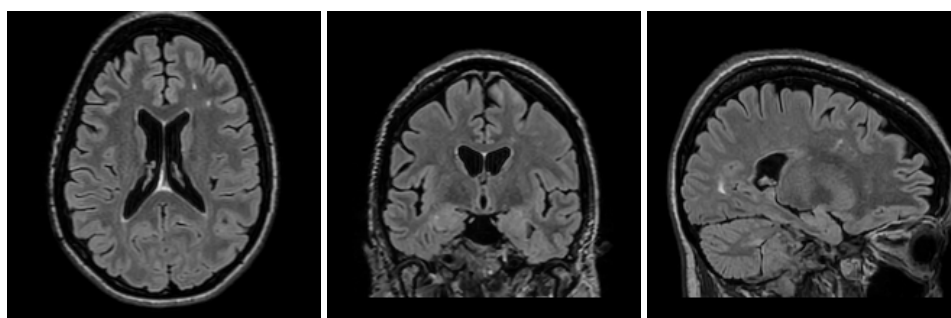*Result images located in the MNI space (neurological orientation).
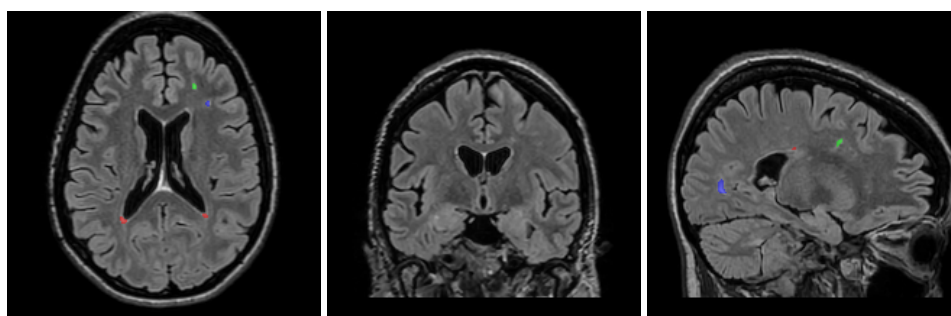
Intracranial cavity extraction

Tissue clasification

FLAIR

Lesions