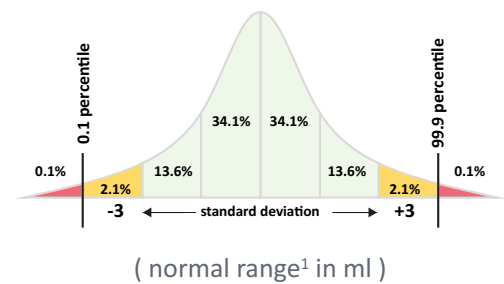


AIRAscore structure

Report

Order-ID: 468 JLU 28K
 Person: **SPG4 example** (f), born Mar 01, 1971
 Acquisition: **Feb 28, 2015, 10:38 AM**
 Evaluation: May 04, 2022, 07:53 AM (+02:00 UTC), Software Version 2.0.1
 Sequence: 3, t1_mprage_sag_p2_iso_0.9, sagittal, $0.9 \times 0.9 \times 0.9 \text{ mm}^3$, TR: 2300.0 ms, TE: 2.32 ms, TI: 900.0 ms, FA: 8.0°, SIEMENS, Skyra, 3.0 T



Tissue Type

	absolute volume in ml	relative volume in %TIV (percentile)			
Total brain volume	1054.1	73.5 (5.5)		*	(1036.1 - 1215.9)
Gray matter (GM)	614.1	42.8 (24.2)		*	(574.9 - 697.9)
White matter (WM)	437.9	30.5 (4.5)		*	(430.1 - 550.6)
GM cerebrum (L)	229.5	16.0 (18.4)		*	(214.8 - 267.1)
GM cerebrum (R)	230.4	16.1 (21.2)		*	(214.6 - 267.6)
T1 hypointense lesions (white matter lesions, perivascular spaces)	2.17	0.15 (pathol. > 1)			

Infratentorial

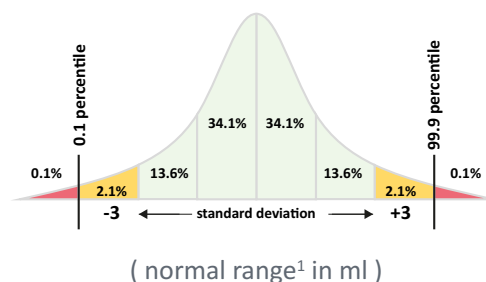
Midbrain	5.5	0.4 (18.4)		*	(5.0 - 6.7)
Pons	11.9	0.8 (4.5)		*	(11.5 - 17.7)
Midbrain / Pons	0.46 [#]	(96.4)		*	(0.3358 - 0.4666)
Total cerebellum	135.3	9.4 (54.0)		*	(112.2 - 156.8)
GM cerebellum (L)	55.7	3.9 (57.9)		*	(45.0 - 68.0)
GM cerebellum (R)	55.7	3.9 (57.9)		*	(45.0 - 68.0)

¹ Normal range is adapted for head size, age and gender

[#] Without unit



The evaluation results of this report must be checked for plausibility and correctness by a qualified physician (specialist) for clinical assessment and diagnosis.



Ventricles

	absolute volume in ml	relative volume in %TIV (percentile)	
Lateral ventricle (L)	15.1	1.1 (86.4)	(0.0 - 22.1) *
Lateral ventricle (R)	16.5	1.2 (93.3)	(0.0 - 20.0) *
3rd ventricle	1.22	0.08 (81.6)	(0.0 - 1.8) *
4th ventricle	1.5	0.1 (42.1)	(0 * - 2.7)

Brain Lobes (gray matter)

Frontal (L)	81.3	5.7 (27.4)	* (3.9 - 95.2)
Parietal (L)	55.7	3.9 (61.8)	(46.9 - 6 *)
Occipital (L)	22.3	1.6 (13.6)	* (20.2 - 29.9)
Temporal (L)	51.8	3.6 (15.9)	* (48.0 - 63.7)
Insula (L)	6.3	0.4 (2.9)	* (6.2 - 8.7)
Frontal (R)	79.0	5.5 (18.4)	* (73.3 - 94.7)
Parietal (R)	57.4	4.0 (72.6)	(47.5 - 62 *)
Occipital (R)	24.8	1.7 (27.4)	* (1.2 - 31.4)
Temporal (R)	51.7	3.6 (18.4)	* (47.4 - 63.2)
Insula (R)	6.6	0.5 (13.6)	* (6.0 - 8.5)

Limbic Lobe

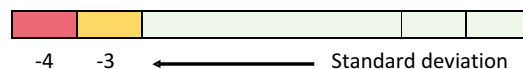
Hippocampus (L)	3.14	0.22 (15.9)	* (2.8 - 4.2)
GM cingulate gyrus (L)	9.0	0.6 (9.7)	* (8.3 - 12.0)
Hippocampus (R)	3.13	0.22 (11.5)	* (2.8 - 4.4)
GM cingulate gyrus (R)	7.8	0.5 (1.8)	* (7.9 - 11.2)

¹ Normal range is adapted for head size, age and gender

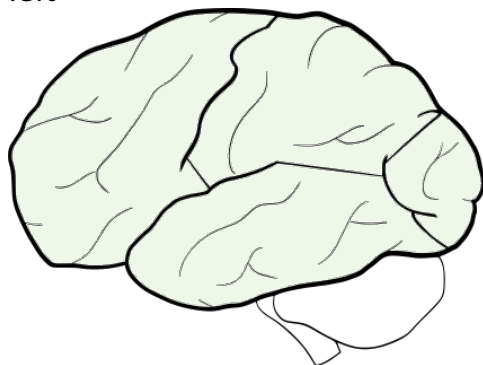


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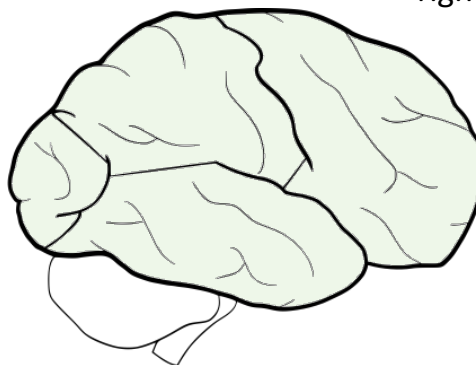
Brain Volume Reduction:



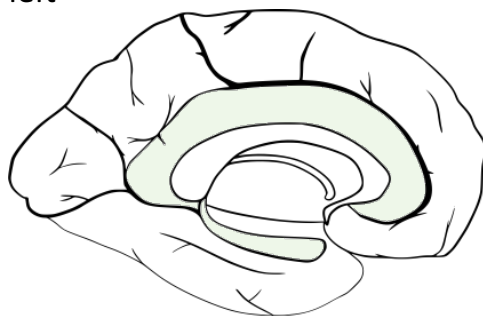
left



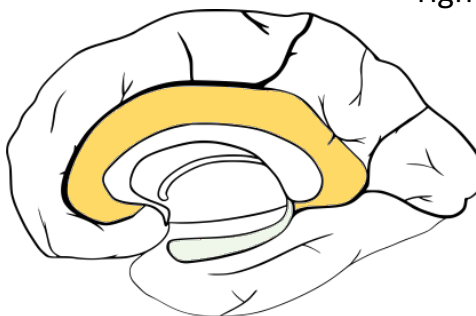
right



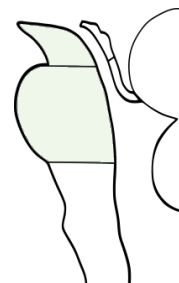
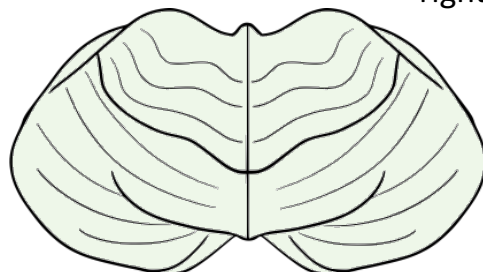
left



right



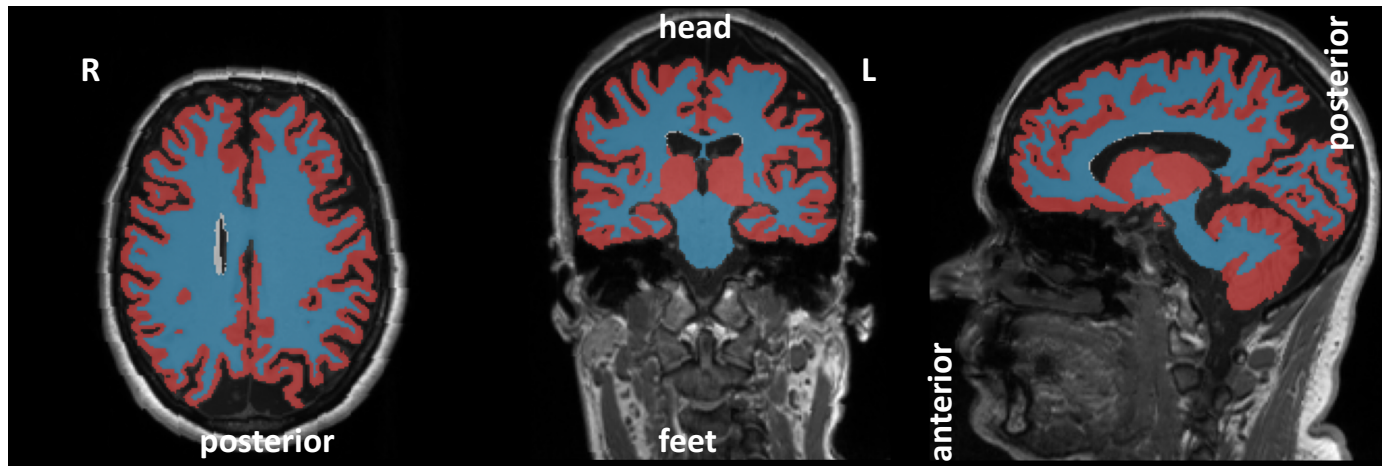
right



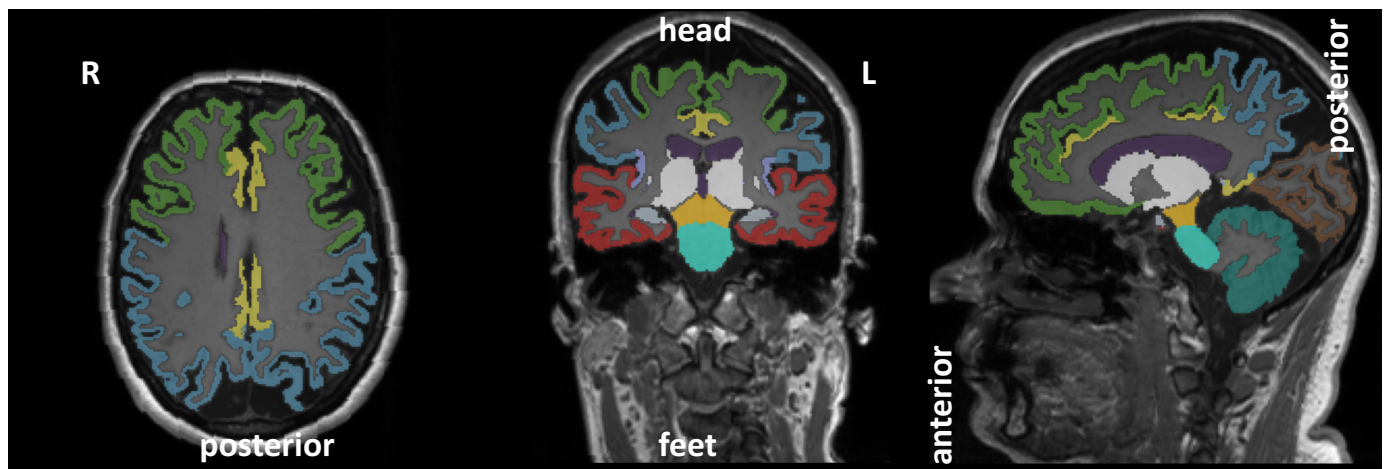
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Standardized Slices for Validation:

Tissue classes coregistered to the original T1 image



Anatomic labels coregistered to the original T1 image



The segmented tissue classes and anatomical labels must be correctly displayed on the anatomy of the original T1 image.



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Order-ID: 468 JLU 28K
Person: **SPG4 example** (f), born Mar 01, 1971
Acquisition: **Feb 28, 2015**, 10:38 AM
Evaluation: May 04, 2022, 07:53 AM (+02:00 UTC), Software Version 2.0.1

Customer Notice

Dear Customer,

Thank you for choosing AIRAscore.

We would like to point out that a comparability of the present evaluation results cannot be guaranteed if the underlying image data originate from different MR scanners or were acquired with different MR sequences.

The quantitative evaluation of brain structures can only support, but not replace, the assessment and diagnosis by a qualified physician (specialist).

Regarding the lobe anatomy, we point out that cingulum and hippocampus are reported as separate structures. These are not included in the gray matter volume data for the frontal, parietal and temporal lobes.

The measurement accuracy of the reported volumes given in milliliters (ml) is ± 0.01 ml.

AIRAm does not give any warranty for the assessment and diagnosis derived from the results of the report.

The results of this report must be checked by a qualified physician (specialist) for plausibility and correctness before being used for clinical evaluation and diagnosis. Further instructions regarding this can be found in our instructions for use.

To receive a printed version of the instructions for use within 7 days, please contact service@airamed.de.

Do you have any questions or suggestions? As a young, medium-sized company with a university background, we are always open to and grateful for suggestions for improvement.



The evaluation results of this report must be checked for plausibility and correctness by a qualified physician (specialist) for clinical assessment and diagnosis.