deepcalth

Saige Brain

Assess and monitor neurodegenerative changes with quantitative and reference data.

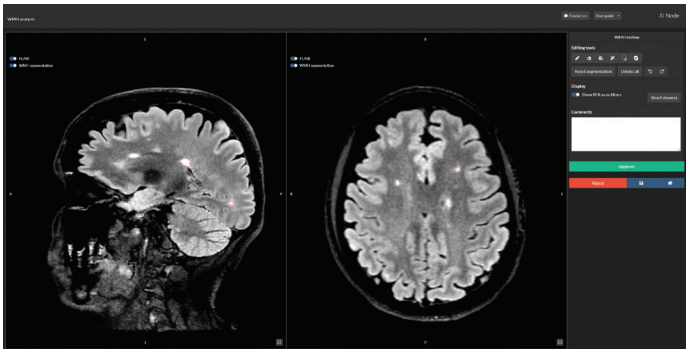
FDA cleared | CE marked

Key benefits

– Leverage objective staging of atrophy and compare your patient's results to a reference population.
– Track atrophy and WMH progression and therapy response in patients with quantitative analysis.
– Enhance your communication using standardized, easy-to-understand reports to increase patient satisfaction.
– Read the results of the automated analysis when it fits your schedule.
– Seamless integration into your clinical workflow, on site or in the cloud.

Brain atrophy analysis

– Fully automatic brain segmentations and volumetry measurements including total brain volume, ICV, lobes, and hippocampus.
– All segmentations are sent to the PACS as DICOM secondary capture series.
– Reference centile curves combined with the volumetric measurements of your patient's brain structures.[1]
– Cross-sectional and longitudinal analysis available to support single examinations as well as follow up exams.



User interface for WMH review

WMH analysis

– Cross-sectional and longitudinal analysis available to support single examinations and WMH progression tracking.
– Automatic WMH segmentation that can be corrected if needed.
– Fully automatic computation of volume changes and labeling of WMH as new, preexisting or disappearing.

[1] M. Ikram, A. van der Lugt, W. Niessen, P. Koudstaal, G. Krestin, A. Hofman, D. Bos and M. Vernooij, "The Rotterdam Scan Study: design update 2016 and main findings," European Journal of Epidemiology, 2015.

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All results in clear standardized reports

Brain, hipoccampus and brain lobes volumetry, volumetry change and percentiles

Longitudinal atrophy analysis
Powered by Saige Brain

Patient ID	Patient name	Sex	Date of birth	Age at latest exam	Report date

Brain volumetry

	2012-08-03 Percentile	2012-08-03 Volume	2014-08-12 Percentile	2014-08-12 Volume	Change in Volume (pp)	Change in (normalized) Volume (pp/year)
Brain	37.4	76.9 % of ICV	27.7	75.7 % of ICV	-1.1	-0.6
ICV	-	1613 cm³	-	1612 cm³	-	-

Hippocampus volumetry

	2012-08-03 Percentile	2012-08-03 Volume (% of ICV)	2014-08-12 Percentile	2014-08-12 Volume (% of ICV)	Change in Volume (pp)	Change in (normalized) Volume (pp/year)
Total	0.4	0.3	0.5	0.3	0.0	0.0
Right	0.7	0.1	0.8	0.1	0.0	0.0
Left	0.6	0.1	0.7	0.1	0.0	0.0

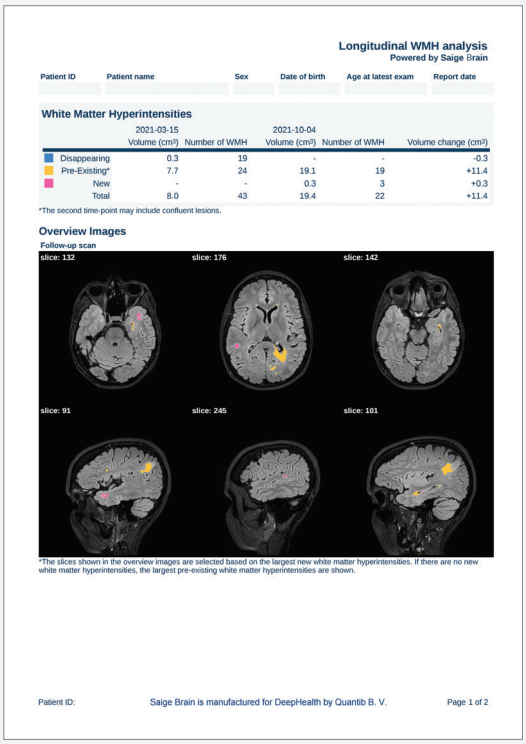
Lobes volumetry

	2012-08-03 Percentile	2012-08-03 Volume (% of ICV)	2014-08-12 Percentile	2014-08-12 Volume (% of ICV)	Change in Volume (pp)	Change in (normalized) Volume (pp/year)
Frontal						
Total	28.4	22.3	24.2	22.0	-0.3	-0.1
Right	30.1	11.2	24.5	11.0	-0.2	-0.1
Left	27.9	11.1	25.1	11.0	-0.1	-0.1
Occipital						
Total	49.8	7.1	30.3	6.8	-0.3	-0.2
Right	82.4	3.8	63.2	3.6	-0.2	-0.1
Left	15.1	3.3	8.7	3.2	-0.1	-0.1
Parietal						
Total	20.2	15.2	16.9	15.1	-0.2	-0.1
Right	17.4	7.5	12.2	7.4	-0.1	-0.1
Left	25.0	7.7	24.9	7.7	-0.0	-0.0
Temporal						
Total	11.8	12.0	7.6	11.8	-0.3	-0.1
Right	21.7	6.3	11.8	6.1	-0.2	-0.1
Left	7.6	5.7	6.5	5.7	-0.1	-0.0

Reference centile curves

Reference curves that compare the patient's brain to a non-demented reference population

Total amount and volume of pre-existing, disappearing and new hyperintensities



Longitudinal WMH analysis
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White Matter Hyperintensities

	2021-03-15 Volume (cm³)	2021-03-15 Number of WMH	2021-10-04 Volume (cm³)	2021-10-04 Number of WMH	Volume change (cm³)
Disappearing	0.3	19	-	-	-0.3
Pre-Existing*	7.7	24	19.1	19	+11.4
New	-	-	0.3	3	+0.3
Total	8.0	43	19.4	22	+11.4

*The second time-point may include confluent lesions.

Overview Images

Follow-up scan

*The slices shown in the overview images are selected based on the largest new white matter hyperintensities. If there are no new white matter hyperintensities, the largest pre-existing white matter hyperintensities are shown.

Patient ID: Saige Brain is manufactured for DeepHealth by Quantib B. V. Page 1 of 2

Overview images

Contact us to learn more.

www.deephealth.com

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