



Neuroreader® 2.7 – Quick Reference Card

The Neuroreader® Report is a customizable and automated volumetric report, which can be used to guide clinical decision-making. The Neuroreader® Report features the volume of 83 brain volumes along with color coded overlay images that are valuable for quality assessment. It also features heat maps, a visual aid that highlights the affected areas of the brain for both physicians and patients. Furthermore, Neuroreader® 2.7 includes brain volume and longitudinal charts, which allow the clinicians to see an evaluation and progression of the patient's data over time. All features add value to the clinician's precision when reporting to the patients and gives the patients the most accurate results and treatment plans.

NEUROREADER®

REPORT

Analysis Date: 2022-Aug-01 11:07:16

Report Type: Neuroreader® Report

NR Upload ID: BrR_20220801_012

ID: Group DEMO

Name: Study

ID: Patient ID: 45536

Patient Name: Accession Number: 01-01-1

Birth Date: Male

Age: 72

Reference Head Size

The measured total intracranial volume (mTIV) 2118 mL

Left-Right Asymmetry Index

Structures	Asymmetry Index	NR Index*	Z-score	Percentile
Hippocampus	0.063918	11.64	0.77	77.81
Amygdala	-0.021099	1.92	0.13	55.03
Caudate	0.102133	15.84	1.04	85.13
Lateral Ventricle	0.109361	0.88	0.06	52.30
Pallidum	-0.013062	-8.09	-0.53	29.73
Putamen	0.016906	-1.56	-0.10	45.91
Thalamus	-0.12106	-26.54	-1.75	4.04
Ventral Diencephalon	0.000205	1.89	0.12	54.95
Cerebellum	0.002228	5.40	0.22	58.84
Frontal Lobe	-0.005513	-2.00	-0.19	44.77
Parietal Lobe	-0.023012	-7.58	-0.50	36.41
Occipital Lobe	0.035018	0.96	0.06	52.52
Temporal Lobe	-0.041678	-6.47	-0.43	33.50

Brain Volume Assessment

Structures	Color	Vol mL	Vol/mTIV in (%)	NR Index*	Z-score	Percentile
Whole Brain Matter	77.81	1107.24	52.29	-8.07	-0.53	29.78
Gray Matter	55.03	552.00	26.07	-7.31	-0.48	31.52
White Matter	1111	555.24	26.22	0.35	0.02	50.93

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GLUID: 0570002060471 Hardware profile 1C

NR 2.7.0

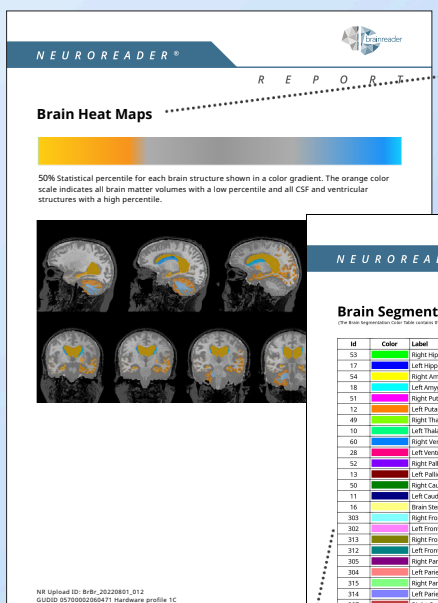
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Reference Head Size

This corresponds to the measured Total Intracranial Volume (mTIV) in mL. The mTIV/Reference Head Size is displayed separately from the other structures since it is used as the reference volume on which the statistical values are based.

Left-right Asymmetry Index

This table lists the Left-Right asymmetry index, Neuroreader® Index (NR Index), the Z-score, and the Percentile for all structures that are on both sides of the brain. You can order the Left-Right Asymmetry Index in a separate Asymmetry Report for Neuroreader® 2.7. In the customizable report you can also include all asymmetry volumes.



Brain Segmentation Color Table

The color table is used as a reference table for the segmentation shown in the Brain Volume Assessment table and in the Quality Assessment Overlay Images to help visualize the different volumes.

Brain Segmentation Color Table

Use this key to identify the color-coded brain structures shown in the segmentation overlay images. See Neuroreader® manual for more information.

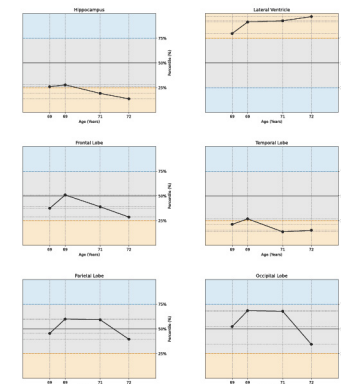
M	Color	Label
53	Blue	Right Hippocampus
17	Blue	Left Hippocampus
54	Yellow	Right Amygdala
18	Yellow	Left Amygdala
51	Pink	Right Putamen
12	Pink	Left Putamen
49	Green	Right Thalamus
10	Green	Left Thalamus
48	Blue	Right Ventral Diencephalon
28	Blue	Left Ventral Diencephalon
52	Purple	Right Pallidum
13	Purple	Left Pallidum
50	Orange	Right Caudate
11	Orange	Left Caudate
16	Red	Brain Stem
303	Light Blue	Right Frontal Lobe GM
302	Light Blue	Left Frontal Lobe GM
313	Light Blue	Right Frontal Lobe WM
312	Light Blue	Left Frontal Lobe WM
305	Light Blue	Right Parietal Lobe GM
304	Light Blue	Left Parietal Lobe GM
315	Light Blue	Right Parietal Lobe WM
314	Light Blue	Left Parietal Lobe WM
307	Light Blue	Right Occipital Lobe GM
306	Light Blue	Left Occipital Lobe GM
317	Light Blue	Right Occipital Lobe WM
316	Light Blue	Left Occipital Lobe WM
309	Light Blue	Right Temporal Lobe GM
308	Light Blue	Left Temporal Lobe GM
319	Light Blue	Right Temporal Lobe WM
318	Light Blue	Left Temporal Lobe WM
47	Light Blue	Right Cerebellar GM
8	Light Blue	Left Cerebellar GM
46	Light Blue	Right Cerebellar WM
7	Light Blue	Left Cerebellar WM
43	Light Blue	CSF (c-dural)
4	Light Blue	Right Lateral Ventricle
5	Light Blue	Left Lateral Ventricle

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Brain Heat Maps

Heat maps is a visual aid for patients and physicians that highlights the affected areas of the brain.

Longitudinal Charts



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Longitudinal Data

Shows brain development over several data points in time.