

NeuroQuant[®] Output

TRIAGE BRAIN ATROPHY REPORT

NeuroQuant[®] Output



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PATIENT INFORMATION

Patient ID:	Patient Name:	Sex: F	Age: 56
Accession Number:	Referring Physician:	Exam Date:	

MORPHOMETRY RESULTS

Intracranial Volume (ICV) (cm ³)	ICV Z-score		ICV Percentile		Cortical Brain Regions	LH Z-score	LH %	RH Z-score	RH %
1491.03	< -1.65		< 1		Frontal Lobe				
Brain Structure	LH Z-score	LH %	RH Z-score	RH %	Precentral	< -1.65	< 1	< -1.65	< 1
Total Cerebral White Matter ¹	< -1.65	1	< -1.65	2	Premotor	-0.51	30	< -1.65	< 1
Total Cerebral Grey Matter ²	< -1.65	< 1	< -1.65	< 1	Superior Frontal	< -1.65	< 1	< -1.65	< 1
Total Ventricle ³	< -1.65	< 1	< -1.65	< 1	Anterior Middle Frontal	-1.24	11	-0.97	16
Cerebellar White Matter	> 1.65	96	> 1.65	> 99	Parstriangularis	-0.42	34	-1.47	7
Cerebellar Gray Matter	-1.23	11	-0.89	19	Lateral Orbito Frontal	< -1.65	1	-1.02	15
Brainstem	-1.60	5	< -1.65	4	Parietal Lobe				
Thalamus	< -1.65	4	< -1.65	2	Inferior Parietal	< -1.65	< 1	< -1.65	< 1
Ventral Diencephalon	-0.70	24	-0.67	25	Superior Parietal	< -1.65	< 1	< -1.65	< 1
Hippocampus	< -1.65	< 1	< -1.65	< 1	Medial Parietal	< -1.65	< 1	< -1.65	< 1
Amygdala	< -1.65	< 1	< -1.65	< 1	Supra Marginal	< -1.65	< 1	< -1.65	< 1
Basal Ganglia					Primary Sensory	< -1.65	< 1	< -1.65	< 1
Putamen	< -1.65	3	-1.64	5	Primary Motor	< -1.65	< 1	< -1.65	< 1
Caudate	0.16	56	0.61	73	Occipital Lobe				
Nucleus Accumbens	< -1.65	< 1	0.31	62	Medial Occipital	< -1.65	< 1	< -1.65	< 1
Pallidum	< -1.65	< 1	< -1.65	< 1	Lateral Occipital	< -1.65	< 1	< -1.65	< 1
					Pars Orbitalis	-1.06	14	-0.42	34
					Temporal Lobe				
					Fusiform	< -1.65	2	< -1.65	< 1
					Anterior Medial Temporal	< -1.65	< 1	< -1.65	< 1
					Posterior Medial Temporal	-0.96	17	-0.88	19
					Temporal Pole	< -1.65	< 1	< -1.65	< 1
					Transverse + Superior Temporal	< -1.65	< 1	< -1.65	< 1
					Posterior Superior Temporal Sulcus	-0.36	36	< -1.65	4
					Middle Temporal	< -1.65	< 1	< -1.65	< 1
					Inferior Temporal	< -1.65	< 1	< -1.65	< 1
					Limbic Lobe				
					Caudal + Rostral Ant Cingulate	< -1.65	< 1	< -1.65	< 1
					Isthmus + Post Cingulate	< -1.65	< 1	< -1.65	< 1

1) Total White Matter excludes Cerebellum
2) Total Grey Matter excludes Cerebellum
3) Total Ventricle includes Lateral Ventricle, 3rd Ventricle and 4th Ventricle
4) Medial Occipital includes Cuneus, Lingual, and Pericalcarine
** Normative values are for reference purposes.

Report name and clinic site information

Patient demographic information, with referring physician and exam date

Table detailing right and left values for Z-score and normative percentile of ICV of 39 structures

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- Intracranial Volume (ICV)
 - Total Volume in cc or cm³, ICV Z-score and normative percentile
- Detailed information table for 10 brain structures, basal ganglia, frontal lobe, parietal lobe, occipital lobe, temporal lobe and limbic lobe
 - Left Z-score and normative percentile
 - Right Z-score and normative percentile
- Z-score
 - A positive Z-score indicates a value above the mean, while a negative Z-score indicates a value below the mean
- Normative Percentile
 - As the structure relate to a normative population of healthy individuals with the same imaging parameters

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- The NeuroQuant report provides volume information for structures for confidence and evidence in the assessment of neurodegenerative diseases

■ Sample case

- 56 year old female
- Atrophy in the parietal and temporal lobe
- Cerebral white and gray matter and several other brain structures show atrophy
 - Brain stem
 - Right Thalamus
 - Ventral diencephalon
 - Hippocampus
 - Amygdala
- Atrophy in the basal ganglia
- Atrophy in the right premotor frontal lobe

- Together this is evidence of an atrophied, ageing brain

Thank You

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