

TRAUMATIC BRAIN INJURY & NEUROQUANT®

Traumatic Brain Injury (TBI)

TBI or Brain Trauma affects a person who experiences a traumatic event or condition(s) including:

- Foreign objects pierce the skull
- A severe fall or blow to the head
- Traffic accident
- Assault
- Head is struck by or against something

It is evaluated using:

- = MRI
- PET
- CT

Brain trauma may result in substantial brain volume loss, which may lead to many symptoms including cognitive ability:

- In children, TBI may disrupt developmental trajectories
- In adults, volume loss from a brain injury adds to age-related volume loss, potentially resulting in an acceleration of age-related decline

Fast, Accurate, Automated Quantitative MRI Analysis with NeuroQuant[®]

- Identify evidence of neurodegeneration
- Improve ongoing evaluation with longitudinal tracking
- Use quantitative measurements to aid clinical assessment and monitor disease progression



The NeuroQuant® Difference

- The first FDA cleared & CE marked solution
- Unique, patented Dynamic Atlas[™] technology increases segmentation accuracy across a broad age range from 3 to 100 years
- Fully automated, consistent and reproducible results
- Volumetrics of 72 cortical and subcortical structures
- Normative percentiles of each volume with color-coding for easy identification of brain structures below 2 standard deviations from the mean (red cells in table).
- Standardized, proven 3D T1 non-contrast sagittal MRI
- Compatible with GE, Philips and Siemens (1.5T and 3.0T)



Age Related Atrophy Hippocampal and ventricle volume measurements compared to age and gender norms



Hippocampal Volume Asymmetry Hippocampal volume left/right asymmetry measurements compared to age and gender norms



Get Precise Volumetric Data and Reports in Minutes

Multi Structure Atrophy

Total brain volume, white and gray matter, thalamus and more measurements compared to age and gender norms



Triage Brain Atrophy Multiple volume measurements sorted by lobe and brain structures



Brain Development Forebrain parenchyma and lateral ventricle volumes, with norms 3 years and up

Unleash the Power of NeuroQuant®

NeuroQuant is breakthrough software designed to make quantitative MRI measurement a routine part of clinical practice. NeuroQuant automatically segments and measures volumes of brain structures and compares them to our unique normative database ranging from ages 3 to 100. Reports contain absolute and relative volumes of brain structures in a DICOM-compatible format.

Triage Brain At PATIENT INFORMATION Patient ID:	trophy atient Na		rt	Sex: Age: Referr	ing Physic	Ve	858) 459- 9700 Arsion 3.0.0	distinguis
SCAN INFORMATION								Segment
Scan Date:		A	Accession Number:					substruc
MORPHOMETRY RESU	LTS							 Volumetr
000								
12			Contraction of the second seco					 Age-mate percentil
			The second				() III	 Values be standard from the
			A B			\$ \$ f		Fully auto
	Total V	olumo				Deventiles		
Structure	Total V (cm		Percentile	Cortical Brain Regions	Left	Percentiles	Total	
Intracranial Volume	(cm 157	13) 79	78		Left 99	Percentiles Right 19	Total 89	volumetr
Intracranial Volume Whole Brain	(cm 157 128	13) 79 86	78 99	Cortical Brain Regions Frontal Lobes Superior Frontal	the second s	Right		volumetr and anal
Intracranial Volume	(cm 157	13) 79 36 14	78 99 99	Frontal Lobes Superior Frontal Middle Frontal	99 99 76	Right 19 31 54	89 82 68	volumetr and anal
Intracranial Volume Whole Brain	(cm 157 128 114	13) 79 36 14 Percenti	78 99 99	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal	99 99 76 99	Right 19 31 54 9	89 82 68 88	volumetr
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes	(cm 157 128 114 Left	13) 79 76 78 79 79 79 79 79 79 79 79 79 79 79 79 79	78 99 99 les Total	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal	99 99 76 99 53	Right 19 31 54 9 14	89 82 68 88 31	volumetr and anal
Intracranial Volume Whole Brain Forebrain Parenchyma	(cm 157 128 114	13) 79 36 14 Percenti	78 99 99	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Medial Orbitofrontal	99 99 76 99 53 24	Right 19 31 54 9 14 40	89 82 68 88 31 33	volumetr and anal • Adds val measure
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter	(cm 157 128 114 Left 98	13) 79 36 14 Percentil Right 99	78 99 99 les Total 99	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Medial Orbitofrontal Paracentral	99 99 76 99 53	Right 19 31 54 9 14	89 82 68 88 31	volumetr and anal • Adds val measure
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter Cortical Gray Matter Ventricles Cerebral WM	(cm 157 128 114 Left 98 99	Percentil Right 99 19	78 99 99 ees Total 99 99 96	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Medial Orbitofrontal	99 99 76 99 53 24 95 99 99 99	Right 19 31 54 9 14 40 80	89 82 68 88 31 33 92 99 99 93	volumetr and anal • Adds val measure in the as
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter Cortical Gray Matter Ventricles Cerebral WM Hypointensities*	Left 98 99 6	Percentil Right 99 14	78 99 99 Ies 70tal 99 96 11	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Medial Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory	99 99 76 99 53 24 95 99 99 99 99	Right 19 31 54 9 14 40 80 14 19 46	89 82 68 88 31 33 92 99 93 98	volumetr and anal • Adds val measure
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter Cortical Gray Matter Ventricles Cerebral WM	Left 98 99 6	Percentil Right 99 14	78 99 99 Ies 70tal 99 96 11	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Medial Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory Medial Parietal	99 99 76 99 53 24 95 99 99 99 99 99 99	Right 19 31 54 9 14 40 80 14 19 46 45	89 82 68 88 31 33 92 99 93 98 91	volumetr and anal • Adds val measure in the ass neurodes
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter Cortical Gray Matter Ventricles Cerebral WM Hypointensities* Subcortical Structures	(cm 157 128 114 Left 98 99 6 99 6 99	Percentil Right 99 19 20 11	78 99 99 ess 99 99 96 11 11 99 96 11 10 10 17	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Medial Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory Medial Parietal Superior Parietal	99 99 76 99 53 24 95 99 99 99 99 99 99 99 99 99	Right 19 31 54 9 114 40 80 14 19 46 45 9	89 82 68 88 31 33 92 99 93 99 93 98 91 29	 volumetr and analy Adds val measure in the asy neurodeg and increasion
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter Cortical Gray Matter Ventricles Cerebral WM Hypointensities* Subcortical Structures Cerebellar White Matter Brainstem	(cm 157 128 114 98 99 6 99 6 99 6 99	Percentil Right 99 10 20 11 18 -	78 99 99 les Total 99 96 11 11 99 90 10 10 17 67	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory Medial Parietal Superior Parietal Inferior Parietal	99 99 76 99 53 24 95 99 99 99 99 99 99 99 63 89	Right 19 31 54 9 14 40 80 114 19 46 45 9 42	89 82 68 88 31 33 92 99 93 98 91	volumetr and anal • Adds val measure in the ass neurodes
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter Cortical Gray Matter Ventricles Cerebral WM Hypointensities* Subcortical Structures Cerebellar White Matter Cerebellar Gray Matter Brainstem Thalamus	(cm 157 128 114 98 99 6 99 6 99 6 99 6 99 10 10 16 - 53	P Right 86 8 Percenti 99 19 20 11 11 18 - 87 87	78 99 99 Idea 99 10 17 67 75	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Medial Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory Medial Parietal Superior Parietal	99 99 76 99 53 24 95 99 99 99 99 99 99 99 99 99	Right 19 31 54 9 114 40 80 14 19 46 45 9	89 82 68 88 31 33 92 99 99 93 98 91 29 71	 volumetr and analy Adds val measure in the asy neurodeg and increasion
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter Cortical Gray Matter Ventricles Cerebral WM Hypointensities* Subcortical Structures Cerebellar Gray Matter Brainstem Thalamus Ventral Diencephalon	(cm 157 128 114 98 99 6 99 6 99 6 99	Percentil Right 99 10 20 11 18 -	78 99 99 les Total 99 96 11 11 99 90 10 10 17 67	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Medial Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory Medial Parietal Superior Parietal Inferior Parietal Supramarginal Occipital Lobes Medial Occipital	99 99 99 76 99 53 24 95 99 99 99 99 99 63 89 99 40 27	Right 19 31 54 9 14 40 80 14 19 46 45 9 42 22 10 3	89 82 68 88 31 33 92 99 93 98 91 29 71 29 71 99 92 21 0	 volumetr and analy Adds val measure in the asy neurodeg and increasing patient contents
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter Cortical Gray Matter Ventricles Cerebral WM Hypointensities* Subcortical Structures Cerebellar White Matter Cerebellar Gray Matter Brainstem Thalamus Ventral Diencephalon Basal Ganglia	(cm 157 128 114 98 99 6 99 6 99 6 99 6 99 10 10 16 - 53	P P 79 36 86 14 Percentil Right 99 19 20 11 11 18 - 87 80 -	78 99 99 1es 7otal 99 96 111 99 96 111 10 17 67 67 75 77	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory Medial Parietal Superior Parietal Inferior Parietal Supramarginal Occipital Lobes Medial Occipital Lateral Occipital	99 99 99 76 99 53 24 95 99 99 99 99 99 99 99 99 63 89 99 40 27 52	Right 19 31 54 9 14 40 80 14 9 14 40 80 14 9 46 45 9 42 22 10 3	89 82 68 88 31 33 92 99 93 98 91 29 71 99 22 10 42	 volumetr and analy Adds val measure in the asy neurodeg and incre patient c Provides
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter Cortical Gray Matter Ventricles Cerebral WM Hypointensities* Subcortical Structures Cerebellar Gray Matter Brainstem Thalamus Ventral Diencephalon	(cm 157 128 114 98 99 6 99 6 99 6 99 6 99 10 10 16 - 53	P Right 86 8 Percenti 99 19 20 11 11 18 - 87 87	78 99 99 Idea 99 10 17 67 75	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory Medial Parietal Superior Parietal Superior Parietal Superior Parietal Superior Parietal Medial Occipital Decipital Lobes Medial Occipital Lateral Occipital Temporal Lobes	99 99 99 76 99 53 24 95 99 99 99 99 99 99 99 99 63 89 99 40 27	Right 19 31 54 9 14 40 80 14 19 46 45 9 42 22 10 33 53	89 82 68 88 31 33 92 99 93 98 91 29 71 29 71 99 92 21 0	 volumetr and analy Adds val measure in the asy neurodeg and incre patient c Provides
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter Cortical Gray Matter Ventricles Cerebral WM Hypointensities* Subcortical Structures Cerebellar White Matter Brainstem Thalamus Ventral Diencephalon Basal Ganglia Putamen	(cm 157 128 114 98 99 6 99 6 99 6 99 6 99 10 10 16 - 53	Pip Pip 79 36 14 99 14 99 19 20 1 11 18 - 87 80 15 15	78 99 99 1es 7otal 99 96 111 99 96 111 10 17 67 67 75 77	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory Medial Parietal Superior Parietal Superior Parietal Superior Parietal Superior Parietal Medial Occipital Decipital Lobes Medial Occipital Lateral Occipital Temporal Lobes	99 99 99 76 99 53 24 95 99 99 99 99 99 99 99 99 63 89 99 40 27 52	Right 19 31 54 9 14 40 80 14 9 14 40 80 14 9 46 45 9 42 22 10 3	89 82 68 88 31 33 92 99 93 98 91 29 71 99 22 10 42	 volumetr and analy Adds val measure in the asy neurodeg and increasing patient control Provides reproduce
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter Cortical Gray Matter Ventricles Cerebral WM Hypointensities* Subcortical Structures Cerebellar White Matter Cerebellar Gray Matter Brainstem Thalamus Ventral Diencephalon Basal Ganglia Putamen Caudate Nucleus Accumbens Pallidum	Image: constraint of the second sec	P 99 19 36 14 Percentil Right 99 19 20 11 11 18 - 87 80 15 17 96 25 25	78 99 99 International states of the state	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory Medial Parietal Superior Parietal Superior Parietal Superior Parietal Cocipital Lobes Medial Occipital Lateral Occipital Temporal Lobes Transverse Temporal + Superior Superior	99 99 99 76 99 53 24 95 99 99 99 99 99 63 89 99 40 27 52 99 99 99	Right 19 31 54 9 14 40 80 14 19 46 45 9 42 22 10 3 53 43	89 82 68 88 31 33 92 99 93 98 91 29 71 99 22 10 42 99 99	 volumetr and analy Adds val measure in the asy neurodeg and incre patient c Provides reproduce volume i
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter Cortical Gray Matter Ventricles Cerebelal WM Hypointensities* Subcortical Structures Cerebellar White Matter Brainstem Thalamus Ventral Diencephalon Basal Ganglia Putamen Caudate Nucleus Accumbens Pallidum Cingulate	Image: constraint of the second sec	i i ig i i i i i i i i i i i i i i i i i i i i </td <td>78 99 99 les 70tal 99 10 11 99 10 17 67 75 77 77 97 67 75 77 97 6 797 97 6 797</td> <td>Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory Medial Parietal Superior Parietal Inferior Parietal Superior Parietal Supramarginal Occipital Lobes Medial Occipital Lateral Occipital Temporal Lobes Transverse Temporal + Superior Temporal Posterior Superior</td> <td>99 99 99 99 99 53 24 95 99 99 99 99 99 63 89 99 40 27 52 99 99 99 99 99</td> <td>Right 19 31 54 9 14 40 80 14 19 46 45 9 42 22 10 3 53 43 4</td> <td>89 82 68 88 31 33 92 99 93 98 91 29 71 99 22 10 42 99 99 99 99 99 99</td> <td> volumetr and analy Adds val measure in the asy neurodeg and increasing patient control Provides reproduce </td>	78 99 99 les 70tal 99 10 11 99 10 17 67 75 77 77 97 67 75 77 97 6 797 97 6 797	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory Medial Parietal Superior Parietal Inferior Parietal Superior Parietal Supramarginal Occipital Lobes Medial Occipital Lateral Occipital Temporal Lobes Transverse Temporal + Superior Temporal Posterior Superior	99 99 99 99 99 53 24 95 99 99 99 99 99 63 89 99 40 27 52 99 99 99 99 99	Right 19 31 54 9 14 40 80 14 19 46 45 9 42 22 10 3 53 43 4	89 82 68 88 31 33 92 99 93 98 91 29 71 99 22 10 42 99 99 99 99 99 99	 volumetr and analy Adds val measure in the asy neurodeg and increasing patient control Provides reproduce
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter Cortical Gray Matter Ventricles Cerebelal WM Hypointensities* Subcortical Structures Cerebellar White Matter Cerebellar Gray Matter Brainstem Thalamus Ventral Diencephalon Basal Ganglia Putamen Caudate Nucleus Accumbens Pallidum Cingulate Anterior Cingulate	Image: constraint of the second sec	Pay 19 36 14 Percentil 99 19 20 11 18 - 87 80 15 17 96 25 99 92	78 99 99 les 99 91 99 10 11 99 67 75 77 67 77 97 97 97 97 97 97 97 97 97 97 97 97 97 97 97 97 97 97 93	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory Medial Parietal Superior Parietal Inferior Parietal Supramarginal Occipital Lobes Medial Occipital Lateral Occipital Lateral Occipital Transverse Temporal + Superior Superior Temporal Sulcus Middle Temporal	99 99 99 99 93 99 53 24 95 99 99 99 99 99 99 63 89 99 40 27 52 99	Right 19 31 54 9 14 40 80 14 19 46 45 9 42 22 10 33 53 43 43 85	89 82 68 88 31 33 92 99 93 98 91 29 71 99 22 10 42 99 99 99 99 89	 volumetr and analy Adds val measure in the asy neurodeg and incre patient c Provides reproduce volume i with adv
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter Cortical Gray Matter Ventricles Cerebral WM Hypointensities* Subcortical Structures Cerebellar White Matter Cerebellar Gray Matter Brainstem Thalamus Ventral Diencephalon Basal Ganglia Putamen Caudate Nucleus Accumbens Pallidum Cingulate Anterior Cingulate	Image: constraint of the second sec	iii) iiii) ig iiii) ig iiii) ig iiii) ig iiii) ig iiii) ig iiii) iiii) iiii) iiii) iiii) iiii) iiii) iiii) iiii) iiii) iiiii) iiii) iiii) iiii) iiiii) iiii) iiiii) iiii) iiiii) iiii) iiiii) iiii) iiiii) iiii) iiiiiiiiiiiiii) iiii) iiiii) iiii) iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	78 99 99 les 99 99 99 99 99 99 99 99 99 99 99 99 99 90 91 11 99 10 17 67 77 97 6 97 6 79 93 75	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory Medial Parietal Superior Parietal Inferior Parietal Supramarginal Occipital Lobes Medial Occipital Lateral Occipital Lateral Occipital Transverse Temporal + Superior Temporal Posterior Superior Temporal Sulcus Middle Temporal Inferior Temporal	99 99 99 99 53 24 95 99 99 99 99 99 99 99 63 89 99 40 27 52 99 99 99 99 99 89 99 87 98	Right 19 31 54 9 14 40 80 14 19 46 45 9 42 22 10 33 53 43 4 855 6	89 82 68 88 31 33 92 99 93 98 91 29 71 99 22 10 42 99 99 99 99 66	 volumetr and analy Adds val measure in the asy neurodeg and incre patient c Provides reproduce volume i with adv
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter Cortical Gray Matter Ventricles Cerebelal WM Hypointensities* Subcortical Structures Cerebellar White Matter Cerebellar Gray Matter Brainstem Thalamus Ventral Diencephalon Basal Ganglia Putamen Caudate Nucleus Accumbens Pallidum Cingulate Anterior Cingulate	Image: constraint of the second sec	Pay 19 36 14 Percentil 99 19 20 11 18 - 87 80 15 17 96 25 99 92	78 99 99 les 99 91 99 10 11 99 67 75 77 67 77 97 97 97 97 97 97 97 97 97 97 97 97 97 97 97 97 97 97 93	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory Medial Parietal Superior Parietal Superior Parietal Superior Parietal Superior Parietal Cocipital Lobes Medial Occipital Lateral Occipital Lateral Occipital Temporal Lobes Transverse Temporal + Superior Temporal Posterior Superior Temporal Sulcus Middle Temporal Inferior Temporal Fusiform	99 99 99 99 93 99 53 24 95 99 99 99 99 99 99 63 89 99 40 27 52 99	Right 19 31 54 9 14 40 80 14 19 46 45 9 42 22 10 33 53 43 43 85	89 82 68 88 31 33 92 99 93 98 91 29 71 99 22 10 42 99 99 99 99 89	 volumetr and analy Adds val measure in the asy neurodeg and incre patient c Provides reproduce volume i with adv technolo
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter Cortical Gray Matter Ventricles Cerebral WM Hypointensities* Subcortical Structures Cerebellar White Matter Gerebellar Gray Matter Brainstem Thalamus Ventral Diencephalon Basal Ganglia Putamen Caudate Nucleus Accumbens Pallidum Cingulate Anterior Cingulate Isthmus Cingulate	(cm 157 128 114 Left 98 99 6 99 6 99 6 99 10 16 - 53 72 3 1 96 90 85 90 84 40	isite isite 19 56 14 99 14 99 19 20 1 11 18 - 87 80 15 17 96 25 69 92 61 8	78 99 99 les 99 99 99 99 99 99 99 99 99 99 99 99 99 90 91 11 99 10 17 67 77 97 6 97 6 79 93 75	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory Medial Parietal Superior Parietal Inferior Parietal Supramarginal Occipital Lobes Medial Occipital Lateral Occipital Lateral Occipital Transverse Temporal + Superior Temporal Posterior Superior Temporal Sulcus Middle Temporal Inferior Temporal	99 99 99 76 99 53 24 95 99	Right 19 31 54 9 14 40 80 14 19 46 45 9 42 22 10 3 33 53 43 85 6 59	89 82 68 88 31 33 92 99 93 98 91 29 71 99 22 10 42 99 80 66 98	 volumetr and analy Adds val measure in the asy neurodeg and incre patient c Provides reproduce volume i with adv
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter Cortical Gray Matter Ventricles Cerebral WM Hypointensities* Subcortical Structures Cerebellar White Matter Cerebellar Gray Matter Brainstem Thalamus Ventral Diencephalon Basal Ganglia Putamen Caudate Nucleus Accumbens Pallidum Cingulate Anterior Cingulate	(cm 157 128 114 Left 98 99 6 99 6 99 6 99 10 16 - 53 72 3 1 96 90 85 90 84 40	isite isite 19 56 14 99 14 99 19 20 1 11 18 - 87 80 15 17 96 25 69 92 61 8	78 99 99 les 99 99 99 99 99 99 99 99 99 99 99 99 99 90 91 11 99 10 17 67 77 97 6 97 6 79 93 75	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory Medial Parietal Superior Temporal Interior Temporal Inferior Temporal Inferior Temporal Fusiform Parahippocampal Entorhinal Cottex Temperal Pole	99 99 99 99 53 24 95 99 99 99 99 99 99 99 99 63 89 99 40 27 52 99 99 99 99 99 87 98 99 78 95	Right 19 31 54 9 14 40 80 14 19 46 45 9 42 22 10 3 33 53 43 85 6 59 28 80 63	89 82 68 88 31 33 92 99 93 98 91 29 71 99 22 10 42 99 99 99 99 99 66 98 80 83 88	 volumetr and analy Adds val measure in the asy neurodeg and incre patient c Provides reproduce volume i with adv technolo Volumetr
Intracranial Volume Whole Brain Forebrain Parenchyma Total Volumes Cerebral White Matter Cortical Gray Matter Ventricles Cerebral WM Hypointensities* Subcortical Structures Cerebellar White Matter Gerebellar Gray Matter Brainstem Thalamus Ventral Diencephalon Basal Ganglia Putamen Caudate Nucleus Accumbens Pallidum Cingulate Anterior Cingulate Isthmus Cingulate	Image: constraint of the second sec	iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	78 99 99 99 99 99 99 99 96 11 99 96 111 99 96 111 97 67 77 11 97 67 77 1 97 6 6 79 93 75 21 </td <td>Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory Medial Parietal Superior Parietal Inferior Parietal Supramarginal Occipital Lobes Medial Occipital Lateral Occipital Lateral Occipital Transverse Temporal Transverse Temporal + Superior Temporal Posterior Superior Temporal Sulcus Middle Temporal Inferior Temporal Inferior Temporal Entorhinal Cottex</td> <td>99 99 99 99 99 53 24 95 99 99 99 99 99 99 99 63 89 99 40 27 52 99 99 99 99 99 87 98 99 99 78</td> <td>Right 19 31 54 9 14 40 80 14 19 46 45 9 42 22 10 33 53 43 43 85 6 59 28 80</td> <td>89 82 68 88 31 33 92 99 93 98 91 29 71 99 22 10 42 99 80 80 83</td> <td> volumetr and analy Adds val measure in the asy neurodeg and incre patient c Provides reproduce volume i with adv technolo </td>	Frontal Lobes Superior Frontal Middle Frontal Inferior Frontal Lateral Orbitofrontal Paracentral Primary Motor Parietal Lobes Primary Sensory Medial Parietal Superior Parietal Inferior Parietal Supramarginal Occipital Lobes Medial Occipital Lateral Occipital Lateral Occipital Transverse Temporal Transverse Temporal + Superior Temporal Posterior Superior Temporal Sulcus Middle Temporal Inferior Temporal Inferior Temporal Entorhinal Cottex	99 99 99 99 99 53 24 95 99 99 99 99 99 99 99 63 89 99 40 27 52 99 99 99 99 99 87 98 99 99 78	Right 19 31 54 9 14 40 80 14 19 46 45 9 42 22 10 33 53 43 43 85 6 59 28 80	89 82 68 88 31 33 92 99 93 98 91 29 71 99 22 10 42 99 80 80 83	 volumetr and analy Adds val measure in the asy neurodeg and incre patient c Provides reproduce volume i with adv technolo

The power of NQ is distinguishing abnormal from normal:

- Segmentation of 72 brain substructures
- Volumetric measurements
- Age-matched normative percentiles
- Values below 5% represent a 2 standard deviation departure from the mean.
- Fully automated quantitative volumetric image segmentation and analysis
- Adds valuable quantitative measurements to aid in the assessment of neurodegenerative conditions and increases the quality of patient care
- Provides standardized and reproducible quantitative brain volume information with advanced Dynamic Atlas technology
- Volumetrics and percentiles for whole brain, white matter, gray matter, and ventricles.



Scheduling: PI_Schedulers@simonmed.com Scheduling Fax: 415-433-3536 Billing & Medical Records: attorney@simonmed.com Billing & Medical Records Fax: 602-302-5960

Cortechs Labs | cortechslabs.com

