



NeuroQuant®: Talking to your Doctor about Memory Changes and Memory Loss

Preparing for a doctor's visit helps you to get the best care possible for you or your loved one. Below you will find some information about memory loss and its possible causes, including some helpful information on discussing NeuroQuant with your physician.

NeuroQuant is a FDA cleared software that helps physicians detect and measure changes in brain anatomy. Physicians use NeuroQuant when making clinical assessments of memory changes and memory loss, which may be caused by changes in brain anatomy, such as neurodegeneration and brain shrinkage (atrophy).

Physicians use several evaluation tools to make an accurate assessment of memory loss in patients. One option is having a magnetic resonance imaging (MRI) scan of your brain taken. The NeuroQuant analysis is part of a physician prescribed MRI procedure.

NeuroQuant uses the images from the MRI scan to measure the volume of certain brain structures, which are important in the assessment of memory loss causes. A NeuroQuant report (see sample below) is then sent directly to your physician.

Possible Causes of Memory Changes in Aging

Brain Atrophy: Minimal		
Normal aging	Medications	Alcohol
Depression	Sleep Problems	Anxiety

Brain Atrophy: Excessive	
Alzheimer's disease	Other Neurodegenerative Disorders

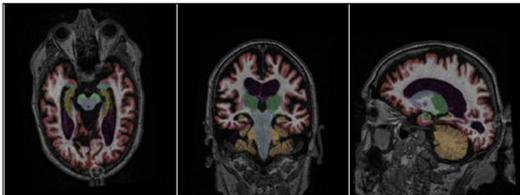
NeuroQuant® Age Related Atrophy Report

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PATIENT INFORMATION

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

MORPHOMETRY RESULTS

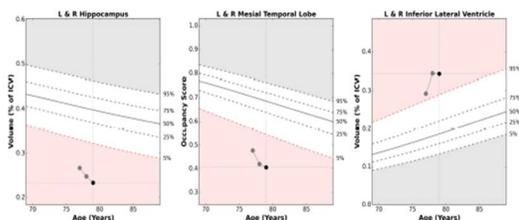


Colored brain images captured from MRI

Hippocampal Occupancy Score (HOC)			
Brain Structure	Volume (cm ³)	% of ICV (5%-95% Normative Percentile*)	Normative Percentile*
Hippocampi	4.46	0.23 (0.32-0.46)	< 1
Lateral Ventricles	125.25	6.55 (1.85-4.98)	> 99
Inferior Lateral Ventricles	6.54	0.34 (0.13-0.29)	99

Detailed table of brain structure measurements

AGE-MATCHED REFERENCE CHARTS*



Reference charts that display brain structures as compared to healthy individuals

*Charts and normative values are provided for reference purposes only.

Discussing the Benefits of NeuroQuant with Your Physician

- NeuroQuant can help physicians evaluate if there is **volume change** of certain brain structures (Atrophy of the hippocampus and increased ventricles are commonly seen in Alzheimer's and other neurodegenerative disorders.)
- In cases where Alzheimer's is suspected, NeuroQuant can be used for **ongoing tracking** by taking an **initial measurement** and then a comparing it to a **follow-up measurement** (taken at a later date) to see if the brain structure volume has changed and at what rate
- NeuroQuant can also help in the **evaluation of non-Alzheimer's dementia** and to **rule out Alzheimer's to focus on other causes** of memory loss

Early Detection in Memory Changes Benefits Physicians, Patients and Caregivers

- Allows for **exploration and evaluation** of various treatment options
- Less anxiety from a better **understanding** of what is happening
- Able to play an **active role** in disease management and make **informed decisions**



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