

NeuroQuant[®] Output

AGE RELATED ATROPHY REPORT

NeuroQuant[®] Output

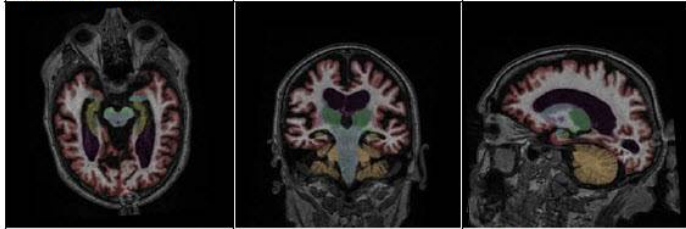


CorTechs Labs, Inc.
4690 Executive Dr., Suite 250
San Diego, CA 92121
Tel: (858) 459-9700

PATIENT INFORMATION

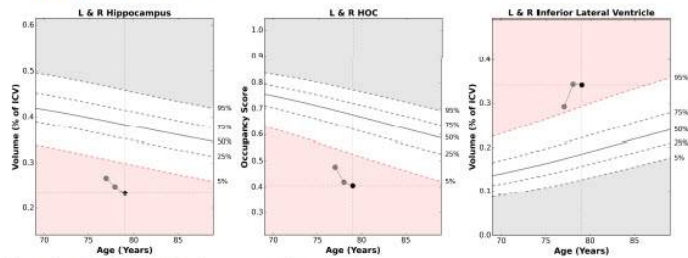
Patient ID:	Patient Name:	Sex: M	Age: 79
Accession Number:	Referring Physician:	Exam Date:	

MORPHOMETRY RESULTS



Hippocampal Occupancy Score (HOC)		0.41	
Brain Structure	Volume (cm ³)	% of ICV (5%-95% Normative Percentile ^a)	Normative Percentile ^a
Hippocampi	4.46	0.23 (0.30-0.46)	< 1
Lateral Ventricles	125.25	6.55 (1.80-4.94)	> 99
Inferior Lateral Ventricles	6.54	0.34 (0.13-0.29)	99

AGE-MATCHED REFERENCE CHARTS^a



^aCharts and normative values are provided for reference purposes only.

The Age Related Atrophy NeuroQuant report provides:

- Brain images aligned to atlas
- Consistent presentation over time
- Simplified identification of brain volumes and changes
- Slices consistent across time points

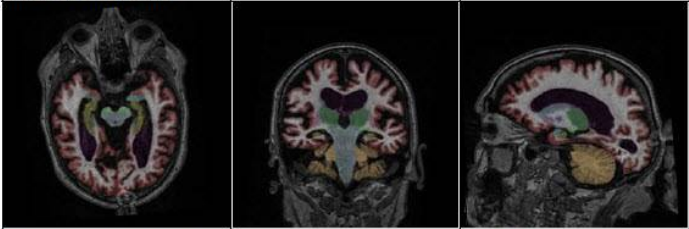
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Age Related Atrophy Report

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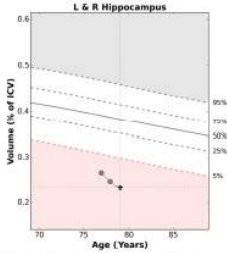
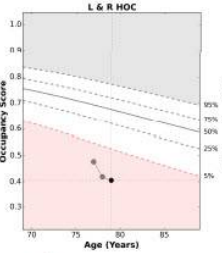
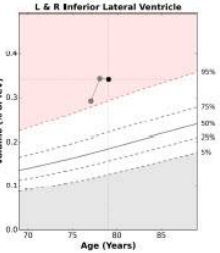
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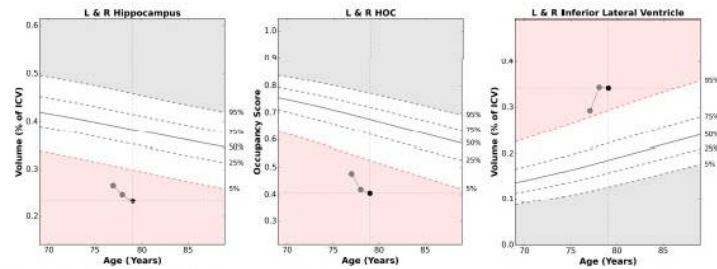
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- } Report name and clinic site information
- } Patient demographic information, with referring physician and exam date
- } Axial, coronal and sagittal brain images
- } Table detailing hippocampal occupancy score, as well as hippocampus, lateral ventricles and inferior lateral ventricles (temporal horn) in raw volume, intracranial volume (ICV) percentage and normative percentile
- } Age-matched reference charts for hippocampus, inferior lateral ventricles, and hippocampal occupancy score

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AGE-MATCHED REFERENCE CHARTS[§]



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- Hippocampal occupancy score (HOC)
 - A ratio of hippocampal volume to the sum of the hippocampal and ILV volumes in each hemisphere separately
 - An estimate of medial temporal lobe atrophy based on inferior lateral ventricle expansion

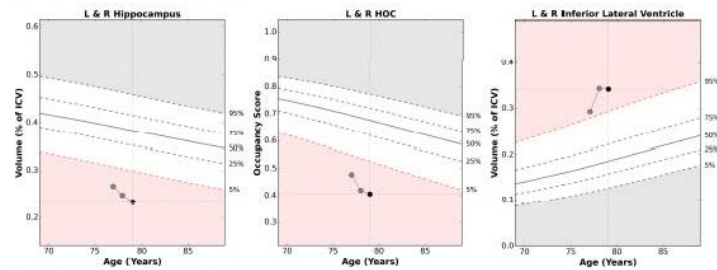
- Detailed information table for hippocampi, lateral ventricles and inferior lateral ventricles
 - Percent of Intracranial Volume (% of ICV)
 - Structures as the a related to the size of the head
 - Normative Percentile
 - As the structure relate to a normative population of healthy individuals with the same imaging parameters

- Normative Reference Charts
 - Displays normative percentile in visual form
 - X-axis is Age (years) and Y-axis is Volume (% of ICV)

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Hippocampal Occupancy Score (HOC)		0.41	
Brain Structure	Volume (cm ³)	% of ICV (5%-95% Normative Percentile [†])	Normative Percentile [‡]
Hippocampi	4.46	0.23 (0.30-0.46)	< 1
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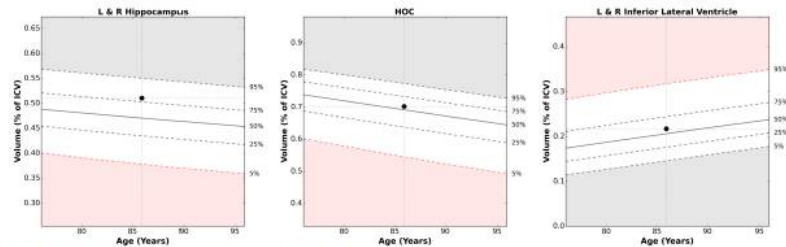
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- The NeuroQuant report provides volume information for structures for confidence and evidence in the assessment of neurodegenerative diseases
- Sample Case 1
 - 79 Year old male, with 3 time points starting at 76 years of age
 - Hippocampus is well outside 2 standard deviations from the normative database
 - The inferior lateral ventricles are well outside 2 standard deviations from the normative database
 - The hippocampal occupancy score (HOC) is well outside 2 standard deviations from the normative database
- Together this is evidence of an increasingly atrophied brain

NeuroQuant[®] Output

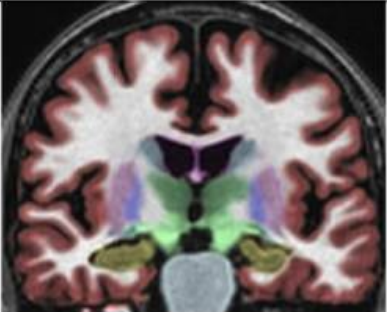
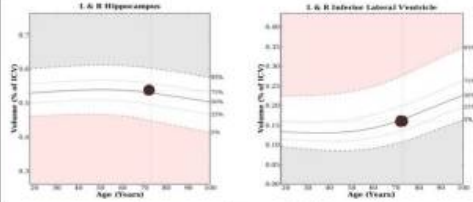
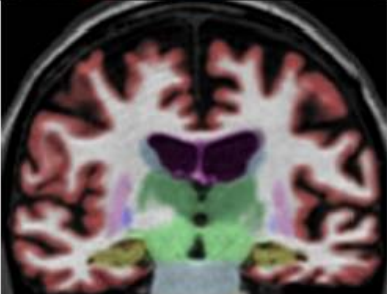
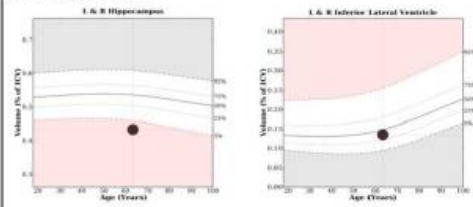
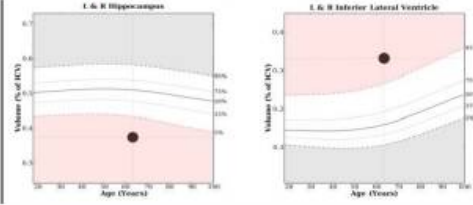
Hippocampal Occupancy (%)	56		
Brain Structure	Volume (cm ³)	% of ICV (5%-95% Normative Percentile*)	Normative Percentile*
Hippocampi	8.15	0.51 (0.38-0.55)	80
Lateral Ventricles	37.72	2.36 (2.12-5.47)	14
Inferior Lateral Ventricles	3.46	0.22 (0.15-0.32)	59

AGE-MATCHED REFERENCE CHARTS*

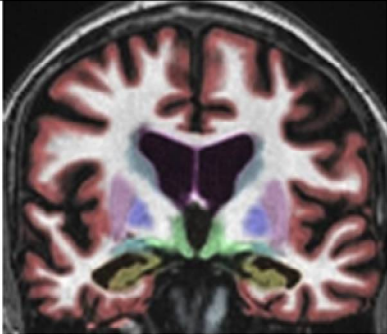
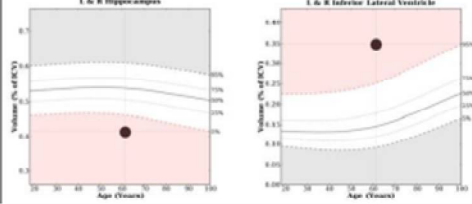
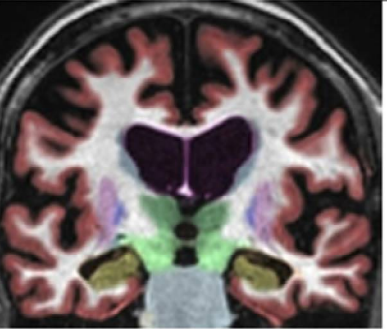
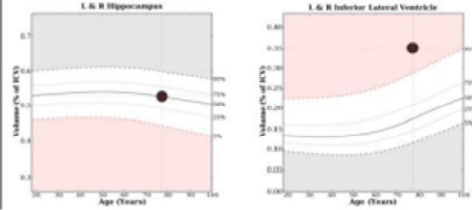


- Sample Case 2
 - 82 year old male
 - Hippocampus is well within 2 standard deviations from the normative database
 - The inferior Lateral Ventricle are also with the norm
 - The hippocampal occupancy score (HOC) is within the norm
- Together this is evidence of an normal, healthy ageing brain

NeuroQuant[®] Output

Example Segmented MRI	Example vMRI findings	Hippocampus	Temporal Horn	Lateral Ventricle	Interpretation																
	<table border="1"> <thead> <tr> <th>Brain Structure</th> <th>Volume (cm³)</th> <th>% of ICV (5%-95% Normative Percentile*)</th> <th>Normative Percentile*</th> </tr> </thead> <tbody> <tr> <td>Hippocampi</td> <td>8.46</td> <td>0.54 (0.46-0.62)</td> <td>55</td> </tr> <tr> <td>Lateral Ventricles</td> <td>33.32</td> <td>2.07 (0.96-3.03)</td> <td>55</td> </tr> <tr> <td>Inferior Lateral Ventricles</td> <td>2.67</td> <td>0.16 (0.11-0.23)</td> <td>45</td> </tr> </tbody> </table> <p>AGE-MATCHED REFERENCE CHARTS*</p> 	Brain Structure	Volume (cm ³)	% of ICV (5%-95% Normative Percentile*)	Normative Percentile*	Hippocampi	8.46	0.54 (0.46-0.62)	55	Lateral Ventricles	33.32	2.07 (0.96-3.03)	55	Inferior Lateral Ventricles	2.67	0.16 (0.11-0.23)	45	Normal (Not atrophied)	Normal (Not enlarged)	Normal (Not enlarged)	<u>Normal scan</u> : Does not support neurodegeneration
Brain Structure	Volume (cm ³)	% of ICV (5%-95% Normative Percentile*)	Normative Percentile*																		
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Thank You

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