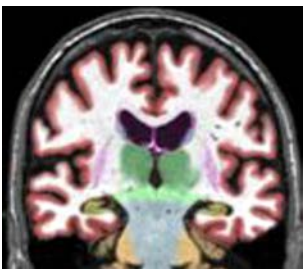
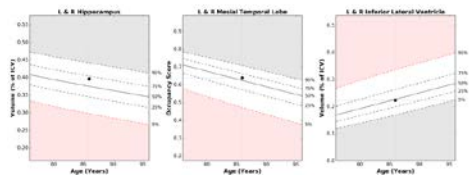
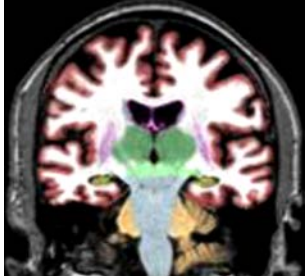
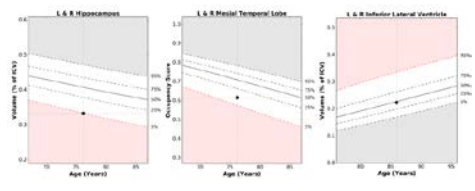
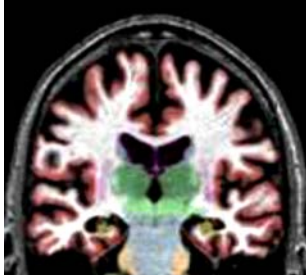
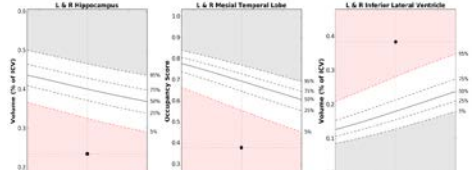
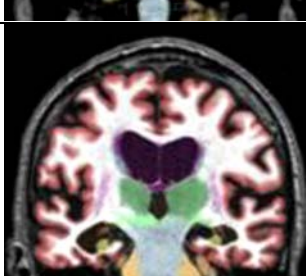
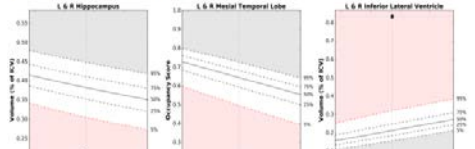
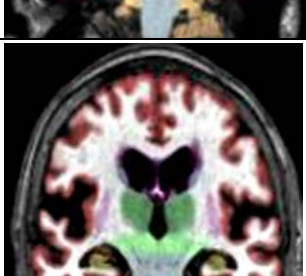
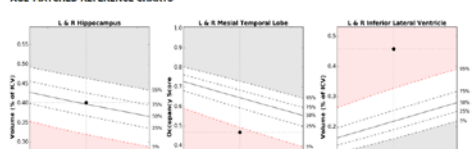


Understanding NeuroQuant®

Example Interpretations of NeuroQuant - Age Related Atrophy Report

Sample Segmented MRI	Example vMRI findings	Hippocampi	Mesial Temporal Lobe	Lateral Ventricles	Interpretation																				
	<table border="1"> <tr> <td colspan="2">Hippocampal Occupancy Score (HOC)</td> <td colspan="2">0.04</td> </tr> <tr> <th>Brain Structure</th> <th>Volume (cm³)</th> <th>% of ICV (5%-95% Normative Percentile)</th> <th>Normative Percentile</th> </tr> <tr> <td>Hippocampi</td> <td>5.25</td> <td>0.40 (0.33 - 0.44)</td> <td>59</td> </tr> <tr> <td>Lateral Ventricles</td> <td>47.07</td> <td>2.94 (2.29 - 5.56)</td> <td>32</td> </tr> <tr> <td>Inferior Lateral Ventricles</td> <td>3.58</td> <td>0.22 (0.17 - 0.34)</td> <td>47</td> </tr> </table> <p>AGE-MATCHED REFERENCE CHARTS</p> 	Hippocampal Occupancy Score (HOC)		0.04		Brain Structure	Volume (cm ³)	% of ICV (5%-95% Normative Percentile)	Normative Percentile	Hippocampi	5.25	0.40 (0.33 - 0.44)	59	Lateral Ventricles	47.07	2.94 (2.29 - 5.56)	32	Inferior Lateral Ventricles	3.58	0.22 (0.17 - 0.34)	47	Normal volume (Not atrophied)	Normal HOC	Normal volume (Not enlarged)	Normal Scan: Does not support neurodegeneration
Hippocampal Occupancy Score (HOC)		0.04																							
Brain Structure	Volume (cm ³)	% of ICV (5%-95% Normative Percentile)	Normative Percentile																						
Hippocampi	5.25	0.40 (0.33 - 0.44)	59																						
Lateral Ventricles	47.07	2.94 (2.29 - 5.56)	32																						
Inferior Lateral Ventricles	3.58	0.22 (0.17 - 0.34)	47																						
	<table border="1"> <tr> <td colspan="2">Hippocampal Occupancy Score (HOC)</td> <td colspan="2">0.02</td> </tr> <tr> <th>Brain Structure</th> <th>Volume (cm³)</th> <th>% of ICV (5%-95% Normative Percentile)</th> <th>Normative Percentile</th> </tr> <tr> <td>Hippocampi</td> <td>5.03</td> <td>0.33 (0.33 - 0.47)</td> <td>5</td> </tr> <tr> <td>Lateral Ventricles</td> <td>32.48</td> <td>2.15 (1.68 - 4.23)</td> <td>23</td> </tr> <tr> <td>Inferior Lateral Ventricles</td> <td>3.58</td> <td>0.22 (0.17 - 0.34)</td> <td>47</td> </tr> </table> <p>AGE-MATCHED REFERENCE CHARTS</p> 	Hippocampal Occupancy Score (HOC)		0.02		Brain Structure	Volume (cm ³)	% of ICV (5%-95% Normative Percentile)	Normative Percentile	Hippocampi	5.03	0.33 (0.33 - 0.47)	5	Lateral Ventricles	32.48	2.15 (1.68 - 4.23)	23	Inferior Lateral Ventricles	3.58	0.22 (0.17 - 0.34)	47	Low volume	Normal HOC	Normal	<u>Low hippocampal volume without ex-vacuo dilatation:</u> Possibly congenitally small hippocampi. Follow to establish presence and trajectory of volume change.
Hippocampal Occupancy Score (HOC)		0.02																							
Brain Structure	Volume (cm ³)	% of ICV (5%-95% Normative Percentile)	Normative Percentile																						
Hippocampi	5.03	0.33 (0.33 - 0.47)	5																						
Lateral Ventricles	32.48	2.15 (1.68 - 4.23)	23																						
Inferior Lateral Ventricles	3.58	0.22 (0.17 - 0.34)	47																						
	<table border="1"> <tr> <td colspan="2">Hippocampal Occupancy Score (HOC)</td> <td colspan="2">0.38</td> </tr> <tr> <th>Brain Structure</th> <th>Volume (cm³)</th> <th>% of ICV (5%-95% Normative Percentile)</th> <th>Normative Percentile</th> </tr> <tr> <td>Hippocampi</td> <td>3.53</td> <td>0.24 (0.33 - 0.47)</td> <td>1</td> </tr> <tr> <td>Lateral Ventricles</td> <td>41.87</td> <td>2.72 (1.78 - 4.59)</td> <td>47</td> </tr> <tr> <td>Inferior Lateral Ventricles</td> <td>5.93</td> <td>0.38 (0.13 - 0.28)</td> <td>99</td> </tr> </table> <p>AGE-MATCHED REFERENCE CHARTS</p> 	Hippocampal Occupancy Score (HOC)		0.38		Brain Structure	Volume (cm ³)	% of ICV (5%-95% Normative Percentile)	Normative Percentile	Hippocampi	3.53	0.24 (0.33 - 0.47)	1	Lateral Ventricles	41.87	2.72 (1.78 - 4.59)	47	Inferior Lateral Ventricles	5.93	0.38 (0.13 - 0.28)	99	Low volume	Low HOC	Normal	<u>Low hippocampal volume and suggestive of local ex-vacuo dilatation:</u> Supports MTL-focused neurodegenerative etiology
Hippocampal Occupancy Score (HOC)		0.38																							
Brain Structure	Volume (cm ³)	% of ICV (5%-95% Normative Percentile)	Normative Percentile																						
Hippocampi	3.53	0.24 (0.33 - 0.47)	1																						
Lateral Ventricles	41.87	2.72 (1.78 - 4.59)	47																						
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	<table border="1"> <tr> <td colspan="2">Hippocampal Occupancy Score (HOC)</td> <td colspan="2">0.21</td> </tr> <tr> <th>Brain Structure</th> <th>Volume (cm³)</th> <th>% of ICV (5%-95% Normative Percentile)</th> <th>Normative Percentile</th> </tr> <tr> <td>Hippocampi</td> <td>3.31</td> <td>0.21 (0.31 - 0.45)</td> <td>1</td> </tr> <tr> <td>Lateral Ventricles</td> <td>86.96</td> <td>5.51 (2.14 - 5.38)</td> <td>95</td> </tr> <tr> <td>Inferior Lateral Ventricles</td> <td>13.16</td> <td>0.83 (0.16 - 0.32)</td> <td>99</td> </tr> </table> <p>AGE-MATCHED REFERENCE CHARTS</p> 	Hippocampal Occupancy Score (HOC)		0.21		Brain Structure	Volume (cm ³)	% of ICV (5%-95% Normative Percentile)	Normative Percentile	Hippocampi	3.31	0.21 (0.31 - 0.45)	1	Lateral Ventricles	86.96	5.51 (2.14 - 5.38)	95	Inferior Lateral Ventricles	13.16	0.83 (0.16 - 0.32)	99	Low Volume	Low HOC	High Volume	<u>Low hippocampal volume and suggestive of global ex-vacuo dilatation:</u> Supports neurodegenerative etiology, but may or may not be MTL-focused
Hippocampal Occupancy Score (HOC)		0.21																							
Brain Structure	Volume (cm ³)	% of ICV (5%-95% Normative Percentile)	Normative Percentile																						
Hippocampi	3.31	0.21 (0.31 - 0.45)	1																						
Lateral Ventricles	86.96	5.51 (2.14 - 5.38)	95																						
Inferior Lateral Ventricles	13.16	0.83 (0.16 - 0.32)	99																						
	<table border="1"> <tr> <td colspan="2">Hippocampal Occupancy Score (HOC)</td> <td colspan="2">0.47</td> </tr> <tr> <th>Brain Structure</th> <th>Volume (cm³)</th> <th>% of ICV (5%-95% Normative Percentile)</th> <th>Normative Percentile</th> </tr> <tr> <td>Hippocampi</td> <td>5.23</td> <td>0.40 (0.32 - 0.46)</td> <td>54</td> </tr> <tr> <td>Lateral Ventricles</td> <td>73.83</td> <td>5.66 (2.05 - 5.33)</td> <td>97</td> </tr> <tr> <td>Inferior Lateral Ventricles</td> <td>5.97</td> <td>0.46 (0.16 - 0.33)</td> <td>99</td> </tr> </table> <p>AGE-MATCHED REFERENCE CHARTS</p> 	Hippocampal Occupancy Score (HOC)		0.47		Brain Structure	Volume (cm ³)	% of ICV (5%-95% Normative Percentile)	Normative Percentile	Hippocampi	5.23	0.40 (0.32 - 0.46)	54	Lateral Ventricles	73.83	5.66 (2.05 - 5.33)	97	Inferior Lateral Ventricles	5.97	0.46 (0.16 - 0.33)	99	Normal	Low HOC	High Volume	<u>Normal hippocampal volume with enlarged ventricular system:</u> Does not support hippocampal neurodegeneration. Possible expansion of overall ventricular system without MTL-focused ex-vacuo changes.
Hippocampal Occupancy Score (HOC)		0.47																							
Brain Structure	Volume (cm ³)	% of ICV (5%-95% Normative Percentile)	Normative Percentile																						
Hippocampi	5.23	0.40 (0.32 - 0.46)	54																						
Lateral Ventricles	73.83	5.66 (2.05 - 5.33)	97																						
Inferior Lateral Ventricles	5.97	0.46 (0.16 - 0.33)	99																						