

Supplemental Table 1. Cases with discordance between visual only A β -positive and negative analysis and Centiloid Scale results requiring re-evaluation. This table summarizes Centiloid Scale values and whole-brain histogram analysis results for the discordant cases.

No.	Age	Sex	MMSE	CDR (Global)	Centiloid Scale	Skewness (HD-BET)	MMR (HD-BET)	Skewness (FSL)	MMR (FSL)	Skewness (SPM)	MMR (SPM)	GW-ratio (SPM)	Visual-only A β diagnosis	Final visual A β diagnosis
					Normal Range	≥ 0.1769	≤ 0.9372	≥ 0.1819	≤ 1.9132	≥ -0.0382	≤ 1.1274	≤ 0.1079		
1	81	male	30	0	<u>37.6</u>	<u>0.0111</u>	0.7687	<u>0.0129</u>	0.7820	<u>-0.1386</u>	<u>1.1516</u>	<u>0.2007</u>	NEGATIVE	POSITIVE
2	66	female	29	0	<u>42.6</u>	0.2133	0.8616	<u>0.2788</u>	0.8347	0.0849	0.8782	<u>0.1479</u>	NEGATIVE	POSITIVE
3	90	female	17	1	<u>57.2</u>	<u>-0.1565</u>	<u>1.3645</u>	<u>-0.0530</u>	1.4141	<u>-0.2787</u>	<u>1.1821</u>	<u>0.3067</u>	NEGATIVE	POSITIVE
4	68	female	29	0.5	<u>54.1</u>	<u>-0.0228</u>	<u>1.2491</u>	<u>0.0252</u>	0.6473	<u>-0.1607</u>	<u>1.2348</u>	<u>0.2165</u>	NEGATIVE	POSITIVE
5	72	male	28	0.5	<u>38.9</u>	<u>0.1396</u>	0.6661	<u>0.1547</u>	0.6886	<u>-0.2199</u>	0.8777	<u>0.2484</u>	NEGATIVE	POSITIVE
6	82	male	26	0.5	<u>42.4</u>	0.2173	0.6990	0.1856	0.7438	0.1441	0.7084	<u>0.1476</u>	NEGATIVE	POSITIVE
7	79	male	30	0.5	<u>45.6</u>	<u>0.1013</u>	0.6092	<u>0.0983</u>	0.7731	-0.0103	0.9717	<u>0.1977</u>	NEGATIVE	POSITIVE
8	66	male	26	0.5	<u>42</u>	0.3250	0.6057	0.3075	0.6634	0.0761	0.8791	<u>0.1281</u>	NEGATIVE	POSITIVE
9	76	female	24	0.5	<u>32.4</u>	<u>0.0960</u>	0.6652	<u>0.0795</u>	0.6615	<u>-0.0901</u>	1.1265	0.0833	NEGATIVE	POSITIVE
10	75	female	28	0.5	<u>46.8</u>	<u>0.1422</u>	0.6629	<u>0.1481</u>	0.6633	0.0172	1.0834	<u>0.1086</u>	NEGATIVE	POSITIVE
11	72	male	23	0.5	<u>47.5</u>	<u>-0.1486</u>	1.3821	<u>-0.2743</u>	1.3330	<u>-0.2930</u>	<u>1.3132</u>	<u>0.6393</u>	NEGATIVE	POSITIVE
12	77	female	27	0	<u>41.1</u>	<u>0.0439</u>	0.6936	<u>0.0547</u>	0.6553	<u>-0.0454</u>	<u>1.1754</u>	<u>0.3584</u>	NEGATIVE	POSITIVE
13	77	male	29	0.5	<u>59.9</u>	<u>0.0385</u>	0.7514	<u>-0.0246</u>	1.1870	<u>-0.1439</u>	<u>1.1432</u>	<u>0.2086</u>	NEGATIVE	POSITIVE
14	67	female	30	0	<u>34.4</u>	<u>0.1193</u>	0.7213	<u>0.0273</u>	1.0247	<u>-0.0992</u>	1.1231	<u>0.2509</u>	NEGATIVE	POSITIVE
15	74	male	28	0.5	<u>66.6</u>	<u>0.0119</u>	0.5624	<u>-0.0882</u>	1.1005	<u>-0.2816</u>	<u>1.2709</u>	<u>0.2117</u>	NEGATIVE	POSITIVE
16	81	male	26	0.5	<u>57.7</u>	<u>0.0269</u>	<u>0.9779</u>	0.4040	0.5722	<u>-0.1237</u>	1.0014	<u>0.2047</u>	NEGATIVE	POSITIVE
17	73	male	27	0.5	<u>34.3</u>	<u>0.1119</u>	<u>1.0142</u>	0.8680	0.6206	<u>-0.0431</u>	1.1269	<u>0.1521</u>	NEGATIVE	POSITIVE
18	61	female	30	0	2.8	<u>0.1382</u>	<u>1.0798</u>	<u>0.1299</u>	1.0777	0.1174	1.0504	0.0523	POSITIVE	POSITIVE

Bold and underlined text indicates values outside the normal range.

Supplemental Table 2. Comparison of Area Under the Curve (AUC) values to assess the utility of quantitative indicators for differentiating radiologist-diagnosed amyloid positivity from negativity.

Comparison of AUCs (Chi-square test)		P-value	
Centiloid Scale	Skewness (HD-BET)	0.5763	
Centiloid Scale	MMR (HD-BET)	P < 0.001	**
Centiloid Scale	Skewness (FSL)	0.1595	
Centiloid Scale	MMR (FSL)	P < 0.001	**
Centiloid Scale	Skewness (SPM)	0.0141	*
Centiloid Scale	MMR (SPM)	0.0028	**
Centiloid Scale	Top 20% GW-ratio (SPM)	0.0331	*
Skewness (HD-BET)	MMR (HD-BET)	P < 0.001	**
Skewness (HD-BET)	Skewness (FSL)	0.2028	
Skewness (HD-BET)	MMR(FSL)	P < 0.001	**
Skewness (HD-BET)	Skewness (SPM)	0.0242	*
Skewness (HD-BET)	MMR (SPM)	0.0014	**
Skewness (HD-BET)	Top 20% GW-ratio (SPM)	0.4011	
MMR (HD-BET)	Skewness (FSL)	P < 0.001	**
MMR (HD-BET)	MMR (FSL)	0.2244	
MMR (HD-BET)	Skewness (SPM)	P < 0.001	**
MMR (HD-BET)	MMR (SPM)	0.0024	**
MMR (HD-BET)	Top 20% GW-ratio (SPM)	P < 0.001	**
Skewness (FSL)	MMR (FSL)	P < 0.001	**
Skewness (FSL)	Skewness (SPM)	0.7652	
Skewness (FSL)	MMR (SPM)	0.1629	
Skewness (FSL)	Top 20% GW-ratio (SPM)	0.3919	
MMR (FSL)	Skewness (SPM)	P < 0.001	**
MMR(FSL)	MMR (SPM)	P < 0.001	**
MMR (FSL)	Top 20% GW-ratio (SPM)	P < 0.001	**
Skewness (SPM)	MMR (SPM)	0.0130	*
Skewness (SPM)	Top 20% GW-ratio (SPM)	0.2170	
MMR (SPM)	Top 20% GW-ratio (SPM)	0.0111	*

* P < 0.05, **P < 0.01

AUC, area under the curve; MMR, mode-to-mean ratio

Supplemental Table 3. Comparison of Area Under the Curve (AUC) values to assess the utility of quantitative indicators for differentiating cognitively normal participants (G-CDR = 0 and MMSE $\geq$ 28) from other groups using quantitative indicators.

Comparison of AUCs (Chi-square test)		P-value	
Centiloid Scale	Skewness (HD-BET)	0.3338	
Centiloid Scale	MMR (HD-BET)	0.0052	**
Centiloid Scale	Skewness (FSL)	0.2237	
Centiloid Scale	MMR (FSL)	0.0075	**
Centiloid Scale	Skewness (SPM)	0.9448	
Centiloid Scale	MMR (SPM)	0.4386	
Centiloid Scale	Top 20% GW-ratio (SPM)	0.3076	
Skewness (HD-BET)	MMR (HD-BET)	0.0102	*
Skewness (HD-BET)	Skewness (FSL)	0.4434	
Skewness (HD-BET)	MMR(FSL)	0.0183	*
Skewness (HD-BET)	Skewness (SPM)	0.1460	
Skewness (HD-BET)	MMR (SPM)	0.9737	
Skewness (HD-BET)	Top 20% GW-ratio (SPM)	0.0290	*
MMR (HD-BET)	Skewness (FSL)	0.0362	*
MMR (HD-BET)	MMR (FSL)	0.8735	
MMR (HD-BET)	Skewness (SPM)	0.0032	**
MMR (HD-BET)	MMR (SPM)	0.0183	*
MMR (HD-BET)	Top 20% GW-ratio (SPM)	P < 0.001	**
Skewness (FSL)	MMR (FSL)	0.0296	*
Skewness (FSL)	Skewness (SPM)	0.0711	
Skewness (FSL)	MMR (SPM)	0.6593	
Skewness (FSL)	Top 20% GW-ratio (SPM)	0.0051	**
MMR (FSL)	Skewness (SPM)	0.0043	**
MMR(FSL)	MMR (SPM)	0.0300	*
MMR (FSL)	Top 20% GW-ratio (SPM)	P < 0.001	**
Skewness (SPM)	MMR (SPM)	0.1826	
Skewness (SPM)	Top 20% GW-ratio (SPM)	0.2055	
MMR (SPM)	Top 20% GW-ratio (SPM)	0.0410	*

* P < 0.05, **P < 0.01

AUC, area under the curve; MMR, mode-to-mean ratio