

Table 2: Summary table of anatomical AIRC-regions relevant in dementia diagnoses.

AIRC-Region	Intraclass correlation coefficient	Dependent sample t-test p-value	Maloney-Rastogi test p-value	Mean delta [%]	Maximum delta [%]	Minimum delta [%]
total intracranial volume	0.98	0.18	0.49	-0.48	6.69	-8.24
brain	0.96	0.78	0.65	-0.11	14.04	-16.87
gray matter (GM)	0.92	0.23	0.094	-1.27	15.20	-24.29
cortical GM	0.92	0.38	0.075	-1.03	19.47	-24.27
white matter (WM)	0.95	0.13	0.4	1.65	24.08	-12.17
cerebral spinal fluid	0.85	0.37	0.42	-0.63	32.13	-22.28
ventricles	0.99	0.0005*	0.082	4.05	16.28	-10.10
lateral ventricle left	0.99	0.0008*	0.47	4.45	17.95	-7.31
lateral ventricle right	0.99	0.0004*	0.0025	4.13	17.30	-10.59
3rd ventricle	0.97	0.017	0.036	2.28	21.43	-22.22
hippocampus	0.94	0.6	0.89	-0.25	21.43	-31.48
hippocampus left	0.95	1.0	0.84	0.25	21.74	-27.59
hippocampus right	0.92	0.56	0.43	-0.16	27.78	-36.00
frontal GM left	0.91	0.13	0.035	-1.95	23.38	-21.92
frontal GM right	0.90	0.12	0.024	-2.15	25.27	-21.76
parietal GM left	0.91	0.07	0.15	-0.05	23.12	-24.74
parietal GM right	0.91	0.7	0.1	0.49	28.77	-25.19
temporal GM left	0.92	0.25	0.42	-1.19	15.90	-25.55
temporal GM right	0.94	0.52	0.23	-0.63	15.91	-22.35
frontal WM left	0.97	0.36	0.38	1.31	29.81	-12.38
frontal WM right	0.97	0.78	0.65	0.03	29.76	-10.58
parietal WM left	0.96	0.21	0.59	1.55	28.00	-9.13
parietal WM right	0.95	0.062	0.85	2.35	33.24	-9.60
temporal WM left	0.96	0.68	0.2	0.13	23.53	-14.29
temporal WM right	0.95	0.33	0.5	1.37	29.23	-11.19

Automated brain volumetric measurements and volumetric differences normalized to baseline (deltas. %) were generated using the AI-Rad Companion Brain MR (version VA40 [AIRC], Siemens Healthineers, Forchheim, Germany); Abbreviations: GM: gray matter, WM: white matter. **Bold** indicates significance at $p < 0.05$ and * indicates significance at $p^*=0.0009$ using the strict Bonferroni-correction for multiple testing ($N_{\text{test}}=51$).