

Supportive/Supplementary Material

Table S1. Comparison of the mean bias and 95% limits of agreement (LOA) for total intracranial volume between the three volumetry software packages

	NQ vs. FS		NQ vs. HAD		FS vs. HAD	
	Mean Bias	95% LOA	Mean Bias	95% LOA	Mean Bias	95% LOA
Total	12.96	-90.72, 116.65	45.90	-104.97, 196.78	32.95	-74.41, 140.30
Non-AD	27.20	-82.55, 136.95	53.67	-127.12, 234.46	26.47	-108.71, 161.65
AD	-6.55	-88.42, 75.51	35.32	-59.88, 130.53	41.78	-3.73, 87.28

Note— AD, Alzheimer's disease; FS, FreeSurfer; HAD, Heuron AD; LOA, limits of agreement; NQ, NeuroQuant

Table S2. Comparison of the mean bias and 95% limits of agreement (LOA) for measured volumes in each brain region between the three volumetry software packages.

	Lt. hemisphere						Rt. hemisphere					
	NQ vs. FS		NQ vs. HAD		FS vs. HAD		NQ vs. FS		NQ vs. HAD		FS vs. HAD	
	Mean Bias	95% LOA	Mean Bias	95% LOA	Mean Bias	95% LOA	Mean Bias	95% LOA	Mean Bias	95% LOA	Mean Bias	95% LOA
Cortical GM												
Total	15.87	-11.28, 43.03	41.96	13.38, 70.54	26.09	1.81, 50.36	17.30	-9.56, 44.17	42.21	13.25, 71.18	24.90	2.14, 47.66
Non-AD	21.78	-7.19, 50.76	42.69	11.66, 73.71	20.91	-0.68, 42.49	21.78	-8.17, 51.72	42.09	10.70, 73.49	20.32	-1.40, 42.03
AD	7.82	-5.41, 21.05	40.98	15.77, 66.18	33.16	12.32, 53.99	11.22	-4.56, 27.00	42.37	16.62, 68.12	31.15	13.00, 49.31
Cerebral WM												
Total	17.00	16.99, 17.01	7.72	-5.79, 21.23	-9.28	-22.79, 4.23	22.40	22.40, 22.41	9.66	-6.00, 25.32	-12.74	-28.40, 2.92
Non-AD	17.00	16.99, 17.00	5.28	-5.24, 15.80	-11.72	-22.24, 1.20	22.40	22.40, 22.41	7.08	-4.98, 19.14	-15.33	-27.39, 3.27
AD	17.00	17.00, 17.01	11.05	-3.48, 25.57	-5.95	-20.48, 8.57	22.40	22.40, 22.41	13.18	-4.28, 30.64	-9.22	-26.68, 8.24
Hippocampus												
Total	-0.23	-0.99, 0.53	-0.57	-1.74, 0.61	-0.34	-1.08, 0.42	-0.28	-1.14, 0.58	-0.56	-2.03, 0.92	-0.28	-1.16, 0.61
Non-AD	-0.10	-0.92, 0.72	-0.34	-1.65, 0.97	-0.24	-1.08, 0.60	-0.12	-1.03, 0.79	-0.22	-1.72, 1.27	-0.10	-0.92, 0.72

AD	-0.41	-0.91, 0.95	-0.88	-1.45, 0.31	-	-0.47	-0.99, 0.06	-0.50	-1.06, 0.06	-1.01	-1.88, 0.15	-	-0.51	-1.27, 0.25		
Amygdala																
Total	0.14	-0.21, 0.50	-0.03	-0.48, 0.42		-0.17	-0.54, 0.19	-0.11	-0.45, 0.23	-0.26	-0.64, 0.13		-0.15	-0.43, 0.14		
Non-AD	0.14	-0.26, 0.54	-0.01	-0.52, 0.50		-0.15	-0.59, 0.29	-0.11	-0.50, 0.29	-2.30	-0.71, 0.11		-0.19	-0.46, 0.07		
AD	0.15	-0.15, 0.44	-0.06	-0.41, 0.28		-0.21	-0.41, 0.00	-0.11	-0.35, 0.13	-0.20	-0.51, 0.11		-0.09	-0.35, 0.18		
Caudate																
Total	-0.98	-0.92, 0.72	-0.24	-1.13, 0.66		-0.14	-0.73, 0.45	0.07	-1.13, 1.28	-0.21	-1.08, 0.66		-0.28	-1.04, 0.48		
Non-AD	-0.19	-1.06, 0.68	-0.27	-1.26, 0.72		-0.08	-0.68, 0.53	-0.002	-0.97, 0.96	-0.22	-1.10, 0.67		-0.21	-0.79, 0.36		
AD	0.03	-0.66, 0.71	-0.20	-0.95, 0.56		-0.23	-0.75, 0.30	0.17	-1.29, 1.64	-0.20	-1.05, 0.66		-0.37	-1.32, 0.57		
Putamen																
Total	1.45	0.24, 0.27	1.62	0.51, 2.73	0.16		-0.60, 0.93	1.23	0.08, 2.38	1.45	0.16, 2.74	0.22		-0.40, 0.83		
Non-AD	1.48	0.18, 2.77	1.76	0.57, 2.96	0.29		-0.16, 0.73	1.29	-0.04, 2.62	1.62	0.20, 3.03	0.33		-0.10, 0.76		
AD	1.42	0.31, 2.54	1.42	0.56, 2.28	-0.003		-0.97, 0.96	1.16	0.31, 2.00	1.22	0.28, 2.16	0.07		-0.64, 0.77		
Pallidum																
Total	-1.43	-2.10, 0.76	-	-1.39	-1.93, 0.85	-	0.04	-0.48, 0.57	-1.42	-2.05, 0.78	-	-1.39	-1.99, 0.79	-	0.03	-0.55, 0.60
Non-AD	-1.35	-2.06, 0.64	-	-1.37	-1.91, 0.83	-	-0.02	-0.54, 0.50	-1.33	-1.82, 0.84	-	-1.40	-1.98, 0.82	-	-0.07	-0.36, 0.23

AD	-1.55	-2.08, 1.02	-1.42	-1.97, 0.88	-0.13	-0.37, 0.62	-1.53	-2.27, 0.79	-1.37	-2.00, 0.74	-0.16	-0.59, 0.91
Thalamus												
Total	1.05	0.20, 1.90	1.06	0.03, 2.09	0.01	-0.55, 0.57	1.12	0.02, 2.23	1.07	-0.04, 2.18	-0.05	-0.05, 0.40
Non-AD	1.12	0.21, 2.02	1.14	0.10, 2.17	0.02	-0.56, 0.59	1.15	-0.08, 2.39	1.13	-0.01, 2.27	-0.02	-0.49, 0.44
AD	0.96	0.22, 1.70	0.95	-0.06, 1.97	-0.01	-0.56, 0.54	1.08	0.17, 1.99	0.99	-0.06, 2.04	-0.09	-0.54, 0.36
Cerebellum												
Total	0.74	-2.67, 4.15	4.89	-2.07, 11.85	4.15	-2.70, 11.01	1.32	-3.04, 5.69	4.09	-2.29, 10.48	2.77	-2.81, 8.34
Non-AD	0.87	-2.90, 4.63	4.37	-2.82, 11.57	3.51	-3.41, 10.43	1.18	-3.31, 5.68	3.90	-2.59, 10.39	2.72	-3.50, 8.94
AD	0.56	-2.32, 3.44	5.60	-0.88, 12.08	5.03	-1.45, 11.52	1.51	-2.70, 5.73	4.35	-1.95, 10.66	2.84	-1.80, 7.48

Note— AD, Alzheimer's disease; FS, FreeSurfer; GM, gray matter; HAD, Heuron AD; LOA, limits of agreement; NQ, NeuroQuant; WM, white matter