

Table S5

Comparisons of brain region of interest (ROI) volumes within the chronic kidney disease (CKD) group (excluding kidney transplant recipients), between individuals with eGFR <45 versus ≥45 mL/min/1.73m², adjusted for age and sex.

Region of interest	Normalized ROI volume, mm ³ *				F value [‡]	P
	eGFR <45 mL/min/1.73m ² N=31		eGFR ≥45 mL/min/1.73m ² N=30			
	Least squares mean	Standard error	Least squares mean	Standard error		
Whole brain GM	821,892	5,780	833,620	5,876	2.01	0.2
Whole brain WM	513,466	2,937	506,443	2,986	2.79	0.1
Cortex GM	640,794	5,831	648,610	5,928	0.88	0.4
Frontal GM, total	243,390	2,706	247,239	2,751	0.99	0.3
Frontal GM, left	121,670	1,391	123,568	1,414	0.91	0.3
Frontal GM, right	121,720	1,359	123,671	1,382	1.01	0.3
Frontal WM	198,518	1,540	195,777	1,566	1.55	0.2
Temporal GM, left	67,037	580	67,029	589	0.00	0.9
Temporal GM, right	67,887	688	67,222	699	0.46	0.5
Parietal GM, left	62,067	856	63,439	870	1.26	0.3
Parietal GM, right	61,950	873	63,531	887	1.61	0.2
Occipital GM, left	46,011	562	46,714	571	0.76	0.4
Occipital GM, right	46,259	585	46,329	595	0.01	0.9
Limbic GM, left	23,445	336	23,835	342	0.66	0.4
Limbic GM, right	22,749	297	23,272	302	1.52	0.2
Amygdala	2,336	44	2,301	44	0.32	0.6
Hippocampus	8,402	147	8,151	149	1.43	0.2
Thalamus Proper	16,904	174	17,094	177	0.59	0.4
Lateral Ventricles	12,523	970	10,545	986	2.03	0.2

*ROI volumes calculated in cubic millimeters (mm³). Raw ROI volumes normalized for intracranial volume (ICV) by dividing ROI volume by ICV, then multiplying by 1,500,000 mm³ (a constant representing the approximate average ICV) to scale to a larger value.
[‡]Degrees of freedom = 60
 GM: Gray matter; WM: White matter; SE: standard error