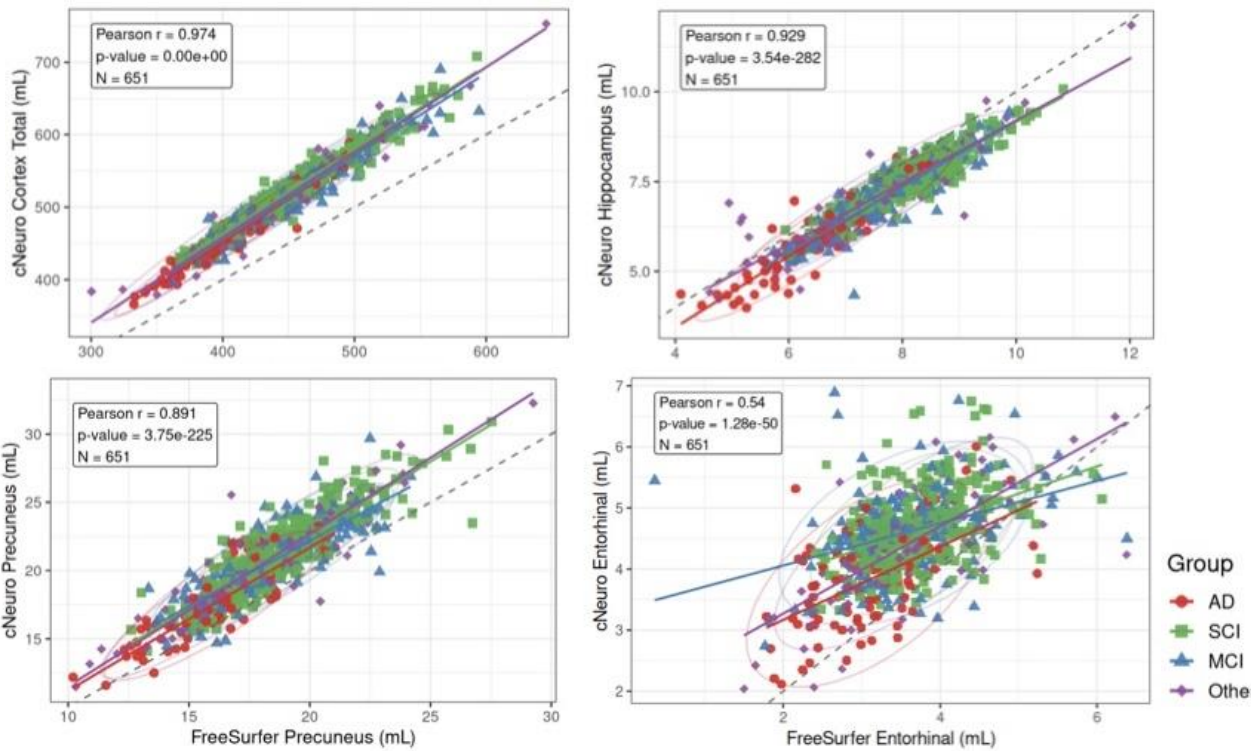
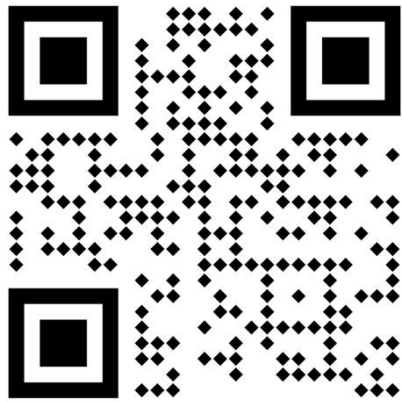


Comparison of Automated Brain Volume Measures Obtained with cNeuro and Freesurfer

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cNeuro showed strong agreement with FreeSurfer in real-world memory clinic cohort, with high correlations across most brain regions.
Absolute volumes differed systematically, with cNeuro generally yielding higher estimates
Both methods capture similar inter-individual variation, support cNeuro for clinical use

INTRODUCTION	METHODS	RESULTS	CONCLUSIONS	REFERENCES
Automated MRI volumetry is increasingly used to support dementia diagnostics FreeSurfer is a research standard but not adapted for routine clinical use cNeuro is a CE-marked, clinically oriented tool providing rapid volumetric outputs Aim: Evaluate whether cNeuro measurements produces consistent with FreeSurfer	Cohort: n = 651, from Karolinska memory clinic SCI (n=295), MCI (n=166), AD (n=92), Others (n=98) Assessments: 3T T1w MRI processed with cNeuro and FreeSurfer Regional volumes mapped across pipelines Analysis: Intraclass correlation coefficient (ICC) Pearson correlation (r) Effect size (Cohen´s d)	Moderate to excellent agreement across most regions (ICC > 0,75) Strong correlations indicating high rank-order consistency Systematic differences in absolute volumes, with large positive effect sizes indicating higher cNeuro estimates.  Patterns consistent across diagnostic groups	cNeuro and FreeSurfer capture similar inter-individual variation Differences mainly reflect scaling/systemic effects, not inconsistency Support cNeuro as a clinically applicable, rapid volumetric tool Alternative to visual assessment in memory clinic workflows	Khadraoui et al. <i>Front. Aging Neurosci</i>, 2024 Lötjönen et al, <i>Neuroimage</i>, 2016 Ochs et al, <i>J neuroimaging</i>, 2015 CONTACT  Atef Badji, MD, PhD Karolinska Institutet Email:atef.badji@ki.se 