

Additional file 2: Supplementary Figures

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Article title

Carotid functional abnormalities without detectable intima-media thickening in adults with high-normal blood pressure: a retrospective cross-sectional quantitative ultrasound study

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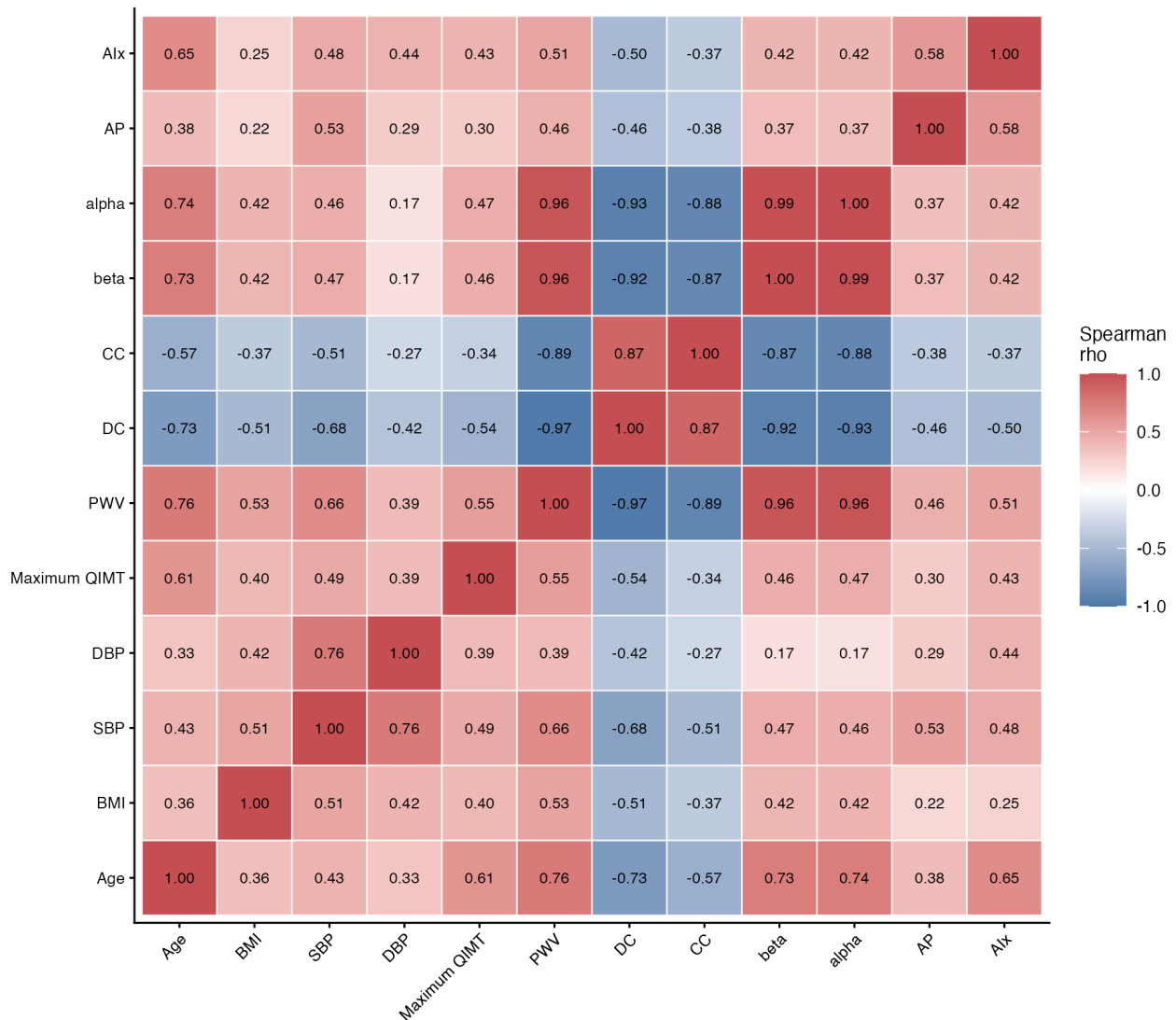
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This PDF contains Supplementary Figs. 1-3 cited as Additional file 2 in the manuscript.

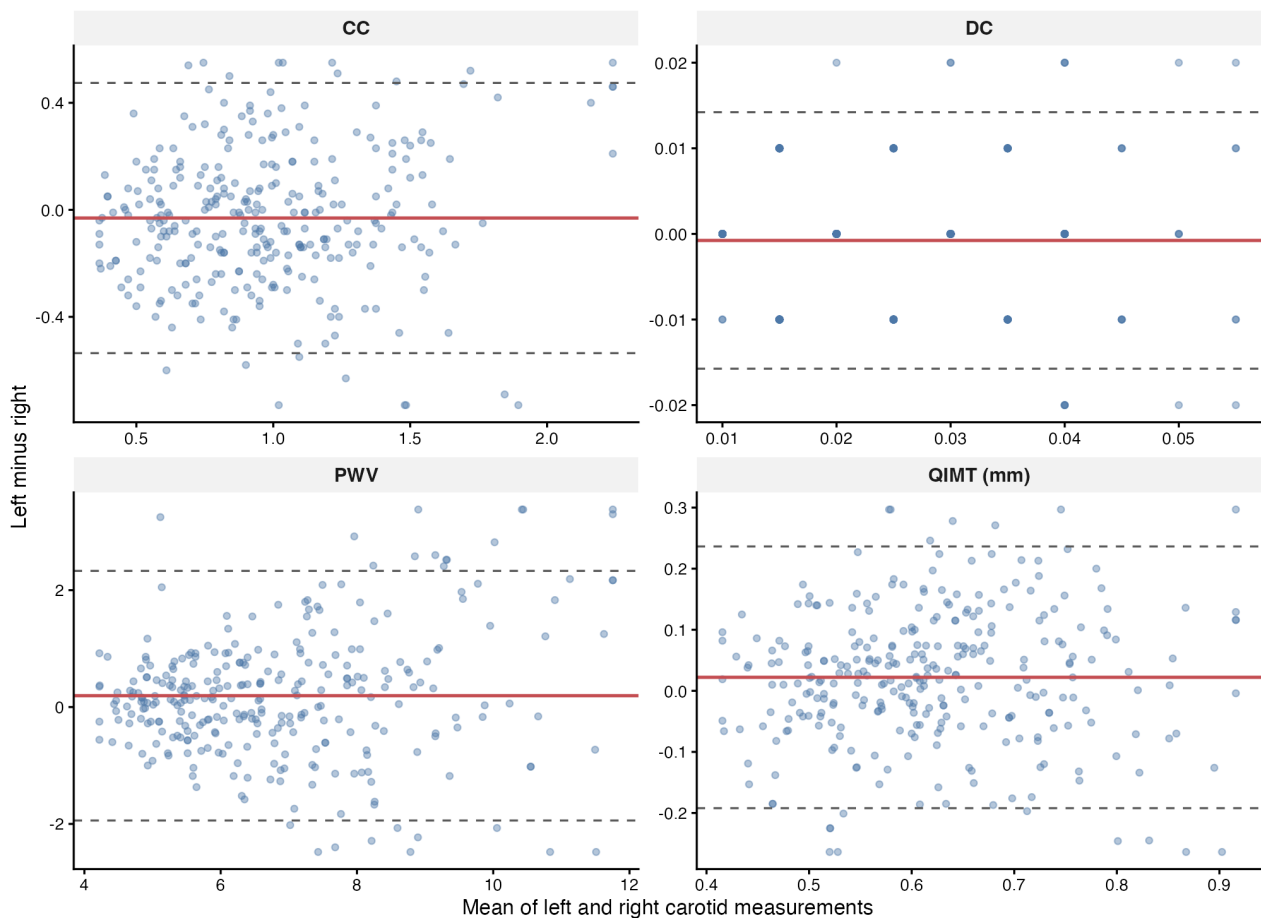
Supplementary Fig. 1 Correlation matrix

Spearman correlation matrix for demographic, blood pressure, QIMT, and QAS-derived functional measures. Strong correlations among several QAS-derived measures support their interpretation as related functional signals rather than independent endpoints.



Supplementary Fig. 2 Bilateral agreement

Bland-Altman plots comparing left and right carotid QIMT, PWV, DC, and CC. Solid horizontal lines show mean differences; dashed lines show approximate 95% limits of agreement. Values were winsorized at the 1st and 99th percentiles for visualization only.



Supplementary Fig. 3 Exploratory structure-function phenotype

Scatter plot of maximum QIMT and CFSS. Dashed vertical and horizontal lines show the 75th percentiles of maximum QIMT and CFSS in the ideal-blood-pressure group. The upper-left quadrant represents isolated functional impairment, defined by internal reference thresholds as elevated functional stiffness without elevated QIMT.

Exploratory structure–function carotid phenotype

Dashed lines indicate the 75th percentiles of ideal BP group

