

Inorganic Nitrate Supplementation on Cerebrovascular Aging and Arterial Stiffness  
Study (INCA)

NCT03617302

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Statistical analysis plan: To test whether acute and chronic inorganic nitrate treatment improves carotid artery compliance, carotid pressure wave reflection (augmentation index) and carotid pulse pressure, linear-mixed models design for repeated measures will be used to test the effect of treatment (inorganic nitrate vs. placebo) on time (baseline vs. 2 hours acute supplementation) on the variables carotid artery compliance, and carotid pressure wave reflection (augmentation index), carotid pulse pressure, covariates (e.g., variables that change after nitrate treatment) will be included into the mixed model. Bivariate Pearson correlation analysis will be performed on the change in each dependent variable and selected covariates after beetroot juice.