

As a supplementary analysis, we calculated the cerebral metabolic rate of oxygen consumption (CMRO₂), which can be estimated in units of ml O₂/100g tissue/min by combining the above measurements according to:

$$CMRO_2 = \text{Oxygen delivered} * OEF.$$

Figure 1: CMRO₂ in adults with SCA. In adults with SCA overall, there was a significant association between VHS and CMRO₂ (Jonckheere-Terpstra p=0.050). In adults with SCA and overt stroke, there was no association between VHS and CMRO₂ (Jonckheere-Terpstra p=0.544). This association was also not significant in the subgroups without overt stroke but with SCI/WMH (p=0.139) or without any lesions (p=0.098).

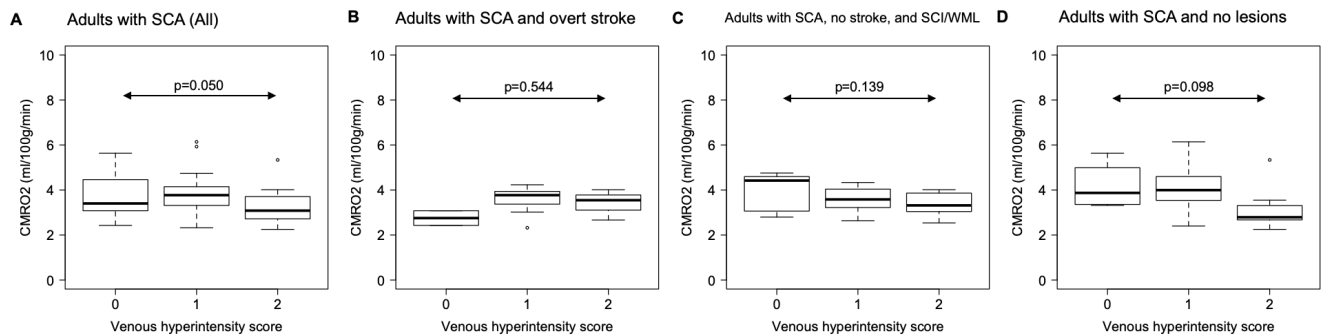


Figure 2: CMRO₂ in adult controls. In controls, no association was found between VHS and CMRO₂ (Wilcoxon rank sum p=0.991).

