Statistical Analysis Plan

Carbon Dioxide (CO_2): A Pilot Study of a Hypothesized Mechanism to Explain Cognitive Impairment

NCT 05292378

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Primary Outcome Measure: Change in PMN (polymorphonuclear leukocyte) activation as measured by basal oxygen consumption rate (OCR) 4 hours after exposure.

Statistical method: A paired t-test was used to compare the difference between the basal OCR after high CO2 exposure and the basal OCR after low CO2 exposure. The level of significance (α) was set to 0.05.

Primary Outcome Measure: Change in PMN (polymorphonuclear leukocyte) activation as measured by total stimulated O2 consumption 4 hours after exposure.

Statistical method: A paired t-test was used to compare the difference between the Total Stimulated O2 Consumption after high CO2 exposure and the total stimulated O2 consumption after low CO2 exposure. The level of significance (α) was set to 0.05.

Primary Outcome Measure: Change in PMN (polymorphonuclear leukocyte) activation as measured by time to peak (TTP) O2 consumption 4 hours after exposure.

Statistical method: A paired t-test was used to compare the difference between the TTP after high CO2 exposure and the TTP after low CO2 exposure. The level of significance (α) was set to 0.05.