

Official title: Statin-associated muscle symptoms: in vivo and in vitro studies of mitochondrial function

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Statistical Analysis

The primary endpoint will be the differences in pre- and post-phosphocreatine relaxation time in SAMS patients on simvastatin compared to placebo. We chose 15 patients/arm since this sample size is within the range of prior pilot and feasibility studies. The treatment effect will be estimated by comparing the changes in the patient's pre- and post-phosphocreatine relaxation between the experimental and control arm using the independent t-test. All analyses will be conducted according to the intention-to-treat principle. Significance: A p-value of less than 0.05 will be considered statistically significant. Multiple testing correction will not be applied as this is a pilot study.