

## S5 Appendix - Sample size calculation

Estimated sample size for two samples with repeated measures
Assumptions:
alpha = 0.0500 (two-sided)
power = 0.8000
m1 = 56
m2 = 70
sd1 = 22
sd2 = 22
n2/n1 = 1.00
number of follow-up measurements = 3
correlation between follow-up measurements = 0.750
number of baseline measurements = 1
correlation between baseline & follow-up = 0.750

Method: CHANGE
relative efficiency = 3.000
adjustment to sd = 0.577
adjusted sd1 = 12.702
adjusted sd2 = 12.702

Estimated required sample sizes:
n1 = 15
n2 = 15