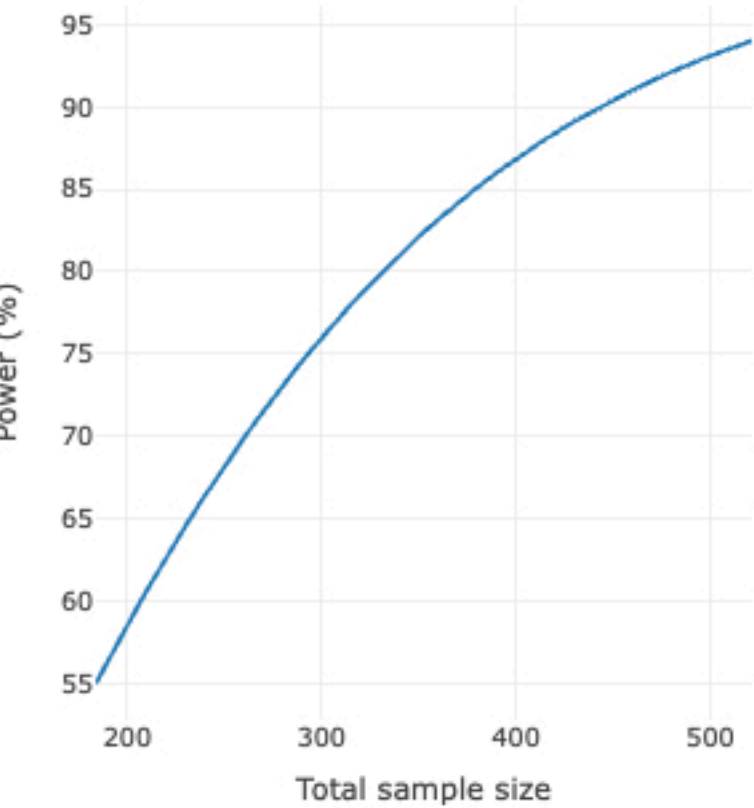## Power analysis results

Power analysis using Diggle et al (2002)

Sample size calculation for difference in slopes between two groups using ADNI data to estimate pilot parameters. See Diggle et al (2002) for parameter definitions and other details.

Summary	Value
Method	Diggle et al (2002)
Type of test	two.sided
Type I error	0.05
Estimated rate of change in placebo group	0.5268
Effect size (% of placebo group change)	75
Effect size (raw scale)	0.3951
Observation times	0, 0.5, 1, 1.5

Model fit to pilot data

```
Linear mixed model fit by REML ['lmerMod']
Formula: CDRSB ~ Years.bl + (Years.bl | RID)
   Data: subdata()

REML criterion at convergence: 20072.4

Scaled residuals:
    Min      1Q  Median      3Q     Max
-6.5706 -0.2879 -0.0858  0.2384  6.6483

Random effects:
 Groups   Name        Variance Std.Dev. Corr
 RID      (Intercept) 2.8142   1.6776
          Years.bl    1.3353   1.1556   0.65
 Residual             0.3898   0.6243
Number of obs: 5994, groups:  RID, 2372

Fixed effects:
            Estimate Std. Error t value
(Intercept)  1.47748    0.03645   40.53
Years.bl     0.52682    0.03272   16.10

Correlation of Fixed Effects:
         (Intr)
Years.bl 0.322
```