Optimal Information Size (OIS)

Alpha α error = 0.05;

Beta β error = 0.2;

N=size per group;

z_x= the z-score/standard normal deviate for a two-sided x;

δ = a clinically acceptable margin;

S^2= Polled standard deviation of both comparison groups;

$$N = 2 \times \left(\frac{z_{1-\frac{\alpha}{2}} + z_{1-\beta}}{\delta} \right)^2 \times s^2$$

N = 2 x $(1.96 + 0.842/4.9)^2$ x 24.0^2 = 377 per group.

Total = 2 x 377 = **754**