

Sample size calculations

- 1. α 5% (0.05)
- 2. Power 80% (0.8)
- 3. Estimate of response rate in one group 30%
- 4. Estimate of response rate in other group 50%
- 5. One-sided or two-sided test

| | % Group 1 | | | | | | | | | |
|-----------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|----|
| % Group 2 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
| 10 | 74 | | | | | | | | | |
| 20 | 34 | 199 | | | | | | | | |
| 30 | 21 | 62 | 293 | | | | | | | |
| 40 | 15 | 32 | 81 | 356 | | | | | | |
| 50 | 11 | 20 | 39 | 93 | 387 | | | | | |
| 60 | 8 | 13 | 23 | 42 | 97 | 387 | | | | |
| 70 | 6 | 10 | 14 | 23 | 42 | 93 | 356 | | | |
| 80 | 5 | 7 | 10 | 15 | 23 | 39 | 81 | 293 | | |
| 90 | 4 | 5 | 7 | 10 | 14 | 20 | 32 | 62 | 199 | |
| 100 | 2 | 4 | 5 | 6 | 8 | 11 | 15 | 21 | 34 | 74 |

In order to arrive at 80% Power with an alpha level of 5% we'd need 93 study participants in each group.