Clinical scenario evaluation

# General information

## Project information

This report was generated by [Mediana's User] using the Mediana package. For more information about the Mediana package, see http://biopharmnet.com/mediana.

Project title: Case study 1

Description: Clinical trial in patients with relapsing-remitting multiple sclerosis

## Simulation parameters

Random seed: 42938001

Number of simulations: 1000

Number of cores: 4

Start time: 2015-10-14 22:45:13

End time: 2015-10-14 22:46:05

Duration (mins): 0.87 mins

# Data model

## Sample size

Number of samples: 2

Number of sample size sets: 6

1. Sample size

| **Sample size set** | **Sample** | **Size** |
| --- | --- | --- |
| N = 100 | Placebo | 100 |
| Treatment | 100 |
| N = 110 | Placebo | 110 |
| Treatment | 110 |
| N = 120 | Placebo | 120 |
| Treatment | 120 |
| N = 130 | Placebo | 130 |
| Treatment | 130 |
| N = 140 | Placebo | 140 |
| Treatment | 140 |
| N = 150 | Placebo | 150 |
| Treatment | 150 |

## Outcome distribution

Number of outcome parameter sets: 1

Outcome distribution: Negative binomial

1. Outcome parameter

| **Outcome parameter set** | **Sample** | **Parameter** |
| --- | --- | --- |
| Outcome 1 | Placebo | dispersion = 0.5, mean = 13 |
| Treatment | dispersion = 0.5, mean = 7.8 |

# Analysis model

## Tests

Number of tests/null hypotheses: 1

1. Tests

| **Test ID** | **Test type** | **Test parameters** | **Samples** |
| --- | --- | --- | --- |
| Treatment vs Placebo | Negative-binomial regression test |  | {Treatment}, {Placebo} |

# Outcome Parameter 1

1. Results summary

| **Sample Size** | **Criterion** | **Test/Statistic** | **Result** |
| --- | --- | --- | --- |
| N = 100 | Marginal power | Treatment vs Placebo | 0.7070 |
| N = 110 | Marginal power | Treatment vs Placebo | 0.7430 |
| N = 120 | Marginal power | Treatment vs Placebo | 0.7760 |
| N = 130 | Marginal power | Treatment vs Placebo | 0.8290 |
| N = 140 | Marginal power | Treatment vs Placebo | 0.8430 |
| N = 150 | Marginal power | Treatment vs Placebo | 0.8540 |