Clinical Scenario Evaluation

# General information

## Project information

This report was generated by [Mediana's User] using the Mediana package version 1.0.6. For more information about the Mediana package, see http://gpaux.github.io/Mediana.

Project title: Case study 1

Description: Clinical trial in patients with pulmonary arterial hypertension

## Simulation parameters

Random seed: 42938001

Number of simulations: 10000

Number of cores: 4

Start time: 2018-02-06 10:45:31

End time: 2018-02-06 10:46:04

Duration: 32.70 secs

# Data model

## Sample size

Number of samples: 2

Number of sample size sets: 5

1. Sample size

| **Sample size set** | **Sample** | **Size** |
| --- | --- | --- |
| N = 55 | Placebo | 55 |
| Treatment | 55 |
| N = 60 | Placebo | 60 |
| Treatment | 60 |
| N = 65 | Placebo | 65 |
| Treatment | 65 |
| N = 70 | Placebo | 70 |
| Treatment | 70 |
| N = 75 | Placebo | 75 |
| Treatment | 75 |

## Outcome distribution

Number of outcome parameter sets: 1

Outcome distribution: Normal

1. Outcome parameter

| **Outcome parameter set** | **Sample** | **Parameter** |
| --- | --- | --- |
| Outcome 1 | {Placebo} | mean = 0, SD = 70 |
| {Treatment} | mean = 40, SD = 70 |

# Analysis model

## Tests

Number of tests/null hypotheses: 1

1. Tests

| **Test ID** | **Test type** | **Test parameters** | **Samples** |
| --- | --- | --- | --- |
| Placebo vs treatment | Student's t-test |  | {Placebo}, {Treatment} |

## Statistics

Number of descriptive statistics: 1

1. Statistics

| **Statistic ID** | **Statistic type** | **Statistic parameters** | **Samples** |
| --- | --- | --- | --- |
| Mean Treatment | Mean |  | {Treatment} |

# Evaluation model

## Criteria

Number of criteria: 1

1. Criteria

| **Criterion ID** | **Criterion parameters** | **Tests** | **Statistics** | **Label** |
| --- | --- | --- | --- | --- |
| Marginal power | alpha = 0.025 | Placebo vs treatment |  | Placebo vs treatment |

# Simulation results

## Outcome Parameter 1

1. Results summary

| **Sample Size** | **Criterion** | **Test/Statistic** | **Result** |
| --- | --- | --- | --- |
| N = 55 | Marginal power | Placebo vs treatment | 0.8466 |
| N = 60 | Marginal power | Placebo vs treatment | 0.8773 |
| N = 65 | Marginal power | Placebo vs treatment | 0.9006 |
| N = 70 | Marginal power | Placebo vs treatment | 0.9205 |
| N = 75 | Marginal power | Placebo vs treatment | 0.9366 |