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 pulmonary arterial hypertension

## Simulation parameters

Random seed: 42938001

Number of simulations: 1000

Number of cores: 4

Start time: 2015-08-20 22:23:03

End time: 2015-08-20 22:23:21

Duration (mins): 0.30 mins

# Data model

## Sample size

Number of samples: 2

Number of sample size sets: 5

1. Sample size

| **Sample size set** | **Sample** | **Size** |
| --- | --- | --- |
| N = 50 | Placebo | 50 |
| Treatment | 50 |
| N = 55 | Placebo | 55 |
| Treatment | 55 |
| N = 60 | Placebo | 60 |
| Treatment | 60 |
| N = 65 | Placebo | 65 |
| Treatment | 65 |
| N = 70 | Placebo | 70 |
| Treatment | 70 |

## Outcome distribution

Number of outcome parameter sets: 2

Outcome distribution: Normal

1. Outcome parameter

| **Outcome parameter set** | **Sample** | **Parameter** |
| --- | --- | --- |
| Standard 1 | Placebo | mean = 0, SD = 70 |
| Treatment | mean = 40, SD = 70 |
| Standard 2 | Placebo | mean = 0, SD = 70 |
| Treatment | mean = 50, 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} |

# Outcome Parameter (Standard 1)

1. Results summary

| **Sample Size** | **Criterion** | **Test/Statistic** | **Result** |
| --- | --- | --- | --- |
| N = 50 | Marginal power | Placebo vs treatment | 0.8090 |
| Average Mean | Average Mean Treatment | 40.0991 |
| N = 55 | Marginal power | Placebo vs treatment | 0.8560 |
| Average Mean | Average Mean Treatment | 40.1142 |
| N = 60 | Marginal power | Placebo vs treatment | 0.8810 |
| Average Mean | Average Mean Treatment | 39.9170 |
| N = 65 | Marginal power | Placebo vs treatment | 0.9000 |
| Average Mean | Average Mean Treatment | 39.9796 |
| N = 70 | Marginal power | Placebo vs treatment | 0.9160 |
| Average Mean | Average Mean Treatment | 40.1157 |

# Outcome Parameter (Standard 2)

1. Results summary

| **Sample Size** | **Criterion** | **Test/Statistic** | **Result** |
| --- | --- | --- | --- |
| N = 50 | Marginal power | Placebo vs treatment | 0.9570 |
| Average Mean | Average Mean Treatment | 50.2538 |
| N = 55 | Marginal power | Placebo vs treatment | 0.9660 |
| Average Mean | Average Mean Treatment | 50.1426 |
| N = 60 | Marginal power | Placebo vs treatment | 0.9740 |
| Average Mean | Average Mean Treatment | 50.1545 |
| N = 65 | Marginal power | Placebo vs treatment | 0.9800 |
| Average Mean | Average Mean Treatment | 50.0855 |
| N = 70 | Marginal power | Placebo vs treatment | 0.9900 |
| Average Mean | Average Mean Treatment | 49.9990 |