

## IHP 525 Milestone Two Guidelines and Rubric

**Overview:** In the Final Project Part II: Statistics Report, you have the opportunity to demonstrate your skill at selecting and calculating appropriate biostatistical measures. In Milestone Two, you will select and calculate summary statistics to describe the data set.

**Prompt:** One way to describe data is to describe the shape, location, and spread of the data. In Milestone Two, you will select summary statistics to calculate for your data. You will also describe the source of the data and the sampling technique you think might have been used. You also need to consider limitations of the data set and the impact such limitations might have on the findings you will share later in the project. Refer to the [Statistical Report Description](#) for a description of the data set provided and uploaded in Module One.

Specifically, include the following critical elements:

- A. Assess the collected **data**. Use this section to layout the source, parameters, and any limitations of your data. Specifically, you should:
1. Describe the **key features** of your data set. Be sure to assess how these features affect your analysis.
  2. Analyze the **limitations** of the data set you were provided and how those limitations might affect your findings. Justify your response.

Also complete the [Milestone Two Table](#) to show the summary statistics you selected and the calculations.

### Rubric

**Guidelines for Submission:** In a Microsoft Word document, create a table of the summary statistics you will run on your data set (based on the table provided). Include 1–2 paragraphs describing the sample and limitations of the data set. The document should use double spacing, 12-point Times New Roman font, one-inch margins, and APA format for any citations.

**Instructor Feedback:** This activity uses an integrated rubric in Blackboard. Students can view instructor feedback in the Grade Center. For more information, review [these instructions](#).

| Critical Elements                       | Proficient (100%)  | Needs Improvement (70%)  | Not Evident (0%)   | Value |
|---|--|--|--|-------|
| <b>Introduction: Data: Key Features</b> | Describes key features of data set and assesses how features affect analysis                 | Describes key features of data set and assesses how features affect analysis, but response contains inaccuracies or omits key details                        | Does not describe key features of data set and assess how features affect analysis | 30    |
| <b>Introduction: Data: Limitations</b>  | Analyzes limitations of data set provided and how those affect findings, justifying response | Analyzes limitations of data set and how those affect findings, but does not justify response, response contains inaccuracies, or justification is illogical | Does not analyze limitations of data set and how those affect findings             | 30    |

## IHP 525 Statistical Report Description

This document provides you with a description of the data that you will need to complete Final Project Part II Milestone Two.

### *Description of the Data:*

NAME: Worcester Heart Attack Study WHAS100 Data (whas100.dat)

SIZE: 100 Observations, 9 variables

### SOURCE:

Worcester Heart Attack Study data from Dr. Robert J. Goldberg of the Department of Cardiology at the University of Massachusetts Medical School.

### REFERENCE:

Hosmer, D. W., Lemeshow, S., & May, S. (2008). *Applied survival analysis: Regression modeling of time to event data* (2nd ed.). New York, NY: John Wiley and Sons Inc.

### DESCRIPTIVE ABSTRACT:

The main goal of this study is to describe factors associated with trends over time in the incidence and survival rates following hospital admission for acute myocardial infarction (MI). Data have been collected during thirteen 1-year periods beginning in 1975 and extending through 2001 on all MI patients admitted to hospitals in the Worcester, Massachusetts, Standard Metropolitan Statistical Area.

DISCLAIMER: This data is also available at the following Wiley FTP site:  
[ftp://ftp.wiley.com/public/sci\\_tech\\_med/survival](ftp://ftp.wiley.com/public/sci_tech_med/survival).

### LIST OF VARIABLES:

| Variables | Name      | Description             | Values/Codes           |
|-----------|-----------|-------------------------|------------------------|
| 1         | id        | ID Code                 | 1-100                  |
| 2         | admitdate | Admission Date          | mm/dd/yyyy             |
| 3         | foldate   | Follow Up Date          | mm/dd/yyyy             |
| 4         | los       | Length of Hospital Stay | Days                   |
| 5         | lenfol    | Follow Up Time          | Days                   |
| 6         | fstat     | Follow Up Status        | 1 = Dead,<br>0 = Alive |
| 7         | age       | Age                     | years                  |
| 8         | gender    | Gender                  | 0 = Male<br>1 = Female |
| 9         | bmi       | Body Mass Index         | kg/m <sup>2</sup>      |

### IHP 525 Milestone Two Table

|  |  |  |
|--|--|--|
| Information on data set                              |  |  |
| Which variables are you investigating?               |  |  |
| What is the type of each variable?                   |  |  |
| List the descriptive stats you will run on the data. |  |  |
| What does each calculation tell you about the data?  |  |  |
|  |  |  |
|  |  |  |

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1. Describe the **key features** of your data set. Be sure to assess how these features affect your analysis.
2. Analyze the **limitations** of the data set you were provided and how those limitations might affect your findings. Justify your response.