StatTutor Lab: Risk Factors for Low Birth Weight

StatTutor is a learning tool that provides you with a data analysis problem, supports you as you attempt to solve it, and gives you hints and feedback along the way. It assumes that the relevant data set is open in the background.

One of the main ideas behind StatTutor is to demonstrate that when solving data analysis problems we always go through the same set of steps. Those steps are shown on the left side of StatTutor, and you will click on them in sequence as you progress through the lab. Clicking on each step will cause a new worksheet to appear for you to complete.

The Data tab in StatTutor has a pull-down menu to download the dataset for this StatTutor lab. Using the pull-down menu, select the statistics package you are using in your class and click the "Download" button. Then find the downloaded file and double-click it to open it if you're using R, StatCrunch, Minitab, or Excel, or transfer it to your calculator if you're using the TI Calculator.

Note that you must provide a correct answer to all questions in a given step or provide a written response before being able to proceed. The system will bounce you back to a page that does not have all the questions correct or is missing an answer.

WORK PLAN

- Understand the Problem
- Question 1
- Question 2
- Question 3
- Summarize

Problem | Questions | Variables | Data | About

Risk Factors for Low Birth Weight

Low birth weight is an outcome that has been of concern to physicians for years. This is due to the fact that infant mortality rates and birth defect rates are very high for babies with low birth weight. A woman's behavior during pregnancy (including diet, smoking habits, and obtaining prenatal care) can greatly alter her chances of carrying the baby to term and, consequently, of delivering a baby of normal birth weight.

In this exercise, we will use a 1986 study (Hosmer and Lemeshow (2000), *Applied Logistic Regression: Second Edition*) in which data were collected from 189 women (of whom 59 had low birth weight infants) at the Baystate Medical Center in Springfield, MA (an academic, research, and teaching hospital that serves as the western

Welcome to StatTutor!

StatTutor is a learning tool that provides you with a data analysis problem, supports you as you attempt to solve it, and gives you hints and feedback along the way. It assumes that the relevant data set is open in the background.

One of the main ideas behind StatTutor is to demonstrate that when solving data analysis problems we always go through the same set of steps. Those steps are shown on the left side of StatTutor, and you will click on them in sequence as you progress through the lab. Clicking on each step will cause a new worksheet to appear in this box for you to complete.

Note that you must provide a correct answer to all questions in a given step or provide a written response before being able to proceed. The system will bounce you back to a page that does not have all the questions correct or is missing an answer.

If you get stuck along the way, you can ask for hints by clicking on the hint button below.

To begin:

- Read the Problem description at the top of the screen to find out the context of this StatTutor exercise.
- Click the Questions tab and take a look at the questions you are going to answer.
- Click the Variables tab to see the variables in this study.
- Click the Data tab to download the dataset and preview the data.

? Hint

Previous Next