The second assignment includes a few problems from the review chapters early in the textbook, some of which require the use of statistical software. A separate handout will include examples of how to do these problems using the software R. (You may use any statistical software you desire for these problems.)

1. Chapter 1, problem 16 (page 24). This problem is mainly an exercise in using statistical software to make simple summary computations and to make graphs.

2. Chapter 2, problems 18 and 21 (page 52). The first problem asks you to use the computer to verify computations in a case study in the chapter. The second asks you to do the same and then interpret the results for related data.

3. Chapter 3, problem 31 (pages 81–82). This is a more open-ended problem asking you to select appropriate methods from the previous chapters, to carry out an analysis, and to communicate the results briefly in writing.

4. Chapter 4, problem 32 (page 111). Carry out an analysis and summarize the results. Assume that the order in which each patient received the treatments was randomized for the initial experiment, but that we do not know that order from the actual randomization. Select a single method of analysis and justify the choice. (There may be more than one appropriate choice of analysis, but some choices will be better than others.)

5. Read the Chapters 4–6 of the textbook. Write out brief answers to the Conceptual Exercises at the end of each chapter. Compare your responses with those given by the authors a few pages later. You do not need to turn in anything for this question.