

MAT: 3312 Team Lab Assignment 2 (Categorical Data Analysis)

Name: _____ Date: _____

The table below is from a sample from a larger data set collected on people discharged from a selected Pennsylvania hospital as part of a retrospective chart review of antibiotic usage in hospitals.

Table 2.11 Hospital-stay data

ID no.	Duration of hospital stay	Age	Sex 1 – M 2 – F	First temp. following admission	First WBC ($\times 10^9$) following admission	Received antibiotic 1 – yes 2 – no	Received bacterial culture 1 – yes 2 – no	Service 1 – med. 2 – surg.
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Import the hospital dataset in the SAS to answer the questions below.

Question 1. What is the distribution regarding gender in the dataset? Please provide a contingency table (with count and percent) to show the distribution of the variable. Paste results from SAS here.

Test whether there is an association between whether a patient received bacterial culture and the service the patient received? **Use the information to answer questions 2-4.**

Question 2. Perform a chi-square test and provide the contingency table from the test. Paste results from SAS here.

Question 3. What is the chi-square test statistics?

Question 4. What is the p-value?

Question 5. What is the conclusion?