Week Six

Help Center

Stratified Analysis using Logistic Regression

Having learnt about the multi-variable logistic regression last week, this week we will provide more details about confounding and adjusted odds ratio and begin our look into stratified analysis. You will learn how to execute stratified analysis using logistic regression.

You will also learn about the assumptions involved while testing for homogeneity of the odds ratios. We will illustrate the concepts of Mantel Haenszel estimation, adjusted odds ratio and confidence interval estimation with the aid of an example. We will end this week with an introduction of assessing goodness of the fit of the logistic regression model.

Lectures

Please click on the links below to access the video lectures for this sixth week

- **Stratified Analysis vs. Logistic Regression**
- **Confounding and Effect Modification**
- **Adjusted Odds Ratio and Confidence Intervals**
- **Assessing the Fit of the Logistic Regression Model**
- **Introduction of Goodness of Fit and Week Six Homework**

Lecture Material

Please click on the link below to download the slides of the sixth week

Week Six: "Stratified Analysis using Logistic Regression"

Conversations

Please join in the conversations around regression analysis in our **community forums** area. You can ask and answer questions and discover insights and help for yourself and others as we come together to encourage each other in our exploration.

Key Terms

Below are definitions of some important terms covered this week:

- **Strata**: A non-overlapping subset of the population is known as stratum. Two or more such stratum are known as strata.
- **Breslow Day Test**: The Breslow Day test is a test for homogeneity of the odds ratio. The null hypothesis of this test is that the odds ratios are constant across the strata. For p strata the test statistic has approximately a chi-squared null distribution with p-1 degrees of freedom. The test statistic of this test and Mantel Haenszel test are different.

Homework

Please watch the following video, **Homework Highlights from Week Five**, to review the homework from last week.

Navigate to the **Week Six Homework** page to view and download the homework for this week.

Quiz

After you've gone through the materials for this week please be sure to visit the **quizzes area** to complete this week's quiz.

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