Week Three

Interpreting Coefficients

Last week, we learned about how to test the significance of variables in the model through the likelihood ratio test, and subsequently how to fit a multiple logistic model. This week we will finish our discussion of model generation into the interpretation of coefficients produced from these models.

We will specifically discuss the coefficients of dichotomous independent variables, and the various methods of coding of these variables, which in turn effects the interpretation of their coefficients.

This week is crucial to understand how to appropriately utilize logistic regression models for specific analyses.

Lectures

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

- **Constructing Confidence Intervals**
- **Interpretation of Coefficients - Part 1**
- **Interpretation of Coefficients - Part 2**
- **Computer Output in STATA**
- **STATA Output and Week Three Homework**

Lecture Material

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

Week Three: "Interpreting Coefficients"

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:

- **Coefficient**: slope or rate of change of a function of the dependent variable per unit chance in the independent variable
- **Link Function**: The function of the dependent variable that leads a linear function of the independent variables
- **Dichotomous Variable**: Variable with 2 possible outcomes/level, i.e. binary (eg. disease and no disease)

Homework

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

Navigate to the **Week Three 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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