Using Logistic Regression To Predict Reading Level Among Students

By Dr. Widad Akrawi

GRIN Verlag Jan 2014, 2014. Taschenbuch. Book Condition: Neu. 210x148x3 mm. This item is printed on demand - Print on Demand Neuware - Research paper from the year 2012 in the subject Medicine - Medical Frontiers and Special Areas, grade: 4 on 4 scale (A), , language: English, abstract: Logistic regression is usually used to predict a dichotomous outcome variable on the basis of a set of continuous, dichotomous, ordinal, or categorical predictor variables. Using logistic regression can be extremely useful when analyzing complex relationships among different predictor variables, and when (some of) the predictors are not normally distributed or if the relationship between them is not linear. This paper assessed a specific database to examine whether age, socioeconomic status, teaching approach (computer versus traditional), and amount of reading predicted reading level among college students. In Chapter I, the paper presents the formulated research questions, followed by the descriptive statistics, and the results of the Chi-Square tests. In Chapter II, the results of univariate and multivariate logistic regression analyses are reported with a comparison between univariate versus multivariate results. These sections particularly discuss the Wald tests, p-values, logistic regression equations, goodness-of-fit tests, and the predictive accuracy of the logistic models....

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