

323. How Healthy is Rhode Island: Life Satisfaction and Risk Prevention Models

Tyler Simmons Roger Williams University

Advisor(s): Yajni Warnapala Roger Williams University

Multiple logistic regression allows several different components of an experiment to be observed and how they affect an overall outcome. Using the Behavioral Risk Factor Surveillance System survey data provided by the Rhode Island Department of Health, life satisfaction and preventative health models were constructed through a public health perspective. With these models it is possible to identify which aspects of people's everyday lives have the greatest effect or impact on an individual's overall health and life satisfaction. To determine which variables had the largest impact, or how they compared to other variables, several different methods were used including the log odds and odds ratios. As these were predictive models, they can be used for future years to give the Rhode Island Department of Health recommendations for better public health outcomes. The statistical analysis used for this project was performed on JMP, the Windows version of SAS.