CALIFORNIA STATE SCIENCE FAIR
2016 PROJECT SUMMARY

Name(s)
Sage C. Saling

Project Number
J1424

Project Title
Limiting Drug Interactions through an Online Dashboard Tool

Abstract

Objectives/Goals
The objective of this study is to determine if using a dashboard on the 30 most common medications for children under the age of 13 helps limit the number of harmful drug interactions reported for in the future.

Methods/Materials
Access to a computer, internet, test subjects (parents with children under the age of 13), pencil, paper, printer, red pens, black pens, and erasers. Gave out 2 assessments. One taken without dashboard for ten minutes, the second assessment taken with dashboard for ten minutes. Compared test scores from before and after using the dashboard.

Results
Several parents with children under the age of thirteen were given two identical assessments on harmful drug interactions, one to take before seeing the dashboard and the second to take while using the dashboard. Repeated trials were run to determine if using the dashboard would increase the subjects test scores by 30%. The average test score for the first assessment was 32.8%. The average test score for the second assessment was 90.75%. The total improvement score among the two scores was 59.05%. Proving my hypothesis to be correct.

Conclusions/Discussion
Repeated trials with multiple people revealed a 59.05% increase in test scores from before and after perusing the dashboard. It is concluded that using a dashboard on harmful drug interactions for children under the age of 13, can limit the number of harmful interactions in the future.

Summary Statement
I created a dashboard on harmful drug interactions, of the thirty most common medications for children under the age of 13.

Help Received
I designed, built, and tested on my subjects by myself. I got help in finding differnt programs I could program my dashboard in.