

Abstract:

Background: Pharmacy students are required to learn and retain large quantities of information. The amount of information is only getting larger as time goes by, so many students have turned to online sources for help.

SketchyPharm is a program that teaches pharmacology using visual pictures and spaced repetition but is used primarily by medical students. Before SketchyPharm was created, medical students scored around 10% lower than pharmacy students on pharmacology exams. We wanted to compare pharmacology knowledge between students that used SketchyPharm and those who did not. **Methods:** We dispersed a 20-item pharmacology quiz to be taken by medical and pharmacy students in the Saint Louis Area. The primary endpoint was comparing students who have used SketchyPharm to those who have not. The secondary endpoint was to assess if the amount of SketchyPharm reviewed effected student scores. **Results:** All participants who used SketchyPharm were medical students and correctly answered 74% of the quiz compared to 70.5% for those who did not, $P = 0.107$. For the secondary endpoint, scores based on amount of SketchyPharm reviewed showed; None = 70.5%, Little = 75%, Moderate = 80%, Most = 73%, All = 74%. **Conclusion:** SketchyPharm may be a valuable tool for pharmacy students to learn pharmacology regardless of the amount they review. Future prospective studies should be conducted to assess student growth and learning while actively reviewing SketchyPharm material as well as long term retention of students using the program 5 years ago or more.