

## ESPC 2014 - Windsor (Ontario)



### Miranda Stever

#### Killer Pain Killers

**Défi:** Santé  
**Catégorie:** Intermédiaire  
**Région:** Peterborough  
**Ville:** Peterborough, ON  
**École:** Kenner C.V.I.

**Sommaire:** This experiment tested pain relievers to discover their dissolving time, and the effects on skin samples after short term use. Chicken skin samples were placed with various pain relievers in acetic acid. Additional tablets were added every four hours. This experiment discovered variability in dissolving time and skin abnormalities from all medications tested. The rate of abnormalities was reduced with the administration of milk.

#### Biographie

My name is Miranda Stever and I live in Peterborough, Ontario. I am a grade 10 student attending Kenner CVI in the International Baccalaureate Program. I excel in school at sciences, math, and English. At school, I am a member of the student council, dance team, varsity basketball team, and the Free the Children Club. Outside of school, I am a member of the Trent Swim Club. I have competed in swim meets internationally and have won two gold, one silver, and one bronze medal at the Ontario Provincial Championships. In the future, I hope to go to university on an academic and swimming scholarship and study in the field of medicine. I got the inspiration for my project from swimming. I had a shoulder injury, and the medications were not working quickly enough for me. There, I discovered the idea to test the time it took for pain medications to dissolve, and the rest of my project came together. For future studies, I would research what effect these medications would have with long term use. For students interested in doing a science fair project, I would recommend developing an idea on a topic that they find most interesting.

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