



CWSF 2018 - Ottawa, Ontario

Kendra Prasad, Hannah McInnis

A Preliminary Study: Relationships Between Cannabis, Brain Injury and Sleep

Challenge: Health Category: Senior

Region: Lambton County

City: Plympton-Wyoming , ON, Brights Grove, ON

School: St. Patrick's H.S.

Abstract: Currently, there are no studies that indicate as to whether or not individuals

with brain injuries should use marijuana to help them sleep. Our project used Fitbits to determine the sleep stages of subjects that used and did not use marijuana and had and did not have a brain injury. We specifically found that Rapid Eye Movement sleep, essential for memory and mood,

was affected.

Biographies								
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Kendra - I am a grade 11 student at St. Patrick's Catholic Secondary School. I enjoy reading, playing the piano, travelling and attending school. I have received the Ontario Service Volunteer Award from the Brain Injury Association. My partner and I wanted to choose a relevant issue and decided with the legalization of cannabis in July, to research information on the topic. We found that there was not a lot of information and since I volunteer for the Brain Injury Association, we decided to orient our research to that. Using Fitbits we analyzed the sleep stages of our subjects, focusing on REM. For further investigation, we would like to assess other ... Hannah - The inspiration for this project came from a news broadcast late last year. In the broadcast it was stated that marijuana reduced REM sleep, since the circumstances involving the legalization of marijuana we decided the topic was important. My partner and I decided the topic would be both interesting and relevant, especially if we investigated the relationship marijuana had on Brain Injured individuals and their sleep patterns. If possible, my partner and I would be more than willing to continue research on this topic, as it has been both informative and educational. For all other individuals considering creating a project for the Science Fai...

Awards	Value
Excellence Award - Senior - Gold Medal	
Sponsor: Youth Science Canada	
Carleton University Entrance Award	\$4 000
Senior Gold Medallist - \$4,000 Entrance Award	
Sponsor: Carleton University	
Dalhousie University Faculty of Science Entrance Scholarship	\$5 000
Senior Gold Medallist - \$5000 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$4 000
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
University of Manitoba Entrance Scholarship	\$5 000
Senior Gold Medallist - \$5000 Entrance Scholarship	
Sponsor: University of Manitoba	
University of Ottawa Entrance Scholarship	\$4 000
Senior Gold Medallist - \$4,000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$4 000
Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: Western University	
Total	\$26 000





