

# CWSF 2015 - Fredericton, New Brunswick



## Sonia Stewart

### Monitoring Medication Adherence-Part 2

**Challenge:** Health

**Category:** Senior

**Region:** South Fraser

**City:** Surrey, BC

**School:** Earl Marriott Secondary

**Abstract:** Medication mismanagement can be avoided if adherence is monitored. Photos of blister-packed medications, taken by an automatic camera at timed intervals as they are being used, can monitor adherence. This technology can be used to test whether standard cognitive tests can predict the risk of medication mismanagement. Also, photos uploaded to the internet in real time can alert caregivers immediately when dosing errors occur.

#### Biography

I was born in BC, where I live with my parents, older sister and brother and my dog. I am currently in grade 12 in the French immersion program at Earl Marriott Secondary. I have been a member of my school's senior basketball and volleyball teams, and this year, I am also one of the leaders of my school's Global Citizens Club. I have volunteered as a counsellor at a week-long summer camp and also in my community to promote environmental education and stewardship. In my spare time, I really enjoy hanging out with my friends, listening to music and spending time outdoors. The idea for my project came from having a grandmother who has dementia. I will be continuing this research in collaboration with several clinicians this summer. This fall, I plan to continue my education at the University of British Columbia. My hope is that I will be able to use my love of science to make a positive difference in the world.

#### Awards

#### Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
<b>Total</b>	<b>\$2 000</b>