

## CWSF 2011 - Toronto, Ontario



### Keshvi Tilva

#### Transporting Vaccines: The Cold Chain

**Challenge:** Innovation

**Category:** Junior

**Region:** Peel

**City:** Oakville, ON

**School:** Sherwood Heights School - Erin Mills Campus

**Abstract:** The cold chain is an uninterrupted series of storage and distribution activities which maintain a given temperature range. For my science fair project, I tested different insulation materials, considering their R values, as well as different container designs to keep vaccines in the right temperature range, which is usually 2-8°C. The experiments were carried out in both hot and cold environments.

#### Biography

Keshvi Tilva is fourteen years old and a grade eight student at Sherwood Heights School. She lives in Oakville, Ontario with her parents and older sister. Keshvi is a member of the Oakville Soccer Club and takes CPR swimming courses. In her spare time, Keshvi enjoys drawing, spending time with her friends, singing, playing team sports and games, and enjoys doing community service whenever possible. "Transporting Vaccines: The Cold Chain", is Keshvi's first science fair project and it won first place in her division (Gr 6-8). She got to go to the Peel Science Fair, where she won silver and a speciality award from the Ontario Association of Medical Laboratories and further selected to represent Peel at the Canada Wide Science Fair. Keshvi's future plans include going to high school and university. Keshvi aspires to earn a career in the medical field as an optician or a pediatrician.