

# Cold Chain and Simultaneous Injection Study



**Type of Project:** Research/Education

**Organization:** Windsor-Essex County Health Unit  
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## Objectives:

### *Storage and Handling*

1. To identify the rate of HCP cold chain compliance in Windsor-Essex County.
2. To identify barriers to guideline compliance.
3. To raise awareness regarding the importance of compliance, through computer based training.

### *Vaccine Delivery*

1. To identify the reason for the unequal usage of Pentacel® compared to Prevnar®.
2. To raise awareness and increase HCP confidence in delivering multiple injections, in order to increase the use of Prevnar®, through computer based training.

**Target Audience:** Healthcare Professionals (HCPs)

**Project Summary:** This project involves three research components measuring:

Vaccine Storage and Handling Compliance	Publicly Funded Immunization Schedule for Ontario (PFIS) compliance	Training Effectiveness
n= 120 - 160 HCP offices		n = 50
On site personal interviews and visual inspections will be conducted to determine baseline compliance with vaccine storage and handling guidelines. The same data will be collected in a six month follow up visit.	A self reporting survey will be distributed during on site office visits. The survey will measure agreement and compliance with PFIS, routine dosing schedule for Pentacel® and Prevnar®, multiple injection practices and concerns. In addition, health unit records will also be reviewed.	An online training module will be delivered to HCP offices outlining guidelines related to vaccine cold chain maintenance and simultaneous injections. Effectiveness of training will be measured by knowledge tests and a practice review at follow-up office visits.

Findings from the research will be applied to enhance further education initiatives within the region.

**Planned Completion Date: December 2008**