

# Vaccine Preventable Disease

May 2016 – August 2016

<b>Area of Focus</b> <i>(check all that apply)</i>	
Strategic Plan Direction/Goal	✓
Ontario Public Health Standard, 2008 (OPHS)	✓

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**Summary of Strategic Plan Goal and Operational Plan Objective(s):**

Coverage rates for Hepatitis B, Meningitis and HPV, according to Panorama data, will be reported to the ministry. Rates achieved will meet or exceed target rates set by the ministry.

<b>Strategic Direction:</b>	Building Healthy Communities - We will work with communities to support the health and well-being of everyone.
<b>Strategic Goal(s):</b>	We will work to improve health services for priority populations.
<b>Program Operational Objective:</b>	Coverage rates achieved will meet or exceed provincial Panorama database averages.
<b>Is this a new initiative or update of existing initiative?</b>	Existing Initiative/Program Update

**Summary of OPHS Program Requirement(s):**

<b>OPHS Program:</b>	Vaccine Preventable Diseases
<b>Goal:</b>	To reduce or eliminate the burden of vaccine preventable diseases.
<b>Strategy:</b>	Disease Prevention/Health Protection
<b>Requirement(s):</b>	<p>The board of health shall promote and provide provincially funded immunization programs to any eligible person in the health unit, including:</p> <ul style="list-style-type: none"> <li>• Board of health-based clinics;</li> <li>• School-based clinics</li> <li>• Community-based clinics; and</li> <li>• Outreach clinics to priority populations.</li> </ul> <p>The board of health shall annually, or more often as required, report to the ministry, or as specified by the ministry to the Ontario Agency for Health Protection and Promotion (Public Health Ontario), on immunization coverage rates with respect to designated diseases for school pupils and recommended vaccines for children attending a child care centre.</p>

<b>Accountability Indicator(s):</b>	#4.4 % of school-aged children who have completed immunizations for hepatitis B  #4.5 % of school-aged children who have completed immunizations for HPV  #4.6 % of school-aged children who have completed immunizations for meningococcus	<i>Monitoring</i>	<i>No target</i>  <i>No target</i>  <i>No target</i>
<b>Has a performance variance or discrepancy been identified?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

## Highlights:

Provincial coverage rates for Ontario's school-based immunization programs were 86.9%, 89.4% and 80.2% for the hepatitis B, meningococcal conjugate and human papillomavirus (HPV) vaccine programs, respectively, based on the 2012-2013 school year. This data was retrieved from a discontinued database (IRIS) and is not suitable for comparison to the subsequent data collected and stored in the Panorama database. It is anticipated that we will have provincial coverage rates available in 2017 for comparison purposes based on the Panorama database.

School based vaccine coverage rates are currently being monitored as accountability indicators using the Panorama database. Panorama was initiated to provide Ontario public health professionals with a comprehensive, secure, web-based information system to manage immunization information, vaccine inventory, and cases and outbreaks of communicable diseases. Panorama was designed to integrate the work of staff at all 36 health units, the Ministry of Health and Long-Term Care (MOHLTC), Ontario Government Pharmacy and Medical Supply Service, and Public Health Ontario (PHO). PHO has announced that they will be posting coverage rates, per health unit, on their website for hepatitis B, meningococcal conjugate and HPV school-based vaccine programs for health units to preview beginning in November 2016. During this preview process, there will be an opportunity to ask questions about these results which were derived using new methodology from PHO. Once data has been confirmed as correct, provincial and individual coverage rates are expected to be publicly posted in the spring of 2017 on the PHO website.

Existing limitations of the coverage rates collected via Panorama include:

- Physicians are not mandated to report vaccinations provided to Public Health. Therefore coverage rates for non-mandatory vaccines, such as Hepatitis B and HPV, do not always reflect the immunizations provided in external Healthcare Provider offices (eg. Twinrix provided for travel) resulting in coverage rates that appear lower than they are.
- Panorama coverage data captures only completed vaccine series. Therefore students who have received 1 dose of a 2 dose series will not be counted unless the series is completed and/or second dose is reported to public health.

**Figure 1**

<b>Coverage Rates for 2015-2016 School- based Immunization Program</b>				
<b>Accountability Indicator</b>		<b>Students Enrolled in 2015-2016</b>	<b>Students with completed Immunizations in 2015-2016</b>	<b>2015-2016 coverage</b>
<b>#4.4</b>	% of school-aged children who have completed immunizations for hepatitis B	3243	2313	68.2 %
<b>#4.5</b>	% of school-aged children who have completed immunizations for HPV	1606	896	55.8 %
<b>#4.6</b>	% of school-aged children who have completed immunizations for meningococcus	3243	2647	81.6 %

**Figure 2**

<b>2013-2016 Panorama Coverage Rates for WDGPH by School-year</b>				
<b>Accountability Indicator #</b>		<b>2013-2014 coverage Panorama data</b>	<b>2014-2015 coverage Panorama data</b>	<b>2015-2016 coverage Panorama data</b>
<b>#4.4</b>	% of school-aged children who have completed immunizations for hepatitis B	69.2%	72.2%	68.2 %
<b>#4.5</b>	% of school-aged children who have completed immunizations for HPV	56.7%	55.8%	55.8 %
<b>#4.6</b>	% of school-aged children who have completed immunizations for meningococcus	76.6%	79.5%	81.6 %

This year, the Ministry has expanded the human papillomavirus (HPV) immunization program to include boys. 2016-2017 is also the last school year that we will offer HPV vaccination to Grade 8 girls in the school program as the school immunization program will be stream-lined so that all three school-based vaccines, listed above, are offered in Grade 7. WDGPH is monitoring these changes to our school based vaccine program for related increases or decreases in vaccine uptake. As comparison and coverage data from PHO

becomes available in 2016-2017, the Vaccine Preventable Disease Program will utilize the data to provide guidance for vaccine promotion strategies and to create specific target uptake rates in our operational planning and implementation.

**Related Board or WDGPH reports:**

Board of Health Report BH.01.NOV0415.R33 – School Immunization Rates 2012-2015.