

# Infectious Diseases Vaccine Preventable Diseases Standard

---

*Mary Anne Simpson*  
*Manager – Vaccine Preventable Diseases*  
*Ministry of Health and Long Term Care*  
*November 25, 2008*

# Overview of Presentation

---

- Comparison between the 2008 Ontario Public Health Standards (OPHS) and the 1997 Mandatory Health Programs Services Guidelines (MHPSG)
- OPHS Highlights
- Cross References
- Key/Significant Changes
- Contact Information
- Questions/Discussion

# Comparison between OPHS and MHPSG

MHPSG	OPHS
<b>Vaccine Preventable Diseases</b>	<b>Vaccine Preventable Diseases</b>
<b>Goal:</b> To reduce the incidence of vaccine preventable diseases	<b>Goal:</b> To reduce or eliminate the burden of vaccine preventable diseases
<p><b>Objective:</b></p> <p>To eliminate indigenous measles by the year 2000.</p> <p>2. To maintain at zero the incidence of tetanus and diphtheria and indigenous polio.</p> <p>3. To reduce to zero the incidence of invasive <i>Haemophilus influenzae</i> type b (Hib) among children under five years of age.</p> <p>4. To reduce to zero the incidence of indigenous congenital rubella.</p> <p>5. To reduce the annual incidence rate of mumps to 1.0 per 100,000 and pertussis to 2.5 per 100,000 population by the year 2005.</p> <p>6. To reduce the annual incidence rate of acute hepatitis B to 1.5 per 100,000 population by the year 2000.</p> <p>7. To reduce the age-adjusted mortality rate for pneumonia and influenza (using a five-year moving average).</p> <p>8. To achieve the following vaccine coverage targets by the year 2000:</p> <p>a. 95 per cent coverage for up-to-date vaccination against diphtheria, pertussis, polio, tetanus, <i>Haemophilus influenzae</i> type b (Hib), measles, mumps and rubella by the second birthday;</p> <p>b. 95 per cent coverage for up-to-date vaccination against diphtheria, pertussis, polio, tetanus, and measles, mumps, rubella and second dose measles by the seventh birthday;</p>	<p><b>Societal Outcomes and Board of Health Outcomes</b></p>

# Comparison between OPHS and MHPSG

MHPSG	OPHS
<b>Vaccine Preventable Diseases</b>	<b>Vaccine Preventable Diseases</b>
<b>Goal:</b> To reduce the incidence of vaccine preventable diseases	<b>Goal:</b> To reduce or eliminate the burden of vaccine preventable diseases
<p><b>Objective:</b></p> <ul style="list-style-type: none"> <li>c. 95 per cent coverage for hepatitis B vaccination by the end of grade 7.</li> <li>d. 100 per cent coverage for hepatitis B vaccination of infants born to mothers who are hepatitis B carriers;</li> <li>e. 95 per cent coverage for pneumococcal and annual influenza vaccination of residents of long term care facilities;</li> <li>f. 70 per cent coverage for pneumococcal and annual influenza vaccination for persons age 65 years and older and persons with high-risk conditions; and</li> <li>g. 70 per cent coverage for annual influenza vaccination of health care workers in contact with high risk individuals.</li> <li>9. To minimize wastage of provincially-funded vaccines to five per cent or less.</li> <li>10. To monitor adverse events associated with provincially-funded vaccines.</li> </ul>	<p><b>Societal Outcomes and Board of Health Outcomes</b></p>

# OPHS Highlights

---

## Goal

- To reduce or eliminate the burden of vaccine preventable diseases.

## Societal Outcomes

- There is reduced incidence of vaccine preventable diseases.
- Target coverage rates for vaccine preventable diseases are achieved.
- There is increased health care provider knowledge of immunization.
- There is increased public knowledge of immunization.
- There is improved effectiveness of publicly funded immunization programs.
- There is a reduced incidence rate of adverse events following immunization.
- There is reduced vaccine wastage.

# OPHS Highlights

---

## Board of Health outcomes

- The board of health achieves timely and effective detection and identification of children susceptible to vaccine preventable diseases, their associated risk factors, and emerging trends.
- The board of health achieves timely and effective detection and identification of priority populations facing barriers to immunization, their associated risk factors, and emerging trends.
- The board of health is aware of and uses epidemiology to influence the development of healthy public policy and its programs and services to reduce or eliminate the burden of vaccine preventable diseases.
- The public is aware of the importance of immunization across the lifespan.
- Health care providers report adverse events following immunization to the board of health.
- Health care providers are knowledgeable of improved practices related to proper vaccine management, including storage and handling.

# OPHS Highlights

---

## Board of Health outcomes

- Target coverage rates for provincially funded immunizations are achieved.
- The board of health effectively responds to vaccine preventable disease outbreaks.
- The public is aware of the availability of travel health services, including immunizations for travellers.
- Health care providers adhere to proper vaccine management, including storage and handling practices and inventory management.
- Vaccines are distributed in an equitable and timely manner that adheres to proper vaccine management, including storage and handling practices.
- The board of health achieves timely and effective detection and identification of adverse events following immunization.
- Children have up-to-date immunizations according to the current Publicly Funded Immunization Schedules for Ontario and in accordance with the *Immunization of School Pupils Act* and the *Day Nurseries Act*.

# OPHS Highlights

---

## ASSESSMENT AND SURVEILLANCE

- Assess, maintain records and report on immunization status of children in licensed child care programs, attending school, and immunizations administered at board of health-based clinics.
- *MHPSG Vaccine Preventable Diseases Standard specified board of health (BOH) assess immunization records of children attending school only.*
- Conduct epidemiological analysis of surveillance data, including monitoring of trends over time, emerging trends, and priority populations.
- *MHPSG Vaccine Preventable Diseases Standard specified entering routine immunization records into the Immunization Record Information System and analyzing local vaccine coverage rates and reporting to the Ministry of Health and Long-Term Care at least annually to identify emerging trends and high-risk populations.*

# OPHS Highlights

---

## HEALTH PROMOTION AND POLICY DEVELOPMENT

- **Work with community partners to improve public knowledge and confidence in immunization programs and supplement national and provincial health communication strategies and/or develop and implement regional/local communications strategies.**
- **Topics that must be included are specifically listed e.g. importance of immunization, vaccine safety, etc.**
- ***MHPSG Vaccine Preventable Diseases Standard specified that BOH promote immunization through education targeted at various stakeholders e.g. educational facilities.***
- **Promote the reporting of adverse events following immunization by health care providers to the local board of health.**
- ***Requirement did not exist under MHPSG Vaccine Preventable Diseases Standard.***

# OPHS Highlights

---

## HEALTH PROMOTION AND POLICY DEVELOPMENT

- Provide a comprehensive information and education strategy to promote optimal vaccine management, including storage and handling practices, among health care providers (e.g. training, distributing information, other support).
- *MHPSG Vaccine Preventable Diseases Standard specified optimizing vaccine use by education of health care providers in procedures of proper vaccine usage, storage and handling.*
- Provide consultation to community partners to develop immunization policies (e.g. workplace policies) based on local need and as requested.
- *Requirement did not exist under MHPSG Vaccine Preventable Diseases Standard.*

# OPHS Highlights

---

## DISEASE PREVENTION

- **Promote and provide provincially funded immunization programs to any eligible person in the health unit (includes BOH clinics, school-based clinics, community-based clinics, outreach clinics to priority populations).**
- ***MHPSG Vaccine Preventable Diseases Standard specified ensuring that eligible person residing in the health unit had access to immunization for provincially-funded vaccines.***
- **Have a contingency plan to deploy board of health staff capable of providing vaccine preventable disease outbreak management and control such as mass immunization in the event of a community outbreak.**
- ***Requirement did not exist under MHPSG Vaccine Preventable Diseases Standard.***

# OPHS Highlights

---

## HEALTH PROTECTION

- **Ensure the storage and distribution of provincially funded vaccines including to health care providers practicing within the health unit.**
- ***MHPSG Vaccine Preventable Diseases Standard specified ensuring that provincially-funded vaccines were available to physicians practicing within the health unit.***
- **Promote vaccine inventory management in all premises where provincially funded vaccines are stored.**
- ***MHPSG Vaccine Preventable Diseases Standard specified ensuring cold chain maintenance in premises where vaccine is stored by inspecting at least once annually to ensure they adhere to minimum requirements.***

# OPHS Highlights

---

## HEALTH PROTECTION

- **Monitor, investigate, and document all suspected cases of adverse events following immunization that meet provincial reporting criteria.**
- ***MHPSG Vaccine Preventable Diseases Standard specified investigating all reported cases of adverse vaccine events for appropriate management and case reporting to the Ministry of Health and Long-Term Care.***
- **Ensure that process for the assessment of the immunization status of children in licensed day nurseries is followed.**
- ***Requirement did not exist under MHPSG Vaccine Preventable Diseases Standard.***

## Cross References

---

- Infectious Diseases Protocols Named in Vaccine Preventable Diseases Standard:
  - Immunization Management Protocol, 2008
  - Infectious Diseases Protocol, 2008
  - Vaccine Storage and Handling Protocol, 2008
- Other Protocols Named in Vaccine Preventable Diseases Standard:
  - Population Health Assessment and Surveillance Protocol, 2008

# Key/Significant Changes

---

## New – VPD Standard (2008)

- **Principle based program standards**
- **Focused practice sections clearly define accountabilities**
- **Individual standard has clearly defined requirements**  
(Assessment & Surveillance, Health Promotion and Policy Development, Disease Prevention, Health Protection)
- **Performance Measures will be developed**
- **Protocols provide specific technical information**

## Old – MHPSG (1997)

- **Disease incidence rates maintained, reduced or eliminated-various years**
- **Achieve specific vaccine coverage targets by disease and year**  
(70% coverage for annual influenza vaccination of HCW in contact with high risk individuals.)
- **General requirements and standards combined**  
(Influenza vaccine – high risk only)
- **Lacked supportive protocols and best practice documents**  
(Vaccine Storage & Handling Guidelines, 1998)

## Contact Information

---

### For further inquiries, please contact:

- Mary Anne Simpson, Manager, Vaccine Preventable Diseases, Infectious Diseases Branch
  - Telephone: (416) 327-7416
  - Email: [MaryAnne.simpson@ontario.ca](mailto:MaryAnne.simpson@ontario.ca)
- Cassandra LoFranco, Manager, Infectious Diseases Branch
  - Telephone: (416) 326-1270
  - E-mail: [cassandra.lofranco@ontario.ca](mailto:cassandra.lofranco@ontario.ca)

# Questions/Discussion