

Appendix A: Disease-Specific Chapters

Chapter: Herpes, neonatal

Herpes, neonatal

- Communicable
 Virulent

Health Protection and Promotion Act: Ontario Regulation 559/91 – Specification of Reportable Diseases

1) Aetiologic Agent:	Herpes simplex virus (HSV) in the virus family Herpes-viridae. HSV types 1 and 2 can be differentiated immunologically (1).
2) Case Definition:	
Surveillance Case Definition	See Appendix B
Outbreak Case Definition	Not applicable
3) Identification:	
Clinical Presentation	Neonatal infections can be divided into 3 clinical presentations (2): <ul style="list-style-type: none">• Disseminated infections involving the liver and lungs• Localized central nervous system (CNS) disease• Infections limited to skin, eyes or mouth
Diagnosis	See Appendix B
4) Epidemiology:	
Occurrence	Worldwide; 50-90% of adults possess circulating antibodies against HSV-1; initial infection with HSV-1 usually occurs before the fifth year of life (1). Cases of neonatal herpes have fluctuated in the province of Ontario over the years, and continue to remain fairly low, with approximately 5 cases per year.
Reservoir	Humans
Modes of Transmission	Transmission to the neonate usually occurs during passage through the infectious birth canal and less commonly in utero.
Incubation Period	From 2-12 days (1); in newborns, the infection may be present at birth or may occur as late as four weeks of age (2).
Period of Communicability	Infected newborns are infectious for the duration of the illness.

Susceptibility and Resistance	Humans are probably universally susceptible (1).
5) Reporting Requirements:	
To local Board of Health	Confirmed cases shall be reported to the medical officer of health by persons required to do so under the <i>Health Protection and Promotion Act</i> , R.S.O. 1990.
To Public Health Division (PHD)	<p>Report only case classifications specified in the case definition to PHD.</p> <p>Cases shall be reported using the integrated Public Health Information System (iPHIS), or any other method specified by the Ministry within five (5) business days of receipt of initial notification as per <i>iPHIS Bulletin</i> Number 17: Timely Entry of Cases (3).</p> <p>The minimum data elements to be reported for each case is specified in the following:</p> <ul style="list-style-type: none"> • <i>Ontario Regulation 569</i> (Reports) under the Health Protection and Promotion Act (HPPA); • The disease-specific User Guides published by the Ministry, and • Bulletins and directives issued by the Ministry.
6) Prevention and Control Measures:	
Personal Prevention Measures	Refer to the Society of Obstetricians and Gynaecologists of Canada resource listed below for more information.
Infection Prevention and Control Strategies	Contact precautions are recommended for neonates in hospital or rooming in with mother in a private room (2).
Management of Cases	No case management for herpes neonatal. Reported for prevalence purposes only. Refer to Ontario Regulation 569 under the HPPA for relevant data to collect.
Management of Contacts	Not applicable (1)
Management of Outbreaks	Not applicable (1)
7) References	<p>(1) Heymann D, editor. Control of communicable diseases manual. 18th ed. Washington: American Public Health Association; 2004.</p> <p>(2) Pickering LK, Baker CJ, Long SS, McMillan JA, editors. Red book: 2006 report of the Committee on Infectious Diseases. 27th ed. Elk Grove Village, IL: American Academy of Pediatrics; 2006. Section 3, Summaries of infectious diseases; p. 361-5.</p>

	(3) Ministry of Health and Long-Term Care. Timely entry of cases. iPHIS Bulletin. 2007 May 11;17.
8) Additional Resources	<p>Ontario Hospital Association; Ontario Medical Association. Herpes simplex surveillance protocol for Ontario Hospitals. Toronto: Ontario Hospital Association; 2008. Available from http://www.oha.com/Client/OHA/OHA_LP4W_LND_WebStation.nsf/resources/Communicable+Disease+Surveillance+Protocols/\$file/Herpes+Simplex+Protocol+--+Reviewed+Oct+2008.pdf.</p> <p>Society of Obstetricians and Gynaecologists of Canada [Internet]. Ottawa: Society of Obstetricians and Gynaecologists of Canada; 2009 [cited 2009 Feb 10]. Available from http://www.sogc.org/index_e.asp.</p> <p><i>Health Protection and Promotion Act</i>, R.S.O. 1990, c. H.7. Available from http://www.e-laws.gov.on.ca/html/statutes/english/elaws_statutes_90h07_e.htm.</p>

