

# Appendix B: Provincial Case Definitions for Reportable Diseases

Disease: Hepatitis B

Revised January, 2012

# Hepatitis B

## 1.0 Provincial Reporting

Confirmed cases of disease

## 2.0 Type of Surveillance

Case-by-case

## 3.0 Case Classification

### 3.1 Confirmed Case (Acute Case)

Laboratory confirmation of infection:

- Detection of Hepatitis B surface antigen (HBsAg)-and Immunoglobulin M (IgM) antibody to Hepatitis B core antigen (anti-HBc) in the context of a compatible clinical history or probable exposure

**OR**

- Loss of HBsAg over 6 months in the context of a compatible clinical history or probable exposure

### 3.2 Chronic Case (Carrier)

Laboratory confirmation of infection:

- Detection of HBsAg with a negative IgM anti-HBc
- OR**
- Presence of HBsAg for over 6 months
- OR**
- Presence of HBV DNA for over 6 months

### 3.3 Probable Case (Acute Case)

- Acute clinically compatible signs and symptoms in a person with an epidemiologic link to a laboratory-confirmed case

**OR**

- Acute clinically compatible signs and symptoms and detection of HBsAg (and anti-Hepatitis A virus [HAV] and Hepatitis C virus [HCV] negative) when the test for IgM antibody to anti-HBc is not available

## 4.0 Laboratory Evidence

### 4.1 Laboratory Confirmation

Any of the following will constitute a confirmed case of Hepatitis B:

Positive for HBsAg confirmed by one or more of the following:

- Positive anti-HBc Immunoglobulin G (IgG)/IgM
- Neutralization of HBsAg with anti-HBs
- Positive for Hepatitis B virus (HBV) deoxyribonucleic acid (DNA)

### 4.2 Approved/Validated Tests

- HBV test for HBsAg
- HBV test for anti-HBc IgG/IgM
- Nucleic acid amplification test (NAT) or hybridization tests for HBV DNA

#### 4.3 Indications and Limitations

- Some chronic cases of hepatitis B can have an acute **exacerbation** of their chronic hepatitis B infection and may develop detectable anti-HBc IgM antibodies.

#### 5.0 Clinical Evidence

A clinical consultation is necessary for diagnosis

#### 6.0 ICD Code(s)

ICD 10 Code B16

#### 7.0 Comments

N/A

#### 8.0 References

- Case Definitions for Communicable Diseases under National Surveillance. [Internet]. November 2009. Can Commun Dis Pre. 2009; 35 Suppl 2:i-11 1-123. Available from <http://www.phac-aspc.gc.ca/publicat/ccdr-rmtc/09pdf/35s2-eng.pdf>
- National Notifiable Diseases Surveillance System. Case Definitions. [Internet]. Hepatitis B, Acute; 2000. Atlanta, GA: Centers for Disease Control and Prevention (CDC); 2008. [cited 2009 Feb 12]. Available from <http://www.cdc.gov/ncphi/diss/nndss/casedef/hepatitisb2000.htm>.
- Heymann D, editor. Control of communicable diseases manual. 18th ed. Washington: American Public Health Association; 2004.
- Ministry of Health and Long-Term Care, Public Health Division. iPHIS manual. Toronto, ON: Queen's Printer for Ontario; 2005.
- Nationally Notifiable Diseases Case Definitions with Canadian Public Health Laboratory Network (CPHLN) and Epidemiologic Group Draft Edits. March 2007. Based on case definitions as written in the: Health Canada. Case definitions for diseases under national surveillance. Can Commun Dis Rep. 2000; 26 Suppl 3:i-iv 1-122. Available from <http://www.phac-aspc.gc.ca/publicat/ccdr-rmtc/00pdf/cdr26s3e.pdf>.

