Appendix B: Provincial Case Definitions for Diseases of Public Health Significance

Disease: Blastomycosis

Effective: February 2019
Blastomycosis

1.0 Provincial Reporting
Confirmed and probable cases of disease

2.0 Type of Surveillance
Case-by-case

3.0 Case Classification

3.1 Confirmed Case
Laboratory confirmation of infection:
- Positive *Blastomyces dermatitidis* and *Blastomyces gilchristii* (*B. dermatitidis/gilchristii*) culture with confirmation using a validated method;
  OR
- Molecular confirmation by nucleic acid amplification test (NAAT) testing or through sequencing analysis

3.2 Probable case
Laboratory evidence of infection by visualization of characteristic *B. dermatitidis/gilchristii* large, broad-based, budding yeast through direct microscopic examination of patient specimens.

4.0 Laboratory Evidence

4.1 Laboratory Confirmation
Any of the following will constitute laboratory confirmation of a case of Blastomycosis:
- Positive *B. dermatitidis/gilchristii* culture with confirmation using a validated method
- Molecular confirmation by NAAT testing or through sequencing analysis

4.2 Approved/Validated Tests
- Standard culture for *B. dermatitidis/gilchristii* with confirmation using a validated method
- Direct visual exam by microscopy
- Molecular confirmation by NAAT testing or through sequence analysis
5.0 ICD 10 Code(s)
B40.0 Acute pulmonary blastomycosis
B40.1 Chronic pulmonary blastomycosis
B40.2 Pulmonary blastomycosis, unspecified
B40.3 Cutaneous blastomycosis
B40.7 Disseminated blastomycosis Incl.: Generalized blastomycosis
B40.8 Other forms of blastomycosis
B40.9 Blastomycosis, unspecified

6.0 Comments
Although urine antigen and serological testing is available, the sensitivity and specificity are poor, and therefore they are not generally recommended. If a patient has a reactive Blastomyces serology result, it is recommended that appropriate specimens be collected for microscopy and culture.

7.0 Sources

8.0 Document History
Table 1: History of Revisions

<table>
<thead>
<tr>
<th>Revision Date</th>
<th>Document Section</th>
<th>Description of Revisions</th>
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<tr>
<td>March 2018</td>
<td>Entire appendix</td>
<td>Blastomycosis was designated as a disease of public health significance effective May 1, 2018.</td>
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<tr>
<td>February 2019</td>
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