

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

Disease: Paratyphoid Fever

Effective: February 2019

Paratyphoid Fever

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 with or without clinically compatible signs and symptoms:

- Isolation of *Salmonella* Paratyphi A, B, or C (excluding *S. Paratyphi* B variant Java) from an appropriate clinical specimen (e.g., sterile site, blood, stool, urine)

3.2 Probable Case

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

4.0 Laboratory Evidence

4.1 Laboratory Confirmation

The following will constitute a confirmed case of paratyphoid fever:

- Positive *S. Paratyphi* A, B, or C culture (excluding *S. Paratyphi* B variant Java)

4.2 Approved/Validated Tests

- Standard culture for *S. Paratyphi* A, B, or C
- Serotyping for O, H and K antigens

4.3 Indications and Limitations

- Further typing (e.g. serotype, pulsed field gel electrophoresis (PFGE), or whole genome sequencing (WGS)) may be conducted as appropriate to support linkage between cases.

5.0 Clinical Evidence

Clinically compatible signs and symptoms are characterized by insidious onset of sustained fever, headache, malaise, anorexia, relative bradycardia, constipation or diarrhea.

6.0 ICD 10 Code(s)

A01.1 Paratyphoid fever A

A01.2 Paratyphoid fever B

A01.3 Paratyphoid fever C

A01.4 Paratyphoid fever, unspecified

7.0 Comments

Note that *Salmonella* Paratyphi B variant Java should be reported as a case of salmonellosis, not paratyphoid fever.

8.0 Sources

Heymann DL, editor. Control of communicable diseases manual. 20th ed. Washington, DC: American Public Health Association; 2015.

9.0 Document History

Table 1: History of Revisions

Revision Date	Document Section	Description of Revisions
December 2014	General	New template. Title of Section 8.0 changed from “References” to “Sources”. Section 9.0 Document History added.
December 2014	3.1 Confirmed Case	Addition of “(excluding <i>S. Paratyphi</i> B variant Java)” to first bullet.
December 2014	3.2 Probable Case	Addition of “OR Positive Nucleic Acid Amplification Test (NAAT) for <i>Salmonella</i> Paratyphi without culture confirmation”.
December 2014	4.1 Laboratory Confirmation	Addition of “(excluding <i>S. Paratyphi</i> B variant Java)”.

Revision Date	Document Section	Description of Revisions
December 2014	4.2 Approved/ Validated Tests	Addition of second bullet "NAAT for S.Paratyphi".
December 2014	4.3 Indications and Limitations	"Further strain characterization is indicated for public health purposes" changed to "Further strain typing (e.g. serotype, phage typing, PFGE) is conducted, as appropriate and may be used to support linkage of cases."
December 2014	7.0 Comments	Addition of "Note that <i>Salmonella</i> Paratyphi B variant Java should be reported as a case of salmonellosis, not paratyphoid fever."
December 2014	8.0 Sources	Updated.
February 2019	General	Minor revisions were made to support the regulation change to Diseases of Public Health Significance.
February 2019	3.2 Probable Case	Removal of "OR Positive Nucleic Acid Amplification Test (NAAT) for <i>Salmonella</i> Paratyphi without culture confirmation".
February 2019	4.2 Approved/ Validated Tests	Removal of second bullet "NAAT for S. Paratyphi".
February 2019	6.0 ICD 10 Code(s)	Entire section revised.

