

Document History:

Title: **Critical Results Reporting:
Rural Clinical Microbiology
Labs** **Site(s):** **Shared Health Diagnostic
Services
The Pas, Thompson**

Document #:	120-20-03	Version #:	08
Section:	Clinical Microbiology	Subsection:	Rural

Approved by: <i>(approval on file)</i>	Joelle Carlson	Date:	4-DEC-2024
		Effective Date:	5-DEC-2024

Details of Recent Revisions:

- Appendix I Reporting Protocols – 8.0 SARS-CoV-2 (COVID-19) NAAT: section removed

DISCLAIMER: Please be advised that printed versions of any policy, or policies posted on external web pages, may not be the most current version of the policy. Although we make every effort to ensure that all information is accurate and complete, policies are regularly under review and in the process of being amended and we cannot guarantee the accuracy of printed policies or policies on external web pages. At any given time, the most current version of any Shared Health Inc. policy will be deemed to apply. Users should verify that any policy is the most current policy before acting on it.

1.0 Purpose

To provide a policy outlining the process for communicating critical microbiology test results from rural Shared Health Microbiology laboratories.

2.0 Definitions

A critical microbiology test result is one that requires immediate notification from the microbiology laboratory, as the information will have an immediate impact on care, therapy, or isolation precautions for the patient.

3.0 Policy

The Shared Health clinical microbiology laboratories at different rural sites communicate these critical test results using a variety of rapid methods (e.g. fax, phone, and computer-generated fax) but in all cases there will also be a traditional result report sent using the standard reporting format.

4.0 Procedure (when applicable)

- Any microscopy result (Gram) requested STAT should be processed, read and reported in WebMicro within one hour. Only results deemed critical in Appendix I require further notification (i.e., phone call, fax, etc.).
- Phoned results:
 - Preference is to give results to nurse in charge of the patient or physician (ward clerk may be given results if other staff unavailable).
 - Verbal report will be given to caregiver by lab technologist.
 - Read back verbal confirmation is required from caregiver to lab technologist.
 - The name of the person to whom the results are given must be recorded in the PHONED format in the LIS: First Name and Last Name. The individual who receives the report must read the results back. This information must be documented in the LIS.
 - On-call physicians may be contacted via the paging operator.
- Faxed results:
 - Manual fax: A standardized fax form may be used. Necessary information will be provided on the fax form, refer to Shared Health policy# 10-60-12 "Transmission of Personal Health Information via Fax". A copy of the faxed page as well as the "confirmation" of fax sent will be retained for records.
 - LIS-fax: These faxes are generated directly by the lab computer and all tracking of sender, recipient and time sent are automatically captured.
- The rural site-specific instructions for whom to phone or fax is given in Appendix I.
- If the results are amended (i.e., errors corrected, or additional results added) the amended results will be reported urgently as well.
- Deceased Patients:

When a critical result is phoned and you are informed the patient is deceased, please add this information to the scratch pad along with the first and last name of the person providing this information. Do not record any information in Mphone. Subsequent ward and ID notifications are not required. All other procedures (IP&C, public health) remain notifiable at the time of identification, where appropriate.
- Only send IP&C results to the IP&C professional responsible for the site where the sample originated if applicable, e.g., send inpatient notifiable results from TGH to TGH IP&C. (This excludes automatic results generated by the TCP.)

5.0 Appendices

APPENDIX I: Reporting Protocols

APPENDIX II: Microbiology Lab: Reportable Organisms

6.0 References

- Clinical Microbiology Blood Culture Procedure Manual, Shared Health document# 120-10-07
- Clinical Microbiology Sterile Fluids & Tissues Procedure Manual, Shared Health document# 120-10-15
- Clinical Microbiology Bench Procedure Manual Rural, Shared Health document# 120-20-02
- Principles and Procedures for Blood Cultures; Approved Guideline, Clinical Labs Standards Institute (CLSI) M47-A Vol. 27, No. 17, 2007

- Mycobacterial Culture Procedure Manual, Clinical Microbiology Discipline, Microbiology Laboratory, St. Boniface General Hospital, and Health Sciences Centre.
- Manitoba Health – Reportable Diseases and Conditions by Laboratories March 2015
- Reporting Critical Values, Shared Health Manitoba, doc# 100-10-06

7.0 Abbreviations

CDC	Communicable Diseases
CSF	Cerebrospinal fluid
dx	Diagnosis
FR	Fax report
IC	Infection Control
ICP	Report to Infection Control
LIS	Laboratory Information System
NA	Not applicable – test referred out
NU	Nursing units
P	Phone
PR	Paper Report
TGH	Thompson General Hospital
TPHC	The Pas Health Centre

APPENDIX I Reporting Protocols

1.0 Blood

Initial Gram Stain	TPHC
Nursing Units	P & FR
Transfusion Medicine – submitted product or blood culture	P ^a

^aContact on-call Transfusion Medicine Physician – obtain number from hospital switchboard

2.0 CSF

Initial Gram Stain (Positive results only i.e. organisms seen)	TPHC
Nursing Units	P & FR
Culture (+) Results	
Nursing Units	P & FR

3.0 Sterile Sites

Initial Gram Stain (Positive results only i.e. organisms seen)	TPHC
Nursing Units	P & FR
Culture (+) Results (Significant isolates only) ^b	
Nursing Units	P & FR

^bIn consultation with Microbiologist (if significance of isolate is questionable). Call only if original Gram was negative or if the culture is discordant with the original Gram stain.

4.0 Reportable Organisms (any site) – refer to Appendix II for list

Appendix II listing	TPHC
Confirmed (IC, CDC)	FR
Nursing Units	P & FR

5.0 C. difficile Toxin

Positive Toxin Result	TPHC
Nursing Units	P & FR
CDC	NA
IC	FR

6.0 Wound or Sterile Site Cultures

Any β -Haemolytic <i>Streptococcus</i> spp. or <i>S. aureus</i> with dx of necrotizing fasciitis	TPHC
Nursing Units	P
IC	FR

7.0 MRSA & VRE^d

	TPHC
Nursing Units ^c (Inpatients) – applies to MRSA only	P & FR
IC	FR

^cPhone notification is not required if the patient has been discharged or if previous MRSA in the last 3 months.

^dPhone notification to the ward is not required for VRE.

APPENDIX II Microbiology Lab: Reportable Organisms

Microorganism	CPL (Send isolate)	IP&C**** (Report result)	CDC (Report result)	CMOH***** (Notify)	Phone Nursing Unit
<i>Acinetobacter</i> species resistant to ≥ 3 antimicrobics, or resistant to Carbapenems	✓	✓			N
<i>Bacillus anthracis</i> (suspect)	✓	✓	✓	✓	Y
<i>Blastomyces dermatitidis</i>			✓		Y
<i>Bordetella pertussis</i>	No culture done	✓	✓		Y
BORSA (Borderline Oxacillin Resistant <i>S. aureus</i>) – for CF patients only (HSC)		✓			N
<i>Brucella</i> species (suspect)	✓	✓	✓		Y
<i>Burkholderia cepacia</i> (new CF patient)	✓ (Isolates to NML via CPL, once per year)	✓ (HSC & WL)			N
<i>Campylobacter</i> species		✓	✓		Y
<i>Candida auris</i>	✓	✓			Y
Carbapenem resistant Enterobacterales	✓*	✓			N
Carbapenemase-producing Gram-negative (confirmed)	✓	✓			Y
<i>Clostridium difficile</i> (toxin positive, enterics only)		✓	✓		Y
<i>Clostridium tetani</i>		✓	✓		Y
<i>Corynebacterium diphtheriae/ulcerans/pseudotuberculosis</i>	✓	✓ (toxigenic only from wounds; all isolates from throats)	✓ (toxigenic)	✓ (toxigenic)	Y (toxigenic)
<i>Coxiella burnetii</i>			✓	✓	
CSF Gram stain Gram-negative diplococci		✓ (ID also)	✓	✓	Y
Dermatophytes (ring worm)		✓ (WL – inpatients only)			N
Enterobacterales resistant to all aminoglycosides		✓ (HSC & WL)			N
<i>Escherichia coli</i> O157	✓	✓	✓		Y
<i>Escherichia coli</i> – other verotoxin producing		✓	✓		Y
<i>Francisella</i> species (suspect)	✓	✓	✓		Y
<i>Haemophilus influenzae</i> – all serotypes (normally sterile body sites)	✓	✓	✓	✓ (LIS Fax MOH: 204-948-3044)	Y, as per sections 1.0, 2.0, 3.0
Influenza*****	✓*	✓ (pos and neg) Automatic reporting by LIS	✓ (pos only) Automatic reporting by LIS		Site specific, see footnotes 120-10-01
<i>Legionella</i> species (includes + <i>Legionella</i> Urinary Antigen)	✓	✓	✓		Y
<i>Listeria monocytogenes</i> – normally sterile body site	✓	✓	✓		Y, as per sections 1.0,

Microorganism	CPL (Send isolate)	IP&C**** (Report result)	CDC (Report result)	CMOH***** (Notify)	Phone Nursing Unit
					2.0, 3.0
<i>Listeria monocytogenes</i> from stillborn	✓		✓		
Methicillin Resistant <i>Staphylococcus aureus</i> – MRSA		✓			As per 7.0
<i>Mycobacterium</i> (AFB smear positive)		✓	✓**		Y
<i>Mycobacterium tuberculosis</i> complex (culture and/or PCR positive) <i>M. leprae</i> (PCR positive)		✓	✓**		Y
<i>Neisseria gonorrhoeae</i>	✓	✓	✓		Y
<i>Neisseria meningitidis</i> (invasive disease)	✓	✓	✓	✓	Y
<i>Neisseria meningitidis</i> (non-invasive – conjunctival and pneumonia)		✓			Y
<i>Pseudomonas</i> species resistant to all antibiotics (including colistin)		✓			Y
RSV	✓*	✓			Site specific, see footnotes 120-10-01
SARS-CoV-2 (COVID-19)	✓*	✓ (pos and neg) Automatic reporting by LIS	✓ (pos only) Automatic reporting by PHIMS		N
<i>S. aureus</i> (TSST-1/2 pos)	✓	✓			N
<i>S. maltophilia</i> resistant to all antibiotics		✓ (HSC)			N
<i>Salmonella</i> species (including <i>S. typhi</i>)	✓	✓	✓		Y
<i>Shigella</i> species	✓	✓	✓		Y
<i>Streptococcus</i> β-hemolytic (normally sterile body sites***)	✓ (Group A & B only)	✓	✓ (Group A from all pts and group B from neonates only (≤28 days only))		Y, as per sections 1.0,2.0,3.0
<i>Streptococcus agalactiae</i> from stillborn	✓		✓		
<i>Streptococcus pneumoniae</i> (normally sterile body sites***)	✓	✓	✓		Y, as per sections 1.0,2.0,3.0
Vancomycin Resistant <i>Enterococcus</i> species (VRE – <i>E. faecalis</i> , <i>E. faecium</i> , or other ENTIC known to have Van A/B)		✓			N
Vancomycin Intermediate or Resistant <i>Staphylococcus aureus</i>	✓	✓			Y
<i>Vibrio cholera</i>	✓	✓	✓	✓	Y
<i>Yersinia enterocolitica</i>	✓	✓			Y
<i>Yersinia pestis</i> (suspect)	✓	✓	✓	✓	Y
<i>Yersinia pseudotuberculosis</i>		✓			Y

*Do not send isolate. CPL only requires a copy of patient report and/or monthly summary and does not require isolate. For positive *Influenza* and SARS-CoV-2 forward the specimen and a copy of the patient report to CPL.

**Report to Manitoba Health only.

***Refer to JA120-10-01B for list of sterile body sites

****For Cancer Care patients: LIS-Fax & CCMB (refer to 4.0 in 120-10-01). Smear positive AFB, PCR positive AFB and culture positive *M. tuberculosis* should be faxed to Dr. Eric Bow from result search in the LIS; search by his name or enter his Dr. code (01528).

****For Cancer Care patients: Call positive influenza results.

*****Microbiologist or administrator on call to phone CMOH: 204-788-6836

Emergency After-hours: 204-788-8666

<http://www.gov.mb.ca/health/publichealth/contactlist.html>

Note: If Gram (-) diplococci are seen on a direct Gram smear for CSF, follow up with second call when organism has been identified.