

ATTACHMENT – C: Survey Instrument

Evaluation of the CDC Molecular Detection of Drug Resistance Testing Service for isolates of *Mycobacterium tuberculosis* complex (Pilot Survey Version 1, 10/19/2011)

1. How did you **first** get information on the MDDR testing service offered by CDC?
 - CDC website
 - "Dear Colleague" letter
 - Conference call with CDC
 - Professional meeting
 - Regional Training and Medical Consultation Center (RTMCC)
 - TB control program
 - Another public health laboratory
 - CDC TB Laboratory Consultant

2. Who initiates requests for the molecular detection of drug resistance (MDDR) testing at CDC? (Check all that apply.)
 - Health care provider
 - TB control program
 - Laboratory
 - Laboratory only after consultation with program staff
 - Other. Please explain: _____

3. Were you satisfied with the turnaround time for receiving results from the MDDR testing service?
 - Very satisfied
 - Satisfied
 - Neither satisfied nor dissatisfied
 - Dissatisfied
 - Very dissatisfied

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4. What is the usual timeframe for your laboratory to report interim molecular results from the MDDR service to health care providers?

- Molecular results are reported directly to health care provider within 1 business day of receipt from CDC
- Molecular results are reported directly to health care provider within 2 business days of receipt from CDC
- Reporting time to health care provider varies depending on circumstances
- Molecular results are reported to health care provider by TB Control Program
- Not applicable. Health care provider receives separate MDDR report from CDC

5. In general, does your laboratory withhold reporting molecular results from the MDDR service until conventional drug susceptibility testing is completed by **CDC**?

Yes. Please state why molecular results are withheld: _____

Sometimes. Please state why molecular results are sometimes withheld: _____

- No, molecular results are reported as soon as possible
- Not applicable. Molecular results are reported to health care provider by TB Control Program
- Not applicable. Health care provider receives separate report from CDC

6. In general, does your laboratory withhold reporting molecular results from the CDC MDDR service until conventional drug susceptibility testing is completed by **your laboratory**?

Yes. Please state why molecular results are withheld _____

Sometimes. Please state why molecular results are sometimes withheld: _____

- No, molecular results are reported as soon as possible
- Not applicable. Molecular results are reported to health care provider by TB Control Program
- Not applicable. Health care provider receives separate report from CDC

7. How are results from the CDC MDDR service reported?(Check all that apply)

- Verbally
- Copy of CDC report is provided
- CDC results are transcribed into LIMS for reporting
- Not applicable. CDC results are not reported by our laboratory

8. Does your laboratory compare **molecular** results from the CDC MDDR service with your local test results for conventional drug susceptibility with first-line drugs?
- Yes, we always compare molecular results from CDC with our local test results (Skip to question 10)
 - Sometimes we compare molecular results from CDC with our local test results (Skip to question 10)
 - No, we report the molecular results from CDC without comparing to our local test results
 - Not applicable. We do not perform first-line drug susceptibility testing

9. If you indicated that you **do not** compare molecular results from CDC with local testing, please indicate the reason (Check all that apply).
- Our laboratory is not fully qualified to compare molecular results from CDC with our local results
 - We report molecular results from CDC and results from local testing without further comparison and interpretation
 - We only compare conventional drug susceptibility test results from CDC with our local testing.
 - Other. Please explain _____
- (AFTER ANSWERING QUESTION #9, PLEASE SKIP TO #12.)

10. If you indicated that you do compare molecular results from CDC with your local testing results for first-line drugs, please indicate the reason. (Check all that apply)
- Results are compared for quality assurance purposes
 - Results are compared for increasing understanding of molecular testing
 - Results are compared to find discordance
 - Results are compared in preparation for consultation with the health care provider or TB Control Program if needed
 - Other. Please explain _____

11. If you indicated that you do compare molecular results from CDC with your own local testing results for first-line drugs, have you ever found potential discordance (i.e., mutation detected indicating potential resistance to rifampin but conventional local drug susceptibility test result was rifampin susceptible)?
- Yes, we found potential discordance between the CDC molecular result and the conventional local drug susceptibility test result
 - No, we have not found any potentially discordant results (Skip to question 13)

12. If you found discordance between the molecular results from CDC and local test results for conventional drug susceptibility what additional actions, if any, were initiated by your laboratory? (Check all that apply.)

- No additional actions were taken.
- Contacted the Division of Tuberculosis Elimination Laboratory Branch at CDC to discuss results
- Retested isolate in our laboratory
- Withheld sending CDC results to health care provider or TB Control
- Contacted TB Control Program to notify them of potential discordance
- Initiated a corrective action plan in our laboratory
- Referred an isolate from the patient to another laboratory other than CDC for molecular testing
- Referred an isolate from the patient to another laboratory other than CDC for conventional drug susceptibility testing
- Additional action taken by our laboratory depends on what drug is indicated as having the potential discordance (i.e., contact CDC about potential discordant result for rifampin but not for isoniazid)

▪ Please provide any additional information for this response: _____

13. Do you compare molecular results from CDC for potential discordance with second-line drug susceptibility test results obtained from local testing?

- Yes, always
- Yes, sometimes. Please explain: _____
- No, we do not perform second-line drug susceptibility testing
- No, we perform conventional second-line drug susceptibility testing but do not compare with molecular results from CDC

14. If the **molecular** results from the MDDR service are the **first** results available regarding susceptibility of an isolate, how do these results impact conventional drug susceptibility testing performed locally?

- Results have no impact on local testing
- Local results are disregarded
- If resistance is indicated by molecular results, isolate is referred to another laboratory other than CDC for additional testing
- Other. Please explain: _____

15. Have you observed, as indicated on the CDC final report, potential discordance between the preliminary molecular results and the phenotypic test results **reported by CDC**? (In answering this question, only consider results from CDC and not local testing.)

- Yes, we have observed discordance
- No, we have not observed discordance (Skip to question 17)
- No, we do not examine CDC results for discordance (Skip to question 17)

16. If you observed potential discordance between the preliminary molecular and final phenotypic test results **reported by CDC**, what additional actions, if any, were initiated by your laboratory? (In answering this question, only consider results from CDC and not local test results) (Check all that apply.)

- No additional actions were taken
- Contacted the Division of Tuberculosis Laboratory Branch at CDC to discuss results
- Retested isolate in our laboratory
- Withheld sending CDC results to health care provider or TB Control
- Contacted TB Control Program to notify them of potential discordance
- Referred an isolate from the patient to another laboratory other than CDC for molecular testing
- Referred an isolate from the patient to another laboratory other than CDC for conventional drug susceptibility testing
- Additional action taken by our laboratory depends on what drug is indicated as having the potential discordance (i.e., contact CDC about potential discordant result for rifampin but not for isoniazid)

- Please provide any additional information regarding action depends on the specific antituberculosis drug indicated: _____

17. Did you have any difficulty interpreting the molecular results from the MDDR service as provided on the report form?

- The results were very difficult to interpret
- The results were somewhat difficult to interpret
- The results were not difficult to interpret
- The results were very easy to interpret

18. Were you comfortable discussing interpretation of the molecular results from the MDDR service with health care providers or TB control?

- Very comfortable discussing the results
- Had some difficulty explaining the results
- In most instances, not contacted for help interpreting the results

19. If you experienced any difficulty interpreting the molecular results from the MDDR service, where did you seek help? (Check all that apply.)

- Contacted CDC TB Laboratory for help interpreting the report
- Visited the CDC website for more information on the MDDR testing service
- Consulted with other laboratory experts to interpret results
- Consulted with clinician for help in interpreting results
- Did my own research to find information on interpretation
- Contacted local TB program in consultation for interpreting the results
- Contacted RTMCC in consultation for interpreting the results
- I did not seek additional help for interpreting the results