



Laboratory Update


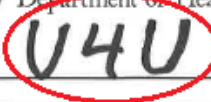
Richard Oatis, Supervisor, Maryland State TB Laboratory

September 29, 2022

Uniting for Ukraine

- Our lab is available to offer testing required for the program (QFT, smear/culture/GeneXpert, etc.)
- CDC is requiring the laboratory to report workload data for Uniting for Ukraine.
- Please write “U4U” in the top right hand corner of all lab requisitions sent as part of the program.
- We will be able to provide some extra tubes to ensure testing availability.

Example:

STATE LAB Use Only		Laboratories Administration MDH 1770 Ashland Ave • Baltimore, MD 21205 443-681-3800 http://health.maryland.gov/laboratories/ Robert A. Myers, Ph.D., Director		 MARYLAND Department of Health 	
		INFECTIOUS AGENTS: CULTURE/DETECTION			
TYPE OR PRINT REQUIRED INFORMATION OR PLACE LABELS ON BOTH COPIES	<input type="checkbox"/> EH <input type="checkbox"/> FP <input type="checkbox"/> MTY/PN <input type="checkbox"/> NOD <input type="checkbox"/> STD <input type="checkbox"/> TB <input type="checkbox"/> CD <input type="checkbox"/> COR		Patient SS # (last 4 digits):		
	Health Care Provider		Last Name <input type="checkbox"/> SR <input type="checkbox"/> JR <input type="checkbox"/> Other:		
	Address		First Name M.I.		
	City	County	Date of Birth (mm/dd/yyyy) / /		
	State	Zip Code	Address		
	Contact Name:		City County		
	Phone #	Fax #	State Zip Code		
	Test Request Authorized by:				
	Sex: <input type="checkbox"/> Male <input type="checkbox"/> Female <input type="checkbox"/> Transgender M to F <input type="checkbox"/> Transgender F to M		Ethnicity: Hispanic or Latino Origin? <input type="checkbox"/> Yes <input type="checkbox"/> No		
	Race: <input type="checkbox"/> American Indian/Alaska Native <input type="checkbox"/> Asian <input type="checkbox"/> Black/African American <input type="checkbox"/> Native Hawaiian/Other Pacific Islander <input type="checkbox"/> White				
MRN/Case #	DOC #	Outbreak #	Submitter Lab #		
Date Collected:	Time Collected:	<input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	Onset Date: / /		
Reason for Test: <input type="checkbox"/> Screening <input type="checkbox"/> Diagnosis <input type="checkbox"/> Contact <input type="checkbox"/> Test of Cure <input type="checkbox"/> 2-3 Months Post Rx <input type="checkbox"/> Suspected Carrier <input type="checkbox"/> Isolate for ID <input type="checkbox"/> Release					
Therapy/Drug Treatment: <input type="checkbox"/> No <input type="checkbox"/> Yes			Therapy/Drug Type: _____ Therapy/Drug Date: / /		
SPECIMEN SOURCE CODE		SPECIMEN SOURCE CODE		SPECIMEN SOURCE CODE	
BACTERIOLOGY		MYCOBACTERIOLOGY/AFB/TB		SPECIAL BACTERIOLOGY	
Bacterial Culture - Routine		AFB/TB Culture and Smear		Legionella Culture	
Add'l Specimen Codes: _____		AFB/TB Referred Isolate for ID		Leptospira	
<i>Bordetella pertussis</i>		<i>M. tuberculosis</i> referred Isolate for genotyping		Mycoplasma (Outbreak Investigation Only)	
Group A Strep		Nuclear Acid Amplification Test for		RESTRICTED TESTS Pre-approved submitters only	
Group B Strep Screen		<i>M. tuberculosis</i> Complex (GeneXpert)			
<i>C. difficile</i> Toxin		PARASITOLOGY		<i>Chlamydia trachomatis</i> /GC NAAT	
Diphtheria				Blood Parasites: _____	
Foodborne Pathogens		Country visited outside US:		QuantIFERON	
<i>(B. cereus, C. perfringens, S. aureus)</i>		Ova & Parasites		Incubation: Time began: _____ a.m./p.m.	
Gonorrhea Culture:		Immigrant? <input type="checkbox"/> Yes <input type="checkbox"/> No		Time ended: _____ a.m./p.m.	

PCR for culture ID of TB -Update

- AccuProbe DNA probes will be discontinued by the end of 2022.
- Our laboratory is implementing an in-house developed real-time PCR for the ID of *M. tuberculosis* and *M. avium* complex from culture.
- Proof of concept has been completed and validation is in process.
- There should be no real noticeable change for you.

4 Month Regimen

- Baseline molecular DSTs for INH, PZA, RIF, and fluoroquinolones.
- Phenotypic DSTs for RIF, INH, PZA, and MOX.

Phenotypic DST changes

- Our lab plans to implement Sensititre for second line DST.
- Additionally, we will look into validating the most critical second line drugs (including Moxifloxacin) in MGIT.

Molecular DST

- We are currently working with the Division of Molecular Biology to bring sequencing in-house.
- The Core Sequencing Unit is working on the necessary QA measures to be compliant with CLIA regulations.
- We are looking into using GeneXpert to perform the necessary molecular testing.

Questions?

- Rich's office: 443-681-3944
- Main Lab extension: 443-681-3950
- Email: richard.oatis@maryland.gov