## Mycobacteriology Proficiency Testing Program Event 13-2 Results Summary, October 2013

Samples 13-12F, 13-2G, 13-2H and 13-1J contained *Mycobacterium tuberculosis*. Sample 13-2I contained *Mycobacterium abscessus* 

#### I. Microscopy

#### **EXPECTED RESULTS**:

	Acid Fast Bacilli
13-2A	Absent
13-2B	Absent
13-2C	Absent
13-2D	Absent
13-2E	Present

#### **SCORES FOR MICROSCOPY (101 PARTICIPANTS):**

	Comprehensive Labs	Restricted Labs	Smears Only Labs	Total
100%	16	46	29	91
80-89%	2	1	6	9
<80%	0	0	1	1

	13-2A	13-2B	13-2C	13-2D	13-2E
Correct answer	100	97	98	97	101
Incorrect answer	1	4	<mark>3</mark>	4	0

#### STAINING METHOD

Carbol Fuschin: 44 laboratories (43.6%)

Flurochrome: 34 laboratories (33.7%)

Carbol Fuschin + Flurochrome: 23 laboratories (22.7%)

# II. Identification/Drug Susceptibility

**SCORES FOR ID** 

	Comprehensive Labs	Restricted Labs
100%	16	44
90-99%	0	0
80-89%	1	3
< 80%	1	0

#### **SCORES FOR SUSCEPTIBILITY**

	Comprehensive Labs	
100%	16	
90-99%	2	

One laboratory was exempt

#### **OVERALL SCORES (MICROSCOPY, ID AND SUSCEPTIBILITY)**

	Comprehensive Labs	Restricted Labs
100%	13	44
90-99%	4	2
80-89%	1	1
< 80%	0	0

# RESULTS FOR 13-2F (Mycobacterium tuberculosis pan-susceptible)

# Identification

Result*	Method	Restricted	Comprehensive
	GenProbe/Accuprobe	35	5
M. tuberculosis	HPLC		1
complex	PCR Assay	1	
Complex	Conventional		
	Biochemicals		
	GenProbe/Accuprobe	4	6
	Conventional	1	3
M. tuberculosis	Biochemicals	1	3
	PCR Assay		2
	DNA Sequencing		1
Acid Fast Bacilli	Microscopy	6	

#### Susceptibility

Antibiotic	Results	# Labs
EMB1	Susceptible	17
EIVIDI	Resistant	1
INH1	Susceptible	18
D74	Susceptible	17
PZA	Not offered	1
RIF	Susceptible	18
SM1	Susceptible	15
	Not offered	3

# RESULTS FOR 13-2G (Mycobacterium tuberculosis pan-susceptible)

## Identification

Result*	Method	Restricted	Comprehensive
	GenProbe/Accuprobe	35	5
M. tuberculosis	HPLC		1
complex	PCR Assay	1	
Complex	Conventional		
	Biochemicals		
	GenProbe/Accuprobe	4	5
	Conventional		3
M. tuberculosis	Biochemicals		3
	PCR Assay		2
	DNA Sequencing		1
M. africanum	GenProbe/Accuprobe		1
Acid Fast Bacilli	Microscopy	6	

## Susceptibility

Antibiotic	Results	# Labs
EMB1	Susceptible	18
INH1	Susceptible	18
PZA —	Susceptible	17
	Not offered	1
RIF	Susceptible	18
SM1	Susceptible	15
	Not offered	3

## **RESULTS FOR 13-2H (Mycobacterium tuberculosis pan-susceptible)**

## Identification

Result*	Method	Restricted	Comprehensive
	GenProbe/Accuprobe	33	5
	HPLC		1
M. tuberculosis complex	PCR Assay	1	
	Conventional Biochemicals		
M. tuberculosis complex, not M. tuberculosis	GenProbe/Accuprobe	2	6
	GenProbe/Accuprobe	4	6
M. tuberculosis	Conventional Biochemicals	1	3
	PCR Assay		2
	DNA Sequencing		1
Acid Fast Bacilli	Microscopy	6	

## Susceptibility

Antibiotic	Results	# Labs
EMB1	Susceptible	18
INH1	Susceptible	18
D7.4	Susceptible	17
PZA	Not offered	1
RIF	Susceptible	18
SM1	Susceptible	15
21/11	Not offered	3

## **RESULTS FOR 13-2I (Mycobacterium abscessus)**

## Identification

Result*	Method	Restricted	Comprehensive
M. abscessus	DNA Sequencing		3
	MALDI-TOF		1
	Mass Spectrometry		
	HPLC	1	1
	Conventional Biochemicals	4	5
M. bollettii	DNA Sequencing		1
M. abscessus/chelonae group	HPLC		1
	DNA Sequencing	1	3
	Conventional Biochemicals	2	
M. chelonae	HPLC		<mark>1</mark>
M. fortuitum group	Conventional Biochemicals		<mark>1</mark>
Non-tuberculous Mycobacteria	GenProbe/Accuprobe	30	1
	PCR Assay	1	
	Conventional Biochemicals	1	
Acid Fast Bacilli	Microscopy	6	

#### 1 laboratory could not generate growth

## RESULTS FOR 13-2J (Mycobacterium tuberculosis pan-susceptible)

## Identification

Result*	Method	Restricted	Comprehensive
M. tuberculosis complex	GenProbe/Accuprobe	35	5
	HPLC		1
	PCR Assay	1	
	Conventional Biochemicals		
M. tuberculosis	GenProbe/Accuprobe	4	6
	Conventional Biochemicals	1	3
	PCR Assay		2
	DNA Sequencing		1
Acid Fast Bacilli	Microscopy	6	

## Susceptibility

Antibiotic	Results	# Labs
EMB1	Susceptible	18
INH1	Susceptible	18
PZA	Susceptible	17
	Not offered	1
RIF	Susceptible	18
SM1	Susceptible	15
	Not offered	3