RECORDING AND REPORTING RESULTS

Facilitator Guide (FG1)

global laboratory initiative
advancing TB diagnosis

SUMMARY OF MODULE AT A GLANCE

Purpose of module:	To provide participants with an overview of recording and reporting Xpert MTB/RIF (Ultra)* results	
Total time of module	1 hours 45 minutes	
CONTENT OUTLINE		
Power point: TB Diagnostics Global Policies and Strategies	Aim: provide participants with an overview of recording and reporting Xpert MTB/RIF (Ultra) results Learning objectives: ▪ Describe essential elements of recording and reporting Xpert MTB/RIF (Ultra) results ▪ Understand essential requirements for the request form for Xpert MTB/RIF (Ultra) ▪ Record Xpert MTB/RIF (Ultra) results on the Laboratory Request Form ▪ Record Xpert MTB/RIF (Ultra) results correctly in the Laboratory Register	1 hour
Discussion Questions	1. What essential data must be entered in the Laboratory Register? 2. What are differences in reporting Xpert MTB/RIF and Xpert Ultra results? 3. What do the codes RR and TI mean? 4. What is the code for No Result?	15 minutes
Exercise 1: Recording	Aim: Practice reporting results on the correct TB forms and registers using the WHO reporting codes	15 minutes
Handout and exercise/practicals in module	1. Worksheet (W1:M4)- Reporting	
Additional resources or references:	• Definitions and reporting framework for tuberculosis - 2013 revision. Geneva, World Health Organization. 2013. (WHO/HTM/TB/2013.2). http://www.who.int/tb/publications/definitions	

* Refers to either Xpert MTB/RIF and/or Xpert MTB/RIF Ultra

MODULE NOTES

Slides 4-14 Introduce participants to the essential elements of recording and reporting Xpert MTB/RIF (Ultra) results, including using the Laboratory Request Form and Laboratory Register etc. Countries should customize these slides to reflect their recording and reporting tools

Slides 8 & 14 Discuss using the WHO reporting codes for reporting Xpert MTB/RIF and Xpert MTB/RIF (Ultra) results. If the training is for Xpert MTB/RIF test only, then do not use slides 13 & 14 (as they pertain to Ultra only)

Slides 15 & 16 & 18 These slides focus on reporting results and should customize to reflect country's recording and reporting practises; however, it is important to always relate these to 'best practises'. Training on electronic reporting using LIMS and / or an electronic system such as GxAlert is beyond the scope of this training. This training can be customised to address these topics, or specific trainings can be arranged

EXERCISE: REPORTING

Purpose of exercise:	Practice reporting results on the correct TB forms and registers using the WHO reporting codes
Preparation:	▪ Work individually ▪ Worksheet- Reporting (W1:M4) ▪ Handout- Reporting (H1:M4)
Materials required:	Full list of materials participants need: ▪ Pens (Red and black / blue) ▪ Worksheet- Reporting (W1:M4) ▪ Handout- Reporting (H1:M4)
Total time of exercise:	15 minutes
Feedback expected:	Participants review each other's results

CONDUCTING THE EXERCISE

Read out instructions (shown above in "preparation")	1 minutes
Complete the report forms. Write comments on the reporting form as appropriate for the Xpert MTB/RIF test result	5 minutes
Swap forms with someone. Review the form for correctness	10 minutes

DEBRIEFING EXERCISE/PRACTICAL

Having a 2nd person validates the patient details and result from GeneXpert ensures:

1. That the details match the report and register;
2. The correct results are reported

Worksheet (W1:M4)- REPORTING

Instructions: Complete the two report forms based on the scenarios presented.

Scenario 1:
Your testing site received a mucoid sputum sample for Xpert MTB/RIF testing yesterday. The sample was registered as number 1. The GeneXpert instrument reports the "MTB Detected; Rifampicin Resistance Detected". The result is ready for release today.

Microscopy and Xpert MTB/RIF results *(to be completed in the laboratory)*

Specimen reception date: _____/_____/_____

Lab serial number(s)	Specimen type (*)	Visual appearance *(blood-stained, mucopurulent or saliva)*	**Microscopy result** *(tick one)*					**Xpert results** (**)
			Negative *(0 AFB/ 100 HPF)*	**1–9/100 HPF** *(scanty: report the no. of AFB)*	**+** *(10–99 AFB/ 100 HPF)*	**++** *(1–10 AFB/ HPF)*	**+++** *(>10 AFB/ HPF)*	

* Sputum (sp.); Other (please specify). ** Select one of the following:

Examined by (name and signature): _____

Date of result: _____/_____/_____

Scenario 2:
Your testing site received a mucoid sputum sample for Xpert MTB/RIF testing yesterday. The sample was registered as number 2. The GeneXpert instrument reports the "Invalid". The result is ready for release today.

Microscopy and Xpert MTB/RIF results *(to be completed in the laboratory)*

Specimen reception date: _____/_____/_____

Lab serial number(s)	Specimen type (*)	Visual appearance *(blood-stained, mucopurulent or saliva)*	**Microscopy result** *(tick one)*					**Xpert results** (**)
			Negative *(0 AFB/ 100 HPF)*	**1–9/100 HPF** *(scanty: report the no. of AFB)*	**+** *(10–99 AFB/ 100 HPF)*	**++** *(1–10 AFB/ HPF)*	**+++** *(>10 AFB/ HPF)*	

* Sputum (sp.); Other (please specify). ** Select one of the following:

Examined by (name and signature): _____

Date of result: _____/_____/_____

Handout (H1:M4)- REPORTING

Scenerio 1

Microscopy and Xpert MTB/RIF results *(to be completed in the laboratory)*

Specimen reception date: 02 / 10 / 2017

Lab serial number(s)	Specimen type (*)	Visual appearance *(blood-stained, mucopurulent or saliva)*	Microscopy result *(tick one)*					Xpert results (**)
			Negative *(0 AFB/ 100 HPF)*	**1–9/100 HPF** *(scanty: report the no. of AFB)*	**+** *(10–99 AFB/ 100 HPF)*	**++** *(1–10 AFB/ HPF)*	**+++** *(>10 AFB/ HPF)*	
1	Sputum	Mucoid						R
								R

Remember to use correct color pen

* Sputum (sp.); Other (please specify). ** Select one of the following:
(T): MTB detected, RIF resistance not detected
(RR): MTB detected, RIF resistance detected
(TI): MTB detected, RIF resistance indeterminate
(N): MTB not detected
(I): Invalid / No result / Error

Examined by (name and signature): _____

Date of result: 03 / 10 / 2017

Remember to sign your name

Lab tech signature

Scenerio 2

Microscopy and Xpert MTB/RIF results *(to be completed in the laboratory)*

Specimen reception date: 02 / 10 / 2017

Lab serial number(s)	Specimen type (*)	Visual appearance *(blood-stained, mucopurulent or saliva)*	Microscopy result *(tick one)*					Xpert results (**)
			Negativ	**–9/100 HPF** *ty: report no. of FB)*	**+** *(10–99 AFB/ 100 HPF)*	**++** *(1–10 AFB/ HPF)*	**+++** *(>10 AFB/ HPF)*	
2	Sputum	Mucoid						I

Remember to sign your name

* Sputum (sp.); Other (please specify). one of the following:
(MTB detected, RIF resistance not detected
(MTB detected, RIF resistance detected
(MTB detected, RIF resistance indeterminate
(N) TB not detected
(I): valid / No result / Error

Examined by (name and signature): _____ Lab tech signature

Date of result: 03 / 10 / 2017

Please submit a second sample for testing

MODULE ANSWERS

1. **What essential data must be entered into the Laboratory Register?**
    a. Date specimen collected and received
    b. Laboratory Serial Number
    c. Type of specimen (sputum salivary, bloody)
    d. Patient's information (i.e., name, sex, age, address and register number)
    e. Reason for examination (e.g., diagnosis or follow-up)
    f. Client category (e.g., Retreatment, MDR, PLHIV, New etc.)

2. **What are differences in reporting Xpert MTB/RIF and Xpert MTB/RIF Ultra results?**

    There is an additional result category for Xpert MTB/RIF Ultra trace that differentiates it from the Xpert MTB/RIF TI category For Xpert MTB/RIF (Ultra), the following abbreviation should be used for trace calls: TT = MTB detected (trace), RIF resistance indeterminate

3. **What do the codes RR and TI mean?**
    a. RR = MTB detected / rifampicin resistant
    b. TI = MTB Detected very low Rifampicin Resistance Indeterminate

4. **What is the code for No Result?**
    a. I