Section 1: Overview

Introduction

This section provides an overview of an HIV Rapid Testing workshop. It contains information about:

- Workshop Goal
- Training Modules: Learning Objectives and Content Outline
- Learning Methods / Activities
- Recommended Certification Criteria

Workshop Goal

Participants will gain the knowledge and skills to perform HIV rapid tests accurately and reliably in a safe and professional manner in an era of expanding programs

Training Modules:	Learning Objectives and Content Outline
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	Module	Learning Objectives	Content Outline
1	Overview of HIV Infection Duration: 30 min	 Describe the difference between HIV infection and AIDS Discuss the HIV epidemics globally, regionally, and locally in terms of number of people affected Define the terms antibody and antigen Explain how "window period" may affect HIV testing results Describe the progression of HIV infection 	 What is HIV? What is AIDS? The HIV pandemic HIV transmission Window period Stages of HIV infection
2	Integration of HIV Rapid Testing in HIV Prevention and Treatment Programs	 Recognize the need for HIV testing and counseling (T&C) in HIV prevention programs Describe the role of HIV rapid testing in supporting prevention and counseling programs State the advantages of using HIV rapid tests in specific settings (e.g., VCT and PMTCT programs) Describe the programs/settings where HIV rapid tests are used in your country 	 Need for expanding access to HIV testing Testing and counseling as an integral part of HIV prevention, care and support services Client counseling and HIV rapid testing are a formidable combination in any HIV prevention strategy

	Module	Learning Objectives	Content Outline
3	Overview of HIV Testing Technologies Duration: 1 hour 5 min	 Discuss settings where HIV testing will be part of service delivery during an era of expanded services Discuss the spectrum of testing technologies for HIV Explain the advantages and disadvantages of HIV rapid tests Accurately recognize individual test result as reactive, non-reactive, or invalid 	 Expansion of HIV rapid testing Spectrum of HIV diagnostic tests Challenges with HIV testing Spectrum of HIV testing technologies Advantages and disadvantages of HIV rapid testing Three formats of rapid tests Reading individual test results
4	HIV Testing Strategies and Algorithms	 Discuss the process for developing a national testing algorithm Explain how sensitivity, specificity, positive/negative predictive value relate to development of an HIV rapid testing algorithm Explain the HIV rapid testing algorithm approved in your country Determine HIV status following a particular algorithm 	 Testing strategies and algorithms Developing national testing algorithm Measuring performance of HIV rapid tests Interpreting HIV status
5	Assuring the Quality of HIV Rapid Testing Duration: 1 hour 15 min	 Explain the systems approach to lab quality and its benefits Identify the essential elements of a lab quality system and how they apply to HIV rapid testing Recognize key factors that may compromise the quality of HIV rapid testing Describe your responsibilities in preventing and detecting errors before, during, and after testing 	 The approach we take to achieve quality Essential elements of a lab quality system Quality assurance procedures at the HIV rapid testing site How you can contribute to quality before, during, and after testing

	Module	Learning Objectives	Content Outline
6	Safety at the HIV Rapid Testing Site Duration: 45 min	 Adhere to personal health and safety practices Maintain a clean and organized workspace Disinfect and dispose of infectious materials Take appropriate actions following accidental exposure to potentially infectious specimen Follow written safety procedures and keep proper safety records 	 General safety practices Work habits (personal, work space, material) Proper disposal of sharps and waste Disinfection of work areas Safety documentation
7	Preparation for Testing – Supplies and Kits Duration: 50 min	 List and identify all the supplies required for HIV rapid testing List and identify all the components of test kits for HIV rapid testing 	 Supplies & materials Test kits
8	Blood Collection: Finger prick Duration: 2-2.5 hrs	 Explain the preparation tasks required for rapid tests Put a client at ease while collecting blood Collect blood from a finger prick accurately and confidently 	 Preparation for testing Educating your client Performing finger prick
9	Performing HIV Rapid Tests: Demonstration and Practice Duration: 5.5 hrs	 Perform 3 HIV rapid tests according to SOP Perform multiple tests simultaneously Accurately interpret individual test results Accurately determine HIV status 	 Overview of testing procedures Workstation setup Demonstration Practice session with known specimens Practice session with blinded specimens
10	Inventory: Managing Stocks at the HIV Rapid Testing Site Duration: 1 hour	 Maintain proper records Maintain proper level of consumables Use first-expiry-first-out concept when managing stocks Inspect delivery of supplies before acceptance Identify lot numbers and expiry dates Keep kits and supplies in proper storage 	 What is stock management? Record keeping Re-order levels Receipt of consumables Storage of consumables

	Module	Learning Objectives	Content Outline
11	Use and Care of Equipment at the HIV Rapid Testing Site Duration: 55 min	 Specify your responsibilities related to equipment Routinely monitor the temperatures of refrigerators and freezers Confirm that auto pipettes deliver specified volumes Properly use and maintain centrifuges 	 Rationale for using properly maintained equipment Your responsibilities for equipment Use and care of equipment at the HIV rapid testing site Refrigerator and freezer Pipette Centrifuge
12	Quality Control Duration: 45 min	 Differentiate between internal and external controls Use external quality controls at designated frequencies Analyze common problems associated with invalid test results 	 What is Quality Control (QC)? Benefits of QC in rapid testing Internal versus external quality control Troubleshooting invalid results Quality control records
13	EQA: On-site Evaluation and Re- testing Duration: 1 hour 30 min	 Assess operations at test site to determine if quality requirements are met Take corrective actions following External Quality Assessment (EQA) Keep appropriate records related to EQA Avoid common problems associated with EQA specimen management 	 What is EQA and why is it important? EQA Responsibilities EQA Methods Proficiency Testing On-Site Evaluation Re-testing How to implement EQA
14	Blood Collection and Handling: DBS Duration: 1.5 hours	 Collect dried blood spots (DBS) Package and store DBS in a way to maintain specimen integrity Maintain DBS records Distinguish between valid and invalid DBS 	 Required supplies How to collect and dry DBS How to package and store DBS Valid and invalid DBS Hands-on practice

	Module	Learning Objectives	Content Outline
15	Documents and Records	 Tell the difference between a document and a record Explain the rationale for maintaining documents and records Provide examples of documents and records kept at a test site Follow the procedures as prescribed in SOPs Describe how to properly keep and maintain test site documents and records Describe the types of information typically <u>not</u> found in a manufacturer's product insert 	 What are documents and records? <u>Documents</u> Why are they important? What documents should you keep? Why is it important to follow SOPs? What is the proper way to keep and maintain documents? <u>Records</u> Why are they important? What records should you keep? What is the proper way to keep and maintain records?
16	Professional Ethics Duration: 45 minutes	 Describe ethical issues related to HIV rapid testing Explain the importance of professional ethics Apply ethical conduct to HIV rapid testing Take appropriate actions to maintain client confidentiality 	 What is ethics? Why is ethics important? Who is responsible for ethics? How is ethics applied to HIV rapid testing? Maintaining confidentiality Code of conduct

Learning Methods / Activities:

The HIV Rapid Testing workshop includes the following types of activities to aid in accomplishing workshop goals and objectives:

- Presentations will allow participants gain knowledge through didactic exchange of information.
- **Group discussions** will allow participants to share experiences and ideas.
- **Role plays** will allow participants to learn through simulated situations.
- Video presentations will introduce participants to the procedural steps for collecting blood specimens, performing tests, and interpretation of results.
- Demonstrations will allow participants to observe a particular procedure or test prior to individual performance.
- "Hands-on" practice exercises will allow participants to experience collecting specimens, and performing, and interpreting a variety of HIV rapid tests.
- Energizer / Games will reinforce teaching points in fun and lively environment

For further details on these activities, and detailed suggestions for facilitating each of the modules of instruction, refer to Section 4 of this guide: *Presentation Slides and Trainer Notes.*

Competency Certification Criteria:

The following criteria are recommended for certification of individuals who perform HIV rapid testing. The criteria are based upon recommendations outlined in *"Guidelines for Assuring Accuracy and Reliability of HIV Rapid Testing: Applying a Quality System Approach."* Please note: Certification criteria must reflect national policy.

A certificate of competency is awarded to participants upon meeting the requirements outlined below:

- 1) Successfully completing the HIV Rapid Testing training workshop by:
 - Daily attendance
 - Passing score of 80% on written post-workshop examination
 - Passing score of 100 % on final practical examination
- 2) 100% accuracy of first 50 specimens tested under direct supervision