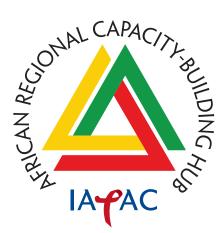
TRAIN-THE-TRAINER MANUAL HIV CLINICAL MANAGEMENT



Supported through a restricted educational grant from Gilead Sciences.

DISCLAIMER

Gilead Sciences played no role in the development of this manual. Additionally, the views expressed in this manual do not reflect those of the World Health Organization (WHO), whose normative guidance is cited at various points throughout the manual, unless otherwise explicitly stated through a citation.

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PREFACE

The International Association of Providers of AIDS Care (IAPAC) established its African Regional Capacity-Building Hub with a mission to strengthen clinician capacity around HBV, HCV, and HIV clinical management. The Hub's work is advanced in collaboration with national, regional, and international stakeholders, and through a restricted educational grant from Gilead Sciences.

The Hub is aligned to assist with ongoing efforts to expand access to HBV, HCV, and HIV screening, testing, prevention, care, and treatment on the African continent. The Hub's 2015-2020 goals include:

- Supporting countries to integrate World Health Organization (WHO) and other relevant normative guidance, including national guidelines, in relation to their HBV, HCV, and HIV responses;
- Increasing clinician capacity to implement HBV, HCV, and HIV normative guidance, along their respective continua, in specialized and primary care settings based on needs specifically determined at clinical sites; and
- Promoting continuing education and metrics-based certification as mechanisms to trigger continuing quality improvement, provide quality assurance, and address health workforce retention concerns.

IAPAC is the Hub's Secretariat, and its association and academic partners are the International Association for the Study of the Liver (IASL), the Makerere University College of Health Sciences (Kampala, Uganda), and the University of Cape Town's Division of Hepatology (South Africa).











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ACRONYMS

ABC	abacavir
AIDS	acquired immunodeficiency
	syndrome
ART	antiretroviral therapy
ARV	antiretroviral
ATV/r	ritonavir-boosted atazanavir
AZT	azidothymidine
DAART	directly administered
	antiretroviral therapy
d4T	stavudine
DRV/r	ritonavir-boosted darunavir
EFV	efavirenz
FTC	emtricitabine
HAV	hepatitis A virus
HBV	hepatitis B virus
HCV	hepatitis C virus
HIV	human immunodeficiency
	virus
HPV	human papillomavirus
HTC	HIV testing and counseling
IAPAC	International Association of
	Providers of AIDS Care
IPT	isoniazid preventive therapy

LPV/r	ritonavir-boosted lopinavir
MSM	men who have sex with men
NRTI	nucleoside reverse transcriptase
	inhibitor
NVP	nevirapine
PEP	post-exposure prophylaxis
/PI	protease inhibitor
PLHIV	people living with HIV
PMTCT	prevention of mother-to-child
	transmission
PrEP	pre-exposure prophylaxis
RAL	raltegravir
SMS	short message service
SQV/r	ritonavir-boosted saquinavir
START	Strategic Timing of AntiRetroviral
	Treatment
STI	sexually transmitted infection
TasP	treatment as prevention
TB	tuberculosis
TDF	tenofovir
VMMC	voluntary medical male circumcision
WHO	World Health Organization
3TC	lamivudine

INTRODUCTION

Purpose

The purpose of this manual is to provide trainers with guidance and tips for leading a training using the IAPAC African Regional Capacity-Building Hub's *HIV Clinical Management* curriculum.

Training Package

The *HIV Clinical Management* training package consists of:

- Train-the-Trainer Manual
- Presentation slides for each module
- Participant handouts (e.g., guidelines, case studies)

Target Audience

The target audiences for trainings using this manual and the *HIV Clinical Management* curriculum are physicians and nurses, as well as health educators from a variety of settings, including:

- Healthcare facilities and clinics
- Medical and nursing schools
- Community-based organizations
- Other facilities serving people living with or at risk for HIV

ADULT LEARNING

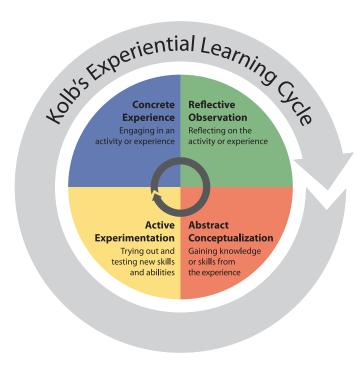
LEARNING CYCLE

Kolb's experiential learning cycle has four phases: **concrete experience** which leads the learner to make **observations and reflections** based on their experiences. These observations and reflections then inform the **conceptualizations and generalizations** made by the learner on the subject matter. The conceptualizations and generalizations are then tested by learners using **actual experimentation**. New insights from experimentation form the basis of new concrete experience, thus making a full cycle.

In general teaching and learning aims at effective change in three domains:

- 1. Cognitive (knowledge) "Head"
- 2. Psychomotor (skills) "Hand"
- 3. Affective (attitudes) "Heart"

FIGURE 1. Kolb's Experiential Learning Cycle



© 2014 SkillsYouNeed.com Kolb D.A. (1984) "Experiential Learning experience as a source of learning and development," New Jersey: Prentice Hall.

KNOWLEDGE RETENTION

In general, humans remember:

- 20% of what they hear,
- 40% of what they see, and
- 80% of what they discover by themselves.

Research shows that in general adults to do not concentrate beyond 40 minutes hence the need to have a variety of experiential learning designs.

NOTES FOR TRAINERS

Keep all of this in mind as you prepare your training: adult participants need to hear, reflect, interact, and practice new knowledge and skills; long lectures are not the most helpful methods for teaching adults.

Good training helps participants discover what they already know, and validates their own experiences and knowledge, as well as provides new information. Finding ways to train participants through a combination of lectures, plenary discussions, small group work, and individual reflection maximizes learning potential for participants.

KEY STEPS IN TRAINING DESIGN

- 1) Context Analysis. An analysis of the organizational needs or other reasons the training is desired. Consider:
 - a. What are the needs of the participants that the training will address?
 - b. Why is the training program seen as the recommended solution to an information gap?
 - c. What is the history of the institution with regard to staff in-service training?
 - d. Who will decide when the training should happen?

- 2) User Analysis. This analysis seeks to determine:
 - a. For whom is the training relevant?
 - b. What is the participants' level of existing knowledge on the core content?
 - c. How much time are the participants (or their employers) able to make available for the training?
 - d. What kind of expertise or competencies should the trainers possess?
- **3) Content Analysis.** Analysis of material relevant to the training. We seek to answer:
 - a. What knowledge or information is currently used on the job?
 - b. What new knowledge, skills, or values are required to fill the information gap?
 - c. What is the general learning style of the participants?
 - d. What learning approaches and methodologies are suitable for the content and learning style of participants?
- **4) Training Suitability Analysis.** Training is one of several solutions to service delivery gaps. Therefore we seek to answer:
 - a. How will the training link to broader strategies for change?
 - b. With whom should we share the draft curriculum for critical feedback?
 - c. How will effective training result in a return of value to the organization that is greater than the initial investment to produce or administer the training?
 - d. What materials and resource do we need to mobilize given budget provisions and limitations?
- 5) Setting Objectives. Although some trainers use teaching objectives that focus on what the trainer plans to do, it is recommended to use learning objectives in order to focus on the learner outcome.

An example of a teaching objective may be: "To update, reinforce, and provide new information regarding the clinical management of HIV/AIDS." To modify this into a **learning objective**, start with the phrase: "At the conclusion of this activity, participants should be able to..." and then state the measurable activities the participants will be able to do, for example "describe the use of antiretroviral therapy to reduce AIDS-related morbidity and mortality." Use specific action verbs (behavioral terms) to state cognitive outcomes:

KNOWLEDGE	COMPREHENSION	APPLICATION
Define	Explain	Apply
List	Express	Employ
Recognize	Describe	Demonstrate
Record	Discuss	Illustrate
Repeat	Identify	Interpret
State	Restate	Perform
	Translate	Practice
		Use

6) Monitoring and Evaluation. We seek to answer:

- a. How will the training's efficacy be evaluated during and after the training?
- b. How will we monitor and evaluate the manner the trainees have adopted or applied their learning?

NOTES FOR TRAINERS

A few hours of thinking through all of the above listed questions will improve your ability to plan a training session that provides real benefit to individual participants, the group as a whole, and the community. Do not skip this important step!

WORKING DEFINITIONS

Training design: A complete and thorough description and "fleshing out" of the training that contains rationale, objectives, content/core topics, training methods, time, evaluation tools, facilitating roles and responsibilities, and materials and other resources needed.

Training: An educational process involving the creation and acquisition of knowledge, skills, and attitudes.

Curriculum: A general description of the training or course that contains the:

- a. aim(s)/goal(s)/purpose
- b. specific objectives
- c. course content
- d. training methods/pedagogy
- e. timeframe for the training
- f. criteria for training evaluation

Syllabus: Contents of a course or training arranged according to a flow.

Module: A series of related activities responding to a particular set of objectives that can be undertaken independently; this may be one component of a curriculum.

NOTES FOR TRAINERS

A few final thoughts:

- It is important to always keep in mind your final goal: What is it you want the participants to have gained by the end of the training? What change in knowledge/attitudes/behavior do you want them to exhibit?
- Knowing how much to include in a training is a matter of experience. It is often useful to know the key items that you want to present, and make sure that there is time to address those items. Additionally, it is useful to have other topics for discussion or presentation prepared that may or may not be used depending on how quickly or slowly the group moves.
- Be ready to spend more time than you planned on key topics if it is clear the group needs more time to work through ideas or needs more time to practice; it is better to do a few things well than to speed through the entire curriculum and "lose" the group. If most of the group seems to understand and is ready to move on, but a few participants still seem confused or unsure, meet with them over breaks or after the training to spend more time with them to ensure that everyone understands the key concepts and skills.
- Be flexible to modify the training based on the group's interest and learning priorities while keeping the end goal in sight. When the training diverges from the planned approach, assess whether the diversion is helpful in reaching the overall objective of the training. If it is just an interesting conversation but does not contribute to reaching the overall objective, suggest that it be moved to a lunch discussion.

TRAINING LOGISTICS

PLANNING AHEAD

Administrative Support: The course will need to be organized (advertise, receive registrations, find and book venue, etc.) and course materials will need to be prepared. This may take up to 10 days.

Facilitator versus Co-Facilitators: One facilitator is recommended per 60 in-service training participants for a one-day course. However, if the training agenda is split over two days held consecutively, it is recommended that two facilitators conduct the course of the curriculum.

Training Venue:

- □ You will require a room to hold up to 60 participants, with participants sitting in groups (preferably in groups of 5) around tables.
- □ You will require audiovisual equipment for use of PowerPoint presentation.
- □ You may print the slides onto overhead transparencies if you do not have PowerPoint projector capabilities.
- □ Organize payment for venues (if required).
- □ Familiarize yourself with the venue facilities (air-conditioning/heating, lighting, PowerPoint projector, tea and coffee facilities, toilets, parking, etc.).

Geo-Mapping Trainings and Trainees: We seek to geomap the geographic reach of Hub trainings. We ask trainers to provide detailed updates after each training session regarding numbers of individuals trained accompanied by relevant non-identifying demographic information, including trainees' academic credentials, practice settings, geographic locations (city/province), overall patient caseloads, and HIV-specific caseloads. The date and location of the training session and the demographic information should be emailed to AfricanHub@iapac.org with the subject line "HIV Trainees." **Costing:** Determine whether you need to pay for venue hire, audiovisual equipment hire, catering, and printing. In some instances, such costs may be recouped by charging trainees an administrative fee.

Publicity: A draft promotional flyer has been supplied for you to modify. Sample text for email announcements will also be provided.

Registration: You will need email or postal addresses of all participants in order to send pre-reading materials. Additionally, you may collect relevant participant information such as job title, contact details, prior experience, and food preferences.

Invoicing: If participants are required to pay an administrative fee for the course, they will require an invoice to process payment.

Catering: It is recommended that morning coffee/tea, lunch, and afternoon coffee/tea are provided, in addition to water. You should check food preferences prior to placing a catering order.

ONCE REGISTRATIONS HAVE BEEN RECEIVED

Confirmations:

- Email participants to confirm their registration has been received and that they will receive pre-reading material at least 1 week (preferably 2 weeks) prior to the course.
- □ Organize name tags.
- □ Send all participants the pre-reading material at least 1 week (preferably 2 weeks) prior to the course.
- □ Order a sufficient supply of training manuals. This can be done by emailing IAPACHub@iapac.org with the email heading "HIV Hub Supplies Request."

Printing Course Materials: This manual includes a series of handouts, including the training agenda, case studies, and self-assessment questions.

- □ Each document should be printed and collated by placing a colored piece of paper/divider at the end of each document to distinguish between documents.
- □ Do not forget to print out the evaluation form and course certificates (provided), too.

ON THE TRAINING DAY

You will require:

- \Box All module slides
- \Box Name tags
- □ Training agenda
- □ Training manuals
- □ Handouts (e.g., guidelines)
- $\hfill\square$ Evaluation forms
- $\hfill\square$ Certificates of completion

TRAINING AGENDA

IAPAC AFRICAN REGIONAL CAPACITY-BUILDING HUB: HIV IN-SERVICE TRAINING

NOTE: Trainers may make adjustments to the training agenda, however it is recommended that all elements of the curriculum are covered by the conclusion of the in-service training.

DATE:

FACILITY, CITY, COUNTRY:

8:00 am-	Registration/Check-In/Breakfast	1:30 рм–	Module 4: Implementing Earlier ART
9:00 am		2:00 рм	Initiation and Selecting 1st Line ART
9:00 ам–	Welcome, Introductions,	2:00 рм—	Module 5: Defining HIV Treatment
9:15 ам	and Program Overview	2:15 рм	Failure and Selecting 2nd Line ART
9:15 ам–	Module 1: Defining, Measuring, and	2:15 рм—	Module 6: Special Considerations for
9:45 ам	Monitoring the HIV Care Continuum	2:45 рм	Engaging Key Populations in HIV Care
9:45 ам–	Module 2: Optimizing the HIV Care	2:45 рм—	Module 7: Achieving Long-Term Reten-
10:15 ам	Environment	3:15 рм	tion and Engagement in HIV Care
10:15 ам–	Module 3: HIV Testing and Linkage to	3:15 рм—	Question and Answer Session
10:45 ам	Preventative and Therapeutic Care	3:30 рм	
10:45 ам– 11:00 ам	Question and Answer Session	3:30 рм– 4:00 рм	Break
11:00 ам– 11:30 ам	Break	4:00 рм– 5:00 рм	Learning Activity: Case Study Review
11:30 ам– 12:30 рм	Learning Activity: Case Study Application	5:00 рм— 5:30 рм	Summary and Evaluation
12:30 рм– 1:30 рм	Lunch	5:30 рм	Adjourn

TRAINER INTRODUCTION

Time Required: Approximately 15 minutes

INSTRUCTIONS TO FACILITATOR

- 1) Distribute course materials and name tags to participants.
- **2)** Trainer introduction: Introduce yourself (and other facilitators if appropriate) and detail your background and experience. Alternatively, you may participate in the group introduction and icebreaker.
- 3) Participant introductions and icebreakers: There are many choices when it comes to icebreakers. You may have your own preferences.
- 4) Participants' expectations: Ask the group to openly provide feedback on the four 'G's':
 - Gives (what participants can give to the course)
 - Gains (what they hope to gain from the course)
 - Ghastlies (what they hope does not happen in the course (e.g., too simple, too advanced, not relevant, etc.)
 - Ground rules (what rules can the group agree upon (e.g., one person talks at a time, no single person to dominate discussion, etc.)

You should write these down on large paper or on a whiteboard (or transparency) so you can regularly refer to them during the course and assess if the course is meeting participants' needs.

- 5) Discuss course objectives and outline of the one-day training agenda.
- 6) Address housekeeping issues toilets, breaks, coffee/tea/water, or any other issues.

MODULE 1

DEFINING, MEASURING, AND MONITORING THE HIV CARE CONTINUUM

TRAINER GUIDE

Time Required: Approximately 30 minutes

Learning Objectives:

- 1. Understand the use of ART for HIV treatment and prevention
- 2. Identify steps in the HIV care continuum
- 3. Define how the continuum should be measured and reported
- 4. Describe the relevance of UNAIDS' 90-90-90 targets for 2020

Description of Supporting Materials: PowerPoint Slides Train-the-Trainer Manual



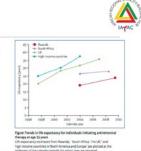
Learning Objectives

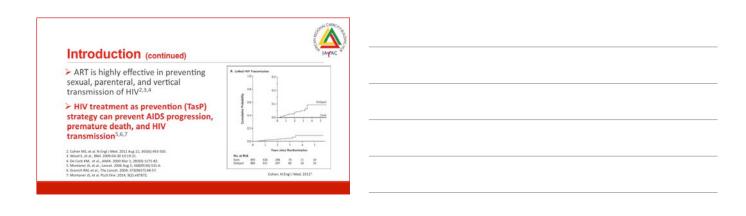
- 1. Understand the use of ART for HIV treatment and prevention
- 2. Identify the steps in the HIV care continuum
- 3. Define how the continuum should be measured and reported
- 4. Describe the relevance of UNAIDS' 90-90-90 targets for 2020

Introduction

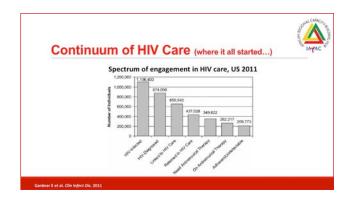
Modern antiretroviral therapy (ART) has changed the course of HIV disease

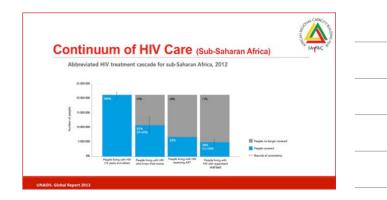
Life expectancy can be nearnormal with a highly preserved quality of life.¹ Life expectancy in some southern African countries is increasing²

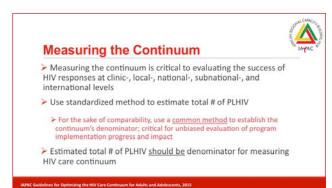












Continuum Data Elements



Δ

Collect a minimum of 5 data elements:

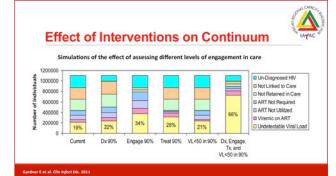
- 1. Estimated # of PLHIV in a jurisdiction
- 2. # and % of PLHIV who are diagnosed HIV positive
- 3. # and % of PLIHV who are diagnosed and linked to care (optional)
- 4. # and % of PLHIV who are on ART
- 5. # and % of PLHIV on ART who are virally suppressed

Focusing on these 5 data elements helps with measuring program improvement/success; other program metrics may also be used

Continuum Optimization

The methodology of determining the care continuum should be described within all reports on continuum optimization

- Comprehensive and transparent reporting of the measurement methodology is imperative for internal decision-making and external comparison
 Incomplete reporting may result in suboptimal program assessment and suboptimal resource allocation decisions
- Where possible, consider longitudinal cohort measurement of HIV service utilization and treatment outcomes
 - Helps to identify means to maximize viral suppression through early ART access and minimizing ART discontinuation



UNAIDS 90-90-90 Targets



- ~55%, or 15 million PLHIV, who are in need of ART are currently on ART
 ~25% of PLHIV on ART have achieved long-term viral suppression
- UNAIDS has set 90-90-90 targets to achieve by 2020:
 90% of PLHIV should know their status (testing target)
 - 90% of PLHIV who know their status should be receiving ART (treatment target)
 - > 90% of PLHIV on ART should have achieved viral suppression (optimization target)
- Modeling suggests that achieving these targets will decrease AIDS incidence, AIDS related deaths, and new HIV infections by 90% from 2010 levels by 2030

INAIDS, 90-90-90, 2014



Recognize that ART prevents illness, death, and transmission

Practical Considerations

Measuring the HIV care continuum using a standardized methodology is critical to assessing the quality of care at clinic-, local-, national-, subnational-, and regional levels

Work is needed to optimize the HIV care continuum to increase testing and treatment coverage, as well as retention in care, and improve the proportion of the population successfully treated

Global solidarity to attain the 90-90-90 targets extends to every clinic, hospital, health district, and Ministry of Health

MODULE 2 OPTIMIZING THE HIV CARE ENVIRONMENT

TRAINER GUIDE

Time Required: Approximately 30 minutes

Learning Objectives:

- 1. Understand how legal circumstances negatively influence the HIV care environment
- 2. Describe the use of stigma measures to improve engagement in HIV care
- 3. Summarize how task-shifting/-sharing and decentralized care may improve the HIV care environment

Description of Supporting Materials: PowerPoint Slides

Train-the-Trainer Manual Case Study (refer to Learning Activities section)

Learning Objectives

- 1. Understand how legal circumstances negatively influence the HIV care environment
- 2. Describe the use of stigma measures to improve engagement in HIV care
- Summarize how task-shifting/-sharing and decentralized care may improve the HIV care environment

Introduction

Optimizing the HIV care environment may be the most important action to ensure that there are meaningful increases in the number of PLHIV achieving viral suppression

- > Legal, social, environmental, and structural barriers limit access to the full range of services
- Repeal HIV-related restrictions on entry, stay, and residence in any country Requires multi-stakeholder engagement, diversified and inclusive strategies,
- A well as innovative approaches
 Critically important to address HIV-specific laws that criminalize the conduct of key affected populations and reduce HIV-related stigma and discrimination

Optimizing the Care Environment

> Eliminate stigma and discrimination based on race, ethnicity, gender, age, sexual orientation, and behavior in all settings, but particularly in healthcare settings, using standardized measures and evidence-based interventions

Take proactive steps to identify and manage clinical mental health disorders, and/or mental health issues related to HIV diagnosis, disclosure of HIV status, and/or HIV treatment

Task-Shifting/-Sharing

elines for Optimizing the HIV Care Continuum for Adults and Adolescents. 2015



Shifting and sharing HIV testing, dispensing of ART, and other appropriate tasks among professional and paraprofessional health worker cadres is recommended

 \succ Use of lay health workers to provide pre-test education and testing and to enhance PLHIV engagement in HIV care

Task-shifting/-sharing from physicians to appropriately trained healthcare providers, including nurses and associate clinicians, for ART initiation and maintenance

ara Fairait, Max O Bachmenvi, Carl Lembard, Veresaa Timmennan, Kony Lebe hristopher J Colvin, Sonon Lewin, Gill Faris, Buth Carnisk, Beverly Droper, Musi	Marrick Zwarenstain, Andrew Bool	le, Daniella Gr	rorgeni,				01000		
nnssigner J. Cover, Senon Lewer, Gell Fans, Buth Cannok, Bevery Draper, Mixe anald Chipman, Eric Bateman	e carnetennen, cannelli Rollat, Calette in	in Youries, Die	ware solder						
ixpansion of primary care nurses' roles o include ART initiation and rescription can be done safely can improve health outcomes and quality of care		Control Color-1 Control Color-1 Control Color-1 Internet faire C	00	and an and a second	******		4444.007		
but might not reduce time to ART initiation or AIDS-related mortality	Hyperbase at stak Control COL-2023 (5):0 (507) Control COL-2023 (5):0 (507) Differential (5):0-203 (5):0 (15):1 (10):0-203 (5):0 (15):1 (10):0-203 (5):0 (15):1	3 835 2544 1589 803	6 2963 2943 5349 509	9 2160 3238 3233 8133 8133	10 700 3130 3130 3130 3130 3140	11 598 1585 208	10 201 205 205		

Community and Patient Engagement

Engage community across continuum of care

 Models of community-based support and ART delivery to can complement public sector ART programs by enhancing psychosocial support, improving ART access and outcomes

Enabling PLHIV to take responsibility for their care (chronic disease management) can result in improved health outcomes, increased health services utilization

Self-management (e.g., monitoring, decision-making)
 User-driven care (e.g., electronic intervention)



MODULE 3

HIV TESTING AND LINKAGE TO PREVENTATIVE AND THERAPEUTIC CARE

TRAINER GUIDE

Time Required: Approximately 30 minutes

Learning Objectives:

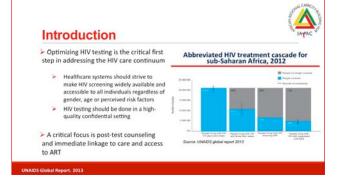
- 1. Summarize strategies for increasing access to HIV testing
- 2. List barriers to successful linkage to care
- 3. Distinguish differences in linkage to care and interventions for people who test HIV positive and HIV negative
- 4. Evaluate the merits of community- vs. home-based HIV testing

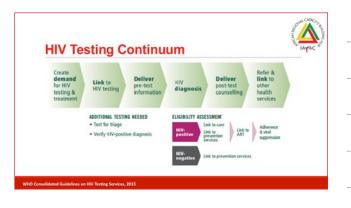
Description of Supporting Materials: PowerPoint Slides

Train-the-Trainer Manual Case Study (refer to Learning Activities section)

Learning Objectives

- 1. Summarize strategies for increasing access to HIV testing
- 2. List barriers to successful linkage to care
- 3. Distinguish differences in linkage to care and interventions for
- people who test HIV positive and HIV negative 4. Evaluate the merits of community- vs. home-based HIV testing
- 4. Evaluate the merits of community- vs. nome-based Hiv testing





Increasing HIV Testing Coverage



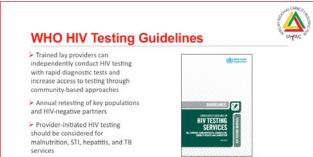
> To increase HIV testing coverage, the following is recommended:

- o Routine offer of opt-out HIV testing
- Community-based HIV testing
- Confidential, voluntary HIV testing in workplace/institutional settings
- HIV self-testing with the provision of guidance about proper method for administering test and direction on what to do once results obtained
- Offer HIV testing to partners of newly diagnosed individuals

elines for Optimizing the HIV Care Continuum for Adults and Adolescents, 2015

 Use of epidemiological data and network analyses to identify individuals at risk of HIV infection for HIV testing

African Regional Capacity-Building Hub | IAPAC



WHO HIV Testing Guidelines (continued)

A-AC

Who to Test	When to Test
Pregnant women and partners	First antenatal care visit Retesting during third trimester or peripartum Offer couples and partner testing
Infants and children <18 months old	 4-6 weeks for all infants exposed to HIV or whose mothers have an uncertain status Final status after 18 months and/or when breastfeeding ends
Adolescents	Integrate into all healthcare encounters Annually if sexually active; with new sexual partners



 \succeq Typically, linkage may consist of verbal or written referral to a care facility by a counselor or the individual who provided the HIV test result

Linkage to care should enable a patient to engage in care early, benefit from a broad package of care, and facilitate immediate access to ART

> Prompt engagement in care optimizes individual and public health outcomes

Key barriers to linkage to care include economic, geographic, transportation and distance barriers, as well as stigma and discrimination

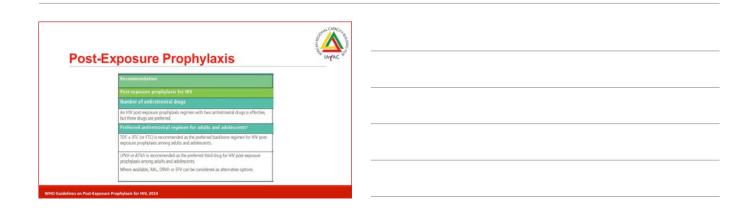
delines for Optimizing the HIV Care Continuum for Adults and Adolescents, 2015

Recommendations

- Immediate referral to HIV care improves linkage to ART
- For high-risk individuals who test HIV negative:
- Offer PEP or PrEP
 Provide free condoms
- Educate about risk-reduction strategies
- Offer voluntary medical male circumcision (as appropriate)

nts, 2015

> Use case managers/patient navigators



Recommendation	2: Oral pre-exposure prophylaxis	to measure that a could	teta a
Target population	Specific recommendation	Strength of the recommendation	Quality of the evidence
HIV-negative individuals at substantial risk of HIV infection [®]	Oral PrEP (containing TDF) should be offered as an additional prevention choice for people at substantial risk of HIV infection as part of combination prevention approaches	Strong	High



MODULE 4

IMPLEMENTING EARLIER ART INITATION AND SELECTION OF 1st Line Art

TRAINER GUIDE

Time Required: Approximately 30 minutes

Learning Objectives:

- 1. Appraise the scientific support for immediate ART initiation (test and treat)
- 2. Describe how HIV viral load testing should be optimally used for ART monitoring
- 3. Define how community-based ART distribution strengthens the HIV care continuum

Description of Supporting Materials:

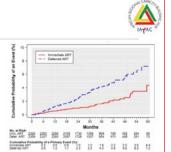
PowerPoint Slides Train-the-Trainer Manual Case Study (refer to Learning Activities section)

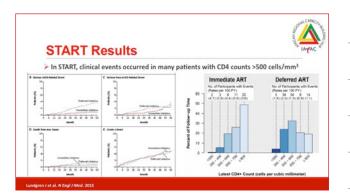
Learning Objectives

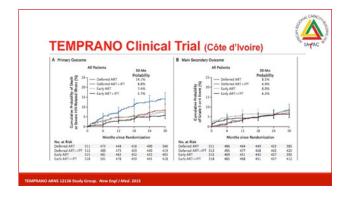
- 1. Appraise the scientific support and weaknesses for immediate initiation of ART (test and treat)
- Describe how HIV viral load testing should be optimally used for monitoring ART
- Define how community-based ART distribution and pharmacies strengthens the HIV care continuum

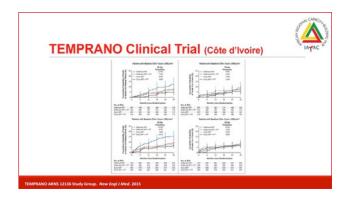
Introduction

- Increasing early access to ART is associated with decreased AIDS-related morbidity, mortality and transmission
 START showed >50% reduction in:
- risk of progression to AIDS
 other serious illness (including TB or cancer) or death among people who initiated ART with CD4 >500 cells/mm³
 compared with deferred ART initiation after CD4 <350 cells/mm³









HPTN 052 and PARTNERS



Final results of the HPTN 052 clinical trial found no cases of linked HIV sexual transmission from HIV-positive partner was on stable ART after 9,800 patient years of follow up¹

Preliminary results of the PARTNERS study of 1,100 serodiscordant couples with incomplete condom use (40% MSM) found no HIV transmission within couples after 30,000 sexual encounters from a partner with an undetectable viral load²

Increasing HIV Treatment



> Offer ART after HIV diagnosis, irrespective of CD4 count

insum for Adults and Adolescents, 2015

ART regimens with the highest levels of efficacy, lowest adverse event profile are recommended, preferably in fixed-dose, oncedaily combinations

Increasing HIV Treatment (continued)

um for Adults and Adu



If viral load is not routinely available, CD4 count and clinical monitoring should be used to diagnose ART failure

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- Plasma HIV-1-RNA level is the preferred monitoring laboratory tool and should
- be used after ART initiation as a means to monitor the response to ART
- Among individuals who are on stable ART with CD4 count >350 cells/mm³ and who have been virologically suppressed for 2 years, viral load monitoring can be performed every 6-12 months

mts, 2015

WHO 1st Line ART Recommendations (2013)

Preferred regimens	TDF + 3TC (or FTC) + EFV
Alternative regimens	AZT + 3TC + EFV (or NVP) TDF + 3TC (or FTC) + NVP
Special circumstances	Regimens containing ABC, d41 th and boosted PIs
HIV (10 years and older). Using d4T as an option in first-line tr	first-line ART for children three years and sider which includes adolescents infected with eatment should be discontinued and reatricted to special cases in which other ARV drugs py with this drug should be illmited to the shortest time possible and include close

Recommendation 1: When to start ART among people living with HIV						
Target population	Specific recommendation	Strength of the recommendation	Quality of the evidence			
Adults* (>19 years)	ART should be initiated in all adults living with HIV at any CD4 cell count	Strong	Moderate			
	As a priority, ART should be initiated in all adults with severe or advanced HIV clinical disease (WHO clinical stage 3 or 4) and individuals with CD4 count s350 cells/mm ³	Strong	Moderate			

VHO AR	T Recommendat	ions - 2	015
Pregnant and breastfeeding women	ART should be initiated in all pregnant and breastfeeding women living with HIV at any CD4 cell count and continued lifelong	Strong	Moderate
Adolescents (10–19 years old)	ART should be initiated in all adolescents living with HIV at any CD4 cell count	Conditional	Low
	As a priority, ART should be initiated in all adolescents with severe or advanced HIV clinical disease (WHO clinical stage 3 or 4) and individuals with CD4 count <350 cells/mm ³	Strong	Moderate



 Randomized international study (N = 630 adults) randomized to receive efavirenz 400 mg vs 600 mg with tenofovir and emtricitabine

No difference in viral suppression 400 mg group had significantly fewer adverse events and fewer patients stopping treatment for adverse events



Drug Resistance Testing



HIV drug resistance testing is recommended at entry into care or prior to ART initiation, and when virologic failure is confirmed

- Transmitted or treatment-emergent HIV drug resistance may limit the response to ART
 Resistance testing for an individual is recommended in contexts where there is availability of second- and third-line ART

Where routine access to HIV drug resistance testing is restricted, nonulation-based surveillance is recommended

Practical Considerations



ART is recommended for all PLHIV Early initiation associated with decreased risk of complications (e.g., TB)

Patients on stable ART rarely transmit HIV

- Viral load testing is preferred for monitoring ART
 Viral suppression to below level of detection is the goal of ART
 Should be monitored at least every 6 months
- Fenofovir + emtricitabine (or lamivudine) + efavirenz is standard WHO-recommended first-line ART

MODULE 5

DEFINING HIV TREATMENT FAILURE AND SELECTION OF 2ND LINE ART

TRAINER GUIDE

Time Required: Approximately 15 minutes

Learning Objectives:

- 1. Define "HIV treatment failure" (virologic failure)
- 2. Describe how ART monitoring should be optimally performed
- 3. Discuss the use of 2nd line ART and which regimens are recommended by WHO

Description of Supporting Materials: PowerPoint Slides Train-the-Trainer Manual Case Study (refer to Learning Activities section)



Learning Objectives

- 1. Define "HIV treatment failure" (virologic failure)
- 2. Describe how ART monitoring should be optimally performed
- 3. Discuss the use of second-line ART and which medications are recommended by WHO

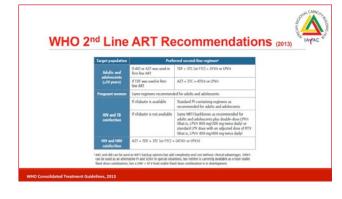


Defining & Monitoring Treatment Failure

Treatment failure is defined by a persistently detectable viral load exceeding 1,000 copies/ml (e.g., two consecutive viral load measurements within a three-month interval, with adherence support between measurements) after at least six months of using ARV drugs

Viral load testing every six months is recommended as the preferred tool for monitoring ART response

 If viral load is not routinely available, CD4 count and clinical monitoring should be used to diagnose treatment failure²



MODULE 6

CONSIDERATIONS FOR ENGAGING KEY POPULATIONS IN HIV CARE

TRAINER GUIDE

Time Required: Approximately 30 minutes

Learning Objectives:

- 1. Discuss common challenges to engagement in care for key populations
- 2. Summarize guidance for engaging key populations across the HIV care continuum

Description of Supporting Materials: PowerPoint Slides Train-the-Trainer Manual Case Study (refer to Learning Activities section)

Learning Objectives

Discuss common challenges to engagement in care for key populations

2. Summarize guidance for engaging key populations across the HIV care continuum

Common Challenges



Population-specific policies/programs needed to address:

- Pervasive stigma and discrimination
- Violence, including intimate partner violence
- Mistrust of medical providers or health systems
 Unmet needs of daily living (e.g., food and shelter)
- Lack of access to culturally appropriate services
- Un- or under-addressed co-morbidities
- Suboptimal access to evidence-based interventions
- .

Key Populations (for purposes of this training course)

- Pregnant women
- > Adolescents
- Men who have sex with men (MSM)
- > Transgender individuals
- > Sex workers
- Substance users
- Incarcerated populations

WHO Recommendations – Key Populations

HEALTH SECTOR INTERVENTIONS HIV PREVENTION

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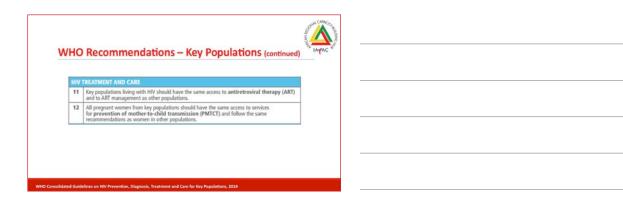
- transmitted infections (STIs).
 2 Among men who have sex with men, pre-exposure prophylaxis (PrEP) is recommended as
- NEW RECOMMENDATION
- for them are needed, daily oral PrEP (specifically tenofovir or the combination of tenofovir and emtricitabine) may be considered as a possible additional intervention for the uninfected
- 4 Post-exposure prophylaxis (PEP) should be available to all eligible people from key populations on a voluntary basis after possible exposure to HIV.
- 5 voluntary medical male circumcision (vmmc) is recommended as an additional, important strategy for the prevention of heterosexually acquired HIV infection in men, particularly in settings with hexagendamic and expected HIV addemics and low remolected of male
- circumcision.

WHO Recommendations - Key Populations (continued) 6

- 7
- All people from key populations who niped drugs should have access to sterile injecting equipment through needle and syringe programmes. All people from key populations who are dependent on opioids should be offered and har access to opioid substitution therapy. All people from key populations with harmful alcohol or other substance use should have access to evidence-based interventions, including brief psychosocial interventions inve assessment, specific feedback and advice. 8
 - People likely to witness an opioid overdose should have access to naloxone and be in its use for emergency management of suspected opioid overdose. NEW RECOMME TESTING AND COUNSELLING (HTC)

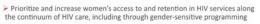
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- Voluntary HTC should be routinely offered to all key populations both in the community and in clinical settings. Community-based HIV testing and counselling for key populations, linked to prevention, care and treatment services, is recommended, in addition to provider-initiated testing and counselling. 10





Considerations for Pregnant Women



Integrate community-based support services for women within HIV care, including peer-based programs and family-based programs that engage partners and family members; at a minimum, offer direct referral to such services for women living with HIV

 \blacktriangleright Screen for and implement interventions to address food insecurity among women living with HIV

Screen for physical and emotional abuse and violence (or the risk of experiencing violence) among women across the HIV care continuum

Considerations for Pregnant Women (continued)

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Conduct non-stigmatizing discussions of pregnancy and parenting choices and the provision of family planning services to support the full range of sexual and reproductive rights of women living with HIV

- Implement interventions to scale-up access to and retention in HIV care and treatment for pregnant and breastfeeding women living with HIV; such interventions should also include socioeconomic support
- Scale-up pediatric HIV services for infants born to HIV-positive mothers to promote both child and maternal health
- Tailor ART prescribing practices to consider women's use of other medications (e.g., contraceptives), as well as potential side effects in women
- Address the challenges faced by younger women living with HIV across the HIV care continuum

Treatment for Pregnant and Breastfeeding Women > A once-daily fixed-dose combination of TDF + 3TC (or FTC) + EFV is recommended as 1st line ART for first trimester of pregnancy

The recommendation applies both to lifelong treatment and to ART initiated for PMTCT and then stopped

Infants of mothers who are receiving ART and are breastfeeding should receive six weeks of infant prophylaxis with daily NVP

If infants are receiving replacement feeding, they should be given four to six weeks of infant prophylaxis with daily NVP (or twice-daily AZT); infant prophylaxis should begin at birth or when HIV exposure is recognized postpartum

HO Consolidated Treatment Guidelines, 2013

Considerations for Adolescents

sing the HIV Care C

Remove adult-assisted consent to HIV testing and counseling in minor adolescents with the capacity to consent

Adolescent-centered services are recommended in both clinical and community-based settings delivered by staff who understand and respect consent and confidentiality

Develop a healthcare transition plan between pediatric and adult care

mts, 2015

Key Population Considerations

Develop and adopt standards for the provision of culturally competent care and the dissemination of information/educational materials in clinical programs for all MSM to address medical mistrust, promote confidentiality, and minimize stigma, with specific attention to MSM from racial or ethnic minority populations

 Offer supporting services in community-based settings in order to reach MSM who may not access HIV testing services in clinical settings

Offer STI testing, including screening for syphilis, Chlamydia, and Gonorrhea in all relevant anatomical sites; screen for viral hepatitis and vaccinate susceptible MSM for (HAV and HBV); vaccinate MSM aged less than 26 for HPV; provide anal examination for HPV-associated pathology

Facilitate the linkage to care of MSM youth at HIV testing sites through direct referral to MSM peer navigators

felines for Ontimitine the NIV Care Continuum for Adults and Adulescents. 2015

Key Population Considerations (continued)

Transgender Individuals

Develop and adopt standards for the provision of culturally competent care and the dissemination of information/educational materials in clinical programs for transgender individuals to address medical mistrust, promote confidentiality, and correct misperceptions regarding HIV treatment and transgender-specific medical care

Consult with or refer HIV-positive transgender individuals on ART who wish to start hormone therapy to a clinician experienced in transgender medical care





Key Population Considerations (continued)

Sex Workers

Failor HIV prevention, treatment, and care interventions for sex workers, including voluntary HIV, STI, and viral hepatitis (HBV and HCV) screening, condom promotion, and access to ART

Implement programs to scale-up access and address barriers to ART which are led by and for sex workers living with HIV

nts, 2015

Key Population Considerations (continued)

Substance Users

Scale-up evidence-based treatment for substance use, in particular opioid substitution therapies

- Implement time-limited DAART with substance users at high risk of non-adherence
- Conduct comprehensive and integrated assessments for and provide treatment of co-morbid psychiatric illnesses, in particular depression, among substance users

Key Population Considerations (continued)



Offer universal HIV testing, particularly in jurisdictions with hyper-endemic rates of incarceration, so that the offer of HIV testing in correctional healthcare settings mirrors that in community health settings

- Implement interventions to prevent HIV transmission among populations that move into, dwell in, or leave correctional facilities, while delivering general interventions that decrease intimate partner/sexual violence, promote harm reduction, and address substance use
- Ensure that health services in jails and prisons follow international guidelines for HIV care, including for the management of HIV comorbidities that occur at high frequency in incarcerated populations
- Promote two-way, comprehensive communication between correctional and community HIV providers to ensure that there are no gaps in care, treatment, and support services as people transition to and from their communities and correctional facilities



MODULE 7

ACHIEVING LONG-TERM RETENTION AND ENGAGEMENT IN HIV CARE

TRAINER GUIDE

Time Required: Approximately 30 minutes

Learning Objectives:

- 1. Identify barriers to retention in the HIV care
- 2. Describe clinic-level interventions to improve engagement in care
- 3. Discuss strategies to mitigate loss to follow-up and facilitate re-engagement in care

Description of Supporting Materials: PowerPoint Slides Train-the-Trainer Manual Case Study (refer to Learning Activities section)



Learning Objectives

- 1. Identify barriers to retention in the HIV care
- 2. Describe clinic-level interventions to improve engagement in care
- 3. Discuss strategies to mitigate loss to follow-up and facilitate reengagement in HIV care

Introduction

- Barriers to HIV treatment engagement are common across countries, even when local resource bases may differ widely
- Efficiently keeping people engaged in their care is more critical than ever, as resources are ultimately limited in every setting, and growing numbers of PLHIV are in need lifelong quality care

Long-Term Retention in Care

Retention in care is associated with improved individual health outcomes and may reduce community-level viral burden, with implications for secondary prevention

Systematic monitoring of retention in HIV care is recommended for all patients

 Although monitoring retention is routinely recommended, specific details, such as retention measures to be used and desired visit frequency, vary among jurisdictions and programs and should be in harmony with national and international guidelines

Adherence Monitoring

Routine ART adherence monitoring is recommended in all patients

- Measurement methods include:
 - > Tracking pharmacy/clinic visits
 - > Measuring viral load as the primary adherence monitoring metric
 - Collection of self-reported adherence data
 - Collecting pharmacy refill data

Pill count, electronic drug monitoring, or ARV drug concentrations in biological samples are <u>NOT</u> routinely recommended

Long-Term Engagement



Information and communication technologies and staff-/peerdelivered counseling are recommended

Mobile health technology using weekly interactive components (e.g., 2-way SMS)
 Alarm devices as reminders for PLHIV with memory impairment

Proactive engagement and re-engagement of patients who miss clinic appointments and/or are lost to follow-up is recommended

 \circ Includes intensive outreach for those not engaged in care within one month of a new HIV diagnosis

m for Adults and Adu

mts, 2015



Monitoring ART Adherence

> Self-reported adherence is less strongly associated with treatment responses than are electronic drug monitor- or pharmacy-based measures, but relative ease of implementation supports its use in clinical care

Careful attention must be paid to collecting self-report data in a manner that makes reasonable demands on memory

Questionnaires should inquire only about specific doses taken over a short time interval (e.g., in the previous week) and about global measures of adherence over a longer time interval (e.g., in the previous month)





LEARNING ACTIVITIES

LEARNING ACTIVITY MODULES 2-3

Case Study Application. Teams of two to four trainees are given a patient case study and asked to apply the information learned from Modules 2-3. This team activity is followed by a whole class discussion of each team's conclusions and responses to the case study questions. This exercise requires approximately one hour to complete.

CASE STUDY 1 (PART 1)

Ms. AB is a 26-year-old woman in a sexual relationship with an HIV-positive partner who is not yet on ART. She has a 17-month-old child. Ms. AB and her partner use condoms most but not every time that they have sexual intercourse. She has not had an HIV test since the delivery of her baby, and she reports having had condom-less sex 4 nights ago.

Questions:

- 1) How do you assess Ms. AB's HIV risk?
- 2) Should Ms. AB receive an HIV test? Why has she not been tested recently? Describe possible barriers to her getting tested.
- **3)** What structural interventions could help Ms. AB or other members of her community increase their rates of HIV testing?
- **4)** Who should perform HIV testing? In what setting(s) should testing be performed? Why?
- 5) Should her child receive an HIV test?

CASE STUDY 1 (PART 2)

Ms. AB tests HIV negative and is interested in HIV prevention.

Questions:

- **6)** Is she a candidate for post-exposure prophylaxis (PEP)? How would you counsel Ms. AB about PEP.
- **7)** What is the recommended protocol for PEP? How soon must PEP be started to be effective? What is the duration of PEP treatment?
- **8)** Is she a candidate for pre-exposure prophylaxis (PrEP)? Discuss why or why not.
- 9) When should she receive another HIV test?

CASE STUDY 1 (PART 3)

Ms. AB received neither PEP nor PrEP because she stated that taking "HIV pills" is highly stigmatizing in her community, including within your clinic where patients who have been prescribed ARV drugs are treated poorly by clinic staff. She has consistently missed clinic appointments over the past 8 months.

Questions:

- **10)** Why is stigma within healthcare settings a barrier to increased HIV testing, care, and treatment? What can be done to create a patient-friendly environment?
- **11)** What is the recommended intervention to re-engage Ms. AB in care? Who should be involved in attempting to re-engage Ms. AB in care and ensure she makes clinic appointments?

CASE STUDY 1 (PART 4)

Ms. AB returns to the clinic almost a year since her last clinic visit. She requests an HIV test. She tests HIV positive.

Questions:

- **12)** Why is linkage to HIV care important? Who should initiate linkage to HIV care? When should this happen?
- **13)** What are some potential barriers to successful linkage to HIV care?
- **14)** What structural interventions improve linkage to HIV care?
- **15)** Using members of your team, select one person to act as Ms. AB, the others as members of your care team. Role play the counseling involved in informing Ms. AB of her HIV status and how you would link her to care. What practices are recommended? What practices are not recommended?

CASE STUDY 1 (PART 5)

Your clinic has documented low HIV testing coverage within its catchment area, however your clinic does not generate data related to linkage to HIV care (preventive and therapeutic).

Questions:

- **16)** What is the HIV care continuum?
- 17) Why is monitoring HIV testing coverage important?
- **18)** Why is generating linkage to HIV care data important?
- **19)** For purposes of measuring the HIV care continuum, what denominator does the 2015 IAPAC guidelines recommend?

Case Study Review. Teams of two to four trainees are given a patient case study and asked to apply the information learned from Modules 2-7. This team activity is followed by a whole class discussion of each team's conclusions and responses to the case study questions. This exercise requires approximately one hour to complete.

CASE STUDY 2 (PART 1)

Mr. CD is a 32-year-old man who was recently diagnosed HIV positive in your clinic.

Questions:

- 1) According to 2015 IAPAC and WHO guidelines recommendations, is Mr. CD's CD4 count a criterion for initiating ART?
- **2)** Describe recent randomized clinical trials showing clinical benefit for ART in asymptomatic HIV-infected adults.
- **3)** What first-line ART should Mr. CD receive? Outline changes in first-line ART recommendations by the 2015 WHO guidelines.
- **4)** How should drug resistance testing be used for Mr. CD?
- 5) What is HIV treatment failure? How is HIV treatment failure defined?

CASE STUDY 2 (PART 2)

Mr. CD is initiated on ART.

Questions:

- 6) What interventions should be used to reinforce and monitor Mr. CD's retention in HIV care?
- 7) How should his HIV treatment adherence be monitored?
- 8) What members of the care team should play a role in monitoring Mr. CD's HIV treatment adherence?

CASE STUDY 2 (PART 3)

You now learn that Mr. CD uses injection drugs. Referral to a mental health counselor confirms clinical depression.

Questions:

9) What interventions are recommended to address his substance use?

- **10)** If available, should needle and syringe exchange and opiate substitution programs be incorporated into care?
- **11)** What interventions are recommended to address his clinical depression? How important is it to do so in the context of HIV treatment? Quality of life?

CASE STUDY 2 (PART 4)

Mr. CD's wife is 8 weeks pregnant and unfortunately also tests positive for HIV.

Questions:

- **12)** When should she initiate ART? What ARV medications are recommended?
- **13)** What types of interventions are recommended to enhance her engagement in HIV care?

CASE STUDY 2 (PART 5)

Mr. CD has a 14-year-old daughter who is sexually active.

Questions:

- **14)** Ideally, and according to 2015 IAPAC guidelines, should Mr. CD's daughter require parental consent to have an HIV test?
- **15)** What types of services are recommended for adolescents who are diagnosed HIV positive?

CASE STUDY 2 (PART 6)

Your clinic generates HIV testing coverage, linkage to HIV care, and ART initiation data for its catchment area, however it does not generate viral suppression data.

Questions:

- **16)** Why is monitoring viral suppression an important metric?
- **17)** Why should your clinic consider longitudinal cohort measurement of HIV service utilization and treatment outcomes?

PATIENT EDUCATION

What is HIV?

- HIV is a disease caused by the human immunodeficiency virus.
- The most advanced stage of HIV infection is acquired immunodeficiency syndrome (AIDS) but not every person infected with HIV develops AIDS.
- HIV continues to be a major global public health issue:
 - According to the Joint United Nations Programme on HIV/AIDS (UNAIDS), there were approximately 35 million people living with HIV by the end of 2013.

How is HIV spread?

- HIV is spread through contact with the blood, breast milk, semen, or vaginal fluid of an infected person.
- HIV is more easily transmitted in the presence of other sexually transmitted diseases.

Who is at risk of getting HIV?

Behaviors and conditions that put individuals at greatest risk of contracting HIV include:

- Sharing unsterilized needles for medical or dental procedures (blood transfusions, acupuncture, etc.), tattoos, or injection drug use;
- Having unprotected sexual intercourse (anal or vaginal);
- Having another sexually transmitted infection;
- Occupational blood exposure to HIV in a healthcare setting;
- Having received a blood transfusion or blood products before 1990; and
- Having a mother who has HIV.

What are the symptoms of HIV infection?

- The symptoms of HIV vary depending on the stage of the infection. Though people living with HIV tend to be most infectious in the first few months, many are unaware of their status until later stages.
- In the first few weeks following initial infection, individuals may experience no symptoms at all or an influenza-like illness that includes fever, headache, rash, or sore throat.
- As the infection progressively weakens the person's immune system, the individual can develop other signs and symptoms such as swollen lymph nodes, weight loss, fever, diarrhea, and coughing.
- Without treatment, they could also experience severe illnesses such as tuberculosis, cancers, etc.

Is HIV a preventable disease?

Currently, there is no vaccine for HIV, but the infection is largely preventable.

Individuals can reduce their risk of HIV infection by adopting the following behaviors:

- Not sharing needles or other drug-related equipment;
- Ensuring that the equipment used for tattooing, piercing, or acupuncture is sterile (the safest way is to go to a professional);
- Wearing protective medical gloves and handling used needles with care in a healthcare facility where contact with someone else's blood or needle is possible;
- Getting tested for other sexually transmitted infections that may increase their susceptibility to HIV infection;
- If a woman is pregnant and has concerns, talking to her doctor; and
- Not engaging in high-risk behavior.

To prevent the spread of the virus to others, people with HIV should:

- Use condoms consistently;
- Not share needles or drug-related equipment; and
- Take HIV treatment as prescribed because it reduces the risk of transmitting the virus on to others.

Medications are also able to prevent the acquisition of HIV. Post-exposure prophylaxis (PEP) involves taking antiretroviral drugs within three days of a possible exposure to HIV. People at high risk for HIV infection who have tested HIV negative may request access to pre-exposure prophylaxis (PrEP), where it is available. However, PrEP must be used in combination with consistent condom use and other harm reduction measures.

How is HIV diagnosed?

- The only way to determine whether you are HIV positive is to be tested for HIV through a blood test that detects the presence or absence of HIV antibodies.
- HIV treatment is most effective when HIV infection is in its early stages.

Is there a treatment for HIV infection?

The human body cannot get rid of HIV. So, once you have HIV, you have it for life. Although there is no cure for HIV, effective HIV treatment with antiretroviral therapy can control the virus so that people living with HIV can enjoy healthy and productive lives without opportunistic infections or other serious diseases. Antiretroviral therapy also reduces the risk of transmitting the virus on to others.

What else can people do to live well with HIV?

- Get vaccinated against hepatitis A and hepatitis B;
- Implement lifestyle changes, such as maintaining a healthy body weight, eating a well-balanced diet, exercising regularly, quitting smoking, and avoiding alcohol and high-risk behaviors; and
- Inform their healthcare provider of any medication taken for other conditions because some medication may interfere with HIV treatment.

NOTES	

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