Improving Retention, Adherence, and Psychosocial Support within PMTCT Services:



Implementation Workshop for Health Workers

All slide illustrations by Petra Röhr-Rouendaal, 2010

Module 1: Introduction and PMTCT Update



Module 1: Learning Objectives

- · Know more about workshop participants and trainers
- · Understand the workshop goal, objectives, and agenda
- Discuss changes and updates to the national PMTCT and infant feeding guidelines

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Workshop Learning Objectives - 1

By the end of this workshop, participants will be able to:

- 1. Understand the changes to the national PMTCT guidelines and how they should be applied in clinical settings
- 2. Define the PMTCT spectrum of care
- 3. Define psychosocial and adherence support in the context of PMTCT services
- Understand the importance of psychosocial and adherence support to meet the needs of women and families enrolled in PMTCT
- Identify strategies to improve psychosocial and adherence support within PMTCT programs
- Use counseling cue cards to conduct ongoing, supportive counseling for pregnant and postpartum women

Workshop Learning Objectives - 2

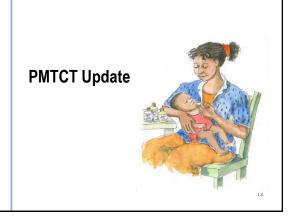
- 7. Use checklists to improve pre- and post-test counseling in PMTCT settings
- 8. Conduct a psychosocial assessment and document key points and next steps, as well as make referrals
- Use guides to conduct adherence preparation and support sessions with clients and to provide ongoing adherence assessment and follow-up
- 10. Develop and use an appointment system
- 11. Use a patient education video to reinforce key PMTCT
- 12. Use improved communication and counseling skills with clients

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Workshop Agenda

DAY	SUGGESTED TIME	SUGGESTED ACTIVITY	
DAY 1	12:30-13:00	LUNCH and WORKSHOP OPENING	
	13:00-14:30	Module 1: Introduction and PMTCT Update	
	14:30-17:10	Module 2: Retention, Adherence, and Psychosocial Support in PMTCT Programs	
DAY 2	12:30-13:00	LUNCH	
	13:00-15:30	Module 3: Using the PMTCT Counseling Cue Cards	
	15:30-17:00	Module 4: Using the PMTCT Checklists, Guides, Forms, and Video	
DAY 3	12:30-13:00	LUNCH	
	13:00-14:15	Module 4: Using the PMTCT Checklists, Guides, Forms, and Video (continued)	
	14:15-16:45	Module 5: Monitoring Adherence to PMTCT and Planning the Way Forward	
	16:45-17:00	WORKSHOP CLOSING	
(OPTIONAL)	12:30-13:00	LUNCH	
	13:00-16:30	Supplemental Module 6 (optional): Review of Counseling and Communication Skills	

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Newly Released WHO Guidelines for HIV Prevention, Care & Treatment, 2009 (and adapted at country level)

- Antiretroviral drugs for treating pregnant women and preventing HIV infection in infants ('PMTCT guidelines')
- Infant feeding in the context of HIV
- Antiretroviral therapy for HIV infection in adults and adolescents
- Antiretroviral therapy for HIV infection in infants and children

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Principle Objectives of the PMTCT Guidelines

- Maximally reduce the risk of MTCT
- Improve maternal and infant survival
- Maximize effectiveness of PMTCT, minimize side effects for mothers and infants, and preserve future HIV care and treatment options



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Rationale Underlying PMTCT Guidelines Changes

- Recognizes the importance of addressing maternal health status and ensuring ART for women eligible for treatment
- Extends the duration of prophylaxis throughout most of the period of exposure
- Emphasizes the importance of using multidrug regimens
- Recommends a single approach for ART prophylaxis (Option A or Option B) on national or sub-national level

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Two Key Approaches for PMTCT Antenatal Postpartum Late Early Labor & Delivery Breastfeeding 35%-40% Pregnancy 10-25% 35%-40% 1-6 mos 6-24 mos Lifelong ART for HIV-infected women in need of treatment for their own health*, which is also safe and effective in reducing MTCT Highlights importance of CD4 testing to determine ART eligibility ARV prophylaxis to prevent HIV transmission from mother to child during pregnancy, delivery and breastfeeding for HIV-infected women not in need of 1-10

Key WHO Recommendations

 Lifelong Antiretroviral Treatment for Pregnant Women who Qualify:

Earlier ART initiation to improve maternal health and infant outcomes

2. Maternal-Infant Antiretroviral Prophylaxis:

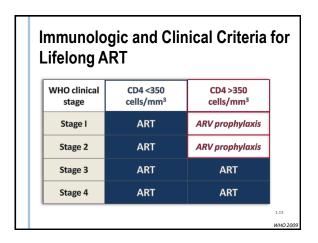
Earlier initiation and longer provision of ARV prophylaxis for HIV-infected pregnant women who do not need ART for their own health, with continued (maternal/infant) prophylaxis during breastfeeding

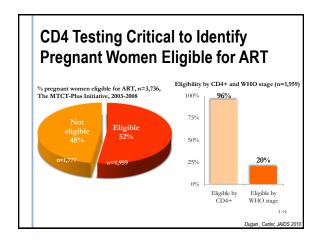
3. Infant Feeding:

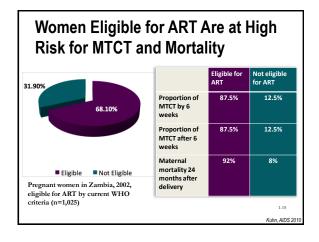
Improve HIV-free survival of HIV-exposed Infants (HEI) by **supporting safer breastfeeding practices** in the presence of ARVs (elimination of AFASS criteria)

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Recommended Regimens for ART Eligible Pregnant Women & Their Infants MATERNAL TREATMENT Start ART as soon as possible for women with CD4 < 350 or WHO Clinical Stage 3 or 4 Initiate ART at any gestational age REGIMENS Preferred Regimen AZT + 3TC + NVP AZT + 3TC + NVP TDF + 3TC(FTC) + NVP TDF + 3TC(FTC) + EFV* *EFV to be avoided in 1st trimester INFANT ARV Prophylaxis Infants (breast feeding and formula feeding): Once daily NVP or twice daily AZT from birth until 4 - 6 weeks of age

Regimen Choice for ART Eligible Women (adapt to national guidelines) • Recommended regimens parallel WHO adult ART guidelines – AZT + 3TC backbone 'preferred' for PMTCT • Demonstrated safety and efficacy of AZT + 3TC – EFV more acceptable for PMTCT • Initiate after first trimester • Effective contraception required postpartum – Each regimen carries drug specific risks and toxicities • Overall low risk of severe toxicities • Neural tube defects associated with EFV during first trimester (very rare event) – Hepatotoxicity/hypersensitivity associated with NVP particularly in women with liver dysfunction/hepatitis – TDF contraindicated with renal dysfunction • Balance in favor of protecting maternal health and preventing infant infections

Considerations for Choice of Infant Prophylaxis Regimen When Eligible Mother Receives ART

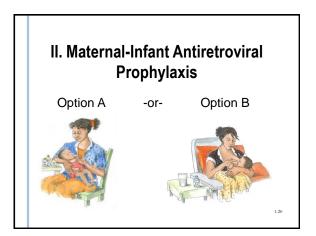
AZT

- Twice daily
- Toxicity rare: anemia, neutropenia
- Recommended in 2006 guidelines and currently in use in the field
- · Resistance mutations rare
- Not effective for prevention of BF transmission

NVP

- Once daily
- · Toxicity rare: rash
- Efficacious for prevention of BF transmission
 - May be especially useful if maternal ART is initiated late
- High rate of NNRTI resistance in babies who become infected
- Not studied in context of maternal ART during BF
- Risk of toxicity if mom and baby both on NVP

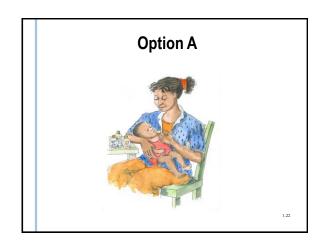
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Immunologic and Clinical Criteria for PMTCT Antiretroviral Prophylaxis (Option A or Option B)

WHO clinical stage	CD4 <350 cells/mm ³	CD4 >350 cells/mm ³
Stage I	ART	ARV prophylaxis
Stage 2	ART	ARV prophylaxis
Stage 3	ART	ART
Stage 4	ART	ART

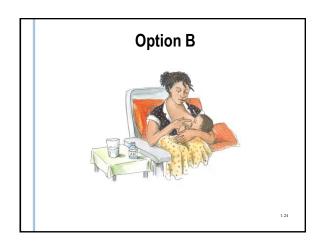
WHO 2009



Prophylaxis Regimens for Pregnant Women & Their Infants - Option A



*Infant feeding guidelines recommend breast feeding up to 12 months of age



Prophylaxis Regimens for Pregnant Women & Their Infants - Option B MATERNAL ANTIRETROVIRAL PROPHYLAXIS Initiate as early as 14 weeks gestation through delivery If breast feeding, continue until 1 week after weaning RECOMMENDED PROPHYLAXIS REGIMENS AZT + 3TC + LPV/r AZT + 3TC + LPV/r AZT + 3TC + EFV TDF + ETC (FTC) + EFV INFANT ANTIRETROVIRAL PROPHYLAXIS Breastfeeding and Non-breastfeeding Infants: Daily NVP or twice daily AZT from birth until 4-6 weeks of age



Infant Feeding Recommendations, 2010 ONE NATIONAL infant feeding strategy BREASTFEEDING IN THE PRESENCE OF ARV INTERVENTIONS Exclusive breastfeeding for the first 6 months of life Introduce complementary foods at 6 months Continued breastfeeding up to 12 months of life (Breastfeeding should then only stop once a nutritionally adequate and safe diet, without breastmilk, can be provided OR AVOID ALL BREASTFEEDING Formula provision at national level – NO AFASS Assessment

PMTCT Update Summary

- Earlier diagnosis and treatment of HIV with ART CD4 ≤ 350cells/mm³, Stage III, IV*
- Prophylaxis started earlier and longer duration
 Regimens initiated at 14 weeks gestation and continued throughout duration of breastfeeding
- Safer infant feeding practices to maximize HIV-free survival

Exclusive breastfeeding for 6 months, with breastfeeding continued through 12 months in the presence of maternal/infant prophylaxis

*critical importance of CD4 testing during pregnancy to determine ART eligibility

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Implications for Adherence Support?

- PMTCT does not end at delivery need to support adherence throughout the entire duration of PMTCT care and interventions.
- Higher CD4 (≤350 cells/mm³) means that there will be MORE pregnant women who need to initiate ART and who will need ongoing adherence support
- Earlier initiation of prophylaxis for women not eligible for ART means greater need for adherence support during pregnancy
- Extended prophylaxis during breastfeeding means greater need for adherence support postpartum
- Mothers need compassionate, consistent and ongoing support to adhere to safe infant feeding practices

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