Integrated TB and HIV Services for Pregnant Women Living with HIV in Mashonaland East Province, Zimbabwe: Opportunities and Challenges in Low Resources Settings

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Families and Communities for Elimination HIV- FACE HIV Program

BACKGROUND

- Approximately 90% of pregnant women living with HIV reside in Africa.[1]
- PLHIV are at high risk of developing TB disease 29 times compared to HIV negative counterparts.[2]
- HIV and tuberculosis (TB) disease during pregnancy results in unfavourable outcomes for both mother and infant.[3]
- HIV and TB co-infected is a major cause of morbidity and non-obstetric deaths among women.[4]
- In Zimbabwe approximately 69% of TB cases are co-infected with HIV.[5]
- HIV prevalence among women attending antenatal care (ANC) in Zimbabwe is high, 15.9%.[6]
- An integrated approach for TB/HIV services is required to improve maternal health outcomes and elimination of new HIV and TB infections among children.
- In partnership with the Ministry of Health and Child Care, Mashonaland East Province we assessed opportunities and challenges to integration of TB/ HIV services for pregnant women in ANC.

DESCRIPTION

- In November-December 2014, the PEPFAR/USAID funded OPHID Families and Communities for the Elimination of HIV (FACE) program supported an assessment of integration of TB/HIV services for pregnant women.
- 10 health facilities (four hospitals and six primary care facilities) in two of 56 districts supported by OPHID were randomly selected for assessment using routinely collected program data at each facility.
- Data from health facility registers of HIV positive women who accessed routine ANC/PMTCT services between Oct 2013 and Sept 2014 were abstracted.
- A retrospective review from Oct 2013 and Sept 2014 for women of reproductive age 15-49 collected routinely under the TB program was conducted.
- Client name, age and address were used to manually link the clients across the ANC/PMTCT and TB registers.

LESSONS LEARNED

Population of women attending ANC

- 3,477 first ANC bookings were recorded, October 2013 to September 2014 (1 year).
- 99% of the pregnant women were tested for HIV and received their results.
- HIV prevalence among the women attending ANC (newly tested and known HIV positive status) was 15.9% (n=554).
- Of the 257 known HIV positive women 77% (n=199) were already on ART.
- There was near universal access to antiretroviral therapy (ART) as 97% were initiated on ART, consistent with Option B+ being implemented in the country.

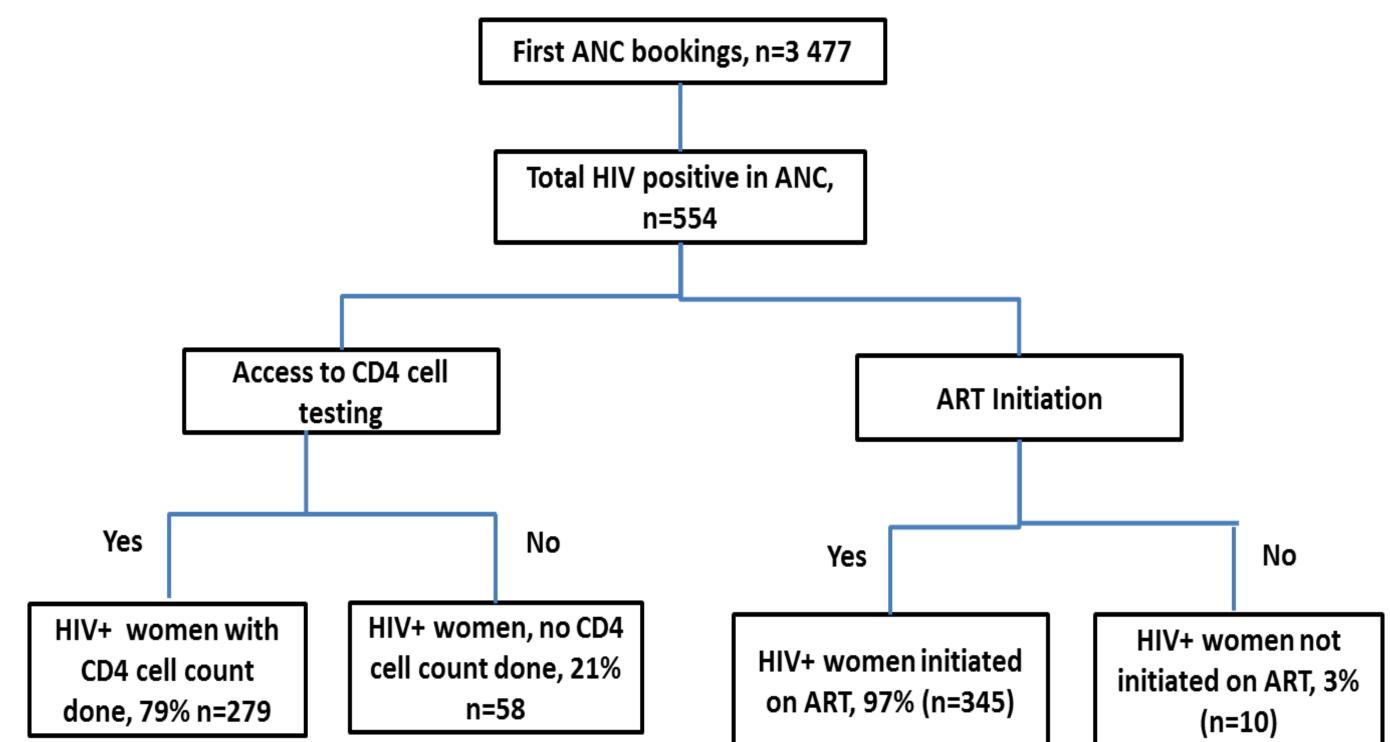


Figure 1. Uptake of HIV services among pregnant women for PMTCT

Documented uptake of TB Services among HIV-positive women, 15-49 years

- 227 presumptive TB cases of women aged 15-49 with documented HIV positive test result were recorded in the presumptive TB registers.
- Of these 98% (222) submitted sputum for investigations.
- 16 cases had sputum smear positive results representing a case detection rate of 7%.
- 81% of the detected cases were new smear TB cases.
- Treatment outcomes: a) 5 cases were treated successfully b) 3 of the women died, c) 5 were not evaluated and d) 3 transferred out.

LESSONS LEARNED continued

Integrated TB/HIV services for HIV Positive Pregnant Women in ANC

- There are two models of integrated TB/HIV services for women attending ANC:
 - a)Primary care facilities have a fully integrated model (excluding laboratory diagnostic testing), where TB and PMTCT services are provided in the same room by the same staff.
 - b) District and mission hospitals have a partially integrated model where services are colocated at the same health facility, but offered in separate departments and rooms. Services are synchronized through referral of clients.
- 99% (n=548/554) of the HIV positive pregnant women in ANC were screened for TB using the symptom screening tool.
- Very few presumptive TB cases were found among the pregnant women living with HIV, 5 out of 548 women screened for TB in ANC.
- There was no documentation of the symptom screening outcomes of all the ANC attendees.
- 4 pregnant women submitted sputum for laboratory investigations and all had sputum smear negative results.
- Lack of standard referral systems to ensure all women referred for TB services have access to the required services along the TB/HIV continuum of care.

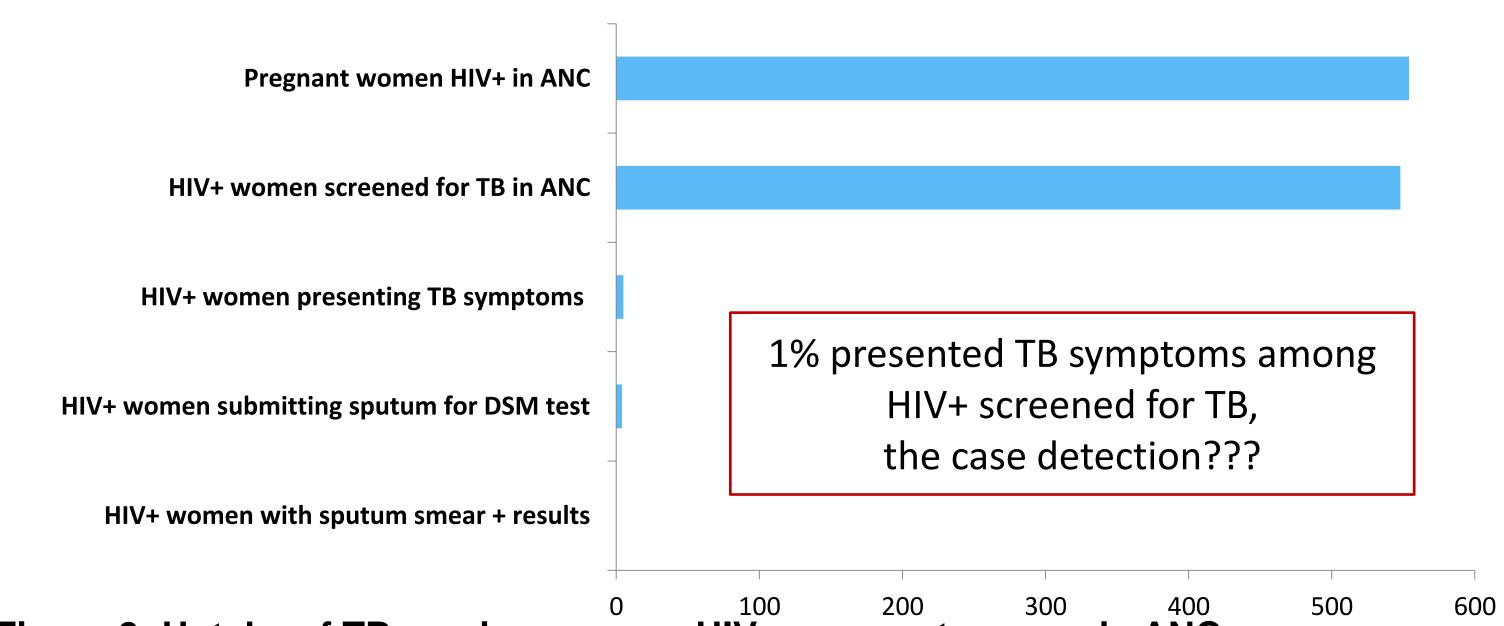


Figure 2: Uptake of TB services among HIV+ pregnant women in ANC

Opportunities and Challenges for Integrated TB/HIV Services for ANC **Attendees**

- Existence of national policy and guidelines on integrated TB/HIV services with PMTCT program being one of the priority entry points for access to TB services and care for HIV positive pregnant women identified during ANC.
- Large number of women accessing ANC services reflects an important opportunity for integrating TB/HIV services particularly early detection of TB in high risk women living with HIV and their exposed infants post-delivery.
- However, challenges in offering integrated TB/HIV services identified include:
 - a) lack of documentation of the screening outcomes;
 - b) weak or poor communication and sharing of information systems between services, specifically in referral based model of integration at hospital level;
 - c) poor linkages between the PMTCT and TB registers hinder active follow-up of referred clients;
 - d) inconsistency of sputum sample collection at primary healthcare facilities for laboratory investigations.

NEXT STEPS

- Strengthening integration of TB/HIV services for pregnant women in ANC in Zimbabwe has potential to significantly contribute to the reduction of TB morbidity and mortality in PLHIV and prevent secondary infections in infants.
- Addressing the structural challenges affecting provision of integrated services through coordinated monitoring and documentation of services provided will support active follow-up of patients by healthcare providers to minimise lost opportunities along the TB/HIV continuum of care.
- Collaborative support and supervision for the PMTCT and TB programs for optimization of support systems and ensure HIV positive mothers and children access comprehensive treatment and care.
- To explore the perceptions of TB/HIV co-infected mothers towards the provision of integrated TB/HIV care during routine ANC services

REFERENCES

- 1. UNAIDS. 2014. 2014 Progress Report on The Global Plan towards the Elimination of new HIV Infections among Children by
- 2015 and Keeping their Mothers Alive. Geneva. Joint United Nations Programme on HIV/AIDS (UNAIDS). 2. World Health Organization. 2014. Global tuberculosis report 2014. Geneva, Switzerland. World Health Organization.
- Getahun H, et al. Prevention, diagnosis, and treatment of tuberculosis in children and mothers: evidence for action for maternal, neonatal, and child health services. J Infect Dis 2012; 205: S216–S2
- 4. Grange, J., et al., Tuberculosis in association with HIV/AIDS emerges as a major nonobstetric cause of maternal mortality in Sub-Saharan Africa. International Journal of Gynaecology Obstetrics, 2010. 108(3).
- 5. MOHCC. 2014. National Tuberculosis Control Annual Report 2013. Harare. Ministry of Health and Child Care Zimbabwe. 6. Zimbabwe Ministry of Health and Child Care. National Survey of HIV and Syphilis Prevalence among Women attending
 - Antenatal Clinics in Zimbabwe 2012. Harare: MOHCC; 2013





