

## *Sero-prevalence of Syphilis and HIV and associated factors in pregnant women attending ANC Clinics in Debre Berhan Public Health Institutions, North Shewa, Ethiopia: retrospective cross-sectional study*



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### *Abstract*

**Background:** Syphilis is caused by bacteria known as *Treponema palladium* and it is transmitted through sexual contact, via blood transfusion, or transplacentally from a pregnant woman to her fetus. Among STIs, syphilis and HIV are significant public health problems in Ethiopia and causes several adverse pregnancy outcomes. Thus this study aims to assess magnitude of both infections among pregnant women attending antenatal care in Debre Berhan Public health institutions.

**Objective:** To determine sero-prevalence of Syphilis and HIV infections and associated factors among pregnant women attending antenatal care in Debre Berhan Public health institutions, North Shewa, Ethiopia, 2018.

**Methods:** Facility based retrospective cross-sectional study (record review) was conducted in Debre Berhan public health institutions from Sep 2015 to August 2017 on individual ANC chart using structured checklist. Quality of the data was maintained through providing training to the data collector, and collecting the data using pretested checklist. Finally data was entered to EPI Data3.02; descriptive and binary logistic regression analysis was done using SPSS version16, variables in multivariate analysis with p-value < 0.05 will be considered statistically significant.

**Result:** In this study, overall 7 (1.8%) and 28 (7.2%) of pregnant mothers were positive for syphilis and HIV respectively. The highest number of syphilis and HIV prevalence were reported in 2015. Previous history of STD for syphilis (AOR 9.4; 95% CI 1.6-25) and HIV (AOR 8.2; 95% CI 2.2-31.8), previous history still birth for syphilis (AOR 4.9; 95% CI 1.1-23.4) and HIV (AOR 5.6; 95% CI 1.8-17.1) and partner HIV test positive for HIV (AOR 11.9; 95% CI 1.18-20.6).

**Conclusion and Recommendation:** Syphilis and HIV infections were prevalent among pregnant women in our study area. Risk factors for both infections were mother history of STD and history of still birth, so health information dissemination for every pregnant woman is important during her ANC visit and partner testing is recommended.

**Key words:** Syphilis, HIV, Debre Berhan, Prevalence



**Biography:** Teferi Yidenek Alene was born in Dessie, Ethiopia on 27 August 1985. I am graduated from Jimma University in Medical Laboratory Technologist in June 2007. After receiving my degree I started working as Junior Medical Laboratory Technologist profession and then promoted to the department head of laboratory in Mehal Meda Hospital in Ethiopia. In 2010 after receiving my professional registration and licensing certificate and I pursue training in ART, Malaria, on sexually transmitted diseases (STIs), TB and HIV; I deployed to Debre berhan referral Hospital and served as Senior Medical Laboratory Technologist profession in ART clinic and department head of laboratory.

### *Speaker Publications:*

1. "Sero-Prevalence of Syphilis among Pregnant Women Attending Antenatal Careclinic at Jimma Univeristy Specialized Hospital, Ethiopia". International Journal of Research Studies in Microbiology and Biotechnology, Volume 5, Issue 1, 2019, PP 28-31.
2. "Corporate Social Responsibility (CSR) Practices in Coffee Producer Farmers" Cooperative Unions: The Case of Bench-Maji, Kaffa, and Sheka Zones, South Western Ethiopia". World Journal of Business and Management, ISSN 2377-4622 2019, Vol. 5, No. 1.

3. “Challenges on the Development of Cooperatives”. American Research Journal of Business and Management, vol-5, issue-1

[European Summit on HIV, STD and STIs](#); Webinar – August 19-20, 2020;

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