The prevalence of syphilis in pregnant women in Akwa Ibom State, Southern Nigeria

Sir,

I have two comments on the interesting study published by Opone *et al.*^[1] in May-August 2019 issue of the *Tropical Journal of Obstetrics and Gynaecology*.

First, on employing serology, the authors found that the estimated prevalence of syphilis in a cohort of Nigerian pregnant was 1.98% and the prevalence rates in urban and rural areas were 2.63% and 1.32%, respectively.^[1] Owing to the presence of the following limitation, I assume that the study results must be handled with cautions. It is worthy to mention that there are different methods to test for syphilis. Studies have shown that polymerase chain reaction (PCR) technique is superior to serology in precisely detecting syphilis.^[2,3] I presume that if the authors employed PCR instead of serology in the study methodology, more precise estimate of syphilis seroprevalence among Nigerian pregnant would be obtained.

Second, it is noteworthy that there are bidirectional relationships between infection with human immunodeficiency virus (HIV) and many sexually transmitted infections, including syphilis. On one hand, HIV could influence the clinical presentation, treatment outcome, and progression of syphilis. On the other hand, syphilis could increase both plasma and genital HIV RNA levels and, thus, exaggerating the transmissibility of syphilis.^[4] Indeed, Nigeria is among the sub-Saharan countries involved substantially with HIV epidemic. The recently published data pointed out to the substantial HIV seroprevalence rate (8.5%) among pregnant.[5] The determination of HIV status in the studied cohort in Opone et al.'s study[1] by the diagnostic battery of viral overload and CD4 lymphocyte count measurement would have solicited. Hence, HIV reactivity must be regarded as an important exclusion criterion in the study methodology.

Financial support and sponsorship

None.

Conflicts of interest

There are no conflicts of interest.

MAHMOOD DHAHIR AL-MENDALAWI

Department of Paediatrics, Al-Kindy College of Medicine, University of Baghdad, Baghdad, Iraq

Address for correspondence:

Prof. Mahmood Dhahir Al-Mendalawi, P.O. Box 55302, Baghdad Post Office, Baghdad, Iraq. E-mail: mdalmendalawi@yahoo.com

References

- Opone CA, Abasiattai AM, Utuk MN, Bassey EA. The prevalence of syphilis in pregnant women in Akwa Ibom State, Southern Nigeria. Trop J Obstet Gynaecol 2019;36:224-31.
- Gayet-Ageron A, Lautenschlager S, Ninet B, Perneger TV, Combescure C. Sensitivity, specificity and likelihood ratios of PCR in the diagnosis of syphilis: A systematic review and meta-analysis. Sex Transm Infect 2013:89:251-6.
- Zhou C, Zhang X1, Zhang W, Duan J, Zhao F. PCR detection for syphilis diagnosis: Status and prospects. J Clin Lab Anal 2019;33:e22890.
- Chun HM, Carpenter RJ, Macalino GE, Crum-Cianflone NF. The role of sexually transmitted infections in HIV-1 progression: A comprehensive review of the literature. J Sex Transm Dis 2013;2013:176459.
- Omatola CA, Lawal C, Omosayin DO, Okolo MO, Adaji DM, Mofolorunsho CK, et al. Seroprevalence of HBV, HCV, and HIV and associated risk factors among apparently healthy pregnant women in Anyigba, Nigeria. Viral Immunol 2019;32:186-91.

This is an open access journal, and articles are distributed under the terms of the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 License, which allows others to remix, tweak, and build upon the work non-commercially, as long as appropriate credit is given and the new creations are licensed under the identical terms.

Access this article online	
	Quick Response Code
Website: www.tjogonline.com	
DOI: 10.4103/TJOG.TJOG_91_19	

How to cite this article: Al-Mendalawi MD. The prevalence of syphilis in pregnant women in Akwa Ibom State, Southern Nigeria. Trop J Obstet Gynaecol 2020;37:216.

Received: 20-09-2019 Revised: 18-02-2020

Accepted: 15-04-2020 Published Online: 14-08-2020

© 2020 Tropical Journal of Obstetrics and Gynaecology | Published by Wolters Kluwer - Medknow