

## Precancerous cervical lesions among HIV-positive women in Benin in 2017: Prevalence and determinants

Elfried Salanon

University of Limoges, France



### Abstract

**Background:** Precancerous lesions of the cervix are common in HIV-positive and are caused by the human papillomavirus (HPV) in 97% of cases. Despite the high rate of HIV in Benin, the proportion of cervical pre-cancer is still unknown. The objective of this study is to determine the prevalence of precancerous cervical lesions and their determinants in HIV-positive women (HPW) in Benin, West Africa, 2017.

**Methods:** It was a cross-sectional study conducted from September to November, 2017. The study population was made of consenting HPW. Women with suspected precancerous lesions at Visual inspection with acetic acid and Lugol, were given a cervical biopsy followed by a pathological examination. Data were analyzed using R software. The significance threshold used was 5%. Log-binomial regression was used to identify the determinants.

**Results:** Two hundred (200) women's were included in the study. The median age was 35 years with an interquartile range (IQ) of [30.05-41.00]. All of these women were carriers of HIV 1. The median recent CD4 count was 335.65 IQ [170.50-384.66]. The prevalence of precancerous cervical lesions based on pathological examination in our study was 27%, 95%CI [24.10; 29.90]. Low-grade cervical intraepithelial neoplasia (CIN I) lesions accounted for 81.66% of cases. The determinants of the precancerous lesions found were severe immunosuppression ( $CD4 \leq 200$ ) with  $p=0.002$  and absence of Cotrimoxazole treatment ( $p=0.026$ ).

**Conclusion:** These results highlight the importance of severe immunosuppression in the development of precancerous cervical lesions in HPW. Early detection and better follow-up of HPW are needed.

**Keywords:** HIV, cervix, precancerous lesions, Benin.



### Biography:

Elfried Salanon is currently intern at the Institute of Epidemiology of Limoges (IENT) to complete his Master degree in Epidemiology of chronic disease from University of Limoges, France. He is an Associate Researcher at the Institute of Epidemiology, Benin. Member of the global Non communicable disease alliance; his team published many paper in reputed journals in Chronic disease (cervix cancer, Epilepsy). He is now working on the first population based study on sleep and non-communicable disease in Africa. He is developing algorithms to predict some chronic disease using sleep and physical activity level.

### Speaker Publications:

1. "Consommation de tabac par la chicha chez les étudiants à Cotonou en 2018: prévalence et facteurs associés"; *Revue des Maladies Respiratoires Actualites / 2020 / 12(1):138-139.*
2. "The impact of modern lifestyle on sleep: the end of a myth?"; *Sleep Medicine / 2019 / 64:S407.*
3. "Epilepsy and migraine in adolescent and adult subjects in West Africa"; *Journal of the Neurological Sciences / 2019 / 405:135.*

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