

Global Summit on **HIV-AIDS AND STDs**

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**Identification of the Human Papillomavirus Genotypes, According to the Human Immunodeficiency Virus status in a cohort of women from Maputo, Mozambique****Alice Afonso Manjate***Orebro University, Sweden*

**Introduction:** Human papillomavirus (HPV) infection is commonly the well-established cause of cervical and other anogenital cancers. There are reports of an association between HIV infection and increased incidence and prevalence of HPV. This study was carried out to determine the prevalence, genotypes and characteristics of HPV, in a cohort of sexually active women in Maputo, Mozambique.

**Methods:** A total of 233 participants with ages ranging from fourteen to forty-five years were enrolled. Endocervical samples were collected, DNA was extracted using the MagNA Pure Compact DNA system and genotyping was performed using the HPV Direct Flow CHIP kit.

**Results:** A total of 177 HIV-negative and 56 HIV-positive women were included in the analysis. The prevalence of HPV was 63% and was significantly higher among HIV-positive women (79% versus 58% among HIV-negative women;  $p = 0.005$ ). The prevalence of multiple HPV-type infections was 32%. High-risk HPV types 52, 68, 35, 18 and 16 were the most frequent. A higher proportion of HIV-positive women had multiple types of HPV compared to HIV-negative women.

**Conclusions:** This study demonstrated a high prevalence of HPV in the study cohort. HIV positive women were identified as having the highest prevalence of HPV and infected with various types of HPV at all ages, with high-risk genotypes being the most common.

**Biography**

Alice Afonso Manjate is a PhD student at Orebro University in Sweden. She completed her Masters in Cellular and Molecular Biology in 2010 in Brazil. She has been working for approximately 20 years at the Faculty of Medicine of Universidade Eduardo Mondlane where she is responsible for the Laboratory of Microbiology. She has participated in several research having 5 publications in peer review journals, national and international conferences.