

HUMAN PAPILLOMAVIRUS (HPV) INFECTIONS AMONG FEMALE SEX WORKERS IN COTE D'IVOIRE

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Human Papillomaviruses (HPV) are small virus non-enveloped double-stranded circular DNA. They infect epithelial cells. Many studies have indicated that having multiple sexual partners may lead to higher HPV transmission. Thus female sex workers (FSWs) may be at greater risk of infection. In female sex workers (FSWs), the risk of HPV infection and cervical cancer is especially high. The aim of this work is to determine the prevalence and the genotypes of HPV that circulate in female sex workers populations in Cote d'Ivoire. From Dec' 2015 to May' 2016, cervical samples from 350 female sex workers were tested for some HR-HPV. HPV DNA was amplified using PGMY09/11 primers which generated 450 base pairs at the L1 region. The samples harboring HPV DNA were genotyped using the multiplex PCR with HPV 16, 18, 31, 33, 35, 45 and 51 primers. The mean age of this population was 32.5 years. On 350 female sex workers, HPV DNA was obtained in 51.5% of the population. A total of 168 (94.38%) specimens harboring HPV DNA were genotypes using multiplex PCR versus 5.61%, which were not genotyped using HPV 16,18, 31, 33, 35, 45 and 51 by multiplex PCR. These 168 strains permit to identify 204 strains of HPV on whom 88.69% with single infection while 11.30% with a multiple infection. Among multiple infections, 36.84% had respectively double and triple HPV infection and 26.31% had four HPV infections. HPV genotypes prevalence was HPV16 (22.47%), HPV18 (26.97%), HPV35 (11.23%), HPV31 and HPV33 (7.86%) respectively and HPV45 (7.30%). Any case of HPV genotype 51 was founded. The prevalence of HPV infection in female sex workers is high. The most genotypes which circulate in female sex workers are type 16 and type 18.

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