

Prevalence of Human Papillomavirus in Squamous Intraepithelial Lesions and Cervical Cancer in Women of the North of Chihuahua, Mexico

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Abstract : Cervical Cancer (CC) is the second leading cause of death among women worldwide and it had been associated with a persistent infection of human papillomavirus (HPV). The goal of the current study was to identify the prevalence of HPV infection in women with abnormal Pap smear who were attended at Dysplasia Clinic of Ciudad Juarez, Mexico. Methods: Cervical samples from 146 patients, who attended the Colposcopy Clinic at Sanitary Jurisdiction II of Cd Juarez, were collected for histopathology and molecular study. DNA was isolated for the HPV detection by Polymerase Chain Reaction (PCR) using MY09/011 and GP5/6 primers. The associated risk factors were assessed by a questionnaire. The statistical analysis was performed by ANOVA, using EpiINFO V7 software. Results: HPV infection was present in 142 patients (97.3 %). The prevalence of HPV infection was distributed in a 96% of all evaluated groups, low-grade squamous intraepithelial lesion (LSIL), high-grade squamous intraepithelial lesion (HSIL) and CC. We found a statistical significance ($\alpha = <0.05$) between gestation and number of births as risk factors. The median values showed an ascending trend according with the lesion progression. However, CC showed a statistically significant difference with respect to the pre-carcinogenic stages. Conclusions: In these Mexican patients exists a high prevalence of HPV infection, and for that reason, we are studying the most prevalent HPV genotypes in this population.

Keywords : cervical cancer, HPV, prevalence hpv, squamous intraepithelial lesion

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