Abstracts

Introduction The genital infection by the HPV is among the most frequent sexually transmitted diseases (STD) worldwide, and it may result in lesions that can lead to the carcinogenesis of the genital tract. However, other factors may be associated with the onset or progression of the tissue malignancy process, such as the M CpV, which may present oncogenic profile in the epithelial tissue. This study aims to investigate the presence of M CpV and HPV in malignant lesions of the male and female genital tract, in order to contribute to the elucidation of the role of these viruses in the cellular malignancy process and to the epidemiological knowledge regarding the prevalence of both viruses in neoplastic lesions.

Methods This is a cross-sectional study evaluating the prevalence of HPV and M CpV infection in samples of cervical carcinoma and penile cancer. To date, we have obtained 112 samples of penile carcinoma and 31 samples of cervical carcinoma. So, we aim to detect the presence of HPV DNA by the polymerase chain reaction (PCR) technique using the generic primers MY09/MY11; to genotype HPVs by specific PCR to the E6 gene; to detect and quantify DNA of the M CpV by the Nested PCR technique and real-time PCR; to investigate the presence of truncation mutations in the major T antigen of M CpV.

Results Results are partial. To date, all the male samples were analysed. We verified the presence of HPV in 54 (48.2%) of these samples, in which the most prevalent type was the HPV16 (66%). The cervical carcinoma samples are still under analysis.

Conclusion The collection of cervical neoplasia samples is still being performed. In 2015, our research group found a case of multiple infection by HPV, M CpV and Epstein-Barr virus in a case of squamous cell carcinoma of the penis in Rio de Janeiro. This was the first report of the presence of M CpV in this type of penile lesion. Thus, we look forward to find results that contribute to the presence of M CpV in genital malignant lesions and to elucidate its role in the oncogenic pathway of malignant lesions.

P3.237 DIRECT DETECTION OF MOSAIC PENA IN CLINICAL SAMPLES CONTAINING NEISSERIA GONORRHOEAE

P3.238 SYphilIS INFECTION STATUS AND THE ASSOCIATED FACTORS AMONG PARTNERS OF SYphilIS-INFECTED PREGNANT WOMEN IN SHENZHEN, CHina

Introduction The goal of this study is to investigate syphilis infection status among partners of syphilis-infected pregnant women, and to analyse the associated factors from the perspective of both pregnant women and their partners.

Methods This study was based on Shenzhen Program for Prevention of Mother-to-Child Transmission of Syphilis. Follow-up survey and contact tracing were conducted among syphilis-infected pregnant women diagnosed from 2008 to 2015. Both toludine red unheated serum test (TRUST) and treponema pallidum particle agglutination (TPPA) were applied to partners attending antenatal care clinics. Structural questionnaire was used to collect information. Binary logistic regression model was applied to analyse the factors associated with partners' syphilis infection.

Results During the studied years, 6318 pregnant women were identified with syphilis infection and 3531 partners of these women visited the antenatal care clinics and took the serological testing. From the laboratory record and clinical examination results, 1148 partners were diagnosed with syphilis infection. The infection rate decreased from 26.23% in 2008 to 15.07% in 2015. The partners were more likely to have syphilis infection when pregnant women with TRUST titers ≥ 1 or at the early syphilis stage. The partners had more risk of syphilis infection when they had multiple sex partners.

Conclusion Syphilis infection rate among partners of syphilis-infected pregnant women is high. Pregnant women’s levels of TRUST titer and disease stage as well as partners’ sexual behaviours were important factors associated with partners’ syphilis infection. Partner notification and contact tracing is an important way to identify syphilis patients.