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Lymphoepithelioma-like carcinoma of the uterine cervix-association with Epstein-Barr virus and human papillomavirus

Angel Danchev Yordanov¹, Dimitrova B I¹, Betova T M¹, Karcheva M D² and Trifonov R G²

¹UMHAT "Doctor Georgi Stranski"-Pleven, Bulgaria

²Medical University Pleven, Bulgaria

Introduction: Lymphoepithelioma-like carcinoma (LELC) of the uterine cervix is a rare variant of squamous cell carcinoma (SSC). It differs from the usual SSC of the cervix in its morphology and clinical behavior and shows a better prognosis than the more common SSC of the cervix. It is associated with EBV infection in Asian women and with HPV or no infection in Caucasian patients.

Aim: Our aim is to confirm whether or not LELC is more common in Caucasian patients with EBV/HPV infection or whether there is no correlation to the previous viral exposure. We try to link the viral status with the survival rate and the prognosis.

Materials & Methods: A retrospective research has been done on 775 female patients for a period of 8 years, who have been operated for cervical cancer in the Oncogynecological Department of UMHAT "Doctor Georgi Stranski"-Pleven. A group of 16 women with LELC have been identified by clinical data. Morphologically the patients have been examined routine-histologically and immunohistochemically, for assessment of the viral status, with monoclonal antibodies against EBV/HPV by DAKO protocol.

Results: Three of the women have been proven to have EBV and one-HPV infection. In the other cases no viral infections have been identified.

Conclusion: Our results show a stronger correlation between LELC in Caucasian women and a previous EBV infection or no viral infection, rather than association with HPV infection. This data is very different from the previous research that has been done on this topic.

Biography

Yordanov A D has completed his graduation from Medical University-Sofia in 2003. In 2009, he became a Specialist in Obstetrics in Gynecology. Since then he has been working in Oncogynecology Department-UMHAT "Doctor Georgi Stranski"-Pleven. He also works as an Assistant in Medical University-Pleven. His interests are in the field of Operative Oncogynecology. He has several publications in various magazines.

angel.jordanov@gmail.com

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