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## Human papilloma viruses infections in different studies groups from North-East Romania

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Since 2009 in the Virology Laboratory of Microbiology discipline we run Human Papilloma Viruses (HPV) genotyping tests by Linear Array HPV Genotyping test. In the first step we obtained WHO proficiency for our laboratory, after best results that we obtained for a panel with HPV samples. In a country in which the prevalence of cancer is in the first place in Europe (23.9/100.000) we tested more than 500 woman for HPV genotype and our results show that 192/514 (37.4%) patients were positive for HPV (infected with single and with multiple HPV types). Most frequent types were: 16 (10.5%), 53 (5.44%), 51 (5.05%), 52 (4.08%) 18 (2.91%) and 31 (2.73%). In another study we test HPV and HIV co-infection: DNA/HPV was detected in 18/40 (45%) of the HIV positive patients and in 350/992 (35.2%) of the HIV negative patients. We detect HIV being a risk factor for acquiring multiple HPV type infections. The eight most common HPV types for women below age 30, HIV +/- were: HPV 16, 18, 31, 51, 58, 68, 6 and 82 respectively. In the last years we were focused to test HPV infection related with different neck and head cancers; till date, we even tested more than 200 samples; we do not find a significant association between HPV and these types of cancers. An interesting case was related with squamous cell carcinoma of conjunctiva, in which we find that 52 HPV type was involved.

### Biography

Luminita Smaranda Iancu has completed her PhD from UMP Gr. T. Popa Iasi University of Medicine and Pharmacy, Romania and Postdoctoral studies from Royal Free Hospital, London, University Hospital Groningen, Netherland and Biological Molecular Laboratory Innere Medizin II, Universt-Sklinikum Freiburg, Deutschland. She is the Head of Regional Center of Public Health Iasi and of Microbiology Discipline from Faculty of Medicine and Vice Rector of UMF "Gr. T. Popa" Iasi. She has published more than 50 papers, 11 of them in reputed journals.

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