

ABSTRACT

Cervical cancer is the second most frequent cancerous disease presented in the statistical analysis of women in the world as well as in the Czech Republic and its incidence increases also in younger age groups. This serious disease is among other etiological factors induced by virus infection of human papillomavirus from the group of HPV.

The presented thesis deals with current knowledge about the origin and progress of the cervical cancer, its prevention, diagnosis and effective treatment options.

The practical part describes the diagnostic method which is gradually recommended to specify the diagnosis of the disease – the INNO-LIPA method which is based on reverse hybridization and used to determine the type of HPV. The thesis also includes the test results of the group of patients from clinical material of workplace Department of Molecular Genetics Laboratory CGB a.s. Ostrava that were diagnosed by the method.