

Cancer of the cervix is the third most common gynecological cancer

diseases in the Czech Republic and is the second leading cause of death from malignant consequences

disease in women aged 15-44 years in Europe. The Czech Republic is cervical cancer throat diagnosed each year with approximately a thousand women, with almost 400 women in this disease die .

The pathogenesis of this cancer is multifactorial , the essential role plays a persistent infection risk types of human papilloma virus, HPV , which is proven at about 3-5 % of women aged 35-40 years. Due to the frequent occurrence of this tumor disease for many years introduced secondary preventive screening, aimed at the detection of precancerous and early invasive breast forms , which are very good therapeutic influenced .

Substantial progress in recent years is the possibility of primary prevention of these diseases using HPV vaccine viruses. Both vaccines available on the market are targeted against the two major types of HPV - types 16 and 18 are responsible for approximately 70 % of high grade cervical dysplasia and carcinoma in situ. The efficacy of these vaccines was observed in a number of randomized , placebo-controlled trials in which the demonstrated excellent immunogenicity leading to seroconversion in virtually all vaccinated people. Above all , however, was vaccinated persons shown to reduce the incidence of severe precancerous

cervix. Reducing the incidence of cervical lesions was most evident in the group of patients that before or during vaccination come into contact with pathogenic HPV viruses against which the vaccine is directed .

Based on clinical data of the distribution of these vaccines launched in a number countries, including the Czech Republic. There is no doubt that the possibility of individual protection is an important step in

Prevention of cervical cancer . In terms of the general population , however, the effect to decrease incidence of cervical cancer vaccination can result in a surface , ie the inclusion prophylactic HPV vaccination in national vaccination programs , probably

targeted population of girls from koitarche .