

Slovakia

Human Papillomavirus and Related Cancers, Fact Sheet 2021 (2021-10-22)



I. Key data on HPV and HPV-related cancers



Slovakia has a population of 2.39 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 698 women are diagnosed with cervical cancer and 284 die from the disease.

Cervical cancer ranks as the 5th most frequent cancer among women in Slovakia and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Slovakia. However, in Eastern Europe, the region Slovakia belongs to, about 9.7% of women in the general population are estimated to harbour cervical HPV-16/18 infection at a given time, and 84.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Crude incidence rates of HPV-related cancers

	Male	Female
Cervical cancer	-	24.9
Anal cancer	0.98	1.00
Vulva cancer	-	3.64
Vaginal cancer	-	0.86
Penile cancer	1.84	-
Oropharyngeal cancer	10.3	1.29
Oral cavity cancer	17.5	4.03
Laryngeal cancer	14.2	0.79

Table 2. Burden of cervical cancer

	Incidence	Mortality
Annual number of new cases/deaths	698	284
Crude rate	24.9	10.1
Age-standardized rate	16.6	5.35
Cumulative risk 0-74 years (%)	1.66	0.59
Ranking of cervical cancer (all years)	5th	7th
Ranking of cervical cancer (15-44 years)	2nd	2nd

Table 3. Burden of cervical HPV infection Slovakia

	No. Tested	% (95% CI)
HPV 16/18 prevalence:		
Normal cytology	-	-
Low-grade cervical lesions	-	-
High-grade cervical lesions	-	-
Cervical cancer	-	-

Figure 1. Comparison of the ten most frequent HPV oncogenic types in Slovakia among women with and without cervical lesions



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II. Complementary data on cervical cancer prevention

Table 4. Factors contributing to cervical cancer (co-factors)

Smoking prevalence (%) [95% UI], women	21 [13.6-30.1]
Total fertility rate (live births per women)	1.5
Hormonal contraception use (%)	22.3
HIV prevalence (%) [95% UI] (15-49 years)	<0.1 [<0.1 - <0.1]

Table 5. Sexual behaviour

MEN	
Percentage of 15-year-old who have had sexual intercourse	18.0
Range of median age at first sexual intercourse	-
WOMEN	
Percentage of 15-year-old who have had sexual intercourse	14.0
Range of median age at first sexual intercourse	-

Table 6. HPV vaccine introduction in females

HPV vaccination programme	Not Available, Not Introduced/No Plans
Year of introduction	-
HPV coverage – first dose (%) (estimation year 2019)	-
HPV coverage – last dose (%) (estimation year 2019)	-
HPV coverage – first dose (%) (estimation year 2020)	-
HPV coverage – last dose (%) (estimation year 2020)	-

Table 7. Cervical screening practices and recommendations

Cervical cancer screening coverage, % (age and screening interval, reference)	48.0% (All women aged ≥ 19 screened every 1y, EUROSTAT Slovakia)
Screening ages (years)	23-64
Screening interval (years) or frequency of screens	3 years

Figure 2. Estimated coverage of cervical cancer screening in Slovakia, by age and study



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