

Czechia

Human Papillomavirus and Related Cancers, Fact Sheet 2023 (2023-03-10)



I. Key data on HPV and HPV-related cancers



Czechia has a population of 4.51 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 769 women are diagnosed with cervical cancer and 398 die from the disease.

Cervical cancer ranks as the 11th most frequent cancer among women in Czechia and the 3rd most frequent cancer among women between 15 and 44 years of age. About 6.6% of women in the general population are estimated to harbour cervical HPV-16/18 infection at a given time, and 79.3% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Crude incidence rates of HPV-related cancers

	Male	Female
Cervical cancer	-	14.1
Anal cancer	1.44	2.02
Vulva cancer	-	5.08
Vaginal cancer	-	0.90
Penile cancer	2.37	-
Oropharyngeal cancer	7.17	2.69
Oral cavity cancer	10.8	5.87
Laryngeal cancer	8.12	1.32

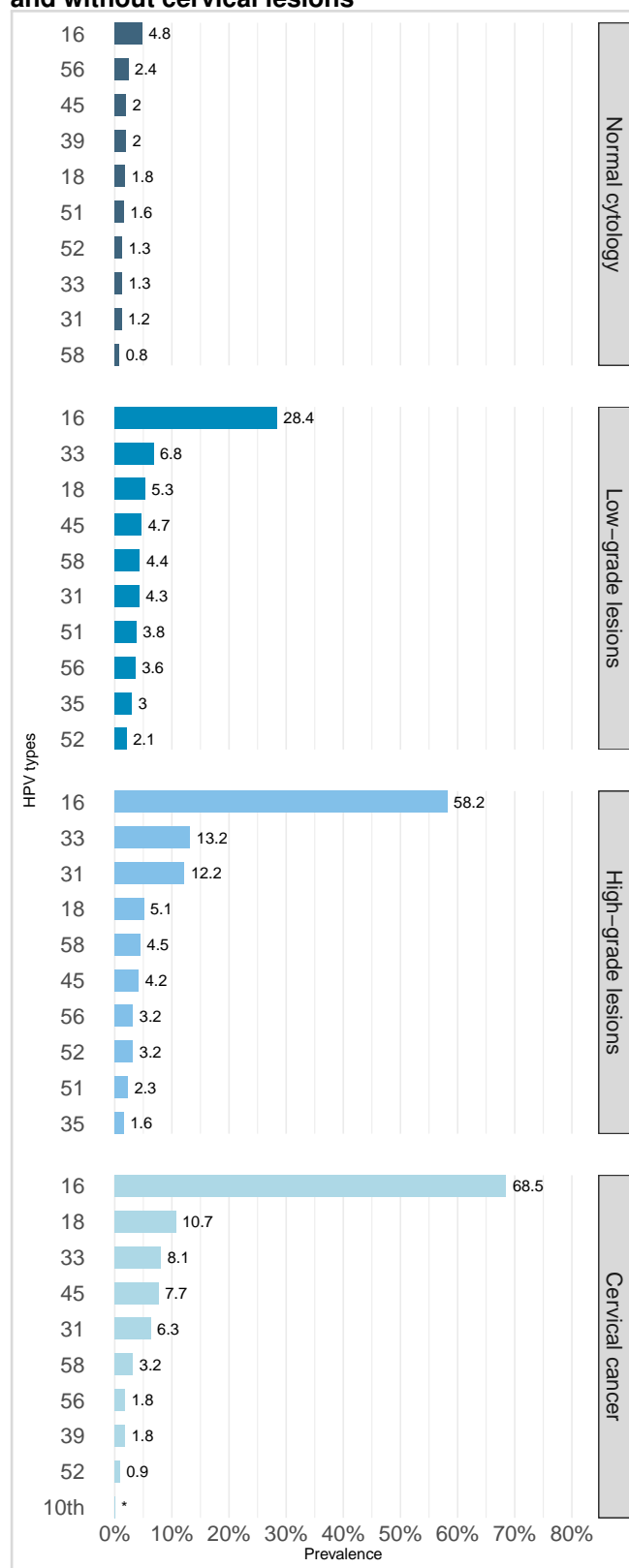
Table 2. Burden of cervical cancer

	Incidence	Mortality
Annual number of new cases/deaths	769	398
Crude rate	14.1	7.32
Age-standardized rate	9.32	3.56
Cumulative risk 0-74 years (%)	0.91	0.39
Ranking of cervical cancer (all years)	11th	8th
Ranking of cervical cancer (15-44 years)	3rd	3rd

Table 3. Burden of cervical HPV infection Czechia

	No. Tested	% (95% CI)
HPV 16/18 prevalence:		
Normal cytology	1302	6.6 (5.4-8.1)
Low-grade cervical lesions	676	33.7 (30.3-37.4)
High-grade cervical lesions	311	63.3 (57.9-68.5)
Cervical cancer	270	79.3 (74.0-83.7)

Figure 1. Comparison of the ten most frequent HPV oncogenic types in Czechia 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	27 [20.5-33]
Total fertility rate (live births per women)	1.6
Hormonal contraception use (%)	54.4
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	23.0
Range of median age at first sexual intercourse	17.0
WOMEN	
Percentage of 15-year-old who have had sexual intercourse	24.0
Range of median age at first sexual intercourse	17.0 - 17.5

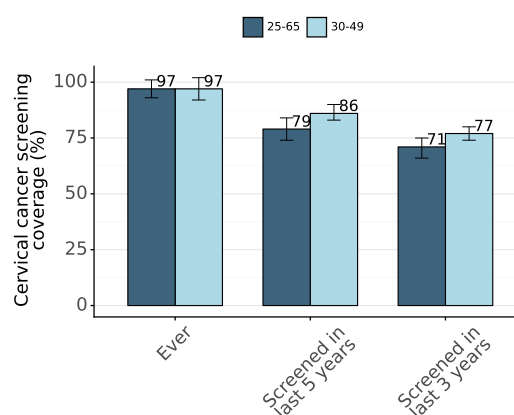
Table 6. HPV vaccine introduction

Females	
HPV vaccination programme	Introduced
Year of introduction	2012
Year of estimation	2021
HPV coverage – first dose (%)	-
HPV coverage – last dose (%)	-
Males	
HPV vaccination programme	Introduced
Year of introduction	2018
Year of estimation	2021
HPV coverage – first dose (%)	-
HPV coverage – last dose (%)	-

Table 7. Cervical screening practices and recommendations

Existence of official national recommendations	Yes
Starting year of recommendations	2014
Active invitation to screening	Yes
Screening ages (years), primary screening test used, and screening interval or frequency of screenings	25-60 (cytology, 1 year)

Figure 2. Estimated coverage of cervical cancer screening in Czechia*



* Estimated coverage and 95% confidence interval in 2019

Contact information:

ICO/IARC HPV Information Centre
 Institut Català d'Oncologia
 Avda. Gran Via de l'Hospitalet, 199-203
 08908 L'Hospitalet de Llobregat (Barcelona, Spain)
info@hpvcentre.net
www.hpvcentre.net