

Germany

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

I. Key data on HPV and HPV-related cancers



Germany has a population of 36.7 millions women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 4666 women are diagnosed with cervical cancer and 2075 die from the disease.

Cervical cancer ranks as the 14th most frequent cancer among women in Germany and the 3rd most frequent cancer among women between 15 and 44 years of age. About 3.2% of women in the general population are estimated to harbour cervical HPV-16/18 infection at a given time, and 76.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Crude incidence rates of HPV-related cancers

	Male	Female
Cervical cancer	-	11.0
Anal cancer	2.29	3.83
Vulva cancer	-	9.16
Vaginal cancer	-	1.26
Penile cancer	2.53	-
Oropharyngeal cancer	5.48	2.77
Oral cavity cancer	10.8	6.74
Laryngeal cancer	6.71	1.61

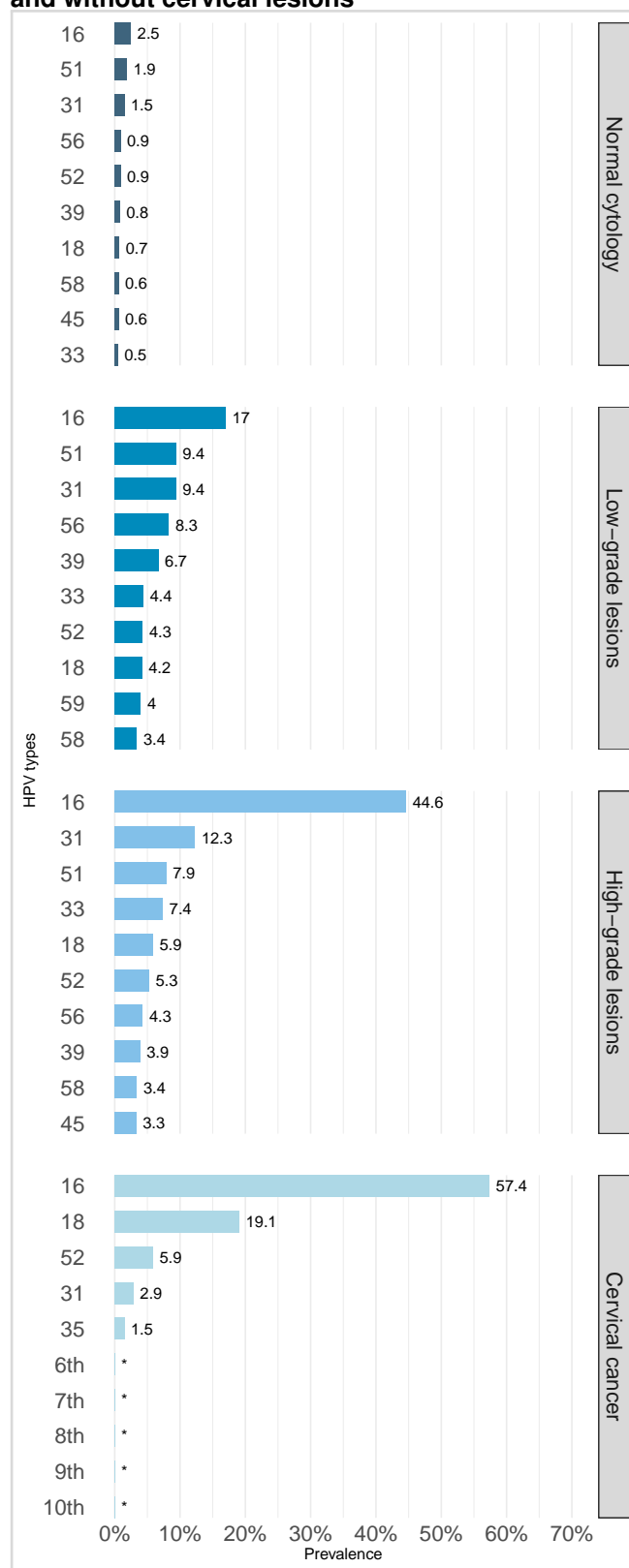
Table 2. Burden of cervical cancer

	Incidence	Mortality
Annual number of new cases/deaths	4666	2075
Crude rate	11.0	4.90
Age-standardized rate	7.63	2.20
Cumulative risk 0-74 years (%)	0.73	0.24
Ranking of cervical cancer (all years)	14th	15th
Ranking of cervical cancer (15-44 years)	3rd	3rd

Table 3. Burden of cervical HPV infection Germany

	No. Tested	% (95% CI)
HPV 16/18 prevalence:		
Normal cytology	10988	3.2 (2.9-3.5)
Low-grade cervical lesions	688	21.2 (18.3-24.4)
High-grade cervical lesions	819	50.5 (47.1-54.0)
Cervical cancer	68	76.5 (65.1-85.0)

Figure 1. Comparison of the ten most frequent HPV oncogenic types in Germany 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	23.4 [19.2-27.5]
Total fertility rate (live births per women)	1.5
Hormonal contraception use (%)	42.3
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	22.0
Range of median age at first sexual intercourse	17.7 - 20.2
WOMEN	
Percentage of 15-year-old who have had sexual intercourse	19.0
Range of median age at first sexual intercourse	15.2 - 20.9

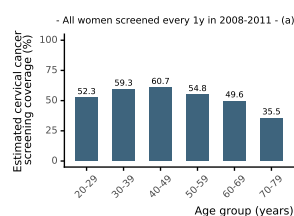
Table 6. HPV vaccine introduction in females

HPV vaccination programme	Introduced
Year of introduction	2007
HPV coverage – first dose (%) (estimation year 2019)	58
HPV coverage – last dose (%) (estimation year 2019)	43
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)	52.8% (All women aged 20-69 screened every 3y, EUROSTAT Germany)
Screening ages (years)	Above 20
Screening interval (years) or frequency of screens	1 year

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



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