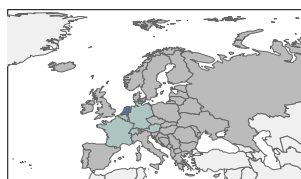


# Netherlands

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

### I. Key data on HPV and HPV-related cancers



Netherlands has a population of 7.26 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 773 women are diagnosed with cervical cancer and 253 die from the disease.

Cervical cancer ranks as the 12th most frequent cancer among women in Netherlands and the 3rd most frequent cancer among women between 15 and 44 years of age. About 1.5% of women in the general population are estimated to harbour cervical HPV-16/18 infection at a given time, and 82.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

**Table 1. Crude incidence rates of HPV-related cancers**

	Male	Female
Cervical cancer	-	8.99
Anal cancer	1.50	1.80
Vulva cancer	-	6.57
Vaginal cancer	-	0.81
Penile cancer	2.25	-
Oropharyngeal cancer	3.44	1.69
Oral cavity cancer	10.4	7.83
Laryngeal cancer	6.81	1.83

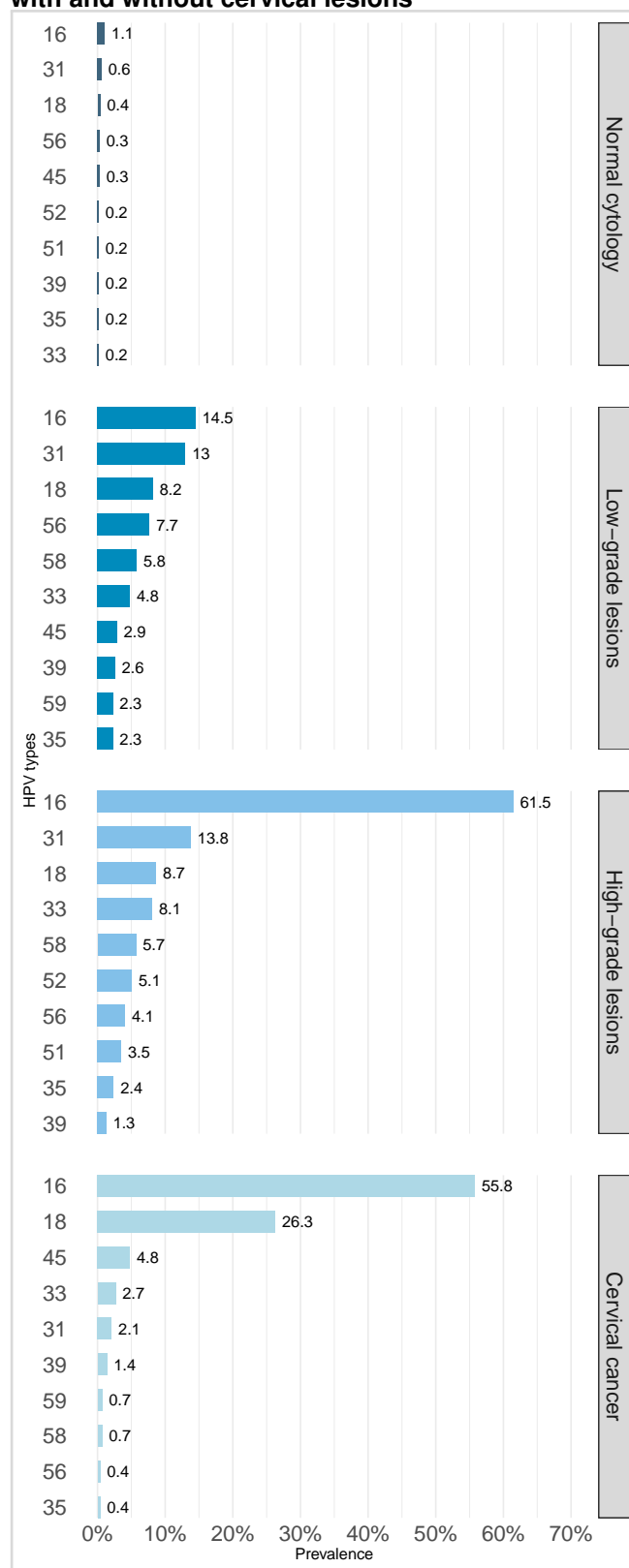
**Table 2. Burden of cervical cancer**

	Incidence	Mortality
Annual number of new cases/deaths	773	253
Crude rate	8.99	2.94
Age-standardized rate	6.88	1.42
Cumulative risk 0-74 years (%)	0.63	0.15
Ranking of cervical cancer (all years)	12th	17th
Ranking of cervical cancer (15-44 years)	3rd	5th

**Table 3. Burden of cervical HPV infection Netherlands**

	No. Tested	% (95% CI)
HPV 16/18 prevalence:		
Normal cytology	26908	1.5 (1.4-1.7)
Low-grade cervical lesions	207	22.7 (17.5-28.9)
High-grade cervical lesions	855	70.2 (67.0-73.1)
Cervical cancer	1157	82.1 (79.8-84.2)

**Figure 1. Comparison of the ten most frequent HPV oncogenic types in the Netherlands 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	22.9 [18.6-27.5]
Total fertility rate (live births per women)	1.7
Hormonal contraception use (%)	49
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	15.0
Range of median age at first sexual intercourse	16.0 - 21.2
WOMEN	
Percentage of 15-year-old who have had sexual intercourse	16.0
Range of median age at first sexual intercourse	16.0 - 21.6

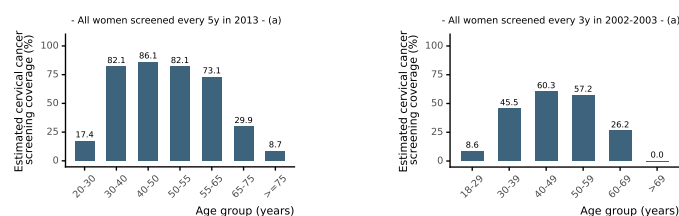
**Table 6. HPV vaccine introduction in females**

HPV vaccination programme	Introduced
Year of introduction	2010
HPV coverage – first dose (%) (estimation year 2019)	63
HPV coverage – last dose (%) (estimation year 2019)	53
HPV coverage – first dose (%) (estimation year 2020)	63
HPV coverage – last dose (%) (estimation year 2020)	63

**Table 7. Cervical screening practices and recommendations**

Cervical cancer screening coverage, % (age and screening interval, reference)	57.7% (All women aged $\geq 20$ screened every 5y, NHS 2010-2013 Netherlands)
Screening ages (years)	30-60
Screening interval (years) or frequency of screens	5 years

**Figure 2. Estimated coverage of cervical cancer screening in the Netherlands, by age and study**



<sup>a</sup> Proportion of women in the total sample of the mentioned age range in the country or region that reported having a Pap smear during a given time period (e.g., last year, last 2, 3, 5 years or ever).

#### Contact information:

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