

# Retrospective cohort study evaluating effectiveness of GARDASIL™ against adult-onset recurrent respiratory papillomatosis in Norway

**First published:** 20/01/2023

**Last updated:** 07/04/2025

Study

Cancelled

## Administrative details

### EU PAS number

EUPAS50387

### Study ID

50697

### DARWIN EU® study

No

### Study countries

☐ Norway

## Study description

Study cancelled - It has been combined with study V503-088 (EUPAS48452). Recurrent respiratory papillomatosis (RRP) is a rare disease caused by human papillomavirus (HPV) infection in the airways, marked by recurrent papillomatous lesions in the respiratory tract. HPV types 6 and 11 account for over 90% of RRP cases. GARDASIL/GARDASIL 9 vaccines protect against HPV types 6, 11, 16 and 18, and were administered to 12 year old girls from 2009-2016 as part of the childhood vaccination program in Norway. The primary objective of the study is to use a population-based retrospective cohort study to assess whether vaccination with GARDASIL/GARDASIL 9 before 17 years of age reduces the risk of adult-onset RRP. The secondary objectives of the study are to use nationwide registry data to assess annual incidence rates of adult onset RRP and juvenile-onset RRP among males and females in Norway since 2008.

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## Study status

Cancelled

## Research institutions and networks

### Institutions

**Merck Sharp & Dohme LLC**

☐ United States

**First published:** 01/02/2024

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**Institution**

**Pharmaceutical company**

## Contact details

### Study institution contact

Clinical Trials Disclosure Merck Sharp & Dohme LLC

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Study contact

[ClinicalTrialsDisclosure@merck.com](mailto:ClinicalTrialsDisclosure@merck.com)

### Primary lead investigator

Clinical Trials Disclosure Merck Sharp & Dohme LLC

Primary lead investigator

## Study timelines

### Date when funding contract was signed

Actual: 23/11/2021

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### Study start date

Planned: 28/02/2023

Actual: 26/01/2023

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### Data analysis start date

Planned: 29/11/2024

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### Date of final study report

Planned: 31/03/2025

## Sources of funding

- Pharmaceutical company and other private sector

## More details on funding

Merck Sharp & Dohme LLC

## Study protocol

[V503-090-00-v1-Protocol\\_final redaction.pdf](#)(333.09 KB)

## Regulatory

**Was the study required by a regulatory body?**

No

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**Is the study required by a Risk Management Plan (RMP)?**

Not applicable

## Methodological aspects

### Study type

### Study type list

**Study type:**

Non-interventional study

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**Scope of the study:**

Assessment of risk minimisation measure implementation or effectiveness

Disease epidemiology

**Main study objective:**

The primary objective is to assess whether vaccination with GARDASIL/GARDASIL 9 before 17 years of age reduces the risk of adult-onset RRP.

## Study Design

**Non-interventional study design**

Cohort

## Study drug and medical condition

**Name of medicine**

GARDASIL

GARDASIL 9

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**Name of medicine, other**

- human papillomavirus vaccine [types 6, 11, 16, 18] (recombinant, adsorbed)
  - human papillomavirus 9-valent vaccine (recombinant, adsorbed)
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**Anatomical Therapeutic Chemical (ATC) code**

(J07BM01) papillomavirus (human types 6, 11, 16, 18)

papillomavirus (human types 6, 11, 16, 18)

(J07BM03) papillomavirus (human types 6, 11, 16, 18, 31, 33, 45, 52, 58)

papillomavirus (human types 6, 11, 16, 18, 31, 33, 45, 52, 58)

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## **Medical condition to be studied**

Respiratory papilloma

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## **Additional medical condition(s)**

Adult-onset recurrent respiratory papillomatosis, Juvenile-onset Recurrent respiratory papillomatosis

## Population studied

### **Age groups**

Term newborn infants (0 – 27 days)

Infants and toddlers (28 days – 23 months)

Children (2 to < 12 years)

Adolescents (12 to < 18 years)

Adults (18 to < 46 years)

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## **Estimated number of subjects**

3000000

## Study design details

### **Outcomes**

Incidence of adult-onset RRP among females measured using ICD-10 code D14.1, 1) Incidence of adult-onset RRP among males and females measured using ICD-10 code D14.1 2) Incidence of juvenile-onset RRP among males and females measured using ICD-10 code D14.1.

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### **Data analysis plan**

The data will be analyzed for the primary objective using a Cox Proportional Hazards Model for the risk of first adult-onset RRP incidence, using age as

running time. For the secondary objectives, age-standardized incidence rates of juvenile-onset RRP and adult-onset RRP will be calculated stratified by age group and calendar period.

## Data management

### ENCePP Seal

The use of the ENCePP Seal has been discontinued since February 2025. The ENCePP Seal fields are retained in the display mode for transparency but are no longer maintained.

### Data sources

#### Data source(s)

Norwegian Health Registers

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#### Data source(s), other

Norwegian Patient Registry, Norway

Norwegian Immunisation Registry, Norway

Norwegian Prescription Database, Norway

Statistics Norway, Norway

Norwegian Population Registry, Norway

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#### Data sources (types)

[Administrative healthcare records \(e.g., claims\)](#)

[Disease registry](#)

**Data sources (types), other**

Exposure registry

## Use of a Common Data Model (CDM)

**CDM mapping**

No

## Data quality specifications

**Check conformance**

Unknown

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**Check completeness**

Unknown

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**Check stability**

Unknown

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**Check logical consistency**

Unknown

## Data characterisation

**Data characterisation conducted**

No