

# Effectiveness and impact of a 2-component acellular pertussis vaccine as a preschool booster in Finland – A register-based study (PER000108)

**First published:** 19/06/2024

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Study

Ongoing

## Administrative details

### EU PAS number

EUPAS1000000107

### Study ID

1000000107

### DARWIN EU® study

No

### Study countries

Finland

### Study description

This is a nationwide population-based register study on pertussis in children less than 14 years of age in 1995-2019. We will estimate the effectiveness of preschool pertussis vaccination in a cohort design, by previous vaccination status and by time since vaccination, and assess its impact by comparing vaccination programs with and without preschool vaccination. In addition, we will assess the patterns of pertussis by age, time, area, vaccination status and hospitalization.

## Study status

Ongoing

## Research institutions and networks

### Institutions

#### FVR – Finnish Vaccine Research

Finland

**First published:** 21/03/2024

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**Institution**

**Hospital/Clinic/Other health care facility**

**Laboratory/Research/Testing facility**

## Contact details

### Study institution contact

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## Study contact

[ritva.syrjanen@fvr.fi](mailto:ritva.syrjanen@fvr.fi)

## Primary lead investigator

Arto Palmu

## Primary lead investigator

## Study timelines

### Date when funding contract was signed

Actual: 26/04/2023

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### Study start date

Actual: 03/07/2023

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### Data analysis start date

Planned: 30/06/2024

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### Date of final study report

Planned: 30/06/2025

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## Sources of funding

- Pharmaceutical company and other private sector

## More details on funding

Sanofi Pasteur S.A.

## 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 topic:**

Disease /health condition

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**Study type:**

Non-interventional study

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**Scope of the study:**

Disease epidemiology

Effectiveness study (incl. comparative)

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**Data collection methods:**

Secondary use of data

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**Study design:**

Cohort study for estimating effectiveness, before-after comparison to compare different vaccination programs, descriptive epidemiology

## **Main study objective:**

To evaluate the direct effectiveness of a 2-component acellular pertussis (2aP) vaccine administered as a preschool booster at 4 years of age against laboratory-confirmed pertussis during a follow-up of 5 years.

## Study Design

### **Non-interventional study design**

Cohort

Other

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### **Non-interventional study design, other**

Before-after comparison

## Study drug and medical condition

### **Medicinal product name, other**

Pertussis vaccine

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### **Medical condition to be studied**

Pertussis

Pertussis immunisation

## Population studied

### **Short description of the study population**

Children less than 14 years of age in Finland 1995-2019, based on nationwide registers and population data

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### **Estimated number of subjects**

2500000

## 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), other**

Finnish nationwide registers

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### **Data sources (types)**

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

[Disease registry](#)

[Drug registry](#)

[Population 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

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# Data characterisation

## **Data characterisation conducted**

Unknown