Cohort Event Monitoring of safety of COVID-19 vaccines in special populations (pregnant and lactating women, children and adolescents, immunocompromised, people with history of allergy, people with prior SARS-CoV-2 infection) (Covid-Vaccine-Monitor CVM)

First published: 23/08/2021 Last updated: 23/04/2024





### Administrative details

### Contact details

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Primary lead investigator

<u>Gianluca Trifirò</u>

**Primary lead investigator** 

#### **PURI**

https://redirect.ema.europa.eu/resource/47756

EU PAS number

EUPAS42504

#### **DARWIN EU® study**

No

#### **Study countries**

Ireland

Italy

Netherlands

Portugal

Romania

Slovakia

Spain

Switzerland

#### Study description

Primary aim: To generate and compare incidence rates of patient-reported adverse reactions of different COVID-19 vaccines in pregnant and lactating women, children and adolescents, immunocompromised, people with history of allergy and people with prior SARS-CoV-2 infection.

Secondary aim: Within each special cohort of vaccinees to identify potential predictors of the most frequently reported adverse reactions related to different COVID-19 vaccines. The study is a prospective cohort study in special populations (pregnant and lactating women, children and adolescents, immunocompromised, people with history of allergy and people with prior SARS-CoV-2 infection). In different countries, on the national level, data will be prospectively collected, directly from a cohort of vaccine recipients. The common core data from different countries will be pooled, stratified by special cohort and analysed at the European level. The?study?is set up as a cohort monitoring for?a?duration of up until 6 months from the first dose vaccination date (except for pregnant women who will be followed up until 1.5 month after the pregnancy end).? Vaccine recipients should be asked to fill in questionnaires at baseline, and 1 and 3 weeks after the first dose (and eventually the second dose), and 3 and 6 months after first dose vaccination. As regards pregnant women a specific "End of Pregnancy" questionnaire will be additionally sent within 1.5 months from the estimated delivery to collect information on outcomes related to pregnancy and new-born. Safety data can be directly reported by vaccine recipients in their local language using the Lareb Intensive Monitoring (LIM) web app or the ResearchOnline web app. Collected data can be stored in dedicated central databases. For each special cohort, adverse reaction incidence rates will be reported overall and stratified and compared across different vaccine brands, gender, age groups, and countries.

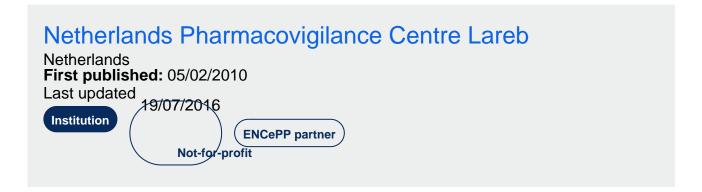
#### Study status

Finalised

### Research institution and networks

### Institutions

### Unit of Clinical Psychopharmacology and Drug Epidemiology, University of Verona First published: 17/07/2012 Last updated 03/07/2014 Institution Hospital/Clinic/Other health care facility **Educational Institution ENCePP** partner





# Pharmacology Unit - Veneto Pharmacovigilance Centre (Pharmacol UNIVR), University Hospital Verona

First published: 25/10/2022

Last updated 26/10/2022

- CLPP Vaccines Network, Portugal
- University of Medicine and Pharmacy 'Iuliu Hatieganu' Cluj-Napoca, Romania
- Medical faculty of Pavol Jozef Safarik University SLOVACRIN), Slovakia
- University of Verona, Italy
- University of Bern, Switzerland
- Rotunda Hospital Dublin, Ireland
- ilmiovaccinoCOVID19 collaborating group, Italy

### **Networks**

# EU Pharmacoepidemiology and Pharmacovigilance (PE&PV) Research Network

Netherlands

First published: 01/02/2024

Last updated 12/03/2024

Network

### Study timelines

Date when funding contract was signed

Planned: 06/04/2021 Actual: 06/04/2021

#### **Data collection**

Planned:

07/07/2021 Actual: 07/07/2021

#### Start date of data analysis

Actual: 30/09/2021

#### Date of interim report, if expected

Planned: 06/04/2022 Actual: 08/04/2022

#### Date of final study report

Planned: 06/04/2023 Actual: 08/05/2023

# Sources of funding

EMA

# Study protocol

CVM\_WP1\_Protocol\_v2.0\_20210714\_final.pdf(793.44 KB)

CVM\_WP1\_Protocol\_v2.1\_20210729.pdf(1.42 MB)

### Regulatory

Was the study required by a regulatory body?

Yes

Is the study required by a Risk Management Plan (RMP)? Not applicable

# Methodological aspects

Study type list

#### Study topic:

Disease /health condition Human medicinal product

#### Study type:

Non-interventional study

#### Scope of the study:

Assessment of risk minimisation measure implementation or effectiveness

#### Data collection methods:

Secondary data collection

#### Study design:

Prospective cohort study in special populations (pregnant and lactating women, children and adolescents, immunocompromised, people with history of allergy and people with prior SARS-CoV-2 infection).

#### Main study objective:

To generate and compare incidence rates of patient-reported adverse reactions of different COVID-19 vaccines across the participating countries in pregnant and lactating women, children and adolescents, immunocompromised, people with history of allergy and people with prior SARS-CoV-2 infection.

# Study Design

#### Non-interventional study design

Cohort

Other

#### Non-interventional study design, other

Prospective study

# Study drug and medical condition

#### **Anatomical Therapeutic Chemical (ATC) code**

100000096568

combinations

#### Medical condition to be studied

Pregnancy

COVID-19

# Population studied

#### Short description of the study population

The study population comprised of pregnant and lactating women, children and adolescents, immunocompromised, people with history of allergy and people with prior SARS-CoV-2 infection who received COVID-19 vaccines for period of February 2021 to August 2022.

#### Age groups

Preterm newborn infants (0 - 27 days)

Term newborn infants (0 – 27 days)

Infants and toddlers (28 days – 23 months)

Children (2 to < 12 years)

Adolescents (12 to < 18 years)

Adult and elderly population (>18 years)

Adults (18 to < 65 years)

Adults (18 to < 46 years)

Adults (46 to < 65 years)

Elderly (? 65 years)

Adults (65 to < 75 years)

Adults (75 to < 85 years)

Adults (85 years and over)

#### Special population of interest

Hepatic impaired

**Immunocompromised** 

Pregnant women

Renal impaired

### **Estimated number of subjects**

60000

# Study design details

#### Data analysis plan

Risk estimation: for each special cohort, a dedicated cumulative structured overview of numbers and incidence of all adverse reactions per vaccine will be provided, overall, and also stratified by vaccine brand, country, gender, and age group. For each adverse reaction, cumulative incidence with its 95% confidence interval (CI) will be reported by COVID-19 vaccine brand and dose.

### **Documents**

#### **Results tables**

EUPAS42504-105818.pdf(567.7 KB)

#### Study publications

Ahmadizar F, Luxi N, Raethke M, Schmikli S, Riefolo F, Saraswati PW, Bucsa C, O... Luxi, N, Raethke, M, Ruijs, L, Schmikli, S, Riefolo, F, Trifiro, G, & Sturkenbo... Luxi Nicoletta, Riefolo Fabio, Raethke Monika, van Hunsel Florence, Sturkenboom... Francesco Ciccimarra et al. (2024). Safety Monitoring of COVID-19 Vaccines in P...

### Data management

### Data sources

#### Data source(s), other

Safety data can be directly reported by vaccine recipients in their local language using the Lareb Intensive Monitoring (LIM) web app or the ResearchOnline web app, which have been both built specifically for patient-reported outcomes using exactly the same structure. As regards pregnancy monitoring, only ResearchOnline will be used as collecting additionally information on pregnancy. Collected data from European countries using LIM/ResearchOnline web app can be stored in dedicated central databases.

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

Administrative data (e.g. claims) Electronic healthcare records (EHR)

### Use of a Common Data Model (CDM)

### **CDM** mapping

No

### Data quality specifications

#### Check conformance

Unknown

#### **Check completeness**

Unknown

# **Check stability** Unknown

Check logical consistency Unknown

# Data characterisation

**Data characterisation conducted** No