

Clinical course, outcomes and risk factors of myocarditis and pericarditis following administration of Moderna vaccines targeting SARS-CoV-2.

First published: 23/05/2023

Last updated: 23/04/2024

Study

Ongoing

Administrative details

Contact details

Study institution contact

David Ong

Study contact

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Primary lead investigator

Ong David

Primary lead investigator

PURI

<https://redirect.ema.europa.eu/resource/105010>

EU PAS number

EUPAS105009

Study ID

105010

DARWIN EU® study

No

Study countries

Denmark

Netherlands

Norway

Spain

United Kingdom

Study description

The overarching goal of this study is to describe the clinical course, outcomes and risk factors for myocarditis and pericarditis associated with Moderna vaccination targeting SARS-CoV-2. We will investigate the clinical course in terms of morbidity and to identify the relevant prognostic factors using the study objectives

Study status

Ongoing

Research institution and networks

Institutions

Julius Clinical Research

Netherlands

First published: 02/03/2021

Last updated

06/03/2024

Institution

Non-Pharmaceutical company

ENCePP partner

Julius Clinical Research

Netherlands

First published: 02/03/2021

Last updated

06/03/2024

Institution

Non-Pharmaceutical company

ENCePP partner

Aarhus University & Aarhus University Hospital DEPARTMENT OF CLINICAL EPIDEMIOLOGY

Denmark

First published: 20/07/2021

Last updated

02/04/2024

Institution

Educational Institution

ENCePP partner

Drug Safety Research Unit (DSRU)

United Kingdom

First published: 10/11/2021

Last updated

16/02/2024

Institution

Not-for-profit

ENCePP partner

Fundació Institut Universitari per a la Recerca a l'Atenció Primària de Salut Jordi Gol i Gurina, IDIAPJGol

Spain

First published: 05/10/2012

Last updated

23/02/2024

Institution

Educational Institution

Laboratory/Research/Testing facility

Not-for-profit

ENCePP partner

The Foundation for the Promotion of Health and Biomedical Research of Valencia Region (FISABIO)

Spain

First published: 01/02/2024

Last updated

01/02/2024

Institution

University of Oslo

First published: 01/02/2024

Last updated 01/02/2024

Institution

FISABIO Spain, University of Oslo Norway

Study timelines

Date when funding contract was signed

Planned:

23/03/2022

Actual:

23/03/2022

Data collection

Planned:

31/03/2023

Actual:

31/03/2023

Date of final study report

Planned:

30/06/2025

Sources of funding

- Pharmaceutical company and other private sector

More details on funding

Moderna Tx

Regulatory

Was the study required by a regulatory body?

Yes

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

EU RMP category 3 (required)

Methodological aspects

Study type

Study type list

Study type:

Non-interventional study

Scope of the study:

Assessment of risk minimisation measure implementation or effectiveness

Disease epidemiology

Main study objective:

The overarching goal of this study is to describe the clinical course, outcomes and risk factors for myocarditis and pericarditis associated with Moderna vaccination targeting SARS-CoV-2.

Study Design

Non-interventional study design

Cohort

Other

Non-interventional study design, other

Case-series

Study drug and medical condition

Medical condition to be studied

Myocarditis

Additional medical condition(s)

Pericarditis

Population studied

Age groups

Infants and toddlers (28 days – 23 months)

Children (2 to < 12 years)

Adolescents (12 to < 18 years)

Adults (18 to < 46 years)

Adults (46 to < 65 years)

Adults (65 to < 75 years)

Adults (75 to < 85 years)

Adults (85 years and over)

Estimated number of subjects

1

Study design details

Outcomes

To identify possible risk factors for myocarditis and pericarditis following Moderna vaccination targeting SARS-CoV-2, including demographic characteristics, medical history, and vaccination characteristics. To characterize the clinical course of myocarditis and pericarditis of varying origin and to identify prognostic factors in the course of myocarditis and pericarditis, To identify whether there are differences in the clinical course and risk factors between myocarditis and pericarditis associated with Moderna vaccination targeting SARS-CoV-2, and myocarditis and pericarditis not associated with vaccinations targeting SARS-CoV-2. For severe cases or cases with sequelae, to identify risk factors for severe myocarditis and pericarditis associated with Moderna vacci

Data analysis plan

For the case-cohort analysis, all cases of myocarditis and pericarditis and the full control cohort will be described: demographics, lifestyle factors, medical- and vaccination history. To identify differences in clinical course (Primary objective 2) and differences in risk factors (Secondary objective 1) for vaccine (un)related myocarditis/pericarditis, cases in the cohort analysis will be compared based on vaccination status. Outcomes and follow-up care will also be characterized, where feasible. Standard descriptive statistics will be used to characterise clinical course, outcomes, and long-term outcomes following the initial myocarditis/pericarditis episode. Cox regression analysis will be utilized to compare the presence of sequelae following myocarditis/pericarditis.

Data management

ENCePP Seal

Signed checklist for study protocols

[Moderna NatMyo 910 - ENCePPChecklistforStudyProtocols.pdf](#)(222.47 KB)

Data sources

Data source(s)

Danish registries (access/analysis)

Clinical Practice Research Datalink

The Information System for Research in Primary Care

Data source(s), other

VID Spain, Norwegian registries Norway

Data sources (types)

[Administrative data \(e.g. claims\)](#)

[Disease registry](#)

[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