

# An Assessment of a relationship between the exposure to COVID-19 vaccines and risk of thrombotic thrombocytopenia syndrome (Association of the risk for Thrombotic Thrombocytopenia Syndrome and Exposure To COVID-19 vaccines) - ATTEST study

**First published:** 14/10/2021

**Last updated:** 27/06/2024

Study

Finalised

## Administrative details

### EU PAS number

EUPAS43687

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### Study ID

49257

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### DARWIN EU® study

No

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### Study countries

## **Study description**

Background/Rationale: A very rare syndrome of thrombosis associated with low platelets has been reported in a few cases of recent exposure to COVID-19 vaccine. This thrombotic thrombocytopenia syndrome seems to be affecting patients of all ages and both genders, at present there is no clear signal of risk factors.

Objectives: To evaluate an association between COVID-19 vaccine exposure and thromboembolic events occurring with thrombocytopenia (thrombotic thrombocytopenia syndrome, TTS).

Study design: Two primary study designs will be considered, a case control study and a self-controlled case series (SCCS). A cohort analysis will be considered, in addition or as an alternative to either of the primary study designs, pending feasibility assessment of the follow-up time.

Data Source(s): Data for the study will be accessed through the NHS Digital Trusted Research Environment (TRE), providing national data coverage. Primary care data will be linked with vaccination, hospitalization, COVID-19 test results, mortality data. Initial exploratory analyses will be conducted using the Oxford-Royal College of General Practitioners sentinel network, ORCHID network database (N>15million). Subjects of interest are people who have received a COVID-19 vaccine. However, we will require access to data from all subjects in the databases.

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## **Study status**

Finalised

## **Research institutions and networks**

## Institutions

Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences (NDORMS), University of Oxford

 United Kingdom

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

**Last updated:** 01/02/2024

**Institution**

Educational Institution

Hospital/Clinic/Other health care facility

## Contact details

### Study institution contact

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**Study contact**

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### Primary lead investigator

Simon de Lusignan

**Primary lead investigator**

## Study timelines

## **Date when funding contract was signed**

Actual: 14/06/2021

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## **Study start date**

Planned: 15/03/2023

Actual: 01/03/2022

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## **Data analysis start date**

Planned: 03/04/2023

Actual: 07/06/2023

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## **Date of final study report**

Planned: 30/11/2023

Actual: 15/05/2024

## Sources of funding

- Pharmaceutical company and other private sector

## More details on funding

AstraZeneca

## Study protocol

[PASS Protocol Assoc D8111R00010 modified following SC\\_Redacted.pdf](#) (9.04 MB)

## Regulatory

## Was the study required by a regulatory body?

Yes

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

EU RMP category 3 (required)

## Other study registration identification numbers and links

D8111R00010

## 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

#### **Main study objective:**

To evaluate an association between COVID-19 vaccine exposure and thromboembolic events occurring with thrombocytopenia (thrombotic thrombocytopenia syndrome, TTS).

## Study drug and medical condition

**Medicinal product name, other**

Vaxzevria

COVID-19 Vaccine (ChAdOx1-S [recombinant])

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**Anatomical Therapeutic Chemical (ATC) code**

(J07BN02) covid-19, viral vector, non-replicating

covid-19, viral vector, non-replicating

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**Medical condition to be studied**

COVID-19 immunisation

COVID-19

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**Additional medical condition(s)**

COVID-19 vaccination/SARS-CoV-2 infection

## Population studied

**Age groups**

- 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)
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**Special population of interest**

Hepatic impaired

Immunocompromised

Pregnant women

Renal impaired

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### **Estimated number of subjects**

25428392

## Study design details

### **Outcomes**

Thrombotic thrombocytopenia syndrome, TTS

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### **Data analysis plan**

A detailed Statistical Analysis Plan (SAP) will be developed for this analysis. The SAP may modify the plans outlined in the protocol, any major modifications of primary endpoint definitions or their analyses would be reflected in a protocol amendment. All statistical analyses will use the R statistical software.

## Documents

### **Study results**

[D8111R00010\\_Redacted\\_CSR\\_Synopsis-v3.pdf](#) (141.35 KB)

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## 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**

- NHS Digital Trusted Research Environment. General Practice Extraction Service (GPES) Data for Pandemic Planning and Research (GDPPR), United Kingdom
  - Oxford Royal College of General Practitioners Clinical Informatics Digital Hub (ORCHID), United Kingdom
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### **Data sources (types)**

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

[Electronic healthcare records \(EHR\)](#)

[Other](#)

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### **Data sources (types), other**

Case-control surveillance database

## 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