Comparative effectiveness and safety studies using the target trial emulation and estimand frameworks (TARGET-EU)

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Administrative details

PURI			
https://redirect.ema.europa.eu/resource/1000000539			
EU PAS number			
EUPAS1000000539			
Study ID			
1000000539			
DARWIN EU® study			
No			
Study countries			
Belgium			

Denmark	
Finland	
☐ Italy	
Netherlands	
Norway	
Spain	
United Kingdom	

Study description

This project, entitled Comparative Effectiveness and Safety Studies Using the Target Trial Emulation and Estimand Frameworks (TARGET EU), aims to advance regulatory use of real-world data (RWD) through application of target trial emulation (TTE) and estimand methodologies.

The overarching goal is to generate evidence that bridges randomized controlled trials (RCTs) and observational studies, supporting regulatory decisions where RCTs are infeasible.

TARGET EU comprises four objectives:

- (1) to review and assess the integration of TTE with the estimand framework for evaluating drug effectiveness and safety,
- (2) to characterise the suitability of diverse European RWD sources for TTE,
- (3) to identify regulatory scenarios—such as PASS, PAES, and trials with external comparators—where TTE provides value, and
- (4) to establish good practice guidelines for communicating TTE results to regulators.

To achieve these aims, the consortium will conduct a literature review and regulatory landscape analysis; assess data quality, accessibility, and fitness-for-purpose using a structured framework; and implement ten emulated trials using rich datasets from the Netherlands, Spain, and the UK, with expansion to other EU countries.

These case studies span public health priorities, including COVID-19 vaccine

Study status

Planned

Research institutions and networks

Institutions





Clinical Pharmacology, Vall d'Hebron Institut de Recerca (VHIR) Spain First published: 18/05/2021 Last updated: 20/05/2021 Institution Hospital/Clinic/Other health care facility ENCePP partner



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

___ Italy

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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



Agencia Española de Medicamentos y Productos Sanitarios (Spanish Agency for Medicines and

Medical Devices, AEMPS)
Spain
First published: 01/02/2024
Last updated: 04/09/2024
Institution
ENCePP partner
Teamit Institute
Spain
First published: 12/03/2024
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Institution Other ENCePP partner
Sint Antonius Hospital
Networks
Vaccine monitoring Collaboration for Europe
(VAC4EU)
Belgium
Denmark
Finland

France
☐ Germany
 ☐ Italy
Netherlands
Norway
Spain
United Kingdom
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Network ENCePP partner
EU Pharmacoepidemiology and Pharmacovigilance
(PE&PV) Research Network
Netherlands
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Network

Contact details

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Primary lead investigator

Study timelines

Date when funding contract was signed

Planned: 19/09/2024

Study start date

Planned: 10/10/2024

Date of final study report

Planned: 10/06/2026

Sources of funding

EMA

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

Study type:	
Non-interventional s	study

Data management

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