

# Assessing exposure to cardiovascular therapy, anxiety depressive syndrome treatment and anti-infectives during pregnancy and breastfeeding (Drug exposure in pregnancy and breastfeeding)

**First published:** 20/10/2020

**Last updated:** 01/02/2023

Study

Finalised

## Administrative details

### PURI

<https://redirect.ema.europa.eu/resource/103358>

### EU PAS number

EUPAS37675

### Study ID

103358

### DARWIN EU® study

No

## Study countries

☐ Spain

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## Study description

Pharmacotherapy during pregnancy and breastfeeding implies the possible risk of congenital disorders and other diseases in the offspring, so it is necessary to assess the benefit-risk balance of all drug treatments before prescribing them in pregnant or breastfeeding women. The drug use in pregnancy and breastfeeding has been assessed through different studies and, lately, through database studies, which offer advantages such as linked information mother-offspring, long-term follow-up periods for mothers and infants, information on maternal and birth outcomes, and information on confounding factors. The use of drugs during pregnancy and breastfeeding has not been assessed through electronic health records in our setting and we plan to assess it through a population based study conducted with SIDIAP data in all women with pregnancy and breastfeeding registered in this database throughout 2011-2020. We plan to analyse drug use during pregnancy and breastfeeding, focalising in cardiovascular, neurologic and psychiatric disorders, to analyse vaccines use during these periods, and to detect possible congenital disorders and other diseases during childhood which may be caused by drug exposures of the mothers during pregnancy and breastfeeding.

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## Study status

Finalised

## Research institutions and networks

### Institutions

# 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**

## Contact details

### Study institution contact

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**Study contact**

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### Primary lead investigator

Ainhoa Gomez-Lumbreras

**Primary lead investigator**

## Study timelines

### Date when funding contract was signed

Planned: 02/09/2019

Actual: 01/09/2020

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**Study start date**

Planned: 01/10/2019

Actual: 20/07/2020

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**Data analysis start date**

Planned: 02/11/2020

Actual: 01/01/2021

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**Date of final study report**

Planned: 30/12/2022

Actual: 30/06/2022

## Sources of funding

- Other

## More details on funding

IDIAPJGol

## Study protocol

[ProtocolAjutsIDIAP\\_PREGNANCYesmena\\_20200709\\_v2-clean.pdf](#)(908.82 KB)

## 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:**

Human medicinal product

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#### **Study type:**

Non-interventional study

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#### **Scope of the study:**

Drug utilisation

#### **Data collection methods:**

Secondary use of data

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

a) To analyse drug use during pregnancy b) To analyse drug use during breastfeeding c) To analyse diagnoses in the offspring of mothers with drug exposure during pregnancy and breastfeeding d) To analyse SARS-Co-V2 infection in pregnant women

## Study Design

## **Non-interventional study design**

Cohort

Other

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

Population-based observational study

# Study drug and medical condition

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

(C01BA) Antiarrhythmics, class Ia

Antiarrhythmics, class Ia

(C07FB) Beta blocking agents and calcium channel blockers

Beta blocking agents and calcium channel blockers

(C08E) NON-SELECTIVE CALCIUM CHANNEL BLOCKERS

NON-SELECTIVE CALCIUM CHANNEL BLOCKERS

(N06A) ANTIDEPRESSANTS

ANTIDEPRESSANTS

(N05B) ANXIOLYTICS

ANXIOLYTICS

# Population studied

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

The study population involved pregnant women aged 12-50 years and their offspring identified from the SIDIAP database during the study period of 2011 to 2020.

Inclusion criteria:

- Women from 12-50 years
  - Women identified with a pregnancy code during the study period (2011-2020)
  - Women with at least one visit registered in primary care/ASSIR during the study period
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### **Age groups**

Adolescents (12 to < 18 years)

Adults (18 to < 46 years)

Adults (46 to < 65 years)

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### **Special population of interest**

Pregnant women

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### **Estimated number of subjects**

200000

## **Study design details**

### **Data analysis plan**

All processes of data management and statistical analysis will be carried out using statistical package R 3.3 (2016). At the exploratory level, the demographic data and baseline characteristics of the study population will be described using relative and absolute frequencies for the categorical and mean variables, standard or median deviation and interquartile range for the continuous variables. In the bivariate analysis, we will consider the Chi-square test or the Fischer exact test for categorical variables and the Student t test or Mann-Whitney U test for continuous variables according to their distribution. The evaluation of mothers' drugs exposures and the risk of diseases and congenital outcomes in their offspring will be carried out by means of multiple

logistic regression models or proportional risk models (Cox). The adjustment for risk factors will be determined based on the characteristics of the study population.

## Documents

### Study results

[IMP-210-CT V01 Mem Final Ajuts IDIAP - Projecte SIDIAP\\_DEDPAB\\_20220516.pdf](#)  
(504.46 KB)

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### Study publications

[Maria Giner-Soriano, Marta Lestón Vázquez, Ainhoa Gomez-Lumbreras, Oriol Prat-V...](#)

[Marta Lestón Vázquez, Maria Giner-Soriano, Oriol Prat Vallverdú, Ainhoa Gomez-L...](#)

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## Data management

## Data sources

### Data source(s)

The Information System for Research in Primary Care (SIDIAP)

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### Data source(s), other

SIDIAP

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### Data sources (types)

[Drug dispensing/prescription data](#)



## 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