## Pregnancy outcome following maternal exposure to mirtazapine: a collaborative ENTIS study

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## Administrative details

#### **PURI**

https://redirect.ema.europa.eu/resource/9839

#### **EU PAS number**

EUPAS2884

#### Study ID

9839

#### **DARWIN EU® study**

No

#### **Study countries**

Czechia

Finland

Israel

Italy

Netherlands

Switzerland

Türkiye

**United Kingdom** 

#### Study description

Observational prospective cohort study comparing pregnancy outcomes after exposure to mirtazapine with two matched control groups: exposure to any selective serotonin reuptake inhibitor (SSRI), and general controls without any exposure to medication known to be

#### Study status

Finalised

#### Research institution and networks

#### **Institutions**

## Swiss Teratogen Information Service

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Institution

Multiple centres: 11 centres are involved in the study

#### **Networks**

## **European Network of Teratology Information Services** (ENTIS)

Austria

Czechia

**Finland** 

France

Germany

Greece

Italy

Netherlands

Spain

Switzerland

**United Kingdom** 

**First published:** 31/05/2010

Last updated

**Network** 

13/05/2024 **ENCePP** partner

## Contact details

**Study institution contact** 

## Ursula Winterfeld Study contact

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## Primary lead investigator

Ursula Winterfeld

Primary lead investigator

## Study timelines

#### Date when funding contract was signed

Planned: 01/08/2012 Actual:

01/08/2012

#### Study start date

Planned: 03/10/2011 Actual: 03/10/2011

#### **Date of final study report**

Planned: 30/04/2015 Actual: 01/06/2015

## Sources of funding

- Pharmaceutical company and other private sector
- Non for-profit organisation (e.g. charity)
- EU institutional research programme
- Other

## More details on funding

No funding

## Regulatory

## Methodological aspects

# Study type list

#### **Study topic:**

Human medicinal product Disease /health condition

#### Study type:

Non-interventional study

#### Scope of the study:

Assessment of risk minimisation measure implementation or effectiveness

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

Primary data collection

#### Main study objective:

The aim of the study is to assess the risk of mirtazapine exposure during pregnancy.

## Study Design

Non-interventional study design

Cohort

## Study drug and medical condition

Study drug International non-proprietary name (INN) or common name MIRTAZAPINE

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

(N06AB) Selective serotonin reuptake inhibitors

#### Medical condition to be studied

Pregnancy

## Population studied

#### Short description of the study population

Pregnant women with or without exposure to mirtazapine.

#### Age groups

Preterm newborn infants (0 - 27 days)Term newborn infants (0 - 27 days)

#### Special population of interest

Pregnant women

#### Estimated number of subjects

1071

## Study design details

#### **Outcomes**

The primary objective is to prospectively evaluate the rate of major birth defects after first trimester exposure to mirtazapine. Secondary objectives are to evaluate pregnancy outcome, birth weight, gestational age at delivery, and neonatal outcome of prospectively collected exposures to mirtazapine at any time during pregnancy.

#### Data analysis plan

The birth defect rates will be calculated taking live births and anomalies in elective terminations of pregnancies (ETOPs) and miscarriages into account. Crude miscarriage rates will be calculated per exposed pregnancies or controls and after exclusion of ETOPs. Miscarriage rates will also be calculated applying the method of cumulative incidence function. Outcome endpoints of interests between the case and control groups will be compared using Chi Square or Fisher's exact tests for categorical data and Kruskal-Wallis (for three groups) or Mann-Whitney tests (for two groups). Further multivariate explorations will rely on logistic regression analysis to account for a possible role of cofactors (dosage level, exposure time and duration, maternal age, alcohol, tobacco).

## Data management

## Data sources

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

Other

#### Data sources (types), other

Prospective patient-based data collection

## 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