

# PELAGIE - Assessment of the Impact of Exposure to Occupational and Environmental Chemicals During Pregnancy on Pregnancy Outcome and Child Development

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## General

### Identification

Detailed name Assessment of the Impact of Exposure to Occupational and Environmental Chemicals During Pregnancy on Pregnancy Outcome and Child Development

Sign or acronym PELAGIE

CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation CNIL n°902076

### General Aspects

Medical area Endocrinology and metabolism  
Gynecology/ obstetrics  
Pediatrics  
Psychology and psychiatry

Study in connection with Covid-19 No

Health determinants Climate  
Geography  
Intoxication  
Lifestyle and behavior  
Occupation  
Pollution

Keywords Solvents, Persistent Organic Pollutants, Water Disinfection by-products; Pregnancy outcomes, child development. Main cohort topics: Health and environment., Pesticides

### Scientific investigator(s) (Contact)

Name of the director Chevrier

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## Collaborations

Participation in projects, networks and consortia Yes

Details Europeans projects: Hi-WATE, ENRIECO, CHICOS,...

## Funding

Funding status Public

Details InVS, direction des relations du travail (Ministère des affaires sociales), ANR, ANSES-AFFSET, Fondation de France, DRASS Bretagne.

## Governance of the database

Sponsor(s) or organisation(s) responsible Institut National de la Santé et de la Recherche Médicale

Organisation status Public

## Additional contact

## Main features

### Type of database

Type of database Study databases

Study databases (details) Cohort study

Database recruitment is carried out by an intermediary A selection of health institutions and services

Database recruitment is carried out as part of an interventional study No

Additional information regarding sample selection. Prospective Other bodies active in creating this cohort: CHU RENNES, maternity hospitals, obstetricians, paediatricians, biological laboratories in Lille and Brest. Pregnant women inclusion cut-off date: 01/12/2005

## Database objective

**Main objective**

General objective: to assess the impact of early-life exposure to occupational and environmental chemicals on pregnancy outcome and child development, including exposure to solvents, pesticides, persistants pollutants and chlorinated derivatives in water.

Secondary objectives:

- to identify environmental sources and individual determinants (socio-demographic characteristics, lifestyle, genetic susceptibility) of exposure to pollutants measured by biomarkers
- to investigate the respective roles of prenatal exposure and exposure during childhood

**Inclusion criteria**

Women in their first trimester of pregnancy (less than 19 weeks amenorrhoea) living in one of the "départements" participating in the study.

## Population type

**Age**

Newborns (birth to 28 days)  
Early childhood (2 to 5 years)  
Childhood (6 to 13 years)  
Adolescence (13 to 18 years)  
Adulthood (19 to 24 years)

**Population covered**

General population

**Pathology**

**Gender**

Male  
Woman

**Geography area**

Regional

**French regions covered by the database**

Bretagne

**Detail of the geography area**

Multicentric cohort throughout France (40 centres):  
ILLE ET VILAINE, COTES D'ARMOR, FINISTERE

## Data collection

### Dates

**Date of first collection (YYYY or MM/YYYY)**

03/2002

**Date of last collection (YYYY or MM/YYYY)**

on-going

## Size of the database

Size of the database (number of individuals) [1000-10 000] individuals

Details of the number of individuals 3421

## Data

Database activity Current data collection

Type of data collected  
Clinical data  
Declarative data  
Paraclinical data  
Biological data

Clinical data (detail)  
Direct physical measures  
Medical registration

Details of collected clinical data  
At birth; neuropsychological examination at 6 years old; growth and pubertal development at 12 years old

Declarative data (detail)  
Paper self-questionnaire

Biological data (detail)  
Type of samples taken: umbilical cord blood, urine (prenatal, childhood), placenta fragment, hair (maternal at birth, childhood), saliva (mother, child), blood (child)

Presence of a biobank Yes

Contents of biobank  
Whole blood  
Serum  
Cord blood  
Fluids (saliva, urine, amniotic fluid, ?)  
Tissues  
DNA

Health parameters studied  
Health event/morbidity  
Health event/mortality

## Procedures

Data collection method  
Self-administered questionnaire: manual input with double data entry  
Clinical examinations: manual input with double data entry

Participant monitoring Yes

Monitoring procedures  
Monitoring by contact with the participant (mail, e-

mail, telephone etc.)

Details on monitoring of participants (Indefinite duration)

Links to administrative sources Yes

Linked administrative sources (detail) SISE-WATER

## Promotion and access

### Promotion

Link to the document <http://www.hal.inserm.fr/PELAGIE>

Description List of publications in HAL

Link to the document <http://tinyurl.com/Publications-Pubmed-PELAGIE>

Description List of publications in Pubmed

### Access

Terms of data access (charter for data provision, format of data, availability delay) Data may be used by academic teams  
To be decided if data may be used by industrial teams.

Access to aggregated data Access on specific project only

Access to individual data Access on specific project only