

# Saturn-Inf 2008-2009 Survey (Enquête Saturn-Inf 2008-2009) - National Survey on Lead Poisoning Prevalence and Infectious Disease Seroprevalence in Children Between 6 Months and 6 Years Old (Lead Poisoning Component and Biobank)

Head :Invs-DSE

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## General

### Identification

Detailed name National Survey on Lead Poisoning Prevalence and Infectious Disease Seroprevalence in Children Between 6 Months and 6 Years Old (Lead Poisoning Component and Biobank)

Sign or acronym Saturn-Inf 2008-2009 Survey (Enquête Saturn-Inf 2008-2009)

CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation CNIL authorisation no. 907160, CCP approval on 10/07/2008 (no. 08-022), AFSSAPS approval no. RCB 2008-A00436-49.

### General Aspects

Medical area Biology  
Pediatrics

Pathology (details) Housing

Health determinants Intoxication  
Lifestyle and behavior  
Social and psychosocial factors

Keywords blood lead level, exposure, lead poisoning, prevalence, children

### Scientific investigator(s) (Contact)

Name of the director Invs-DSE

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Organization Institut de veille sanitaire

## Collaborations

## Funding

Funding status Public

Details InVS

## Governance of the database

Sponsor(s) or organisation(s) responsible Institut de Veille Sanitaire

Organisation status Public

## Additional contact

## Main features

### Type of database

Type of database Study databases

Study databases (details) Not-repeated cross-sectional studies (except case control studies)

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. 2-stage survey: - First stage: random selection of hospitals (hospitals with at least 300 hospitalisations per year for children aged between 6 months and 6 years), double stratification by geographical region (22 metropolitan regions + Martinique + Guadeloupe + Réunion) on the lead exposure risk at home - second stage: complete recruitment of all children hospitalised in the paediatric or paediatric surgery departments and who meet the inclusion criteria.

## Database objective

Main objective

- To estimate the national prevalence of lead poisoning in children between 6 months and 6 years old;
- To determine the blood lead level distribution of children between 6 months and 6 years old by administrative region;
- To update knowledge of factors that determine

blood lead level;  
- To validate indicators that characterise at-risk areas.

#### Inclusion criteria

- Children between 6 months and 6 years old;
- Covered by social security health insurance;
- Inpatient or outpatient hospital stay during study period;
- Where a blood sample was prescribed as part of treatment or where a sampling system (catheter) is already in place;
- Residing in France at the time of enrolment.

### Population type

#### Age

Infant (28 days to 2 years)  
Early childhood (2 to 5 years)  
Childhood (6 to 13 years)  
Adolescence (13 to 18 years)

#### Population covered

General population

#### Gender

Male  
Woman

#### Geography area

National

#### Detail of the geography area

France

### Data collection

#### Dates

Date of first collection (YYYY or MM/YYYY) 2008

Date of last collection (YYYY or MM/YYYY) 2009

#### Size of the database

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

Details of the number of individuals 3,800

### Data

Database activity Data collection completed

Type of data collected Declarative data

Biological data  
Administrative data

Declarative data (detail) Face to face interview

Biological data (detail) Blood lead level

Administrative data (detail) Individual data (child sociodemographic characteristics) + aggregate data (hospital department activity during survey).

Presence of a biobank Yes

Contents of biobank Serum

Details of biobank content Serum sample ( $\geq 1.5$  ml) in cryotube for 1,243 children. Biobank open to the outside for calls for project proposals.

Health parameters studied Health event/morbidity  
Health event/mortality

## Procedures

Data collection method Face-to-face questionnaire with parents recorded by hospital staff. Two blood samples collected for blood lead level assay and Biobank. Collection managed by service provider.

Classifications used Dictionary of variables.

Quality procedure(s) used Checks for duplicated, missing, outlier and inconsistent data.

Participant monitoring No

Links to administrative sources No

## Promotion and access

### Promotion

Link to the document [http://opac.invs.sante.fr/doc\\_num.php?explnum\\_id](http://opac.invs.sante.fr/doc_num.php?explnum_id)

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### Access

Terms of data access (charter for data provision, format of Access to results (protocol and report):  
<http://opac.invs.sante.fr>

data, availability delay)

<http://www.invs.sante.fr/Dossiers-thematiques/Environnement-et-sante/Saturnisme-chez-l-enfant/Donnees-d-impregnation-de-la-population-francaise-par-le-plomb>  
<http://www.invs.sante.fr/Dossiers-thematiques/Environnement-et-sante/Saturnisme-chez-l-enfant/Publications>

Access to data:

individual anonymised data.

Application procedures: request to Bénédicte Bérat.

Data access procedure generated and held by InVS.