

SNSPE - National Surveillance System for Childhood Lead Poisoning

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General

Identification

Detailed name National Surveillance System for Childhood Lead Poisoning

Sign or acronym SNSPE

CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation CNIL approval no. 903398

General Aspects

Medical area Biology
Pediatrics

Pathology (details) housing

Health determinants Intoxication
Lifestyle and behavior
Pollution
Social and psychosocial factors

Keywords lead poisoning, blood lead level, dilapidated housing, obligatory notification, surveillance system, lead, children, poisoning

Scientific investigator(s) (Contact)

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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 INVS - Institut de Veille Sanitaire

Organisation status Public

Additional contact

Main features

Type of database

Type of database Morbidity registers

Additional information regarding sample selection. Surveillance system designed to screen for lead poisoning in children (without knowing population toxicity). Recorded blood lead level testing (initial screening and follow-up) ordered in children (younger than 18) following exposure risk factor research (individual identification or screening campaigns), regardless of the result. Includes cases of lead poisoning reported to the ARS/DDASS (blood lead level higher than 100 µg/L) and cases identified during toxicity surveys.

Database objective

Main objective Monitoring:
1/ Description of lead poisoning screening activities for children;
2/ Identification of lead poisoning cases and description of the characteristics;
3/ Description of medical and environmental management of children with lead poisoning.

Inclusion criteria Children younger than 18 years old with blood lead toxicity.

Population type

Age Newborns (birth to 28 days)
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) 1992

Size of the database

Size of the database (number of
individuals) Greater than 20 000 individuals

Details of the number of
individuals Over 95,000 children with a total of >150,000
records.

Data

Database activity Current data collection

Type of data collected Clinical data
 Declarative data
 Biological data
 Administrative data

Clinical data (detail) Medical registration

Details of collected clinical data Presence of clinical symptoms, anaemia, iron
deficiency.

Declarative data (detail) Face to face interview

Details of collected declarative
data Questionnaire completed by prescribing physician
(interviewing parents) and the laboratory.

Biological data (detail) Blood lead level results, (+/- haemoglobin).

Administrative data (detail) Identification data, place of residence.

Presence of a biobank No

Health parameters studied	Health event/morbidity Others
Other (detail)	Lead poisoning screening, obligatory notification of cases.
Procedures	
Data collection method	The prescribing physician must complete a monitoring form and send it to the laboratory with the order for all blood lead level requests for minors. This includes the date and sampling method, as well as the assay result on the form. A copy is forwarded to the inter-regional poison control centre (CAPTV), and the form is returned to the prescribing physician. Forms are recorded on computer in each CAPTV and then digitally transmitted to InVS that constructs the national anonymous database. This system is supplemented by new lead poisoning case reports (first blood lead level higher than 100 µg/L) by the ARS to InVS. Duplications are deleted. Data retrieved from the SNSPE are anonymous individual data for individuals younger than 18, when blood samples are taken.
Classifications used	-
Quality procedure(s) used	Duplicate processing (2 data sources for lead poisoning cases only): section detected automatically by national software application and another section by manual research. Control and recording at CAPTV and InVS application level. Variable data quality: completeness varies according to region and every passing year (improved completeness in the blood lead level number). Some variables are poorly recorded (medical treatments and environmental measures implemented between blood lead levels).
Participant monitoring	Yes
Details on monitoring of participants	National recommendations included blood lead level follow-up for poisoning or exposure risk factors. The same monitoring form is completed for successive blood lead levels by the physician to clarify the medical treatment and environmental procedures implemented to avoid exposure.
Links to administrative sources	No
Promotion and access	
Promotion	

Link to the document	http://opac.invs.sante.fr/index.php?lvl
Link to the document	http://www.invs.sante.fr/fr../layout/set/print/Publications-et-outils/Rapports-et-syntheses/Environnement-et-sante/2010/Depistage-du-saturnisme-chez-l-enfant-en-France-de-2005-a-2007
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Link to the document	http://www.invs.sante.fr/Dossiers-thematiques/Environnement-et-sante/Saturnisme-chez-l-enfant
Link to the document	https://www.formulaires.modernisation.gouv.fr/gf/erfa_12378.do

Access

Terms of data access (charter for data provision, format of data, availability delay)

Access to results:
On the InVS website: publications and dashboards (aggregate data per year, department and municipality if the number is sufficiently high).

Access to data:
The requesting body may access indirect personal data if authorised by the CNIL.
Send request to InVS.

Source must be mentioned.
Last year of available data: n-2