

# ELFE - French longitudinal study from childhood

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## General

### Identification

Detailed name	French longitudinal study from childhood
Sign or acronym	ELFE
CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation	CNIL n°910504 - CNIS n°2011X716AU - CPP n°IDF IX-11-024 (13/05/2011)

### General Aspects

Medical area	Biology Dermatology, venereology Disability/handicap Endocrinology and metabolism Gynecology/ obstetrics Infectious diseases Ophthalmology Otolaryngology or ENT Pediatrics Pneumology Psychology and psychiatry Study of allergies Traumatology
Study in connection with Covid-19	Yes
Health determinants	Geography Healthcare system and access to health care services Lifestyle and behavior Nutrition Occupation Pollution Social and psychosocial factors
Keywords	family, pregnancy, growth, development, pollution, environment, nutrition, living environment, schooling, socialisation, children

## Scientific investigator(s) (Contact)

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Name of the director	Geay
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Unit	?Elfe? INED-INSERM joint unit
Organization	University of Picardie

## Collaborations

Participation in projects, networks and consortia	Yes
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Details	European Lifecycle project
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## Funding

Funding status	Public
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Details	Ministry for Higher Education and Research, the Ministry for Labour, Employment and Health, and the Ministry for Ecology Sustainable Development, Transport and Housing, + RE-CO-NAI is the recipient of an ANR "Investing in the Future" grant
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## Governance of the database

Sponsor(s) or organisation(s) responsible	French National Institute for Demographic Studies (INED)
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Organisation status Public

Sponsor(s) or organisation(s) responsible French National Institute for Health and Medical Research (INSERM)

Organisation status Public

Presence of scientific or steering committees Yes

## 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. random sample of maternity units

## Database objective

Main objective

- Track changes in the child's living conditions (family, social environment, etc.) and measure their impact on his or her physical and mental development.
- Study the interactions between these living conditions and the child's school career
- Measure the impact of events during pregnancy and the child's health at birth on the latter's subsequent development
- Observe eating habits and their effects on growth (overweight, obesity)
- Assess the child's exposure to chemical, physical or environmental pollutants
- Measure the incidence and prevalence of childhood pathologies at different stages in growth
- Study associations between pathologies and exposure to environmental pollutants

Elfe is one of the two cohorts making up the RECO-NAI research platform, the other being Epipage 2. The general aim of this platform is to set up an

infrastructure to support the collection, highly secure storage and distribution of data on pregnancy, birth and children. The platform will use the information yielded by the child cohorts, both followed from birth, to address key issues in the areas of children's health, development and socialization from an overarching, multidisciplinary perspective. It will also ensure that the cohorts are given a high profile in the world of academic research (French and international), as well as among bodies, organizations and manufacturers with an interest in children. This will ensure optimum use of the data collected and promote their dissemination.

Inclusion criteria	<ul style="list-style-type: none"> <li>- Children born after 33 weeks of pregnancy</li> <li>- single or twin pregnancy</li> <li>- in mainland France</li> <li>- mother aged 18 years and over</li> </ul>
<b>Population type</b>	
Age	<ul style="list-style-type: none"> <li>Newborns (birth to 28 days)</li> <li>Infant (28 days to 2 years)</li> <li>Early childhood (2 to 5 years)</li> <li>Childhood (6 to 13 years)</li> <li>Adolescence (13 to 18 years)</li> </ul>
Population covered	General population
<b>Pathology</b>	
Gender	<ul style="list-style-type: none"> <li>Male</li> <li>Woman</li> </ul>
Geography area	National
Detail of the geography area	Mainland France
<b>Data collection</b>	
<b>Dates</b>	
Date of first collection (YYYY or MM/YYYY)	2011
<b>Size of the database</b>	
Size of the database (number of individuals)	[10 000-20 000] individuals
Details of the number of individuals	18300

## Data

Database activity

Current data collection

Type of data collected

Clinical data  
Declarative data  
Paraclinical data  
Biological data  
Administrative data

Clinical data (detail)

Direct physical measures  
Medical registration

Details of collected clinical data

> Data available in the medical records at the time of birth: neonatal characteristics (weight, height, gestational age, congenital anomalies, circumstances of birth, infections, etc.) > Medical examinations: vaccination, hearing, eyesight, weight/height, asthma, allergies, genital organs and neuropsychomotor tests at different ages

Declarative data (detail)

Paper self-questionnaire  
Internet self-questionnaire  
Face to face interview  
Phone interview

Details of collected declarative data

Exposure: medication, pollution, occupational, tobacco use, alcohol, diet, chemical and physical agents, social status. > Results: congenital anomalies, infections, growth/obesity, neurological development, asthma/allergies, pubescent development, sleep, mental health > Use of healthcare resources

Paraclinical data (detail)

pregnancy monitoring tests, medical imaging

Biological data (detail)

At birth, urine, venous blood and maternal hair  
post-partum: Breast milk, meconium, stools (at D3);  
urine, hair, infant stools at 3.5 years

Administrative data (detail)

pairing with SNIIR-AM data

Presence of a biobank

Yes

Contents of biobank

Whole blood  
Serum  
Plasma  
Cord blood  
Fluids (saliva, urine, amniotic fluid, ?)  
Tissues  
DNA  
DNAC/RNAm

## Others

Details of biobank content	plasma, serum, whole blood, red blood cells, buffy coat, urine, hair, milk, stools and meconium, RNA (sub-sample)
Health parameters studied	Health event/morbidity Health care consumption and services Quality of life/health perception
Care consumption (detail)	Hospitalization Medical/paramedical consultation Medicines consumption
<b>Procedures</b>	
Data collection method	- Self-administered questionnaire on diet and exposure during pregnancy completed by the mother in the maternity unit.- notes from obstetrics record- Face-to-face meeting, at home- Telephone surveys- Self-administered questionnaires on infant diet between
Classifications used	ICD-10
Participant monitoring	Yes
Monitoring procedures	Monitoring by contact with the participant (mail, e-mail, telephone etc.) Monitoring by crossing with a medical-administrative database
Details on monitoring of participants	annual follow-up for up to 3 years, then every 2-3 years
Links to administrative sources	Yes
Linked administrative sources (detail)	SNIIR-AM database
<b>Promotion and access</b>	
<b>Promotion</b>	
Link to the document	<a href="http://tinyurl.com/HAL-ELFE">http://tinyurl.com/HAL-ELFE</a>
Description	List of publications in HAL
Link to the document	<a href="http://tinyurl.com/Pubmed-ELFE">http://tinyurl.com/Pubmed-ELFE</a>
Description	List of publications in Pubmed

Link to the document

[Elfe.pdf](#)

## Access

Dedicated website

<https://www.elfe-france.fr/>

Presence of document that lists variables and coding procedures

Yes

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

Data access platform: access via the website: [www.elfe-france.fr/acces-donnees](http://www.elfe-france.fr/acces-donnees) or direct access: <https://pandora.vjf.inserm.fr/public/>

The proposals should be submitted to an ELFE data access committee which will determine the relevance of the project and the suitability of the data requested.

Access to aggregated data

Access on specific project only

Access to individual data

Access on specific project only