

# TESTIS - Case-Control Study on the Relationship Between Environmental, Domestic and Occupational Exposure during Early Life, and the Risk of Germ Cell Testicular Cancer in Adulthood

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## General

### Identification

Detailed name	Case-Control Study on the Relationship Between Environmental, Domestic and Occupational Exposure during Early Life, and the Risk of Germ Cell Testicular Cancer in Adulthood
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Sign or acronym	TESTIS
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CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation	CPP: Favourable opinion of 11 March 2014 (A14-94) and ANSM approval on 24 February 2014 (140184B-12)
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### General Aspects

Medical area	Cancer research
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Health determinants	Climate Genetic Geography Lifestyle and behavior Occupation
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Keywords	multiple exposure, endocrine disruptors, environment, pesticides, risk factors
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### Scientific investigator(s) (Contact)

Name of the director	Fervers
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Unit	Cancer and Environment Unit
Organization	Léon Bérard Centre; Claude Bernard University Lyon 1; International Research Centre
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Unit	Cancer and Environment Unit
Organization	Léon Centre
Collaborations	
Funding	
Funding status	Public
Details	Inserm (National Institute of Health and Medical Research) - INCa (National Cancer Institute)
Governance of the database	
Sponsor(s) or organisation(s) responsible	Léon Bérard Centre
Organisation status	Public
Additional contact	

## Main features

### Type of database

Type of database

Study databases

Study databases (details)

Case control 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.

Subjects were recruited from Human Embryo and Sperm Conservation and Study Centres (Besançon, Bordeaux, Caen, Clermont-Ferrand, Dijon, Grenoble, Lille, Lyon, Marseilles, Montpellier, Nancy, Nice, Paris Tenon, Paris Jean-Verdier, Paris Cochin, Reims, Rennes, Rouen, Strasbourg, Toulouse, Tours).

### Database objective

Main objective

Main aim: To study the relationship between various exposures, especially to pesticides, during critically sensitive periods in testicular development (pre-conception, intrauterine and early childhood) and the risk of developing testicular cancer in adulthood. Environmental, occupational and domestic exposure will be taken into account in this assessment.

Secondary objectives: To investigate the hypothesis of a dual impact (early life and adulthood) by studying the relationship between various exposures (occupational, environmental and domestic) until adulthood and the risk of developing testicular cancer.

To study genetic polymorphisms that may be potentially related to TGCT in the literature, as well as the interactions between these polymorphisms and environmental risk factors, including polymorphisms linked to the metabolic pathways of organochlorine pesticides.

Inclusion criteria

Inclusion criteria:

Case subjects and controls must meet the following criteria to be included:

? Males aged between 18 and 44

? Born in metropolitan France

? Can understand, read and write French

? No psychiatric illness or severe cognitive disorder

? Volunteered for the study and signed an informed consent

? Member of a social security scheme.

Exclusion criteria:

? Males under temporary guardianship

? History of TGCT or cryptorchidism (only for controls).

## Population type

Age	Adolescence (13 to 18 years) Adulthood (19 to 24 years) Adulthood (25 to 44 years)
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Population covered	General population
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Gender	Male
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Geography area	National
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Detail of the geography area	Metropolitan France
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## Data collection

### Dates

Date of first collection (YYYY or MM/YYYY)	01/2015
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## Size of the database

Size of the database (number of individuals)	[1000-10 000[ individuals
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Details of the number of individuals	1,500 subjects ? 500 cases ? 1,000 controls
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## Data

Database activity	Current data collection
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Type of data collected	Declarative data Biological data
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Declarative data (detail)	Phone interview
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Details of collected declarative data	Occupational history of the subject; his/her father (1 year before pregnancy until the child is 17 years old); his/her mother (beginning of professional career until the child is 17 years old); full residential history and domestic exposures.
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Biological data (detail)	Blood sample
Presence of a biobank	Yes
Contents of biobank	Whole blood Plasma DNA
Details of biobank content	The sample includes two 7-mL blood collection tubes (1 EDTA and 1 heparin tube) in order to collect the buffy coat and plasma.
Health parameters studied	Health event/morbidity
Procedures	
Data collection method	Blind telephone interview conducted by a professional investigator where subject case or control are unknown.
Participant monitoring	No
Links to administrative sources	No
Promotion and access	
Promotion	
Access	
Terms of data access (charter for data provision, format of data, availability delay)	Contact the scientist in charge.
Access to aggregated data	Access on specific project only
Access to individual data	Access on specific project only