

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

Sign or acronym TESTIS

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)

General Aspects

Medical area Cancer research

Health determinants Climate
Genetic
Geography
Lifestyle and behavior
Occupation

Keywords multiple exposure, endocrine disruptors, environment, pesticides, risk factors

Scientific investigator(s) (Contact)

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Organization	Léon Bérard Centre; Claude Bernard University, Lyon

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Unit	Cancer and Environment Unit
Organization	Léon Centre

Collaborations

Funding

Funding status	Public
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Details	Inserm (National Institute of Health and Medical Research) - INCa (National Cancer Institute)
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Governance of the database

Sponsor(s) or organisation(s) responsible	Léon Bérard Centre
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Organisation status	Public
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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)

Population covered
General population

Gender
Male

Geography area
National

Detail of the geography area
Metropolitan France

Data collection

Dates

Date of first collection (YYYY or MM/YYYY)
01/2015

Size of the database

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

Details of the number of individuals
1,500 subjects ? 500 cases ? 1,000 controls

Data

Database activity
Current data collection

Type of data collected
Declarative data
Biological data

Declarative data (detail)
Phone interview

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.

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