

# ENFANT SCANNER (CHILD CT SCANS) - Evaluation of the risk of radiation-induced cancer or leukaemia in a cohort of children who have had one or several CT scans during childhood.

Head :Laurier Dominique, LABORATOIRE D'ÉPIDÉMIOLOGIE DES RADIATIONS DRPH/SRBE/LEPID IRSN INSTITUT DE RADIOPROTECTION ET DE SURETÉ NUCLÉAIRE (IRSN)

Bernier Marie-Odile, LABORATOIRE D'EPIDÉMIOLOGIE (LEPID) INSTITUT DE RADIOPROTECTION ET DE SÛRETÉ NUCLÉAIRE (IRSN)

Jacob Sophie, LABORATOIRE D'EPIDÉMIOLOGIE (LEPID) LABORATOIRE D'EPIDÉMIOLOGIE (LEPID)

Last update : 06/26/2014 | Version : 2 | ID : 60187

## General

### Identification

Detailed name Evaluation of the risk of radiation-induced cancer or leukaemia in a cohort of children who have had one or several CT scans during childhood.

Sign or acronym ENFANT SCANNER (CHILD CT SCANS)

CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation CNIL : 20/12/2008, n°908354

### General Aspects

Medical area Cancer research

Health determinants Iatrogenic

Keywords leukaemia, health, environment

### Scientific investigator(s) (Contact)

Name of the director Laurier

Surname Dominique

Address 92262 FONTENAY AUX ROSES

Phone +33 (0)1 58 35 89 99

Email dominique.laurier@irsn.fr

Unit LABORATOIRE D'ÉPIDÉMIOLOGIE DES RADIATIONS DRPH/SRBE/LEPID IRSN INSTITUT DE RADIOPROTECTION ET DE SURETÉ NUCLÉAIRE

(IRSN)

Name of the director	Bernier
Surname	Marie-Odile
Address	92262 FONTENAY AUX ROSES
Phone	+33 (0)1 58 35 72 25
Email	marie-odile.bernier@irsn.fr
Unit	LABORATOIRE D'EPIDÉMIOLOGIE (LEPID) INSTITUT DE RADIOPROTECTION ET DE SÛRETÉ NUCLÉAIRE (IRSN)

Name of the director	Jacob
Surname	Sophie
Address	92262 FONTENAY AUX ROSES
Phone	+33 (0)1 58 35 74 27
Email	sophie.jacob@irsn.fr
Unit	LABORATOIRE D'EPIDÉMIOLOGIE (LEPID) LABORATOIRE D'EPIDÉMIOLOGIE (LEPID)

## Collaborations

Participation in projects, networks and consortia	Yes
---	-----

## Funding

Funding status	Public
----------------	--------

Details	IRSN, Communauté Européenne, INCa, Ligue contre le cancer
---------	---

## Governance of the database

Sponsor(s) or organisation(s) responsible	IRSN
---	------

Organisation status	Public
---------------------	--------

## 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  
An administrative base or a register

Database recruitment is carried out as part of an interventional study No

Additional information regarding sample selection. Retrospective Closing date for inclusion not determined

## Database objective

Main objective General objective: the goal of this study is to evaluate the risk of radiation-induced cancer or leukaemia associated with use of CT during early childhood (first scan carried out between the ages of 0 and 10 years), and to quantify the relationship between exposure to ionising radiation and the onset of the pathologies being studied. Secondary objective: to study any possible modifying factors (age at exposure, gender etc.) in this dose-response relationship.

Inclusion criteria Inclusion of children exposed to at least one CT scan for a nonmalignant pathology: - under 5 years for the 2000-2006 period - under 10 years for the 2007-2013 period.

## 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 20 centres throughout France

## Data collection

## Dates

Date of first collection (YYYY or MM/YYYY) 01/2000

## Size of the database

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

Details of the number of individuals 130 000

## Data

Database activity Data collection completed

Type of data collected  
Clinical data  
Paraclinical data  
Administrative data

Clinical data (detail)  
Direct physical measures  
Medical registration

Paraclinical data (detail)  
Dosimetry data: examination date, area examined, image acquisition protocol, individual dosimetry (PACS)

Administrative data (detail)  
Demographic data: last name, first name, date of birth, place of birth, postal code of residence, vital status

Presence of a biobank No

Health parameters studied  
Health event/morbidity  
Health event/mortality  
Health care consumption and services

Care consumption (detail) Medical/paramedical consultation

## Procedures

Data collection method Retrospective research each 3 years

Participant monitoring Yes

Details on monitoring of participants Indefinite duration

Links to administrative sources Yes

Linked administrative sources Pathology register

(detail)

## Promotion and access

### Promotion

Link to the document [http://www.ncbi.nlm.nih.gov/pubmed/?term=%28ENFANT+SCANNER+AND+%28Laurier+D\[author\]+OR+Bernier+MO\[author\]+OR+Jacob+S\[author\]%29%29+OR+25314057\[uid\]+OR+22190749\[uid\]](http://www.ncbi.nlm.nih.gov/pubmed/?term=%28ENFANT+SCANNER+AND+%28Laurier+D[author]+OR+Bernier+MO[author]+OR+Jacob+S[author]%29%29+OR+25314057[uid]+OR+22190749[uid])

Description List of publications in Pubmed

### Access

Terms of data access (charter for data provision, format of data, availability delay) Data may not be used by academic or industrial teams

Access to aggregated data Access on specific project only

Access to individual data No access