

# TOMENF2 - Cohort on Iatrogenic Risks Associated with CT Scans Received in Childhood

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## General

### Identification

Detailed name Cohort on Iatrogenic Risks Associated with CT Scans Received in Childhood

Sign or acronym TOMENF2

CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation Accord CNIL n°1347141

### General Aspects

Medical area Cancer research  
Cardiology  
Neurology  
Ophthalmology  
Radiology and medical imaging

Health determinants Iatrogenic

Others (details) Cancer, cardiovascular and cerebrovascular disease, cataracts

Keywords Tomography, dose-effect relationship, CT scan, ionising radiation, iatrogenic effects, dosimetry

### Scientific investigator(s) (Contact)

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Organization INSERM

Collaborations

Funding

Funding status Mixed

Details - INSERM - Commission Européenne - EDF  
Recherche de financements additionnels

Governance of the database

Sponsor(s) or organisation(s) responsible INSERM

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

Database recruitment is made on the basis of: Another treatment or procedure

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

Additional information regarding sample selection. Only University Hospitals Centres with computerised data will be considered. Subjects admitted to one of these centres and meeting the required inclusion criteria were selected.

Database objective

Main objective The objective is to form a multicentric cohort of 30,000 children admitted to radiology departments in France in order to describe the pattern of computerised tomography use during childhood and to estimate the dosage associated with these examinations. This cohort will later explore the iatrogenic effects of low-dosage of ionising

radiation, carcinogenic and non-carcinogenic effects.

#### Inclusion criteria

- Children under 15 years old admitted to radiology services for initial examination after 1st January 2000 - Children permanently living in France - not diagnosed with cancer during first year after computerised tomography (CT) scan.

#### Population type

##### Age

Early childhood (2 to 5 years)  
Childhood (6 to 13 years)  
Adolescence (13 to 18 years)  
Adulthood (19 to 24 years)

##### Population covered

General population

##### Gender

Male  
Woman

##### Geography area

National

##### Detail of the geography area

University hospitals in Lyon, Caen and Reims at present. University hospitals in Brest, Rennes, Besançon, Amiens and Dijon pending agreement

#### Data collection

##### Dates

Date of first collection (YYYY or MM/YYYY)

2009

#### Size of the database

Size of the database (number of individuals)

[10 000-20 000] individuals

Details of the number of individuals

30 000

#### Data

Database activity

Current data collection

Type of data collected

Clinical data  
Paraclinical data  
Administrative data

Clinical data (detail)

Direct physical measures

Paraclinical data (detail)	Personal information: name, gender, place of birth, date of birth, post code.
Administrative data (detail)	INSEE, SNIIRAM
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
<b>Procedures</b>	
Participant monitoring	Yes
Details on monitoring of participants	The cohort will be prospectively monitored for cancers (leukaemias and solid tumours) as well as heart disease, cerebrovascular disease and cataracts by cross-referencing data from the National Registry of Solid Tumours and SNIIRAM. The acquisition of vital status and date of death from INSEE data, as well as cause of death will be carried out at the time the cohort is formed and every 5 years.
Links to administrative sources	Yes
Linked administrative sources (detail)	INSEE, SNIIRAM
<b>Promotion and access</b>	
<b>Promotion</b>	
Link to the document	<a href="http://www.ncbi.nlm.nih.gov/pubmed/24670918">http://www.ncbi.nlm.nih.gov/pubmed/24670918</a>
Link to the document	<a href="http://www.ncbi.nlm.nih.gov/pubmed/24419490">http://www.ncbi.nlm.nih.gov/pubmed/24419490</a>
<b>Access</b>	
Terms of data access (charter for data provision, format of data, availability delay)	Contact the scientific director.
Access to aggregated data	Access on specific project only
Access to individual data	Access on specific project only