

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.

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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)

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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

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|----------------|--|
| 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. |
|----------------|--|

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|--------------------|---|
| 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) |
|-----|---|

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|--------------------|--------------------|
| Population covered | General population |
|--------------------|--------------------|

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|--------|---------------|
| Gender | Male Woman |
|--------|---------------|

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|----------------|----------|
| Geography area | National |
|----------------|----------|

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|------------------------------|------------------------------|
| 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