

- Inflammatory pulmonary diseases in coal miners

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Last update : 09/05/2017 | Version : 2 | ID : 6115

General

Identification

Detailed name	Inflammatory pulmonary diseases in coal miners
CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation	CNIL

General Aspects

Medical area	Biology Pneumology
Pathology (details)	Biology
Health determinants	Genetic
Keywords	Coal mine - dust - genetic polymorphisms - chest radiography

Scientific investigator(s) (Contact)

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Unit	Recherche en Épidémiologie et Biostatistique
Organization	Institut National de Santé et Recherche

Collaborations

Funding

Funding status	Public
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Details - Programme environnement et santé- Instituts américains de la santé

Governance of the database

Sponsor(s) or organisation(s) responsible Institut National de Santé et Recherche Médicale

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 population file

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

Additional information regarding sample selection. The first three groups included :1) 80 miners with a moderate level of exposure to coal mine dust, normal chest radiography (00)2) 80 miners with a high level of exposure and a normal radiography3) 80 coal miners with a high level of exposure and an anormal radiography (57 with a 01 radio and 23 with a 10 radio). These three groups of miners were matched for age and tobacco. The fourth group of 20 coal miners with a pneumoconiosis (11 radio or more) was included at the second survey.

Database objective

Main objective The study of Lorraine Miners was set up in 1990 with 2 main objectives.
- To estimate the predictive value of chest tomodynamometry and of sensitive functional tests in the development of peumoconioses.
- To test specific hypotheses about the physiology of emphysema and fibrosis using biological markers: proteases/antiproteases, oxidative/antioxidative and degradation/repair balances.
The study of genetics has subsequently been developed.

Inclusion criteria	-Male- between 34 and 50 years old - working in a coal mine
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Population type

Age	Adulthood (25 to 44 years) Adulthood (45 to 64 years)
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Population covered	General population
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Gender	Male
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Geography area	Local
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French regions covered by the database	Alsace Champagne-Ardenne Lorraine
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Detail of the geography area	Coal Basin of Lorraine
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Data collection

Dates

Date of first collection (YYYY or MM/YYYY)	1990
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Date of last collection (YYYY or MM/YYYY)	1999
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Size of the database

Size of the database (number of individuals)	< 500 individuals
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Details of the number of individuals	260
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Data

Database activity	Data collection completed
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Type of data collected	Clinical data Paraclinical data
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Clinical data (detail)	Direct physical measures Medical registration
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Paraclinical data (detail)	- chest radiography - tomography scan
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Presence of a biobank	No
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Health parameters studied	Health event/morbidity
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Procedures

Data collection method Interpretation of the annual results of medical examination of subjects was done by two independent medical experts, at the inclusion year (1990), and follow-up (1994 and 1999).

Participant monitoring Yes

Details on monitoring of participants annual physical exams (chest radiography)

Links to administrative sources No

Promotion and access

Promotion

Link to the document <http://tinyurl.com/Publications-HAL>

Description List of publications in HAL

Link to the document <http://tinyurl.com/Publications-Pubmed>

Description List of publications in Pubmed

Access

Terms of data access (charter for data provision, format of data, availability delay) The detailed protocol and all publications are available via <http://cesp.vjf.inserm.fr/~lorraine/index.html>

Access to aggregated data Access on specific project only

Access to individual data Access on specific project only