

FERMA - Risk factors of rural environment and allergic and respiratory diseases

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Last update : 02/10/2014 | Version : 2 | ID : 2600

General

Identification

Detailed name Risk factors of rural environment and allergic and respiratory diseases

Sign or acronym FERMA

General Aspects

Medical area Biology
Immunology
Pneumology
Study of allergies

Health determinants Climate
Nutrition
Occupation
Pollution

Keywords Farming environment, indoor air pollution, Asthma, Allergies

Scientific investigator(s) (Contact)

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Unit Epidémiologie des maladies allergiques et respiratoires EPAR

Organization INSERM

Collaborations

Funding

Funding status	Mixed
Details	ANSES
Governance of the database	
Sponsor(s) or organisation(s) responsible	EPAR INSERM U707
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 carried out as part of an interventional study	No
Additional information regarding sample selection.	Subjects born and having lived on a farm. The MSA files were used (Occupational medicine)
Database objective	
Main objective	<p>Two objectives:</p> <p>1) Estimate the prevalence and the severity of allergic and respiratory diseases in rural areas, especially asthma and OCPD.</p> <p>2) Study the environmental factors in rural areas in liaison with the development of these diseases, and in particular better focus on the role of biological and chemical air pollutants in the risk of allergic and respiratory diseases in rural areas.</p>
Inclusion criteria	<p>Two populations:</p> <p>1) 340 children aged 9 to 11 years born and having lived all of their lives on a farm. These children underwent an allergy and respiratory health check (SPT, running test, respiratory function, weight, height...;</p> <p>2) 1000 adult farm workers (employees and owners) recruited via Mutuelle des Salariés Agricoles (MSA). These individuals were questioned using a</p>

questionnaire. A sub-sample (n=504) underwent a respiratory health check including spirometry with bronchodilator response, eCO, eNO, saturometry, blood pressure measurement, blood sample (for pneumoproteins), urine, saliva (for DNA), weight, height....

Population type	
Age	Childhood (6 to 13 years) Adulthood (19 to 24 years) Adulthood (25 to 44 years) Adulthood (45 to 64 years)
Population covered	General population
Gender	Male Woman
Geography area	Regional
French regions covered by the database	Auvergne Rhône-Alpes
Detail of the geography area	Auvergne region
Data collection	
Dates	
Date of first collection (YYYY or MM/YYYY)	2009
Date of last collection (YYYY or MM/YYYY)	2011
Size of the database	
Size of the database (number of individuals)	[1000-10 000[individuals
Details of the number of individuals	340 enfants/children 1000 adultes/adults
Data	
Database activity	Current data collection
Type of data collected	Clinical data Biological data
Clinical data (detail)	Direct physical measures

Biological data (detail)	BloodUrine
Presence of a biobank	No
Health parameters studied	Health event/morbidity Health care consumption and services Quality of life/health perception Others
Care consumption (detail)	Hospitalization Medical/paramedical consultation Medicines consumption
Other (detail)	Exposure to the rural environment via questionnaire + measurements of pollutant concentrations inside farms.
Procedures	
Data collection method	Standardized questionnaire + health check
Participant monitoring	Yes
Details on monitoring of participants	Only phase I was carried out
Links to administrative sources	No
Promotion and access	
Promotion	
Link to the document	http://www.hal.inserm.fr/FERMA
Description	List of publications in HAL
Link to the document	http://tinyurl.com/Pubmed-FERMA
Description	List of publications in Pubmed
Access	
Terms of data access (charter for data provision, format of data, availability delay)	Methods for accessing the database are currently being defined
Access to aggregated data	Access on specific project only
Access to individual data	Access on specific project only