

ISAAC - International Study of Asthma and Allergies in Childhood in France

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General

Identification

Detailed name International Study of Asthma and Allergies in Childhood in France

Sign or acronym ISAAC

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

General Aspects

Medical area Pediatrics
Study of allergies

Health determinants Genetic
Lifestyle and behavior
Pollution
Social and psychosocial factors

Keywords skin test, air pollution, child, environment, allergy

Scientific investigator(s) (Contact)

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Unit UMRS 707 : Épidémiologie, systèmes d'information, modélisationÉpidémiologie des maladies allergiques et respiratoires EPAR

Organization	Institut national de la santé et de la recherche médicale -
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Collaborations

Participation in projects, networks and consortia	Yes
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Details	During ECHRS paediatrics. The project involves six hospital departments (Clermont-Ferrand, Marseille, Bordeaux, Reims, Strasbourg, Paris) and three specialist teams: ? epidemiology team: Dr I. Annesi-Maesano, G. Debotte, INSERM U 472), ? paediatric team: Prof. P. Scheinman, Dr. C. Karila, Dr. E. Paty (Necker-Enfants Malades Hospital, Paris); ? metrology team: M. Squinazi, Y. Le Moullec, M. Laurent (laboratoire d'hygiène de la ville de Paris [The City of Paris Hygiene Laboratory]).
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Funding

Funding status	Public
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Details	- National Institute for Healthcare and Medical Research - Ministry of Employment and Solidarity - Mutuelle Générale de l'Éducation Nationale - Agency for the Environment and Energy Management, ADEME/PRIMEQUAL 96
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Governance of the database

Sponsor(s) or organisation(s) responsible	Institut national de la santé et de la recherche médicale - Inserm
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Organisation status	Public
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Additional contact

Main features

Type of database

Type of database	Study databases
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Study databases (details)	Not-repeated cross-sectional studies (except case control studies)
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Database recruitment is carried out by an intermediary	A population file
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Database recruitment is carried out as part of an interventional study	No
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Additional information regarding sample selection. Sample of children with average age of 10.4 (plus or minus standard deviation), plus or minus 0.7 years, from 108 schools and 401 classes.

Database objective

Main objective To establish a global map of the prevalence of childhood allergic diseases and to determine the risk factors for these diseases by comparing contrasting population groups based on a particularly strong or weak prevalence.

The ISAAC study consists of three phases: The objective of Phase I is to assess the prevalence of asthma, allergic rhinitis and eczema by using a simple questionnaire and possible video questionnaire (for asthma), in representative samples of children from two age groups: 13-14 years old (obligatory for all centres) and 6-7 years old (optional). Phase II aims to identify the risk factors and treatment procedures for allergic diseases through a more detailed study of selected population groups with relatively high or low prevalence rates suggested during Phase I. Phase III aims to assess the trends in allergy prevalence. As such, the Phase I protocol will be repeated in areas that participated in this phase.

Inclusion criteria

- primary school children
- between 8 and 13 years old

Population type

Age Childhood (6 to 13 years)

Population covered General population

Gender Male
Woman

Geography area International

Detail of the geography area One hundred and fifty-six centres in 56 countries: North America, Central America, South America, Western Europe, Central Europe (Albania, Germany, Estonia, Spain, France, Greece, Iceland, Italy, Norway, Netherlands, Portugal, U.K., Sweden), the Baltic States, Far East, Western Pacific, Anglophone Africa, Francophone Africa, Southeast Asia, East Mediterranean countries and Oceania. In France

(primary schools in six French cities: Créteil, Clermont-Ferrand, Bordeaux, Marseille, Reims, Strasbourg).

Data collection

Dates

Date of first collection (YYYY or MM/YYYY) 03/1999

Date of last collection (YYYY or MM/YYYY) 10/2000

Size of the database

Size of the database (number of individuals) [1000-10 000[individuals

Details of the number of individuals Monde/World: 721 601 France: 7 432

Data

Database activity Data collection completed

Type of data collected
Clinical data
Declarative data
Paraclinical data
Biological data

Clinical data (detail) Medical registration

Details of collected clinical data Allergy assessment: skin prick tests, Williams standardised skin test (eczema), free running test, with peak respiratory flow (bronchial hyper-reactivity).

Declarative data (detail) Paper self-questionnaire

Details of collected declarative data Parent questionnaire assessing the child's personal and family history, respiratory symptoms and domestic environment (allergen exposure, passive smoking, psychosocial factors)

Paraclinical data (detail) Anthropometric measurements (height, weight, hip contour , head circumference)

Biological data (detail) urine and hair cotinine research (nicotine metabolite), inflammation and lead markers

Presence of a biobank No

Procedures

Data collection method	Pollutants measured in school yards and measurements collected by urban air quality monitoring networks: - SO ₂ , FN, NO _x , NO ₂ , O ₃ and PM using collective measurements (city monitoring networks) (macroenvironment); - NO _x , NO ₂ , O ₃ , VOC (formaldehyde) and PM using passive sensors within schools (microenvironment); - NO ₂ , O ₃ , COV. using individual badges as part of the panel (individual). Each centre can choose the protocol best suited to them. However, a minimum protocol was agreed at European level.
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Participant monitoring	No
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Links to administrative sources	No
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Promotion and access

Promotion

Link to the document	http://erj.ersjournals.com/content/24/3/406.long
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Link to the document	http://www.sciencedirect.com/science/article/pii/S035745708001342
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Link to the document	http://www.annallergy.org/article/S1081-1206%2810%2960598-4/abstract
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Link to the document	http://www.resmedjournal.com/article/S0954-6111%2807%2900099-6/abstract
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Link to the document	http://www.resmedjournal.com/article/S0954-6111%2806%2900221-6/abstract
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Link to the document	http://www.sciencedirect.com/science/article/pii/S1352231005010575
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Link to the document	http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2222.2005.02336.x/abstract;jsessionid
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Link to the document	http://onlinelibrary.wiley.com/doi/10.1111/j.1398-9995.2005.00860.x/abstract
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Link to the document	http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2222.2004.02002.x/abstract
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Access

Terms of data access (charter for data provision, format of data, availability delay)

Contact the scientist in charge

Access to aggregated data

Access on specific project only

Access to individual data

Access on specific project only