INCA1, INCA2, INCA3 - French national dietary survey

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General

Identification

Detailed name	French national dietary survey
Sign or acronym	INCA1, INCA2, INCA3
CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation	--

General Aspects

Medical area	Endocrinology and metabolism Pediatrics
Study in connection with Covid-19	No
Health determinants	Intoxication Lifestyle and behavior Nutrition Social and psychosocial factors
Keywords	diet, eating habits, food supplements, food safety, nutrition

Scientific investigator(s) (Contact)

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Organization	ANSES

Collaborations

Participation in projects, networks and consortia	Yes

Funding

Funding status	Public
Details	INCA 1 : Ministère de la Santé, Ministère de l'Agriculture et Ministère de la Consommation INCA 2 : AFSSA

Governance of the database

Sponsor(s) or organisation(s) responsible	ANSES
Organisation status	Public
Presence of scientific or steering committees	Yes

Additional contact

Main features	
Type of database	
Type of database	Study databases
Study databases (details)	Repeated cross-sectional studies (except case control studies)
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 sampling plan is three-stage (primary units, households and individuals) cluster sampling design based on the national census. The sampling was stratified on region and size of urban area and balanced on the average age of the head of household and household's income. The sampling plan has been designed with the help of the statistical methods unit at the National Institute of Statistics and Economic Studies (INSEE) to enable processing at ZEAT (NUTS 1) level for variables in common with the ENNS study by the French Institute for Public Health Surveillance (InVS).
Database objective	
Main objective	Quantitatively characterize individual eating habits, nutritional intakes and dietary exposure in the population to all substances present in food, particularly those that are regulated (environmental contaminants, pesticide residues, food additives).
Inclusion criteria	INCA1:The sample is made up of 1985 adults aged 15 years old and over and 1018 children aged 3 to 14 years old. Representativeness is ensured for mainland France (excluding Corsica). INCA2:The sample is made up of 2,624 adults aged 18 to 79 years old and 1,455 children aged 3 to 17 years old. Representativeness is ensured for mainland France (excluding Corsica).
Population type	
Age	Infant (28 days to 2 years) Early childhood (2 to 5 years)

	Childhood (6 to 13 years) Adolescence (13 to 18 years) Adulthood (19 to 24 years) Adulthood (25 to 44 years) Adulthood (45 to 64 years) Elderly (65 to 79 years)
Population covered	General population
Gender	Male Woman
Geography area	National
Detail of the geography area	Metropolitan France (excepting Corsica)

Data collection

Dates

Date of first collection (YYYY or MM/YYYY)	1998
Date of last collection (YYYY or MM/YYYY)	2007

Size of the database

Size of the database (number of individuals)	[10 000-20 000[individuals
Details of the number of individuals	INCA1: 1985 adults aged 15 years old and over and 1018 children aged 3 to 14 years old. INCA2: 2624 adults aged 18 to 79 years old and 1455 children aged 3 to 17 years old.

Data

Database activity	Data collection completed
Type of data collected	Clinical data Declarative data Administrative data
Declarative data (detail)	Paper self-questionnaire Internet self-questionnaire Face to face interview Phone interview
Administrative data (detail)	All of the sociodemographic variables are those used by public statistics: region, size of urban area, age, gender, profession and socioprofessional category of each person and of the head of

	household, educational level, size of household, household income (in brackets).
Presence of a biobank	No
Health parameters studied	Others
Other (detail)	overweight and obesity, dietary exposure

Procedures

Data collection method	Individual eating habits declared may be subject to under-declaration and, more occasionally, over-declaration. The INCA's study survey method has been validated by biomarker on healthy volunteers. Recently, as part of the EFCOVAL European project, declarations of nutritional intake have been compared to the corresponding biomarkers and the deviations from populational indicators stay below 10%. In 2006-7, the participation rate in the study was 63% in 18-79 year-old adults and 69% in 3-17 year old children. The INCA1 and INCA2 method has been designed to enable a comparison with several European countries (UK, Ireland, Sweden, Italy and the Netherlands). A methodological change for INCA3 allows for standardized collection using the WHO's EPIC-SOFT program - translated into several languages and recommended by the European Food Safety Authority (EFSA). It is currently used in Belgium, the Netherlands, Germany and the Czech Republic and adoption is underway in other countries.
Classifications used	The INCA2 study was subject to a favorable opportunity opinion from the French National Council for Statistical Information (CNIS) and a favorable opinion from this Council's label committee (general interest study). The food nomenclatures are specific to each study. Links to the nomenclatures used by EFSA and by European regulations are then made.
Participant monitoring	No
Links to administrative sources	No

Promotion and access

Promotion

Link to the document	http://www.afssa.fr/Documents/PASER-Ra-INCA2.pdf

Link to the document	http://www.afssa.fr/Documents/PASER-Sy-INCA2.pdf

Description

Access

Terms of data access (charter for data provision, format of data, availability delay)	The general report from the INCA2 study was published in February 2009 by Afssa (which became the French Agency for Food, Environmental and Occupational Health & Safety [Anses] in 2010) and can be found online at www.anses.fr: Lafay et al (2009) Etude individuelle Nationale des Consommations Alimentaires 2 (INCA2) 2006-7, Agence Française de Sécurité Sanitaire des Aliments, ISBN 978-2-11-097789-2, 225 pages. Disaggregated data can be accessed by signing an agreement with Anses.
Access to aggregated data	Free access
Access to individual data	Access on specific project only