E3N Study - The French E3N Prospective Cohort Study

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Last update : 12/21/2020 | Version : 8 | ID : 3162

General

Identification

Detailed name	The French E3N Prospective Cohort Study
Sign or acronym	E3N Study
CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation	CNIL n°327346 V 13, CPP (03/12/2008)

General Aspects

Medical area	Biology Cancer research Cardiology Dermatology, venereology Disability/handicap Endocrinology and metabolism Gastroenterology et hepatology Geriatrics Gynecology/ obstetrics Hematology Infectious diseases Neurology Pneumology Psychology and psychiatry Radiology and medical imaging Rheumatology Study of allergies Traumatology
Study in connection with Covid-19	Yes
Health determinants	Genetic Geography Lifestyle and behavior Medicine Nutrition Occupation

	Pollution Social and psychosocial factors
Scientific investigator(s) (Contact)	
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Organization	Inserm, Université Paris-Saclay, Institut Gustave Roussy
Collaborations	
Participation in projects, networks and consortia	Yes
Details	European EPIC study (European Prospective Investigation into Cancer and Nutrition)

Funding	
Funding status	Mixed
Details	Ligue nationale contre le Cancer, Inserm, Gustave Roussy, MGEN, European Union (for the EPIC study) - Additional funding through call for projects

Governance of the database	
Sponsor(s) or organisation(s) responsible	Institut National de la Santé et de la Recherche Médicale - Inserm
Organisation status	Public
Sponsor(s) or organisation(s) responsible	Université Paris-Saclay
Organisation status	Public
Sponsor(s) or organisation(s) responsible	Institut Gustave Roussy
Organisation status	Both
Organisation status	
Presence of scientific or steering committees	Yes

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.	In 1990, recruiting via an informative MGEN-INSERM letter sent along with an inclusion questionnaire to all women who are members of the MGEN and born between 1925 and 1950..

Database objective	
Main objective	Detecting risk factors of cancer and chronic pathologies in women
Inclusion criteria	Women born between 1925 and 1950 and affiliated with MGEN (Mutuelle Générale de l'Education nationale)
Population type	
Age	Adulthood (45 to 64 years) Elderly (65 to 79 years) Great age (80 years and more)
Population covered	General population
Pathology	
Gender	Woman
Geography area	National
Detail of the geography area	France
Data collection	
Dates	
Date of first collection (YYYY or MM/YYYY)	1990
Date of last collection (YYYY or MM/YYYY)	2020
Size of the database	
Size of the database (number of individuals)	Greater than 20 000 individuals
Details of the number of individuals	98 995
Data	
Database activity	Current data collection
Type of data collected	Clinical data Declarative data Paraclinical data Biological data Administrative data

Clinical data (detail)	Direct physical measures
Details of collected clinical data	Anatomopathological report and / or hospital records to confirm and clarify the reported diseases
Declarative data (detail)	Paper self-questionnaire Internet self-questionnaire Phone interview
Details of collected declarative data	Lifestyle and health information
Paraclinical data (detail)	imaging (mammographies....)
Biological data (detail)	within the framework of case/controls studies: hormone levels, vitamin status, biomarkers
Administrative data (detail)	identifying data
Presence of a biobank	Yes
Contents of biobank	Whole blood Serum Plasma Fluids (saliva, urine, amniotic fluid, ?) Tissues DNA
Details of biobank content	Blood from a sample of 25,000 women taken between 1994 and 1998: erythrocytes, buffy coat (lymphocytes), serum, plasma. Saliva from a sample of 47,000 other women collected between 2009 and 2011. Tumor Bank : breast cancers' tumoral tissues
Health parameters studied	Health event/morbidity Health event/mortality Health care consumption and services Quality of life/health perception
Care consumption (detail)	Hospitalization Medical/paramedical consultation Medicines consumption
Procedures	
Data collection method	Self-questionnaire at inclusion and then every three years during follow-up: Collection of data on the state of health, lifestyle, plus specific questionnaires under the responsibility of a researcher or for another project (on sub-samples).- Clinical

	examination at inclusion for a sub-sample of 25,000 women in the cohort: pulse, blood pressure, weight, height. Data collected between 1994 and 1998 when blood samples were taken.- Questionnaire with the general practitioners in the case of a pathology declared by the woman: confirmation and anatomopathological report for more than 80 % of cancers.
Classifications used	ICD 9 and ICD 10
Participant monitoring	Yes
Monitoring procedures	Monitoring by contact with the participant (mail, e-mail, telephone etc.) Monitoring by contact with the referring doctor Monitoring by crossing with a medical-administrative database Monitoring by crossing with a morbidity register
Details on monitoring of participants	The duration of follow-up for the women participating in the study is undetermined, as the objective is to follow them as long as possible, until death.
Followed pathology	C00-C97 - Malignant neoplasms
	E10-E14 - Diabetes mellitus
	G20 - Parkinson disease
	N80 - Endometriosis
	J45 - Asthma
	I10-I15 - Hypertensive diseases
	K50 - Crohn disease [regional enteritis]
	K58 - Irritable bowel syndrome
	F32 - Depressive episode
Links to administrative sources	Yes
Linked administrative sources (detail)	CépiDC, health insurance care reimbursement data (SNIIR-AM), MGEN

Promotion and access

Promotion

Link to the document	http://www.hal.inserm.fr/E3N
Description	List of publications in HAL
Link to the document	http://www.ncbi.nlm.nih.gov/pubmed/?term=E3N-EPIC+OR+%28E3N+AND+%28cohort+OR+escape%29%29+NOT+23110838[uid]
Description	List of publications in Pubmed
Link to the document	http://epic.iarc.fr/
Link to the document	https://www.e3n.fr/les-articles-scientifiques
Description	List of the principal publications of the team
Access	
Dedicated website	https://www.e3n.fr
Presence of document that lists variables and coding procedures	Yes
Terms of data access (charter for data provision, format of data, availability delay)	Data access methods for outside teams: authorization request to the scientific committee of the E3N study
Access to aggregated data	Access on specific project only
Access to individual data	Access on specific project only