

E4N - Epidemiological Study Concerning The Children of E3N Women

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Last update : 12/21/2020 | Version : 6 | ID : 3101

General	
Identification	
Detailed name	Epidemiological Study Concerning The Children of E3N Women
Sign or acronym	E4N
CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation	Inserm ethical evaluation comitee (IRB00003888) - For the 4N-G1 cohort : CNIL authorization DR-2014-224. For the E4N-G2 cohort : CNIL authorization DR-2017-049
General Aspects	
Medical area	Biology Cancer research Cardiology Dermatology, venereology Disability/handicap Endocrinology and metabolism Gastroenterology et hepatology Geriatrics Gynecology/ obstetrics Hematology Neurology Pediatrics Pneumology Psychology and psychiatry Radiology and medical imaging Rheumatology Study of allergies Traumatology Urology, andrology and nephrology
Study in connection with Covid-19	Yes
Health determinants	Genetic Geography Iatrogenic Lifestyle and behavior Nutrition Occupation

Pollution
Social and psychosocial factors

Keywords family environment, Lifestyle and behaviour, family members, family determinants

Scientific investigator(s) (Contact)

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Unit	Inserm - CESP, Team "Health across Generations"
Organization	Inserm

Collaborations

Funding

Funding status	Mixed
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Details	ANR - National Research Agency : Investissements for the future (2011-2019 et 2020-2025)
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Governance of the database

Sponsor(s) or organisation(s) responsible	Paris Saclay University
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Organisation status	Public
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Sponsor(s) or organisation(s) responsible	Inserm - Institut National de la Santé et de la Recherche Médicale
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Organisation status	Public
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Sponsor(s) or organisation(s) responsible	Gustave Roussy Institute
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Organisation status	Both
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Presence of scientific or steering committees	Yes
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Additional contact

Main features

Type of database

Type of database	Study databases
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Study databases (details)	Cohort study
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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.	Family cohort : include the members of the E3N women's family on 3 generations : - E3N women and their children's fathers (E4N-G1) - E3N women's children (E4N-G2) - E3N women's grandchildren (E4N-G3)
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Database objective

Main objective	The familial E3N-E4N study purpose is to study health in relation to the modern way of life in people of the same family over three generations. The E4N study aims to extend the E3N study by following the descendants of women who participated in the E3N study. The objective is to better understand the onset of major diseases, from genetics, family environment and the environment outside the family. As well as gathering a large amount of prospective epidemiological data, E4N cohort permit the collection of important information concerning phenotypes and genetics.
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Inclusion criteria	Women included in the E3N cohort (G1), Fathers of E3N women's children (G1) Sons and daughters of E3N women (G2), Grandchildren of E3N women (G3).
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Population type

Age	Adulthood (19 to 24 years) Adulthood (25 to 44 years)
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	Adulthood (45 to 64 years) Elderly (65 to 79 years) Great age (80 years and more)
Population covered	General population
Pathology	
Gender	Male Woman
Geography area	National
Detail of the geography area	France
Data collection	
Dates	
Date of first collection (YYYY or MM/YYYY)	December 2014 (E4N-G1)
Date of last collection (YYYY or MM/YYYY)	December 2020 (E4N-G2)
Size of the database	
Size of the database (number of individuals)	Greater than 20 000 individuals
Details of the number of individuals	18 000 fathers (E4N-G1) / 50 000 expected children (E4N-G2) / 20 000 expected grandchildren (E4N-G3)
Data	
Database activity	Current data collection
Type of data collected	Clinical data Declarative data Paraclinical data Biological data Administrative data
Clinical data (detail)	Medical registration
Details of collected clinical data	Anatomical Pathology Reporting for Declared Cancer
Declarative data (detail)	Paper self-questionnaire Internet self-questionnaire Phone interview

Details of collected declarative data	Lifestyle and state of health
Biological data (detail)	Saliva samples (DNA extraction)
Administrative data (detail)	Identification data
Presence of a biobank	Yes
Contents of biobank	Fluids (saliva, urine, amniotic fluid, ?) DNA
Health parameters studied	Health event/morbidity Health event/mortality Health care consumption and services Quality of life/health perception
Care consumption (detail)	Hospitalization Medicines consumption
Procedures	
Data collection method	For G1: paper self-questionnaires ; For G2 and G3: webquestionnaires, sms, trackers of physical activity; For all: contacts with doctors + matching with the medico-administrative databases of Health Insurance and CNAV
Classifications used	CIM 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	Data collection will take several years and the duration of the study is not limited in time.
Followed pathology	II - Neoplasms
	IV - Endocrine, nutritional and metabolic diseases
	V - Mental and behavioural disorders
	XI - Diseases of the digestive system
	I10-I15 - Hypertensive diseases

E11 - Type 2 diabetes mellitus

G20 - Parkinson disease

I20-I25 - Ischaemic heart diseases

Links to administrative sources Yes

Linked administrative sources (detail) CepiDc, SNIIR-AM, CNAV

Promotion and access

Promotion

Access

Dedicated website [website of the E4N study](#)

Presence of document that lists variables and coding procedures Yes

Terms of data access (charter for data provision, format of data, availability delay) External team access: submission of access request to the Scientific Committee of the E4N Study

Access to aggregated data Access on specific project only

Access to individual data No access