**E3N Study - The French E3N Prospective Cohort Study**

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### General

#### Identification

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

#### General Aspects

<table>
<thead>
<tr>
<th>Medical area</th>
<th>Biology</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cancer research</td>
</tr>
<tr>
<td></td>
<td>Cardiology</td>
</tr>
<tr>
<td></td>
<td>Dermatology, venereology</td>
</tr>
<tr>
<td></td>
<td>Disability/handicap</td>
</tr>
<tr>
<td></td>
<td>Endocrinology and metabolism</td>
</tr>
<tr>
<td></td>
<td>Gastroenterology et hepatology</td>
</tr>
<tr>
<td></td>
<td>Geriatrics</td>
</tr>
<tr>
<td></td>
<td>Gynecology/ obstetrics</td>
</tr>
<tr>
<td></td>
<td>Hematology</td>
</tr>
<tr>
<td></td>
<td>Infectious diseases</td>
</tr>
<tr>
<td></td>
<td>Neurology</td>
</tr>
<tr>
<td></td>
<td>Pneumology</td>
</tr>
<tr>
<td></td>
<td>Psychology and psychiatry</td>
</tr>
<tr>
<td></td>
<td>Radiology and medical imaging</td>
</tr>
<tr>
<td></td>
<td>Rheumatology</td>
</tr>
<tr>
<td></td>
<td>Study of allergies</td>
</tr>
<tr>
<td></td>
<td>Traumatology</td>
</tr>
</tbody>
</table>

Study in connection with Covid-19 : Yes

Health determinants : Genetic  
Geography  
Lifestyle and behavior  
Medicine  
Nutrition  
Occupation
<table>
<thead>
<tr>
<th><strong>Scientific investigator(s)</strong> (Contact)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name of the director</strong></td>
<td>Severi</td>
</tr>
<tr>
<td><strong>Surname</strong></td>
<td>Gianluca</td>
</tr>
<tr>
<td><strong>Address</strong></td>
<td>Gustave Roussy Institute, Espace Maurice Tubiana, 114 rue Edouard Vaillant, 94805 Villejuif</td>
</tr>
<tr>
<td><strong>Phone</strong></td>
<td>+33 (0)1 42 11 41 48</td>
</tr>
<tr>
<td><strong>Email</strong></td>
<td><a href="mailto:gianluca.severi@inserm.fr">gianluca.severi@inserm.fr</a></td>
</tr>
<tr>
<td><strong>Unit</strong></td>
<td>Inserm - Centre de Recherche en Epidémiologie et Santé des Populations (CESP) - Team Exposome and Heredity</td>
</tr>
<tr>
<td><strong>Organization</strong></td>
<td>Inserm, Université Paris-Saclay, Institut Gustave Roussy</td>
</tr>
</tbody>
</table>

| **Name of the director** | Boutron-Ruault |
| **Surname** | Marie-Christine |
| **Address** | Gustave Roussy Institute, Espace Maurice Tubiana, 114 rue Edouard Vaillant, 94805 Villejuif |
| **Phone** | +33 (0)1 42 11 64 66 |
| **Unit** | Inserm - Centre de Recherche en Epidémiologie et Santé des Populations (CESP) - Team Exposome and Heredity |
| **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

<table>
<thead>
<tr>
<th>Funding status</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixed</td>
<td>Ligue nationale contre le Cancer, Inserm, Gustave Roussy, MGEN, European Union (for the EPIC study) - Additional funding through call for projects</td>
</tr>
</tbody>
</table>

### Governance of the database

<table>
<thead>
<tr>
<th>Sponsor(s) or organisation(s) responsible</th>
<th>Organisation status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institut National de la Santé et de la Recherche Médicale - Inserm</td>
<td>Public</td>
</tr>
<tr>
<td>Université Paris-Saclay</td>
<td>Public</td>
</tr>
<tr>
<td>Institut Gustave Roussy</td>
<td>Both</td>
</tr>
</tbody>
</table>

| Presence of scientific or steering committees | Yes |

### Additional contact

### Main features

### Type of database

<table>
<thead>
<tr>
<th>Type of database</th>
<th>Study databases</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Study databases (details)</th>
<th>Cohort study</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Database recruitment is carried out by an intermediary</th>
<th>A population file</th>
</tr>
</thead>
</table>

| Database recruitment is carried out as part of an interventional study | No |

<p>| 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.. |</p>
<table>
<thead>
<tr>
<th>Database objective</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main objective</strong></td>
<td>Detecting risk factors of cancer and chronic pathologies in women</td>
</tr>
<tr>
<td><strong>Inclusion criteria</strong></td>
<td>Women born between 1925 and 1950 and affiliated with MGEN (Mutuelle Générale de l'Education nationale)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Population type</th>
<th></th>
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</thead>
</table>
| **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 |

<table>
<thead>
<tr>
<th>Data collection</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dates</strong></td>
<td></td>
</tr>
<tr>
<td>Date of first collection (YYYY or MM/YYYY)</td>
<td>1990</td>
</tr>
<tr>
<td>Date of last collection (YYYY or MM/YYYY)</td>
<td>2020</td>
</tr>
<tr>
<td><strong>Size of the database</strong></td>
<td></td>
</tr>
<tr>
<td>Size of the database (number of individuals)</td>
<td>Greater than 20 000 individuals</td>
</tr>
<tr>
<td>Details of the number of individuals</td>
<td>98 995</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Database activity</td>
<td>Current data collection</td>
</tr>
</tbody>
</table>
| Type of data collected | Clinical data  
Declarative data  
Paraclinical data  
Biological data  
Administrative data |
<table>
<thead>
<tr>
<th>Clinical data (detail)</th>
<th>Direct physical measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Details of collected clinical data</td>
<td>Anatomopathological report and / or hospital records to confirm and clarify the reported diseases</td>
</tr>
</tbody>
</table>
| 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.

<table>
<thead>
<tr>
<th>Classifications used</th>
<th>ICD 9 and ICD 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participant monitoring</td>
<td>Yes</td>
</tr>
<tr>
<td>Monitoring procedures</td>
<td>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</td>
</tr>
<tr>
<td>Details on monitoring of participants</td>
<td>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.</td>
</tr>
<tr>
<td>Links to administrative sources</td>
<td>Yes</td>
</tr>
<tr>
<td>Linked administrative sources (detail)</td>
<td>CépiDC, health insurance care reimbursement data (SNIIR-AM), MGEN</td>
</tr>
</tbody>
</table>

**Promotion and access**

**Promotion**
<table>
<thead>
<tr>
<th>Link to the document</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="http://www.hal.inserm.fr/E3N">http://www.hal.inserm.fr/E3N</a></td>
<td>List of publications in HAL</td>
</tr>
<tr>
<td><a href="https://www.e3n.fr/les-articles-scientifiques">https://www.e3n.fr/les-articles-scientifiques</a></td>
<td>List of the principal publications of the team</td>
</tr>
</tbody>
</table>

**Access**

- **Dedicated website**: [https://www.e3n.fr](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