

# ERA - Arterial Stiffness Progression

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## General

### Identification

Detailed name Arterial Stiffness Progression

Sign or acronym ERA

CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation  
CNIL : 07/07/2008

### General Aspects

Medical area  
Biology  
Cardiology

Health determinants Genetic

Keywords Carotid plaque, arterial stiffness, arterial hypertrophy, environment

### Scientific investigator(s) (Contact)

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Organization CHU

### Collaborations

Participation in projects, networks and consortia Yes

## Funding

Funding status Mixed

Details Inserm, FRM, FDF

## Governance of the database

Sponsor(s) or organisation(s) responsible CHU Nancy

Organisation status Public

## 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 selection of health institutions and services

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

Additional information regarding sample selection. Prospective Other bodies active in creating this cohort: INSERM U961, CARLOS LABAT IE2 Inclusion cut-off date: 01/01/1993

## Database objective

Main objective

General objective: to evaluate the influence of haemodynamic, biological, and environmental factors on the progression of arterial stiffness in normotensive and hypertensive subjects, as well as role of genetic determinants. The first medium-term evaluation was carried out after 6 years of monitoring 680 patients (1998-1999). A second long-term evaluation is planned for the year 2008-2009 i.e. 10 years after the last evaluation.

Secondary objectives: - To investigate haemodynamic, biological, and genetic determinants for telomere attrition (determinant in cellular ageing) over a period of 10 years (between 1999 and 2009) - To establish the relationship between arterial stiffness, parietal hypertrophy and carotid plaque during different visits.

Inclusion criteria	Normotensive and hypertensive subjects recruited and examined in preventative investigation centres and clinics in Paris (IPC - health examination clinics authorised by social security and CNAM) for assessment
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## Population type

Age	Adulthood (19 to 24 years) Adulthood (25 to 44 years) Adulthood (45 to 64 years)
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Population covered	Sick population
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Gender	Male Woman
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Geography area	Regional
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French regions covered by the database	Île-de-France
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Detail of the geography area	Paris region
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## Data collection

### Dates

Date of first collection (YYYY or MM/YYYY)	01/1992
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Date of last collection (YYYY or MM/YYYY)	01/2009
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### Size of the database

Size of the database (number of individuals)	[500-1000[ individuals
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Details of the number of individuals	680
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### Data

Database activity	Current data collection
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Type of data collected	Clinical data Declarative data Paraclinical data Biological data
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Clinical data (detail)	Direct physical measures
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Medical registration

Declarative data (detail)

Face to face interview

Paraclinical data (detail)

Imaging, pulse wave velocity, central aortic pressure, haemodynamic index

Biological data (detail)

Type of samples taken: Blood samples for DNA extraction (genotyping, telomere length) and dosage of atherosclerosis biological markers (inflammation, lipid oxidation, MMP, homocysteine?? ).

Presence of a biobank

Yes

Contents of biobank

Serum  
DNA

Details of biobank content

Serum bank, DNA bank

Health parameters studied

Health event/morbidity  
Health event/mortality

## Procedures

Data collection method

Interview: entry from a paper questionnaire (manual input) with double data entry

Participant monitoring

Yes

Details on monitoring of participants

Follow-up duration: 15 years

Links to administrative sources

Yes

Linked administrative sources (detail)

IPC data base

## Promotion and access

### Promotion

Link to the document

<http://tinyurl.com/Pubmed-ERA>

Description

List of publications in Pubmed

### Access

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

Data may be used by academic teams. Access determined by agreement with Scientific Council and Steering Committee.

Access to aggregated data

Access on specific project only

Access to individual data

Access on specific project only