

# Mona Lisa - PREDOR - Prediction of Damage to Organs: Prospective Cohort Study in The General Population on Brain and Cardiovascular Ageing

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## General

### Identification

Detailed name Prediction of Damage to Organs: Prospective Cohort Study in The General Population on Brain and Cardiovascular Ageing

Sign or acronym Mona Lisa - PREDOR

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

CNIL

### General Aspects

Medical area Cardiology  
Geriatrics  
Neurology

Keywords Prediction, alteration, response to cognitive and psychometric tests, seven years, predictive factors, cardiovascular risk

### Scientific investigator(s) (Contact)

Name of the director Bongard

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Unit	UMR 1027 (Epidémiologie et analyses en Santé Publique) Equipe 3 (Epidémiologie de l'athérosclérose et des maladies cardiovasculaires)
Organization	CHU
Name of the director	Ferrières
Surname	Jean
Collaborations	
Funding	
Funding status	Mixed
Details	Crédits de revitalisation, Appel d'Offres Local Délégation à la Recherche Clinique et l'Innovation, CHU de Toulouse, Industrie
Governance of the database	
Sponsor(s) or organisation(s) responsible	CHU Toulouse
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 population file
Database recruitment is carried out as part of an interventional study	No
Additional information regarding sample selection.	1,200 subjects (men and women) between 42 and 79 years of age, living in Haute-Garonne, randomly selected from 1,600 subjects who participated in the MONA LISA survey in 2005. 300 subjects (men and women) between 80 and 89 years of age, living in Haute-Garonne, recruited de novo by random selection from electoral registers.

## Database objective

### Main objective

Main objectives: - To identify predictors of impaired response to psychometric and cognitive tests and an altered level of cardiovascular risk over a period of seven years. - To develop corresponding risk prediction formulas. Secondary objectives: - To compare responses to psychometric and cognitive tests according to age. - To assess the prevalence of fragility syndrome according to age. - To assess the prevalence of dependency in subjects over 60 years old. - To identify predictive factors of the onset of fragility syndrome or dependency from a follow-up initiated in 2012. - On a sub-sample of 500 subjects that have undergone cerebral imaging (PET scan + MRI): - To assess the prevalence of the presence of cerebral amyloid deposits in the general population according to age. - To quantify the significance of cerebral amyloid deposits in terms of age. - To describe the relationship between cerebral amyloid deposits and response to psychometric and cognitive tests. - To identify factors associated with the presence of cerebral amyloid deposits.

### Inclusion criteria

Subjects between 42 and 89 years old, from both genders, living in Haute-Garonne, randomly selected from electoral registers and covered by a social security scheme of equivalent.

## Population type

### Age

Adulthood (45 to 64 years)  
Elderly (65 to 79 years)  
Great age (80 years and more)

### Population covered

General population

### Gender

Male  
Woman

### Geography area

Departmental

### French regions covered by the database

Languedoc-Roussillon Midi-Pyrénées

### Detail of the geography area

Haute-Garonne

## Data collection

### Dates

### Date of first collection (YYYY or MM/YYYY)

2012

## Size of the database

Size of the database (number of individuals) [1000-10 000] individuals

Details of the number of individuals 1500

## Data

Database activity Current data collection

Type of data collected  
Clinical data  
Paraclinical data  
Biological data  
Administrative data

Clinical data (detail) Medical registration

Paraclinical data (detail) Psychometric and cognitive tests (storage and retrieval of words, Wechsler Adult Intelligence Survey - Digit Symbol Substitution Subtest (WAISS-DSST), Stroop test, verbal fluency test) (Mini Mental State Examination (MMSE)), and for cognitive impairment cases: Alzheimer's Disease Assessment Scale-Cognitive (ADAS-COG) and Clinical Dementia Rating (CDR)), as well as an assessment of frailty syndrome (Fried criteria) and dependence (basic Activities of Daily Living (ADL) and Instrumental Activities of Daily Living (IADL))

Biological data (detail) Glucose, haemoglobin A1c, lipid profile, creatinine, transaminases, insulin level, ECG, measurement of body fat

Administrative data (detail) Socio-economic and demographic characteristics, education level, personal and family medical history

Presence of a biobank Yes

Contents of biobank  
Serum  
Plasma  
DNA

Details of biobank content Serum, plasma, DNA

Health parameters studied  
Health event/morbidity  
Health event/mortality  
Health care consumption and services

Care consumption (detail) Medical/paramedical consultation  
Medicines consumption

## Procedures

Data collection method	During clinical examination: weight, height, waist and hip measurement, heart rate, arterial blood pressure, systolic blood pressure index
Participant monitoring	Yes
Details on monitoring of participants	Annual follow-up from 2012 and re-evaluation in 5 years
Links to administrative sources	No

## Promotion and access

### Promotion

Link to the document	<a href="http://www.ncbi.nlm.nih.gov/pubmed/?term=MONA+LISA+AND+Bongard+V+%5BAuthor%5D">http://www.ncbi.nlm.nih.gov/pubmed/?term=MONA+LISA+AND+Bongard+V+%5BAuthor%5D</a>
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### Access

Terms of data access (charter for data provision, format of data, availability delay)	Publications
Access to aggregated data	Access on specific project only
Access to individual data	Access on specific project only