

# RaDiCo-SEdVasc - National cohort on the vascular Ehlers-Danlos syndrome (SEdV)

Head :JEUNEMAITRE Xavier, Inserm UMR S970

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## General

### Identification

Detailed name	National cohort on the vascular Ehlers-Danlos syndrome (SEdV)
Sign or acronym	RaDiCo-SEdVasc
CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation	CCTIRS n° 15.955 - Decision CNIL n°DR-2016-265

### General Aspects

Medical area	Cardiology Pediatrics Radiology and medical imaging Rare diseases
Study in connection with Covid-19	No
Pathology (details)	The inheritance of vEDS follows an autosomal dominant trait and is related to mutations in the COL3A1 gene, encoding the pro- $\alpha$ 1 chain of type III procollagen. The mutation alters the assembly, stability and thus secretion and resistance to tensile stress of this fibrillar collagen, resulting in early spontaneous arterial, digestive and obstetrical accidents.
Health determinants	Genetic Healthcare system and access to health care services Lifestyle and behavior Medicine Occupation Social and psychosocial factors

### Scientific investigator(s) (Contact)

Name of the director JEUNEMAITRE

Surname	Xavier
Address	Service de génétique / Centre National de référence des Maladies vasculaires Rares Hôpital Européen Georges Pompidou (HEGP) 20-40, rue Leblanc 75908 Paris Cedex FRANCE
Phone	+33 (0)1 56 09 38 81 / +33 (0)1 56 09 50 41
Unit	Inserm UMR S970
Organization	French National Institute for Health and Medical Research (Inserm)

## Collaborations

Participation in projects, networks and consortia Yes

Details European Reference Network

## Funding

Funding status Public

Details Funded by the French « Investissements d'Avenir » cohorts programme, Grant « ANR » 10-COHO-0003.

## Governance of the database

Sponsor(s) or organisation(s) responsible Inserm

Organisation status Public

Presence of scientific or steering committees Yes

Labelling and database evaluation Security audit certification of the database

## Additional contact

## Main features

## Type of database

Type of database Morbidity registers

Database recruitment is carried out as part of an interventional study

No

## Database objective

**Main objective**

The main objective of this study is to describe the natural course of vascular Ehlers-Danlos syndrome, in particular the order of appearance of different types of complications (arterial, digestive, pulmonary and uterine).

**Inclusion criteria**

Patients eligible for inclusion in this study have to fulfil all of the following criteria:

- Patients (adults and children) with genetically-proven vEDS (presence of a pathogenic mutation at the COL3A1 gene);
- Patients (or his/her legal guardian) who are signed informed consent or does not oppose to his/her personal data collection.

## Population type

**Age**

Childhood (6 to 13 years)  
Adolescence (13 to 18 years)  
Adulthood (19 to 24 years)  
Adulthood (25 to 44 years)  
Adulthood (45 to 64 years)  
Elderly (65 to 79 years)  
Great age (80 years and more)

**Population covered**

Sick population

**Pathology**

I73 - Other peripheral vascular diseases

**Gender**

Male  
Woman

**Geography area**

National

**Detail of the geography area**

European extension envisaged

## Data collection

### Dates

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

2016

**Date of last collection (YYYY or MM/YYYY)**

2021

## Size of the database

Size of the database (number of individuals)	< 500 individuals
Details of the number of individuals	340 subjects targeted
Data	
Database activity	Current data collection
Type of data collected	Clinical data Declarative data Paraclinical data Biological data Cost data
Clinical data (detail)	Direct physical measures Medical registration
Details of collected clinical data	Medical personal and family history; medical characteristics at baseline and throughout the study; type of genetic mutation; patient phenotype
Declarative data (detail)	Paper self-questionnaire Internet self-questionnaire Face to face interview
Paraclinical data (detail)	Laboratory features and imaging or surgical reports
Biological data (detail)	Measurements like hemoglobin, hematocrit, leucocytes and platelets, sodium, potassium, calcium, chloride, creatinine, fasting blood glucose, albumin, total protein, triglycerides, total cholesterol, HDL-cholesterol, LDL-cholesterol ASAT, ALAT, gamma GT
Cost data (detail)	Medico-economic cost of patient care
Presence of a biobank	No
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
Quality of life/perceived health (detail)	Short-Form Health Survey (SF-36 for adults, SF-10 for children), Hospital Anxiety and Depression Scale (HADS)

## Procedures

Data collection method	eCRF using REDCap; Cloud based, secure by design web accessible platform. Certified Health Data Hosting resource
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Classifications used	HPO, ICD10, Snomed CT, Orpha Codes and ORDO, Drug dictionary (DCIs)
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Quality procedure(s) used	Continuous data management; Data Management Plan and Data Validation Plan. Native controls and Query system
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Participant monitoring	Yes
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Monitoring procedures	Monitoring by convocation of the participant Monitoring by contact with the referring doctor
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Followed pathology	I73 - Other peripheral vascular diseases
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Links to administrative sources	Yes
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Linked administrative sources (detail)	PMSI, AMELI, NABM, CCAM, NGAP, AMI, AMK
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## Promotion and access

### Promotion

### Access

Presence of document that lists variables and coding procedures	Yes
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Terms of data access (charter for data provision, format of data, availability delay)	Requests for access to RaDiCo-SEdVasc data (aggregated or individual) will be considered by the Scientific Committee following the submission of a summary of a specific research project, as defined in the Charter of access to resources. Requests should be sent to: <a href="mailto:sedvasc@radico.fr">sedvasc@radico.fr</a>
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Access to aggregated data	Access on specific project only
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Access to individual data	Access on specific project only
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