

# **SURDIAGENE - Genetic Polymorphism in Subjects with Type 2 Diabetes and Longitudinal Analysis of Renal Function: ? SURDIAGENE? Study (SUivi Rénal , DIAbète de type 2 et GENEtique)**

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## General

### Identification

Detailed name Genetic Polymorphism in Subjects with Type 2 Diabetes and Longitudinal Analysis of Renal Function: ?SURDIAGENE? Study (SUivi Rénal , DIAbète de type 2 et GENEtique)

Sign or acronym SURDIAGENE

CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation CPP : N°03.10.19 du 24/11/2003 ; DGS 2003/0530 du 15/12/2003 ; CNIL : en attente

### General Aspects

Medical area Endocrinology and metabolism  
Urology, andrology and nephrology

Health determinants Genetic  
Medicine  
Nutrition

Keywords Health episodes, renal function, cardiovascular, death, population, health system

### Scientific investigator(s) (Contact)

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Unit CIC 1402

Organization CHU Poitiers

## Collaborations

Participation in projects, networks and consortia Yes

## Funding

Funding status Mixed

Details PHRC régional 2000 / PHRC interrégional 2004 / association GEMMS

## Governance of the database

Sponsor(s) or organisation(s) responsible CHU de Poitiers

Organisation status Public

## Additional contact

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Unit Biobank

Organization CHU Poitiers

## Main features

### Type of database

Type of database Study databases

Study databases (details) Cohort study

Database recruitment is carried A selection of health institutions and services

out by an intermediary

Database recruitment is carried out as part of an interventional study

No

Additional information regarding sample selection.

Prospective Inclusion cut-off date: 01/01/2009  
Number of required subjects: [1,000-5,000] Details regarding this number: Initial calculation based on data from genotype frequency less relevant in 2009 compared to 2002 (date of conception).

## Database objective

Main objective

MAIN: to investigate the genetic determinants associated with changes in renal function (changes in creatinine clearance) SECONDARY: 1. - to investigate the genetic determinants associated with changes in urinary albumin excretion 2 - to investigate the genetic determinants associated with other degenerative complications of diabetes (retinopathy, cardiovascular events)

Inclusion criteria

B1. Type 2 diabetes (T2D): Subjects from the SURDIAGENE study with T2D. The distinction between type 1 (TD1) and type 2 (T2D) diabetes is sometimes difficult. We define criteria for T2D diagnosis as: - age at diagnosis is 35 years old or over - apparent insulin-dependence after more than 2 years following diabetes diagnosis - absence of secondary diabetes - absence of ketonuria at diagnosis B2: Longitudinal follow-up: Subjects in the SURDIAGENE study with T2D who are being monitored for diabetes for at least one year, which includes a collection of clinical (blood pressure, weight) and biological data (glycated haemoglobin, serum creatinine, urinary albumin excretion) to analyse the progression of renal disease and other degenerative (retinal and cardiovascular) complications B3. Exclusion criteria is defined as: Subjects who are not permitted to participate in the SURDIAGENE study are subjects who a) fulfil medical criteria for exclusion - do not have diabetes or have T1D or secondary diabetes - are presenting renal disease caused by non-diabetic renal insufficiency (arterial hypertension is not considered as part of the exclusion criteria, except if hypertensive nephropathy precedes discovery of diabetes). - proteinuria at time of diabetes diagnosis - non-diabetic glomerular nephropathy confirmed by renal biopsy - pure vascular nephropathy - confirmed glomerular haematuria or malformed uropathy - chronic interstitial nephritis with history

of pyelonephritis or persistent urinary tract infections - follow-up is less than 1 year b) fulfilling legal exclusion criteria (amended law dated 20th December 1988) - minors - adults protected by law - deprived of liberty - brain-dead - who have not given their written participation consent - women who are pregnant, parturient or breastfeeding - not affiliated to social security

## Population type

Age  
Adulthood (25 to 44 years)  
Adulthood (45 to 64 years)  
Elderly (65 to 79 years)

Population covered  
Sick population

Pathology  
E11 - Type 2 diabetes mellitus

Gender  
Male  
Woman

Geography area  
Local

Detail of the geography area  
Poitiers (Vienne)

## Data collection

### Dates

Date of first collection (YYYY or MM/YYYY)  
12/2003

Date of last collection (YYYY or MM/YYYY)  
2020

### Size of the database

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

Details of the number of individuals  
1200

### Data

Database activity  
Current data collection

Type of data collected  
Clinical data  
Biological data

Clinical data (detail)  
Direct physical measures

## Medical registration

Biological data (detail)	Renal function and glycaemic control: Renal function is based on a measurement of plasma creatinine and estimated glomerular filtration rate (GFR estimated by MDRD and CKD-EPI equations). Diabetic renal insufficiency (initial and during follow-up) is equally characterised by urinary albumin excretion and urinary albumin/urinary creatinine ratio. The level of renal impairment as well as GFR can be established as such. Glycaemic control rate is calculated by measuring glycated haemoglobin (HbA1c).
Presence of a biobank	Yes
Contents of biobank	Serum Plasma DNA Others
Details of biobank content	Other: urine, buffy coat
Health parameters studied	Health event/morbidity Health event/mortality

## Procedures

Data collection method	Interview: input from a paper questionnaire (manual input) with double entry Clinical examinations: handwritten (manual input) with double data entry Biological analysis: direct input
Participant monitoring	Yes
Details on monitoring of participants	Follow-up duration: 10 years
Links to administrative sources	Yes
Linked administrative sources (detail)	CépiDC

## Promotion and access

### Promotion

Link to the document	<a href="http://www.ncbi.nlm.nih.gov/pubmed/?term=SURDIAGENE">http://www.ncbi.nlm.nih.gov/pubmed/?term=SURDIAGENE</a>
Description	List of publications in Pubmed
Link to the document	<a href="#">Surdiagene.pdf</a>

## Access

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

Send request to scientist in charge

Access to aggregated data

Access on specific project only

Access to individual data

Access on specific project only