

# ABOS (Atlas Biologique de l'Obésité Sévère) - Influence of the Glycemic and Ponderal Status on Tissues Gene Expression (Biological Tissue Collection)

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## General

### Identification

Detailed name	Influence of the Glycemic and Ponderal Status on Tissues Gene Expression (Biological Tissue Collection)
Sign or acronym	ABOS (Atlas Biologique de l'Obésité Sévère)
CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation	CPP 06/49, DGS 2006/0307

### General Aspects

Medical area	Endocrinology and metabolism
Health determinants	Genetic Nutrition
Keywords	diabetis, bariatric surgery, obesity

### Scientific investigator(s) (Contact)

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Unit	INSERM U859
Organization	CHRU

### Collaborations

Participation in projects, networks and consortia	Yes
Details	Programme IT-DiabProgramme IMI-DIRECT
<b>Funding</b>	
Funding status	Mixed
Details	CHRU LilleVaiomerIMI - Innovative Medicines Initiative / DIRECT - Diabetes Research on Patient Stratification
<b>Governance of the database</b>	
Sponsor(s) or organisation(s) responsible	CHRU Lille
Organisation status	Public
<b>Additional contact</b>	
<b>Main features</b>	
<b>Type of database</b>	
Type of database	Study databases
Study databases (details)	Longitudinal study (except cohorts)
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	Yes
Details	Performed at individual level
Additional information regarding sample selection.	Liver samples before and at 1 and 5 years after bariatric surgeryMuscle samples before and at 1 year after bariatric surgerySubcutaneous fat samples before and at 3 month and 1 year after bariatric surgeryVisceral fat samples in the great omentum before bariatric surgeryIntestinal samples during gastric by-pass surgeryBlood samples baseline and at at 1, 3 months, 1, 2, 5 years after surgery
<b>Database objective</b>	
Main objective	The objective of this trial is to study the influence of

phenotypic characteristics on gene expression of tissues involved in glucose or/and lipidic metabolism with the creation of a collection of biological samples for research on obesity and diabetes.

#### Inclusion criteria

- ? Age between 18 and 65 years.
- ? Indication of abdominal surgery requiring laparotomy or coelioscopy for obesity surgery, a cholecystectomy, or a parietal surgery.
- ? phenotype corresponding to one of the following four cases
  1. BMI greater than or equal to 35 kg/m<sup>2</sup> and diabetes defined by glucose greater than or equal to 7 mmol/l fasting and/or greater than or equal to 11.1 mmol/l, 120 min after glucose intake (OGTT).
  2. BMI greater than or equal to 35 kg/m<sup>2</sup> and IGT defined by a higher than 6 mmol/l and less than 7 mmol/l fasting blood glucose, and/or greater than 7.8 mmol/l and less than 11.1 mmol/l, 120 min after glucose intake (OGTT).
  3. BMI greater than or equal to 35 kg/m<sup>2</sup> and with normal glucose tolerance defined by a blood glucose of less than or equal to 6 mmol/l and/or less than or equal to 7.8 mmol/l, 120 min after glucose intake (OGTT).
  4. BMI inferior to 27 kg/m<sup>2</sup> and with normal glucose tolerance defined by a blood glucose of less than or equal to 6 mmol/l and/or less than or equal to 7.8 mmol/l, 120 min after glucose intake (OGTT) (control group).
  5. BMI between 27 and 35 27 kg/m<sup>2</sup> and with normal glucose tolerance defined by a blood glucose less than or equal to 6 mmol/l and/or less than or equal to 7.8 mmol/l, 120 min after glucose intake (OGTT) (control group).

#### 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)

Population covered      General population

Gender      Male  
              Woman

Geography area      National

Detail of the geography area      France

## Data collection

### Dates

Date of first collection (YYYY or MM/YYYY) 06/2006

### Size of the database

Size of the database (number of individuals) [500-1000[ individuals

Details of the number of individuals 850

### Data

Database activity Current data collection

Type of data collected  
Clinical data  
Declarative data  
Biological data

Clinical data (detail)  
Direct physical measures  
Medical registration

Details of collected clinical data  
Prospective assessment of clinical features before and after bariatric surgery: weight, BMI, blood pressure

Declarative data (detail)  
Paper self-questionnaire  
Face to face interview  
Phone interview

Details of collected declarative data  
Prospective assessment of clinical features before and after bariatric surgery: weight, BMI, blood pressure

Biological data (detail)  
Prospective assessment of biological features before and after bariatric surgery: alanine aminotransferase (ALT), gamma-glutamyl transferase (GGT), prothrombin time, platelets, serum triglyceride, cholesterolemia, fasting blood glucose, fasting insulin, blood glucose and insulin 120 minutes after ingestion of glucose (oral glucose tolerance test)

Presence of a biobank Yes

Contents of biobank  
Whole blood  
Serum  
Plasma  
Blood cells isolated

Tissues  
DNA

Details of biobank content

Liver samples before and at 1 and 5 years after bariatric surgery  
Muscle samples before and at 1 year after bariatric surgery  
Subcutaneous fat samples before and at 3 month and 1 year after bariatric surgery  
Visceral fat samples in the great omentum before bariatric surgery  
Intestinal samples during gastric by-pass surgery  
Blood samples baseline and at at 1, 3 months, 1, 2, 5 years after surgery

Health parameters studied

Health event/morbidity  
Health event/mortality

## Procedures

Data collection method

before and after bariatric surgery

Quality procedure(s) used

monitoring promoteur

Participant monitoring

Yes

Details on monitoring of participants

Prospective assessment of clinical and biological features before and after bariatric surgery  
Liver samples before and at 1 and 5 years after bariatric surgery  
Muscle samples before and at 1 year after bariatric surgery  
Subcutaneous fat samples before and at 3 month and 1 year after bariatric surgery  
Visceral fat samples in the great omentum before bariatric surgery  
Intestinal samples during gastric by-pass surgery  
Blood samples baseline and at at 1, 3 months, 1, 2, 5 years after surgery

Links to administrative sources

Yes

## Promotion and access

### Promotion

Link to the document

<http://tinyurl.com/Hal-ABOS>

Description

Liste des publications dans HAL

Link to the document

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

Description

Liste des publications dans Pubmed

### Access

Terms of data access (charter for data provision, format of

Contact the investigator

data, availability delay)

Access to aggregated data

Access on specific project only

Access to individual data

Access on specific project only