

# DEFI-ALPHA - Cohort of Children with Alpha 1 Antitrypsin Deficiency.

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## General

### Identification

Detailed name	Cohort of Children with Alpha 1 Antitrypsin Deficiency.
Sign or acronym	DEFI-ALPHA
CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation	CCTIRS n°10.181 (08/04/2010), CNIL n°910279 (DR-2010-328, 29/10/2010)

### General Aspects

Medical area	Gastroenterology et hepatology
Health determinants	Genetic
Keywords	occurrence of complications, ultrasound/Doppler ultrasound, FibroScan, fibrosis test, endoscopy and oesophageal video capsule, platelets, transaminase and gamma-GT, Health episodes, factors, liver transplantation

### Scientific investigator(s) (Contact)

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Unit	Service d'Hépatologie, Gastroentérologie et Nutrition,
Organization	HCL - HOPITAL FEMME-MERE-ENFANTDE LYON

### Collaborations

Participation in projects,  
networks and consortia

Yes

## Funding

Funding status

Mixed

Details

Laboratoires LFB, PHRC

## Governance of the database

Sponsor(s) or organisation(s)  
responsible

CHU Lyon (L. Restier)

Organisation status

Public

## Additional contact

Name of the contact

MIRON RESTIER

Surname

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Unit

Service d'Hépatologie, Gastroentérologie et  
Nutrition,

Organization

HCL - HOPITAL FEMME-MERE-ENFANTDE LYON

## 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.

Retrospective Other bodies active in creating this  
cohort: CHU and CHG, parents' association  
(Association ADAAT ALPHA 1 France, French

## Database objective

**Main objective**

General objective: To investigate prognostic hepatic factors in A1AT deficient children. Investigation of factors associated with onset of complications: portal hypertension and its complications, severe liver failure, liver transplantation, abnormalities during respiratory function exploration. Secondary objectives: - To organise an active homogenised cohort follow-up. - To ensure that new cases are recorded. - To create a reference network in order to homogenise treatment.

**Inclusion criteria**

Children with DA1AT born after 1989, regardless of phenotype. DA1AT is defined as an alpha-1 antitrypsin deficiency lower than 1,1 g/l, and type ZZ or SZ MZ, MS, SS, detected by participating centres (service follow-up, or detected by corresponding neonatal services, family surveys, patient associations or dosage laboratories in the geographical area of participating services).

## Population type

**Age**

Early childhood (2 to 5 years)  
Childhood (6 to 13 years)  
Adolescence (13 to 18 years)

**Population covered**

Sick population

**Pathology**

XI - Diseases of the digestive system

**Gender**

Male  
Woman

**Geography area**

National

**Detail of the geography area**

Multicentric cohort throughout France (15 centres)

## Data collection

### Dates

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

09/2008

## Size of the database

**Size of the database (number of individuals)**

< 500 individuals

Details of the number of individuals	180
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## Data

Database activity	Current data collection
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Type of data collected	Clinical data Paraclinical data Biological data
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Clinical data (detail)	Direct physical measures Medical registration
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Paraclinical data (detail)	Biochemistry and genetics, ultrasound, FibroScan, and medical imaging
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Biological data (detail)	Clinical records
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Presence of a biobank	Yes
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Contents of biobank	Serum
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Details of biobank content	Serum bank
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Health parameters studied	Health event/morbidity Health event/mortality
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## Procedures

Data collection method	Interview: Direct input Clinical examination: Direct input Biological analysis: Direct input
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Participant monitoring	Yes
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Monitoring procedures	Monitoring by crossing with a medical-administrative database
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Details on monitoring of participants	Until 18 years of age
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Followed pathology	XI - Diseases of the digestive system
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Links to administrative sources	No
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## Promotion and access

### Promotion

Link to the document

[Ruiz\\_et\\_al-2019-Liver\\_International.pdf](#)

Description

Pathologies hépatiques en rapport avec le déficit en alpha1-antitrypsine dans une cohorte d'enfants en France

## Access

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

To be decided if data may be used by academic teams Eric Chevet, INSERM U1053, Université Bordeaux Ségalen Access conditions: for European cohort collaboration (Dino Hadzic, nedim.hadzic@kcl.ac.uk), for an adult cohort with DA1AT (Gabriel Thabut : g.thabut@bch.ap-hop-paris.fr) To be decided if data may be used by industrial teams Access for potentially interested LFB laboratories

Access to aggregated data

Access on specific project only

Access to individual data

Access on specific project only