

# Cohort CP - Longitudinal Study of a Children Population With Bilateral Severe Cerebral Palsy: Incidence and Evolution of Orthopaedic Complications and Pain Related With These Complications.

Head :Poirot Isabelle, Service « L'Escale », Rééducation Fonctionnelle Infantile

Last update : 02/07/2017 | Version : 1 | ID : 5282

## General

### Identification

Detailed name Longitudinal Study of a Children Population With Bilateral Severe Cerebral Palsy: Incidence and Evolution of Orthopaedic Complications and Pain Related With These Complications.

Sign or acronym Cohort CP

CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation CNIL : 910232

### General Aspects

Medical area Disability/handicap  
Neurology  
Pediatrics  
Physical medicine and rehabilitation  
Radiology and medical imaging

Health determinants Lifestyle and behavior  
Social and psychosocial factors

Keywords pain ; child ;cohort ; orthopaedic complications ; epidemiology ; cerebral palsy

### Scientific investigator(s) (Contact)

Name of the director Poirot

Surname Isabelle

Address Hôpital-Femme-Mère-Enfant - Aile A1 59, boulevard Pinel 69677 BRON

Phone + 33 (0)4 78 86 16 64

Email	isabelle.poirot@chu-lyon.fr
Unit	Service « L'Escale », Rééducation Fonctionnelle Infantile
Organization	Groupement Hospitalier Est, Hospices Civils de Lyon

## Collaborations

Participation in projects, networks and consortia Yes

Details Investigator annual meeting during the SFERHE study days (Société Francophone d'Etude et de Recherche sur les Handicaps de l'Enfance)

## Funding

Funding status Mixed

Details Programme Hospitalier de Recherche Clinique (PHRC) ; La Fondation Motrice ; TFWA Care; Association Lyonnaise de Logistique Post-Hospitalière (ALLP) ; SFERHE Funding (Société Francophone d'Etude et de Recherche sur les Handicaps de l'Enfance)

## Governance of the database

Sponsor(s) or organisation(s) responsible Groupement Hospitalier Est, Hospices Civils de Lyon

Organisation status Public

Presence of scientific or steering committees No

## 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 selection of health institutions and services

Database recruitment is carried out as part of an interventional No

## study

Additional information regarding sample selection.

Patients are enrolled among University-affiliated Hospital (CHU), General Hospital (CH), medicoeducational institutes (IME), Institutes for motor skills development (IEM), Center for motor skills development (CEM), Specialized home education and healthcare service (SESSAD), Centres for early medicosocial action (CAMPS). To Avoid selection bias, investigator was asked to enrolled all eligible patient of their services. Enrollement is currently on-going.

## Database objective

Main objective

The primary objective is to establish the incidence of orthopaedic complications (scoliosis and hip joint) depending on patients' age. Secondary objectives are to describe the sequences over time of these complications and the related pain, to explore the impact of nutrition, surgery, asymmetric postures and environmental factors, and to describe the medical and rehabilitative follow-up of these patients.

Inclusion criteria

- Children aged from 2 to 10 years at inclusion,
- with bilateral cerebral palsy (Brain injury or cerebral abnormalities occurred before 2 years of age),
- Grade IV or V of the GMFCS.
- nonprogressive disease

## Population type

Age

Early childhood (2 to 5 years)  
Childhood (6 to 13 years)  
Adolescence (13 to 18 years)  
Adulthood (19 to 24 years)

Population covered

Sick population

Pathology

G80 - Cerebral palsy

Gender

Male  
Woman

Geography area

National

Detail of the geography area

France and DOMs (Réunion Island, Polynesia & Martinique)

## Data collection

## Dates

Date of first collection (YYYY or MM/YYYY) 09/2009

Date of last collection (YYYY or MM/YYYY) on-going

## Size of the database

Size of the database (number of individuals) < 500 individuals

Details of the number of individuals 311 (07/02/2017)

## Data

Database activity Current data collection

Type of data collected Clinical data  
Paraclinical data

Clinical data (detail) Direct physical measures  
Medical registration

Paraclinical data (detail) Radiological exam (hips & spine radiological measurement)

Presence of a biobank No

Health parameters studied Health event/morbidity  
Health event/mortality

## Procedures

Data collection method Data are collected in Case Reported Form (CRF) by study investigators during annual patient visits. Those visits are included in the patient usual follow-up. Collected data are based on parents questioning, patient clinical exam, child radiographies and medical record if applicable (medical history, clinical and paraclinical data...)

Participant monitoring Yes

Details on monitoring of participants Each patient follow-up last 10 years with 1 visit / year. Before each annual visit, a new CRF is sent to study investigators. The same CRF model is used for the 10 visits)

Links to administrative sources No

## Promotion and access

### Promotion

Link to the document	<a href="http://www.em-consulte.com/en/article/855582">http://www.em-consulte.com/en/article/855582</a>
Description	Physiopathological hypothesis of hip excentration in cerebral palsy, from a field experience
Link to the document	<a href="https://www.ncbi.nlm.nih.gov/pubmed/24120244">https://www.ncbi.nlm.nih.gov/pubmed/24120244</a>
Description	Rehabilitation of 190 non-ambulatory children with cerebral palsy in structures of care or in liberal sector.

### Access

Terms of data access (charter for data provision, format of data, availability delay)	<ul style="list-style-type: none"><li>- Approach to access the completed database : not yet discussed</li><li>- Approach to access a part of the results: 2 published articles , 1 submitted article , 1 article currently being drafted</li></ul>
Access to aggregated data	Access on specific project only
Access to individual data	Access on specific project only