

EREMI - Longitudinal study in patients aged 0 to 15 years hospitalised for at least 3 days after receiving at least one drug: risk of adverse drug reactions associated with off-label/unlicensed prescriptions

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| General | |
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| Identification | |
| Detailed name | Longitudinal study in patients aged 0 to 15 years hospitalised for at least 3 days after receiving at least one drug: risk of adverse drug reactions associated with off-label/unlicensed prescriptions |
| Sign or acronym | EREMI |
| CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation | MMS/MTE/AR1411279 |
| General Aspects | |
| Medical area | Pediatrics |
| Pathology (details) | Adverse drug reactions |
| Health determinants | Iatrogenic Medicine |
| Keywords | drug, ADEs, Adverse drug episodes, adverse effect, market authorisation, prescription, Hospitalisation, MA, child, adolescent |
| Scientific investigator(s) (Contact) | |
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| Unit | Clinical Investigation Centre Hospices Civils de Lyon /Inserm EPICIME (Epidemiology, Pharmacology, Clinical Research and Medical information, Mother and Child) UMR 5558/CNRS |
| Organization | Hospices Civils de Lyon (HCL) |

Collaborations

| | |
|---|-----|
| Participation in projects, networks and consortia | Yes |
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| Details | CIC Pédiatrique - Hôpital Femme-Mère-Enfant, Hospices Civils de Lyon (HCL) / CIC pédiatrique - Hôpital Robert Debré, Assistance publique ? Hôpitaux de Paris (AP-HP) |
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Funding

| | |
|----------------|--------|
| Funding status | Public |
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| Details | ANSM Financing 2012 - Axis 2: Analysis of off-label drug use |
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Governance of the database

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| Sponsor(s) or organisation(s) responsible | Hôpital Femme-Mère-Enfant, Hospices Civils de Lyon (HCL) |
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|---------------------|--------|
| Organisation status | Public |
|---------------------|--------|

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|---|---|
| Sponsor(s) or organisation(s) responsible | Hôpital Robert Debré, Assistance publique ? Hôpitaux de Paris (AP-HP) |
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| Organisation status | Public |
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| Presence of scientific or steering committees | Yes |
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Additional contact

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| Name of the contact | Nguyen |
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Unit

UMR5558/LBBE

Organization

Hospices Civils de Lyon/UCBL

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
A population file

Database recruitment is made on the basis of:

Medication(s) taken

Database recruitment is carried out as part of an interventional study

No

Additional information regarding sample selection.

Automated prospective extraction of drug administrations from the HCL Hospital Information System / Active and spontaneous detection of adverse drug events

Database objective

Main objective

To compare the probability of occurrence of an adverse drug reaction (ADR) after a licensed

prescription drug versus the probability of occurrence of an ADR after prescribing a drug off-label or unlicensed in patients aged 0-15 years hospitalized at least 3 days

Secondary objectives:

? Compare the proportion of pediatrics inpatients presenting at least one ADR among inpatients with at least one off-labels or unlicensed prescription drug with the proportion of inpatients presenting at least one ADR among inpatients with all licensed prescription drugs

? To describe, in terms of marketing autorisation and indications, the medicinal products prescribed by paediatric age group.

? Identify the factors influencing the risk of developing ADRs after prescribing a drug

? To estimate the seriousness and avoidability of ADRs

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| Inclusion criteria | Children from 0 to 15 years old [0 ; 15[(including term and preterm newborn infants). Hospitalised for at least 3 days. Receiving at least one medication |
| Population type | |
| Age | Newborns (birth to 28 days) Infant (28 days to 2 years) Early childhood (2 to 5 years) Childhood (6 to 13 years) Adolescence (13 to 18 years) |
| Population covered | Sick population |
| Pathology | Y40-Y59 - Drugs, medicaments and biological substances causing adverse effects in therapeutic use |
| Gender | Male Woman |
| Geography area | Local |
| Detail of the geography area | Hôpital Femme-Mère-Enfant, Hospices Civils de Lyon (HCL) / Hôpital Robert Debré, Assistance publique ? Hôpitaux de Paris (AP-HP) |
| Data collection | |
| Dates | |
| Date of first collection (YYYY or | 2013 |

MM/YYYY)

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|---|------|
| Date of last collection (YYYY or MM/YYYY) | 2016 |
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Size of the database

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| Size of the database (number of individuals) | [1000-10 000[individuals |
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| Details of the number of individuals | 6227 |
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Data

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| Database activity | Current data collection |
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| Type of data collected | Clinical data Declarative data Paraclinical data Biological data Administrative data |
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| Clinical data (detail) | Direct physical measures Medical registration |
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| Details of collected clinical data | Nature and clinical context of ADEs |
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| Declarative data (detail) | Face to face interview Phone interview |
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| Details of collected declarative data | Spontaneous reporting of ADEs by medical teams / Aid to reporting ADEs actively detected by the EREMI team |
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| Biological data (detail) | Creatinine level |
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| Administrative data (detail) | Admission dates, Duration of stay. Extractions from the hospital information system (prescriptions, doses, anthropomorphic and biological data) |
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| Presence of a biobank | No |
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| Health parameters studied | Health event/morbidity Health event/mortality Health care consumption and services |
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| Care consumption (detail) | Hospitalization Medicines consumption |
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Procedures

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| Data collection method | During hospitalisation |
| Quality procedure(s) used | Methodology: HCL Paediatric Clinical Investigation Centre; Biostatistics: Biostatistics department of HCL/UMR CNRS 5558; Management of the database: ClinInfo, Lyon |
| Participant monitoring | Yes |
| Monitoring procedures | Monitoring by contact with the participant (mail, e-mail, telephone etc.) Monitoring by contact with the referring doctor Monitoring by crossing with a medical-administrative database |
| Details on monitoring of participants | Duration of monitoring of patients who have had an ADE after discharge: 1 month |
| Links to administrative sources | Yes |
| Linked administrative sources (detail) | PMSI |
| Promotion and access | |
| Promotion | |
| Link to the document | http://adc.bmj.com/content/99/Suppl_2/A62.2.abstr.act?sid=0943db08-e27a-4da7-bb7a-909ec1a19723; http://www.sciencedirect.com/science/article/pii/S0929693X14719591; http://www.sciencedirect.com/science/article/pii/S0929693X1472130X; http://www.sciencedirect.com/science/article/pii/S0929693X14721311; http://www.sciencedirect.com/science/article/pii/S0929693X14722432 |
| Other information | NCT02852590, protocol available on clinicaltrial.gov (https://clinicaltrials.gov/ct2/show/NCT02852590?term=EREMI&rank=1) |
| Access | |
| Presence of document that lists variables and coding procedures | Yes |
| Terms of data access (charter for data provision, format of data, availability delay) | Request from M Behrouz.Kassai (behrouz.kassai-koupai@chu-lyon.fr or Mrs Kim An Nguyen: kim-an.nguyen@chu-lyon.fr |
| Access to aggregated data | Access on specific project only |

Access to individual data

Access on specific project only