Psy-COH - French Cohort of Three Major Psychiatric disorders: Schizophrenia, Bipolar disorders, and Asperger syndrome

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General

Identification

Detailed name	French Cohort of Three Major Psychiatric disorders: Schizophrenia, Bipolar disorders, and Asperger syndrome
Sign or acronym	Psy-COH

General Aspects

Medical area	Psychology and psychiatry
Health determinants	Addictions Genetic Geography Social and psychosocial factors
Others (details)	Schizophrenia, Bipolar disorders, ans Asperger syndrome

Scientific investigator(s) (Contact)

Name of the director	Leboyer
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Organization	Fondation FondaMental - UPEC - Inserm

Collaborations

Funding

Funding status	Mixed
Details	ANR "Investissements d'avenir", Sanofi

Governance of the database

Sponsor(s) or organisation(s) responsible	Fondation FondaMental

Organisation status	Private
Sponsor(s) or organisation(s) responsible	Université Paris-est-Créteil (UPEC) - Université Pierre et Marie Curie (UPMC)
Organisation status	Public

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 study	No

Database objective

Main objective	1. Improve our ability to offer early diagnosis and prevention through identification of valid biomarkers/ bio-signatures of three major mental disorders 2. Identify trajectories of patients moving across stages of disorder and behavioural indicators and biomarkers predecting risk and prognosis 3. Estimate utilization of services, healthcare, societal costs and quality of life of patients suffering from these three disorders 4. Allow national and international academic collaborators or industry partners to access cohort or data collected, to accelerate scientific progress.
Inclusion criteria	Young patients -between 16 and 35 years old - with psychotic disorders (bipolar disorders dans schizophrenia), focussing on first-episodes, as well as neuro-developmental disorders (autism without mental retardation, or Aspeger, aged 3 years and upwards)

Population type

Age	Adolescence (13 to 18 years) Adulthood (19 to 24 years) Adulthood (25 to 44 years)

	Adulthood (45 to 64 years)
Population covered	Sick population
Gender	Male Woman
Geography area	National
Detail of the geography area	Patients will be recruited in the expert centers involved in the french network. This network is composed of 8 bipolar disorders (Bordeaux, Créteil, Grenoble, Marseille, Montpellier, Paris, Strasbourg, Versailles), 8 for schizophrenia (Clermont-Ferrand, Créteil, Lyon, Marseille, Montpellier, Paris, Strasbourg, Versailles) and 4 for Asperger syndrome (Bordeaux, Créteil, Paris, Toulouse)

Data collection

Dates

Date of first collection (YYYY or MM/YYYY)	2012

Size of the database

Size of the database (number of individuals)	[1000-10 000[individuals
Details of the number of individuals	We aim to recruit 1000 bipolar, 800 schizophrenic, and 200 Asperger patients.

Data

Database activity	Current data collection
Type of data collected	Clinical data Declarative data Paraclinical data Biological data
Clinical data (detail)	Direct physical measures Medical registration
Declarative data (detail)	Paper self-questionnaire
Paraclinical data (detail)	Brain imaging
Biological data (detail)	NFS, blood gases, electrolytes, glycemia, lipid profile, normal liver chemistry, thyroid profile, albumin, total protein, urea, uric acid, creatinine, phosphorus, iron, serum calcium level,

	psychotropic dosages, ...
Presence of a biobank	Yes
Contents of biobank	Whole blood Serum Plasma DNA DNAc/RNAm
Details of biobank content	The collections will be constituted of different bio-samples all derived from blood: DNA for genetic and epigenetic studies, RNA and lymphocytes for transcriptomics, serum for proteomics and metabolomics analyses. Blood sampling will be performed first at inclusion for each of the 2000 expected subjects, and then on a yearly basis during the clinical follow-up. On the contrary to others specimen, lymphoblastoid cell lines will be established only once at first inclusion. Blood will be collected in tubes supplemented with EDTA for DNA extraction, with lithium heparin for lymphocyte isolation, in silicone costed for serum and in PAXgene collection tubes for RNA extraction
Health parameters studied	Health event/morbidity Health care consumption and services Quality of life/health perception
Care consumption (detail)	Hospitalization Medical/paramedical consultation Medicines consumption

Procedures

Data collection method	An anomized e-medical file has been created, that allow data recording and sharing between centres. Three e-medical files (e-Fondamental) allow extensive psychaitric, somatic and cognitive assesments, conducted by trained psychiatrists, psychologists and nurses. Three e-medical files (e-bipolar, e-schizo, and e-asperger) have already been built for assesment and follow-up of each disorder which allow the implementation of a personalized approach to the care and treatment of each patient, shared with the referring clinicians (MG and psychiatrists). In addition to its clinical remits, the network has begun to develop large-scale datasets along with biobanks or repositories, linked with platforms for genotyping or brain-imaging.
Participant monitoring	Yes

Details on monitoring of participants	We plan to follow-up during ten years the impact of environemental factors (such as stress, migration, urban condition, cannabis), and to use innovative medical devices to examine objective parameters that might be associated with risk and relapse such as indicators of circadian rhythm (actimetry, web based diary, as well as body monitor), but also indicators of somatic disorders (weight, biological tests...). Blood sampling will be performed every year to follow up native DNA and RNA to explore the possible changes of epigenetic markers during follow-up as well as immuno-inflammation parameters measured in serum
Links to administrative sources	No

Promotion and access

Promotion

Link to the document	http://www.fondation-fondamental.org/

Access

Terms of data access (charter for data provision, format of data, availability delay)	Psy-COH will allow data access to academic as well as industrial partners, thus giving birth to numerous innotiative projects
Access to aggregated data	Access on specific project only
Access to individual data	Access on specific project only