



**Biostatistician – post doctoral position
Pharmacoepidemiology research Field**

Key words: statistics, epidemiology, pharmacoepidemiology, healthcare databases, European FP7 project, asthma.

We are looking for a biostatistician to join our research team at Lyon Pharmacoepidemiology unit and contribute to the analysis and dissemination of results from ASTROLAB, one of our innovative epidemiology research projects.

The project

ASTRO-LAB is a 4-year European project (FP7) coordinated by our Unit and conducted together with 6 other partners in 4 European countries. It aims to bring a new knowledge on the risk-benefit ratio of LABA inhalers in asthma treatment in routine care, via an innovative design that combines prescription and claims data, with self-reported data from patients and clinicians. The data are collected within a longitudinal prospective cohort study, where patients (adults and children) from 2 European countries are followed up for a period of up to 24 months. The innovative cohort design has produced a complex and unique dataset from different sources. The project has started in December 2011 and data collection is now ongoing, with first data extractions already available for analysis.

The team

Lyon Pharmacoepidemiology Unit, supervised by Dr Eric Van Ganse, is affiliated to the Research unit, LBBE (Biometry and evolutionary biology), UMR 5558, linked to the CNRS and the Claude Bernard Lyon 1 University (<http://lbbe.univ-lyon1.fr>). Lyon Pharmacoepidemiology Unit focuses their main research areas on drug utilization, adherence, effectiveness, safety and benefit risk ratio of drugs in real life settings, using health insurance data, electronic health records and patient reported outcomes.

The Mission

In collaboration with other team members (project manager, data-manager and epidemiologist) and European partners, the biostatistician will be required to perform a range of analysis tasks, as follows:

Responsibilities:

- Analysis preparation :
 - o Choice of methodological approach
 - o Statistical analysis plan writing
 - o Databases extraction plan
 - o Quality check of data
 - o Linkage between different databases

- Analysis realization:
 - o Development/implementation of algorithms for adherence measurement
 - o Safety analyses via comparisons, notably between treatment exposure groups and in specific subgroups.
 - o Modelling of population-level impact of serious asthma events, and of changes in access to therapy
- Final report writing, publications and dissemination (international meetings)
- Optional: teaching activities depending on candidate profile, experience and career plan.

Education:

Higher education in Biostatistics (Doctoral thesis, Master, Engineer diploma...). The proposed job position can be considered as post-doctoral fellow, depending on candidate profile.

Scientific skills:

Good understanding of large databases and of epidemiology.

Programming skills with main data management and statistical tools, in particular SAS.

Experience:

Previous participation in epidemiology projects (data analysis plans, analyses, reports, dissemination). Any previous experience on healthcare database will be appreciated.

Languages:

Fluent command of written and spoken English and at least basic French.

Personal skills:

Ability to work autonomously and proactively.

Ability to collaborate efficiently with other team members and European partners.

Employment Conditions:

Salary: **NET** monthly salary between 1800 and 2000 euros according to experience

Type of contract: Temporary

Duration: one-year fixed term contract renewable one year

Expected starting date: between January and March 2014

Location : Lyon, Rhone-Alpes Area, France –Metro D Laennec station

How to apply: e-mail.

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