**Post-doc position: Develop and validate clinical prediction models for occupational asthma**

- **Keywords**: prediction model, validation methods, decision curve analysis, knowledge transfer
- **Location**: CIUSSS du Nord-de-l’Île-de-Montréal (CIUSSS NIM) site Hôpital du Sacré-Cœur de Montréal, Canada
- **Supervisors**: Dr. Eva Suarthana (Université de Montréal; CIUSSS NIM) and Dr. Paramita Saha-Chaudhuri (McGill University)
- **Duration**: 24-30 months
- **Expected start time**: Winter 2020.
- **Salary**: $ 36,000 – 45,000 CAD per year, depending on training and relevant research experience

**Training opportunity**
We are offering the successful candidate an excellent opportunity to fully participate in the scientific aspects of this international project, including data analysis, manuscripts and grant writings, and presenting in scientific meetings.

**Requirements**
The ideal candidate:
- must have obtained a PhD degree in epidemiology, population health, or biostatistics with excellent grades;
- is required to have a very strong background in developing and validating clinical prediction models as well as evaluating the clinical utility of the models using decision curve analysis;
- must be capable of working with SPSS and R program;
- must have excellent writing skills;
- must be Bilingual (English and French);
- have excellent organizational and interpersonal skills;
- have the ability to work independently as well as in a team;
- should demonstrate commitment and a critical mind.

Note that previous experience with knowledge transfer is a plus, but not essential.

**Scientific context and job description**
Occupational asthma (OA) is the most common chronic occupational respiratory diseases in industrialized countries and second most common in developing countries. Worldwide, especially in developing countries, OA remains under-recognized and poorly diagnosed. In a pilot project Dr. Suarthana and team had developed clinical model for diagnosing OA in workers exposed to high-molecular-weight (HMW) agents (mostly proteins, e.g. flour, animal allergens, latex agents) in Quebec data and validated it in European data. It is now available on Calculate by QxMD for iOS, Android and web at: https://qxcalc.app.link/occ-asthma-hmw. Dr. Suarthana and team had recently received grant from the Canadian Institute for Health Research to develop and validate similar models in workers exposed to low-molecular weight (LMW) agents (mostly chemical agents, e.g. isocyanates, red cedar). For knowledge transfer, the final model will be transformed into calculator and made available in Web and mobile versions.

**Candidate should send by email to eva.suaarthana@umontreal.ca, the following documents in one PDF:**
- Academic CV with an established research record and thesis reports
- Covering letter stating why you consider yourself suitable for the post (maximum 2 pages A4)
- Provide names and contact of two referees. References do not need to be included with the application, but short-listed applicants will need to send 2 reference letters before interview.

**Closing date for application**: Applications received before January 17th, 2020 will be given priority, but applications will be accepted until the position is filled.