Building tomorrow’s PRM with today’s new tools?

Location: Saint Etienne, Campus Santé Innovations, Faculté de Médecine (voir plan)

Organisation: Grégoire Prum, Perrine Séguin, Alexandre Bertholon, Etienne Ojardias, Pascal Giraux, Vincent Gautheron, Olivier Rémy Néris, Pierre Alain Joseph

When thinking about clinical research, we primarily have in mind classical designs and mostly randomized double-blind trials with numerous subjects as a gold standard to produce high-quality evidence-based medicine. These kind of studies are difficult to manage, costly and barely compatible with the duration of a PMR residency.

New tools are available which allow to extract significant and valuable results from very small population of patients. On the opposite, the new generation of PRM will also be able to explore great opportunities offered by “big data” collections in health. Then, the aim of this International Teaching Program day is to give an overview of the methods that can help the resident to successfully build and conduct meaningful projects implying single case or small-n series, or conversely, to investigate the growing field of big data in PRM, and more generally to understand some studies and publications.

Location: Saint-Etienne, Campus Santé Innovations, Faculté de Médecine, Amphi D
**Conferences (October the 12th):** Faculté de Médecine Jacques Lisfranc / Amphi D

**09:00 Welcome coffee**

**09:30 Introduction**
09:30 Population size in clinical research: how small and big data offer new opportunities in clinical research for PMR residents?
   Pr Pascal Giraux et Perrine Séguin (Saint Etienne)

**09:45 Part I: designing and conducting high quality studies with few cases**
09:45 What are single case and small experimental designs? Some bases and examples as the Single-Case Experimental Design.
   Dr Agata Krasni Pacini (Strasbourg)

10:30 Why and how optimizing the scientific impact of your case studies?
   Pr Yves Rossetti (Lyon)

**11:15 Coffee Break**

11:30 The editor point of view regarding single case and small-n experiments
   Pr Dominic Perennou (Grenoble)

12:15 Workshop: practical examples - Paradoxical effect of zolpidem in patient with disorder of consciousness: mechanism of action
   Maxime Cheminon (Lyon)

**13:00 Lunch**

**14:00 Part II: big data in PMR: present and perspectives**
14:00 Cognitive computing in Health and social care: the IBM experience
   Stephane Deparis (IBM research Lab - Dublin)

15:00 How to explore PMSI database to study patient clinical pathway?
   Pr. Vincent Augusto (St-Etienne, MINES)

**16:00 Break**

16:15 Prevalence of self-reported stroke and disability in the French adult population using the “the Disability Health survey”
   Dr Alexis Schnitzler (Paris)

16:45 Analyzing needs of PMR for patients with ViaTrajectoire and PMSI
   Dr Paul Calmels (Saint Etienne)

**17:30 General Assembly AJMER**

**Workshops/Conferences (October, 13 - 14 – SOFMER Congress, Centre des Congrès)**

Echographie : 13 octobre 15h-16h30 Pr Jean-Baptiste Pialat (Lyon)

Objets connectés – applications médicales : 14 octobre 18h-18h50 Pr Xavier de Boisseyon (Toulouse)
Anatomie de la Marche : 15 octobre 8h-8h50 Pr Thierry Haumont (Lyon)