Critical appraisal of medical research (1.5 ECTS) for doctoral students and other researchers

In this course, we present different study designs in medicine and different gold standard methods to evaluate study quality. The purpose of this training is to help participants to evaluate research and its quality to support their own research work.

Course will include 18 hours of lectures and 14 hours of guided group work sessions (7 x 2 hours) where we are reading articles or studies, which participants have selected and practice critical evaluation of the studies.

Place: To be announced later

Teachers: Jani Ruotsalainen, Jos Verbeek, Nina Rautio

Registration at the latest 30.9.2019 to nina.rautio@oulu.fi

Programme

Lectures

7.10., 15.15-16.45 Introduction to study designs
8.10., 15.15-16.45 Introduction to case-control and cohort studies
9.10., 15.15-16.45 Introduction to randomized clinical trials
10.10., 9.00-10.30 Cochrane, systematic reviews and the meaning of it all
      11.30-13.00 RCT as the best design to evaluate interventions, including hands-on training in randomisation
      13.30-15.00 Observational studies, as close to an RCT as it can get, including animal and volunteer studies
11.10., 9.00-10.30 Systematic Review basics: PICO/PECO, search
      11.30-13.00 Risk of Bias assessment of RCT and observational study including hands-on training
      13.30-15.00 Good and bad reviews and the use of AMSTAR

Guided group work sessions