

# Course: Clinical Research in Health and Medical Sciences

**Graduate PhD-program:** Basic and Clinical Research in Musculo-Skeletal and Oral Sciences (MUSCOS).

**Course directors:** Thomas Bandholm, Associate Professor, PhD and Kristian Thorborg, Associate Professor, PhD, Physical Medicine & Rehabilitation Research – Copenhagen (PMR-C), Hvidovre Hospital, Department of Clinical Medicine, University of Copenhagen, Copenhagen Denmark.

**Date:** 8/5-10/5-2017.

**Place:** Clinical Research Centre (056), Forsknings- og Undervisningsbygningen, room 4, Hvidovre Hospital, Kettegårds Allé 30, DK-2650 Hvidovre.

**Course secretary:** Henriette Møller, mail: henriette.moeller.02@regionh.dk, phone: 38 62 15 01.

## Program

### Day 1 (8/5-2017)

- 09.00-09.30 Introduction (presentation of participants), Thomas Bandholm and Kristian Thorborg
- 09.30-10.30 Statistics and fraudulent behavior, Robin Christensen
- 10.30-11.00 Break
- 11.00-12.30 Principles of sample size calculations, Robin Christensen
- 12.30-13.15 Lunch
- 13.15-14.00 Research questions, appropriate study designs, and hierarchy of evidence, Marius Henriksen
- 14.00-14.30 Break
- 14.30-15.15 Superiority, equivalence, and non-inferiority studies, Marius Henriksen
- 15.15-15.30 Break
- 15.30-16.15 Pilot and feasibility studies, Morten Tange Kristensen
- 16.15-16.45 Presentations by participants, Kristian Thorborg and Thomas Bandholm
- 15.15: XX
- 15.30: XX
- 16.45 End of Day 1

## Day 2 (9/5-2017)

- 09.00-09.45 Clinimetric properties of outcome measures, Kristian Thorborg
- 09.45-10.30 Finalizing the protocol and registering the study, Thomas Bandholm
- 10.30-11.00 Break
- 11.00-11.45 Sampling, randomization and blinding in real life, Michael Rathleff
- 11.45-12.30 Lunch
- 12.30-13.15 Recruiting patients: formalities and practical aspects, Thomas Linding Jakobsen
- 13.15-14.00 Database considerations, Steen Ladelund
- 14.00-14.30 Break
- 14.30-15.15 Presentations by participants, Thomas Bandholm and Kristian Thorborg
- 14.30: XX
- 14.45: XX
- 15.00: XX
- 15.15-15.30 Break
- 15.30-16.00 Presentations by participants, Thomas Bandholm and Kristian Thorborg
- 15.30: XX
- 15.45: XX
- 16.00 End of Day 2

### Day 3 (10/5-2017)

- 09.00-09.45 Systematic reviews and meta-analyses, Michael Rathleff
- 09.45-10.30 Proper reporting of the study: checklists, Michael Rathleff
- 10.30-11.00 Break
- 11.00-11.45 Journal club, Thomas Bandholm and Kristian Thorborg
- 11.45-12.30 Lunch
- 12.30-13.30 Presentations by participants, Thomas Bandholm and Kristian Thorborg
- 12.30: XX
- 12.45: XX
- 13.00: XX
- 13.15: XX
- 13.30-14.15 Presentations by participants, Thomas Bandholm and Kristian Thorborg
- 13.30: XX
- 13.45: XX
- 14.00: XX
- 14.15-14.45 Break
- 14.45-15.15 Presentations by participants, Thomas Bandholm and Kristian Thorborg
- 14.45: XX
- 15.00: XX
- 15.15-15.45 General discussion, Thomas Bandholm and Kristian Thorborg
- 15.45 End of course