



## CERTIFICATE

**Michael Dahl**

has completed the 3.2 ECTS PhD course

**"Clinical Research"**

Spring, 2015

**Description:** The course aimed to provide a comprehensive review of clinical research with emphasis on how to design and how to perform a clinical study and thus gave the participant the necessary tools to perform clinical trials. The course contained a comprehensive review on how to plan and perform clinical trials involving humans. Different designs (the randomized controlled trial and other designs including more specialized designs) were reviewed and the planning of a clinical trial was presented. Power calculations were reviewed in detail in order to provide the participant with the necessary tools to give an estimate of the number of subjects needed for a clinical trial. Methods (biochemical methods, diagnostic tests, reliability, coefficient of variation etc.) were reviewed and concepts such as evidence based medicine, collaboration with the medical industry, the legal aspects of a clinical trial (how to write a contract, legal obligations etc.), how to review a paper, practical aspects of biobanks, and how to perform meta-analyses were covered. Emphasis was put on practical exercises related to the topics mentioned above along with lectures.

**Course responsible:** PhD DrMedSc Peter Vestergaard

**Lecturers:** Peter Vestergaard, Lars Jelstrup Petersen, Louise Bornebusch Lund, Fredrik Gerstoft, Louise Hansen, Mette Grønkjær, Søren Risom Kristensen, Henrik Krarup, Jesper Karmisholt, Christian Kruse.

**Thomas Graven-Nielsen**  
PhD Study Director

**Faculty of Medicine**