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## Undervisnings CV

### Areas of responsibility

I have given lectures in auditoriums with 70-200 students and taught "classes" with 15-30 students, from 1997 and since then on all levels, undergraduate, Ph.D.-level and post graduate. I have been responsible for organizing the teaching of "The Spinal disorders" at the master level of the medicine study at the Faculty of Health, University of southern Denmark for 6 year (2012-2018). I have taught at the same course previously, and supervised students one on one and in groups on the topics of Spinal disorders, musculoskeletal injuries and disorders and sport medicine. I have taught at the "pre-Ph.D. course" where medical doctors and masters in Health Science are introduced to the Ph.D.-studies. Further I have taught Ph.D.-courses, principally methods courses. In the "How to write a manuscript course" a five-day course we were two teachers. I helped to start the course up and taught the statistic and methods-part, and participated in the teaching of "good scientific conduct", that was an important part of the course. Additionally, I have had the responsibility of "bedside teaching" of students, supervising their clinical education and their clinical development.

### Chronological list of teaching and responsibilities:

Since 1996 when I started my research at the University of Southern Denmark, I have taught students on different levels on numerous different topics.

From 1999 onwards I have taught researchers in other countries and at the "European master in Health and fitness" about the testing methods of my Ph.D.-study "European Youth Heart Study", that is a inter-national multicenter study, where I was the first in Europe to get the money and carry out the study. Teaching was performed both as plenary teaching and practical training "on location" supervision at pilot studies. This topic was also taught as a course at the European Master in Health and Fitness, performed both in France and England.

I have from 2001 to 2019 taught Sports Injury Prevention and Sports Injury epidemiology at Sports Medicine course at the Faculty of Health Sciences, University of Southern Denmark.

I since 2006 taught in the PhD program at the Faculty of Health Sciences, University of methods, including manuscript reading and writing.

Since 2010 I have been teaching Sports medicine as part of a post-graduate course for medical doctors who are in residency to become General Practitioners.

I have since 2012 been responsible for the teaching of "spinal disorders" in the Musculoskeletal block at the Faculty of Health Sciences, University of Southern Denmark. I have also made the written examinations of the courses "spine disorders" 2-4 times a year depending on whether there was a re-examination since 2012.

I have for several years been associated with the Chiropractic Institutes in Paris and Toulouse, where I annually have taught a course on "Contraindications for manipulation and indications for surgery in musculoskeletal system". The course is based on cases to create a teaching that is interesting and applicable. Students are definitely more active and interested when teaching is based on "real cases" rather than when it is purely theoretical.

In addition, I, along with Professor Charlotte Leboeuf Yde have taught chiropractors in several European countries. My part of teaching has been contraindications for manipulation and indications for surgery in musculoskeletal system" and indications for referral to an orthopedic surgeon to attain an assessment, whether surgery is necessary or not.

In addition I have taught "health Science" to Sport Science Students and the last years I have also taught on the topic "Physical activity and bone health" at the Department of Sport Science and clinical biomechanics.

I have been the main or co-supervisor of 14 doctoral students, more than 20 graduate students and more than 100 undergraduate students on their master and bachelor theses. I have been reviewer and head of the Ph.D.-thesis review committee twice and reviewed one Doctoral Thesis in medicine.

Every year I have planned and organized post-graduate symposiums at Middelfart hospital. All General practitioners, Chiropractors and physiotherapists in The Region of Southern Denmark are invited for the three-hour symposium. This year we are having a symposium on hip disorders, with both hip arthroplasty and arthroscopy surgeons, physiotherapists specializing in disorders of the muscles around the hip (the groin and gluteus muscles primarily). We have never had less than 100 clinicians participating, and they keep on returning, this year (25<sup>th</sup> of April 2017) we already have a waiting list of more than 20 clinicians.

I have been responsible for the "spinal disorders" part of the written exams biannually for the Master course in medicine "musculoskeletal disorders and diseases".

I have participated as an examiner for several forms of examination: In traditional oral exam, defense of the task (Bachelor, Master, contemplation task undergraduate pre-made training and opponent of doctoral thesis), and oral "spot tests".

I since 2006 taught in the PhD program at the Faculty of Health Sciences, University of methods, including special script reading and writing.

I have been head and co-supervisor of 18 doctoral students, more than 20 graduate students and more than 100 undergraduate students on their master and bachelor theses.

### **Knowledge sharing and peer supervision**

I have for several years worked in multidisciplinary departments where it is "second nature" to teach and be taught by colleagues. As consultant I have often been the teaching part for physiotherapists, Chiropractors, younger colleagues, students and nurses, but I have also benefitted from their experience with patients and research.

The sharing of knowledge is in my opinion mandatory, I have chosen to teach colleagues as general practitioners, physiotherapists, chiropractors and students through daily interaction as well as regular planned symposiums at the hospital.

In addition I have made sure that the colleagues at the Sports Medicine clinic at the hospital have opportunities to improve their clinical and scientific knowledge through courses and time specifically aimed at quality control and development. In addition it is planned that all employees participating in external courses are committed to share their new knowledge after the course.

### **Knowledge of learning, teaching and the study program**

In education, it is important to support and encourage the process of learning.

The students must be brought to see a connection between what they are learning and what they're going to work with in the future.

It will often be easier to capture the students' interest in clinical tasks and issues than theoretical issues. During clinical tasks and issues a direct relationship can be established between the learning process and their needs for knowledge of their future tasks. Where in traditional classroom teaching it can be a challenge to get the students to experience the same connections between the academic subjects and their future profession. It is under the direct supervision, for example and in connection with "bedside supervision" or thesis supervision, easier than during lectures and classroom teaching.

### **Practice and reflection**

In my daily work as a clinical professor I have primarily students alone, and which supervised around and taught, they experience as much concerned, it has a direct relation to their daily lives and their future profession, and it is easier to teach to determine the level, when only a student rather than a "class" or an entire auditorium full of students. It is therefore a very grateful task to teach in this way.

It is also important that the teaching takes place at a challenging level, which means that the student sees it as a challenge to learn, but as a positive challenge, where it is possible to reach the goal of understanding the topic and being able to practice skills taught. If the students see it as impossible to understand the described and thereby not being able to attain the necessary skills, they often resign and become uninterested, causing an unsatisfactory experience of the learning situation for both the students and the teacher.

### **Pedagogical development projects**

I am at moment responsible for the development and teaching of the musculoskeletal course at the coming Master of Medicine at the University of Southern Denmark, Hospital of South West Jutland in Esbjerg.

I developed a program and course for teaching practical research methods and testing during my Ph.D.-study. I taught it to other research groups that were part of the multicenter project "The European Youth Hearst Study" and at the "European master in Health and fitness".

I have helped start up the Ph.D.-course on "Manuscript writing" a week long course where the Ph.D.-students are taught all aspects of manuscript writing.

In connection with the planning of a future post graduate "specialist chiropractor" training I have participated and advised in relation to the skills that would make it possible of chiropractors to work at either orthopedic or rheumatology departments. It takes place at the Institute of Sports Science and Clinical Biomechanics.