

Teaching portfolio

1. Teaching CV: A list of teaching and supervision tasks, including specification of academic fields, scope, level (bachelor, master, continuing education, PhD). Please state the teaching method used (e.g. lecture, class teaching, exercises, supervision, examination, coexamination, distance teaching, internet-based teaching and evaluation of teaching). Please also indicate the language of instruction.

Teaching portfolio

I have teaching experience on both the pregraduate and postgraduate level. I have experience with several teaching methods including given lectures and oral presentations, online teaching in small groups, hands-on training and supervision, problem-based learning, case-based training, and teaching in small groups involving shared experiences. I have developed educational programs regarding appetizer courses for ultrasound-novices, basic ultrasound courses for general practitioners and I am currently working on developing pregraduate educational programs regarding ultrasound teaching and second victim teaching

2010 Teaching "Atypiske pneumonier" (atypical pneumonia) to medical doctors at Internal medicine department. Viborg Regional Hospital. 21. October 2010.

2012 Teaching "Hantavirus i Midtjylland" (Glomerulonephritis caused by Hanta virus) to medical doctors at Internal medicine department. Viborg Regional Hospital. 9. February 2012.

2014 Teaching Nurses at Viborg regional hospital "How to conduct home blood transfusions and transfusion complications" Two teaching sessions with 8 nurses.

2014 Teaching "Autoimmune hepatitis" to medical doctors at Internal medicine department. Viborg Regional Hospital. 4. December 2014.

2015 Teaching "How to use Big Data to determine who is admitted to the hospitals" to Akutfagligt Råd, Central Region of Denmark. 10. December 2015.

2015 Teaching the use of ultrasonography for novice users (using action cards and hands on training). Doctors Days, Bella Centeret, Copenhagen November 2015.

2016 Graduate school of medicine, AAU (2nd semester). Clinical exercises. 18.19. February 2016 (2 whole days)

2016 Teaching the use of ultrasonography for general practitioners at Store Praksisdag in the Southern region of Denmark. Fredericia 29 April 2016.

2016 Chair in a session with scientific presentations at the WONCA conference, Copenhagen, Denmark. 16. June 2016

2016 Graduate school of medicine, AAU (2nd semester). Clinical exercises. 4.-5. October 2016

2016 Graduate school of medicine, AAU (1st semester). Clinical exercises. 24.-25. November 2016

2016 Teaching the use of ultrasonography for novice users (using action cards and hands on training). Doctors Days, Bella Centeret, Copenhagen November 2016.

2016 Teaching "How to develop questionnaires" at internal research meeting at Center for General Practice at Aalborg University. 8. September 2016

2017 Teaching "How to do qualitative research" at internal research meeting at Center for General Practice at Aalborg University. 22. Maj 2017

2017 Graduate school of medicine, AAU (2nd semester). Clinical exercises. 15.-16. February 2017

2017 Graduate school of medicine, AAU (2nd semester). Clinical exercises. 23.,24.,28. February 2017

2017 Organizing and moderator of PhD forum, annual meeting for PhD students in General Practice. 14.-15. September 2017

2017 Teaching hands-on ultrasound at meeting for the society for general medicine (SAMS) and the society for young family medicine doctors (FYAM). Aalborg Øst, 25.9.2017.

2017 Graduate school of medicine, AAU (2nd semester). Clinical exercises. 10.-12. October 2017

2017 Moderator and teaching the use of ultrasonography for novice users (lectures and hands on training). Doctors Days, Bella Centeret, 15. November 2017

2017 Graduate school of medicine, AAU (1st semester). Clinical exercises. 22.-24. November 2017

2017 Graduate school of medicine, AAU (1st semester). Clinical exercises. 28.-30. November 2017

2018 Moderator and teaching the use of ultrasonography for novice users (lectures and hands on training). Doctors Days, Bella Centeret, 13. November 2018

2018 Assessing competence of nineteen general practitioners' ultrasound skills during eight teaching session between January and August 2018

2019 Teaching mixed methods research at the Mixed Method Journal Club, Unit for Psychiatric Research, Department of clinical medicine, Aalborg University. 18. Marts 2019

2019 Teaching mixed method research at internal meeting at Center for General Practice at Aalborg University. 5 February 2019

2019 Teaching the use of OSAUS assessment tool at Ultrasound workshop Center for General Practice at Aalborg University. 7. February 2019

2019 Teaching the use of ultrasound in general practice to a general practitioners meeting, Aalborg, Denmark. 1. April 2019

2019 Teaching the use of ultrasonography for novice users (using action cards and hands on training). Teaching day for general practitioners in training, Viborg Regional Hospital, Viborg 17 December 2019.

2019 Junior chair, Nordic Congress for General Practice 2019, Aalborg, Denmark. 19. June 2019

2019 Chair plenum session, Nordic Congress for General Practice 2019, Aalborg, Denmark. 20. June 2019

2019 Teaching the use of ultrasonography for novice users (using action cards and hands on training). Doctors Days, Bella Centeret, Copenhagen 12 November 2019.

2019 Teaching hands-on ultrasound at the pre-congress 21st Nordic Congress of General Practice. Aalborg 15-16 June 2019.

2019 Teaching hands-on ultrasound at meeting for the society for general medicine (SAMS) and the society for family medicine doctors (DSAM). Aalborg Øst, 25.3.2019.

2019 Teaching the use of ultrasound in general practice at DSAMs annual meeting. 4. October 2019

2019 Teaching The general practitioners as a second victim at DSAMs annual meeting. 4. October 2019

2020 Teaching the use of ultrasonography for general practitioners at Store Praksisdag in the capital region of Denmark. Copenhagen 30. January 2020

2020 Graduate school of medicine, AAU (2nd semester). Clinical exercises. Abdominal organs. 26.-28. February 2020 (3 whole days)

2020 Teaching the use of ultrasonography for novice users (using action cards and hands on training followed by competence assessment of ultrasound skills). Basic ultrasound course for general practitioners; Hanstholm, 24. September and 10. December 2020

2021 Teaching the use of ultrasonography for novice users (using action cards and hands on training). Appetizer ultrasound course for general practitioners; Viborg, 22. February 2021

2021 Graduate school of medicine, AAU (6th semester). Clinical exercises. Kidney and empathic conversation 20. April 2021

2021 Graduate school of medicine, AAU (4th semester). Clinical exercises. Empathic conversation with patients in crisis 17.-18. May 2021

2021 Teaching the use of ultrasonography for novice users (using action cards and hands on training). Appetizer ultrasound course for medical students Aalborg, 20. May 2021

2021 Graduate school of medicine, AAU (12th semester). Musculoskeletal conditions in general practice 26. May, 2. and 9. June 2021

2021 Teaching the use of ultrasonography for novice users (using action cards and hands on training followed by competence assessment of ultrasound skills). Basic ultrasound course for general practitioners; Hanstholm, 2nd, 30th September + 2nd December 2021

2021 Graduate school of medicine, AAU (3rd semester). Clinical exercises. Neurological examination 20.-22. September 2021

2021 Graduate school of medicine, AAU (5th semester). Clinical exercises. Musculoskeletal examination and communication. 24.-25. November 2021

2021 Teaching the use of ultrasonography for novice users (using action cards and hands on training). Doctors Days, Bella Centeret, Copenhagen 16 November 2021

2021 Teaching Second victim. Doctors Days, Bella Centeret, Copenhagen 15 November 2021

Supervisor experience:

2017: Julie Ross Jepsen and Pia Lundorff Haugen, Master thesis in Medicine at Aarhus University. The accuracy of lung ultrasonography in the hands of non-specialists to diagnose and assess severity of community-acquired pneumonia in adults: A systematic review. Supervisors: Martin Bach Jensen, Ole Graumann and Camilla Aakjær

2018: Marie Espersen, Masters thesis in Medicine at Aalborg University. Ultrasound competences in general practice: An interview study. Supervisors: Janus Laust Thomsen, Martin Bach Jensen and Camilla Aakjær Andersen

2018: Henriette Sav Madsen, Masters thesis in Medicine at Aarhus University. Education of General Practitioners in the Use of Point-of-care Ultrasonography: A systematic review. Supervisors: Joachim Frølund, Thomas Løkkegaard, Martin Bach Jensen and Camilla Aakjær Andersen

2018: Randi Hesselund Knudsen, Masters thesis in Medicine at Aarhus University. Alment praktiserende lægers barrierer og facilitatorer for at involvere praksispersonalet i behandlingen af rygsmerter i Danmark: et kvalitativt interviewstudie. Supervisors: Allan Riis, Janus Laust Thomsen, and Camilla Aakjær Andersen

2019: Annika Kamp Frandsen, Masters thesis in Medicine at Aalborg University: Elucidating the Employment of Point-of-Care Ultrasound by Novel Users in Danish General Practice – A Descriptive Study. Supervisors: Malene Plejdrup Hansen,

Camilla Aakjær Andersen, Martin Bach Jensen, professor

2019: Andreas Høeg-Petersen and Jesper Kenneth Sommer, Masters thesis in Medicine at Aalborg University: Point-of-Care ultrasonography: Evaluating a short training program, a questionnaire study. Supervisors: Malene Plejdrup Hansen, Camilla Aakjær Andersen, Martin Bach Jensen

2020: Lise Bisgaard, Master thesis in Medicine at Copenhagen University. Danish GPs' experiences when managing patients presenting to general practice with symptoms of acute lower respiratory tract infection: Semi-structured interviews. Supervisors: Malene Plejdrup Hansen, Camilla Aakjær Andersen, Morten Siig Ager Nielsen, Lars Bjerrum

2020: Michael Bjerring Kristensen, Masters thesis in Medicine at Aalborg University: Evaluering af 1-sides instrukser som støtteredskab for ultralydsbrugere i almen praksis. Supervisors: Martin Bach Jensen and Camilla Aakjær Andersen

2020-: Thomas Purup, Research assistant. Ultrasound training of junior medical doctors in Denmark: a questionnaire study. Supervisors: Martin Bach Jensen, Joachim Frølund and Camilla Aakjær Andersen

2020-: Jeffrey Allan Shanmuganathan, Research assistant. Accuracy of diagnostic algorithms used by frontline clinicians to diagnose deep vein thrombosis in an unselected patient population: A systematic review. Supervisors: Camilla Aakjær Andersen, Torben Bjerregaard Larsen, Gunnar Lauge Nielsen, Janus Laust Thomsen and Martin Bach Jensen

2020-: Julie Strøm Jepsen. PhD student. Can focused lung ultrasonography reduce antibiotic use for acute lower respiratory tract infections? A randomized trial in general practice. Supervisors: Malene Plejdrup Hansen, Camilla Aakjær Andersen, Janus Laust Thomsen, Christian Laursen, Martin Bach Jensen

2021-: Nicolai Berg Jensen, Research assistant, Diagnosis and treatment of of Gout disease in general practice using point-of-care ultrasound. Supervisors: Martin Bach Jensen, Camilla Aakjær Andersen, Jens Lykkegaard Olesen

2021: Niclas Møller, Cecilie Sloth Madsen and Janifa Nadarajah, Bachelor thesis in Medicine at Aalborg University: Dokumentation af undersøgelse af klinisk ultralyd i almen praksis. En kvantitativ undersøgelse. Supervisors: Malene Plejdrup Hansen, Martin Bach Jensen and Camilla Aakjær Andersen

2021: Freja Sverdrup-Lade. Masters thesis in Medicine at Aalborg University: Patient follow-up and quality assurance following POCUS examinations conducted in general practice. Supervisors: Malene Plejdrup Hansen, Julie Jepsen Strøm and Camilla Aakjær Andersen

2. Study/programme administration and management: Experience in programme management and coordination. A list of study administration tasks, e.g. study board membership, chair of study board, semester or course coordinator, accreditation tasks, etc. Experience in planning teaching activities. Experience in programme development. Participating in committees and commissions etc. on education issues.

I have experience with managing, planning and coordinating point-of-care ultrasound courses for beginners hosted by Center for General Practice at Aalborg University, The Danish College for General Practitioners and the Danish Medical Association (Doctors' days).

I have developed a new point-of-care ultrasound education for general practitioners and I have developed and are responsible for teaching medical students at Aalborg University about the term "Second Victim".

3. Formal pedagogical training: A list of completed courses in university pedagogy, PBL courses, workshops, academic development projects, collegial guidance and supervision, etc. Written assessment from the course in university pedagogy for assistant professors. Participation in conferences on pedagogy and didactics. Please enclose any documentation of the above, such as course certificates, references, etc

I have completed the university pedagogical program and the educational program for clinical teachers at Aalborg University:

2021-: University pedagogical program at Aalborg University.

2021-: Education in clinical teaching at the medical school at Aalborg University (Klinisk underviser forløb)

I am a certified trainer in point-of-care ultrasound:

2021: ZEDU Train the Ultrasound Trainer course

4. Other qualifications: Conference contributions and attendance, contributions to debates, scientific articles on pedagogical issues etc. Peer supervision, editorials, mentoring experience or other types of competence development activities.

I have completed several studies exploring how GPs are best trained in Point-of-care ultrasound. E.g.:

Andersen CA, Hedegård HS, Løkkegaard T, Frølund J, Jensen MB. Education of general practitioners in the use of point-of-care ultrasonography: a systematic review. *Fam Pract*. 2020 Dec 26:cm140. doi: 10.1093/fampra/cm140

Andersen CA; Espersen M, Brodersen J, Thomsen JL, Jensen MB, Davidsen AS. Learning strategies of general practitioners striving to achieve point-of-care ultrasound competence: A qualitative study. Manuscript accepted for publication in *SJPHC* October 2021.

Furthermore I have developed actioncards as one-sided instructions for teaching point-of-care ultrasound.

5. Pedagogical development and research: Development of new courses, teaching materials, teaching methods, examination types or other types of pedagogical development. Didactic and pedagogical research. Cooperation with external collaboration partners.

I am currently working on developing a new model for basic point-of-care ultrasound courses integrating learning over time and an online platform for support.

6. References on your teaching skills from superiors or colleagues. Teaching evaluations and any teaching awards received.

These are available upon reasonable request.

7. Personal reflections and initiatives: Here you may state any personal deliberations as regards teaching and supervision, any wishes and plans for further pedagogical development, plans for following up on student feedback/evaluations, etc. Personal reflections on your own pedagogical practice, including objectives, methods and implementation. This should include an analysis and a reasoned description of your pedagogical activities in relation to your pedagogical understanding and student learning. Thoughts on the teaching method at Aalborg University (which is largely based on group-organised project work and problem-based learning)

I have always found it very pleasing and rewarding to teach. I appreciate the exchange of knowledge and I enjoy being taught myself as well as teaching others. I continuously try to improve myself as a teacher by using different teaching methods and applying different techniques. I primarily see myself as a motivator and facilitator of learning. Still, I do deliver information and knowledge to the students, but this is done in a way, where the students are activated to think and reflect themselves or in the group. When I teach, my main aim is to prepare the students for meeting the patients.

8. Any other information or comments.

Type your answer here...