

**General**

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**PhD degree*****Pharmacological risk factors for fracture in type 2 diabetes mellitus***

Date: May 19–Jul 22 (degree awarded 25 Sep 2023)  
 Institution: Aarhus University (AU) & Steno Diabetes Center Aarhus (SDCA)  
 Advisor: Prof. Søren Gregersen, consultant, PhD  
 Discipline: Pharmacoepidemiology

**Medical degree**

Period: Feb 12–Jan 18  
 Institution: Dept. of Clinical Medicine, Aarhus University

**Clinical work**

Apr 24–...	<b>Senior House Officer</b>	<b>General medicine</b> , Lægehuset Marselis v. Læge Karen Kjær Larsen
Nov 23–Mar 24	<b>Shift locum</b>	<b>Regionspsykiatrien Midt (Viborg)</b> , Psykiatrien Region Midtjylland
Jul 23–Oct 23	<b>Senior House Officer, pt. 2</b>	<b>Dept. of Endocrinology and Internal Medicine</b> , AUH
May 23–Jun 23	Research leave	<i>2 months' leave to finish PhD thesis</i>
Aug 22–Apr 23	<b>Senior House Officer, pt. 1</b>	<b>Dept. of Endocrinology and Internal Medicine</b> , AUH
May 19–Mar 21	<b>Part-time locum</b>	<b>AUH Psychiatry</b> , Central Denmark Region
Nov 18–Apr 19	<b>House Officer ("KBU")</b>	<b>Afdelingen for Psykoser (S7)</b> , AUH Psykiatri
May 18–Oct 18	<b>House Officer ("KBU")</b>	<b>Dept. of Endocrinology and Internal Medicine</b> , AUH
Feb 18–Apr 18	<b>House Officer ("pre-KBU")</b>	<b>Dept. of Endocrinology and Internal Medicine</b> , AUH
Aug 16–Dec 16	<b>Student internship</b>	<b>Dept. of Cardiology</b> , Aalborg University Hospital

**Course participation**

Nov 19	<b>Basal Metabolism and Molecular Mechanisms in Diabetes</b> (2.30 ECTS), Danish Diabetes Academy
Apr 16	<b>Akutte invasive procedurer</b> , SATS Aarhus
Apr 16	<b>Emergency medicine, level 2</b> , OAMS (Oslo Akuttmedisinske Studentforening), Oslo, Norge
Sep 15	<b>Diving Medicine Summer School</b> , Dive with Doctors, Dahab, Egypten
Sep 14	<b>SATS Katastrofekursus</b> , SATS Aarhus

**Communication**

2020–2022	<b>Q&amp;A forum: 300+ questions answered</b> (Facebook page "Ask a doctor about coronavirus")
Award	<b>Best Flash Talk</b> , PhD Day 2020, Health, AU

**Teaching**

Okt 18	3 konfrontationstimer, <b>Medicinsk kommunikation</b> (medicin- og sygeplejestuderende), PUST & SATS Aarhus
Sep 17	3 konfrontationstimer, <b>Medicinsk krisekommunikation</b> (medicinstuderende), SATS Aarhus

**Presentations**

Sep 22	<b>Pharmacological risk factors for fracture in type 2 diabetes mellitus</b> , Thursday Meeting, HoK
Jun 22	<b>Pharmacological risk factors for fracture in type 2 diabetes mellitus</b> , Clinical conference, SDCA
Mar 22	<b>Undertaking a PhD</b> , Steno Thursdays, SDCA
Dec 21	<b>The insulin suppression test as an alternative to HIEC for measuring insulin sensitivity</b> , META lab meeting, SDCA
Feb 20	<b>Measuring insulin sensitivity: the insulin suppression test and HIEC</b> , Thursday Meeting, HoK
Jan 20	<b>Diabetic bone disease</b> , Reaven-lab, Stanford Cardiovascular Medicine, CA, USA

### Course participation

Jun 21	2.60 ECTS, <b>Advanced Course in Written English</b> , Health, AU
Feb 20	2.80 ECTS, <b>Research Presenter – Educational Informatics</b> , Health, AU
Feb 20	2.70 ECTS, <b>Principium – PhD students as teachers and learners</b> , Health, AU

### Collaboration

May 20–Sep 21	<b>Board member, The PhD association</b> , Health, AU
Oct 15–Oct 17	<b>Board member, SATS Aarhus</b> (Students' Society for Anaesthesiology and Traumatology)
Oct 15, 16 & 17	<b>Course organiser</b> for <b>SATS Catastrophe Course</b> x 3, SATS Aarhus
Maj 16	<b>Junior Organiser</b> , EMS2016 conference, Emergency Medical Services, The Capital Region of Denmark and TrygFonden

### Organisation and administration

May 24–...	Performed <b>quality improvement project</b> on uric acid arthritis, Lægehuset Marselis
Nov 22–Apr 23	<b>Clinical supervisor</b> for house officer (KBU-læge)
Jan 21–Jan 23	<b>Early clinical rotation organiser</b> (2nd semester medical students), HoK, AUH
Feb 20–Feb 22	<b>Member</b> of the <b>PhD committee</b> and the <b>subcommittee for credits and waivers</b> , The Graduate School of Health, Health, AU
Nov 19–May 22	<b>Thursday meeting planner</b> (weekly scientific meetings), HoK, AUH
Jan 19–Apr 19	<b>Holiday shift planner</b> , junior physicians, AUH Psykiatri

### Health advocacy

Co-author	Two chapters in the book <b>"Kvalitet og patientsikkerhed under covid-19"</b> (Quality and patient safety during covid-19) Published by the Danish Society for Patient Safety.
Sep 20	Recipient of the <b>Patient Safety Award 2020</b> along with the other contributors on "Ask a doctor about coronavirus". Awarded by the Danish Society for Patient Safety.
Feb 18	<b>Instructor: Basic CPR</b> (6 hours), Salling Group
Mar 16	<b>First aid provider</b> (8,5 hours), Rally Midtjylland

### Research and academia

Publications	<b>First authorships:</b> 4	<b>Co-authorships:</b> 8
Google Scholar	<b>Citations:</b> 177	<b>H-index:</b> 8
Scopus	<b>Citations:</b> 128	<b>H-index:</b> 8

### Positions

Feb 25—...	<b>Postdoc</b> , Steno Diabetes Center Aarhus, part-time (40%) Prediction of type 2 diabetes and medication responses
May 19–Jul 22	<b>PhD student</b> , Steno Diabetes Center Aarhus and Aarhus University

### Miscellaneous roles

May 21–Jul 22	<b>Co-investigator, Step-10</b> (Efficacy and safety of once-weekly semaglutide 2.4 mg versus placebo in people with obesity and prediabetes), Novo Nordisk
May 19–Jul 22	<b>Co-investigator, The SOUL Trial</b> (Semaglutide Cardiovascular Outcomes Trial in Patients with Type 2 Diabetes Mellitus), Novo Nordisk

Feb 17–Jun 17 **Clinical Research Assistant**, NeuRescue ApS

#### Current collaborations and projects

- #1 **Constitutional chromosomal abnormalities and adverse outcomes of COVID-19: a nationwide study**,  
Collaboration: Dept. of Clinical Epidemiology, Dept. of Clinical Genetics & Dept. of Endocrinology and Internal Medicine, Aarhus University Hospital
- #2 **Metcercise**, randomised controlled trial on the effects of exercise on bone health in type 2 diabetes  
Collaboration: Steno Diabetes Center Aarhus & Steno Diabetes Center North Denmark (SDCN)
- #3 **HEADWISE**, national cluster-RCT comparing different algorithms for cerebral CT after mild head trauma.  
Collaboration: Dept. of Radiology, "Vælg Klogt", HEADWISE consortium

#### Research stays

- Jan 20 **Stanford Cardiovascular Medicine**, CA, USA  
2 week personal training in the insulin suppression test with Dr. Fahim Abbasi og Dr. Joshua Knowles, Reaven-lab.
- Nov 21 **Steno Diabetes Center North Denmark**, Aalborg, DK  
4 week research stay with Prof. Peter Vestergaard

#### Conference presentations

- Sep 22 **Short oral presentation**, EASD (European Association for the Study of Diabetes), Stockholm, Sweden  
"Fracture risk in treatment with GLP-1RA compared to DPP-4i"
- Jun 22 **Oral presentation**, DES (Dansk Society for Endocrinology) conference 2022, Kolding, Denmark  
"SGLT2 inhibitor treatment does not increase risk of osteoporotic fractures compared to GLP-1 receptor agonists"
- May 22 **Oral presentation**, ECE (European Congress of Endocrinology), Milano, Italy  
"SGLT2 inhibitor treatment does not increase risk of osteoporotic fractures compared to GLP-1 receptor agonists"
- May 22 **Oral presentation**, SSSD (Scandinavian Society for the Study of Diabetes), Reykjavik, Iceland  
"Fracture risk in treatment with GLP-1 RA compared to DPP4-I"

#### Other scientific meetings

- Dec 22 **Oral presentation**, HoK/SDCA-symposium  
"Systemic glucocorticoid use increases fracture risk independently of type 2 diabetes mellitus"
- Jun 22 **Poster**, Steno Research Retreat  
"SGLT2-I treatment is not associated with an increased risk of osteoporotic fractures when compared to GLP-1 RA"
- Nov 21 **Oral presentation**, SDCA-SDCN research symposium  
"Diabetic bone disease"
- Jan 21 **Online poster**, PhD Day 2021, Health, AU  
"SGLT2-inhibitors and fracture risk"
- Jan 20 **Flash talk**, PhD Day 2020, Health, AU  
"Diabetic bone disease"

#### Teaching

(active teaching hours stated)

- 13h 30m **Clinical teachin** (medical students, 2nd semester), HoK, AUH
- 42h 30m **Simulation: Emergency medicine week** (medical students, 12th semester), Health, AU
- 03h 00m **Lecture: Basic diabetology** (molecular medicine students, 9th semester), Health, AU
- 92h 00m **Instructor: Basic CPR** (medical students, 2nd semester), Health, AU
- 29h 45m **Simulation: Emergency medicine and communication** (medical students), SATS Katastrofekursus & FAM-dagen
- 26h 45m **Teaching and simulation: Emergency medicine** (medical students), SATS Aarhus

35h 00m	<b>Practical training: venous access, arterial blood gas, ultrasound/eFAST</b> (medical students), FADL, SATS Aarhus
03h 00m	<b>Practical training: Thoracostomy on pigs</b> (medical students), SATS Aarhus
<b>Peer reviewer</b>	
Journals	Frontiers in Endocrinology Basic & Clinical Pharmacology & Toxicology Scientific Reports
<b>R-udvikler</b>	
R-package	<a href="https://github.com/zheer-kejlberg/Z.gtsummary.addons">https://github.com/zheer-kejlberg/Z.gtsummary.addons</a> Open-source R-package to add SMD-values and to mask microdata in baseline tables developed using {gtsummary}
R-package	<a href="https://github.com/zheer-kejlberg/publistR">https://github.com/zheer-kejlberg/publistR</a> An R-package to easily create structured and formatted publication lists
<b>Course participation</b>	
May 22	3.10 ECTS, <b>Causal Inference in Health Science</b> , Health, AU
Mar 22	2.00 ECTS, <b>Which Covariates to Adjust for: An introduction to causal directed acyclic graphs</b> , Health, AU
Mar 22	3.10 ECTS, <b>Introduction to Machine Learning in Health Sciences</b> , Health, AU
Oct 21	5.00 ECTS, <b>Stanford Medical Statistics Certificate</b> , Stanford Online
Oct 20	4.70 ECTS, <b>Applying Clinical Epidemiological Methods and Danish databases to study chronic disease</b> , Health, AU
Sep 19	3.00 ECTS, <b>Responsible Conduct of Research</b> , Health, AU
Sep 19	1.40 ECTS, <b>Data Management and Stata</b> , Health, AU
May 19	<b>GCP: Good Clinical Practice</b> , Brookwood Academy
Jan 16–Jun 16	5.00 ECTS, <b>Clinical Epidemiology</b> (elective course, 9th semester), Health, AU
<b>Additional conference participation</b>	
Mar 17	<b>NAMS</b> (Norsk Akutmedicinsk Studenterforum), NTNU, Trondheim, Norge
Apr 17	<b>Prehospital Medicine Against the Elements</b> , St. Bartholomew's Hospital, London, UK
May 16	<b>EMS2016</b> (Emergency Medical Services), Emergency Medical Services and TrygFonden, Copenhagen, DK
<b>Miscellaneous</b>	
Languages	Danish, English, Arabic (Iraqi), Kurdish (Sorani)
Software	Languages: R (level: high), Python (intermediate), Matlab (beginner), STATA (beginner) IDE: RStudio, Spyder. Version Control: Git + GitHub. Package and environment management: Homebrew, conda, pip
Memberships	Danish Medical Association and Junior Doctors' Association Danish Society for Endocrinology and The Society for Young Endocrinologists Dansk Society for Pharmacoepidemiology