

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

Course participation

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

Communication

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

Teaching

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

Presentations

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

Course participation

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

Collaboration

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

Organisation and administration

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

Health advocacy

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

Research and academia

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

Positions

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

Miscellaneous roles

May 21–Jul 22	Co-investigator, Step-10 (Efficacy and safety of once-weekly semaglutide 2.4 mg versus placebo in people with obesity and prediabetes), Novo Nordisk
May 19–Jul 22	Co-investigator, The SOUL Trial (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	Practical training: venous access, arterial blood gas, ultrasound/eFAST (medical students), FADL, SATS Aarhus
03h 00m	Practical training: Thoracostomy on pigs (medical students), SATS Aarhus
Peer reviewer	
Journals	Frontiers in Endocrinology Basic & Clinical Pharmacology & Toxicology Scientific Reports
R-udvikler	
R-package	https://github.com/zheer-kejlberg/Z.gtsummary.addons Open-source R-package to add SMD-values and to mask microdata in baseline tables developed using {gtsummary}
R-package	https://github.com/zheer-kejlberg/publistR An R-package to easily create structured and formatted publication lists
Course participation	
May 22	3.10 ECTS, Causal Inference in Health Science , Health, AU
Mar 22	2.00 ECTS, Which Covariates to Adjust for: An introduction to causal directed acyclic graphs , Health, AU
Mar 22	3.10 ECTS, Introduction to Machine Learning in Health Sciences , Health, AU
Oct 21	5.00 ECTS, Stanford Medical Statistics Certificate , Stanford Online
Oct 20	4.70 ECTS, Applying Clinical Epidemiological Methods and Danish databases to study chronic disease , Health, AU
Sep 19	3.00 ECTS, Responsible Conduct of Research , Health, AU
Sep 19	1.40 ECTS, Data Management and Stata , Health, AU
May 19	GCP: Good Clinical Practice , Brookwood Academy
Jan 16–Jun 16	5.00 ECTS, Clinical Epidemiology (elective course, 9th semester), Health, AU
Additional conference participation	
Mar 17	NAMS (Norsk Akutmedicinsk Studenterforum), NTNU, Trondheim, Norge
Apr 17	Prehospital Medicine Against the Elements , St. Bartholomew's Hospital, London, UK
May 16	EMS2016 (Emergency Medical Services), Emergency Medical Services and TrygFonden, Copenhagen, DK
Miscellaneous	
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