

CURRICULUM VITAE

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Name & degree: Alexander Emil Kaspersen, MD
Position: Medical Doctor, Affiliated Researcher
Date of birth: February 17, 1994
Work address:
Palle Juul-Jensens Boulevard 69
DK-8200 Aarhus N

Phone: +45 2533 9198
Email: alemka@clin.au.dk
ORCID ID: 0000-0002-6088-5248
Pure: www.au.dk/alemka@clin
Website: www.sundforsk.dk



EDUCATION

- 2022 **Doctor of Medicine (MD), Aarhus University, Aarhus, Denmark**
Master thesis: *Evaluation of single-dose cefuroxime pharmacodynamics and concentrations in the spinal cord, cerebrospinal fluid, and epidural space in relation to spine surgery – an experimental porcine study.* Grade: 12.
- 2019 **Bachelor of Science in Medicine (BSc), Aarhus University, Aarhus, Denmark**
Bachelor thesis: *A new intelligent stocking for continuous quantification of edema in the lower limbs.* Grade: 12.

EMPLOYMENTS AND WORK EXPERIENCE (PAID WORK)

- 2022 – **First-year Resident**, Emergency Department, Horsens Regional Hospital, Horsens, Denmark.
- 2021 – 2022 **Course Assistant**, Danish Health Authority and Dept. of Clinical Medicine, Aarhus University, Aarhus, Denmark. Anaesthesia and surgical preparation in postgraduate courses in surgery.
- Jun – Aug 2020 **Research Assistant**, Dept. of Cardiothoracic Surgery, Sahlgrenska University Hospital, Gothenburg, Sweden.
- 2020 – 2022 **Intensive Care/Medical Ventilation Assistant (VT)**, Central Region Denmark. 32 hours at Intensive Department taking care of COVID-19 patients in ventilator.
- 2018 – 2019 **Research Assistant**, Dept. of Cardiothoracic and Vascular Surgery, Aarhus University Hospital, Aarhus, Denmark.
- Sep 2018 **Instructor**, The Student Counsellors' Office, Faculty of Health, Aarhus University, Aarhus, Denmark. Teaching study techniques for 1st semester students.
- 2017 – **Website Administrator** (own company and during employment). Design, SEO, content production, and participating in board meetings for Scandinavian Association of Thoracic Surgery (satsnordic.com), Danish Society of Cardiothoracic Surgery (thoraxkirurgi.dk), Danish Research Center for Cancer Surgery (acrobatic.com), Department of Cardiothoracic and Vascular Surgery, Aarhus University Hospital, Aarhus, Denmark (ctvs.au.dk), Advokaterne Sankt Knuds Torv P/S (aalborgadvokaten.dk), and Psychologist Kirstine Nielsen (kirstinenielsen.dk).
- 2014 – 2022 **Assistant in Surgery and Nursing Assistant (SPV)**, Central Region Denmark and North Denmark Region. More than 500 hours as primary assistant in orthopaedic surgery, primarily spine surgery but also shoulder, hip, ankle, leg and feet surgery. In addition, more than 100 hours of nursing experience at somatic and psychiatric patients.
- 2012 **Teaching Assistant**, Aalborg Katedralskole, Aalborg, Denmark. Teaching second class of General Upper Secondary Education in danish lyrics.

VOLUNTEER WORK, BOARD MEMBERSHIPS, COMMITTEE WORK AND POSITIONS IN WORKGROUPS

- 2020 – **Initiator and Project Manager of Medical Research Hub**. Production of an online portal for scientific research in the field of health science in collaboration with Department of Clinical Medicine, Aarhus University, Denmark. www.medicalresearchhub.au.dk/about/steering-committee
- 2018 – **Member of the Organizing Committee, Scandinavian Society for Research in Cardiothoracic Surgery (SSRCTS)**. Secretary General and Website Administrator of the website www.ssrctsnordic.com. Organization of the 29th, 30th and 31th Annual Meeting. www.ssrctsnordic.com/about/organizing-committee
- 2017 – 2022 **Board Member (2017-2019, 2020-2022) and Secretary of the Board (2019-2020), Society of Medical Student Research (SMS)**. Organization of the 10th, 11th, 12th and 13th Danish Congress of Medical Student Research, organization of Dyreeksperimentelt forskningskursus (introduction to laboratory animal science) 2017, 2018 and 2019. Organization of Health Match Making Day 2019. Design and production of the website www.studenterforskning.dk. Participation and preparation of suggestions and minutes for meetings with the head of the departments and the dean's office.
- 2012 – 2013 **President, Student Association of Aalborg Katedralskole**

2011 – 2013 **Board Member of the Board of Aalborg Katedralskole and Vice President of the Student Association of Aalborg Katedralskole**

RESEARCH EXPERIENCE

- 2020 – 2022 **Research collaboration with Dept. of Orthopaedic Surgery, Aarhus University Hospital, Aarhus, Denmark.** Project Manager at experimental project about evaluation of cefuroxime concentrations in the lumbar spine and tissue of the central nervous system in a porcine model with microdialysis. Responsible for practical preparations, incl. study protocol, as well as execution of the research (data collection and statistics). Supervisor: Assoc. Prof. Kristian Høy, MD PhD.
- 2016 – **Affiliated Researcher, Dept. of Cardiothoracic and Vascular Surgery, Aarhus University Hospital, Aarhus, Denmark.** Involved in clinical, experimental, and epidemiologic research in the field of cardiac surgery.
- 2021 – 2022 Preparations for PhD study on current practices and long-term outcome of myocardial revascularization. Supervisor: Assoc. Prof., Senior Consultant Ivy Susanne Modrau, MD.
- 2020 Selected to represent Dept. of Cardiothoracic and Vascular Surgery as young researcher during development of the new research strategy at Aarhus University Hospital.
- 2020 **Research Assistant, Dept. of Cardiothoracic Surgery, Sahlgrenska University Hospital, Gothenburg, Sweden.** Project Manager: Deep Sternal Wound Infection Following Cardiac Surgery. Supervisor: Prof., Senior Consultant Anders Jeppsson, MD PhD.
- 2019 **Research stay abroad, Dept. of Cardiothoracic Surgery, Landspítali University Hospital, Reykjavik, Iceland.** Project Manager: Deep Sternal Wound Infection Following Cardiac Surgery. Supervisor: Prof., Senior Consultant Tomas Gudbjartsson, MD PhD.
- 2019 Participated as contributor in PhD project: In vivo evaluation of pulmonary cusp repair in a porcine model. PhD Student: Lisa Carlson Hanse, MD.
- 2018 – 2019 **Research Assistant, Dept. of Cardiothoracic and Vascular Surgery, Aarhus University Hospital, Aarhus, Denmark.** Project Manager of Evaluation of a New Intelligent Stocking for Quantification of Edema in the Lower Legs (see below).
- 2016 – 2018 Project Manager of Evaluation of a New Intelligent Stocking for Quantification of Edema in the Lower Legs. Responsible for preparations (study protocol, funding, approval from the local Regional Ethical Committee (VEK), Danish Medicines Agency and Danish Data Protection Agency) and execution (data collection and statistics). Supervisor: Prof. J. Michael Hasenkam, MD DMSc.
- 2015 Participated as contributor in PhD project: Evaluation of robot-assisted laparoscopic vs open cystectomy in a porcine model. PhD Student: Pernille Skjold Kingo, MD.

PUBLICATIONS

- Submitted Hvistendahl MA, Hanberg P, Stilling M, **Kaspersen AE**, Høy K, Bue M. Subtherapeutic perioperative levels of cefuroxime inside a cannulated pedicle screw used in spine surgery – results from a porcine microdialysis study. Submitted 20 June, 2022 to *Acta Orthopaedica*.
- Submitted **Kaspersen AE**, Hanberg P, Hvistendahl MA, Bue M, Schmedes AV, Høy K, Stilling M. Evaluation of single-dose cefuroxime concentrations in the spinal cord, cerebrospinal fluid, and epidural space in relation to lumbar spine surgery – an experimental porcine study. Submitted May 3, 2022 to *British Journal of Pharmacology*.
- 2022 Hvistendahl MA, Bue M, Hanberg P, **Kaspersen AE**, Schmedes AV, Stilling M, Høy K. Cefuroxime concentrations in the anterior and posterior column of the lumbar spine – an experimental porcine study. *The Spine Journal*. 2022 Jun 4. DOI: [10.1016/j.spinee.2022.05.010](https://doi.org/10.1016/j.spinee.2022.05.010).
- 2021 **Kaspersen AE**, Nielsen SJ, Orrason AW, Petursdottir A, Sigurdsson MI, Jeppsson A, Gudbjartsson T. Short- and long-term mortality after deep sternal wound infection following cardiac surgery: experiences from SWED-HEART. *European Journal of Cardio-Thoracic Surgery*. 2021 Jul 30;60(2):233-241. DOI: [10.1093/ejcts/ezab080](https://doi.org/10.1093/ejcts/ezab080).
- 2019 **Kaspersen AE**, Hasenkam JM, Leipziger JG, Djurhuus JC. [Introduction on how to write a scientific abstract]. *Ugeskrift for Læger*. 2019 May 20;181(21):V02190103. [ugeskriftet.dk/videnskab/introduktion-til-skrive-et-videnskabeligt-abstract](https://www.ugeskriftet.dk/videnskab/introduktion-til-skrive-et-videnskabeligt-abstract)

AWARDS AND PRIZES

- 2021 **Best Paper Award, Annual Meeting in Danish Society of Spinal Surgery 2021.** Value: 5,000 DKK.
Evaluation of single-dose cefuroxime concentrations in the spinal cord, cerebrospinal fluid, and epidural space in relation to lumbar spine surgery – an experimental porcine study.
- 2019 **Best Poster Presentation Award, 69th Annual Meeting in Scandinavian Association of Thoracic Surgery / 12th Joint Scandinavian Conference in Cardiothoracic Surgery.** Value: 15,000 SEK.
Long-term outcome of patients with DSWI following cardiac surgery – preliminary results from the SWEDEHEART registry.
- 2012 **Humørlegat, Nøglebroder-Ordenen Christian den Fjerdes Laug, Aalborg, Denmark.** Value: 1,000 DKK.
Awarded to a student at Aalborg Cathedral School who exhibits extraordinary engagement in the social life and strives to unite and include.

GRANTS AND FUNDING

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|------|-------------|---|
| 2022 | 100,000 DKK | Arvid Nilssons Fond, Denmark |
| 2022 | 11,260 DKK | Torben og Alice Frimodts Fond, Denmark |
| 2022 | 10,000 DKK | Carl og Ellen Hertz's legat, Denmark |
| 2022 | 124,415 DKK | Jens Anker Andersen Fonden, Denmark |
| 2022 | 10,000 DKK | Familien Hede Nielsens Fond, Denmark |
| 2022 | 7,000 DKK | Helga og Peter Kornings Fond, Denmark |
| 2022 | 100,000 DKK | A. P. Møller Fonden – Fonden til Lægevidenskabens Fremme, Denmark |
| 2021 | 200,000 DKK | Inge og Asker Larsens Fond, Denmark |
| 2021 | 50,000 DKK | Ketty og Ejvind Lyngsbæks Fond, Denmark |
| 2020 | 4,000 DKK | Helga og Peter Kornings Fond, Denmark |

SUPERVISION

- 2022 **Co-supervisor, Research Project.** Intensive Care Nurse Ditte Marie Willerslev, RN.
- 2022 **Co-supervisor, Master Thesis.** Medical Student Sine Skov, BSc.

INVITED TALKS

- 2021 **The Scandinavian Society for Research in Cardiothoracic Surgery (SSRCTS) and international research collaboration as an aspiring scientist.**
Annual Scientific Meeting in the Swedish Association for Cardiothoracic Surgery (Steningevikmötet) 2021, Stockholm, Sweden. 9 December 2021

ORAL AND POSTER PRESENTATIONS AT NATIONAL AND INTERNATIONAL CONFERENCES

- 2021 **Oral presentation: Annual Meeting in Danish Society of Orthopaedic Surgery/Dansk Ortopædisk Selskab (DOS) 2021, Frederiksbjerg, Denmark.**
Evaluation of single-dose cefuroxime concentrations in the spinal cord, cerebrospinal fluid, and epidural space in relation to spine surgery – an experimental porcine study.
Kaspersen AE, Hanberg PE, Hvistendahl MA, Bue M, Høy K, Stilling M.
- 2021 **Oral presentation: Annual Meeting in Danish Society of Spinal Surgery (DRKS) 2021, Kolding, Denmark.**
Selected as the best paper.
Evaluation of single-dose cefuroxime concentrations in the spinal cord, cerebrospinal fluid, and epidural space in relation to spine surgery – an experimental porcine study.
Kaspersen AE, Hanberg PE, Hvistendahl MA, Bue M, Høy K, Stilling M.
- 2021 **Poster presentation: Neuroscience Day 2021, online.**
Evaluation of single-dose cefuroxime concentrations in the spinal cord, cerebrospinal fluid, and epidural space in relation to spine surgery – an experimental porcine study.
Kaspersen AE, Hanberg PE, Hvistendahl MA, Bue M, Høy K, Stilling M.

- 2020 **Oral presentation: 34th Annual Meeting in European Association for Cardio-Thoracic Surgery (EACTS), online.**
Long-term outcome of patients with deep sternal wound infection following cardiac surgery – experiences of 114,869 patients in the SWEDEHEART registry.
Kaspersen AE, Nielsen SJ, Pétursdóttir Á, Sigurðsson MI, Jeppsson A, Guðbjartsson T.
- 2020 **Oral presentation: 30th Annual Meeting in Scandinavian Society for Research in Cardiothoracic Surgery (SSRCTS), Geilo, Norway.**
Selected for the Guðbjartsson Award Session.
Long-term outcome of patients with DSWI following cardiac surgery – results from the SWEDEHEART registry.
Kaspersen AE, Nielsen SJ, Pétursdóttir Á, Sigurðsson MI, Jeppsson A, Guðbjartsson T.
www.ssrctsnordic.com/wp-content/uploads/2020/02/Abstractbog_SSRCTS_2020.pdf (page 28, G session 4)
- 2019 **Oral presentation: 3rd Annual Meeting, Institut for Klinisk Medicin, Aarhus Universitet, Aarhus, Denmark.**
Selected to present a flash talk. Abstract considered as one of the 20 best out of more than 130 submitted.
Long-term outcome of patients with DSWI following cardiac surgery – preliminary results from the SWEDEHEART registry
Kaspersen AE, Nielsen SJ, Pétursdóttir Á, Sigurðsson MI, Jeppsson A, Guðbjartsson T.
www.medialib.cmcdn.dk/medialibrary/94000E12-7EC6-4C20-82BC-592D64344653/85CC5A3D-B207-EA11-8436-00155D0B0940.pdf (page 10)
- 2019 **Poster presentation: 69th Annual Meeting in Scandinavian Association of Thoracic Surgery (SATS) / 12th Joint Scandinavian Conference in Cardiothoracic Surgery, Stockholm, Sweden.**
Selected as the best poster presentation.
Long-term outcome of patients with DSWI following cardiac surgery – preliminary results from the SWEDEHEART registry
Kaspersen AE, Nielsen SJ, Pétursdóttir Á, Sigurðsson MI, Jeppsson A, Guðbjartsson T.
www.mkon.nu/RC_Data_FMS/Empire_data/files/file/SATS.SACTS-Scientific-Session-4-Poster_1.pdf (last page, no. 3064-A-1923).
- 2019 **Oral presentation: Surgical Scientific Congress, Reykjavik, Iceland.**
A new intelligent stocking for quantification of edema in the lower limbs
Kaspersen AE, Petersen OB, Hasenkam MJ.
- 2019 **Oral presentation: 29th Annual Meeting in Scandinavian Society for Research in Cardiothoracic Surgery (SSRCTS), Geilo, Norway.**
A new intelligent stocking for quantification of edema in the lower limbs
Kaspersen AE, Petersen OB, Hasenkam MJ.
www.ssrctsnordic.com/wp-content/uploads/2019/02/SSRCTS_2019_abstract_book.pdf (p. 13, oral session 4)
- 2018 **Poster presentation: 28th Annual Meeting in Scandinavian Society for Research in Cardiothoracic Surgery (SSRCTS), Geilo, Norway.**
A new intelligent stocking for quantification of edema in the lower limbs
Kaspersen AE, Petersen OB, Hasenkam MJ.
www.ssrctsnordic.com/wp-content/uploads/2018/11/28th-Annual-Meeting-Programme.pdf (page 8, poster session 1).
- 2017 **Poster presentation: 9th Danish Congress of Medical Student Research, Nyborg, Denmark.**
A new intelligent stocking for quantification of edema in the lower limbs
Kaspersen AE, Petersen OB, Hasenkam MJ.
www.studenterforskning.dk/wp-content/uploads/2017/03/abstractbog_2017.pdf (page 45, poster session 3)

PARTICIPATION IN CONFERENCES WITHOUT PRESENTATION

- 2020 12th Danish Congress of Medical Student Research, Denmark.
www.studenterforskning.dk/wp-content/uploads/2020/02/AbstractbogKMS2020.pdf (as organizer)
- 2019 11th Danish Congress of Medical Student Research, Sandbjerg, Sønderborg, Denmark.
www.studenterforskning.dk/wp-content/uploads/2019/03/abstractbog_KMS19.pdf (as organizer)
- 2018 10th Danish Congress of Medical Student Research, Sandbjerg, Sønderborg, Denmark.
www.studenterforskning.dk/wp-content/uploads/2018/03/abstractbog_KMS18_hp.pdf (as organizer)

COURSES

- 2021 **Course in enhancing practical skills in handling COVID-19 patients in the Intensive Care Unit**, Central Region Denmark. 4 hours.

- 2020 **Undergraduate education as Intensive Care/Medical Ventilation Assistant (VT)**, Central Region Denmark. 28 hours, incl. 8 hours of clinical introduction at Intensive Department at Regional Hospital West Jutland, Herning, Denmark.
- 2020 **Undergraduate surgical training/DreamTeam – Part 2**. Assisted in more than 50 abdominal surgical procedures at Randers Regional Hospital, Denmark.
- 2020 **Undergraduate surgical training/DreamTeam – Part 1**. Selected as one of the seven best students to participate in undergraduate surgical training part 2.
- 2019 **Magnetic Resonance Imaging (MRI) safety course**, Department of Radiology, Aarhus University Hospital, Denmark. 2 hours.
- 2016 **Vascular surgery anastomosis course**, Surgical Association of Danish Medical Students (SAKS), Aarhus, Denmark.
- 2015 **Laboratory Animal Science – FELASA category A course**, Aarhus University, Denmark.
- 2014 **Surgical and Procedural Skills Training Course – an introduction to the role as primary assistant in surgery**, Danish Association of Medical Students and Department of Clinical Medicine, Aarhus University, Denmark.
- 2014 **Course in basic suturing techniques**, Surgical Association of Danish Medical Students (SAKS), Aarhus, Denmark.
- 2014 **Undergraduate education as Nursing Assistant (SPV)**, Central Region Denmark and Danish Association of Medical Students. 74 hours, incl. 16 hours of clinical introduction at Aalborg University Hospital, Denmark.

CLINICAL EXPERIENCE

- 2020 **Assistant in surgery, Department of Urology, Aarhus University Hospital, Denmark**. Participation in more than 35 surgical procedures as primary assistant.
- 2020 **Assistant in surgery, Department of Cardiothoracic Surgery, Sahlgrenska University Hospital, Gothenburg, Sweden**. Participation in bypass (CABG) procedures as a part of my employment as Research Assistant.
- 2020 **Intensive Care/Medical Ventilation Assistant (VT), Intensive Department at Regional Hospital West Jutland, Herning, Denmark**. 32 hours of work experience (employments).
- 2020 **Assistant in surgery, Department of Abdominal Surgery, Randers Regional Hospital, Denmark**. Primary assistant in more than 40 abdominal surgical procedures as part of the undergraduate surgical training course (DreamTeam) part 2.
- 2019 **Assistant in surgery, Department of Cardiothoracic Surgery, Landspítali University Hospital, Reykjavik, Iceland**. Participation in bypass (CABG) procedures as a part of my research stay at Landspítali.
- 2015 **Assistant in surgery, Department of Cardiothoracic Surgery, Aalborg University Hospital, Denmark**. Participation in bypass (CABG) procedures and removal of lung tumours.
- 2014 – 2022 **Nursing assistant, different departments in different hospitals**. More than 100 hours of work experience (employments).
- 2014 – 2022 **Assistant in surgery, Department of Orthopaedic Surgery, Aarhus University Hospital, Denmark**. More than 500 hours as primary assistant in orthopaedic surgery (employments).
- 2010 – 2013 **Assistant in surgery, Department of Orthopaedic Surgery, Aalborg University Hospital, Denmark**. Assistant/observant in 15 surgical procedures on the spine, shoulders, hips and knees.

IT COMPETENCES

- Advanced level **SAS statistical analysis software**. Programming of complex procedures such as mixed models, cox regression and hazard analyses.
- Advanced level **Microsoft Office (Word, Excel, PowerPoint)**. Production of papers, reports, presentations, etc.
- Advanced level **CSS, HTML, PHP programming**. Experience in CMS systems like WordPress and TYPO3. Programming of websites including backend management systems for multiple users.
- Experienced level **Stata statistical analysis software**. Programming simple procedures and more complex procedures such as complex models.
- Experienced level **R statistical analysis software**. Programming of simple procedures.
- Experienced level **LaTeX**. Programming of dissertations and theses.

MEMBERSHIPS

- 2022 – **Dansk Thoraxkirurgisk Selskab**, Denmark.
- 2021 – **European Association for Cardio-Thoracic Surgery (EACTS)**, international.
- 2018 – **Scandinavian Society for Research in Cardiothoracic Surgery (SSRCTS)**, international.
- 2017 – 2022 **Society of Medical Student Research (SMS)**, Denmark.
- 2014 – 2022 **Surgical Association of Danish Medical Students (SAKS)**, Aarhus, Denmark.