

# AARH

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ANNUAL REPORT

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# 2024

## Research Center for Emergency Medicine

Department of Clinical Medicine  
Aarhus University

## Data sheet

### Annual Report 2024 – Research Center for Emergency Medicine

The annual report is composed and published in cooperation with researchers and colleagues affiliated with Research Center for Emergency Medicine.

April 2025

### Editor

Research Center for Emergency Medicine

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Emergency department, Aarhus University Hospital

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Editorial and cover: Sara Viskum Leth

## Table of contents

Preface.....	p.4
1. About us.....	p.5
2. Our Strategy.....	p.7
3. Projects and supervisors.....	p.8
4. National research projects.....	p.16
5. International research projects.....	p.18
6. Invited national lectures and presentations.....	p.21
7. Invited international lectures and presentations.....	p.22
8. Poster presentations.....	p.24
9. International collaboration.....	p.26
10. Grants and funding.....	p.30
11. Peer-reviewed publications.....	p.32

## Preface

Dear Colleague,

In The Research Center for Emergency Medicine, we are dedicated to advancing the field of emergency medicine through innovative research and development. The center is staffed by a team of dedicated researchers and medical professionals committed to improving emergency care quality.

In this annual report, we aim to provide insight into the work and activities carried out at the Research Center in 2024. In the first section of the report, we provide an overview of who we are, our mission, and our approach to emergency medicine.. In the following section, we list our academic program, activities and our publications from 2024.

We are always looking for new researchers and collaborators, so do not hesitate to contact us by [cfa@clin.au.dk](mailto:cfa@clin.au.dk) and follow us on our social media [LinkedIn](#) and [Facebook](#).

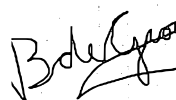
Finally, we want to thank all our friends, colleagues, and partners -national and international- for their valuable collaboration throughout the year.

We hope you will find the report interesting and inspiring.

Best regards



Marianne Lisby,  
Associate Professor, PhD., MHSc, RN  
Research Leaser



Bas de Groot  
Professor, PhD, MD



## 1. About us

We are the Research Center for Emergency Medicine (RECEM) at Aarhus University and Aarhus University Hospital, dedicated to advancing research in this evolving medical specialty. We collaborate with the emergency department and host researchers at all levels, from students to professors. Emphasizing interdisciplinary research, we integrate diverse healthcare professions and methods to drive innovation. Our goal is to foster a dynamic research environment, continuously expanding collaborations and projects in emergency medicine.

### Our mission

We perform national and international interdisciplinary research with the aim to provide evidence-based and cost effective treatment and improve (patient-reported-) outcomes of all ED patients in a sustainable way.

### Our vision

In 5-10 years RECEM is nationally leading and internationally acclaimed within the research field of emergency medicine by its research focusing on appropriate & value-based healthcare, transitional research and implementation and education of knowledge in the acute care chain.

## Organization and research network

An associate professor in Emergency Medicine is the research leader of RECEM. Along with the professor in Emergency Medicine, they have the overall responsibility for the center. A flat organizational structure with a democratic, equal, and open culture, is maintained.

Much of our research activities are structured in networks uniting researchers with shared interests across specialties and locations. While led by key researchers, these networks operate autonomously under the guidance of RECEM's head of research. By welcoming external collaborators, we foster a uniquely interdisciplinary research environment. See our networks outlined in Figure 1.

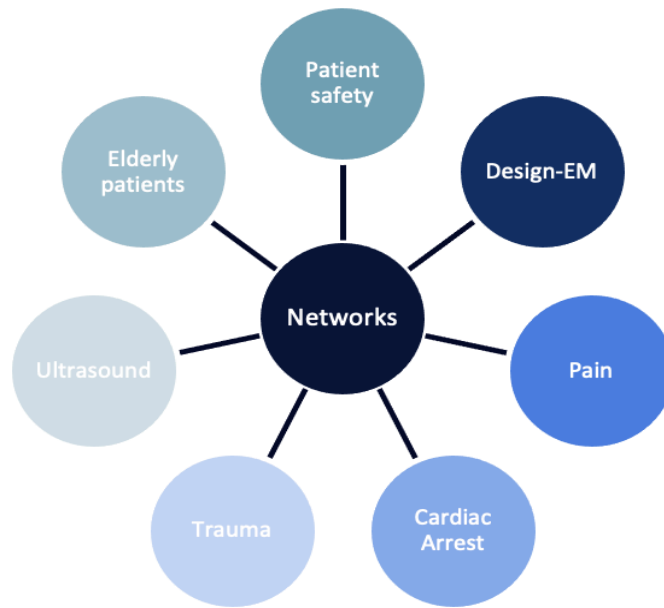


Figure 1. Research networks in RECEM.

### Staff and researchers

Our research environment comprises diverse academic positions, including a professor, associate professors, PhD students, and various student researchers, reflecting our commitment to interdisciplinary collaboration, and academic development. See Figure 2 for an overview of staff, students and affiliated researchers in the center.

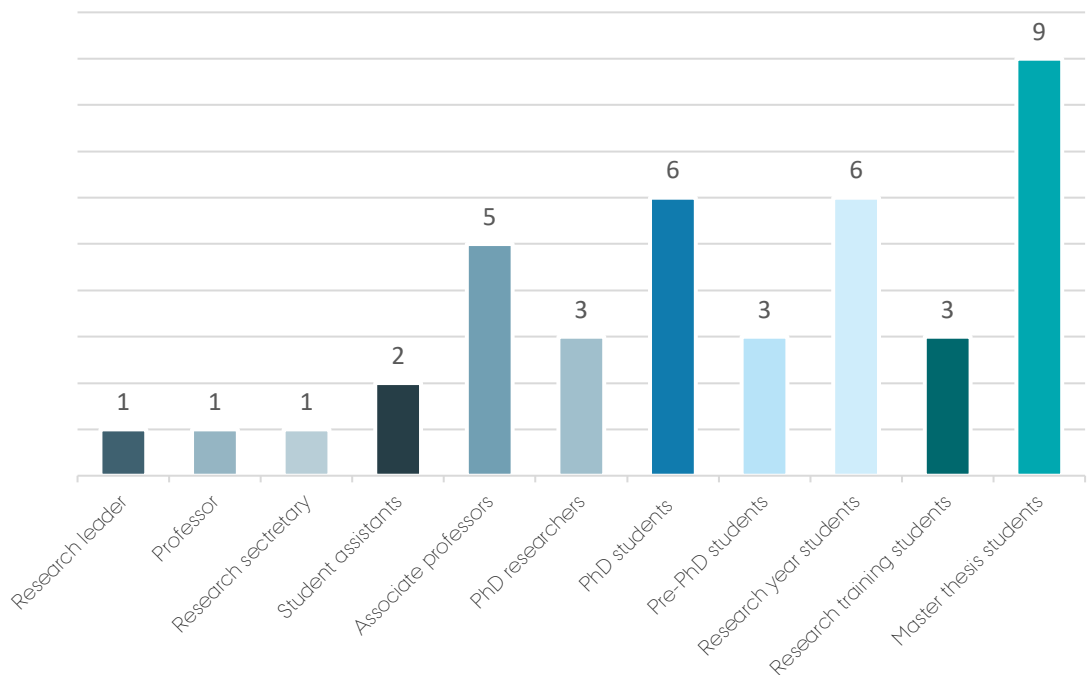


Figure 2. Staff, students and affiliated researchers in RECEM.

The total number of staff, students and researchers is 38 (it is possible to have several affiliations).

## 2. Our Strategy

RECEM's strategy for 2024-2029 aims at advancing research efforts, developing a strong research infrastructure, and expanding education in an inspiring research environment.



Figure 3. Research Strategy for RECEM.

In the next 5 years we will focus on the three themes; appropriate and value-based health care, transitional care, and implementation science of newly gained knowledge. The existing research networks will focus their research on these themes.

The research strategy also aligns with the strategy of AUH and AU Health for 2023-2027, especially the goal *"to do research with and for our patients"*. Our research should benefit all patients regardless of socioeconomic status, ethnicity, and gender. We therefore strive to involve all population groups and types of patients in your research.

### 3. Projects and supervisors

Bas de Groot, MD, PhD, Professor

Main supervisor:

Research year project:

Age and Frailty-Adjusted Risk Stratification: Towards Use and Assessment of the International Early Warning Score (IEWIS) and Clinical Frailty Score (CFS) in Emergency Departments and Ambulances: Protocol.

*Tobias Rygaard Kristensen, stud.med.*

Co-supervisor:

Research year project:

Assessing the Knowledge of Blunt Cerebrovascular Injuries Among Physicians Managing Trauma Patients: A Multicenter Survey in Denmark and the Netherlands

*Philip Uhd Weldt Nielsen, stud.med.*

Research year project:

From Trauma to Stroke: Blunt Cerebrovascular Injuries in Denmark

*Philip Uhd Weldt Nielsen, stud.med.*

Marianne Lisby, RN, MHSc, PhD, Associate professor and Research Leader

Main supervisor:

PhD project:

*Potentially preventable hospital admissions and multi-morbidity in municipal health care.*

Trine Worm Thøgersen, RN, MSc., PhD Fellow.



**Master thesis:**

Association between nurse work experience and medication-related Missed Nursing Care: a national cross-sectional study in Danish Emergency Departments

*Louise Nørskov Nielsen, stud.MHSc.*

**Master thesis:**

Association between the extent of the discharge information and 30-day readmission.

*Malene Petersen, stud.cur.*

**Master thesis:**

Physicians' considerations when prescribing broad-spectrum antibiotic treatment with Piperacillin/Tazobactam in the emergency department: A questionnaire survey.

*Sofie Damgaard Mortensen, stud.med*

**Elective research course:**

Oral versus Intravenous use of Clarithromycin in the Emergency Department: A protocol of a Retrospective Cohort Study in Danish Emergency Departments.

*Christian Bach Sørensen, stud.med*

**Co-supervisor:****Research year project:**

Assessing the Knowledge of Blunt Cerebrovascular Injuries Among Physicians Managing Trauma Patients: A Multicenter Survey in Denmark and the Netherlands

*Philip Uhd Wendt Nielsen, stud.med.*

**Research year project:**

Age and Frailty-Adjusted Risk Stratification: Towards Use and Assessment of the International Early Warning Score (IEWWS) and Clinical Frailty Score (CFS) in Emergency Departments and Ambulances.

*Tobias Rygaard Kristensen, stud.med.*

## Kasper Glerup Lauridsen, MD, PhD, Associate professor

### Main supervisor:

#### PhD project:

Ultrasound guided bedside thoracentesis and manual fluid removal in the Emergency Department

*Sandra Thun Langsted, MD, PhD Fellow.*

#### PhD project:

The Ventilation during In-hospital Cardiac Arrest (VENT-IHCA) study.

*Johannes Wittig, MD, PhD Fellow.*

#### PhD project:

Novel Cardiopulmonary Resuscitation Training Strategies to Improve In-hospital Cardiac Arrest Outcomes

*Dung Nguyen Riis, MD, PhD Fellow.*

#### PhD project:

Ward Rounds with Older Patients with Frailty: Embedding Patient and Informal Caregiver Perspectives to Inform Medical Education

*Lene Holst Andersen MD, PhD Fellow.*

#### Research year project:

Cardiac Telemetry Following Uncomplicated Direct Current Cardioversion – A Randomized Controlled Multicenter Trial.

*Camilla Alnor Frost, stud.med.*

#### Research year project:

Handover of information from ward to the cardiac arrest team during in-hospital cardiac arrest: Identifying deficiencies and building a new model

*Cecilie Langkilde Lauesen, stud.med.*

**Research year project:**

A Novel Risk Assessment Tool for Hyperkalemia and the Development of Cardiac Arrhythmia.

*Peter Jennings, stud.med.*

**Master thesis:**

Risk of cardiac arrhythmias during initiation of flecainide treatment for arterial fibrillation patients.

*Freja Darmer, stud.med.*

**Master thesis:**

Identifying the needs and optimal support for healthcare professionals after in-hospital cardiac arrest: A qualitative study.

*Sacha Roest, stud.med.*

**Master thesis:**

Optimal communication patterns to reduce chest compression pause durations during in-hospital resuscitation.

*Cæcilie Vuust, stud.med.*

**Master thesis:**

Barriers during in-hospital cardiac arrest resuscitation attempts and chest compression quality.

*Freia Agervig, stud.med., Anna Vang Østergaard, stud.med. and Amalie Gedde, stud.med.*

**Master thesis:**

Automated external defibrillators vs manual defibrillators during in-hospital cardiac arrest.

*Moritz Nettinger, stud.med.*

**Master thesis:**

Cardiopulmonary resuscitation skill stations in a bed or not: A simulation-based randomized controlled trial.

*Magnus Østrup Brøgger, stud.med.*

**Research project:**

CPR coaching for pediatric out-of-hospital cardiac arrest.

*Emma Bürgstein, Paramedic.*

**Research project:**

Ward staff ventilation quality during in-hospital cardiac arrest.

*Jim Jæger Frandsen, stud.med.*

**Co-supervisor:****PhD project:**

Prediction models for survival after in-hospital cardiac arrest as a basis for Do-Not-Attempt-Cardiopulmonary-Resuscitation decisions

*Hriul Karium, MD, PhD Fellow.*

Claus Sixtus, RN, MHSc, PhD, MEANS, Associate professor

**Main supervisor:****Master thesis:**

Children and adolescents' experiences of active participation in radiological examinations -a qualitative study.

*Jannie Steinmeier Larsen, MHSc. stud*

Jesper Weile, MD, PhD, Associate professor

**Main supervisor:****PhD project:**

PoCUS in dyspnea and pneumonia in emergency medicine.

*Stig Holm Ovesen, MD, PhD Fellow.*

**Research year project:**

Ultrasound guided vascular access nurse training program, development and impact.

*Rasmus Herløw, stud.med.*

**Research year project:**

Ultrasound screening for tuberculosis in people living with HIV in low income settings.

*Camilla Ulsøe, stud.med*

**Co-supervisor:****PhD project:**

Ultrasound Guided Bedside Thoracentesis Study.

*Sandra Langsted, MD. PhD Fellow*

[Nikolaj Raaber, MD, PhD, Associate professor](#)

**Main supervisor:****Research year project:**

From Trauma to Stroke: Blunt Cerebrovascular Injuries in Denmark.

*Philip Uhd Wendt Nielsen, stud.med.*

**Research year project:**

Assessing the Knowledge of Blunt Cerebrovascular Injuries Among Physicians

Managing Trauma Patients: A Multicenter Survey in Denmark and the Netherlands.

*Philip Uhd Weldt Nielsen, stud.med.*

**Master thesis:**

5-Year Multi-Center Retrospective Cohort Study of Central Metatarsal Fractures –  
A Quality Assurance Study

*Ahmad, Younis Khalaf Khitir, stud.med.*

Karen Vestergaard Andersen, RN, PhD, researcher

Co-supervisor:

**Master thesis:**

Association between medication-related Missed Nursing Care and nurse work experience: a national cross-sectional study in Danish Emergency Departments.

*Louise Nørskov Nielsen, MHSc., stud*

Stig Holm Ovesen, MD, PhD Fellow

Co-supervisor:

**Research year project:**

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**Research year project:**

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Johannes Ulrich Wittig, MD, PhD Fellow

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Automated external defibrillators vs manual defibrillators during in-hospital cardiac arrest.

*Moritz Nettinger, stud.med.*

**Master thesis:**

Barriers during in-hospital cardiac arrest resuscitation attempts and chest compression quality.

*Anna Vang Østergård, stud.med. & Freia Agervig, stud.med. & Amalie Gedde, stud.med.*

**Master thesis:**

Cardiopulmonary resuscitation skill stations in a bed or not: A simulation-based randomized controlled trial.

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**Research project:**

Ward staff ventilation quality during in-hospital cardiac arrest.

*Jim Jæger Frandsen, stud.med.*

Trine Worm Thøgersen, BScN, MSc., PhD Fellow

**Co-supervisor:****Master thesis:**

Association between the extent of the discharge information and 30-day readmission.

*Malene Petersen, stud.cur.*

Sanne Schjødt, stud.med

**Co-supervisor:****Master thesis:**

Emergency physicians' considerations when prescribing Piperacillin/Tazobactam: a survey.

*Sofie Damgaard Mortensen, stud.med.*

**Elective research course:**

Oral versus Intravenous use of Clarithromycin in the Emergency Department: A protocol of a Retrospective Cohort Study in Danish Emergency Departments

*Christian Bach Sørensen, stud.med.*

#### 4. National research projects

**Bas de Groot, MD, PhD, Professor**

From Trauma to Stroke: Blunt Cerebrovascular Injuries in Denmark.

*PI: Nicolaj Raber.*

**Marianne Lisby, RN, MHSc, PhD, Associate professor and Research Leader**

COPD and socially marginalized patients. Prevalence and treatment of reduced lung function among patients within the social nurses' target group

*PI: Charlotte Suppli Ulrik, Hvidovre Hospital*

*Investigator RECEM: Marianne Lisby*

Important Visible and Invisible Emergency nursing.

*PI: Nanna Fauerholdt Skov, RECEM.*

**Karen Vestergaard Andersen, RN, PhD, Researcher**

Interdisciplinary Network for Acute Research. AUDIT screening of acute patients: a flashmob study

*PI: Karen Vestergaard Andersen, and Gitte Boier Tygesen, RECEM*



### Gitte Boier Tygesen, RN, PhD, Research Manager

Interdisciplinary Network for Acute Research. AUDIT screening of acute patients: a flashmob study

*PI: Karen Vestergaard Andersen, and Gitte Boier Tygesen, RECEM*

Important Visible and Invisible Emergency nursing.

*PI: Nanna Faurholdt Skov*

Brachial plexus nerve block versus fracture haematoma block for closed reduction of distal radius fracture in adults - The BLOCK Trial

*PI: Anders Kehlet Navne Nørskov*

A Point-of-Care Ultrasound-Driven Diagnostic Pathway for Emergency Department Patients with Dyspnea: A Randomized Controlled Trial

*PI: Stig Holm Ovesen*

### Stig Holm Ovesen, MD, PhD Fellow

The association between serial measurements of cardiac parameters on ultrasound and prognosis in adult emergency department visits: a systematic review.

*PI: Michael Dan Arvig*

Head trauma Evaluation Algorithm for the Deployment of Warranted Imaging Safely and Efficiently.

*PI: Rozh Al-Mashhadi*

STROKE AI: AI-assisted neuroradiological stroke Triage in a Tertiary Stroke centre.

*PI: Ole Graumann*

A Point-of-Care Ultrasound-Driven Diagnostic Pathway for Emergency Department Patients with Dyspnea: A Randomized Controlled Trial.

*PI: Stig Holm Ovesen, RECEM.*

Using virtual reality to assess competence in ultrasound-guided peripheral venous cannulation.

*PI: Ole Graumann*

#### Johannes Ulrich Wittig, MD, PhD Fellow

Cardiac arrest: The Ventilation during In-hospital Cardiac Arrest (VENT-IHCA) study.

*PI: Kasper Glerup Lauridsen, RECEM.*

#### Trine Worm Thøgersen, RN, MSc., PhD Fellow

*Potentially preventable hospital admissions and multi-morbidity in municipal health care.*

*PI: Trine Worm Thøgersen.*

#### Nanna Faurholdt Skov, RN, MSc.

Important Visible and Invisible Emergency nursing.

*PI: Nanna Faurholdt Skov, RECEM.*

## 5. International research projects

#### Bas de Groot, MD, PhD, Professor

European Taskforce on Geriatric Emergency medicine. Frailty in European Emergency Department (FEED) trial.

*PI: James van Oppen.*

European Taskforce on Geriatric Emergency medicine. Patient Reported Outcome Measures for older patients in the ED.

*PI: Bas de Groot and James van Oppen.*

Characteristics and outcomes of emergency department patients across health care systems: an international multicenter cohort study.

*PI: Bas de Groot*

European Society of Intensive Care Medicine (ESICM). ESICM consensus-based recommendations for the management of very old patients in intensive care.

*PI: Michael Beil*

### Marianne Lisby, RN, MHSc, PhD, Associate professor and Research Leader

Resilient and safe Hospital – what can we learn from Covid-19?

*PI: Marianne Lisby, RECEM*

*Investigators (RECEM): Gitte Boier Tygesen, Hans Kirkegaard and Sara Viskum Leth.*

Lessons learnt from translating the MISSCARE survey to the Nordic languages.

*PI: Kjersti Grønning, NTNU, Trondheim, Norway*

*Investigators (RECEM): Marianne Lisby, Karen Vestergaard Andersen, and Hanne Mainz.*

I-NEEDs: International collaboration on Nursing essential in Emergency Departments: Safer nursing for older patients.

*PI: Marianne Lisby, RECEM.*

### Kasper Glerup Lauridsen, MD, PhD, FERC, FAHA, Associate professor

Standardizing Communication during In-hospital Resuscitation.

*PI: Kasper Glerup Lauridsen, RECEM.*

### Gitte Boier Tygesen, PhD., MHSc, RN, Research Manager

Resilient and safe hospitals: Lessons learnt from Covid-19. (DESIGN-EM).

*PI: Marianne Lisby, RECEM.*

VASOSHOCK. Early initiated vasopressor therapy vs. standard care of primarily fluid therapy in hypotensive patients in the emergency department – A pragmatic, multi-center, superiority, randomized controlled trial

*PI: Mikkel Brabrand and Lasse Paludan Bentsen*

#### Stig Holm Ovesen, MD, PhD Fellow

A survey to investigate the diagnostic process of deep vein thrombosis in European emergency departments.

*PI: Hans Joakim Myklebust-Hansen*

The Second International Consensus Conference on Lung Ultrasound (ICC LUS 2.0) by WINFOCUS.

*PI: Irene Ma and Francesco Corradi*

#### Johannes Ulrich Wittig, MD, PhD Fellow

European Resuscitation Council Resuscitation Guidelines 2025

*PI: Robert Greif*

#### Karen Vestergaard Andersen, RN, PhD, researcher

I-NEEDs: International collaboration on Nursing essential in Emergency Departments: Safer nursing for older patients.

*PI: Marianne Lisby*

Lessons learnt from translating the MISSCARE survey to the Nordic languages

*PI: Kjersti Grønning, NTNU, Trondheim, Norway*

*Investigators: Marianne Lisby, Karen Vestergaard Andersen, and Hanne Mainz, RECEM*

#### Sara Viskum Leth, cand.scient.san.pub

Resilient and safe hospitals: Lessons learned from Covid-19. (DESIGN-EM).

*PI: Marianne Lisby, RECEM*

## 6. Invited national lectures and presentations

**Bas de Groot, MD, PhD, Professor**

Research Across Countries. Lessons learned.

*September 2024, Sandbjerg*

**Kasper Glerup Lauridsen, MD, PhD, FERC, FAHA, Associate professor**

Resuscitation User Network Symposium, terminering i genoplivning, Dagrofa.

*Juni 2024, Vejle*

**Claus Sixtus, RN, MHSc(Nurs), PhD, MEANS, Associate professor**

Signs and symptoms in hospitalized children triggering nurses' awareness – a qualitative study across Denmark and Norway.

*November 2024, Middelfart*

**Gitte Boier Tygesen, PhD., MHSc, RN, Research Manager**

Tværasektoriel netværkskonference, Behandling i 'Det nære Sundhedsvæsen' som alternativ til akut indlæggelse - danske tiltag. Optimering af patientforløb gennem direkte kommunikation: Foreløbige resultater fra en samarbejdsmodel mellem præhospital og akutafdeling. Tygesen GB, Thomsen J & Snogdal K.,

*October 2024, Aarhus.*

**Nanna Faurholdt Skov, RN, MSc.**

Oral presentation at Sandbjerg Research Symposium 2024.

*September 2024, Sandbjerg*

**Karen Vestergaard Andersen, RN, PhD, Researcher**

Oral presentation. Sandbjerg Research Symposium 2024.

*September 2024, Sandbjerg*

## 7. Invited international lectures and presentations

### Bas de Groot, MD, PhD, Professor

The association between emergency department length of stay and relevant clinical outcomes.

*Dutch Emergency Medicine Conference.  
June 2024.*

Hoe wordt je professor? Science day.

*Amsterdam University Medical Centre.  
November 2024.*

### Kasper Glerup Lauridsen, MD, PhD, FERC, FAHA, Associate professor

Learning from mistakes in Education.

*Emergency Medicine Conference.  
April 2024, Graz Austria*

Peer-review.

*YERC masterclass webinar.  
June 2024, Online.*

Literature search & project design.

*YERC Resuscitation Science Masterclass  
July 2024, Graz, Austria.*

Termination of Resuscitation.

*Hjertelungeredningskongressen.  
October 2024, Stockholm, Sverige*

Measuring ventilation during resuscitation.

*European Resuscitation Council Congress (ERC congress).  
November 2024, Athens, Greece.*

Peer-review.

*YERC masterclass webinar.*

*December 2024. Online.*

### Gitte Boier Tygesen, Phd., MHSc, RN, Research Manager

Enhancing Prehospital and Emergency Department pathways.

*European Society For Emergency Medicine (EUSEM).*

### Karen Vestergaard Andersen, RN, PhD, Researcher

A pilot study on virtual reality for pre-procedural anxiety in children.

*European Society For Emergency Medicine (EUSEM).*

*October 2024. Copenhagen*

### Stig Holm Ovesen, MD, PhD Fellow

The 2nd International Consensus Conference on Lung Ultrasound (ICC LUS 2.0)

*WINFOCUS World Congress 2024*

*November 2024.*

Diagnosis is not an end in itself – PoCUS in Dyspnea.

*European Emergency Medicine Congress*

*October 2024.*

### Trine Worm Thøgersen, BScN, MSc., PhD Fellow

Multimorbidity, readmissions and mortality among older patients with Ambulatory Care Sensitive Conditions: A Danish nationwide cohort study (Best abstract nominee).

*European Society For Emergency Medicine (EUSEM).*

*October 2024, Copenhagen*

### Johannes Ulrich Wittig, MD, PhD Fellow

International early-career networks in emergency medicine, 11th Emergency Medicine Congress,

*April 2024, Graz, Austria*

Survivor Communities in Europe, European Resuscitation Council webinar, Heart Restart: Survivor Stories and New Frontiers in Resuscitation.

*October 2024.*

Caught between hyper- and hypoventilation,

*Congress of the European Resuscitation Council 2024.*

*November 2024, Athens, Greece*

Beatmung unter Reanimation – Gefangen zwischen Hyper- und Hypoventilation“ [GERMAN]], Train-the-trainer day, Klinikum Altenburger Land GmbH,

*December 2024, Thüringen, Germany, Online.*

## 8. Poster presentations

### Bas de Groot, MD, PhD, Professor

The association between emergency department length of stay and relevant clinical outcomes depends on age and triage urgency: an observational multi-centre cohort study.

*European Society For Emergency Medicine (EUSEM).*

### Karen Vestergaard Andersen, RN, PhD, Researcher

The effect of Virtual Reality on pre-procedural anxiety in children – a pilot randomized controlled trial.

*Danish Orthopedic Society Congress.*



### Gitte Boier Tygesen, PhD., MHSc, RN, Research Manager

Preliminary findings from a study on prehospital and emergency department collaboration: Does direct communication lead to optimized patient pathways and better patient outcomes?

*European Society For Emergency Medicine (EUSEM).*

Speaking up about patient safety concerns.

*Patient safety conference.*

Prehospital and Emergency Department Collaboration: Does direct communication improve outcomes?

*Research day at Gødstrup Hospital*

AKUT TRIVSEL, Evaluering af en trivselsintervention i akutafdelingen.

*Research day Gødstrup Hospital.*

Speaking up about patient safety concerns.

*Research day at Gødstrup Hospital.*

### Stig Holm Ovesen, MD, PhD Fellow

Point-of-care Lung Ultrasound in Emergency Medicine. A Scoping Review with an Interactive Database.

*Research Day at Horsens Regional Hospital.*

### Nanna Faurholdt Skov, RN, MSc.

Association between readmission and length of stay in the Acute admission unit for patients with alcohol-related diagnosis - a cohort study.

*European Society For Emergency Medicine (EUSEM).*

[Camilla Ulsøe, stud.med.](#)

The role of point-of-care ultrasound at a rural hospital in northwest Tanzania: An ethnographic field study

*European Society For Emergency Medicine (EUSEM).*

[Cecilie Langkilde Lauesen, stud.med](#)

Handover from Ward Staff to Cardiac Arrest Teams during In-Hospital Cardiac Arrests: A Clinical Cohort Study.

*European Resuscitation Council Congress (ERC congress).*

[Philip Uhd Wendt Nielsen, stud.med](#)

Assessing the Knowledge of Blunt Cerebrovascular Injuries Among Physicians Managing Trauma Patients: A Multicenter Survey in Denmark and the Netherlands.

*Sandbjerg Symposium.*

## 9. International collaboration

[Bas de Groot, MD, PhD, Professor](#)

- Drs. Wouter Raven and Nicoline Meijs, MSc. Department of Emergency Medicine, Leiden University Medical Centre, Leiden, the Netherlands.
- Dr. Bart Candel, PhD, Department of Emergency Medicine, Maxima Medical Centre, Veldhoven, Netherlands.
- Dr. Jorgos Alexandridos, Department of Emergency Medicine, Catharina Wilhelmina Ziekenhuis, Nijmegen.
- Prof.dr. Amith Shetty, Department of Emergency Medicine, Westmead Hospital, Sydney, New South Wales, Australia.
- Dr. Menno Gaakeer, Department of Emergency Medicine, ADRZ Hospital, Goes.

- Wendy Thijssen. Department of Emergency Medicine, Catharina Hospital, Eindhoven, The Netherlands.
- Heleen Lameijer. Department of Emergency Medicine, Medical Center Leeuwarden, the Netherlands
- Michella Moscova, associate professor. Department of Emergency Medicine, University of New South Wales, Sydney, New South Wales, Australia
- Prof. dr. Timothy Coats Leicester, United Kingdom.
- Prof. dr. Simon Conroy London, United Kingdom.
- Dr. Pieter Heeren Leuven, Belgium.
- Dr. Stephen Lim United Kingdom.
- Dr. Jacinta Lucke Winterswijk, Netherlands.
- Prof. dr. Simon Mooijaart Leiden, Netherlands.
- Prof. dr. Christian H Nickel Basel (Switzerland).
- Dr Rose Penfold, United Kingdom.
- Prof. dr. Katrin Singler Berlin (Germany).
- Dr. James D. van Oppen, Leicester, United Kingdom.
- Drs. Dorothee Riedlinger, Berlin, Germany.
- Prof. dr. Michael Beil, Scotland, Department of Medicine, NHS Highland (ESICM HSRO Section), Inverness, UK.

#### Marianne Lisby, RN, MHSc, PhD, Associate professor and Research Leader

- Professor Helga Bragadóttir, University of Reykjavik, Iceland
- Professor Ingibjörk Hjaltadóttir, University of Reykjavik, Iceland
- Associate professor, Ann-Charlotte Falk, Karolinska University, Sweden
- Dr. Med Carolyn Nymark, Karolinska University, Sweden
- Associate professor, Ann-Christin von Vogelsang, Karolinska University, Sweden
- Dr. Med., PhD, Lena Berg, Dalarna University, Sweden
- Professor Beate André, Norwegian University of Science and Technology, Norway

- Professor Kjersti Grønning, Norwegian University of Science and Technology, Norway
- Associate professor, Katarina Göranson, Darlarna University, Sweden
- Professor Jonathan Drennan, University College, Cork, Ireland
- Professor Julie Considine, Deakin University, Australia
- Professor Kate Curtis, University of Sydney, Australia
- Associate professor, Patricia Dykes, Harvard Medical School & Brigham and Women's Hospital, Boston, MA, USA.
- Professor David W. Bates, Harvard Medical School & Brigham and Women's Hospital, Boston, MA, USA - Assistant professor Ronen Rozenblum, Harvard Medical School & Brigham and Women's Hospital, Boston, MA, USA
- Professor, Li Zhou, Harvard Medical School & Brigham and Women's Hospital, Boston, MA, USA - Professor, Daniele Marcia, LUISS Business School, Rome, Italy
- Associate professor, Fausto Di Vincenzo, University of Pescara, Abruzzo, Italy

**Kasper Glerup Lauridsen, MD, PhD, FERC, FAHA, Associate professor**

- Vinay Nadkarni, Children's Hospital of Philadelphia.
- Aaron Donoghue, Children's Hospital of Philadelphia.
- Adam Cheng, University of Calgary
- Robert M. Sutton, Children's Hospital of Philadelphia
- Professor Robert Greif, University of Bern
- Jimena del Castillo, Hospital Materno infantil Gregorio Marañón, Madrid
- Raul Gazmuri, University of Chicago.

**Gitte Boier Tygesen, PhD., MHSc, RN, Research Manager**

- Professor Daniele Mascia, Libera Università Internazionale degli Studi Sociali (LUISS) Guido Carli, Rome, Italy
- Associate professor Fausto Di Vincenzo, Università degli Studi "G. d'Annunzio" Chieti-Pescara, Italy.

- Associate professor, Katarina Göransson, Karolinska Institute and Dalarnes University, Sweden
- Kate Curtis, Professor, The University of Sydney, Australia

#### Stig Holm Ovesen, MD, PhD Fellow

- Hans Joakim Myklebust-Hansen, Ostfold Hospital Trust, Norway
- Prof. Francesco Corradi, Associate Professor in Anesthesiology, PhD. of Ultrasonography, Specialist in Internal Medicine and Anesthesiology, Department of Surgical, Medical and Molecular Pathology and Critical Care Medicine University of Pisa, Italy.
- Irene Ma, MD, PhD, FRCPC, FACP, RDMS, RDCS, FAIUM Professor,
- John A. Buchanan Chair, Division of General Internal Medicine, Cumming School of Medicine, University of Calgary, Canada.

#### Johannes Ulrich Wittig, MD, PhD Fellow

- Dr Simon Orlob, Institute for Emergency Medicine, University Hospital Schleswig-Holstein, Schleswig-Holstein, Germany and Department of Anesthesiology and Intensive Care Medicine, Medical University of Graz, Styria, Austria

#### Nanna Faurholdt Skov, RN, MSc.

- Associate professor, Katarina Göransson, Dalarna University, Sweden
- Professor Julie Considine, Deakin University, Australia

#### Cecilie Langkilde Lauesen, stud.med

- Professor Vinay Nadkarni, MD, MS, FAHA, FCCM, FERC, Children's Hospital of Philadelphia, USA.
- Associate professor Sune Dueholm Müller, University of Oslo, Norway.

## 10. Academic review committee assessments

### Bas de Groot, MD, PhD, Professor

- PhD assessment. Kaoutar Azijli. Vrije Universiteit Amsterdam, The Netherlands.
- PhD assessment. Carmen Sophie van Dam. Vrije Universiteit Amsterdam, The Netherlands.
- PhD assessment. Agneta H. Calf. University of Groningen, The Netherlands.

### Marianne Lisby, RN, MHSc., PhD, Associate Professor and Research Leader

- PhD protocol, Graduate School of Health, Southern Denmark University, Denmark.
- Assistant professor position, Southern Denmark University, Denmark.

### Kasper Glerup Lauridsen, MD, PhD, FERC, FAHA, Associate Professor

- PhD dissertation, Jean Clint Louis. Chair of Committee, University of Navarra, Spain.
- PhD dissertation, Nadjia Albertsen. Opponent. Aalborg University, Denmark.

### Claus Sixtus, RN, MHSc(Nurs), PhD, MEANS, Associate Professor

- PhD dissertation, Caroline S Langkjaer. Opponent, North Zealand Hospital, Hilleroed, Denmark.

## 10. Grants and funding (as main applicant only and incl. overhead (institution))

### Danmarks Frie Forskningsfond

Bas de Groot, MD, PhD, Professor (3,100,000 DKK).

### Louis-Hansen Fonden

Nanna Faurholdt Skov, RN, MSc.(750.000 DKK).

### Central Denmark Region

Nanna Faurholdt Skov, RN, MSc.(491.000 DKK).

### Gødstrup Hospital

Gitte Boier Tygesen, PhD., MHSc, RN, (400.000 DKK).

### Novo Nordic Foundation.

Claus Sixtus, RN, MHSc(Nurs), PhD, MEANS, Associate professor (300.000 DKK).

### Puljen for sundhedsvidenskabelige professioner

Nanna Faurholdt Skov, RN, MSc.(286.715 DKK).

### Salling Fondene

Gitte Boier Tygesen, PhD., MHSc, RN, (250.000 DKK).

### Trygfonden

Bas de Groot, MD, PhD, Professor (248.874 DKK).

### Laerdal Foundation.

Johannes Ulrich Wittig, MD, PhD Fellow (200.000 DKK).

### Aarhus Universitets Forskningsfond

Bas de Groot, MD, PhD, Professor (150.000 DKK).

### Research Year Scholarship, Aarhus University

Philip Uhd Wendt Nielsen, stud.med. (130.000 DKK).

### Dagmar Marshalls Foundation

Philip Uhd Wendt Nielsen, stud.med. (60.0000 DKK).

### Købmand Inger Bonnes Foundation

Philip Uhd Wendt Nielsen, stud.med. (45.000 DKK).

## 11. Peer-reviewed publications

1. Arvig, MD, Lindberg, MJH, Wamberg, J, Posth, S, **Weile, JB**, Petersen, HØ, Mørkenborg, MD, Leth, R & Lauridsen, H 2024, 'Fokuseret abdominal UL-skanning', Ugeskrift for Læger, bind 186, nr. 17. <https://doi.org/10.61409/V10230649>
2. Arvig, M. D., Falster, C., **Holm Ovesen, S.**, Leth, R., & Brabrand, M. (2024). The association between serial measurements of cardiac parameters on ultrasound and prognosis in adult emergency department visits: a systematic review protocol. *Dansk Tidsskrift for Akutmedicin*, 7(3), 34–38. <https://doi.org/10.7146/akut.v7i3.144287>
3. Aghaie J, **Lisby M**, Jessen MK. Physician awareness of fluid volume administered with intravenous antibiotics - a structured interview-based study. *Clin Exp Emerg Med*. 2024 May 23. doi: 10.15441/ceem.24.219. Epub ahead of print. PMID: 38778490.
4. Bichmann A, **Wittig J**, **Lauridsen KG**, Rogers J. The Young European Resuscitation Council – A catalyst for the next generation of the resuscitation community. *Resuscitation Plus*. 2024 Jun 25;19:100699. doi: 10.1016/j.resplu.2024.100699.
5. Blennow Nordström, E, Evald, L, Mion, M, Segerström, M, Vestberg, S, Ullén, S, Heimburg, K, Gregersen Oestergaard, L, Grejs, AM & Keeble, TR et al. 2024, 'Combined use of the Montreal Cognitive Assessment and Symbol Digit Modalities Test improves neurocognitive screening accuracy after cardiac arrest: A validation sub-study of the TTM2 trial', *Resuscitation*, bind 202, 110361. <https://doi.org/10.1016/j.resuscitation.2024.110361>
6. **Blaabjerg, M**, Ågård, AS & **Lisby, M** 2024, 'How does a nursing crisis management intervention impact relatives' experiences in two trauma centres? A



- time-series study', *International Journal of Nursing Studies Advances*, bind 6, 100197. <https://doi.org/10.1016/j.ijnsa.2024.100197>
7. Bro-Jeppesen, J, Grejs, AM, Andersen, O, Jeppesen, AN, Duez, C & **Kirkegaard, H** 2024, 'Soluble Urokinase-Type Plasminogen Activator Receptor in Comatose Survivors After Out-of-Hospital Cardiac Arrest Treated with Targeted Temperature Management', *Therapeutic Hypothermia and Temperature Management*, bind 14, nr. 4, s. 243-251. <https://doi.org/10.1089/ther.2023.0039>
  8. Brünés, N, Lindstroem, MB, Ulrik, CS, Andersen, O, **Lisby, M**, Godtfredsen, NS, Hansen, TL, Pisinger, C, Graven, V & Marsaa, K et al. 2024, 'Opportunistic screening for COPD among socially marginalized patients', *BMC Pulmonary Medicine*, bind 24, nr. 1, 113. <https://doi.org/10.1186/s12890-024-02927-9>
  9. Cucciolini G, Corradi F, Marrucci E, **Ovesen SH**. Basic Lung Ultrasound and Clinical Applications in General Medicine. *Med Clin North Am*. 2025 Jan;109(1):11-30. doi: 10.1016/j.mcna.2024.07.006. Epub 2024 Oct 10. PMID: 39567088.
  10. **de Groot, B**, Meijs, NTC, Moscovia, M, Raven, W, Gaakeer, MI, Thijssen, WAMH, Lameijer, H, Shetty, A & Lassen, AT 2024, 'Characteristics and outcomes of emergency department patients across health care systems: an international multicenter cohort study', *International Journal of Emergency Medicine*, bind 17, nr. 1, 123. <https://doi.org/10.1186/s12245-024-00715-0>
  11. Education Implementation Team Task Force of the International Liaison Committee on Resuscitation ILCOR 2024, 'Teaching team competencies within resuscitation training: A systematic review', *Resuscitation Plus*, bind 19, 100687. <https://doi.org/10.1016/j.resplu.2024.100687>
  12. Farquharson B, Cortegiani A, **Lauridsen KG**, Yeung J, Greif R, Nabecker S. Teaching team competences within resuscitation training: a systematic review. *Resuscitation Plus*. 2024 Jun 18;19:100687. doi: 10.1016/j.resplu.2024.100687.
  13. **Galili, SF**, Bech, BH, **Kirkegaard, H**, Ahrensberg, J & Nikolajsen, L 2024, 'Low-dose ketamine as an adjunct to morphine: A randomized controlled trial among patients with and without current opioid use', *Academic Emergency Medicine*, bind 31, nr. 10, s. 961-968. <https://doi.org/10.1111/acem.14983>
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<https://doi.org/10.1111/nicc.13096>
16. Cortegiani A, Ippolito M, Abelairas-Gómez C, Nabecker S, Olaussen A, **Lauridsen KG**, Lin Y, Sawyer T, Yeung J, Lockey AS, Cheng A, Greif R; International Liaison Committee on Resuscitation Education, Implementation and Teams Task Force (EIT) Task Force. In situ simulation for cardiopulmonary resuscitation training: A systematic review. *Resusc Plus*. 2025 Jan 3;21:100863. doi: 10.1016/j.resplu.2024.100863. PMID: 39897060; PMCID: PMC11787034.
17. Greif R, Bray JE, Djärv T, Drennan IR, Liley HG, Ng KC, Cheng A, Douma MJ, Scholefield BR, Smyth M, Weiner G, Abelairas-Gómez C, Acworth J, Anderson N, Atkins DL, Berry DC, Bhanji F, Böttiger BW, Bradley RN, Breckwoldt J, Carlson JN, Cassan P, Chang WT, Charlton NP, Phil Chung S, Considine J, Cortegiani A, Costa-Nobre DT, Couper K, Couto TB, Dainty KN, Dassanayake V, Davis PG, Dawson JA, de Caen AR, Deakin CD, Debaty G, Del Castillo J, Dewan M, Dicker B, Djakow J, Donoghue AJ, Eastwood K, El-Naggar W, Escalante-Kana-shiro R, Fabres J, Farquharson B, Fawke J, de Almeida MF, Fernando SM, Finan E, Finn J, Flores GE, Foglia EE, Folke F, Goolsby CA, Granfeldt A, Guerguerian AM, Guinsburg R, Hansen CM, Hatanaka T, Hirsch KG, Holmberg MJ, Hooper S, Hoover AV, Hsieh MJ, Ikeyama T, Isayama T, Johnson NJ, Josephsen J, Katheria A, Kawakami MD, Kleinman M, Kloeck D, Ko YC, Kudenchuk P, Kule A, Kurosawa H, Laermans J, Lagina A, **Lauridsen KG**, Lavonas EJ, Lee HC, Han Lim S, Lin Y, Lockey AS, Lopez-Herce J, Lukas G, Macneil F, Maconochie IK, Madar J, Martinez-Mejas A, Masterson S, Matsuyama T, Mausling R, McKinlay CJD, Meyran D, Montgomery W, Morley PT, Morrison LJ, Moskowitz AL, Myburgh M, Nabecker S, Nadkarni V, Nakwa F, Nation KJ, Nehme Z, Nicholson T, Nikolaou N, Nishiyama C, Norii T, Nuthall G, Ohshimo S, Olasveengen T, Olaussen A, Ong G, Orkin A, Parr MJ, Perkins GD, Pocock H, Rabi Y, Raffay V, Raitt J, Raymond T, Ristagno G, Rodriguez-Nunez A, Rossano J, Rüdiger M, Sandroni C, Sawyer TL, Schexnayder SM, Schmolzer G, Schnaubelt S, Seidler AL, Semeraro F, Singletary EM, Skrifvars MB, Smith CM, Soar J, Solevåg AL, Soll R, Stassen W, Sugiura T, Thilakasiri K, Tijssen J, Kumar Tiwari L, Topjian A, Trevisanuto D, Vail-lancourt C, Welsford M, Wyckoff MH, Yang C, Yeung J, Zelop CM, Zideman DA, Nolan JP, Berg KM. 2024 International Consensus on Cardiopulmonary Resus-

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19. Göransson KE, Drennan J, **Mainz H**, **Fauerholdt Skov N**, Amritzer M, Berg LM, Andersen KV, **Lisby M**. The scope of emergency nursing viewed through the lens of complex adaptive systems: A discussion paper. *Int J Nurs Stud Adv*. 2024 Nov 26;8:100270. doi: 10.1016/j.ijnrsa.2024.100270. PMID: 39850634;

PMCID: PMC11754812.

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21. Holm, A, Lascarrou, JB, Cariou, A, Reinikainen, M, Laitio, T, **Kirkegaard, H**, Søreide, E, Taccone, FS, Lääperi, M & B. Skrifvars, M 2024, 'Potassium disorders at intensive care unit admission and functional outcomes after cardiac arrest', Resuscitation, bind 205, 110439. <https://doi.org/10.1016/j.resuscitation.2024.110439>
22. Holm, KG, Weis, J, Eg, M, Nørgaard, B, **Sixtus, C**, Haslund-Thomsen, H, Helena Hansson, , Brødsgaard, A & Ragnhild Maastrup 2024, 'Pain assessment and treatment in hospitalized infants, children, and young people', Journal of Child Health Care, bind 28, nr. 4, s. 747-759. <https://doi.org/10.1177/13674935231163399>
23. Johansson, PI, Fenger Eriksen, C, Bovbjerg, PE, Gaarder, C, Pall, M, Henriksen, HH, Pedersen, KH, Vigstedt, M, Lange, T & Næss, PA et al. 2024, 'Prostacyclin in trauma patients with hemorrhagic shock: A randomized clinical trial', Journal of Trauma and Acute Care Surgery, bind 96, nr. 3, s. 476-481. <https://doi.org/10.1097/TA.0000000000004150>
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25. Kleemeier, S & Raaber, N 2024, 'Svømmeinduceret lungeødem', Ugeskrift for Læger, bind 186, nr. 10. <https://doi.org/10.61409/V10230642>
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- nr. 1, 460. <https://doi.org/10.1186/s12871-024-02836-8>
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tion training and clinical experience of team leaders with cardiopulmonary resuscitation quality during in-hospital cardiac arrest', *Resuscitation*, bind 199, 110217. <https://doi.org/10.1016/j.resuscitation.2024.110217>

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