

ANNUAL REPORT

Research Center for
Emergency Medicine

2022



Data sheet

Annual Report 2022 – 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.

May 2022

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Preface

Dear Colleague,

It is with great pleasure that I present the annual report 2022 for the Research Center for Emergency Medicine (RECEM). This report encapsulates the dedicated efforts of researchers who strives to improve emergency medicine and enhance patient outcomes.

The report provides insight into the spirit of and the activities in the research center in 2022. In the first section, we give short background information about who we are, what we strive for, how we work, and how we see Emergency Medicine. In the following section, we list our academic program and activities.

It is important to acknowledge that research in this field builds on collaboration and interdisciplinary exchange. The achievements presented in this report is the culmination of collective efforts from researchers with different clinical backgrounds.

I want to thank our friends, colleagues, and partners - regional, national as well as international - for good collaboration throughout the year. I also express my sincere appreciation to the patients and their families who have participated in our research studies, enabling us to achieve new insights and advance the field of emergency medicine.

We are always looking for new researchers and collaborators, so please, do not hesitate to contact us. You can find more information about us on Facebook, Twitter, and LinkedIn.

We hope you will find the report interesting and inspiring.

Best regards

Marianne Lisby

Marianne Lisby
Associate Professor, PhD., MHSc, RN
Director of the Research Center for Emergency Medicine



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1. About us - Research Center for Emergency Medicine

We are the center for research in emergency medicine at Aarhus University and in Central Denmark Region - established to initiate and stimulate research in this newly implemented medical specialty in Denmark. In-house, at Aarhus University Hospital, the center is affiliated with the emergency department and the research environment is occupied by all academic positions, from bachelor students and Ph.D. students to clinicians and established researchers and professors. By embracing various healthcare professions and research methods, we strive to reflect the interdisciplinary nature of emergency medicine in our research activities. Many of our research activities are structured in networks that also welcome researchers based in other specialties or locations. An overview of our current networks can be viewed in figure 1. We provide an excellent research environment and aim to establish new collaborators and projects continuously within the research field of emergency medicine.

2. Mission, vision, and strategy

Mission Statement

We perform interdisciplinary research with international impact in favor of patients with acute illness or injuries.

Mission

Research Center for Emergency Medicine generates and conveys research within all aspects of emergency medicine in favor of patients with acute illness and injuries and the medical specialty of emergency medicine. Our research is inter- and multidisciplinary and includes all academic positions from students to professors from different faculties. The center is the driving force and leading knowledge base for emergency medicine research in the Central Denmark Region, and a natural gathering point for both established and early-career researchers within the field. Our research environment is based on values of tolerance, diligence, diversity, cooperation, and talent development.

Vision

RECEM is nationally leading and internationally acclaimed within the research field of emergency medicine. Our vision includes that RECEM:

- is a gathering point and a driving force for emergency medicine research in the Central Denmark Region.
- demonstrates a high quality of research and our articles are published in high-impact scientific journals.
- is well-known among medical professionals, academics, and the general public.
- has a strong international, interdisciplinary, and multidisciplinary profile.
- has an established collaborative network and attracts both talented early career and established researchers nationally as well as internationally.
- develops and provides pre- and postgraduate education in the field of emergency medicine at an international level.
- develops and initiates research projects that are awarded grants continuously from both national, international, private, and public funding sources.
- has a research culture firmly anchored in the emergency department where all patients are included in the research or quality-improvement projects.

Strategy 2023

RECEM's strategy for 2023 aims at advancing research efforts, developing a strong research infrastructure, and expanding education in an inspiring research environment and attracting international researchers. One of the exciting challenges in 2023 will be to align our research strategy with the newly developed research strategy for Aarhus University Hospital & Aarhus University, Health. In line with 2021 our current strategy entails the following:

Academic staff

The academic staff will be strengthened at all academic levels within the profession of both medicine and health care.

Management structure

An associate professor in Emergency Medicine, Marianne Lisby, is the research leader and has the overall responsibility. The management is supported by the affiliated professor, Bo Løfgren, and associate professors in the center. Moreover, the research center is supported by professor emeritus, Hans Kirkegaard, and plan to employ an international professor to strengthen the academic level within the medical specialty. The center is built on a flat organizational structure, with a democratic, equal, and open culture.

Organization of research

The research organization of RECEM is based on the establishment of research networks, read more about how we are organized in the paragraph "Research Philosophy" below.

Focus areas

As illustrated in Figure 1 the networks in RECEM is related to the following areas:

- Trauma
- Resuscitation
- Patient safety
- Organizational design and conditions (Design-EM)
- Involvement of patients and relatives
- Pain management
- Sepsis
- Point-of-Care ultrasound

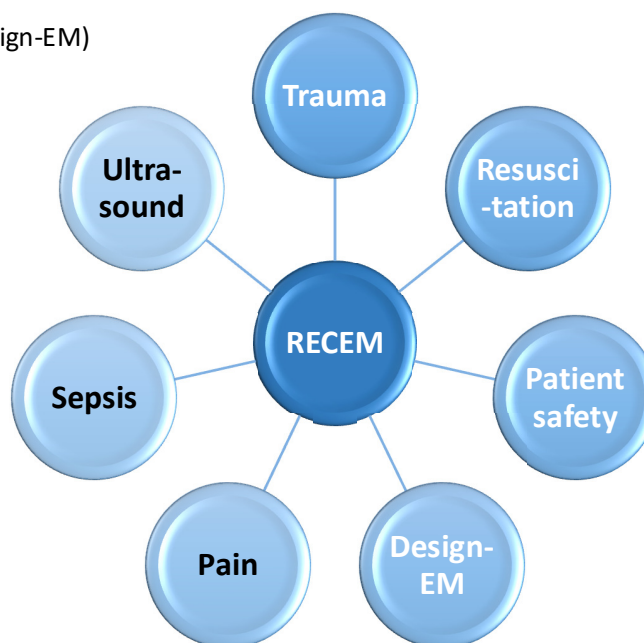


Figure 1. Networks in RECEM

The research environment

RECEM promotes an inspiring research environment and brings talent development, staff retention, and an international vision into focus. RECEM is a multidisciplinary and interdisciplinary research center where research and the quality of research are prioritized over the academic level, line of profession, and level of education.

Visibility and presentation

The presentation of the results of each research project must be clear and distinct. We aim to publish our results in high-impact international scientific journals. Furthermore, we strive to disseminate our research to a wide audience, including professional stakeholders and the broad public.

Teaching

We strive to establish teaching in emergency medicine to be at the same level as other medical specialties. Additionally, we give priority to teaching in all aspects of emergency medicine regardless of profession, level of education, and department.

Research qualifications

RECEM strives to develop expertise in interventional-, qualitative-, epidemiological, and simulation research.

Cooperation

RECEM collaborates at a regional, national, and international level, and collaborates across a wide range of (academic) disciplines at the hospital and university.

Fundraising

We continuously seek to obtain financial resources for ongoing and future research projects.

3. Research Philosophy

Our research philosophy is based on the establishment of research networks (Figure 1). A research network is a group of researchers with similar interests. The head of research at RECEM presides over the respective networks; however, key researchers drive the networks forward. Researchers from other research environments are also linked to and welcome in the networks, which is why we represent a unique interdisciplinary field within individual research fields.

4. The field of emergency medicine

In Denmark, emergency departments have existed for several years now, and in 2017 emergency medicine was finally approved as a medical specialty. The field of emergency medicine is concerned with the care of illnesses or injuries requiring acute medical attention. It embraces all aspects of the acute patient's treatment from the first contact to the emergency service to hospitalization and rehabilitation after discharge. Emergency medicine cuts across existing professional and organizational boundaries and has a wide interface of different clinical and epidemiological fields.

The care and treatment delivered in emergency medicine has implications for around 350.000 hospital contacts in The Central Denmark Region, annually. Developing and implementing evidence based on high quality research is urgently needed to save lives, reduce societal costs and increase patient and relative's satisfaction.

5. The academic program, publications, and foundation grants

Overview

Professors	2
Associated professors	4
Postdoc	2
PhD students	7
PhD dissertations	2
Research year students	2
Master thesis students	9
Research training students	2
Doctors (researchers)	3
Project nurses	4
Guest Researcher (Austria)	1
Student assistants	2
Per review publications	69
Grants	DKK 15,718,403
Awards	9

6. Supervision

Hans Kirkegaard, MD, professor

[PhD project, main-supervisor](#)

Marie Kristine Jessen

Fluid administration in adult emergency department patients with sepsis.

Martin Gude

Improvement and evaluation of prehospital stroke management.

[PhD project, co-supervisor](#)

Sophie Seidenfaden

Traumatic brain injury in the prehospital setting.

Main supervisor: Morten Bøtker

Mikael Fink Vallentin

Calcium for Out-of-Hospital Cardiac Arrest.

Main supervisor: Lars Wiuff Andersen

Stine Fjendbo Galili

Management of acute pain in patients using opioids.

Main supervisor: Lone Nikolajsen

Stig Holm Ovesen

Focused Lung Ultrasound and Pneumonia in the Emergency Department.

Main supervisor: Jesper Bo Weile

Sandra Langsted

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

Main supervisor: Bo Løfgren

[Master thesis, main supervisor](#)

Cathrine Præst Mose

Altered mental status in Danish Emergency department patients: Etiologies and outcomes.

Maria Krusenstjerna-Hafstrøm

Acute pain treatment of children in the Danish Emergency Departments: A nationwide cross-sectional study.

Marie Schmidt-Rasmussen Nielsen

Performance of Danish Emergency Process Triage in patients with abdominal pain.

[Research training course, main supervisor](#)

Cathrine Præst Mose

Altered mental status in Danish Emergency department patients: Etiologies and outcomes.

Bo Løfgren, MD, professor

[PhD students, main supervisor](#)

Mathilde Stærk

Optimising the In-Hospital Use of Automated External Defibrillators.

Lene Holst Andersen

Improving communication skills for residents performing Geriatric Ward Rounds – a mixed method study.

Sandra Langsted

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

PhD Students, co-supervisor

Hannah Brogård Andersen

Circulatory support in neonatal resuscitation.

Main supervisor: Tine Brink Henriksen

Frederik Boe Hansen

Improving Cerebral Perfusion and Neuronal Outcome in the Post-Cardiac Arrest Period.

Main supervisor: Asger Granfeldt

Maria Festila

Exploring Entanglements of Infrastructures and Healthcare: The Context of Critical Care Medicine.

Main supervisor: Sune Dueholm Müller (BSS)

Lauge Vammen

Clinically relevant cardiac arrest survival model and intervention with thiamine.

Main supervisor: Asger Granfeldt

Stig Holm Ovesen

Focused Lung Ultrasound and Pneumonia in the Emergency Department.

Main supervisor: Jesper Bo Weile

Research year students, main supervisor

Sofie Marcussen

Patient experiences following DC cardioversion.

Master thesis, main-supervisor

Sofie Marcussen

Patient experiences following DC cardioversion.

Bea Brix

Organization and training of pediatric in-hospital cardiac arrest in Denmark.

Master's Degree Program in Health Science, Aarhus University, main supervisor

Carsten Rosenlund Meilandt

The association between defibrillation using LIFEPAK or ZOLL defibrillators and survival after Out of Hospital Cardiac Arrest: a cohort study.

Mette Qvortrup

The association between defibrillation using LIFEPAK or ZOLL defibrillators and survival after Out of Hospital Cardiac Arrest: a cohort study.

Research training course, main supervisor

Lukas Simonsen Fitzgerald

Project: Department of Medicine (Cardiology), Randers Regional Hospital.

Jesper Bo Weile, MD, associate professor

PhD students, main supervisor

Stig Holm Ovesen

Focused Lung Ultrasound and Pneumonia in the Emergency Department.

PhD students, co-supervisor

Sandra Langsted

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

Main supervisor: Bo Løfgren

Master thesis, main supervisor

Sofie Hjort Bendixen

Chest x-ray positioning in suspected infections in the emergency department.

Kasper Glerup Lauridsen, MD, associate professor

PhD students, co-supervisor

Hritul Karim

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

Sandra Langsted

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

Main supervisor: Bo Løfgren

Master thesis, co-supervisor

Sofie Marcussen

Patient experiences following DC cardioversion.

Bea Brix

Organization and training of pediatric in-hospital cardiac arrest in Denmark.

Research year students, co-supervisor

Sofie Paarup Thomsen

The Use of Telemetry following Acute Myocardial Infarction.

Lars Wiuff Andersen, MD, associate professor

PhD students, main supervisor

Nikola Stankovic

In-Hospital Cardiac Arrest in Denmark: The Role of Social Determinants of Health.

Mikael Fink Vallentin (Prehospital Emergency Medical Services, the Central Denmark Region)
Calcium for Out-of-Hospital Cardiac Arrest – A Randomized, Double-Blind, Placebo-Controlled Trial.

PhD students, co-supervisor

Marie Kristine Jessen

Fluid administration in adult emergency department patients with sepsis.

Main supervisor: Hans Kirkegaard

Lauge Vammen

Clinically relevant cardiac arrest survival model and intervention with thiamine.

Main supervisor: Asger Granfeldt

Marianne Lisby, associate professor

PhD project, main supervisor

Trine Worm Thøgersen

Potentially preventable hospital admissions and multimorbidity in municipal health care

Master thesis, main supervisor

Nanna Fauerholdt Skov

The association between 30-day readmission and lengths of stay in emergency departments among patients with Alcohol Use Disorder and potential risk factors for readmissions.

Kirstine Boysen

The association between covid-19 and mortality among non-covid-19 emergency patients.

Katarina Weibel Hansen

Impact of the COVID-19 pandemic on hospitalisation and mortality of patients with pulmonary embolism in Danish emergency departments A multicenter retrospective cohort study.

Rita-Kristin Riise

Incidences of self-harm, intoxications and suicide attempts presenting to the Emergency Department during the first year of the COVID-19 pandemic compared to the year prior.

Jaleh Aghaie

Physicians awareness of fluid volume administered with intravenous antibiotics.

Katrine Harkes Gull

Time from pain assessment to opioid treatment in the Danish Emergency Departments.

Research training course, main supervisor

Rita-Kristin Riise

Incidences of self-harm, intoxications and suicide attempts presenting to the Emergency Department during the first year of the COVID-19 pandemic compared to the year prior, Protocol.

Philip Uhd Wendt Nielsen

Traumatic Carotid Artery Dissection in Denmark: A Retrospective Cohort Study.

Claus Sixtus Jensen, Postdoc (2022)

Master thesis, co-supervisor

Lisa Marie Pedersen

*Sygeplejerskers oplevelser af barrierer og fremmede faktorer i arbejdet med TOKS til børn
Et kvalitativt studie.*

Maria Krusenstjerna-Hafstrøm

Acute pain treatment of children in the Danish emergency departments.

Mathias Johan Holmberg, MD, PhD

PhD project, co-supervisor

Nikola Stankovic

In-Hospital Cardiac Arrest in Denmark: The Role of Social Determinants of Health.

Gitte Boier Tygesen, RN, MHSc, PhD

Master thesis, co-supervisor

Nanna Fauerholdt Skov

The association between 30-day readmission and lengths of stay in emergency departments among patients with Alcohol Use Disorder and potential risk factors for readmissions.

Marie Kristine Jessen, MD, PhD

Master thesis, co-supervisor

Camilla Ulsøe

Changes in intravenous fluid administration in emergency department patients with sepsis from 2020 to 2021.

Jaleh Aghaie

Physician awareness about fluid volume administered with intravenous antibiotics – a structured interview-based study.

Sofie Hjort Bendixen

Chest x-rays in patients with suspected infection in the emergency department: A prospective, observational sub-study.

Project student, co-supervisor

Alberthe Hjort Petersen

Change in mean arterial pressure in septic patients allocated to restrictive fluids or standard care.

Stine Fjendbo Galili, MD, PhD-student

Master thesis, co-supervisor

Maria Krusenstjerna-Hafstrøm

Acute pain treatment of children in the Danish emergency departments.

Katrine Harkes Gull

Time from pain assessment to opioid treatment in the Danish Emergency Departments.

Stig Holm Ovesen, MD, PhD-student

Master thesis, co-supervisor

Sofie Hjort Bendixen

Chest x-ray positioning in suspected infection in the emergency department.

Marie Schmidt-Rasmussen Nielsen

Performance of Danish Emergency Process Triage in patients with abdominal pain.

Emma Skovgaard Pedersen, Katja Sloth Andersen, Line Bilgrav Nisgaard, Mette Louise Roed
Medicinsk teknologivurdering af håndholdte ultralydsscannere i akutte patientforløb.

Residency research programme, co-supervisor

Kristian Bøgh Jessen

Evaluation of the emergency departments fast-track at Horsens Regional Hospital.

Nikolaj Raaber, MD

Research year students, co-supervisor

Natascha Bohnsted-Pedersen

Implementation of video transmission in the Emergency Medical Coordination Centre - A participatory study identifying facilitating and inhibiting factors in the implementation of video in 1-1-2 calls.

Milena Meisner Nielsen

The use of video streaming in emergency medical dispatch centers – identification of facilitating and inhibiting factors & the effect of video streaming on stroke recognition.

7. Current national research projects

COPD and socially marginalized patients

Prevalence and treatment of reduced lung function among patients within the social nurses target group
Principal investigator Charlotte Suppli Ulrik, Hvidovre Hospital.
Investigator Marianne Lisby (RECEM)

Individual Paediatric Early Warning System (I-PEWS)

Does systematic incorporation of nurses clinical judgment in a Paediatric Early Warning System improve detection of clinical deterioration in hospitalised paediatric patients.
Principal investigator Claus Sixtus Jensen (RECEM)

REFACED Sepsis

Restrictive Fluid Administration vs. Standard of Care in Emergency
Department Sepsis Patients (REFACED Sepsis) - a Multicenter, Randomized Clinical Feasibility Trial.
Principal investigator Marie Kristine Jessen (RECEM)

VAM-IHCA

Vasopressin and Methylprednisolone for In-Hospital Cardiac Arrest – A Randomized, Double-Blind, Placebo-Controlled Trial.
Principal investigator Lars Wiuff Andersen (RECEM)

8. Current international research projects

Nurses bedside observation of hospitalised children and young people: Which signs and symptoms trigger nurses' worry or concern about a paediatric patient's condition

Principal investigator Claus Sixtus Jensen (RECEM)

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

Principal Investigator Marianne Lisby (RECEM)

Investigators Gitte Boier Tygesen and Hans Kirkegaard (RECEM)

MISSCARE in the Nordic countries

Comparison of Nordic surveys of missed nursing care (Sweden, Norway, Iceland & Denmark)

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

TAME

Targeted Therapeutic Mild Hypercapnia After Resuscitated Cardiac Arrest: A Phase III Multi-Centre Randomised Controlled Trial.

Principal investigator Glenn Eastwod Monash University, Melbourne

Investigators Hans Kirkegaard and Anders Grejs (RECEM)

TTH48 Targeted Temperature Management for 24 vs 48 hours

The main study is published, sub-study's in preparation

Principal investigator Hans Kirkegaard (RECEM)

TTM2 – Targeted Temperature Management 2

Principal investigator Niklas Nielsen, Lund University

Investigators Hans Kirkegaard and Anders Grejs (RECEM)

The SCORE Trial

Standardized Communication during In-hospital Resuscitation: A Multicenter Randomized Simulation Trial.

Principal investigator Kasper Glerup Lauridsen (RECEM)

9. Peer review publications

1. Wyckoff MH, Greif R, Morley PT, Ng KC, Olasveengen TM, Singletary EM, Soar J, Cheng A, Drennan IR, Liley HG, Scholefield BR, Smyth MA, Welsford M, Zideman DA, Acworth J, Aickin R, Andersen LW, Atkins D, Berry DC, Bhanji F, Bierens J, Borra V, Böttiger BW, Bradley RN, Bray JE, Breckwoldt J, Callaway CW, Carlson JN, Cassan P, Castrén M, Chang WT, Charlton NP, Chung SP, Considine J, Costa-Nobre DT, Couper K, Couto TB, Dainty KN, Davis PG, de Almeida MF, de Caen AR, Deakin CD, Djärv T, Donnino MW, Douma MJ, Duff JP, Dunne CL, Eastwood K, El-Naggar W, Fabres JG, Fawke J, Finn J, Foglia EE, Folke F, Gilfoyle E, Goolsby CA, Granfeldt A, Guerguerian AM, Guinsburg R, Hirsch KG, Holmberg MJ, Hosono S, Hsieh MJ, Hsu CH, Ikeyama T, Isayama T, Johnson NJ, Kapadia VS, Kawakami MD, Kim HS, Kleinman M, Kloeck DA, Kudenchuk PJ, Lagina AT, **Lauridsen KG**, Lavonas EJ, Lee HC, Lin YJ, Lockey AS, Maconochie IK, Madar RJ, Malta Hansen C, Masterson S, Matsuyama T, McKinlay CJD, Meyran D, Morgan P, Morrison LJ, Nadkarni V, Nakwa FL, Nation KJ, Nehme Z, Nemeth M, Neumar RW, Nicholson T, Nikolaou N, Nishiyama C, Norii T, Nuthall GA, O'Neill BJ, Ong YG, Orkin AM, Paiva EF, Parr MJ, Patocka C, Pellegrino JL, Perkins GD, Perlman JM, Rabi Y, Reis AG, Reynolds JC, Ristagno G, Rodriguez-Nunez A, Roehr CC, Rüdiger M, Sakamoto T, Sandroni C, Sawyer TL, Schexnayder SM, Schmölzer GM, Schnaubelt S, Semeraro F, Skrifvars MB, Smith CM, Sugiura T, Tijssen JA, Trevisanuto D, Van de Voorde P, Wang TL, Weiner GM, Wyllie JP, Yang CW, Yeung J, Nolan JP, Berg KM. 2022 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations: Summary From the Basic Life Support; Advanced Life Support; Pediatric Life Support; Neonatal Life Support; Education, Implementation, and Teams; and First Aid Task Forces. *Resuscitation*. 2022 Nov 3. doi: <https://doi.org/10.1016/j.resuscitation.2022.10.005>
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3. Wyckoff MH, Greif R, Morley PT, Ng KC, Olasveengen TM, Singletary EM, Soar J, Cheng A, Drennan IR, Liley HG, Scholefield BR, Smyth MA, Welsford M, Zideman DA, Acworth J, Aickin R, Andersen LW, Atkins D, Berry DC, Bhanji F, Bierens J, Borra V, Böttiger BW, Bradley RN, Bray JE, Breckwoldt J, Callaway CW, Carlson JN, Cassan P, Castrén M, Chang WT, Charlton NP, Chung SP, Considine J, Costa-Nobre DT, Couper K, Couto TB, Dainty KN, Davis PG, de Almeida MF, de Caen AR, Deakin CD, Djärv T, Donnino MW, Douma MJ, Duff JP, Dunne CL, Eastwood K, El-Naggar W, Fabres JG, Fawke J, Finn J, Foglia EE, Folke F, Gilfoyle E, Goolsby CA, Granfeldt A, Guerguerian AM, Guinsburg R, Hirsch KG, Holmberg MJ, Hosono S, Hsieh MJ, Hsu CH, Ikeyama T, Isayama T, Johnson NJ, Kapadia VS, Kawakami MD, Kim HS, Kleinman M, Kloeck DA, Kudenchuk PJ, Lagina AT, **Lauridsen KG**, Lavonas EJ, Lee HC, Lin YJ, Lockey AS, Maconochie IK, Madar RJ, Malta Hansen C, Masterson S, Matsuyama T, McKinlay CJD, Meyran D, Morgan P, Morrison LJ, Nadkarni V, Nakwa FL, Nation KJ, Nehme Z, Nemeth M, Neumar RW, Nicholson T, Nikolaou N, Nishiyama C, Norii T, Nuthall GA, O'Neill BJ, Ong YG, Orkin AM, Paiva EF, Parr MJ, Patocka C, Pellegrino JL, Perkins GD, Perlman JM, Rabi Y, Reis AG, Reynolds JC, Ristagno G, Rodriguez-Nunez A, Roehr CC, Rüdiger M, Sakamoto T, Sandroni C, Sawyer TL, Schexnayder SM, Schmölzer GM, Schnaubelt S, Semeraro F, Skrifvars MB, Smith CM, Sugiura T, Tijssen JA, Trevisanuto D, Van de Voorde P, Wang TL, Weiner GM, Wyllie JP, Yang CW, Yeung J, Nolan JP, Berg KM. 2022 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations: Summary From the Basic Life Support; Advanced Life Support; Pediatric Life Support; Neonatal Life Support; Education, Implementation, and Teams; and First Aid Task Forces. *Circulation*. 2022 Nov 3. doi: 10.1161/CIR.0000000000001095. Online ahead of print.
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10. Invited national lectures and presentations

Marie Kristine Jessen

Effect of after-hour admission on fluid administration in emergency department patients with suspected infection – a sub-study of a prospective, observational multicentre study, DEMC9.

October 2022

(Awarded best presentation of the year)

Stig Holm Ovesen

Akutmedicinsk ultralyd, Dansk Almenmedicinsk Ultralydsselskabs Årsmøde 2022.

October 2022

Gitte Boier Tygesen

The impact of COVID-19 on patient flow, DESIGN-EM conference 2022.

March 2022

11. Invited international lectures and presentations

Hans Kirkegaard

Impact of COVID-19 on hospital and ED organization and acute patient flow in Central Denmark Region, EUSEM, Berlin.

November 18 2022

Post Cardiac arrest care - Disturbances of electrolytes and acid/base EUSEM, Berlin

November 18 2022 **Johannes Ulrich Wittig**

Expectations of young representation in large medical and scientific associations, ConECT meeting during the 10th Emergency Medicine Congress of the Association of Emergency Medicine, Graz, Austria, April 21 2022

Intra-arrest ventilation, 2nd International Congress on Emergency Medicine, Antalya, Turkey

November 12 2022

Ventilation during CPR, 13th Annual Conference of the Austrian Association of Emergency Medicine, Vienna, Austria.

November 14 2022

12. International cooperation

Hans Kirkegaard

- Eldar Søreide, Professor, MD, PhD, FERC, Department of Aesthesiology and Intensive Care and Alf
- Inge Larsen, Professor, MD, PhD, FESC; Department of Cardiology, Stavanger University Hospital, Stavanger, Norway and Department of Clinical Medicine, University of Bergen, Bergen, Norway
- Fabio Silvio Taccone, Professor, MD, PhD; Department of Intensive Care, Erasme Hospital, Université Libre de Bruxelles (ULB), Brussels, Belgium
- Valdo Toome, MD; Department of Intensive Cardiac Care, North Estonia Medical Centre, Tallinn, Estonia
- Christian Storm, MD, PhD; Department of Internal Medicine, Nephrology and Intensive Care, Charité-Universitätsmedizin Berlin, Berlin, Germany
- Timo Laitio, MD, PhD; Department of Anesthesiology and Intensive Care, Turku University Hospital and University of Turku, Finland
- Markus B Skrifvars, Associated professor, MD, PhD, EDIC, FCICM; Division of Intensive Care, Department of Anesthesiology and Intensive Care Medicine, Helsinki University Hospital and University of Helsinki, Finland, and Australian and New Zealand Intensive Care Research Centre, School of Public Health and Preventive Medicine, Monash University Melbourne, Australia
- Nathan Shapiro Ass. Professor, MD Emergency Department, Beth Israel Deaconess Medical Center, Longwood, Boston, USA
- Michael Donnino, Ass. Professor MD, Emergency Department, Beth Israel Deaconess Medical Center, Longwood, Boston, USA
- Bo Madsen, Associated professor, MD, Emergency Department, Mayo Clinic, Rochester, Minnesota, USA
- Dr. Ben Bloom Consultant Emergency Medicine, Barts Health NHS Trust Royal London Hospital, United Kingdom

- Niklas Nielsen, professor, Anesthesiology and Intensive Care, Department of Clinical Sciences, Helsingborg Hospital Lund, Lund University, Lund, Sweden
- Glenn Eastwood, Dr. Research Manager Department of Intensive Care, Austin Hospital, Victoria, Australia

Marianne Lisby

- 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.
- Associate professor, Katarina Göranson, University of Dalarna, Sweden.
- Professor Beate André, Norwegian University of Science and Technology, Norway.
- Professor Kjersti Grønning, Norwegian University of Science and Technology, Norway.
- Professor Jonathan Drennan, University College, Cork, Ireland.
- Professor, Bernie Pauly, University of Victoria, British Columbia, Canada.
- Associate professor, Patricia Dykes, Harvard Medical School & Brigham and Womens Hospital, Boston, MA, USA.
- Professor David W. Bates, Harvard Medical School & Brigham and Womens Hospital, Boston, MA, USA.
- Assistant professor Ronen Rozenblum, Harvard Medical School & Brigham and Womens Hospital, Boston, MA, USA.
- Associate professor, Daniele Marcia, LUISS Business School, Rome, Italy.
- Associate professor, Fausto Di Vincenzo, University of Pescara, Abruzzo, Italy.

Kasper Glerup Lauridsen

- Adam Cheng, Professor, University of Calgary; Therese Djärv, Professor, Karolinska Institutet, Sweden.
- Vinay Nadkarni, Professor, University of Pennsylvania; Robert Greif, Professor, Inselshospital Bern.

Claus Sixtus Jensen

- Professor Imelda Coyne, University of Dublin, Trinity College.
- Professor in paediatric nursing Karin Enskär, Uppsala University
- Postdoc Heidi Holmen, Oslo Metropolitan University
- European society for paediatric intensive care, paediatric critical care & neonatal intensive care (ESPNIC) and Paediatric Nursing Associations of Europe (PNAE)
- Consultant MD, PhD, Anne Lee, Lovisenberg diaconal college
- Assistant Professor Marco Clari, University of Turin

Gitte Boier Tygesen

- Associate professor, Daniele Marcia, LUISS Business School, Rome, Italy.
- Associate professor, Fausto Di Vincenzo, University of Pescara, Abruzzo, Italy.

Mathias Johan Holmberg

- Professor Michael W. Donnino, Beth Israel Deaconess Medical Center, Boston, MA, USA.

Nikola Stankovic

- Beth Israel Deaconess Medical Center, Harvard Medical School in Boston, MA, USA. Research stay during PhD.

Stig Holm Ovesen

- Professor Irene Ma, Division of General Internal Medicine, Cumming School of Medicine, University of Calgary.

Trine Worm Thøgersen

- Patricia Dykes, PhD, MA, RN, Associate Professor of Medicine, Brigham and Women's Hospital
- Forskerskolen Muni-Health-Care, Oslo University (UiO).

Johannes Ulrich Wittig

- Simon Orlob, MD, Medical University of Graz, Austria.

13. Review committee assessments

Hans Kirkegaard

- Assessment and opponent of the doctoral dissertation for Dr. Med. Benedict Kjærgaard. Behandling af hypotermi, lungeemboli og andre livstruende tilstande med ekstra korporal membran oxygenering. June 17, 2022, Aalborg University.
- Assessment and opponent of PhD dissertation of PhD Morten Hedetoft. Necrotizing Soft-Tissue Infection: Aspects of Hyperbaric Oxygen Treatment. Copenhagen, March 4, 2022, University of Copenhagen.

Marianne Lisby

- Assessment and opponent of PhD dissertation of Mette Elkjær. Readmission, mortality and quality of life among older adults who are acute admitted and received homecare. Southern Denmark University.
- Chairman of Assessment Committee, Associate professor position, Department of Clinical Medicine, Aarhus University, Health.
- Assessment Committee, research applications, Cross Tracks Cohort, Central Denmark Region.
- Assessment Committee, grant application, "Bedre vilkår for Forskning", Aarhus University Hospital.

Claus Sixtus Jensen

- Review Editor - Frontiers in Emergency Medicine

Gitte Boier Tygesen

- Editorial board: European Journal of Emergency Medicine, Danish Journal of Emergency Medicine/Dansk Tidsskrift for Akutmedicin.

Marie Kristine Jessen

- Editorial board: European Journal of Emergency Medicine, Danish Journal of Emergency Medicine/Dansk Tidsskrift for Akutmedicin.

Mathias Johan Holmberg

- Task Force Member at ILCOR and Science and Education Committee (SEC) Member at ERC.

Hanne Mainz

- Member of the National Advisory Forum for Clinical Quality, The Danish Clinical Quality Program - National Clinical Registries (RKKP).
- Member of the steering group in the EU financed project in Central Denmark Region and Region hospital Gødstrup, evidence based Nurse Staffing in Danish acute Hospitals.

Johannes Ulrich Wittig

- Member of the reviewer panel for the Society for Simulation in Healthcare Guidelines.

14. Grants and funding

Awarded researchers listed by rewarding funds.

Novo Nordisk Foundation - Clinical Emerging Investigator, Clinical Trials to Improve Outcomes for Patients with Cardiac Arrest

Lars Wiuff Andersen

DKK 9,996,587

Independent Research Fund Denmark, Intravenous vs. Intraosseous Vascular Access During Out-of-Hospital Cardiac Arrest

Lars Wiuff Andersen

DKK 2,879,892

The Danish Heart Foundation, Intravenous vs. Intraosseous Vascular Access During Out-of-Hospital Cardiac Arrest

Lars Wiuff Andersen

DKK 1,465,000

Central Denmark Region

Bo Løfgren

DKK 696,924

Aarhus University Research Foundation (AUFF)

Marianne Lisby

DKK 500,000

Den sygeplejefaglige forskningsfond, Nurse Staffing and 30-day Readmission

Hanne Mainz

DKK 150,000

Den sygeplejefaglige forskningsfond, Nursing indicators in clinical databases

Hanne Mainz

DKK 30,000

15. Awards

1st place poster presentation at the 2nd International Congress on Emergency Medicine, Antalya, Turkey

Johannes Ulrich Wittig

1st place poster presentation at the 13th Annual Conference of the Austrian Association of Emergency Medicine, Vienna, Austria

Johannes Ulrich Wittig

2nd place poster presentation at the 10th Emergency Medicine Congress of the Association of Emergency Medicine, Graz, Austria

Johannes Ulrich Wittig

3th place in ACTA lecture competition, DASAIM.

Stine Fjendbo Galili

Anders Jahre's Award for Young Medical Researchers (DKK 140,000) June 2022

Lars Wiuff Andersen

Best oral presentation, DEMC9

Oral presentation: Effect of after-hour admission on fluid administration in emergency department patients with suspected infection – a sub-study of a prospective, observational multicentre study.

Marie Kristine Jessen

Fellowship of the European Resuscitation Council

Kasper Glerup Lauridsen

Winner of the Best Clinical Trials of the Year 2022 (Denmark) in the category of Patient Focus

Mia Blaabjerg

Marianne Lisby (main supervisor)

Yngre Danske Akutmedicineres Uddannelsespris, 2022

Jesper Bo Weile