

ACUTE CAG

Newsletter July 2021

Executed meetings in 2021

Meeting in the ACUTE CAG Steering Group, 11 May.

Annual Meeting 2021, 7 June.

Strategy meeting in the ACUTE CAG Steering Group, 8 June.



The Annual Meeting 2021

The Steering Group wishes to thank Maria Kristiansen and Kim Dalhoff for their great work planning the meeting!

The Annual Meeting was held as a Teams meeting due to the COVID restrictions and 47 participated.

The keynote speaker, Professor of Internal Medicine, Evangelos J. Giamarellos-Bourboulis gave the talk *SuPAR to guide immunotherapy for COVID-19: the SAVE strategy*, and senior researcher Jan Nehlin made the presentation *Towards the estimation of resolution capacity in patients with acute and chronic diseases: the influence of biological age in recovery and resilience*.

Six of ACUTE CAG's young researchers participated in a pitch competition:

- Anissa Aharaz: *Medication deprescribing and follow-up: a survey among subacute multimorbid patients in a multidisciplinary outpatient clinic*
- Izzet Altintas: *Prognostic biomarkers, clinical and quantitative measurements, immunologic staining, physiotherapy intervention, and ultrasound imaging among ACUTE admitted first time lower extremity Deep Venous Thrombosis-patients*
- Juliette Tavenier: *Advanced biological aging in acutely hospitalized older patients compared to age-matched controls*
- Andrea Nedergaard Jensen: *Associations between degree-of-worry, self-rated health, and acute hospitalization after contacting a medical helpline: a Danish prospective cohort study*
- Amalie Lykkemark Møller: *Could improved pre-hospital management of myocardial infarction patients with atypical symptoms reduce mortality? – A causal mediation analysis*
- Astrid Eliassen: *Pharmacogenetics of antiemetics for chemotherapy-induced nausea and vomiting: a systematic review and meta-analysis*

Juliette Tavenier and Andrea Nedergaard Jensen won the two prizes for best pitch and were awarded 5.000 DKK each.



Juliette



Andrea

Future meetings

18 November 2021, the Steering Group will meet followed by a networking meeting for the ACUTE CAG partners and invited senior researchers and postdocs.

The networking meeting will include several workshops featuring topics of interest to ACUTE CAG, e.g. Knowledge-based approach to triage, Biological aging as a biomarker, and Research development in the first generation of emergency physicians.

Suggestions for additional topics can be sent to: henriette.moeller.02@regionh.dk

Financing and funding



1 June, Ove and Lene met with the GCHSP Executive Board to evaluate ACUTE CAG. The Director of GCHSP, Per Jørgensen and the Executive Board were satisfied with the results from the ACUTE CAG collaboration and granted the third year of ACUTE CAG.

To finance future activities, the financing strategy will be further developed to encompass e.g. promotion of visibility and return-on-value from the scientific collaboration with the partnering organizations, attracting larger consortiums by easier access to academia and committed clinics, and co-financing and the use of in-kind resources.

New article about ACUTE CAG (In Danish)

[GCHSP has posted an article about ACUTE CAG on their webpage, *ACUTE CAG bidrager til bedre udnyttelse af varme hænder og senge i en pandemitid.*](#)



Current activities

The ACUTE CAG is now into its second year and examples of current collaborative activities are:

- The I-SENSE project, *Implementing Social Distancing Policy Measures in the Battle against the Coronavirus* with the ACUTE CAG partners Hvidovre Hospital, SDU, Linköping University, and Karsten Vrangbæk's group from CEHA.
- Niels Morling and Jan Nehlin are exploring the possibilities of collaborating with the Mayo Clinic.
- Bjarne Ersbøll and others are testing the digitalization of nutritional screenings based on the modulation of eating patterns.
- Kasper Iversen and others are working on research projects focusing on COVID-19.
- In the fall, Region Zealand and Slagelse Sygehus will be more involved in the ACUTE CAG research on e.g. the suPAR biomarker.
- Mogens Holst and senior researcher Jeanette Kirk have developed the Graduate School Ph.D. course *Implementation of interventions and implementation research in health and medical sciences* (Course no.: 3921-21-00-00). Please register before 8 October 2021. [More info can be found on the University of Copenhagen's website](#)
- Senior researchers Claus Desler and Jan Nehlin are planning the Ph.D. course *Aging from a cross-disciplinary perspective*.

Three Ph.D. collaborations are now co-financed by the ACUTE CAG grant

Upcoming Ph.D. student Izzet Altintas' project, *Prognostic biomarkers, clinical measurements, radiologic findings, and quantitative measurements in acute patients with signs of Deep Venous Thrombosis* investigates the connection between SARS-CoV-2 infection and thromboembolic events, e.g. via biomarkers of ageing. The applicants/supervisors are Ove Andersen, Lene Juel Rasmussen, Kasper Iversen, and Jan Nehlin.



Ph.D. student Nikolaj Normann Holm's project, Register-based disease trajectories in cardiovascular conditions compared to trajectories in cardiovascular conditions complicated by psychiatric conditions explores the modelling of chronic disease trajectories with related exogenous information from a modern data science point-of-view and provide interpretable results on the complex processes that govern the development of chronic conditions over time. The applicants/supervisors are Anne Frølich, Anders Stockmarr, Kim Dalhoff, Bjarne Ersbøll, and Ove Andersen.



Ph.D. student Anne Kathrine Benggaard's project, *Identification of biomarker, organ dysfunction and drug accumulation in acute care* investigates biomarkers for disease severity and renal biomarkers to optimize treatment in older individuals and identify older patients at high risk of future renal failure and drug accumulation using innovative technology. The applicants/supervisors are Anja Boisen, Kim Dalhoff, Morten Houllind, and Jesper Eugen-Olsen.



Furthermore, some additional Ph.D. projects within the ACUTE CAG framework are being planned

Steffen Heegaard, Anders Fink-Jensen, and Ove Andersen are planning a joint Ph.D. project on eye diseases, *The correlation between impaired sight, age, quality of life, and acute submission to hospital.*

In collaboration with Nicolai Bang Foss, Henrik Wolsted is working on his Ph.D. project titled; *Dynamic effects of norepinephrine on macrocirculatory and perfusion Parameters in ICU Patients with Septic Shock.*

Esben Iversen has been enrolled at the University of Copenhagen with the Ph.D. project. *Chronic inflammation and age-related decline in kidney function.*

Kasper Iversen and others are planning a Ph.D. collaboration on I-EWS (adjusted Early Warning Score).

ACUTE CAG is also taking part in several international collaborations

The validation of biomarkers for chronic inflammation in a lifelong perspective together with DUKE University. The collaboration utilizes two major Danish cohorts; the Copenhagen Aging and Midlife Biobank (CAMB) and Health2006.

MARK-AGE, a large-scale integrated project supported by the European Commission comprised 26 European research partners identifying a powerful set of biomarkers of human aging.

ACUTE CAG contact information

Governance team:

Ove Andersen, ove.andersen@regionh.dk, +45 38 62 33 35

Lene Juel Rasmussen, lenera@sund.ku.dk, +45 29 17 65 32

Secretary function:

Linda Andresen, linda.camilla.andresen@regionh.dk, + 45 38 62 33 22

Henriette Møller, henriette.moeller.02@regionh.dk, +45 38 62 15 01