

Press release

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Basic information

Name: Michala Herskind Sejrs Email: michhers@rm.dk Phone: 21900543

Department of: Clinical Medicine

Main supervisor: Professor Jens Cosedis Nielsen

Title of dissertation: Atrial fibrillation and premature atrial complexes in patients with ischemic stroke or TIA

Date for defence: March 28nd at (time of day): 2 pm Place: The auditorium at Region Hospital Vest Jutland in herning

Press release (Danish)

Forkammerflimren og ekstra hjerteslag hos patienter med blodprop i hjernen

I ph.d. studiet deltog 1507 patienter fra Neurologisk Afdeling HEV med nylig blodprop i hjernen (60% iskæmisk stroke, 40% TCI). Udredning for forkammerflimren er anbefalet for denne patientgruppe, da antikoagulerende behandling kan reducere risikoen for ny blodprop i hjernen. Kontinuerlig EKG optagelse (Holter) har været guldstandard til udredning for atrieflimren i årtier, men optagelsen er tidskrævende at analysere. Nyere eksterne loop optagere (ELR) kan optage i op til 32 dage og analyserer automatisk hjerterytmen, hvilket gør vurdering af optagelsen hurtigere. Studiets formål var at sammenligne sensitivitet, specificitet og positiv prædiktiv værdi for ELR i forhold til samtidig kontinuerlig EKG optagelse (guldstandard); samt at vurdere den diagnostiske værdi af 7-dages ELR i forhold til 2-dages kontinuert EKG. Udover det kliniske studie, indeholder afhandlingen et systematisk review og et registerstudie, der begge belyser associationen mellem mange ekstra hjerteslag (premature atriale komplekser) og risiko for gentagen blodprop i hjernen og død. Data er fra henholdsvis systematisk litteratur søgning samt data fra det kliniske studie koblet med registerdata fra bl.a. dansk Apopleksi Register. Studiet er gennemført i forbindelse med et nyt ph.d.-projekt fra Aarhus Universitet, Health. Projektet er gennemført af Michala Herskind Sejrs, der forsvare det d. 28/03-2019

Forsvaret af ph.d.-projektet er offentligt og finder sted den 28/03-2019 i auditoriet, Regionshospitalet Herning, Gl. Landevej 61, Herning. Titlen på projektet er "Atrial fibrillation and premature atrial complexes in patients with ischemic stroke or TIA". Yderligere oplysninger: Ph.d.-studerende Michala Herskind Sejrs, e-mail: michhers@rm.dk, tlf. 21900543.

Bedømmelsesudvalg:

Thomas Decker Christensen, Associate Professor, MD, PhD (Chairman)
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Mårten Rosenqvist, Professor, MD, PhD
Department of Clinical Sciences, Danderyd Hospital, Stockholm, Sweden

Press release (English)

Atrial fibrillation and premature atrial complexes in patients with ischemic stroke or TIA

This PhD study involved 1507 patients with recent ischemic stroke, 60% or TIA, 40%. Detection of atrial fibrillation in ischemic stroke or TIA patients is important to reduce risk of recurrence by implementation of oral anticoagulation treatment. Continuous ECG recording (Holter) has been a recognized gold standard for atrial fibrillation detection through decades, but the recordings are very time-consuming to analyze. Newer external loop recorders (ELRs) can record up to 32 days and automatically analyzes the heart rate, accelerating the evaluation of recordings. The aim of the study was to compare ELR sensitivity, specificity and positive predictive value compared to simultaneous continuous ECG recording (gold standard); and to evaluate the diagnostic value of 7-day ELR compared to 2-day continuous ECG. In addition to the clinical study, the thesis contains a systematic review and a registry study, both illustrating the association between premature atrial complexes and the risk of recurrent stroke/TIA or death. Data were from systematic literature search as well as clinical study data linked with register data from the Danish Stroke Registry. The project was carried out by Michala Herskind Sejr, who is defending her dissertation on March 28th.

The defence is public and takes place on March 28th, in the auditorium at Regional Hospital West Jutland, Gl. Landevej 61, Herning. The title of the project is Atrial fibrillation and premature atrial complexes in patients with ischemic stroke or TIA. For more information, please contact PhD student Michala Herskind Sejr, email: michhers@rm.dk, Phone +45 21900543.

Assessment committee:

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