



INVITATION – PHD DEFENCE

ALEXANDER GRAMM KRISTENSEN, MD

”Early diagnosis and understanding underlying mechanisms of diabetic neuropathy”

Friday 7 February 2020 at 14.15

Auditorium J116-113, Entrance J, Aarhus University Hospital, Palle Juul-Jensens Boulevard 99, 8200 Aarhus N

The defence is public, in English and expected to last 2 hours.
Following the defence there will be a reception.



Assessment committee

- Professor Michael Pedersen (chairman and moderator of the defence)
Department of Clinical Medicine, Comparative Medicine Lab, Aarhus University Hospital
- Postdoctoral fellow James Howells
Faculty of Medicine and Health, the University of Sydney | Central Clinical School
- Professor Christian Krarup
Department of Clinical Neurophysiology, University of Copenhagen

Supervisors

- Professor Nanna Brix Finnerup
The Danish Pain Research Center, Department of Clinical Medicine, Aarhus University
- Professor Henning Andersen
Department of Neurology, Aarhus University Hospital
- Professor Troels Staehelin Jensen
The Danish Pain Research Center, Department of Clinical Medicine, Aarhus University
- Consultant, associate professor Hatice Tankisi (main supervisor)
Department of Clinical Neurophysiology, Aarhus University Hospital, Aarhus, Denmark



AARHUS
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HEALTH – DEPARTMENT OF CLINICAL MEDICINE
Danish Pain Research Center



PRESS RELEASE

Alexander Gramm Kristensen, MD, from Department of Clinical Neurophysiology (Clinical Medicine), will defend his PhD thesis titled "Early diagnosis and understanding underlying mechanisms of diabetic neuropathy" at 14.15 on 7th February 2020. The defence is in English and will last approximately 2 hours.

PRESSEMEDDELELSE

Tidlig diagnostik af diabetisk nerveskade og undersøgelse af mekanismer bag.

Den præcise årsag til nerveskade hos patienter med type 2 diabetes mellitus er endnu ukendt. Tidlig opsporing af nerveskade på baggrund af type 2 diabetes er af værdi både i behandling og i forskning inden for dette område. Disse problematikker behandles i et nyt ph.d.-projekt fra Aarhus Universitet, Health. Projektet er gennemført af Alexander Gramm Kristensen, der forsvare det d. 07/02 - 20

Nerveskade som følge af type 2 diabetes har kun symptomlindrende behandling. Antallet af patienter med type 2 diabetes på verdensplan er stigende. Som følge heraf, vil der være et stort behov for tidlig opsporing af nerveskaden for at forebygge forværring, samt dybere forståelse for årsagen til denne for at kunne tilbyde en effektiv behandling i fremtiden. I dette Ph.D. projekt anvendtes nye neurofysiologiske metoder til at undersøge nerver hos patienter med type 2 diabetes. Tre nye metoder anvendtes, hvor den ene tillader at estimere antallet af nervefibre som tilgår en muskel, den anden måler indirekte funktionen af ion-kanaler i et nervestykke, og den sidste anvendes til indirekte at måle ion-kanalers funktion i muskelfibre.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 07/02 - 20 kl. 14.15 i Auditorium J116-113, Entrance J, Aarhus University Hospital, Palle Juul-Jensens Boulevard 99, 8200 Aarhus N. Titlen på projektet er "Early diagnosis and understanding underlying mechanisms of diabetic neuropathy". Yderligere oplysninger: Ph.d.-studerende Alexander Gramm Kristensen, e-mail: alexgramm@clin.au.dk, tlf. 21 78 46 22.

Early diagnosis of diabetic neuropathy and examination of underlying mechanisms

The exact cause of nerve degeneration in patients with diabetes mellitus type 2 is still unknown. Early detection of nerve degeneration caused by type 2 diabetes is of value in both treatment and the study of this area. These issues are treated in a new Ph.D. project from Aarhus University, Health. The project was carried out by Alexander Gramm Kristensen, who is defending his dissertation on 07/02 - 20.

Nerve degeneration caused by type 2 diabetes has no other treatment than symptomatic. The number of patients with type 2 diabetes is rising globally. Effective treatment in the future will rely on early detection and a better understanding of the underlying mechanisms to prevent the disease and broaden treatment options. In this Ph.D. Project, new neurophysiologic methods were used to examine the nerves of type 2 diabetic patients. Three novel methods were utilized, where one allowed estimation of the number of nerve fibers supplying a single muscle, one indirectly measured the function of ion-channels in the examined nerve, while another examined the ion-channel function for muscle fibers, indirectly.

The defence is public and takes place on 07/02 - 20 at 14.15 in Auditorium J116-113, Entrance J, Aarhus University Hospital, Palle Juul-Jensens Boulevard 99, 8200 Aarhus N. The title of the project is "Early diagnosis and understanding underlying mechanisms of diabetic neuropathy". For more information, please contact PhD student Alexander Gramm Kristensen, email: alexgramm@clin.au.dk, Phone +45 2178 4622.

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