



# 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



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Danish Pain Research Center



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# PRESS RELEASE

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*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.*

## PRESS RELEASE

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 February 7. 2020 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

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