

Press release

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Basic information

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Department of: Clinical Medicine

Main supervisor: Mikkel Mylius Rasmussen

Title of dissertation: Medial Branch Nerve Denervation by Cryoneurolysis and Radiofrequency in Patients with Facetogenic Chronic Low Back Pain

Date for defence: 6th May 2024 at (time of day): 2 PM (kl. 14.00) Place: Conference room G206-122, Aarhus University Hospital, Indgang G, Palle Juul-Jensens Boulevard 165, 8200 Aarhus N

Press release (Danish)

Lænderygsmarter påvirker 577 millioner mennesker på verdensplan, heraf vil 5-10% udvikle en kronisk lidelse, defineret som vedvarende eller fluktuerende smerter i mere end tre måneder. I de fleste tilfælde af kroniske lændesmerter er årsagen facetleddene. Facetleddene innerveres af the medial branch nerve, som i årtier har været målet for radiofrekvens denervering også kaldt termokoagulation eller varmebehandling som smertebehandling. Cryoneurolyse eller frysebehandling er en alternativ metode. I dette ph.d. projekt blev 120 patienter randomiseret 1:1:1 til denervering af the medial branch nerve ved enten cryoneurolyse, radiofrekvens denervering eller placebo, efterfulgt af specialiseret fysioterapi og langtidsopfølgning på 12 måneder for at vurdere effekten af radiofrekvens denervering og cryoneurolyse på impression of change, smerteintensitet, funktion og livskvalitet ved sammenligning med placebo.

Projektet er gennemført af Kamilla Truong, der forsvarer det d. 6/5-2024 kl 14.00

Forsvaret af ph.d.-projektet er offentligt og finder sted den 6/5-2024 kl. 14.00 i Konferancelokale G206-122, Aarhus Universitetshospital, Indgang G, Palle Juul-Jensens Boulevard 165, 8200 Aarhus N. Titlen på projektet er "Medial Branch Nerve Denervation by Cryoneurolysis and Radiofrequency in Patients with Facetogenic Chronic Low Back Pain".

Yderligere oplysninger: Ph.d.-studerende Kamilla Truong, e-mail: Kamilla.truong@clin.au.dk

Bedømmelsesudvalg:

- Professor Nanna Brix Finnerup, MD DrMedSc (formand), Institut for Klinisk Medicin - Dansk Smerteforskningscenter, Aarhus Universitet, Aarhus, Danmark.
- Klinisk Professor Einar Ottestad, MD Akut smerte medicin, Stanford University, School of Medicine, Stanford, USA
- Professor Berit Schiøttz-Christensen, MD PhD, Forskningsenheden for Almen Praksis (FEA), Institut for Sundhedstjenesteforskning, Syddansk Universitet, Odense, Danmark

Press release (English)

Low back pain affects 577 million people globally, with 5–10% developing a chronic disorder, defined as persistent or fluctuating pain for more than three months. In most cases of chronic low back pain, the facet joints are the source of pain. The medial branch nerve innervates the facet joints and has been a target for radiofrequency denervation for decades as pain management. Cryoneurolysis is an alternative method. In this Ph.D. project, 120 patients were randomized 1:1:1 for denervation of the medial branch nerve by either

cryoneurolysis, radiofrequency denervation, or placebo with an add-on of post-procedural physical therapy and long-term follow-up of 12 months to assess the effect of radiofrequency denervation and cryoneurolysis on impression of change, pain intensity, function, and quality of life compared with placebo.

The project was carried out by Kamilla Truong, who is defending her dissertation on "Medial Branch Nerve Denervation by Cryoneurolysis and Radiofrequency in Patients with Facetogenic Chronic Low Back Pain".

The defence is public and takes place on 6/5-2024 at 2 PM in Conference room G206-122, Aarhus University hospital, Entrance G, Palle Juul-Jensens Boulevard 165, 8200 Aarhus N. The title of the project is "Medial Branch Nerve Denervation by Cryoneurolysis and Radiofrequency in Patients with Facetogenic Chronic Low Back Pain".

For more information, please contact PhD student Kamilla Truong, email: Kamilla.truong@clin.au.dk

Assessment committee:

- Professor Nanna Brix Finnerup, MD DrMedSc (chair) Department of Clinical Medicine - The Danish Pain Research Center, Aarhus University, Aarhus, Denmark.
- Clinical Professor Einar Ottestad, MD Acute Pain Medicine, Stanford University, School of Medicine, Stanford, USA
- Professor Berit Schiøttz-Christensen, MD PhD Research Unit of General Practice, Department of Public Health, University of Southern Denmark, Odense, Denmark.

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