

Press release

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Basic information

Name: Pelle Hanberg Email: pellehanberg@clin.au.dk Phone: 28744852

Department of: Public Health

Main supervisor: Maiken Stilling

Title of dissertation: Peri- and Post-operative Influence of Tourniquet Application on Cefuroxime Tissue Concentrations and Tissue Ischemia

Date for defence: 23/4 at (time of day): 10 Place: Auditorium G206-142, Aarhus University Hospital and Zoom

(<https://us02web.zoom.us/j/85643707199?pwd=M2hpQWZsald4aU93TVNjUitMUk8wQT09> - Meeting ID: 856 4370 7199 - Passcode: 303037)

Press release (Danish)

Kan vi optimere brugen af blodtomhed?

Antibiotika er en integreret del af infektionsprofylakse inden for ortopædkirurgien, hvor blodtomhed er et hyppigt anvendt redskab. Timingen af antibiotikaprofylakse i relation til blodtomhed har længe været debatteret, og der findes ingen klare retningslinjer. Desuden er blodtomhed blevet associeret med multiple bivirkninger relateret til blodtomhedsinduceret vævsiskæmi. Formålet med dette PhD projekt, var derfor at validere og anvende mikrodialysemetoden til at undersøge koncentrationerne af cefuroxim og iskæmiske metabolitter før, under og efter blodtomhed i knoglevæv, muskel og subcutis. Resultaterne er sammenfattet i et nyt ph.d.-projekt fra Aarhus Universitet, Health. Projektet er gennemført af Pelle Hanberg, der forsvare det d. 23/4-2021

Forsvaret af ph.d.-projektet er offentligt og finder sted den 23/4 kl. 10.00 i Auditorium G206-142, Aarhus Universitetshospital, Palle Juul-Jensens Boulevard 99, 8200 Aarhus N og på Zoom (<https://us02web.zoom.us/j/85643707199?pwd=M2hpQWZsald4aU93TVNjUitMUk8wQT09> - Meeting ID: 856 4370 7199, Passcode: 303037). Titlen på projektet er "Peri- and Post-operative Influence of Tourniquet Application on Cefuroxime Tissue Concentrations and Tissue Ischemia". Yderligere oplysninger: Ph.d.-studerende Pelle Hanberg, e-mail: pellehanberg@clin.au.dk, tlf. 28744852.

Bedømmelsesudvalg:

Anne-Mette Hvas, Deputy Head of Department for Research & Talent, Professor (formand)
Department of Clinical Medicine Health, Aarhus University, INCUBA, Denmark

Jason Roberts, Professor, NHMRC Practitioner Fellow
University of Queensland Centre for Clinical Research, The University of Queensland, Royal Brisbane and Women's Hospital, Australia

Søren Kold, Professor

Head of Limb Lengthening and Reconstruction, Department of Orthopaedics, Aalborg University Hospital, Denmark

Press release (English)

Can the use of tourniquet be optimized?

Antibiotics are an integral part of infection prophylaxis in orthopaedic surgery, and tourniquets are widely used during many of those same surgeries. The timing of antibiotic administration in relation

to tourniquet use has long been debated. Furthermore, Tourniquet use has been associated with multiple adverse effects related to tourniquet induced tissue ischemia. The objective with this PhD project was, therefore, to validate and apply microdialysis in order to evaluate the effects of tourniquet application on both peri- and post-operative cefuroxime and ischemic metabolite concentrations in bone, muscle and subcutaneous tissues. The results are presented in a new PhD project carried out by Pelle Hanberg, who is defending his dissertation on 23/4-21.

The defence is public and takes place on 23/4-21 at 10.00 in Auditorium G206-142, Aarhus University Hospital, Palle Juul-Jensens Boulevard 99, 8200 Aarhus N and on Zoom (<https://us02web.zoom.us/j/85643707199?pwd=M2hpQWZsald4aU93TVNjUitMUk8wQT09> - Meeting ID: 856 4370 7199 - Passcode: 303037). The title of the project is "Peri- and Post-operative Influence of Tourniquet Application on Cefuroxime Tissue Concentrations and Tissue Ischemia". For more information, please contact PhD student Pelle Hanberg, email: pellehanberg@clin.au.dk, Phone +45 28744852.

Assessment committee:

Anne-Mette Hvas, Deputy Head of Department for Research & Talent, Professor (Chairman and moderator of the defence)
Department of Clinical Medicine Health, Aarhus University, INCUBA, Denmark

Jason Roberts, Professor, NHMRC Practitioner Fellow
University of Queensland Centre for Clinical Research, The University of Queensland, Royal Brisbane and Women's Hospital, Australia

Søren Kold, Professor
Head of Limb Lengthening and Reconstruction, Department of Orthopaedics, Aalborg University Hospital, Denmark

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