

## Press release

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### Basic information

Name: Andreas Engel Krag      Email: [aek@clin.au.dk](mailto:aek@clin.au.dk) Phone: 42766959

Department of: Clinical Medicine

Main supervisor: Professor, overlæge, ph.d. Anne-Mette Hvas

Title of dissertation: Ischemic Conditioning and Hemostasis in Surgery

Date for defence: April 24, 2020 at (time of day): 14:00 Place: Virtual defence via Zoom

Press release (Danish)

Effekten af iskæmisk konditionering på blodstørkningen under kirurgi

Iskæmisk konditionering er en eksperimentel behandling som består i at inducere kortvarige perioder med afbrydelse og genopretning af blodforsyningen til patients arm ved brug af en oppustelig blodtryksmanchet. Tidligere forskning har fokuseret på den vævsbestyttende effekt af iskæmisk konditionering, men behandlingen har potentielt også en vigtig rolle at spille i forebyggelse af blødningskomplikationer hos patienter som opereres, viser en nyt ph.d.-projekt fra Aarhus Universitet, Health. Projektet er gennemført af læge Andreas Engel Krag, der forsvarer det d. 24/4/2020.

Ph.d.-projektet bidrager med ny viden om hvordan iskæmisk konditionering påvirker blodstørkningen under kirurgiske procedurer ved undersøgelse i en dyremodel, i et klinisk forsøg med kræftpatienter som opereres og i en systematisk litteraturgennemgang og meta-analyse af alle tidligere kliniske forsøg med patienter som opereres.

Forsvaret af ph.d.-afhandlingen er offentligt og finder sted den 24/2/2020 kl. 14:00 via Zoom. Link med adgang til forsvaret kan fremsendes ved henvendelse til Andreas Engel Krag via nedenstående kontaktoplysninger. Titlen på afhandlingen er "Ischemic Conditioning and Hemostasis in Surgery". Yderligere oplysninger: Læge Andreas Engel Krag, e-mail: [aek@clin.au.dk](mailto:aek@clin.au.dk), tlf. 42766959.

Bedømmelsesudvalg:

Professor, overlæge, dr.med. Grethe Andersen, Neurologi, Aarhus Universitetshospital.

Professor, overlæge, ph.d. Riitta Lassila, Afdeling for Koagulation, Helsinki Universitetshospital.

Professor, overlæge, ph.d. Jens Ahm Sørensen, Plastikkirurgisk Afdeling, Odense Universitetshospital.

Press release (English)

The effect of ischemic conditioning on hemostasis in surgery

Ischemic conditioning is an experimental treatment administered by brief alternating periods of occlusion and re-establishment of blood supply to the patient's upper limb using an inflatable tourniquet. Previous research have investigated the tissue-protective effect of ischemic conditioning but the treatment may also have a new role as a hemostatic intervention in surgery, which is presented in a new PhD project from Aarhus University, Health. The PhD project was carried out by Andreas Engel Krag, MD, who is defending his dissertation on April 24, 2020.

The PhD project presents new evidence on the effect of ischemic conditioning on hemostasis in surgery from an animal model, a clinical trial including cancer patients undergoing surgery, and a systematic review and meta-analysis of existing clinical trials on patients undergoing surgery.

The defence is public and takes place on April 24, 2020 at 2:00 PM on Zoom via. Please contact Andreas Engel Krag using the contact information described below to get access to the virtual defence. The title of the project is "Ischemic Conditioning and Hemostasis in Surgery". For more information, please contact Andreas Engel Krag, MD, email: aek@clin.au.dk, Phone +45 42766959.

Assessment committee:

Professor Grethe Andersen, MD, DMSc, Department of Neurology, Aarhus University Hospital.

Professor Riitta Lassila, MD, PhD, Coagulation Disorders Unit, Helsinki University Hospital.

Professor Jens Ahm Sørensen, MD, PhD, Department of Plastic Surgery, Odense University Hospital.

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