

## Press release

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### Basic information

Name: Kamilla Pernille Bjerre Email: kambje@rm.dk Phone: 53535832

Department of: Clinical Medicine

Main supervisor: Hans Eiskjær, MD, Prof., DMSc

Title of dissertation: "Cardiac Allograft Vasculopathy in heart transplant recipients: Mechanisms and progression"

Date for defence: 22.04.21 at (time of day): 15:30 Place: Auditorium B (Indgang G, G206), The defence can be attended virtually via Zoom: <https://aarhusuniversity.zoom.us/j/9340584433>

Press release (Danish)

### Kranspulsåresygdom hos hjertetransplanterede patienter

Kranspulsåresygdom (CAV) efter hjertetransplantation (HTx) er en hyppig og frygtet komplikation, der angriber både kranspulsårer og små blodårer i hjertet. Idet CAV ofte er uden symptomer, er invasiv CAV-overvågning med koronar arteriografi (KAG) nødvendig hvert eller hvert andet år efter HTx, hvilket udsætter patienter for risici og ubehag. Årsagen til CAV er meget kompleks og ikke fuldt klarlagt. Behandlingsmulighederne er begrænsede og inkluderer blandt andet blodpladehæmmerbehandling med Hjertemagnyl som ved almindelig kranspulsåresygdom. I denne Ph.D.-afhandling var formålene at undersøge mulige mekanismer involverede i udviklingen af CAV samt effekten af behandling med Hjertemagnyl hos HTx-patienter. Desuden var formålet at undersøge, hvorvidt ikke-invasive ekkokardiografiske metoder kunne anvendes til screening for CAV. Resultaterne præsenteres med baggrund i et nyt ph.d.-projekt fra Aarhus Universitet, Health. Projektet er gennemført af Kamilla Pernille Bjerre, der forsvare det d. 22/4-21.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 22/4-21 kl. 15:15 i Auditorium B, Indg. G, G206, Aarhus Universitetshospital, Palle Juul Jensens Boulevard, Aarhus N. Titlen på projektet er "Kranspulsåresygdom hos hjertetransplanterede patienter: Mekanismer og progression". Yderligere oplysninger: Ph.d.-studerende Kamilla Pernille Bjerre, e-mail: kambje@rm.dk, tlf. 5353 5832.

Bedømmelsesudvalg:

Læge, lektor og PhD Nicolaas De Jonge

Kardiologisk afdeling, enhed for hjertetransplantation, University Medical Center, Utrecht, Netherlands.

Overlæge, lektor og PhD Lene Holmvang

Kardiologisk afdeling, Rigshospitalet, København, Danmark.

Overlæge, Professor, DMSc Jens Erik Nielsen-Kudsk (chairman)

Kardiologisk afdeling, Aarhus Universitetshospital, Danmark.

Press release (English)

### Coronary artery disease in heart transplant patients

Coronary artery disease (CAV) after heart transplantation (HTx) is a frequent and feared complication that attacks both the coronary arteries and small blood vessels in the heart. As CAV is often asymptomatic, invasive CAV monitoring with coronary angiography (CAG) is necessary every one or two years after HTx, exposing patients to risks and discomfort. The cause of CAV is very complex and

not fully elucidated. The treatment options are limited and include, among other things, platelet inhibitor treatment with aspirin as in common coronary artery disease. In this Ph.D. thesis, the aims were to investigate possible mechanisms involved in the development of CAV as well as the effect of treatment with aspirin in HTx patients. In addition, the purpose was to investigate whether non-invasive echocardiographic methods could be used for screening for CAV. The results are presented on the basis of a new PhD project from Aarhus University, Health. The project was carried out by Kamilla Pernille Bjerre, who is defending her dissertation on 22/4-21.

The defence is public and takes place on 22/4-21 at Auditorium B, Indg. G, G206, Aarhus Universitetshospital, Palle Juul Jensens Boulevard, Aarhus N. The title of the project is "Cardiac Allograft Vasculopathy in heart transplant recipients: Mechanisms and progression". For more information, please contact PhD student Kamilla Pernille Bjerre, email: kambje@rm.dk, Phone +45 5353 5832.

Assessment committee:

Nicolaas De Jonge, Associate professor, MD, PhD  
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