

Press release

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Basic information

Name: Simin Berenji Ardestani

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Department of: Clinical Medicine

Main supervisor: Professor Michael Pedersen

Title of dissertation: Endothelial function after simulated heliox diving in ApoE Knockout rats: a pro-atherosclerotic model

Date for defence: April 16th, 2020 at (time of day): 15:00 Place: Online defence via Microsoft Teams: [link](#)

Press release (Danish)

Endotheliel funktion efter simuleret heliox-dykning i ApoE Knockout rotter: en pro-aterosklerose model

Resultaterne fra dette PhD studium viste at endothelial dysfunktion var øget i ApoE KO rotter udsat for fedttrig (Western) diæt. En enkelt dykning forårsagede endotheliel dysfunktion i lunge-blodkar, men udelukkende i hankøns ApoE KO rotter, men ikke i mesenteriske blodkar. Derimod viste en 7 ugers dykningsprotokol endotheliel dysfunktion i både mesenteriske og lunge-blodkar. Konklusion: Rotter med tidlig aterosklerose er mere udsat for endotheliel dysfunktion sammenlignet med raske/normale rotter. Risiko for aterosklerose synes derfor ændret i ældre dykkere med kardiovaskulære risiko-faktorer. Projektet er gennemført som ph.d.-projekt fra Aarhus Universitet, Health Fakultet. Projektet er gennemført af Simin Berenji Ardestani.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 16/04 kl. 15:00 via Microsoft Team. Kontakt Simin Berenji Ardestani, simin.berenji@clin.au.dk, før 15 April 2020, 15:00.

Titlen på projektet er "Endothelial function after simulated heliox diving in ApoE Knockout rats: a pro- atherosclerotic model". Yderligere oplysninger: Ph.d.-studerende Simin Berenji Ardestanji, e-mail: simin.berenji@clin.au.dk, tlf. +45 81907227.

Bedømmelsesudvalg:

Professor Ulf Simonsen - chairman of the committee and moderator of the defence
Department of Biomedicine, Aarhus University, Denmark

Associate Professor Maria Bloksgaard Mølgaard
Department of Cardiovascular and Renal Research University of Southern Denmark

Senior Researcher Andreas Fahlman
Fundacion Oceanogràfic C/. Eduardo Primo Yúfera (Científic), Valencia, Spain

Press release (English)

Endothelial function after simulated heliox diving in ApoE Knockout rats: a pro-atherosclerotic model

The results from this PhD study showed endothelial dysfunction was aggravated in ApoE rats fed with Western diet. One time diving caused endothelial dysfunction in pulmonary arteries of male ApoE KO rats exceptionally, while the mesenteric arteries were not affected. However, 7 weeks of diving caused endothelial dysfunction in both pulmonary and mesenteric arteries of male ApoE KO rats. In conclusion, the pro-atherosclerosis rats are exposed to more severe endothelial dysfunction in comparison to the healthy ones and percussion should consider in older divers with cardiovascular risk factors. The project was carried out by Simin Berenji Ardestani, who is defending her dissertation on 16/04 2020.

The defence is public and takes place on 16/04 at 15:00. The defence is public and takes place on 16/04 at 15:00. The defence will be held online via Microsoft Teams and is open to the public.

If you would like to attend, please register with Simin Berenji Ardestani, simin.berenji@clin.au.dk, no later than 15 April 2020, 15:00.

The title of the project is "Endothelial function after simulated heliox diving in ApoE Knockout rats: a pro- atherosclerotic model". For more information, please contact PhD student Simin Berenji Ardestani, email: simin.berenji@clin.au.dk, Phone +45 81907227.

Assessment committee:

Professor Ulf Simonsen - chairman of the committee and moderator of the defence
Department of Biomedicine, Aarhus University, Denmark

Associate Professor Maria Bloksgaard Mølgaard
Department of Cardiovascular and Renal Research University of Southern Denmark

Senior Researcher Andreas Fahlman
Fundacion Oceanogràfic C/. Eduardo Primo Yúfera (Científic), Valencia, Spain

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