

## Press release

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### Basic information

Name: Vibeke Bay                      Email: [vibeke.bay@clin.au.dk](mailto:vibeke.bay@clin.au.dk) Phone: 78471122

Department of: Clinical Medicine

Main supervisor: Professor Gregers Wegener

Title of dissertation: Novel approaches to modeling pre-stroke depression in the rat

Date for defence: 8<sup>th</sup> of January at (time of day): 14:00 Place: Mødelokale 2, Studentarhusfonden, Frederik Nielsens Vej 2-4, 8000 Aarhus C

Press release (Danish)

"Nye måder til undersøgelse af forudgående depressions påvirkning på blodpropper i hjernen i en rottemodel"

I et nyt Ph.D.-projekt fra Institut for Klinisk Medicin, Aarhus Universitet undersøges det i en rottemodel om en forudgående depression kan påvirke størrelsen på den vævsskade der opstår ved en blodprop i hjernen. Projektet er gennemført af Vibeke Bay, som forsvare sin afhandling den 8. januar 2019.

Depression og blodpropper i hjernen er hver især meget alvorlige sygdomme, men når disse sygdomme kombineres, er der flere aspekter man skal være opmærksomme på. Depression kan nemlig øge risikoen for blodpropper i hjernen men samtidig kan en blodprop i hjernen også øge risikoen for at udvikle depression.

Det er allerede blevet vist at depression forud for en blodprop kan have en effekt på patientens risiko for at dø og på patientens efterfølgende funktionalitet. I forlængelse af disse fund, undersøger dette Ph.D.-projekt om depression forud for en blodprop kan have en indflydelse på størrelsen af vævsskade i hjernen.

Derudover har Ph.D.-projektet undersøgt optimale visualiserings teknikker til at studere vævsskaden i hjernen. De følgende teknikker er blevet brugt: histologi, immunhistologi og MR scanning.

Forsvaret af Ph.D.-projektet er offentligt og finder sted den 8. januar 2019 kl. 14:00 i Mødelokale 2, Studentarhusfonden, Frederik Nielsens Vej 2-4, 8000 Aarhus C. Forsvaret holdes på engelsk. Projektets danske titel er "Nye måder til undersøgelse af forudgående depressions påvirkning på blodpropper i hjernen i en rottemodel".

Yderligere oplysninger: Ph.d.-studerende Vibeke Bay, e-mail: [vibeke.bay@clin.au.dk](mailto:vibeke.bay@clin.au.dk), tlf. 78471122.

Bedømmelsesudvalg:

Professor Michael Pedersen (Chairman)

Comparative Medicine Lab, Department of Clinical Medicine, Aarhus University, Aarhus, Denmark

Assistant Professor Shawn Whitehead

Department of Anatomy and Cell Biology, Schulich School of Medicine and Dentistry, Western University, London, Ontario, Canada

Assistant Professor Aet O'Leary

Translationale Psychiatrie Klinik für Psychiatrie, Goethe University, Frankfurt, Germany

Press release (English)

## Novel approaches to modeling pre-stroke depression in the rat

In a new PhD project from Department of Clinical Medicine, Aarhus University the effect of existing depression on the stroke infarct volume was investigated. The project was carried out by Vibeke Bay, who is defending her dissertation on the 8<sup>th</sup> of January 2019.

Stroke and depression are individually responsible for a large disease and financial burden across the global population. However, when assessing the diseases in combination, many additional issues are relevant since depression has been shown to increase the risk of stroke and to be a common complication for stroke patients.

Previously, it has been established that depression prior to a stroke increases the risk of mortality and it has also been found to worsen the functional outcome of patients. As an extension to these findings, this PhD project tested whether depression prior to a stroke also has an effect on the size of the tissue damage in the brain.

Additionally, the PhD project investigated optimal visualization techniques to examine the tissue damage in the brain. The following methods have been used: histology, immunohistochemistry and MRI.

The defence is public and takes place on the 8<sup>th</sup> of January at 14:00 in Mødelokale 2, Studenterhusfonden, Frederik Nielsens Vej 2-4, 8000 Aarhus C. The title of the project is "Novel approaches to modeling pre-stroke depression in the rat".

For more information, please contact PhD student Vibeke Bay, email: [vibeke.bay@clin.au.dk](mailto:vibeke.bay@clin.au.dk), Phone +45 78471122.

Assessment committee:

Professor Michael Pedersen (Chairman)

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