

Press release

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Basic information

Name: Signe Voigt Lauridsen Email: siglai@rm.dk Phone: +4529767501

Department of: Clinical Medicine

Main supervisor: Professor Emeritus Else Tønnesen

Title of dissertation: Coagulation and Fibrinolysis Following Spontaneous Intracerebral and Subarachnoid Haemorrhage

Date for defence: April 5th at (time of day): 14.30 Place: Auditorium A (main floor, entrance G), Aarhus University Hospital, Palle Juul-Jensens Boulevard, 8200 Aarhus N

Press release (Danish)

Koagulation og Fibrinolyse efter Spontan Hjerneblødning

Hvert år dør eller invalideres flere tusinde mennesker grundet hjerneblødninger. Atraumatiske hjerneblødninger i denne ph.d.-afhandling, omfatter spontan intracerebral hæmoragi (ICH) og subaraknoidal hæmoragi (SAH). Tidligere studier viser, at der opstår ændringer i blodets evne til at størkne (koagulation) og til at nedbryde blodkoagler (fibrinolyse) efter ICH og SAH. Studierne er få, resultaterne er modstridende.

I de seneste år er der udviklet mere følsomme laboratoriemetoder, funktionelle koagulationstests, der måler den dynamiske udvikling i koagulation og fibrinolyse, der kan bidrage med ny viden. Den akutte fase efter ICH og SAH er vigtig, da behandling givet her ville kunne begrænse blødningens størrelse og hermed mindske dødelighed og funktionstab.

Det overordnede formål var at undersøge ændringer i koagulation og fibrinolyse efter ICH og SAH i den akutte fase hos patienter, uden antikoagulerende og antithrombotisk medicin.

I alt undersøgte vi koagulation og fibrinolyse hos 41 patienter med ICH og 46 patienter med SAH. Vores hypotese var, at ICH og SAH aktiverer koagulation og fibrinolyse i den akutte fase efter symptomdebut sammenholdt med raske personer, men fandt hyperkoagulation men ingen aktiveret fibrinolyse efter ICH og SAH. Studiet er gennemført i forbindelse med et nyt ph.d.-projekt fra Aarhus Universitet, Health. Projektet er gennemført af Læge Signe Voigt Lauridsen, der forsvare det 5/4-2019.

Forsvaret af ph.d projektet er offentligt og finder sted d. 5/4-2019 i Auditorium A (Indgang G, stue etage), Aarhus Universitetshospital, Palle Juul-Jensens Boulevard 99, 8200 Aarhus N. Titlen på projektet er ”Coagulation and Fibrinolysis Following Spontaneous Intracerebral and Subarachnoid Haemorrhage”. Yderligere oplysninger: Læge, Ph.d.-studerende Signe Voigt Lauridsen, e-mail: siglai@rm.dk, tlf: 29767501.

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Press release (English)

Coagulation and Fibrinolysis Following Spontaneous Intracerebral and Subarachnoid Haemorrhage

This thesis studies coagulation following spontaneous intracerebral haemorrhage (ICH) and spontaneous subarachnoid haemorrhage (SAH). ICH and SAH are devastating diseases with high mortality. Survivors often suffer from severe physical and cognitive disabilities.

Coagulopathies following ICH and SAH have been described in previous studies. However, such studies are few, results are conflicting and outcome measures vary between them. In recent years, new and more sensitive laboratory assays have been developed. The acute phase following ICH and SAH is important, because treatment administered in this phase may limit the size of the haemorrhage and thereby affect mortality and functional outcome.

In this thesis, we used several functional assays to investigate coagulation and fibrinolysis in the acute phase following ICH and SAH. The overall aims were to investigate pathways in coagulation and fibrinolysis after ICH and SAH in the acute phase in patients who were not undergoing anticoagulant and antiplatelet therapy.

In total, we investigated coagulation and fibrinolysis in 41 ICH and SAH patients admitted in the acute phase. We hypothesised that ICH and SAH patients display activated coagulation and increased fibrinolysis in the acute phase compared with healthy individuals, and found hypercoagulation but normal fibrinolysis compared with healthy individuals. The project was carried out by Signe Voigt Lauridsen MD, who is defending her dissertation 5/4-19.e

The defence is public and takes place the 5th of April 2019 in Auditorium A (main floor, entrance G), Aarhus University Hospital, Palle Juul-Jensens Boulevard 99, 8200 Aarhus N. The title of the project is "Coagulation and Fibrinolysis Following Spontaneous Intracerebral and Subarachnoid Haemorrhage". For more information, please contact MD PhD student Signe Voigt Lauridsen, email siglai@rm.dk, Phone +45 2976750

Assessment committee:

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