

Media release

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Basic information

Name: Jesper Smit Email: jesm@rn.dk Phone: 26241332

Department of: Clinical Medicine

Main supervisor: Professor Henrik Carl Schönheyder, Department of Clinical Microbiology, Aalborg University Hospital

Title of dissertation: Community-acquired Staphylococcus aureus bacteremia: Studies of risk and prognosis with special attention to diabetes mellitus and chronic heart failure

Date for defence: March 10 at (time of day): 1300 Place: Department of Clinical Epidemiology, Aarhus University Hospital, Olof Palmes Allé 43-45, 8200, Aarhus N

Media release (Danish)

Blodforgiftning med stafylokokker: risiko og prognose

Et nyt ph.d.-projekt fra Aarhus Universitet, Health undersøger betydninger af diabetes og kronisk hjertesvigt for risiko og forløb af stafylokokinfektioner. Studiet har omfattet patienter hvor stafylokokinfektionen er fundet i blodet, en alvorlig tilstand der betegnes som blodforgiftning eller bakteræmi. Projektet er gennemført af læge og ph.d.-studerende Jesper Smit, som forsvare sin afhandling fredag den 10. marts 2017.

Fire danske medicinske registre danner udgangspunkt for studiet og i alt er data for næsten 30.000 personer blevet analyseret. Sammenlignet med personer uden diabetes havde patienter med type 2 diabetes næsten tre gange højere risiko for blodforgiftning med stafylokokker. Patienter med diabetiske komplikationer i form af kredsløbsproblemer, fodsår og nyresygdom havde særlig høj risiko for infektion. Kronisk hjertesvigt var forbundet med øget dødelighed hos patienterne, hvilket var særligt udtalt hos patienter som også havde sygdom svarende til hjerteklapperne.

Resultaterne understreger vigtigheden af at forebygge komplikationer hos patienter med diabetes og infektioner som følger deraf. Derudover indikerer fundene, at patienter med hjertesvigt og blodforgiftning med stafylokokker bør følges nøje klinisk, og fremtidige studier bør undersøge om patienternes prognose derved kan forbedres.

Forsvaret af ph.d.-afhandlingen er offentligt og finder sted den 10. marts 2017 kl. 13 i auditoriet, Klinisk Epidemiologisk Afdeling, Aarhus Universitetshospital Skejby, Olof Palmes Allé 43-45, 8200, Aarhus N. Titlen på projektet er "Community-acquired Staphylococcus aureus bacteremia: Studies of risk and prognosis with special attention to diabetes mellitus and chronic heart failure". Yderligere oplysninger: Ph.d.-studerende Jesper Smit, e-mail: jesm@rn.dk, tlf. 26241332.

Media release (English)

Staphylococcal bloodstream infection: risk and prognosis

A new Ph.D.-project from Aarhus University, Health investigates the influences of diabetes and chronic heart failure on the risk and course of staphylococcal infections. The study included patients with staphylococcal blood infection, a serious condition called blood poisoning or bacteremia. The project was carried out by Jesper Smit, MD who is defending his thesis on March 10, 2017.

Four Danish medical registers form the basis of the study and data on almost 30.000 persons were analyzed. Compared with persons without diabetes, the risk of staphylococcal blood infection was

almost three times higher among patients with type 2 diabetes. The risk of infection was particularly pronounced among patients with diabetes complications including circulatory problems, foot ulcers and kidney disease. Chronic heart failure was related to increased risk of death, especially among patients with heart valve disease.

The results emphasize the importance of preventing diabetes complications and infections arising therefrom. Moreover, the results suggest that patients with heart failure and staphylococcal blood infection may benefit from close monitoring, which should be assessed further in future studies.

The defence is public and takes place on March 10, 2017 at the Department of Clinical Epidemiology, Aarhus University Hospital, Skejby, Olof Palmes Allé 43-45, 8200, Aarhus N. The title of the project is "Community-acquired Staphylococcus aureus bacteremia: Studies of risk and prognosis with special attention to diabetes mellitus and chronic heart failure". For more information, please contact Ph.D. student Jesper Smit, email: jesm@rn.dk, telephone +45 26241332.

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