

Press release

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Basic information

Name: Mia Bendix Rasch Email: mb@clin.au.dk Phone: 51885804

Department of: Clinical Medicine

Main supervisor: Jørgen Agnholt

Title of dissertation: Immunological effects of oral vitamin D treatment in Crohn's disease

Date for defence: 23.08.2017 at (time of day): 14.00 Place: Søauditorierne Eduard Biermann

Press release (Danish)

Immunologisk effekter af D vitamin behandling til patienter med Crohn's Sygdom

Patienter med den kroniske tarmbetændelse Crohn's sygdom (CD) oplever tilbagevendende perioder med diarre, mavesmerter og vægttab. Daglig D vitamin behandling har vist sig at kunne halvere antallet af perioder med sygdomsaktivitet. Dette sker angivligt via en påvirkning af immunsystemet. I dette Ph.D. studie har vi undersøgt hvordan D vitamin behandling til CD patienter påvirker bestemte immunceller, kaldet T celler, i blodet. D vitamin behandling ændrede T cellernes signalstof produktion, evnen til at dele sig, øgede deres udtryk af regulerende overflademolekyler samt T cellernes aktivitetsniveau. Den ændrede funktion af T cellen kan være med til at forklare hvorfor D vitamin er gavnlig som behandling til Crohn's sygdom. Yderligere har vi undersøgt om D vitamin også påvirker tarmens immunceller. D vitamin behandling til raske påvirker tarmslinhindens immunceller og deres gener henimod en øget regulering af immuncellerne. Resultaterne er sammenfattet i et nyt ph.d.-projekt fra Aarhus Universitet, Health. Projektet er gennemført af Mia Bendix Rasch, der forsvarer det d. 23/08.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 23/08 kl. 14.00 i Eduard Biermann auditorium, Søauditorierne, Aarhus Universitet, Vennelyst Boulevard 8, 8000 Aarhus C. Titlen på projektet er "Immunological effects of vitamin D treatment in Crohn's disease". Yderligere oplysninger: Ph.d.-studerende Mia Bendix Rasch, e-mail: mb@clin.au.dk, tlf. 51885804.

Bedømmelsesudvalg: Professor Lars Iversen, MD, DMSc,
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Press release (English)

Immunological effects of oral vitamin D treatment in Crohn's disease

Patients with Crohn's Disease (CD), a chronic intestinal relapsing inflammation which results in symptoms like diarrhoea, abdominal pain and weight loss. Daily treatment with vitamin D reduces the number of disease activity episodes with 50 %. This may be due to influence on the immune system. In this phd thesis, we have examined how vitamin D treatment to CD patients affects the blood

immune cells, called T cells. Vitamin D treatment had influence on cytokine productions, proliferation and expression of regulatory surface molecules. These changes in T cell function increases the understanding of the effects of vitamin D in CD. In addition, we examined how vitamin D treatment to healthy subjects affected the intestinal immune cells. Vitamin D treatment increased immune regulatory genes and affected the number of mucosal immune cells. The project was carried out by Mia Bendix Rasch, who is defending her dissertation on 23/08.

The defence is public and takes place on 23/08 at 02.00 pm in Eduard Biermann auditorium, the Lakeside Lecture Theatres, Aarhus Universitet, Vennelyst Boulevard 8, 8000 Aarhus C. The title of the project is Immunological effects of oral vitamin D treatment in Crohn's disease. For more information, please contact PhD student Mia Bendix Rasch, email: mb@clin.au.dk, Phone +45 51885804.

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