

Press release

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Basic information

Name: Ditte Drejer Email: Dittedrejer@clin.au.dk Phone: 0045 2891 9283

Department of: Clinical Medicine

Main supervisor: Professor, overlæge Jørgen Bjerggaard Jensen

Title of dissertation: "New imaging modalities utilised in cystoscopic evaluation of the urinary bladder – studies on Narrow Band Imaging and Photo Dynamic Diagnosis"

Date for defence: 31/8-2018 at (time of day): 14-16 Place: Aud B, indgang G. Aarhus Universitets Hospital, Palle Juul-Jensens Boulevard 99, 8200 Aarhus N, Denmark

Press release (Danish)

Overskrift: "Nye billeddiagnostiske modaliteter anvendt i cystoskopisk evaluering af urinblæren - undersøgelser af Narrow Band Imaging og Photo Dynamisk Diagnostik".

Ikke-invasive blæretumorer har tendens til at komme igen, så patienterne skal ofte gennemgå flere operationer samt indgå i et livslangt kontrolforløb med kikkertundersøgelser. Carcinoma in situ (CIS) klassificeres også som en ikke-invasiv blæretumor, og ubehandlet vil CIS medføre en ganske stor risiko for alvorlig blærekræft. I hvidt lys fremtræder CIS ofte som et rødt eller uldent område i blæren, og det kan være svært at skelne fra normal blæreslimhinde. I de tre studier, der er inkluderet i PhD afhandlingen er der fokuseret på to nye metoder, der kan bruges sammen med hvidt lys i en kikkertundersøgelse af blæren -Photodynamisk Diagnostik (PDD) og Narrow Band Imaging (NBI). I det første studie, var der en betydelig forbedring i forhold til at opdage polypper i blæren, når NBI blev brugt ved patienter, der tidligere havde fået fjernet polypper i blæren. Det andet studie var en sammenligning mellem PDD og NBI, hvor begge metoder var lige gode hvad angik opsporing af CIS og i hvert fald begge to bedre end hvidt lys alene. I det tredje –og endnu ikke afsluttede- studie undersøges det hvorvidt PDD kan bruges i rutineundersøgelser og dermed nedsætte tilbagefaldene. Projektet er gennemført af læge Ditte Drejer, der forsvare det d. 31/08-2018.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 31/08-2018 kl. 14 -16 i Auditorium B, Aarhus Universitet Hospital, Skejby. Palle Juul-Jensens boulevard 99, 8200 Aarhus N. Titlen på projektet er "New imaging modalities utilised in cystoscopic evaluation of the urinary bladder – studies on Narrow Band Imaging and Photo Dynamic Diagnosis". Yderligere oplysninger: Ph.d.-studerende Ditte Drejer, e-mail: Dittedrejer@clin.au.dk, tlf: 28919283.

Bedømmelsesudvalg:

Frede Donskov, DMSc, Associate Professor
Onkologisk afd, Aarhus Universitets Hospital, Danmark

Carl-Jørgen Arum, PhD, Associate Professor
Urologisk afd, St. Olavs Universitet Hospital, Trondheim, Norge

Peter J Bostrom, PhD, Associate Professor
Urologisk afd, Turku Universitet Hospital, Turku, Finland

Press release (English)

Headline: "New imaging modalities utilised in cystoscopic evaluation of the urinary bladder – studies on Narrow Band Imaging and Photo Dynamic Diagnosis".

Non-muscle invasive bladder cancer has a high recurrence rate, which can mean several surgeries and examinations for the patients. White light (WL) cystoscopy is considered the gold standard for detection of bladder cancer. Carcinoma in situ (CIS) is associated with a high risk of progression due to its aggressive and unpredictable nature. In white light, CIS is revealed as an erythematous or velvety area, and is often missed during WL cystoscopy. Therefore, the motivation to develop new optical enhancement techniques is high. The focus of this dissertation is the cystoscopic evaluation of the bladder using photodynamic diagnosis (PDD) and narrow band imaging (NBI).

The first study showed a significant better detection of bladder tumours, if NBI was used in the examination of patients, previously known with non-muscle invasive bladder cancer. The second study was a comparison between PDD and NBI. The two methods had comparable high rates of detecting CIS, but both significant better in comparison to white light, only. The goal of the third study is to examine, if the recurrence rate can be reduced, when PDD is used in a routine surveillance examination.

The project was carried out by MD Ditte Drejer who is defending her dissertation on 31/08-2018.

The defence is public and takes place on 31/08 at 14 -16 , Aud. B, indgang G. Aarhus University Hospital, Skejby, Palle Juul-Jensens boulevard 99, 8200 Aarhus N. The title of the project is "New imaging modalities utilised in cystoscopic evaluation of the urinary bladder – studies on Narrow Band Imaging and Photo Dynamic Diagnosis". For more information, please contact PhD student Ditte Drejer, email: Dittedrejer@clin.au.dk Phone +45 2891 9283.

Assessment committee:

Frede Donskov, DMSc, Associate Professor - chairman of the committee
Department of Oncology, Aarhus University Hospital, Denmark

Carl-Jørgen Arum, PhD, Associate Professor
Department of Urology, St. Olavs University Hospital, Trondheim, Norway

Peter J Bostrom, PhD, Associate Professor
Department of Urology, Turku University Hospital, Turku, Finland

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