AARHUS UNIVERSITY

Press release

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Basic information

Name: Pernille Skjold Kingo Email: pski@clin.au.dk Phone: +4526743182

Department of: Clinical Medicine

Main supervisor: Professor Jørgen Bjerggaard Jensen, MD, DmSc

Title of dissertation: Robot-assisted laparoscopic cystectomy versus open mini-laparotomy cystectomy - Clinical and experimental investigations

Date for defence: 31.03.2017 at (time of day): 14.00 Place: Aarhus University Hospital, Skejby, Aud. B

Press release (Danish)

Robot-assisteret kikkertoperation til behandling af blærekræft viser lovende resultater

Et nyt ph.d.-projekt fra Aarhus Universitet, Health viser at Robot-assisteret kikkertoperation anvendt til fjernelse af blæren ved blærekræft på en række områder er mere gavnlig end den åbne operation. Projektet er gennemført af Læge og PhD-studerende Pernille Skjold Kingo, der forsvarer det d. 31/03/2017. I Danmark diagnosticeres hvert år 1600 nye tilfælde af blæretumorer, hvoraf 25 % har muskelinvasiv blærekræft. Standardbehandlingen af lokaliseret muskelinvasiv blærekræft er kirurgi med fjernelse af blæren (cystektomi) og samtidig anlæggelse af en urinafledning. Proceduren kan udføres enten vha. robot-assisteret kikkertoperation eller ved åben kirurgi. Uanset metode udløses et kirugisk inflammatorisk stress respons, der spiller en vigtig rolle i bevarelsen af immunsystemet efter operation. Minimal invasiv kirurgi menes at mindske dette respons. For første gang indenfor blærekræftbehandling sammenlignes kirurgisk inflammatorisk stress respons ved Robot-assisteret kikkertoperation versus åben mini-laparotomi (8 cm åbning). Projektet præsenterer både via kliniske studier samt i en dyremodel at robot-assisteret kikkertoperation overordnet generer mindre kirurgisk inflammatoriske respons samt mindre blødning end åben kirurgi. Ph.d. projektet er bedømt af to internationale eksperter, med hvem resultaterne vil blive diskuteret til forsvaret.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 31/03 kl. 14.00 i Auditorium B, Aarhus Universitets Hospital, Skeby, Palle Juul-Jensens Boulevard 99, 8200 Aarhus N. Titlen på projektet er ”Robot-assisted laparoscopic cystectomy versus Open mini-laparotomy cystectomy - Clinical and experimental investigations”. Yderligere oplysninger: Ph.d.-studerende Pernille Skjold Kingo, e-mail: pski@clin.au.dk, tlf.26743182.

Press release (English)

Treatment of bladdercancer with Robot-assisted laparoscopic cystectomy shows promissing results

A new PhD project from Health, Aarhus University, shows that for patients diagnosed with muscle invasive bladder cancer treatment with Robot-assisted laparoscopic cytectomy are in some aspects more beneficial for the patients than open cystectomy .The project was carried out by PhD student and medical doctor Pernille Skjold Kingo, who is defending her dissertation on 31/03/2017. Bladder cancer is the 9th most common cancer in the world. In Denmark an estimated 1.600 new cases of bladder tumours occur every year. At the time of diagnosis approximately 25 % have muscle invasive disease of the bladder. Primary management of invasive bladder cancer is removal of the bladder (cytectomy) which includes a urinary diversion. This can be done either with open technique or by robot-assisted laparoscopic cystectomy. Regardless of the technique used, cystectomy is a major procedure and is associated with a certain extent of operative trauma. Trauma is known to generate a systemic inflammatory stress response. This can cause an imbalance in the immune system, thus

making the patient more susceptible to infections postoperatively. A reduction in trauma through a minimal invasive procedure is believed to have less impact and better preservation on the immune system. In this project it was revealed through both clinical studies and an animal model that robot-assisted laparoscopic cystectomy overall produces the least systemic inflammatory response and causes less bleeding.

The defence is public and takes place on 31/03 at 2.00 p.m. in Auditorium B, Aarhus University Hospital, Skejby, Palle Juul-Jensens Boulevard 99, 8200 Aarhus N. The title of the project is "Robot-assisted laparoscopic cystectomy versus Open mini-laparotomy cystectomy - Clinical and experimental investigations". For more information, please contact PhD student Pernille Skjold Kingo, email: pski@clin.au.dk, Phone +45 26743182.

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