Press release

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Basic information

Name:
Iben Rahbek Andersen Email: iben.rahbek.andersen@rm.dk Phone: 78462507

Department of: Clinical Medicine

Main supervisor: Finn Rasmussen

Title of dissertation: "Functional Imaging in the Treatment Monitoring of Colorectal Liver Metastases"

Date for defence: 19.01.18 at (time of day): 14.00 Place: Søauditorierne - Merete Barker Auditoriet (Bygn. 1253, lok. 211); Bartholins Allé 3; 8000 Aarhus C

Press release (Danish)
"Funktionel billeddannelse i behandlingsmonitoreringen af kolorektale levermetastaser"

Funktionel billeddannelse med dynamisk kontrastforstærket CT (DCE-CT) til behandlingsmonitorering af patienter med tarmkræft og spredning til leveren undersøges i et nyt ph.d.-projekt fra Aarhus Universitet, Health. Projektet er gennemført af Iben Rahbek Andersen, der forsvarer det d. 19/01-2018

Patienter med tarmkræft og spredning til leveren følges tæt under deres behandlingsforløb og monitoreres oftest med rutine CT skanninger. Normalt anvendes en standardiseret evalueringsmetode (RECIST) til at monitorere behandlingseffekten af systemiske kræftbehandlinger. Nyere kræftterapier kan inducere vævsforandringer, som simulerer sygdomsprogression, hvilket medfører problemer med at anvende RECIST til behandlingsmonitoreringen. Der findes aktuelt ingen standardiserede evalueringsmetoder til at vurdere behandlingseffekten efter lokalbehandling af tumorer som ligeledes medfører vævsforandringer, der udfordrer den efterfølgende behandlingsevaluering. Der er således behov for udvikling af nye standardiserede evalueringsmetoder til at vurdere effekten af disse behandlinger objektivt.
Dette PhD projekt har undersøgt funktionel billeddannelse med DCE-CT som en objektiv non-invasiv biomarkør til evalueringen af sådanne behandlingsmetoder. Generelt synes DCE-CT anvendelig og kan bidrage til udviklingen af kvantitative biomarkører til monitoreringen af disse behandlingsforløb.

Forsvaret af PhD-projektet er offentligt og finder sted den 19/01-2018 kl. 14.00 i Søauditorierne - Merete Barker Auditoriet, Aarhus Universitet, Bartholins Allé 3, Aarhus C. Titlen på projektet er ”Functional Imaging in the Treatment Monitoring of Colorectal Liver Metastases”. Yderligere oplysninger: PhD-studerende Iben Rahbek Andersen, e-mail: iben.rahbek.andersen@rm.dk, tlf. 78462507.

Bedømmelsesudvalg:

Lektor Morten Ladekarl, MD, DMSc; Onkologisk Afd, Aarhus Universitetshospital, Danmark.

PD Timm Denecke, MD, DMSc; Institute for Radiology, Charité - Universitätsmedizin Berlin, Tyskland

Lektor Søren Rafaelsen, MD, DMSc; Radiologisk Afd, Sygehus Lillebælt Vejle, Danmark.

Press release (English)
"Functional Imaging in the Treatment Monitoring of Colorectal Liver Metastases"

The potential of functional imaging using dynamic contrast-enhanced computed tomography (DCE-CT) in the treatment monitoring of colorectal liver metastases is investigated in a new PhD project from Aarhus University, Health. The project was carried out by Iben Rahbek Andersen, who is defending her dissertation on January 19th 2018.

Patients with colorectal liver metastases (CRLM) are monitored closely and evaluated using rutine computed tomography during their therapies. RECIST is a standardized evaluation method used in monitoring systemic cancer treatments. RECIST presents challenges in the monitoring of new cancer therapies due to treatment induced changes in the tissue appearance simulation disease progression. No standardized methods apply for evaluating locoregional treatments of CRLM which also induce changes in the tissue appearance challenging the treatment evaluations. New standardized evaluation methods are needed to monitor the treatment effect of these methods objectively.
This PhD project has investigated the potential of functional imaging using DCE-CT as an objective noninvasive biomarker in the monitoring of such treatments. In general DCE-CT seems feasible and may provide quantitative biomarkers in the treatment monitoring of these cancer treatments.

The defence is public and takes place on January 19th 2018 at 2 p.m. in Søauditorierne - Merete Barker Auditorium, Aarhus University, Bartholins Allé 3, Aarhus C. The title of the project is "Functional Imaging in the Treatment Monitoring of Colorectal Liver Metastases". For more information, please contact PhD student Iben Rahbek Andersen, email: iben.rahbek.andersen@rm.dk, Phone +45 78462507.

Assessment committee:

Associate Professor Morten Ladekarl, MD, DMSc; Department of Oncology, Aarhus University Hospital, Denmark.

PD Timm Denecke, MD, DMSc; Institute for Radiology, Charité - Universitätsmedizin Berlin, Germany.

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