

Press release

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Basic information

Name: Kia Busch Email: kia.busch@oncology.au.dk Phone: +4526507743

Department of: Clinical Medicine

Main supervisor: Ludvig P. Muren

Title of dissertation: Development of new planning and image-guidance strategies to minimise organ motion induced dose degradations for locally advanced prostate cancer

Date for defence: 24/3-2021 at (time of day): 14:00 Place: Zoom

Press release (Danish)

Udvikling af nye planlægnings- og billedevejledningsstrategier til at minimere organbevægelse som forårsager dårlig tumordækning for lokalavanceret prostatakraft

Prostatakraft er den mest hyppige kræfttype blandt mænd og omkring halvdelen af alle danske prostatakraftpatienter har lokalavanceret kræft, hvor også lymfeknuder og vesikler skal behandles. En af de mest almindelige behandlingsformer er ekstern fotonbaseret stråleterapi, men det er også muligt at anvende protonterapi, hvilket vil reducere dosen til det raske væv og kan dermed forbedre livskvaliteten hos patienterne. En udfordring ved protonterapi er den øget sensitivitet overfor organbevægelse. Denne afhandling har derfor fokuseret på at udvikle nye planlægnings- og billedvejledningsstrategier til at minimere effekten af organbevægelse for lokalavanceret prostatakraft.

Projektet er gennemført af Kia Busch, der forsvare det d. 24/03-2021

Forsvaret af ph.d.-projektet er offentligt og finder sted den 24/03-2021 kl. 14:00. Grundet COVID-19 vil forsvaret blive gennemført som et web forsvar via Zoom. For at deltage i forsvaret skal du sende en mail til kia.busch@oncology.au.dk for at modtage en invitation med et link til Zoom.

Titlen på projektet er 'Development of new planning and image-guidance strategies to minimise organ motion induced dose degradations for locally advanced prostate cancer'. Yderligere oplysninger: Ph.d.-studerende Kia Busch, e-mail: kia.busch@oncology.au.dk, tlf. +4526507743

Bedømmelsesudvalg:

Christian Richter, Professor, PhD
Technical University Dresden
Germany

Francesca Albertini, PhD
Paul Scherrer Institute
Switzerland

Brita Singers Sørensen, Professor, PhD
Danish Center for Particle Therapy
Denmark
(Chair of the Committee)

Press release (English)

Development of new planning and image-guidance strategies to minimise organ motion induced dose degradations for locally advanced prostate cancer

Prostate cancer is the most common cancer among men and around half of all Danish prostate cancer patients have locally advanced disease where irradiation of lymph nodes and seminal vesicles is indicated. One of the most commonly used treatment modalities for this disease is external beam radiotherapy, but it is also possible to use proton therapy, which will reduce the dose to the healthy tissue and can therefore increase the quality of life for the patients. A challenge using proton therapy is the increased sensitivity towards organ motion. This dissertation has therefore focused on developing new planning and image-guidance strategies to minimise the effect of organ motion for locally advanced prostate cancer.

The project was carried out by Kia Busch, who is defending her dissertation on March 24th, 2021

The defence is public and takes place on the 24/03-2020 at 14:00. Due to COVID-19, the defence will be held online via Zoom. Please contact the PhD student Kia Busch (kia.busch@oncology.au.dk) to receive a link to participate in the defence online.

The title of the project is 'Development of new planning and image-guidance strategies to minimise organ motion induced dose degradations for locally advanced prostate cancer'. For more information, please contact PhD student Kia Busch, e-mail: kia.busch@oncology.au.dk, Phone: +4526507743.

Assessment committee:

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