

Press release

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Basic information

Name: Stine Overvad Fredslund

Email: stin.fred@auh.rm.dk

Phone: 28713076

Department of: Clinical Medicine

Main supervisor: Professor Anders Bonde Jensen

Title of dissertation: Cardiovascular and metabolic morbidity following breast cancer treatment

Date for defence: 15/11/2019 at (time of day): 14.30 Place: Skejby Sygehus, Auditorium C114-101, Indgang C, Palle Juul-Jensens Boulevard 99, 8200 Aarhus N

Press release (Danish)

Hjertekar- og livsstilssygdomme efter brystkræftbehandling

Med dette ph.d.-projekt viser vi, at kvinder behandlet for brystkræft er i øget risiko for at udvikle hjertekar- og livsstilssygdomme.

På baggrund af data fra samtlige danske brystkræftpatienter diagnosticeret mellem 1990 og 2017, har vi fundet en markant øget sygelighed blandt brystkræftoverlevende både under og efter kræftbehandlingen sammenlignet med den kvindelige baggrundsbefolkning. Den øgede sygelighed er særlig udtalt hos de yngste brystkræftoverlevende og ses for samtlige undergrupper af sygdomme og medicinske præparater, særligt dem relateret til hjertekar- og livsstilssygdomme.

I tillæg til ovenstående, har vi kortlagt bivirkninger til brystkræftbehandling ved at undersøge 33 danske brystkræftpatienter før, under og efter deres behandling.

Vi finder væsentlige ændringer i de parametre, som er relateret til udviklingen af hjertekar- og livsstilssygdomme, herunder forhøjet kolesterol, fedme, sukkersyge og forhøjet blodtryk. Fundene er særligt udtalte hos de yngste patienter. I kvindernes blodkar finder vi også væsentlige ændringer, som vi ved forringer karfunktionen, og som sammen med de øvrige fund kan være direkte årsag til senere udvikling af hjertekarsygdomme.

Brystkræft er langt den hyppigste kræftform hos kvinder med knap 5000 nye tilfælde om året i Danmark. I dag overlever næsten 90%, takket være effektiv screening og tidlig diagnosticering samt forbedret kirurgisk og medicinsk kræftbehandling. De ekstra leveår som vindes i kraft af den forbedrede prognose risikerer dog at gå tabt, hvis brystkræftoverlevende som følge af deres behandling udvikler andre alvorlige sygdomme, som afkorter deres levetid.

Det viser et nyt ph.d.-projekt fra Aarhus Universitet, Health. Projektet er gennemført af Stine Overvad Fredslund, der forsvare det d. 15/11-2019.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 15/11 kl. 14.30 i auditorium C114-101, Indgang C, Aarhus Universitets hospital, Skejby, Palle Juul-Jensens Boulevard 99, 8200 Aarhus N.

Titlen på projektet er "Cardiovascular and metabolic morbidity following breast cancer treatment". Yderligere oplysninger: Ph.d.-studerende Stine Overvad Fredslund, e-mail: stin.fred@auh.rm.dk, tlf. 28713076.

Bedømmelsesudvalg:

Formand:

Peer Christiansen, Professor, Overlæge, Dr.med.

Institut for Klinisk Medicin - Plastik- og Brystkirurgi
Aarhus Universitet

Isabel Gonçalves, Professor, Senior Consultant in cardiology, PhD, FESC
Skåne University Hospital, Clinical Sciences Malmö, Lund University,
Sweden

Lene Mellemkjær, Seniorforsker, Gruppeleder, Ph.d.,
Center for Kræftforskning, Kræftens Bekæmpelse
København påføjer de tre medlemmer af udvalget med navn, titel og arbejdssted

Press release (English)
Cardiovascular and lifestyle diseases after breast cancer treatment

With this PhD project, we show that women treated for breast cancer are at increased risk of developing cardiovascular and lifestyle diseases.

Based on data from all Danish breast cancer patients diagnosed between 1990 and 2017, we have found a significant increase in morbidity among breast cancer survivors both during and after cancer treatment compared to the female background population. The increased morbidity is particularly pronounced among the youngest breast cancer survivors and it is evident in all subgroups of diseases and medications, especially those related to cardiovascular and lifestyle diseases.

In addition, we have studied side effects related to breast cancer treatment by examining 33 Danish breast cancer patients before, during and after their treatment. We find significant changes in parameters related to cardiovascular and lifestyle diseases, including high cholesterol, obesity, diabetes and hypertension. The findings are particularly pronounced in the youngest patients. We also find significant changes in the blood vessels of these women. Changes that are known to impair the function of the vessels. In combination, the findings mentioned can be a direct cause for later development of cardiovascular disease.

Breast cancer is by far the most common cancer in women, with almost 5000 new cases per year in Denmark. Today, almost 90% survive thanks to effective screening and early diagnosis, as well as improved surgical and medical cancer treatment. However, the extra years of life gained through the improved prognosis may be lost, if breast cancer survivors because of their treatment develop other serious illnesses shortening their lifespan.

The project was carried out by Stine Overvad Fredslund, who is defending her dissertation on November 15th 2019.

The defence is public and takes place on November 15th 2019 at 14.30 in Auditorium C114-101, Entrance C, Aarhus University Hospital, Skejby, Palle Juul-Jensens Boulevard 99, 8200 Aarhus N. The title of the project is "Cardiovascular and metabolic morbidity following breast cancer treatment". For more information, please contact PhD student Stine Overvad Fredslund, email: stin.fred@auh.rm.dk, Phone +45 28713076.

Assessment committee:

Chairman:
Peer Christiansen, Professor, consultant, Dr. med
Department of breast and plastic surgery.
Aarhus University Hospital

Isabel Gonçalves, Professor/Senior Consultant Cardiology, PhD, FESC
Cardiovascular Research - Translational Studies, Skåne University Hospital
Faculty of Medicine, Department of Clinical Sciences, Malmö
Lund University, Sweden

Lene Mellemkjær, Senior Scientist, Group Leader, PhD
The Danish Cancer Society Research Center
Copenhagen, Denmarkname, title and place of employment of the three members of the committee

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