

Press release

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Basic information

Name: Sashia Bak-Nielsen Email: sashia.bak@clin.au.dk Phone:

Department of: Clinical Medicine

Main supervisor: Professor Jesper Hjortdal

Title of dissertation: Keratoconus - epidemiology and changes in biomarkers

Date for defence: 19. june 2020 at (time of day): 14.00 Place: Streamed through Rooms

Press release (Danish)

Keratoconus - epidemiologi og ændringer i biomarkører

Synet er en af vores vigtigste sanser. Øjets evne til at danne billeder og hjernens evne til at forstå disse billeder er intet mindre end fantastisk. De forskellige dele af det optiske system skal være i perfekt balance for at der skabes et klart billede på nethinden. Hos patienter med keratoconus er der ubalance i det optiske system. Hornhindens krumning er for stejl, den centrale hornhinde er for tynd og over tid medfører arvæv uklarheder i hornhinden.

Dette PhD projekt indholder flere forskellige tilgange til at opnå ny viden om hornhindesygdommen keratoconus. De nationale danske registre bruges til at studere den samlede danske population af keratoconus patienter. I de kliniske studie undersøges en mulig biomarkør for keratoconus i tårevæske, spyt og plasma. Desuden oversættes og testes et spørgeskema til reportering af synsmæssig livskvalitet hos keratoconus patienter.

Projektet er gennemført af Sashia Bak-Nielsen, der forsvare det d. 19/06-2020. P.g.a situationen med corona-virus vil det være muligt at streame forsvaret gennem Rooms. Kontakt venligst Sashia Bak-Nielsen seneste torsdag d. 18/6 kl 12.00 for at få adgang til streamingen.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 19/06-2020 kl. 14.00 og vil kunne streames via Rooms. Titlen på projektet er "Keratoconus - epidemiology and changes in biomarkers". Yderligere oplysninger: Ph.d.-studerende Sashia Bak-Nielsen, e-mail: sashia.bak@clin.au.dk.

Bedømmelsesudvalg:

Professor Anders Behndig, dr.med.

Klinisk Institut, Øjenafdelingen, Umeå Universitet, Umeå, Sverige

Professor Morten Dornonville de la Cour, dr.med.

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Associate Professor Christina Cathrine Dahm, PhD (Formand for bedømmelsesudvalget)

Institut for folkesundhed, Afdelingen for epidemiologi, Aarhus Universitet, Aarhus, Danmark

Press release (English)

Keratoconus - epidemiology and changes in biomarkers

Vision is one of our key senses. The eye's ability to create images and the brain's ability to make sense of these images is little beyond amazing. The different parts of the optic system have to be in perfect balance to create a clear image on the retina. In eyes with keratoconus, there is imbalance in the optic

system. The curvature of the cornea is too steep, the central cornea too thin and with time central scarring creates opacities.

This PhD project entailed several different approaches to gaining new knowledge about the corneal disease keratoconus. The national Danish registries are utilized to study keratoconus on a national population level. In the clinical studies a possible biomarker for keratoconus is studied in tear fluid, saliva and plasma and a questionnaire to report two domains of vision-related quality of life is translated and tested in a group of Danish patients with keratoconus.

The project was carried out by Sashia Bak-Nielsen, who is defending her dissertation on 19/06/2020. Due to the situation with corona virus it will be possible to stream the defence through Rooms. Please contact Sashia Bak-Nielsen no later than Thursday 18/06 at 12 PM to gain access to the streaming.

The defence is public and takes place on 19/06-2020 at 2 PM and will be streamed through Rooms. The title of the project is "Keratoconus - epidemiology and changes in biomarkers" For more information, please contact PhD student Sashia Bak-Nielsen, email: sashia.bak@clin.au.dk

Assessment committee:

Professor Anders Behndig, dr.med.
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