

Press release

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Basic information

Name: Anders Gyldenkerne Email: ag@dadlnet.dk Phone: +45 26342250

Department of: Clinical Medicine

Main supervisor: Professor Jesper Hjortdal

Title of dissertation: The quality of vision following small-incision lenticule extraction for myopia

Date for defence: 15/1/2020 at (time of day): 14:00 Place: Aud. J116-113, Aarhus University Hospital & Online (for online participation, please send email to ag@clin.au.dk for further details).

Press release (Danish)

Synskvaliteten efter small-incision lenticule extraction for nærsynethed

Et nyt ph.d.-projekt fra Aarhus Universitet, Health har undersøgt synskvaliteten for nærsynede efter de er blevet behandlet med den kirurgiske metode small-incision lenticule extraction (SMILE). Projektet er gennemført af Anders Gyldenkerne, der forsvare det d. 15/1 2021.

Den kirurgiske metode SMILE er velkendt for dens effektivitet til at korrigere svært nærsynethed (dvs. en brillestyrke på minus 6 dioptrier eller sværere). Der er dog kendte mulige synsgener, såsom blænding, efter operationen, og man kender ikke konsekvensen af den kirurgiske behandling for bl.a. dybdesynet og den objektivt bestemte optiske kvalitet. Projektet undersøger hvorledes mulige synsgener for patienter med svær nærsynethed der er opereret med SMILE hænger sammen med objektive parametre vedr. synsfunktionen. Projektet undersøger også hvorledes dybdesynet for patienter med svær nærsynethed ændrer sig efter SMILE-behandling. Endelig udforskes også konsekvensen af SMILE for svær nærsynethed ift. den objektivt bestemte optiske kvalitet, og sidstnævnte sammenholdes med den optiske kvalitet målt for tilsvarende nærsynede kontroller.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 15/1 2021 kl. 14:00 i Auditorium J116-113, Aarhus Universitetshospital, Palle Juul-Jensens Boulevard 167, Aarhus N samt online. Titlen på projektet er "The quality of vision following small-incision lenticule extraction for myopia". Yderligere oplysninger (inkl. info om online tilgængelighed): Ph.d.-studerende Anders Gyldenkerne, e-mail: ag@clin.au.dk, tlf. +45 26342250.

Bedømmelsesudvalg:

Susana Marcos

Professor, Institute of Optics, Spanish National Research Council, Madrid, Spain

Jens Bühren

Professor, Praxis für Augenheilkunde, Frankfurt am Main, Germany

Toke Bek (formand for bedømmelsesudvalget)

Professor and Academic Chair, Department of Clinical Medicine - Department of Ophthalmology, Aarhus University & Aarhus University Hospital, Denmark

Jesper Hjortdal (hovedvejleder og medlem af bedømmelsesudvalget uden stemmerettighed)

Professor, Department of Clinical Medicine - Department of Ophthalmology, Aarhus University & Aarhus University Hospital, Denmark

Press release (English)

The quality of vision following small-incision lenticule extraction for myopia

A new PhD project from Aarhus University, Health has investigated the quality of vision for nearsighted patients after they have been treated with the surgical method known as small-incision lenticule extraction (SMILE). The project was carried out by Anders Gyldenkerne, who is defending the dissertation on January 15th, 2021.

The surgical method SMILE is well-known for its efficacy at correcting high myopia (i.e. a refractive correction of minus 6 diopters or more severe). However, there are known visual side-effects, such as glare, after the procedure, and the consequence of the treatment for, among other things, the stereopsis and objective visual image quality is unknown. The project examines how visual symptoms for patients with high myopia operated with SMILE are related to objective parameters concerning the visual function. The project also examines how the stereopsis for patients with high myopia is affected after treatment with SMILE. Finally, the consequence of SMILE for high myopia to the objective visual image quality is examined, and the latter is compared to the objective visual image quality measured for comparably myopic controls.

The defense of the PhD dissertation is public and takes place January 15th 2021 at 1400, Auditorium J116-113, Aarhus University Hospital, Palle Juul-Jensens Boulevard 167, Aarhus N and will be transmitted online. The title of the project is "The quality of vision following small-incision lenticule extraction for myopia". For further information (including information regarding online transmission), please contact: PhD student Anders Gyldenkerne, e-mail: ag@clin.au.dk, telephone +45 26342250.

Assessment committee:

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Toke Bek (chairman of the committee)

Professor and Academic Chair, Department of Clinical Medicine - Department of Ophthalmology, Aarhus University & Aarhus University Hospital, Denmark

Jesper Hjortdal (principal supervisor and member of the committee without voting rights)

Professor, Department of Clinical Medicine - Department of Ophthalmology, Aarhus University & Aarhus University Hospital, Denmark

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