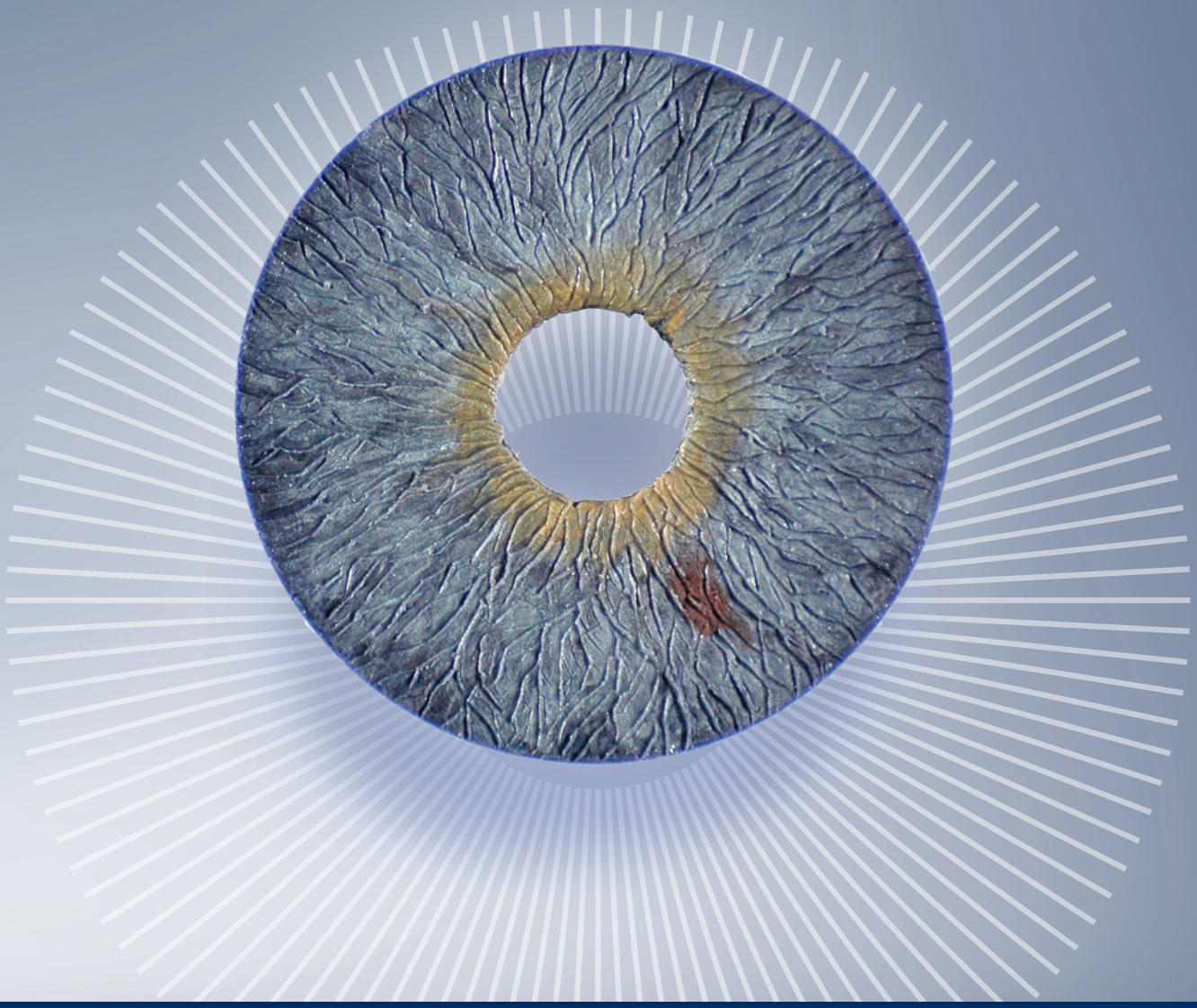
HUMANOPTICS
DR. SCHMIDT HIGH DEFINITION IMPLANTS

ARTIFICIAL*IRIS*

FOR TREATMENT OF COMPLETE OR PARTIAL ANIRIDIA



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HD
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FOR TREATMENT OF COMPLETE OR PARTIAL ANIRIDIA

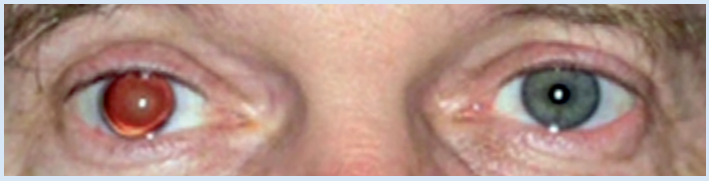
CUSTOM-MADE FOR EACH PATIENT

ANIRIDIA

Complete or partial aniridia usually leads to varying degrees of visual symptoms and ocular problems. Many individuals with aniridia may feel further affected by the nonaesthetic aspect of their eyes. Thus, management of aniridia is a challenge, and often an iris reconstruction using prosthetic devices is required. HumanOptics (Dr. Schmidt Intraocularlinsen), in collaboration with Professor H.-R. Koch (Bonn, Germany), developed the Artificial*Iris* to treat aniridia successfully.

WHY THE ARTIFICIAL*IRIS*?

The Artificial*Iris* is the only foldable iris prosthesis that offers a means of treating both the clinical and aesthetic problems of aniridia, allowing patients to get back to normal daily activities quickly.



Patient with complete aniridia in the right eye*

Same patient after implantation of the customized Artificial*Iris**

BENEFITS

Biocompatibility	▪ Long and safe track history of highly biocompatible medical-grade silicone**
Foldability	▪ Flexible material that can be folded and inserted through small incisions
Versatility	▪ Intended for placement in the ciliary sulcus or in the capsular bag ▪ Can be easily sized and shaped to fit a specific iris defect ▪ Combinable with most intraocular lenses
Regulated light transmission	▪ Reduces photic phenomena, enhances contrast sensitivity and eliminates transillumination defects with: - a fixed aperture of 3.35 mm - an opaque black posterior surface to absorb light completely
Cosmetic rehabilitation	▪ Individually customized implant to mimic patient's original iris appearance

* Pictures are courtesy of Kevin M. Miller, MD, Jules Stein Institute, University of California, Los Angeles, USA

** Silicone material identical to the silicone used in HumanOptics IOLs, with over 15 years of successful clinical use

APPLICATION

- Diameter of the implant: 12.8 mm
- Pupil size: 3.35 mm
- For further information, please visit www.artificial-iris.com or contact customerservice@humanoptics.com

TWO MODELS ARE AVAILABLE

ARTIFICIAL*IRIS*
with Fiber

For cases where suturing **is** indicated

ARTIFICIAL*IRIS*
Fiber Free

For cases where suturing **is not** indicated

The implant can be individually sized and shaped

PLEASE NOTE:

The Artificial*Iris* is intended for placement in the posterior chamber, not in the anterior chamber. Please also note that the procedure in phakic eyes must be combined with the natural lens removal followed by IOL implantation, even if no cataract is apparent. The Artificial*Iris* is not intended for cosmetic color change.

HumanOptics sponsors Aniridia Europe – a federation of aniridia associations across Europe

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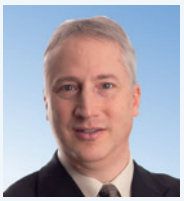
REFERENCES

HANS-REINHARD KOCH, MD — HOCHKREUZKLINIK, BONN, GERMANY

"Until recently, aniridia, congenital or acquired, was an untreatable disease. The development of an artificial iris implant has completely changed the situation. With the new device it is now possible to offer an aesthetically perfect and functionally satisfactory solution for all patients with aniridia or major iris defects. The possibility to do this through a 3 mm incision is an additional benefit." [1]

MICHAEL E. SNYDER, MD — CINCINNATI EYE INSTITUTE, CINCINNATI, USA



"A patient … suffered severe, disfiguring damage to her eye in a car accident as a young child. Now in her 20s, the young woman recently underwent implantation of a HumanOptics artificial iris. She called to tell me that receiving the artificial iris was one of the best things that had ever happened to her …. She still calls or sends a note periodically just to remind me and my team of her happy result." [2]

STEPHAN KAMINSKI, MD — MEDICAL UNIVERSITY OF VIENNA, VIENNA, AUSTRIA

"Until now, iris reconstruction was a challenging surgical procedure requiring large sclerocorneal incisions and often resulting in poor cosmetic outcomes. With the Artificial*Iris*, small self-sealing incisions are possible, enabling fast visual recovery and excellent cosmetic outcomes. The device may be used for complete or partial iris reconstruction." [3]

KEVIN M. MILLER, MD — UNIVERSITY OF CALIFORNIA, LOS ANGELES, USA

"The [Artificial*Iris*] … currently represents the best approach for eyes with cataract, intact zonules, and partial or complete aniridia.… This prosthesis can be placed inside the capsular bag in front of an IOL or in the ciliary sulcus. When implanted in the sulcus, the device does an excellent job of blocking out all light peripheral to the iris." [4]

[1] Personal statement, 2014.

[2] Doran M, contributing writer interviewing Miller K, Rosenthal K, Sikder S, Snyder M. Anterior segment iris implants advance – but face continuing challenges. American Academy of Ophthalmology, EyeNet, 2013; Issue February: 29–31.

[3] Kaminski S. Iatrogenic coloboma, aniridia, and aphakia. J Cataract Refract Surg Today Europe 2012; Issue July/August: 52–54.

[4] Miller K et al. Cataract and lost iris tissue after trauma. J Cataract Refract Surg Today 2012; Issue January: 42–46.

ARTIFICIAL*IRIS* – STEP BY STEP

Individual production of a customized Artificial*Iris* takes approximately four to eight weeks upon receipt of your order. To avoid any delays in placing your order, please follow the instructions given below.

ONLINE CERTIFICATION COURSE (OCC)

HumanOptics has developed an online certification course in collaboration with an international group of iris experts. The course provides comprehensive knowledge of the Artificial*Iris* use and meets the new training standards. Each participant receives a certificate number which is required to proceed with the order.

PHOTO PRINTOUT

The color composition of the Artificial*Iris* is a custom design based on a photo printout. Since we rely on the photo printouts we receive, utmost care should be taken to ensure the best quality pictures. A guide for creating high-quality photos and printouts can be found at **www.artificial-iris.com.**

ORDER FORM

The order form needs to be filled out completely to avoid delays in placing orders. You can download the forms from **www.artificial-iris.com**. Signed photo printouts and order forms should be sent via mail to HumanOptics AG, Spardorfer Str. 150, 91054 Erlangen, Germany.

The Artificial*Iris* (CustomFlex) is currently subject to a US FDA clinical trial

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