



## Media release

### **Vivior developed AI supported software to analyze patient activities and match patient data with specifications of intraocular lenses**

**Zurich, 5 July 2019 – Vivior has developed software that allows to recognize the activities of patients and match individual visual behavior data with the available intraocular lenses. The software uses state-of-the-art Artificial Intelligence to recognize activities and optimize lens selection for the ophthalmic surgeon.**

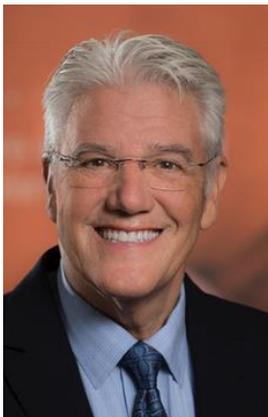
As the first company Vivior can optimize the lens selection process in ophthalmic surgery based on objective data. The data gathered by patients with Vivior's Visual Behavior Monitor is used to create an individual visual profile which is matched with the currently available intraocular lenses (IOL) used in cataract and refractive surgery. Vivior's software uses neural networks to recognize the activities of each patient based on the measurements of the Visual Behavior Monitor.

Vivior is launching their Visual Behavior Monitor this year and will include the software in the latest release.

Prof. Jim Schwiegerling, University of Arizona, member of the Scientific Advisory Board of Vivior explains: "With this software, Vivior can optimize the selection process of IOLs and support the surgeon to achieve optimal outcomes for the patient."

Robert J. Stevens, MSc, chairman of the Scientific Advisory Board of Vivior and former Vice President Surgical R&D at Alcon adds: "Finally, the selection process is based on objective data and state-of-the-art algorithms, which facilitates a successful surgery outcome."

The Vivior Scientific Advisory Board has the following members:



Robert J. Stevens, MSc, is currently Chief Technology Officer at CorneaGen Surgical. As former Vice President Surgical R&D at Alcon he introduced several industry-leading innovations, including a proprietary intraocular lens material, AcrySof, along with proprietary intraocular lens designs, Viscoelastics and surgical instruments for both anterior and posterior segment surgery.



Prof. Jim Schwiegerling, PhD, is a Professor at the College of Optical Sciences, University of Arizona. His research includes visual system modeling with raytracing software, corneal topographic analysis for disease detection and visual performance assessment following surgery, optimization of refractive surgery techniques and development of ophthalmic instruments.



Ian Flitcroft, MA, D.Phil, FRCOphth, is an eye surgeon at Temple St Children's Hospital, Dublin, associate clinical professor of Ophthalmology at University College Dublin, and adjunct professor vision science at the Technological University of Dublin. He has been involved in the field of experimental myopia for almost 20 years and has been long term advocate for the public health implications of myopia and for the need for active myopia control. He is a lead investigator on several myopia treatment trials.



Dwight Akerman, OD, MBA, is an internationally recognized healthcare executive with extensive experience in business strategy, myopia management, innovation, medical affairs, financial management, M&A / business development & licensing, medical marketing, and professional education & communication. Dr. Akerman currently serves as President of Global Visionary Consultants, LLC and Chief Medical Editor at Review of Myopia Management.

#### **About Vivior:**

Vivior is a Swiss digital health start-up founded in 2017 by a group of experienced eye care professionals. The company develops a novel wearable device to objectively measure patient's behavioral data prior to vision correction interventions. The system collects daily activity data from patients, processes these data in the cloud and analyses patient's lifestyle patterns using machine-learning algorithms. This ground-breaking combination allows to better understand patients' needs and enables eye care professionals to offer optimal personalized solutions to their patients.

[www.vivior.com](http://www.vivior.com)

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