

## iSTAR Medical's MINject delivers exceptional 6-month results in first-in-human trial

**WAVRE, Belgium — 16 May 2018:** iSTAR Medical SA, a private medical device company developing novel ophthalmic implants for the treatment of glaucoma, today announced exceptional six-month results of their first-in-human (FIH) micro-invasive glaucoma surgery (MIGS) trial for the MINject™ device in a standalone setting. Results show MINject to be safe and highly effective in achieving significant intraocular pressure (IOP) reduction in glaucoma patients.

The trial showed that the implantation of MINject resulted in an average 39% IOP reduction to a mean of 14.2 mmHg at six months. In addition, 87.5% of patients were able to discontinue topical medication usage and remained medication-free at six months. There were no serious ocular adverse events.

The FIH trial is a prospective, open, international, multi-centre study in which a MINject was implanted in 25 patients with mild-to-moderate, primary open angle glaucoma uncontrolled by topical hypotensive medication. The aim of the study is to assess the safety and performance of the MINject device measured by IOP reduction under medication from baseline to six months. Subsequent safety and performance will be measured up to two years post-surgery. The investigators and performing surgeons include Dr Ike Ahmed (Toronto, Canada), Dr Ernesto Calvo (Panama City, Panama), Prof. Philippe Denis (Lyon, France), Prof. Christoph Hirneiss (Munich, Germany) and Dr Anita Kamarthy (Hyderabad, India). Adverse events were assessed by an independent Safety Monitoring Committee (SMC).

iSTAR Medical's MINject device provides a safe, effective and sustainable solution to significantly reduce IOP by enhancing aqueous humour outflow from the anterior chamber to the supraciliary space. MINject takes a new approach to drainage which represents a paradigm shift. Unlike other technologies, MINject uses STAR material, a soft and flexible, medical-grade silicone with a micro-porous, multi-channel geometry. The proprietary STAR material has anti-fibrotic properties, which minimise scarring and maintain implant performance over time.

**Prof. Philippe Denis, Croix-Rousse Hospital, Lyon, France,** was involved in the development of MINject. He said: *"We are very pleased with the safety results for this supraciliary procedure. There were no implant migrations. MINject has been well-designed and the low number of adverse events is encouraging."*

**Dr Ike Ahmed, University of Toronto, Ontario, Canada,** performed some of the first MINject procedures in the trial. He commented: *"These early results show a combination of exceptional efficacy, safety for patients, and device ease-of-use, which is very promising."*

Glaucoma is the second leading cause of blindness globally according to the World Health Organisation, affecting over 80 million people. About 2.5 million people worldwide are blind due to glaucoma. MIGS is the most promising and fastest-growing therapeutic option in the treatment of glaucoma.

ClinicalTrials.gov identifier: NCT03193736

### **iSTAR Medical**

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### **About iSTAR Medical SA**

iSTAR Medical SA, headquartered in Wavre, Belgium, is a private, clinical-stage, medical technology company focused on the development of novel ophthalmic implants for glaucoma.

Glaucoma is the second leading cause of adult blindness globally. Micro-invasive glaucoma surgery (MIGS) is the most promising and fastest-growing therapeutic option in the treatment of glaucoma. iSTAR has exclusive rights to the STAR biomaterial from the University of Washington in Seattle (USA) for ophthalmic use. This provides the foundation for the development of MINject, which is designed to be a best-in-class MIGS device. The fast-growing glaucoma drainage device market is expected to reach \$1bn worldwide by 2020.

iSTAR Medical's management team and board have a successful track record in end-to-end product development, with proven clinical, regulatory and market access capabilities. The company is backed by specialised institutional and private investors. For more information, please go to [www.istarmed.com](http://www.istarmed.com)

### **About MINject**

Based on the innovative, proprietary STAR® material, iSTAR Medical has developed MINject™, a MIGS device which is implanted into the supraciliary space. MINject is designed to deliver enhanced ease-of-use and to improve long-term outcomes compared with other MIGS solutions. The STAR material enhances bio-integration, fluid drainage and conformability to patient anatomy with substantial clinical benefits and an improved patient experience. MINject has been partially funded by the Walloon Region, Belgium.

### **Sources**

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