

Focused, Adaptable, Proven



- 1 UCP can be used for a broad spectrum of patients, from naïve-of-surgery patients under maximal hypotensive medication to moderate and advanced glaucoma cases.^{1,2}
- 2 UCP can be used for **open angle** as well as **angle closure** glaucoma, and for **primary and secondary glaucoma**.³
- **3** Multiple UCP treatments are possible, if needed, with no added risk of complications.⁴
- **UCP Flex** now allows you to **titrate the dose** of therapeutic ultrasound according to patient's needs.³

EYE TECH CARE

aims at transforming glaucoma care with high intensity focused ultrasound (HIFU).

This technology is already widely used in other medical specialities, including treatment of certain cancerous tissues. The company believes that UCP can offer far-reaching benefits to clinicians and patients.



Technology

UCP is a **non-invasive technique** that utilizes high-intensity focused ultrasound to provide **targeted, controlled and gentle thermal coagulation of the ciliary body via specialized, miniaturized transducers.**



Miniaturized transducers delivering HIFU

Adaptable dose

6-Sector protocol.

Treating on average **40%** of the circumference of the ciliary body

8-Sector protocol.

Treating on average **55%** of the circumference of the ciliary body





	IOP≥21mmHg	
	IOP<30mmHg	IOP≥30mmHg
6-Sector protocol ³	√	
8-Sector protocol ³		1

Mechanisms of action

UCP allows the decrease of aqueous humour production by coagulation of the ciliary body.

- 1 A controlled rise in temperature minimizes the risk of overheating the tissue (no explosion).
- **2** Pinpoint precision allows the preservation of surrounding tissues.
- **3** Allows precise control of energy deposition as ultrasound absorption does not depend on pigmentation.





UNTREATED

Secretion of aqueous humor via epithelial cells in the ciliary body⁵

TREATED Epithelial cells removed but blood-aqueous barrier preserved⁵

Clinical results

UCP has been used worldwide to treat more than



Efficacy Average IOP reduction

at 12 months⁷⁻¹⁰

Success rate* of **65-75%** at 12 months⁷⁻¹⁰



*success is defined as IOP reduction >20% and final IOP >5 mmHg without supplemental hypotensive medications

Multiple treatments

A clinical study has shown the overall procedure efficacy to improve after multiple UCP treatments.⁴

Population

- 40 patients
- 42% with previous filtering surgery
- 35% of POAG65% non POAG
- 7.5% angle closure
- 20% exfoliative
- 30% neovascular
- 7.5% other



Safety NO phthisis bulbi, induced cataract, or persistent hypotony were recorded in the published clinical studies.¹¹ Low rate of vision-threatening complications (<2%), generally transient.¹¹

No major change in BCVA (>1line) in 86% of surgery-naïve patients treated by UCP at 12 months.¹¹

References

- Denis P, Clinical Research of Ultrasound Ciliary Plasty and Implications for Clinical Practice, *European Ophthalmic Review*, 2016;10(2):108–12
- Denis P, Aptel F, Rouland JF, Renard JP, Bron A, Multicenter clinical trial of high-intensity focused ultrasound treatment in glaucoma patients without previous filtering surgery; *Acta Ophthalmol.*, 2016; 94(5):268-77
- 3. Indications/User manual
- 4. De Gregorio A et al., Safety and efficacy of multiple cyclocoagulation of ciliary bodies by high-intensity focused ultrasound in patients with glaucoma, *Graefes Arch Clin Exp Ophthalmol*,2017
- Aptel F et al., Short- and long-term effects on the ciliary body and the aqueous outflow pathways of high-intensity focused ultrasound cyclocoagulation, Ultrasound Med Biol., 2014; 40(9):2096-106
- 6. Internal database updated Sep 18
- 7. Sousa D et al., High-intensity focused ultrasound cyclo-coagulation, AAO 2017
- 8. Nardi M et al., Ultrasound Cyclo Plasty for treatment of surgery naïve Open Angle Glaucoma patients, EGS 2018
- Deb N et al., Application of high intensity focused ultrasound for treatment of open-angle glaucoma in Indian patients, Indian Journal of Ophthalmology, 2018
- 10. Giannacare G, Traverso C et al., Ultrasound Cyclo Plasty in Patients with Glaucoma: 1-Year Results from a Multicentre Prospective Study, *Ophthalmic Research Journal 2018*
- Nardi M et al., What's New With Focused Ultrasound Glaucoma Therapy - Efficacy and Safety in Surgery-naive Patients and of Multiple Ultrasound Treatments, *European Ophthalmic Review* 2018 (epub ahead of print)



EYE TECH CARE 2871 avenue de l'Europe, 69140 Rillieux-La-Pape FRANCE www.eyetechcare.com

The information contained in this document is intended for healthcare professionals only

BR0_MKT_011_EN/09 2018