

ECP transcends prior technical limitations and offers a bright, new solution for the treatment of glaucoma.



The compact E2 system contains a video camera, xenon light source, and a semi-conductor diode laser tuned to 810nm wavelength. This power console features adjustable laser output, pulse width, light and aiming beam intensity.

Empowerment



Endoscopic CycloPhotocoagulation (ECP) is a surgical approach to glaucoma management that employs light, endoscopy and visualized laser application. High-res video imaging is delivered through a 20Ga microendoscope. The result is the selective ablation of pigmented, ciliary epithelium tissue, with minimal impact to surrounding, nontargeted anatomy.

Remarkably, all forms of glaucoma can be effectively treated with this technology. With continuous, direct imaging of the ciliary processes, controlled laser energy is delivered; IOP is lowered and aqueous production is controlled with superior long-term

The comprehensive armamentarium of endoscopes, span the need from simple illumination, to laserimaging fibers - for anterior ECP applications as well as posterior PRP delivery.

This powerful technology has been embraced by ophthalmologists across specialities.

Cataract

Glaucoma

Retina

Pediatric



High-resolution allows clear imaging of tissues from the anterior or posterior segment.





"ECP's greatest worth is its thereby improve compliance."

..you can use the endoscope and treat it ."

process, as they are treated, is

Pediatric Ophthalmologist

"ECP employs a triple function micro endoscope to provide heretofore impossible



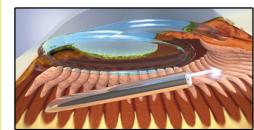
The E4 Endoscopy Sysytem can be integrated with an external laser for triplefunction capability.



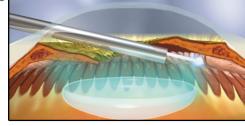
Control & Versatility

In a combined phacoemulsification/ECP procedure, an existing clear corneal or limbal incision is sufficient to accomodate the 20Ga endoprobe. In a standalone ECP case, the ciliary processes may be approached from a limbal or pars plana incision. From a single entry, anatomy is clearly identified, and from 180° to 200° of ciliary processes can effectively be reached; a secondary incision will accomodate a full 270° to 360° treatment.

Direct, continuously-monitored visualization, with aiming beam precision, produces repeatable, titratable shrinkage of targeted tissues. Most impressive beyond the incremental benefits of the ECP procedure, endoscopy allows for the accurate assessment of: zonular dehescence, capsular bag integrity, residual cortical material, intended haptic placement, and anterior hemhorrhage. Clearly, this capability should only enhance clinical outcomes.



Pars plana approach may be employed, combined with vitreous surgery, for Pseudophakic or aphakic

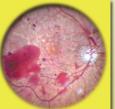


Clear corneal entry, throught the existing phaco wound, allows treatment of Phakic, Pseudophakic or Aphakic eyes. Laser delivery occurs either over or through the capsular bag.



"Combined with phaco, ECP takes an extra two minutes. The endoscope is also a great teaching tool... providing a virtual tour of the Alan B Aker, MD

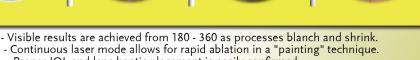
Cataract Surgeon



"Unlike transscleral cyclodestructive procedures, the surgeon can see the ciliary processes and therefore can titrate laser delivery properly."

Martin Uram, MD, MPH

- Proper IOL and lens haptic placement is easily confirmed
- Diagnostic assessment via a wide field view providing a virtual tour of the eye.
- Posterior segment views provide clear imaging of the macula and optic nerve head. - Endoscopic vitrectomy, PRP, lensectomy and various posterior segment applications.





"Anyone who can do Phaco

can do ECP in a heartbeat.

probe to "paint" the ciliary

processes in a continuous

phaco, ECP takes an extra

motion. Combined with

2 to 5 minutes."

RJ Mackool, MD

You can learn to use the

"In our patients with controlled glaucoma and cataracts, combined ECP with IOL insertion is my treatment of choice."

> Stephen B Wiles, MD Cataract Surgeon



140° panoramic wide field

illumination delivers maximum

intraocular visibility with a

175Watt Xenon light source.



Precise, 810nm, 2.0Watt diode laser energy, in pulsed or continuous mode, is delivered to the targeted intraocular tissues.





Histology showing selective ablation of the ciliary epithelium

(Clinical studies and scientific data

Measured Results

Without the high failure rates associated with transscleral techniques, ECP is not reserved for end-stage glaucoma. Treatments have proven far superior in accurately isolating ciliary processes, discretely ablating ciliary epithelium, and achieving desired results - without missing, or over/under treating the target tissue.

Further, devastating complication rates are lowest following ECP, and postoperative patient management is facilitated relative to traditional glaucoma procedures.

When compared to all other surgical techniques for glaucoma management, ECP meets and exceeds the long-term goal for reduced IOP and topical medications. Even in studies that compared 'phaco alone' to 'phaco with ECP' the combined procedure showed no higher complication rates, while intended, long-term, positive results were significantly elevated.

Relative to traditional transscleral "cyclodestructive" approaches, intraocular ECP has repeatedly earned marked distinction.



Without incidence of CME or major complications, ECP reduced IOP 38% further than Phaco surgery alone. In addition, 87% of these patients benefited from reduced medications, while more than 60% no longer needed any pharmaceutical management. You can't do phaco expecting that pressures will he lowered."

SJ Berke, MD, FACS

180° ablation resulted in a 15% decrease in IOP and 68% reduction in medications, without visual loss or major

> Berke, SJ., et al. J Glaucoma 2000; 9:1

	ECP mean f/u = 25 mo	CONTROL mean f/u = 44 mo	Ps	
Mean change in IOP (mmHg)	-3.3	-2.4	.48	
Decreased Meds (%)	87	9	.01	
Same (%)	13	73	.01	
Increased Meds (%)	0	18	.001	
No meds (%)	61	5	.01	
CME (%)	0	0		
Major complications (%)	0	0		

	OAG	OAG with Failed Surgery	CACG	CACG with Failed Surgery	NVG	PED GL	Phaco & Uncontrolled Glaucoma Surgery	Phaco & Controlled Glaucoma Surgery
TRAB	90%	50%	50%	30%	NA	< 50%	70%	NA
TUBE	NA	50-70%	50-70%	50-70%	50-70%	< 50%	NA	NA
TSCPC	NA	NA	30-50%	30-50%	30-50%	< 50%	NA	NA
ECP	90%	90%	90%	90%	90%	> 50%	90%	+ 90%

	25 eyes, mean f/u 11 months
Mean Ablation	180°
Mean Decrease IOP	15%
Mean Redution Meds	68%
Postop V isa Loss	0%
MajorComplications	0

	Minor Complications	Devastating Complications	Visual Acuity Loss	Endophthalmitis	Delayed Failures	Operative Time (1-4)	Intensity of Post Op Care (1-4)
TRAB	10-50%	5-10%	5-10%	1%/yr	> 50%	3	4
TUBE	30-50%	30%	~10%	1%	~10-30%	4	3
TSCPC	> 50%	30%	> 40%	NA	~ 40%	2	2
ECP	3-8%	< 1%	< 1%	0%	0-5%	1	1

ECP proves more efficacious in reducing IOP, over 24 months, than trabeculectomy, tube implants, and transscleral treatments.

Relative to these same procedures, ECP produced the smallest percentage of minor complications, visual acuity loss, or devastating complications.



39 Sycamore Ave Little Silver, NJ 07739 USA

www.endooptiks.com info@endooptiks.com

1 (800) 756-3636 1 (732) 530-6762 Fax: (732) 530-5344