

# Surgical procedure

## Technical procedure

- Instructions of surgical procedure.
- 30 minutes before surgery instill Pilocarpine 2% eye drop once only
  - Topical anesthesia: instill Lidocaine 4% three times in 15 minutes
  - Calibration test by means of power meter: 3mW/cm<sup>2</sup> ("POWER ON CHECK" displayed)
  - Patient positioning under surgical microscope and blepharostate placement
  - Mark the corneal area and carry out the disepithelisation of 9mm diameter using blunt spatula
  - Instill 1 drop of Lidocaine 4% again
  - Instill 4-6 drops of Ricrolin (Riboflavin solution 0.1%)
  - Position optical head above the patient and align for accurate focusing
  - Press pedal: from "POWER ON CHECK" to "STEP 0" (imbibition phase)
  - After 10-15 minutes press pedal again to return to "WAIT" phase
  - Width of UV-A light spot must be 8mm in diameter
  - Instil 2 or more drops of Ricrolin at the beginning of each phase
  - Press pedal to start "STEP 1" wich will last 5 minutes. The system will than pass automatically to the "WAIT" phase and then the next step
  - Proceed to subsequent phases until completion of all phases
  - After step 6 the system will automatically return to "POWER ON CHECK"
  - Cleanse ocular surface with sterile saline solution, administer intrasurgery medication and position therapeutic contact lens (CL).

## Intrasurgery medication

1 Tabl. Paracetamolo 500mg - Codeine 30mg (Co-Efferalgan BMS) or 1 Tabl. Ketorolac 10mg (Lixidol).  
Cleanse ocular surface and instill:  
Ofloxacin collyrium 1-2 drops  
Cyclopentolate 1-2 drops  
Flurbiprofen 1-2 drops

## Postsurgery medication

The therapy begun in the surgical phase, to be repeated 4 times a day, continuing until removal of the contact lens (4-5th day). The CL to be removed on completion of the re-epithelialization. Topical medications after surgery should be continued for 15-20 days (according to medical advice) and consist of:  
Ofloxacin collyrium 1-2 drops 4 times a day  
Flurbiprofen 1-2 drops 4 times a day  
Trium eye drops 1-2 drops 4 times a day for at least 3 months



# RICROLIN®

(Riboflavina 0,1%)  
Ophthalmic solution for parasurgical use



Package  
1 sterile pre-filled  
monodose dispenser  
  
1 sterile single-use  
cannula needle

**RICROLIN®** is an ophthalmic solution containing Riboflavin 0.1%. This solution is instilled in the eye during irradiation of UV-A light as part of the parasurgical procedure of corneal collagen cross-linking. The principal objective of **RICROLIN®** is to provide a barrier against UV-A penetration beneath the corneal stroma, and thus protect the delicate internal structures of the eye (corneal endothelium, lens and retina) from damage that may be caused by radiation. **RICROLIN®** solution is in fact capable of reducing up to 95% of the UV energy that reaches the deep strata of the cornea.

### Indications

In association with ophthalmic UV-A radiation, the solution is administered during conservative parasurgical procedures for keratoconus and other corneal ectasia pathologies. In particular the treatment is indicated in the following conditions:  
- Diagnosed Keratoconus and/or secondary ectasia on the basis of clinical, topographical and pachymetrical analyses  
- Clinically and instrumentally diagnosed Progressive Keratoconus  
The administration of **RICROLIN®** in association with UV-A light retards the progression of Keratoconus. This treatment can prevent the necessity of corneal transplant. This treatment does not exclude the possible need of keratoplasty in the future.

### Instructions for use

10-15 minutes prior to irradiation, instil 1 or 2 drops of the product using the appropriate dispenser provided and repeat treatment every 5 minutes. During treatment with UV-A light instil 1 or 2 drops of the solution every 5 minutes for a total of 30 minutes.

### Composition

100ml of solution contains:  
Riboflavin phosphate 0.127 g (equivalent to 0.1g of basic Riboflavin); Destrane T500 20g  
Excipients: Bihydrate sodium phosphate monobasic, Bihydrate sodium phosphate bibasic, Sodium chloride, Distilled water q.b. for 100g

### Contraindications

There are no known contraindications associated with the ophthalmic solution. Use must be avoided in cases of hypersensitivity reactions to the components of the product or to other chemically-related substances

### Side Effects

No systemic or eye structure related side-effects have been reported

### Precautions

- The product must be kept away from direct light
- Right up to the moment the product is to be utilised, it must be stored under refrigeration at a temperature between +4 and +8°C
- Kept within its dispenser, the solution is maintained sterile
- Do not touch the eye surface or other objects with the cannula needle in order to avoid the risk of contamination to the solution
- Do not utilise the product after more than one hour from first use
- Do not utilise the dispenser for more than one patient
- Do not utilise the product after the date indicated on the package
- Do not keep the product in temperature over 25°C
- The product is strictly indicated for external ophthalmic parasurgical use and is therefore utilised exclusively by registered Ophthalmomologists.
- Do not utilise product if packaging is damaged

### Package

1 monodose sterile dispenser filled with 1 ml solution  
1 sterile single-use cannula needle

### Bibliography

Aldo Caporossi, Cosimo Mazzotta e Stefano Baiocchi:  
Principi, indicazioni, tecnica e risultati del Cross-Linking corneale Riboflavina + UV-A nella terapia del cheratocono evolutivo, editore I.N.C.

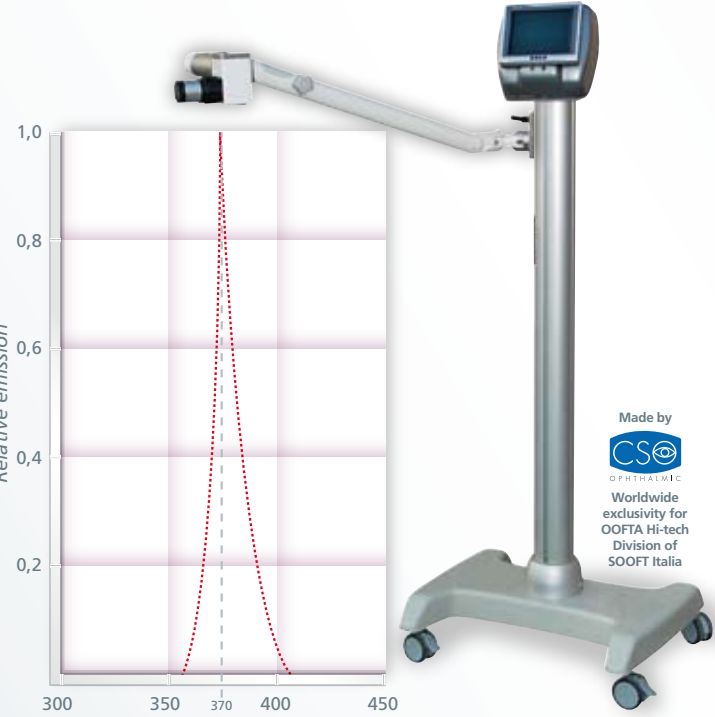
Aldo Caporossi MD, FRCS, Cosimo Mazzotta MD, PhD, Stefano Baiocchi MD, PhD:  
Technological Innovations in Corneal Collagen Cross-Linking. Ophthalmology Times Europe, September 2007

# VEGA

### TECHNICAL CHARACTERISTICS

- Timer and Monitor to observe all procedure steps
- Control pedal
- Fixation point
- Incorporated telecamera with focus controller
- Improved irradiation consistency thanks to the excellent UV illuminator, integrated with innovative optical system
- Adjustable diaphragm to vary the treatment area
- Built on a stand with wheeled base
- Balanced operating arm

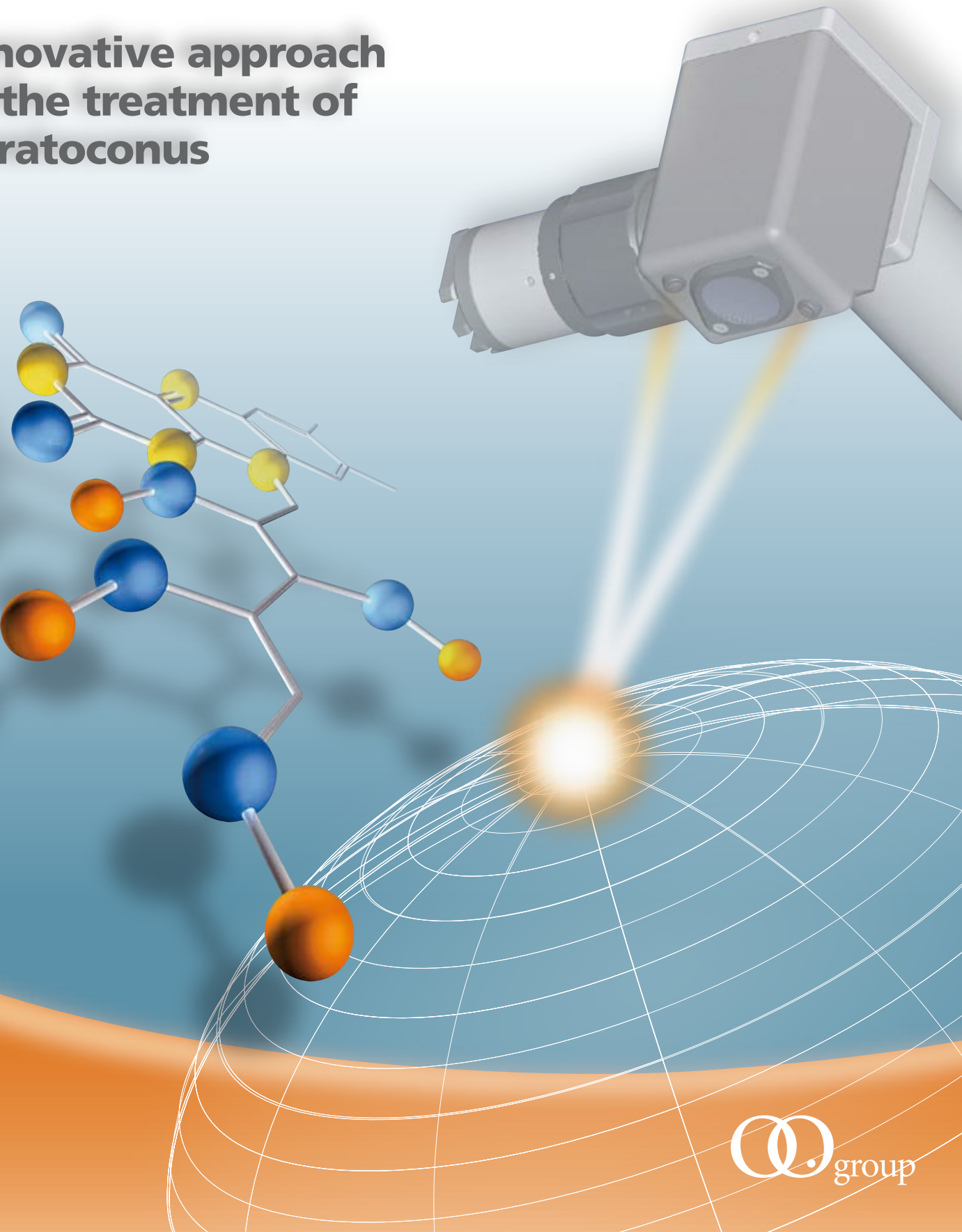
Characteristic of UVA source	Single LED for UV-A rays Maximum wavelength: 370nm Width of ray: 8nm
Power density of irradiation	3mW/cm2 (nominal) Accuracy: ± 10%
Diameter of radiated area	Between 4 -11 mm (@ 54mm)
Collimation system	Couple of red LED
Telecamera	Integrated with optic head Colour micro-telecamera Colour, 5,6 inch
Monitor	
Dimensions	1000 x 545 x 1280 mm



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## Innovative approach in the treatment of keratoconus



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