



VISIOFLAVIN

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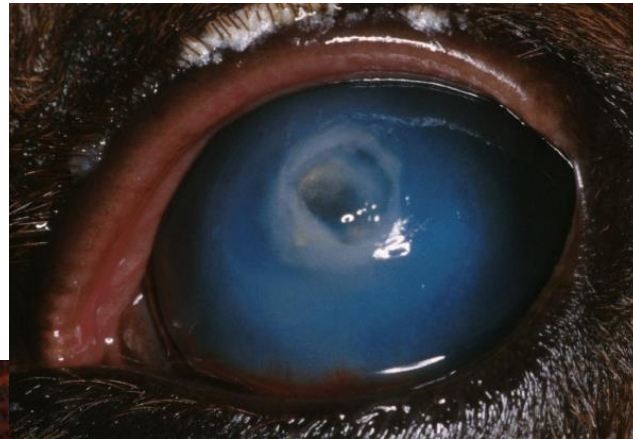
IMPROVING EYE CARE IN VETERINARY MEDICINE



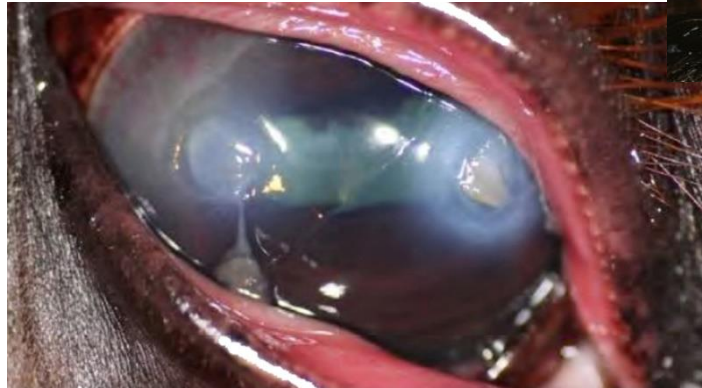
**Infectious keratitis** and **corneal ulcer** are common diseases in dogs, cats, horses and birds.

They can be rapidly complicated by *corneal melting* leading to visual loss.

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dog



horse



bird

cat

# ***CURRENT THERAPIES ARE INEFFECTIVE!***

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Topical antibiotics represent the gold standard for treating infectious keratitis.

**The results of medical treatment for corneal ulcer are variable and frequently ineffective**

In 50% of bacterial isolates from dogs and cats,\* **staphylococci** and **streptococci** (2/3 of all corneal infections) are **resistant to antibiotics!**

\*Suter et al. Veterinary Ophthalmology 2017: 1-10; Saputra et al. PLoS ONE 2017; 12(4): e0176379

# Corneal photochemotherapy with **VETUVIR**

is the **new antimicrobial therapy** for efficiently treating **infectious keratitis** with **riboflavin** and **UV-A light**.



*Indication for use: Infectious keratitis and septic corneal ulcer in companion animals and horses.*



# How does it work?

Corneal photochemoterapy is performed by irradiating the cornea, which has been soaked with **VISIOFLAVIN** riboflavin solution for 20 minutes, using **VETUVIR**, the advanced UV-A device.

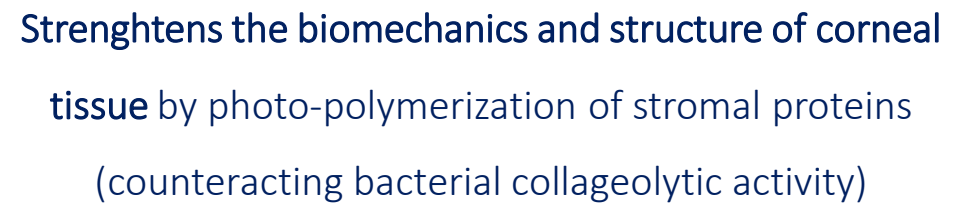
- 1) Soak the cornea with VISIOFLAVIN
- 2) Irradiate the cornea with VETUVIR

**VISIOFLAVIN**



**VETUVIR**

**VETUVIR** and **VISIOFLAVIN** are for veterinary use only. Trademarks registered by Vision Engineering Italy srl.



# Unique features

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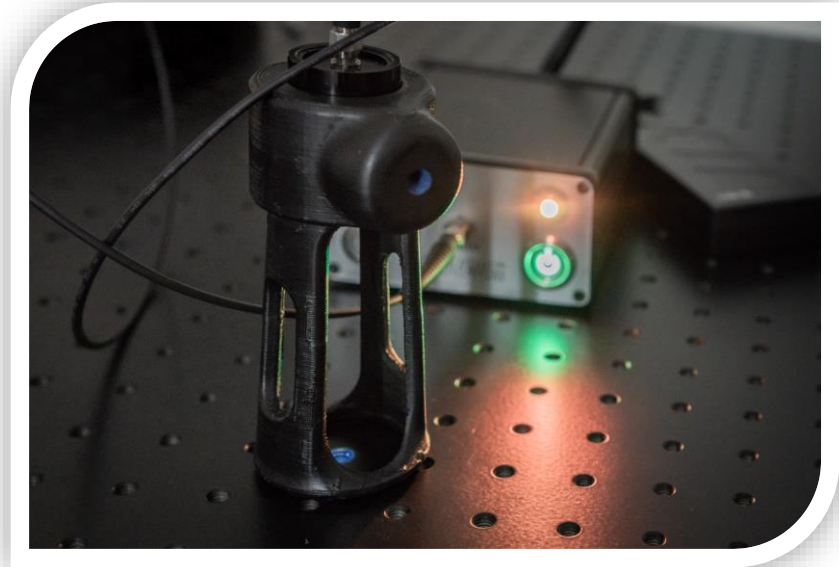
Two UV-A irradiance settings: 10 mW/cm<sup>2</sup> and 30 mW/cm<sup>2</sup>

Fully portable

Easy-to-use

Bluetooth remote control

*Efficiently used either  
in the operating room  
or in the stable*



*Manufactured according to Dir. CEE 2001/95, 2006/42/CEE and 2014/30/UE*

# *Riboflavin with enhancers*

## *0.1% riboflavin solution*

- *hypotonic*
- *dextran-free*
- *with enhancers*

*Visioflavin permits homogeneous  
and deep penetration of riboflavin  
across the stroma*





# Clinical cases

Courtesy Prof. R. Gialletti



Horse with chronic corneal abscess  
(pseudomonas+ and streptococcus+)  
Resistant to antibiotic therapy.



**1 week** after VETUVIR:  
Almost complete resolution  
of the abscess.



**5 weeks** after VETUVIR:  
(pseudomonas- and streptococcus-)  
Vision is restored.

# Clinical cases

Courtesy Prof. R. Gialletti



Horse with chronic corneal abscess

**(aspergillus+)**

Resistant to topical therapy (>4 weeks).



3 days after VETUVIR:  
wound healing process started.



4 weeks after VETUVIR:  
**(aspergillus-)**  
Vision is restored.



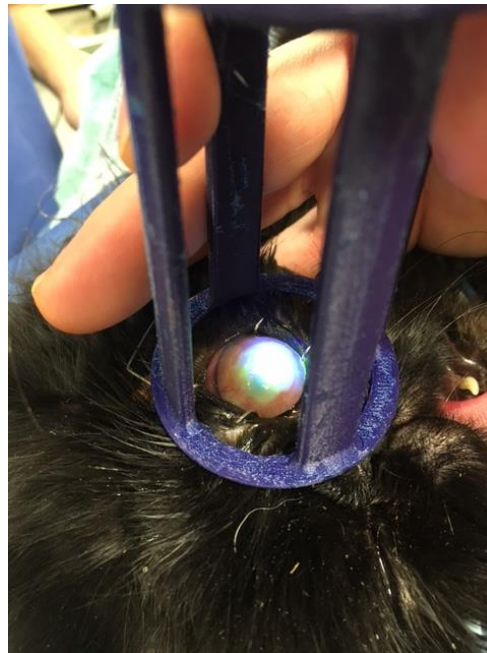
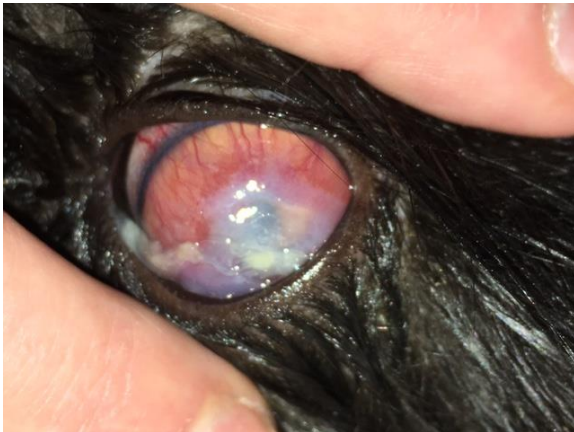
# Clinical cases

Courtesy Dr. C. Giordano

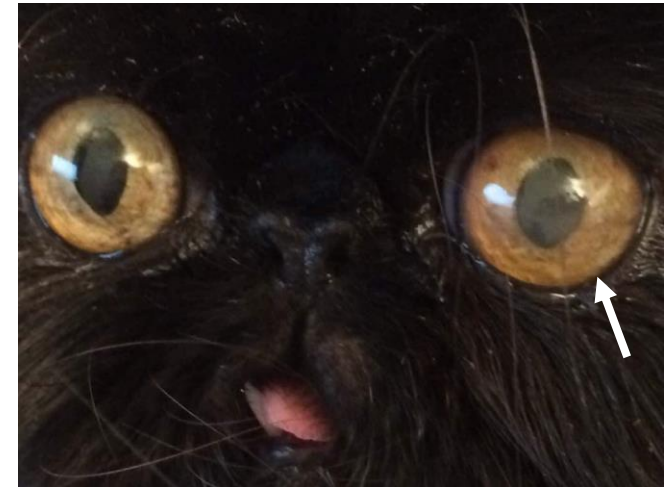


## Corneal photochemotherapy

Persian cat  
with ulcerative keratitis



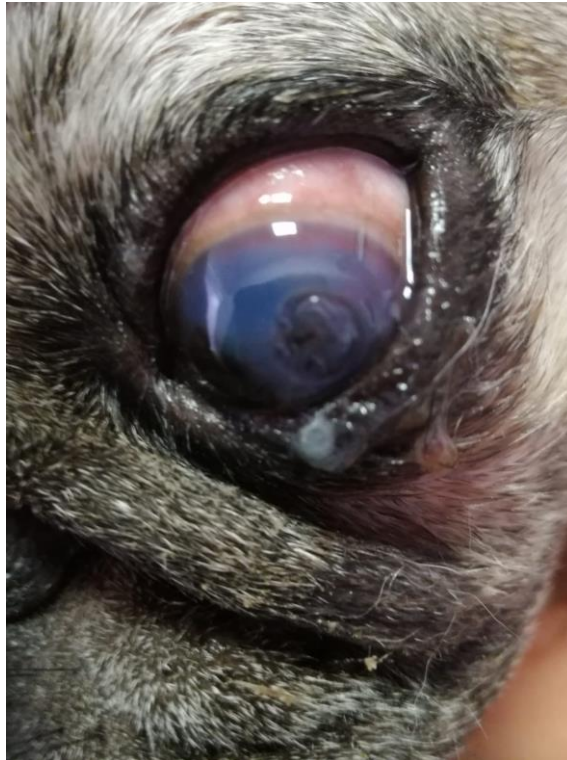
1 month after VETUVIR



2 months after VETUVIR  
The left cornea is almost CLEAR

# Clinical cases

Courtesy Dr. A. Marchegiani



Shitzu with corneal ulcer  
(stafilococco+ ed enterococco+)

UNIVERSITÀ BICAMPERIO  
Scuola di Bioscienze e Medicina Veterinaria  
Laboratorio di Microbiologia Medica e di Malattie Infettive

DATA 17/09/2018  
Num. Registro 18/B320

MATERIALE: Tampone congiuntivale INVIATO IL: 17/09/2018

SPECIE ANIMALE: Cane RAZZA: Shitzu ETÀ: 5AA SESSO: M

PROVENIENZA Dott. Andrea Marchegiani

PROPRIETARIO

INDIRIZZO PROVINCIA

COMUNE C.A.P.

CF / P. IVA

ESAMI ESEGUITI Esame batteriologico e antibiogramma.

RISULTATO *Staphylococcus spp.*; *Enterococcus spp.*

ANTIBIOGRAMMA (METODO DI KIRBY-BAUER)

Antibiotico	Risultato <i>Staphylococcus</i>	Risultato <i>Enterococcus</i>
TOBRAMICINA	sensibile	sensibile
NETILMICINA	sensibile	sensibile
ERITROMICINA	sensibile	resistente
GENTAMICINA	resistente	sensibile
RIFAMPICINA	resistente	resistente
OXACILLINA	resistente	sensibile
CIPROFLOXACINA	resistente	sensibile
AMOXICILLINA	sensibile	sensibile

Colture & antibiogramma



3 weeks after VETUVIR.  
Cornea completely healed!



# Clinical cases

Courtesy Prof. C. Peruccio



## Photochemoterapy

French bulldog with corneal melting and descemetocoele.  
Resistant to antibiotic therapy.



**1 day** after VETUVIR:  
(no more descemetocoele)

**2 weeks** after VETUVIR:  
The cornea becomes  
more transparent.



**4 weeks** after VETUVIR:  
Visual function is preserved.





## ORDERING AND INFORMATION

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

VISIOFLAVIN



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## IMPROVING EYE CARE IN VETERINARY MEDICINE

