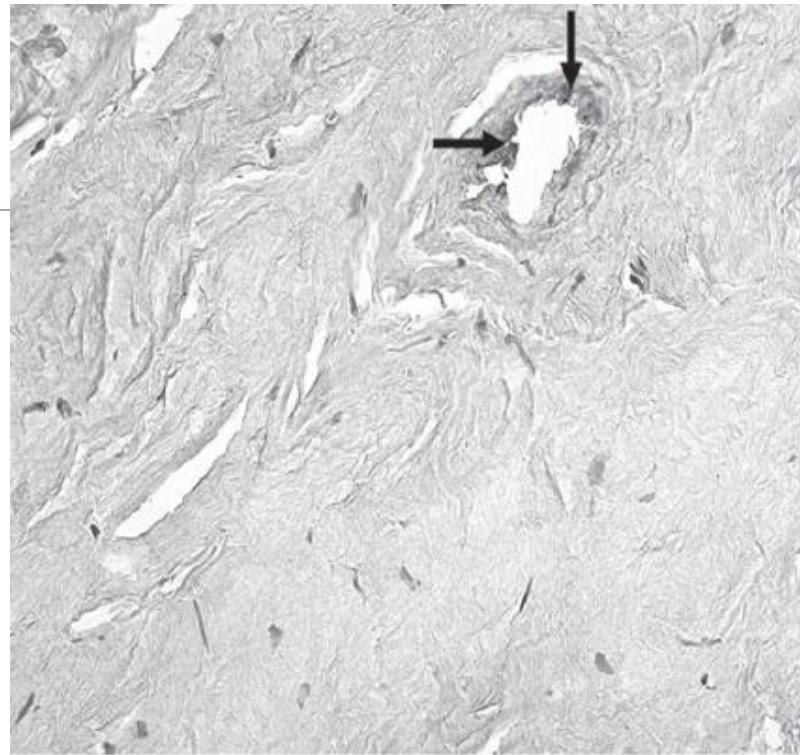
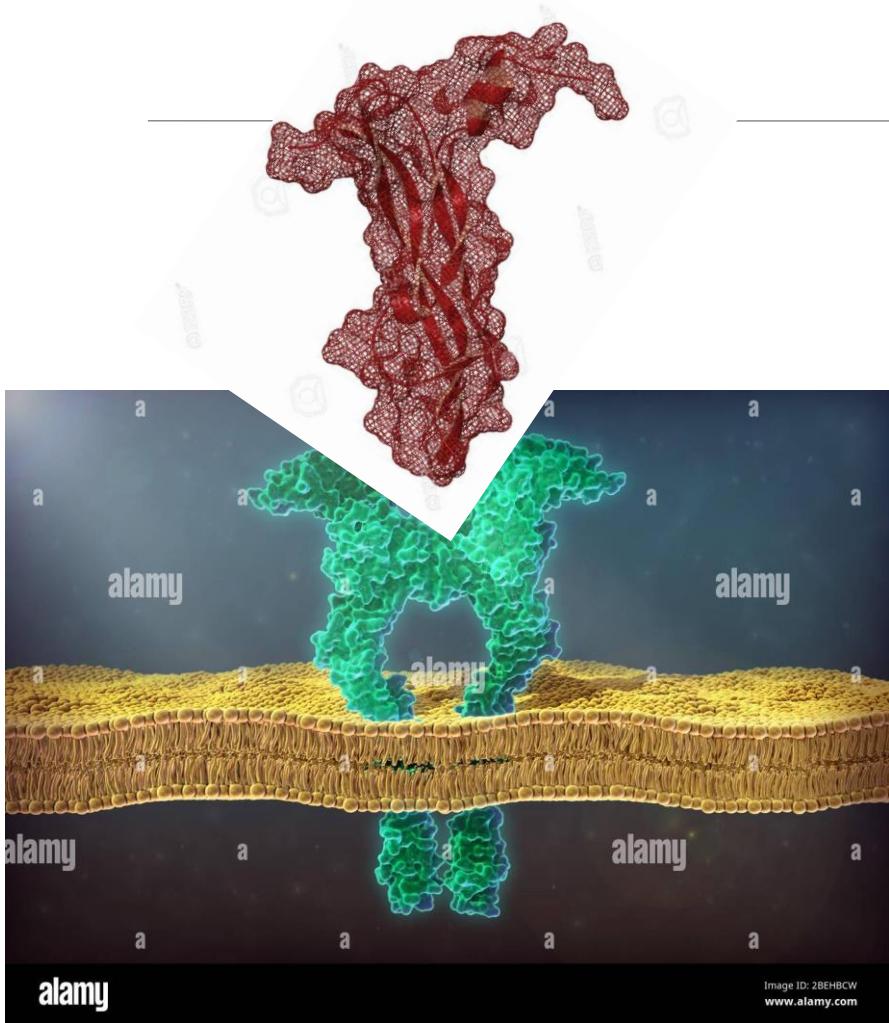


GESTIONE DELL'EDEMA MACULARE NEL PAZIENTE GLAUCOMATOSO

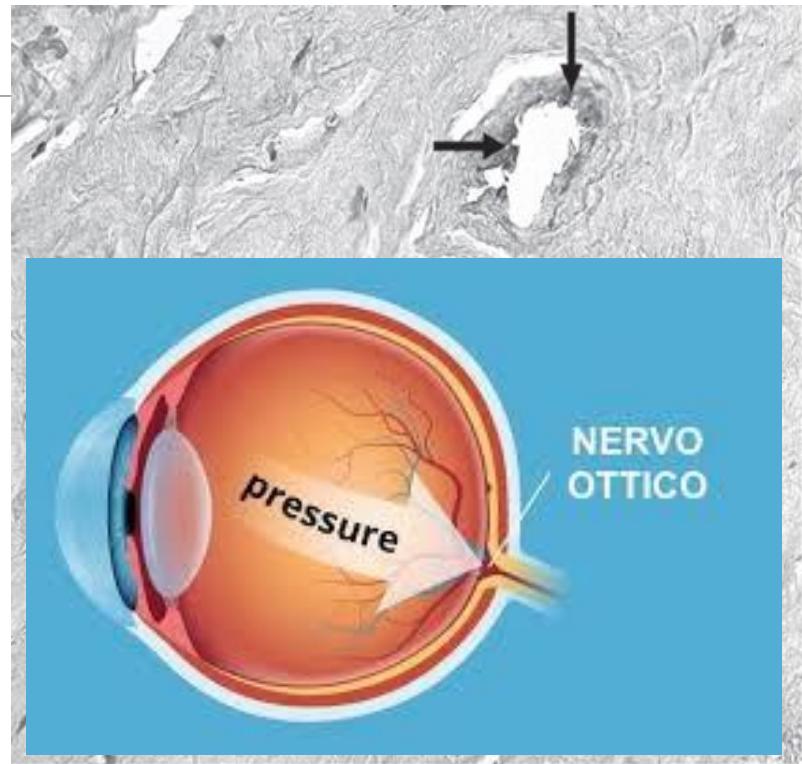
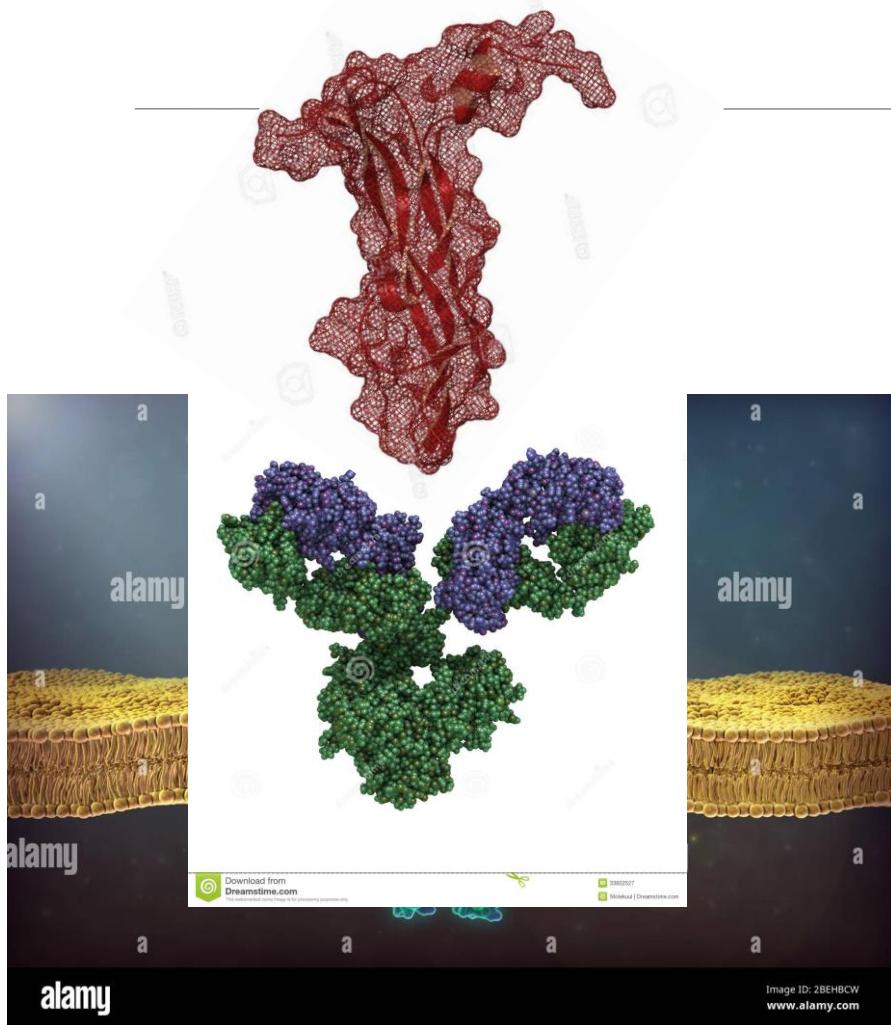


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DI FERRARA
- EX LABORE FRUCTUS -

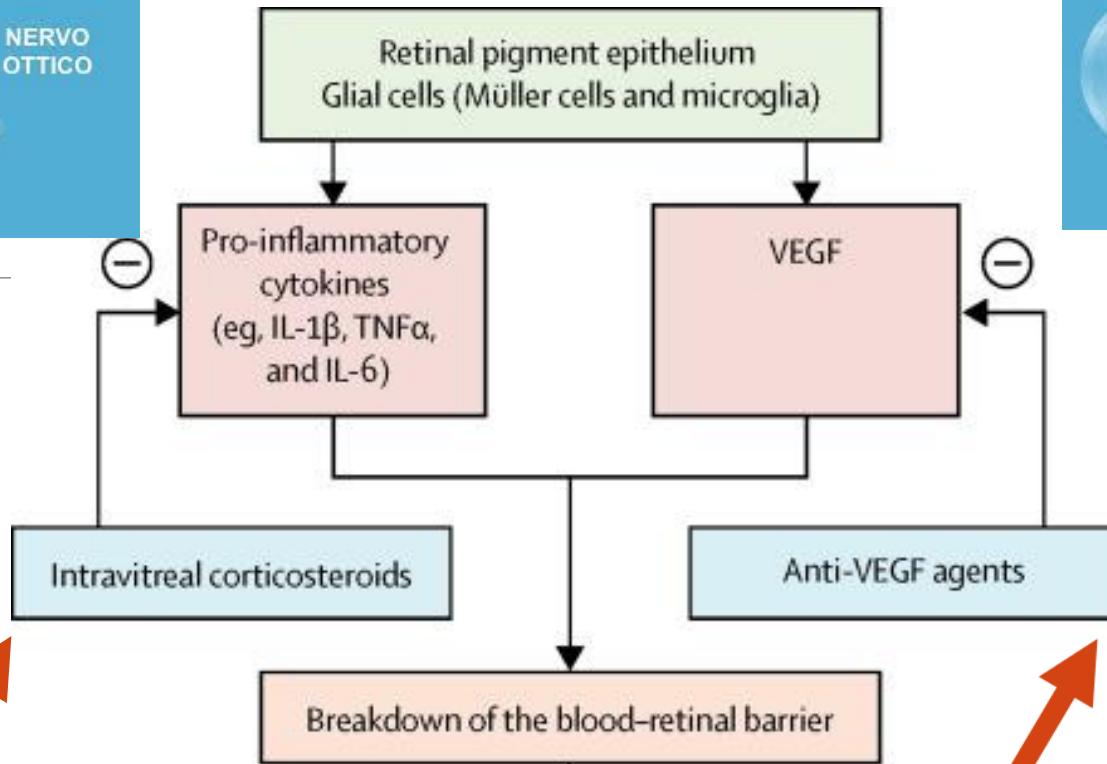
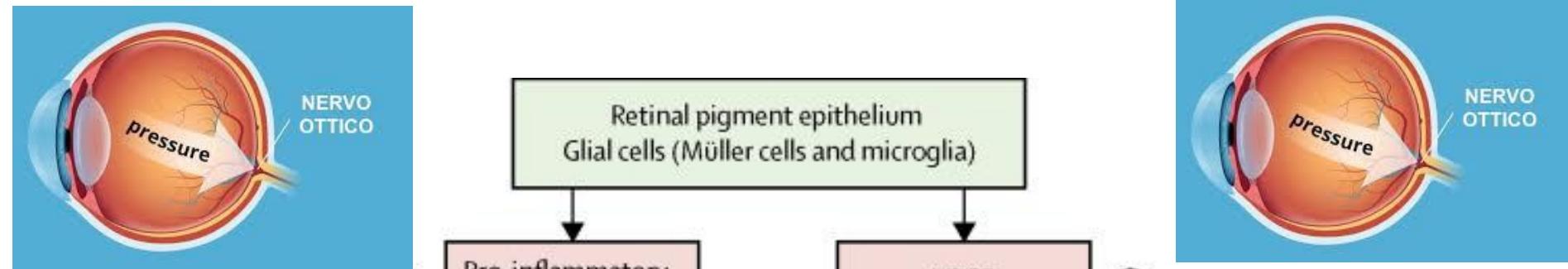
Dott. Giuseppe Lamberti
U.O. Oculistica
Dir: Prof. Marco Mura

GESTIONE DEL GLAUCOMA NEL PAZIENTE CON EDEMA MACULARE

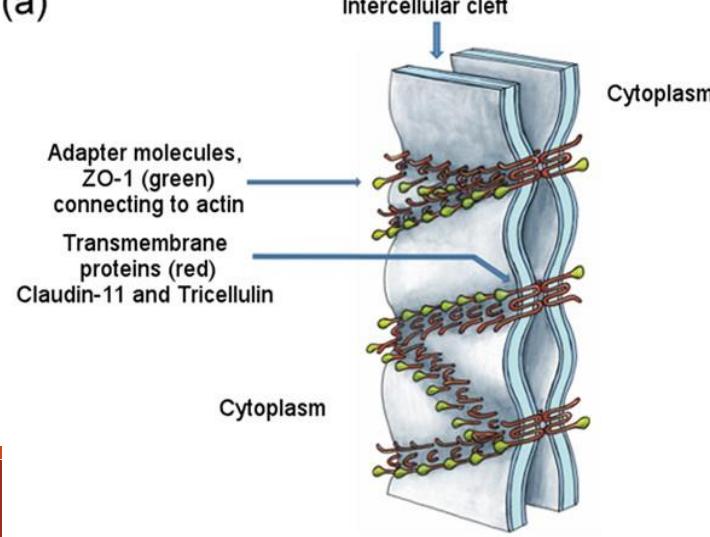
Dott. Giuseppe Lamberti



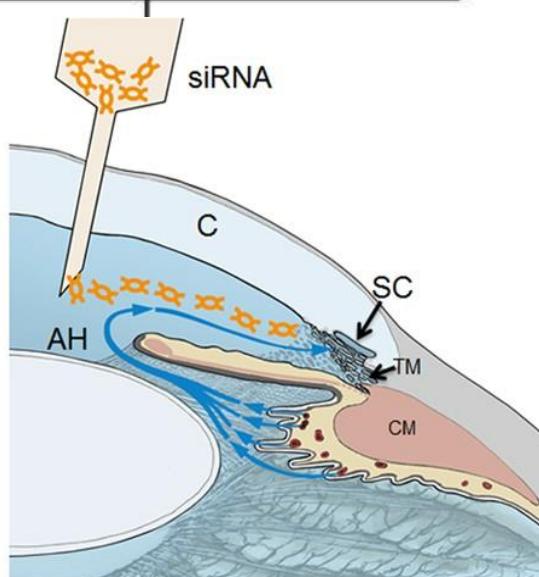
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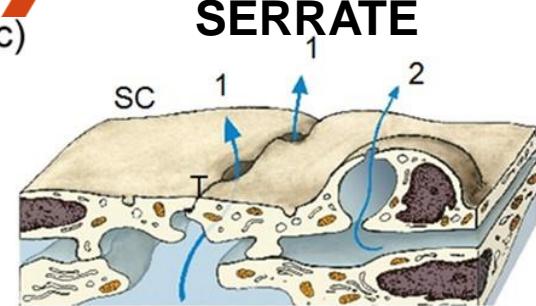
(a)



(b)



(c)



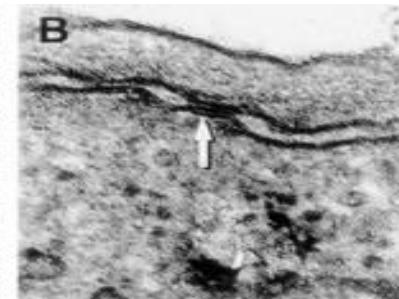
(d)



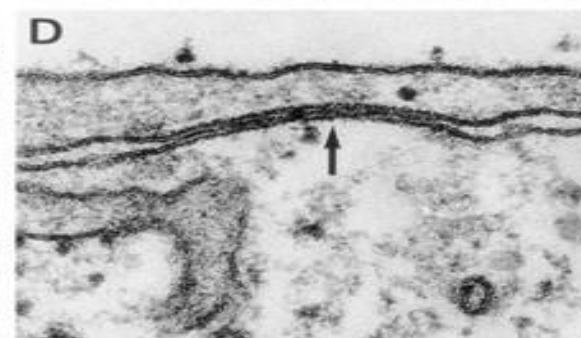
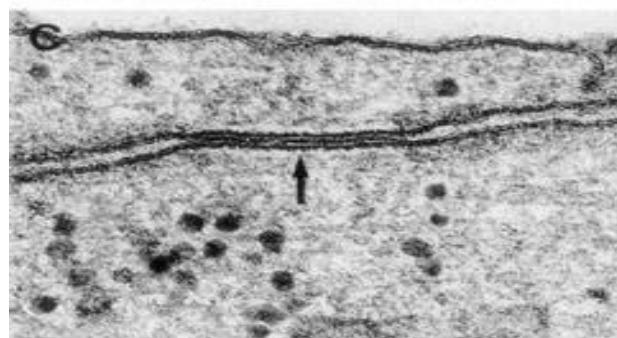
**CONTROLLO
APERTURA
GIUNZIONI
SERRATE**

Glucocorticoids regulate transendothelial fluid flow resistance and formation of intercellular junctions

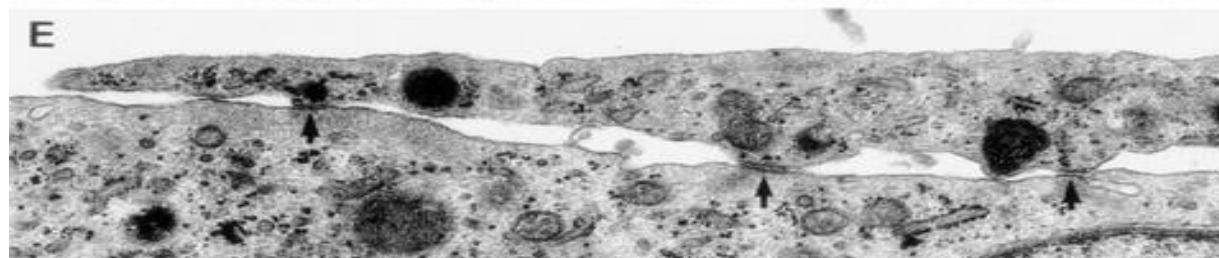
Johnnie L. Underwood



**CONTROLLO
APERTURA
GIUNZIONI
SERRATE**

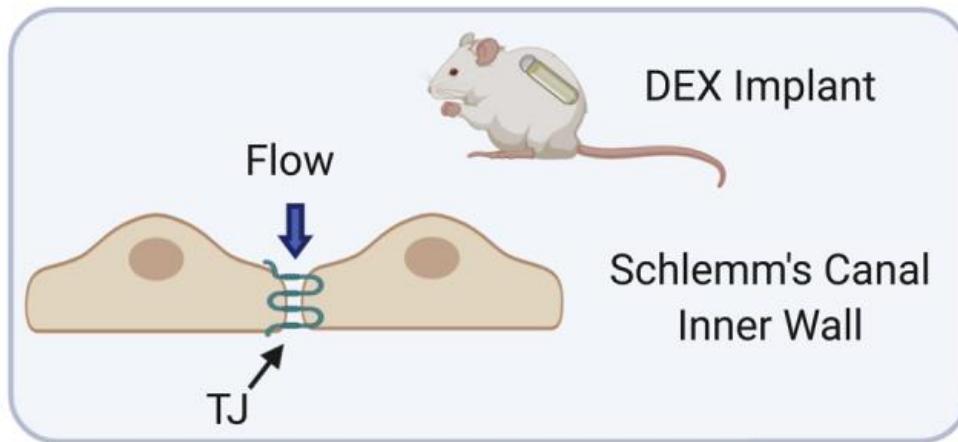


DEX

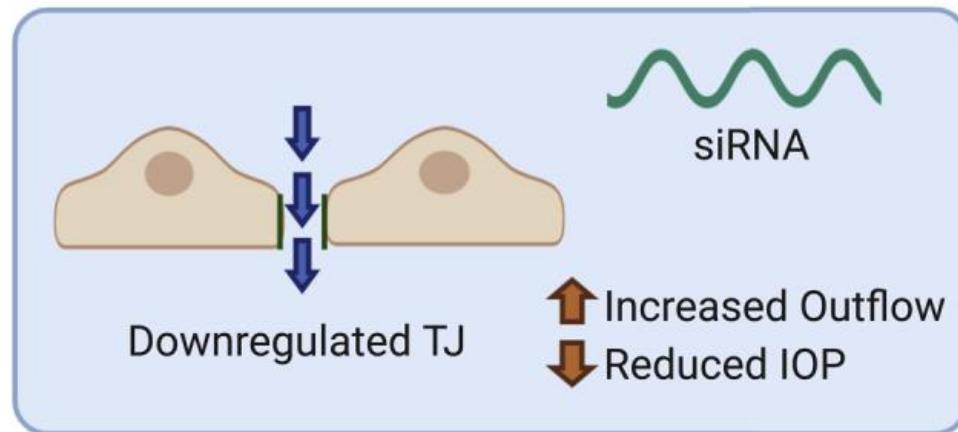


NO DEX

GC treatment can have a range of effects on the outflow pathway, including altering TM cell functions, extracellular matrix metabolism, and gene expression, which may be responsible for the increase in outflow resistance associated with GC treatment.



**CONTROLLO
APERTURA
GIUNZIONI
SERRATE**

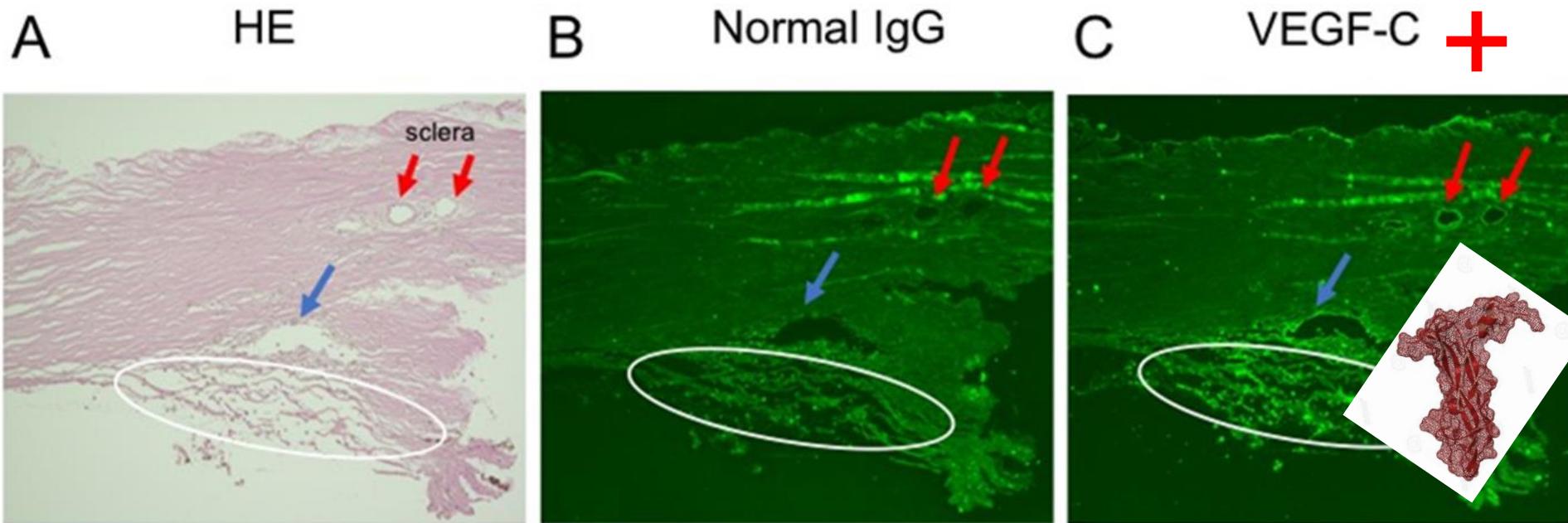


GESTIONE DELL'EDEMA MACULARE NEL PAZIENTE GLAUCOMATOSO

Article

Expression of Vascular Endothelial Growth Factor-C in the Trabecular Meshwork of Patients with Neovascular Glaucoma and Primary Open-Angle Glaucoma

J. Clin. Med. 2021, 10, 2977



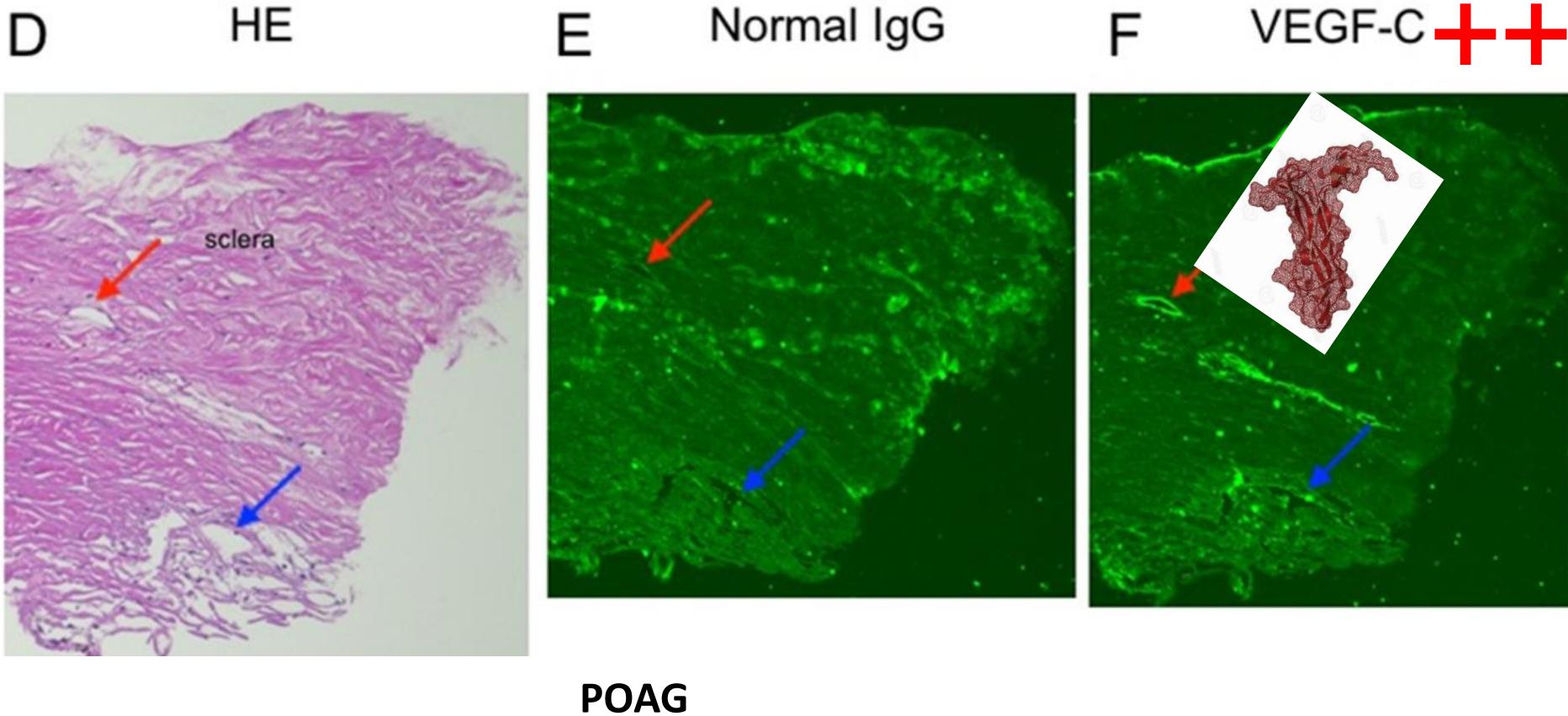
GLAUCOMA NEOVASCOLARE

GESTIONE DELL'EDEMA MACULARE NEL PAZIENTE GLAUCOMATOSO

Article

Expression of Vascular Endothelial Growth Factor-C in the Trabecular Meshwork of Patients with Neovascular Glaucoma and Primary Open-Angle Glaucoma

J. Clin. Med. 2021, 10, 2977

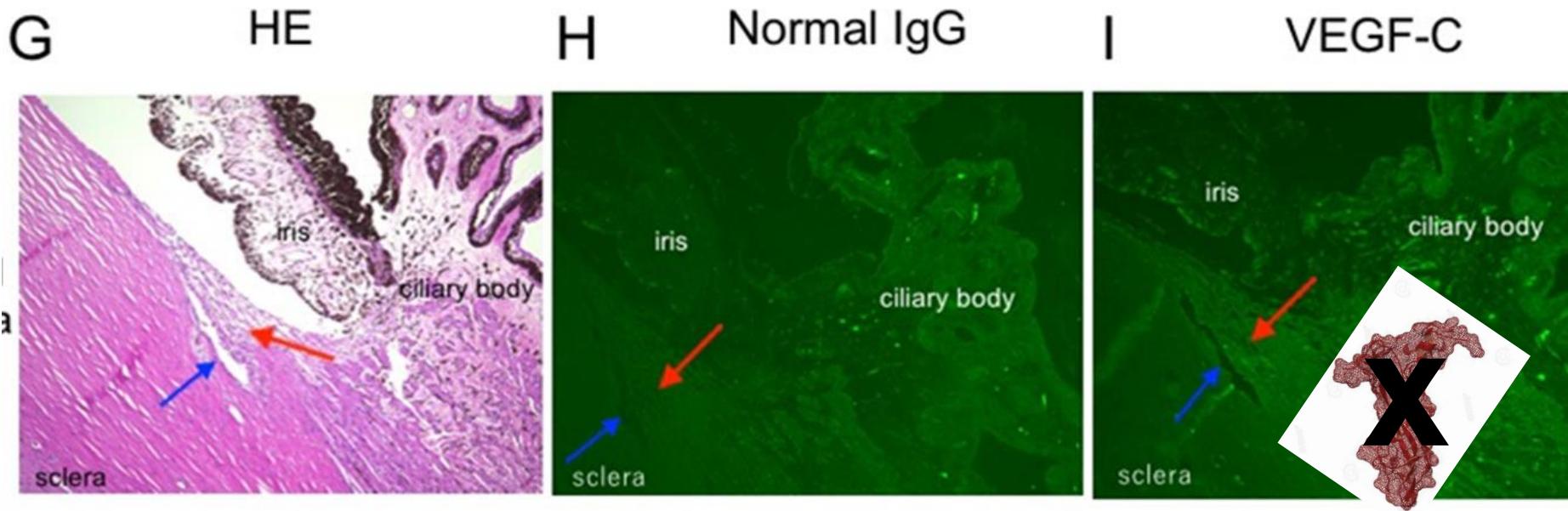


GESTIONE DELL'EDEMA MACULARE NEL PAZIENTE GLAUCOMATOSO

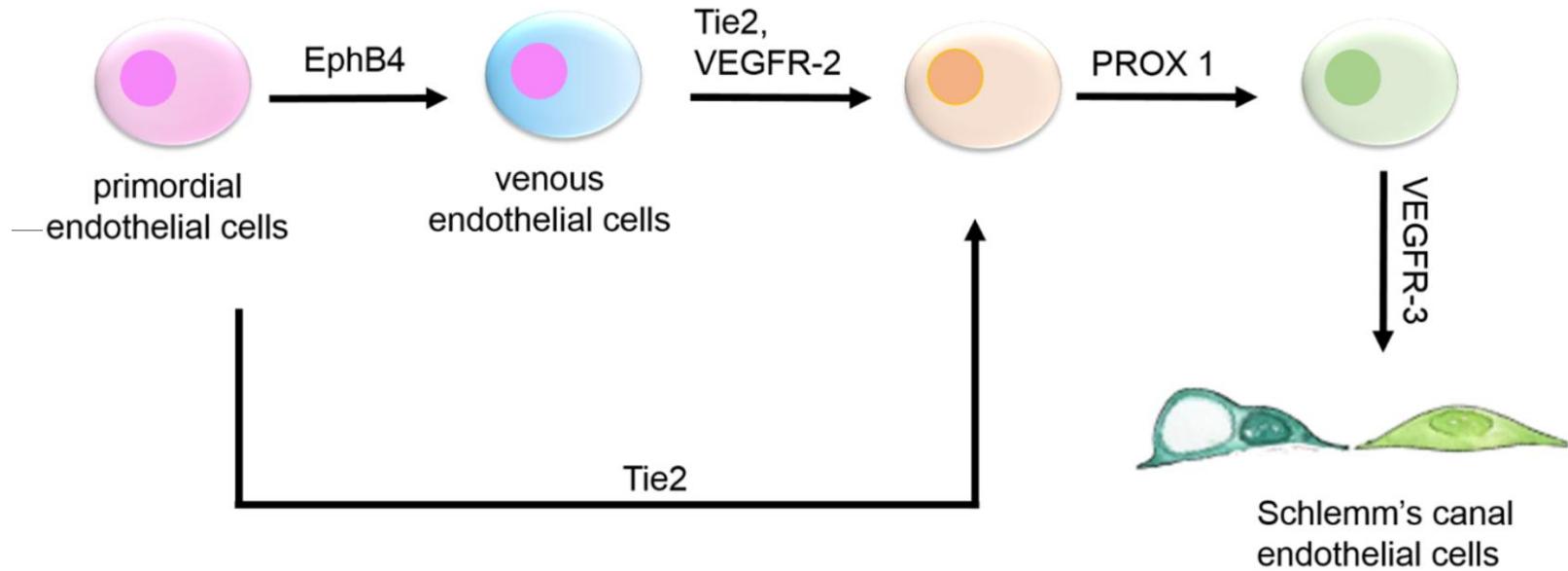
Article

Expression of Vascular Endothelial Growth Factor-C in the Trabecular Meshwork of Patients with Neovascular Glaucoma and Primary Open-Angle Glaucoma

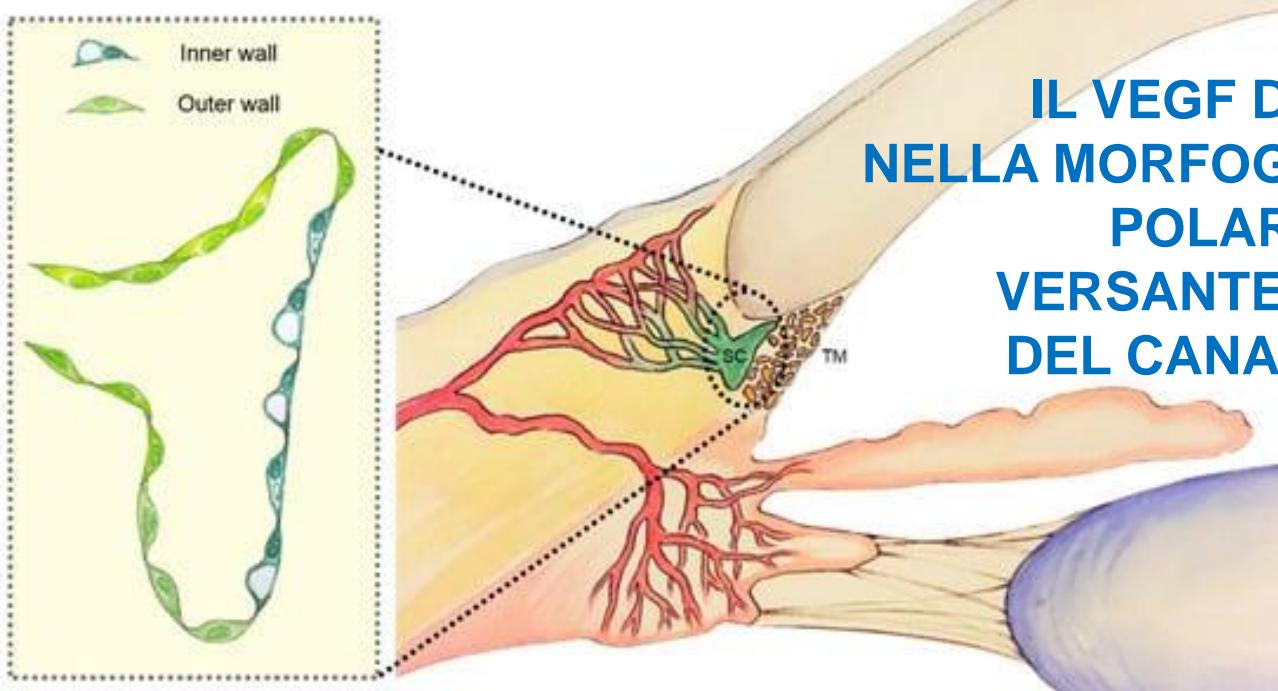
J. Clin. Med. 2021, 10, 2977

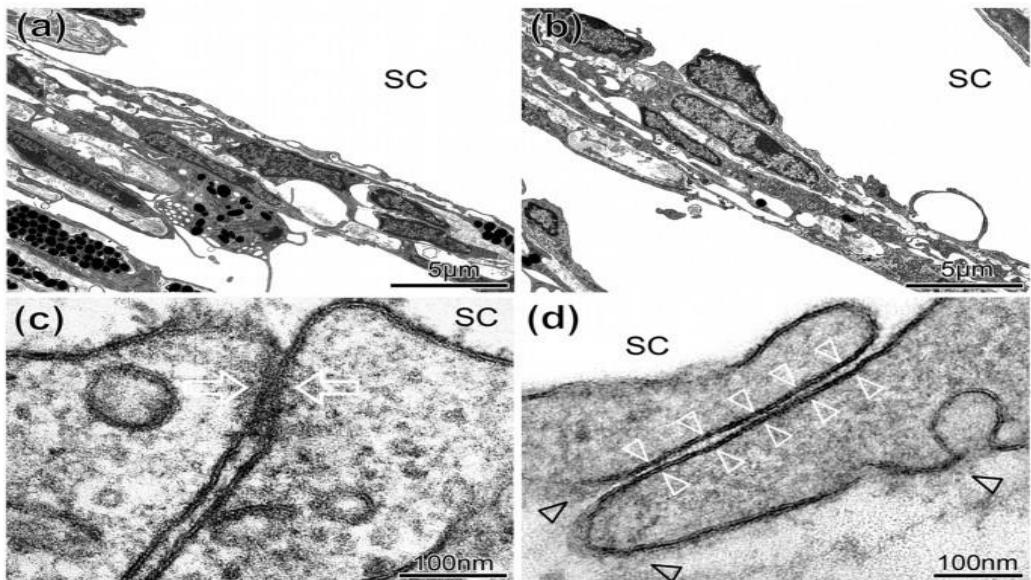


VEGF-C, Aqueous humor

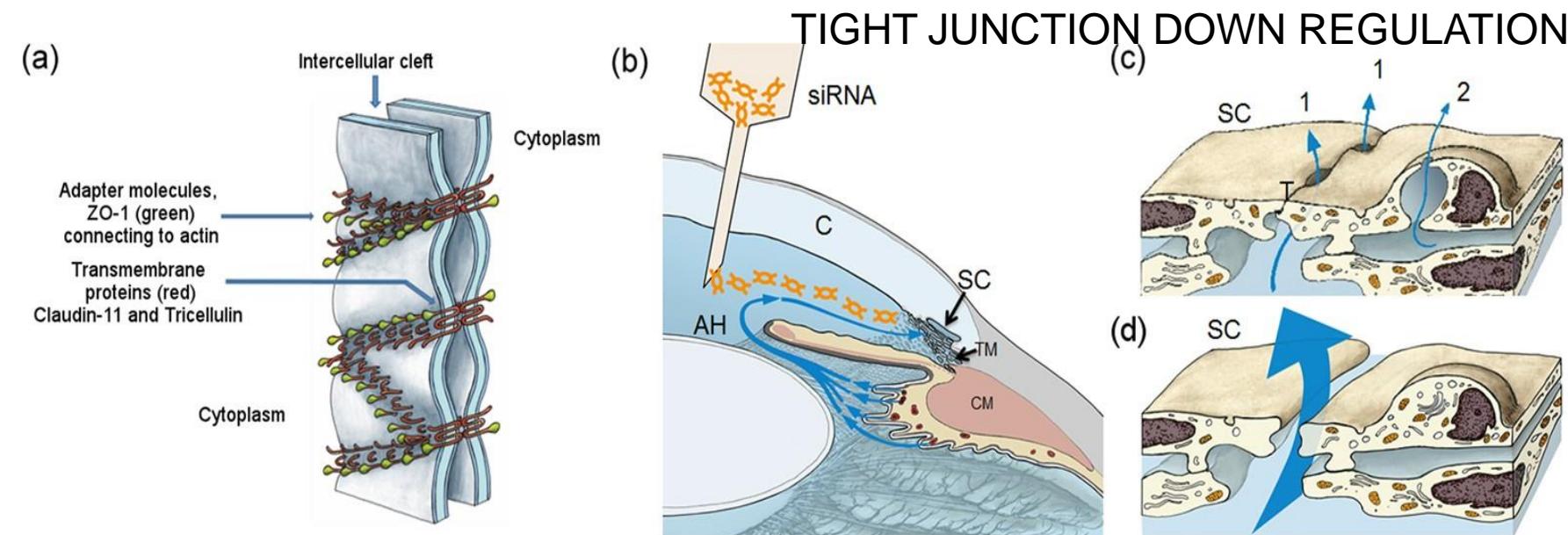


**IL VEGF DETERMINANTE
NELLA MORFOGENESI ENDOTELIALE
POLARIZZATA DEL
VERSANTE TRABECOLARE
DEL CANALE DI SCHLEMM**



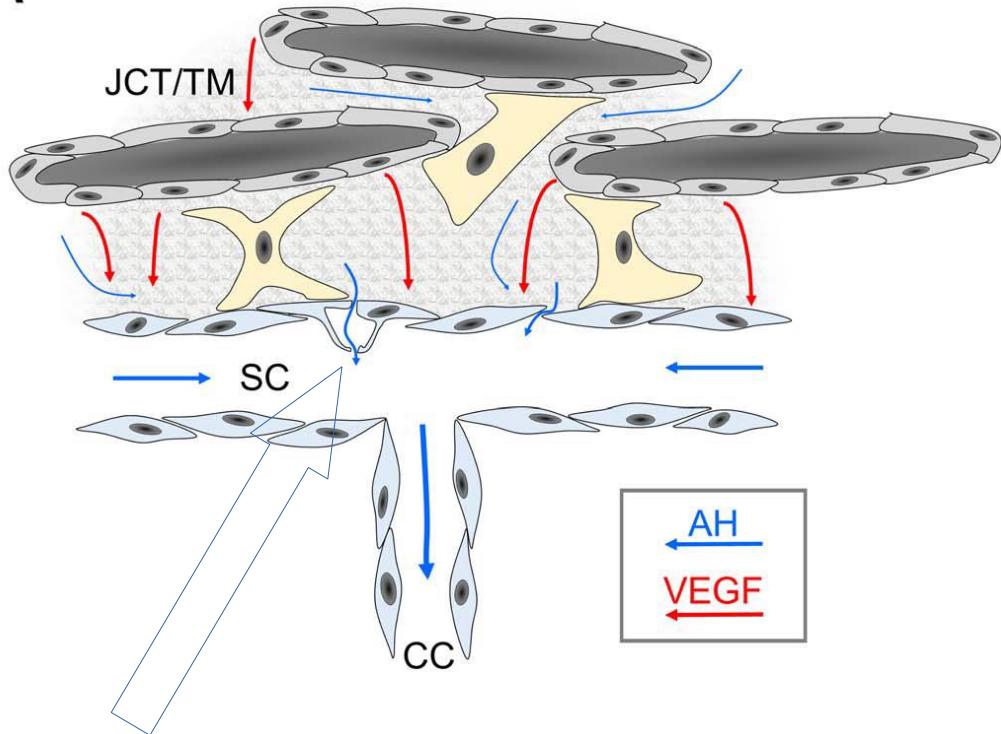


Mechanistically, chronic shear stress regulates eNOS activity through two pathways; regulation of eNOS transcription and control of eNOS mRNA stability. In response to the onset of shear stress, transcription of eNOS is transiently upregulated by NF κ B activation and p50/p65 binding to a GAGACC sequence in the eNOS promoter at the shear stress responsive element (SSRE)³

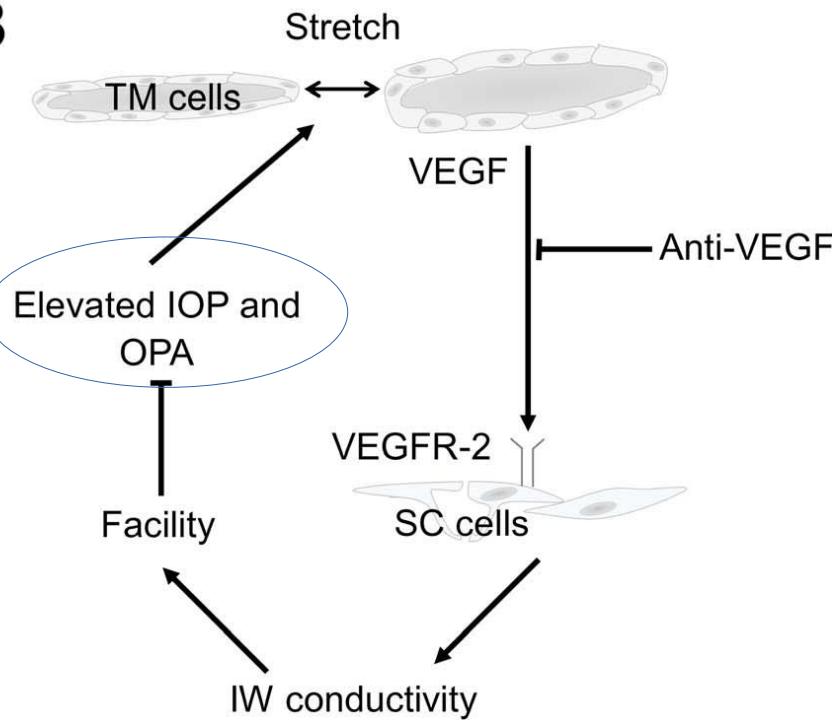


VEGF RIDUCE LA RESISTENZA AL DEFLUSSO PRIMARIO TRABECOLARE

A

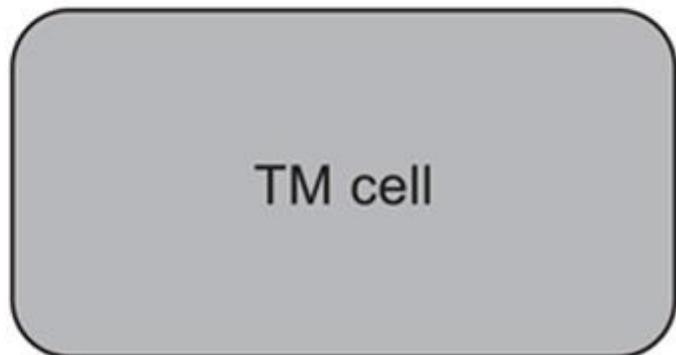
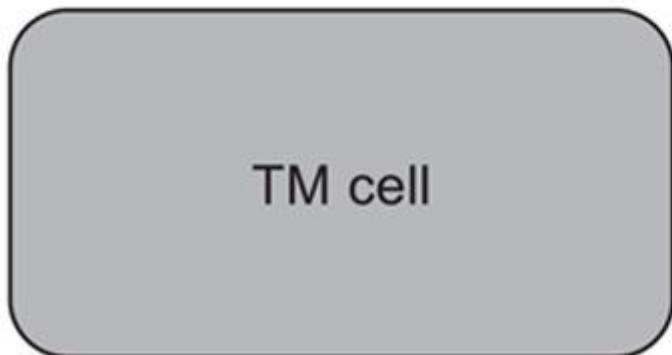
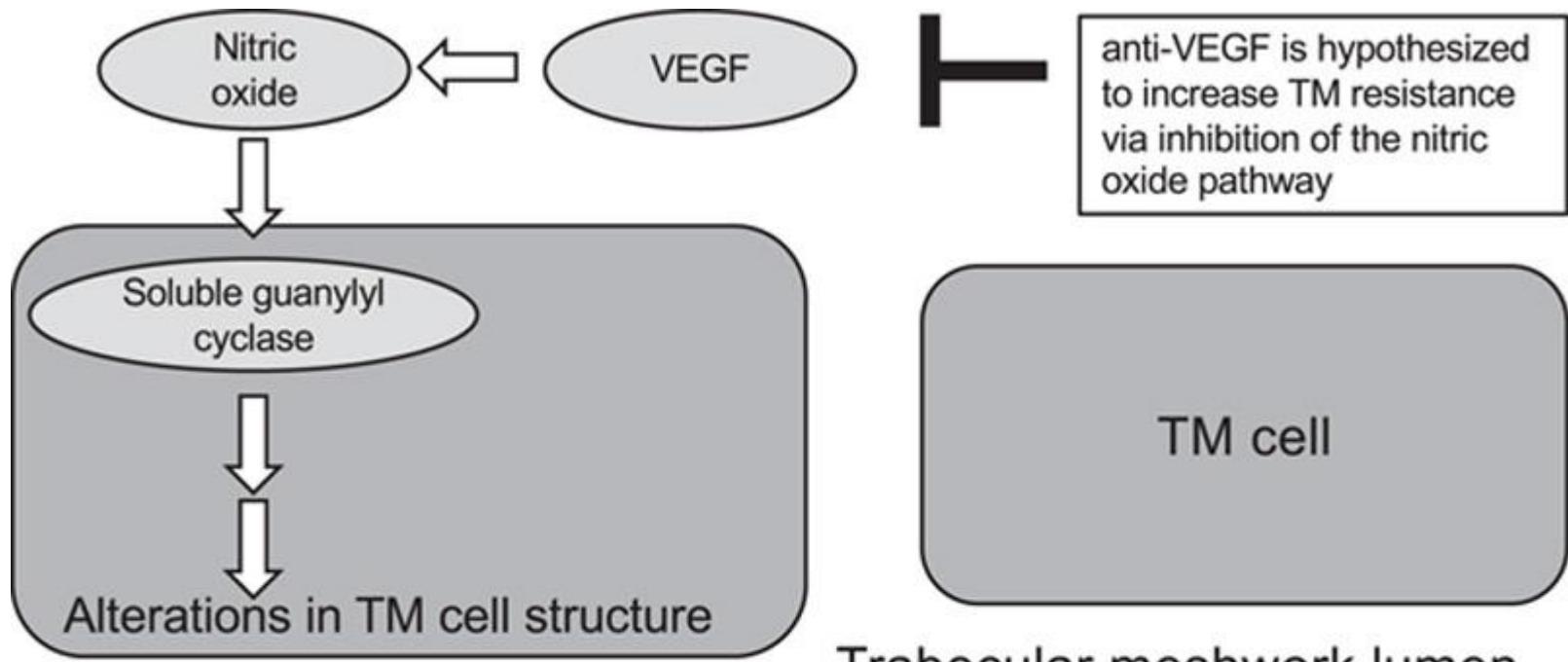


B



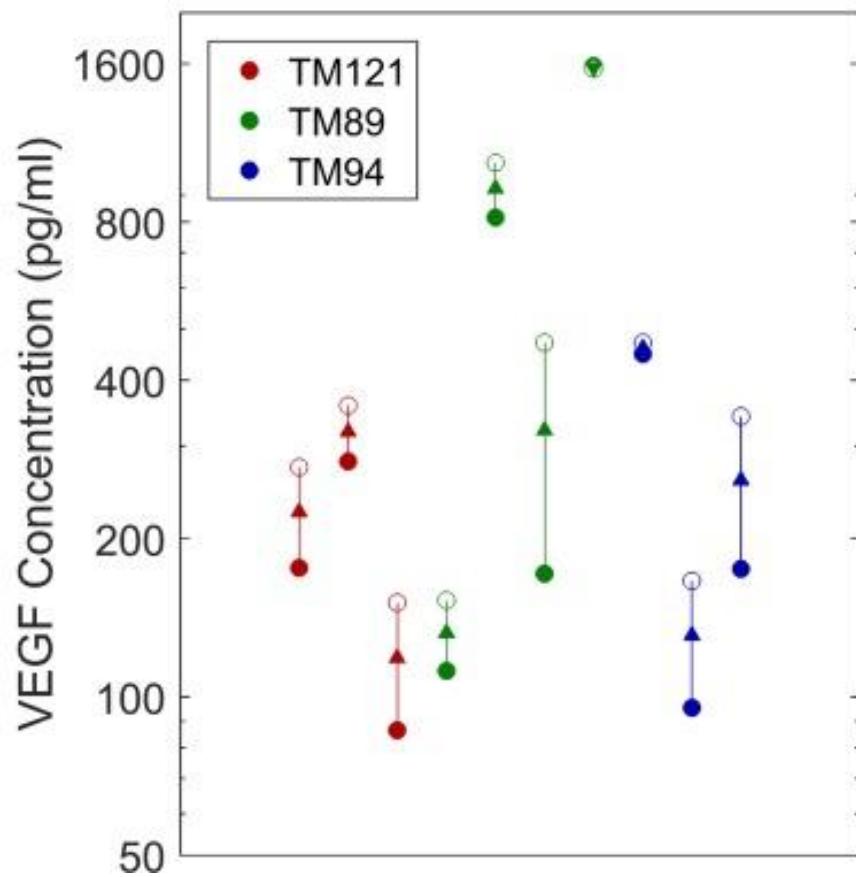
VEGF as a Paracrine Regulator of Conventional Outflow Facility

Ester Reina-Torres,

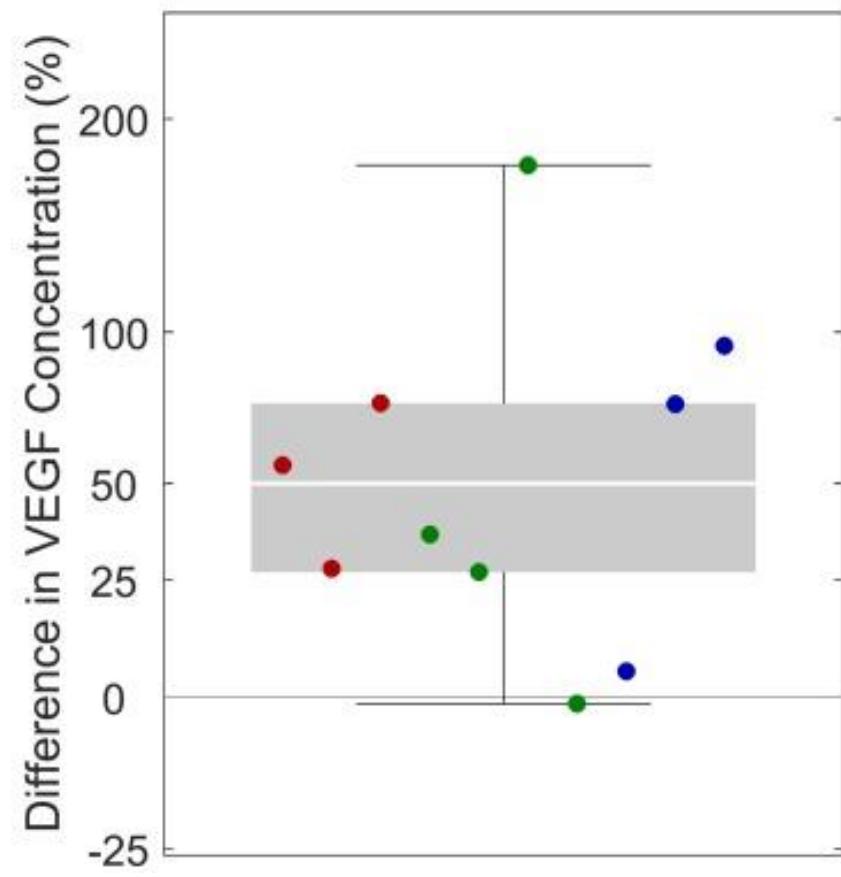


VEGF-A Is Secreted by TM Cells in Response to Mechanical Stretch

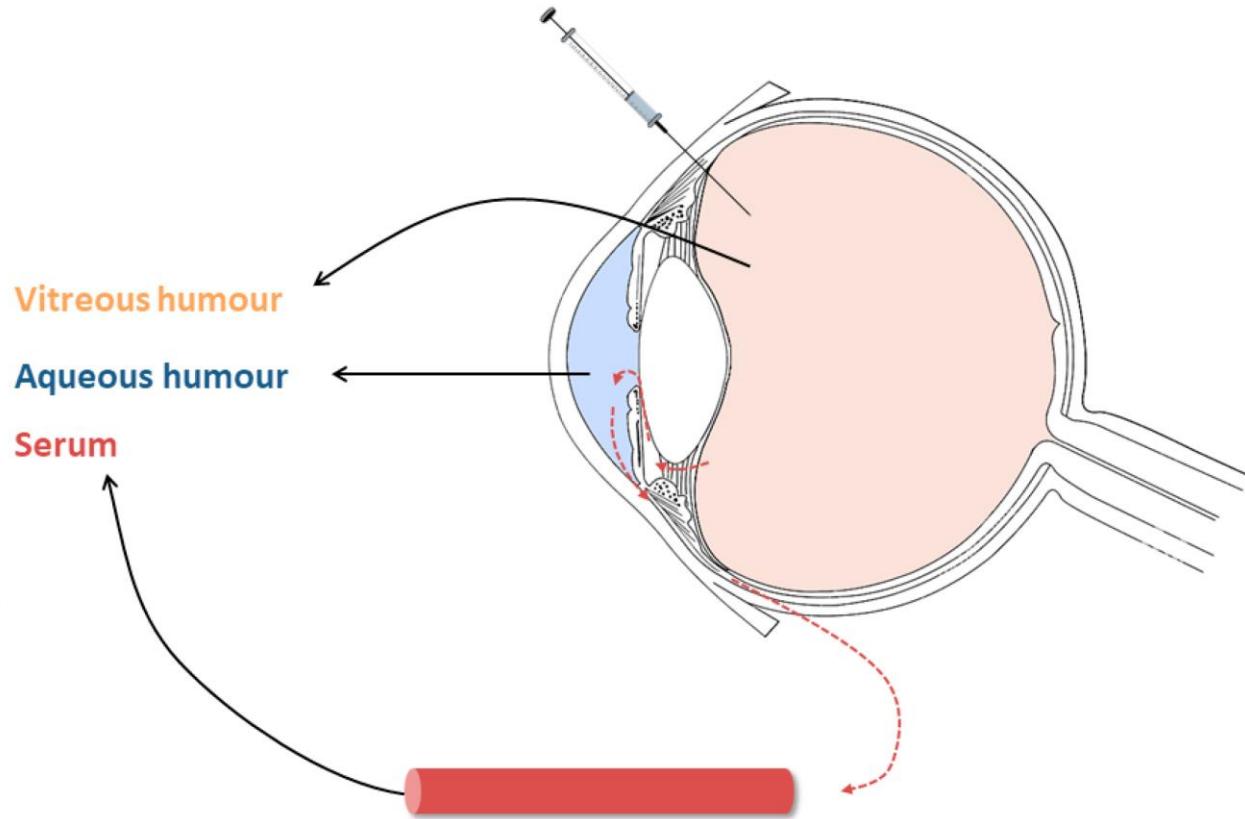
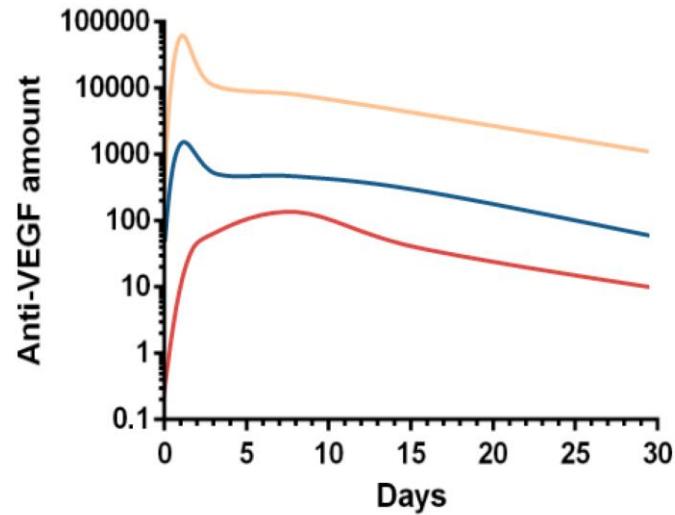
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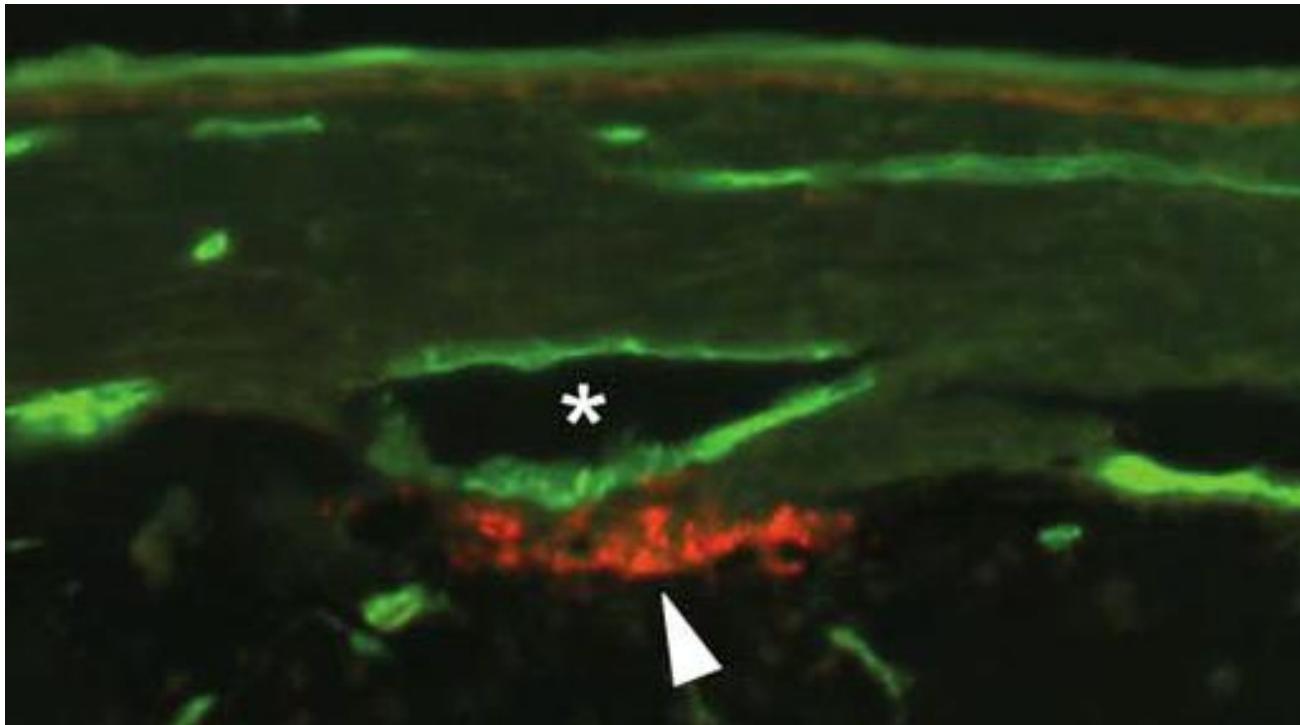


B



ANTI VEGF

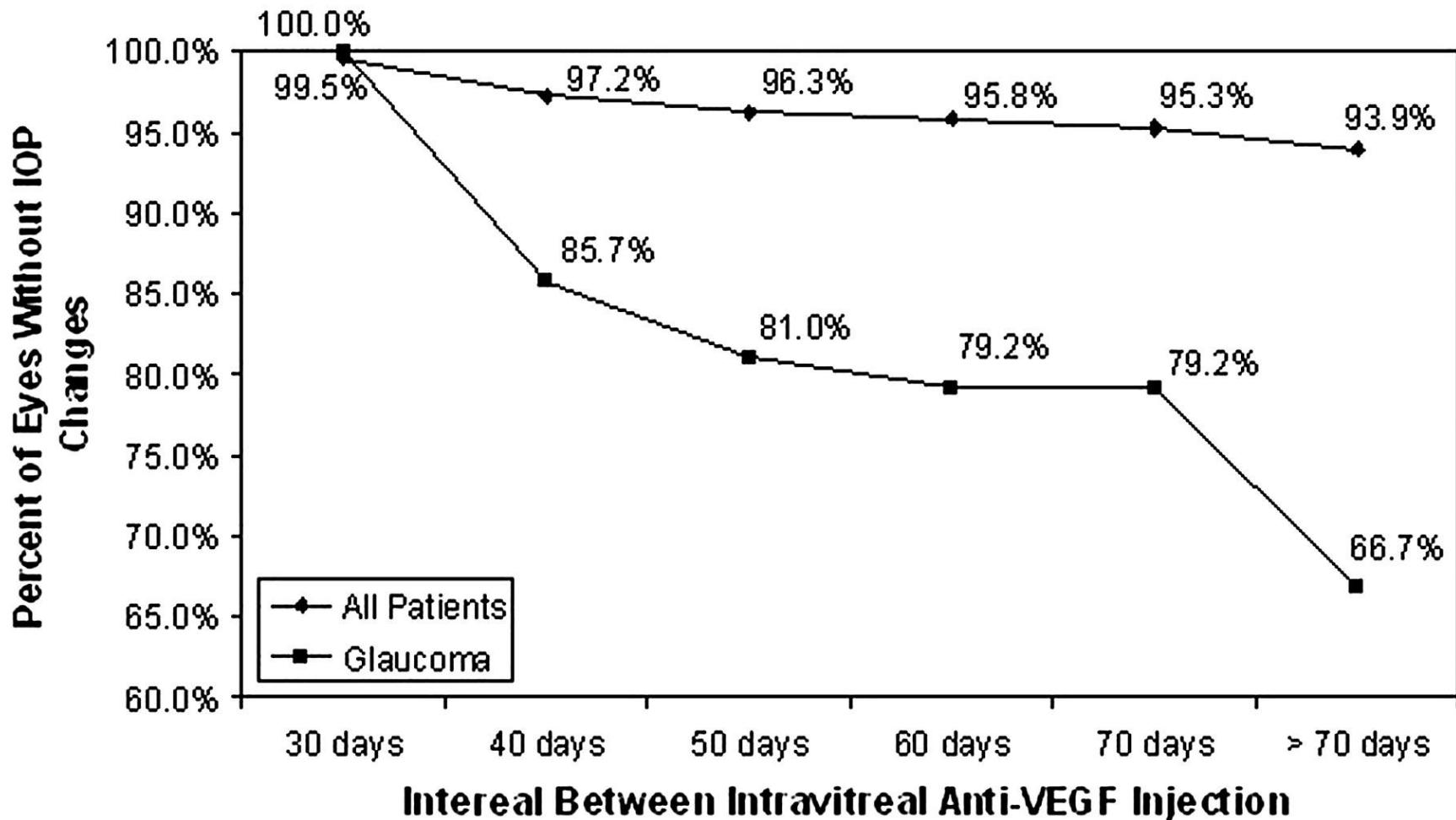


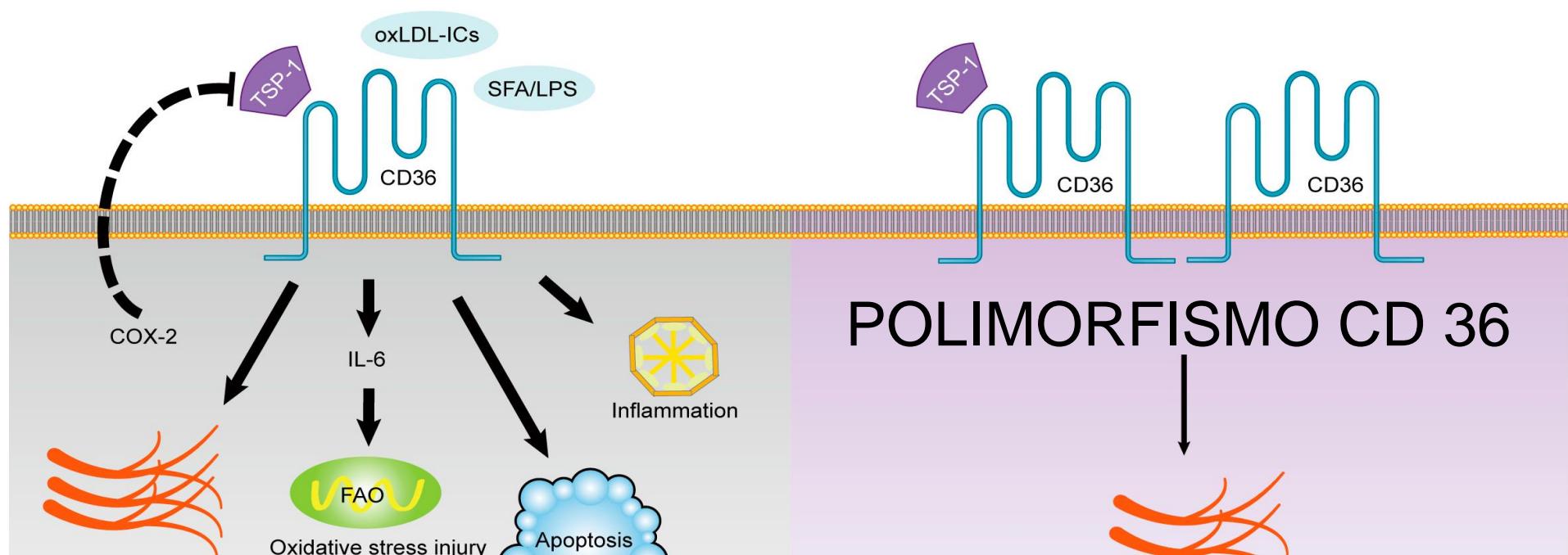


ANTI VEGF

I PAZIENTI GLAUCOMATOSI PRESENTANO UNA CRITICITA' CLINICA SPECIFICA

Kaplan Meier Survival Curves for Sustained IOP Elevation - All Patients vs. Glaucoma Subgroup

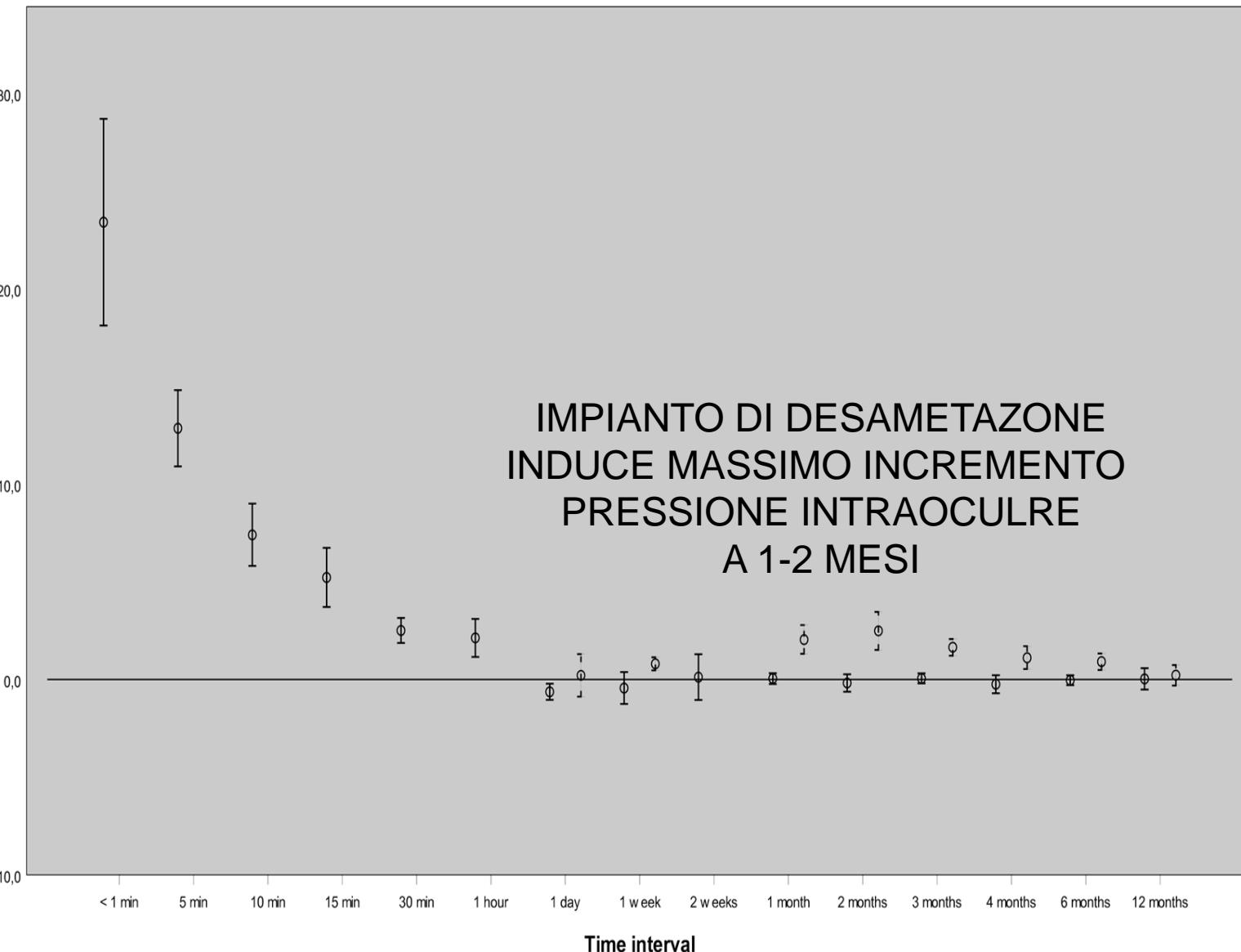




- » Immediately following an injection of ranibizumab, nearly 90 percent of eyes have been reported to have an intraocular pressure of > 30 mmHg.
- » A recent analysis of the IRIS registry found a small and probably not clinically significant decrease in IOP from anti-VEGF injections over time, but a small percentage of patients had an IOP increase that could be clinically significant.
- » Research has suggested that the rise in IOP may be related to anti-VEGF interaction with nitric oxide physiology and/or three polymorphisms of the CD36 gene.
- » Further clinical studies are needed to better understand the mechanism responsible for chronic IOP increases after anti-VEGF injections.

**IMPIANTO DI DESAMETAZONE
INDUCE MASSIMO INCREMENTO
PRESSIONE INTRAOCULARE
A 1-2 MESI**

Weighted Mean Difference in IOP with 95% Confidence Interval



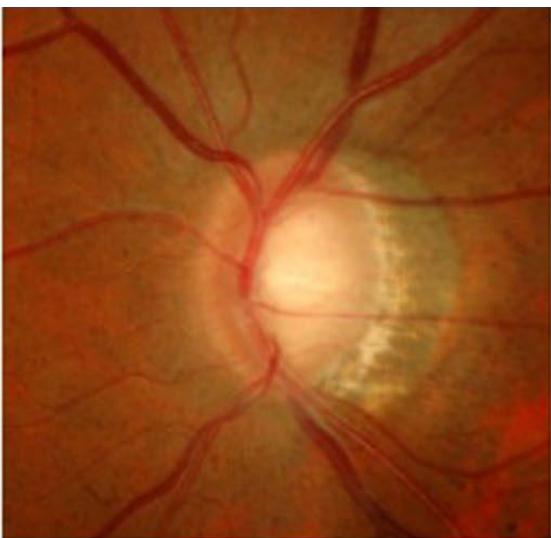
Injected medication

I anti-VEGF

□ dexamethasone implant

N (studies)	15	11	10	6	19	7	18	6	10	4	5	17	21	5	8	16	16	4	5	15	20	4	7
N (eyes)	943	388	562	163	1134	368	1196	263	411	613	248	562	1535	225	869	546	1291	208	166	594	1496	229	974

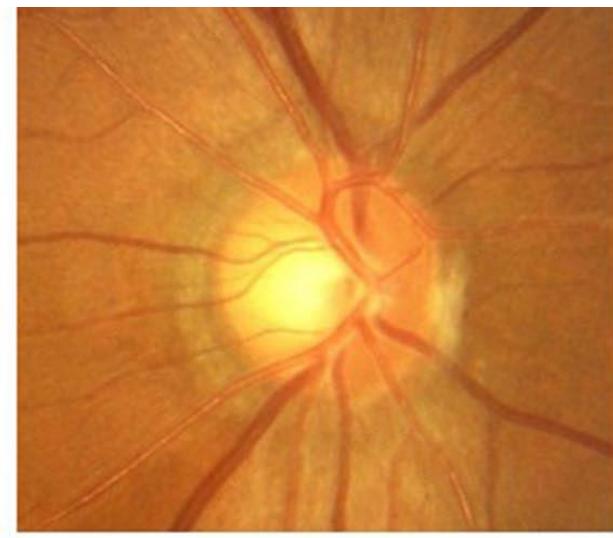
MONITORAGGIO MORFOSTRUTTURALE



Myopic glaucomatous
(MG) disc type



Generalized enlargement
of cup (GE) disc type



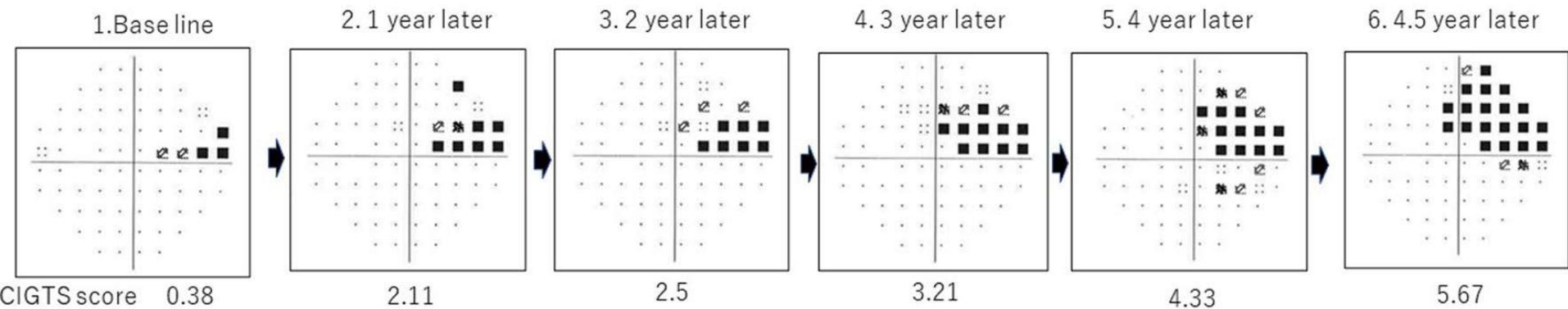
Focal glaucomatous
(FG) disc type

MONITORAGGIO MORFOFUNZIONALE

Example of disc hemorrhage



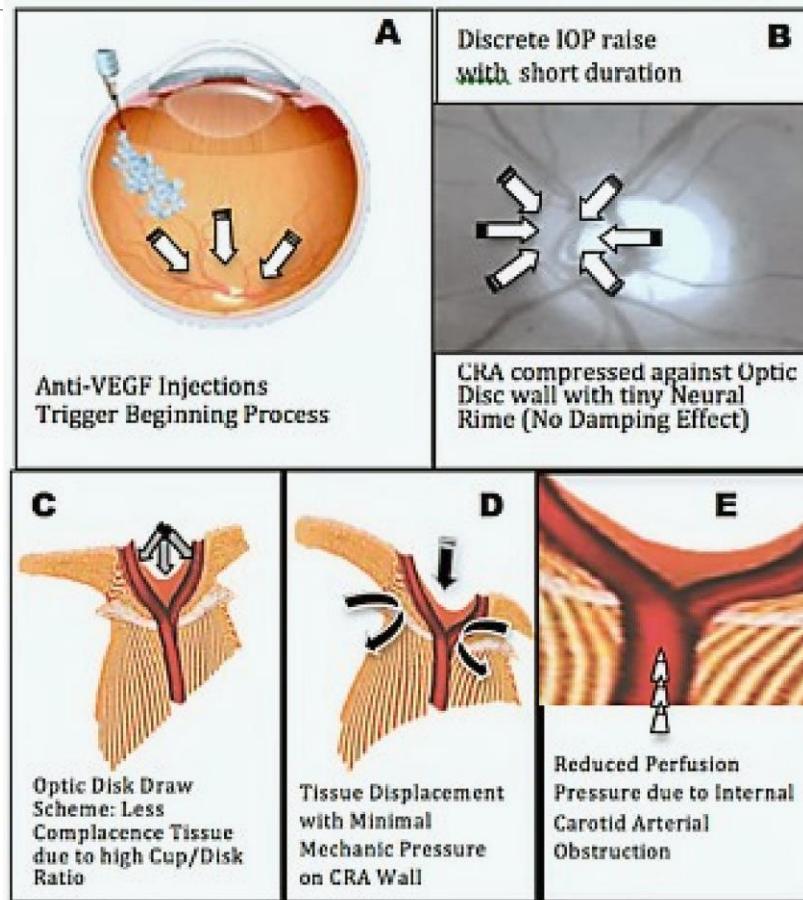
Examples of Visual field deterioration



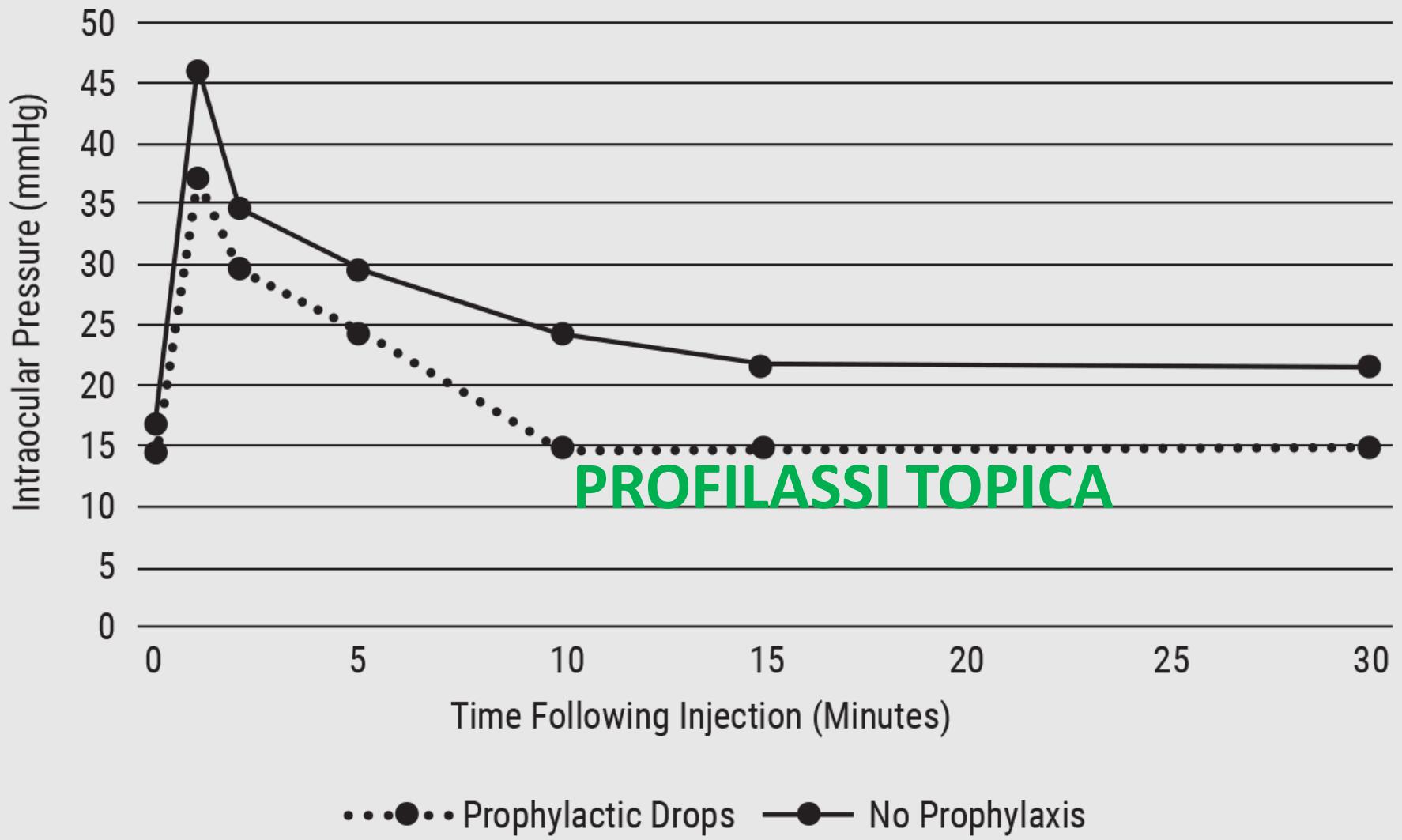
Transient central retina artery occlusion in patients undergoing intravitreal anti vegf injections

Nadyr A Damasceno

CUP/DISC RATIO



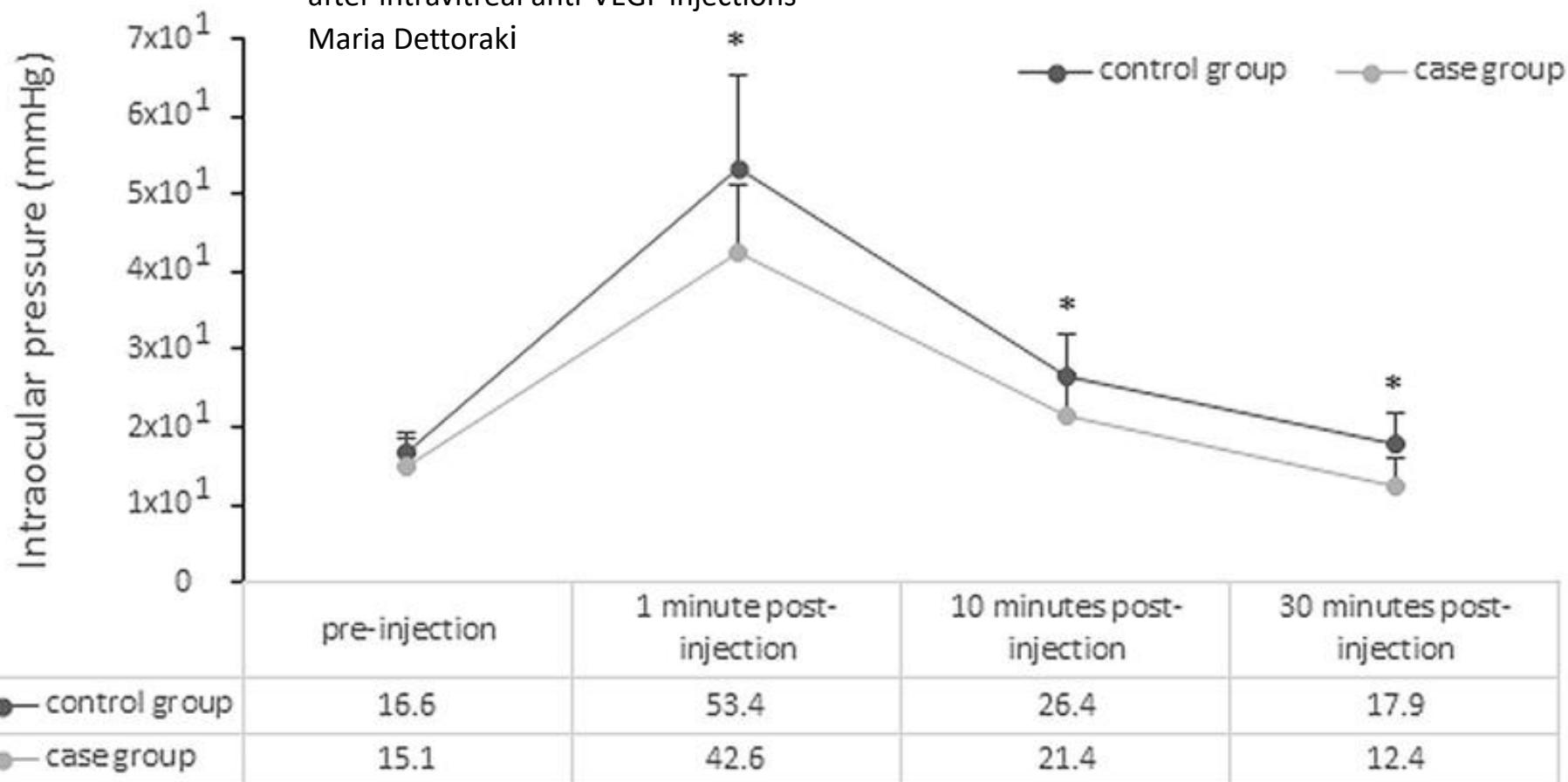
IMPACT OF TOPICAL DROPS GIVEN PRIOR TO INTRAVITREAL ANTI-VEGF INJECTIONS

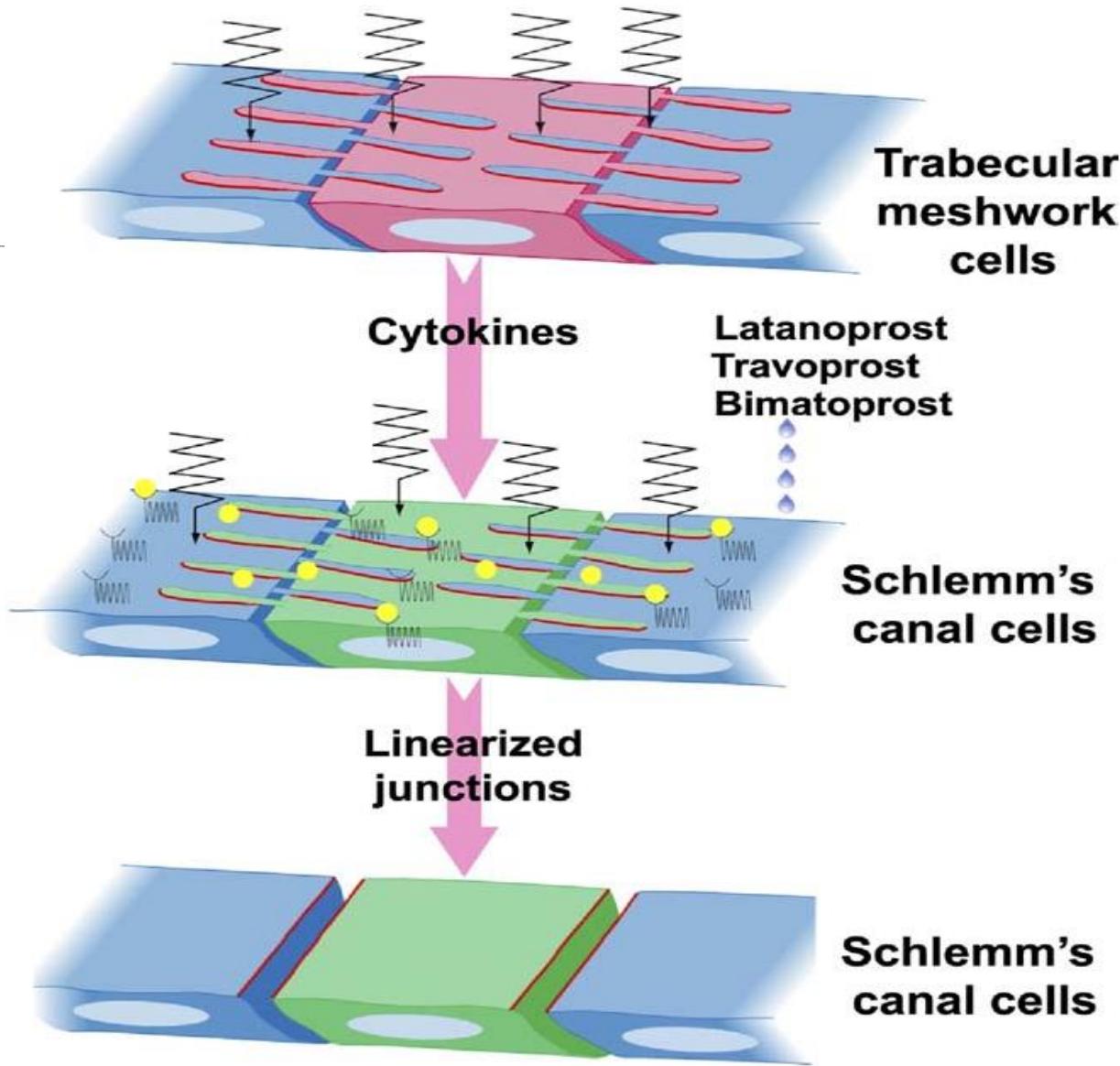


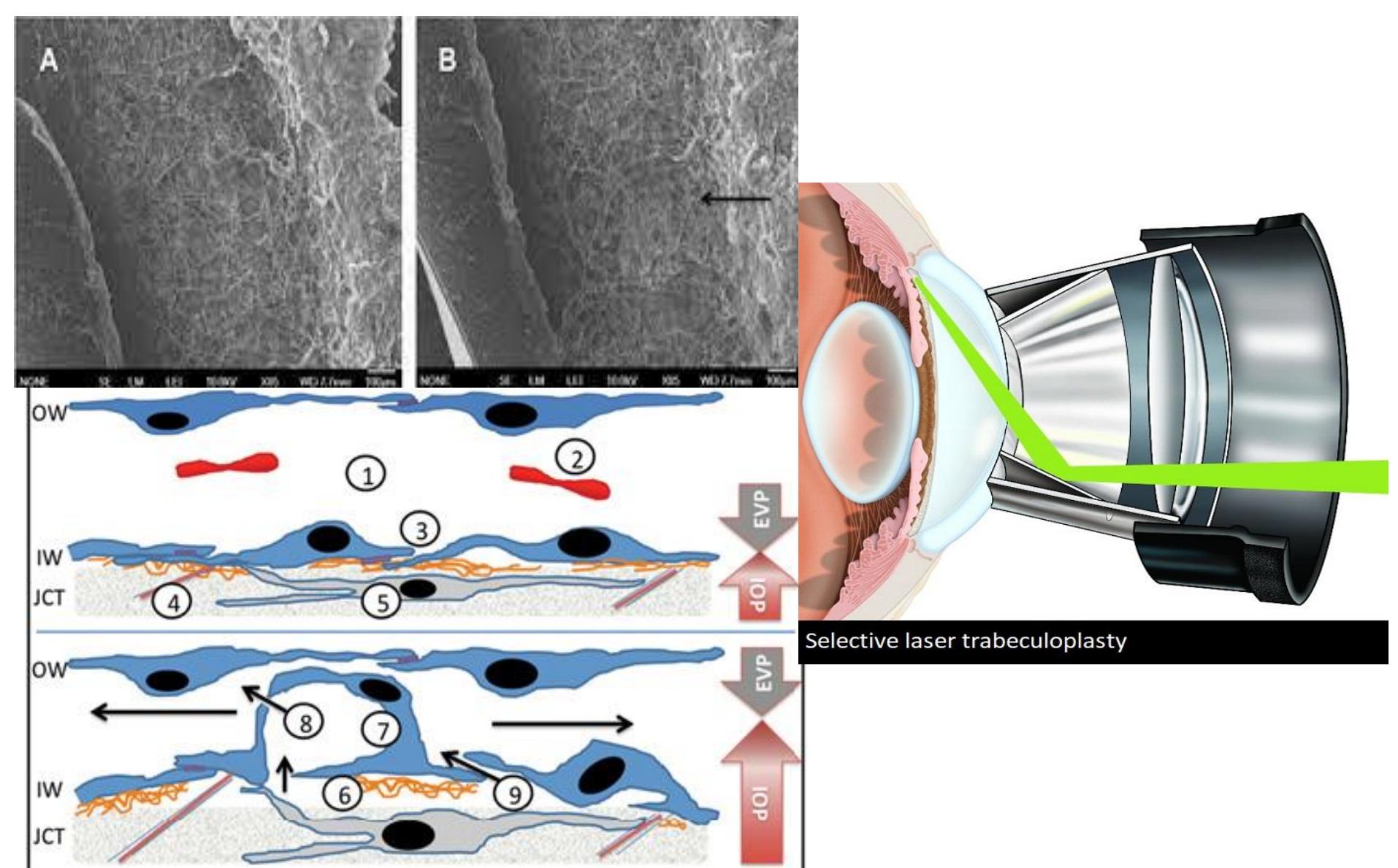
Terapia topica

Effect of brinzolamide–brimonidine fixed combination on intraocular pressure spikes after intravitreal anti-VEGF injections

Maria Dettoraki

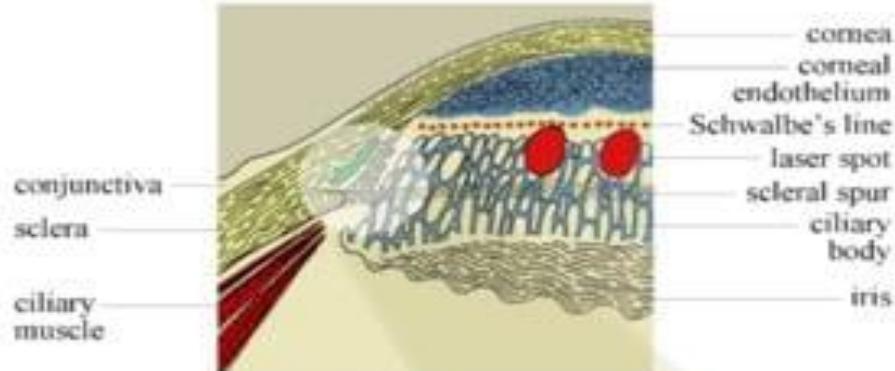




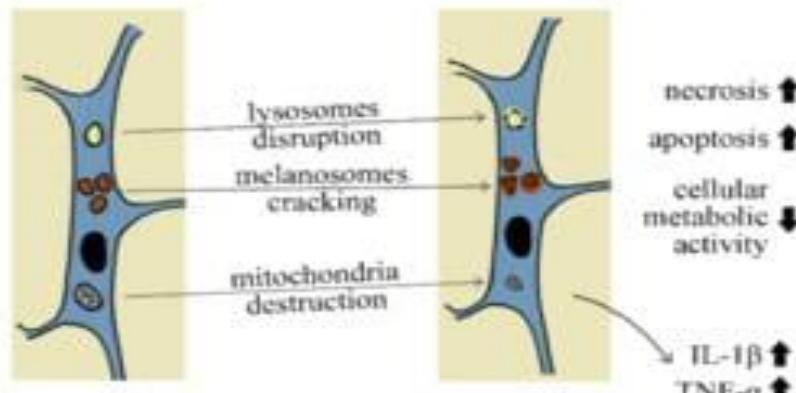


TRABECULOPLASTICA SELETTIVA

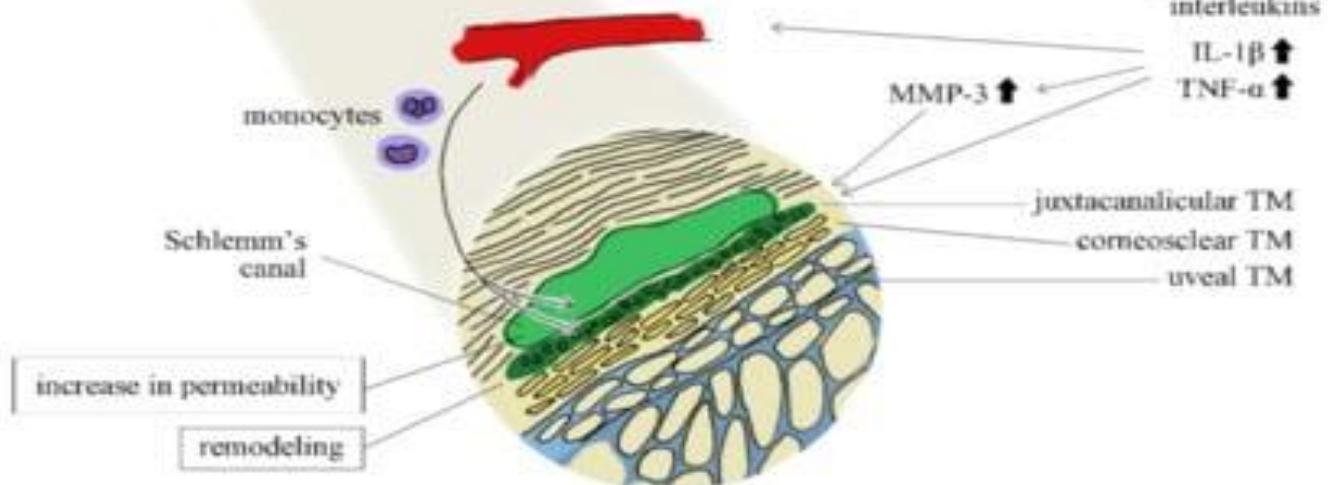
STAGE 1 LASER APPLICATION



STAGE 2 CELLULAR EFFECT

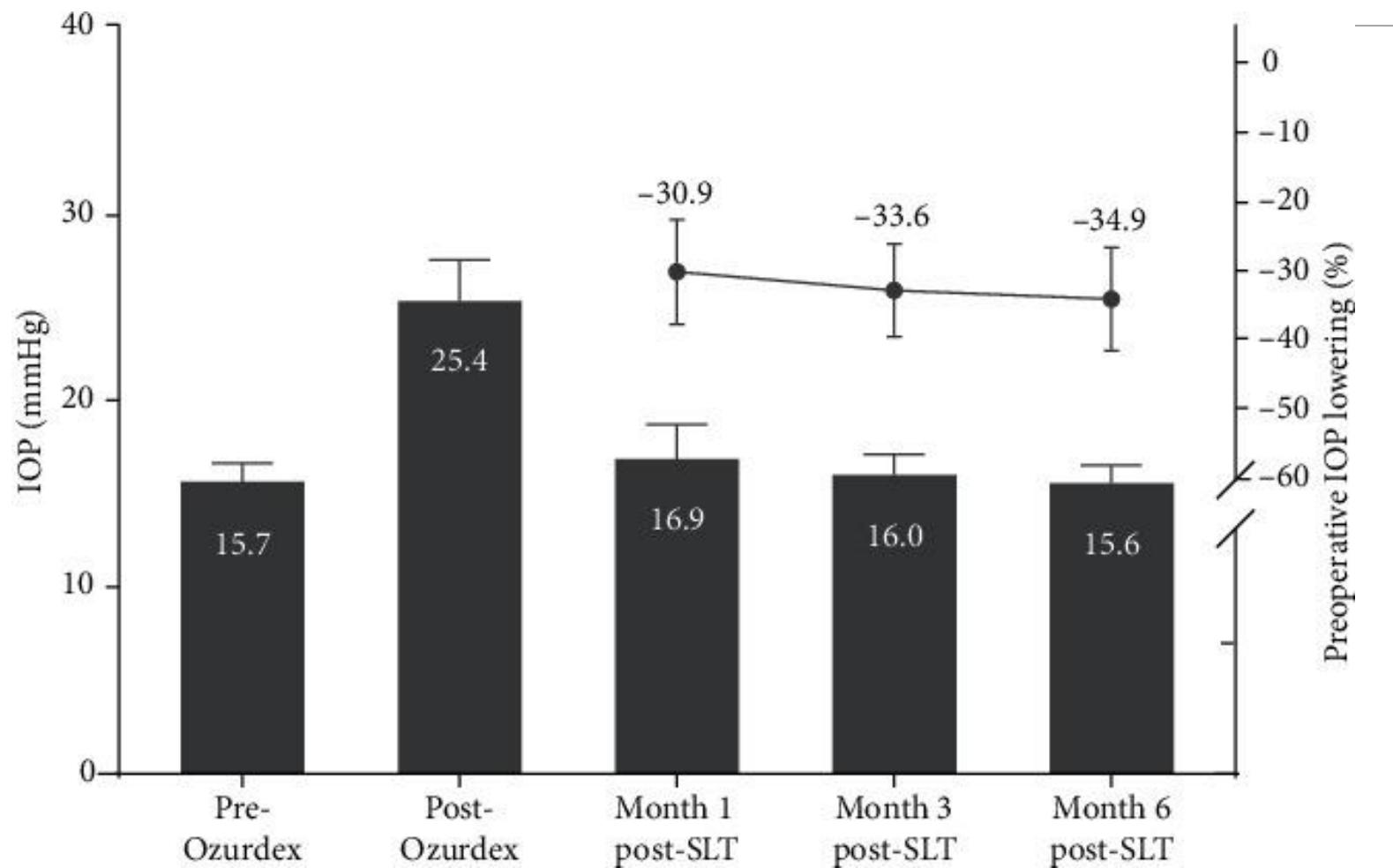


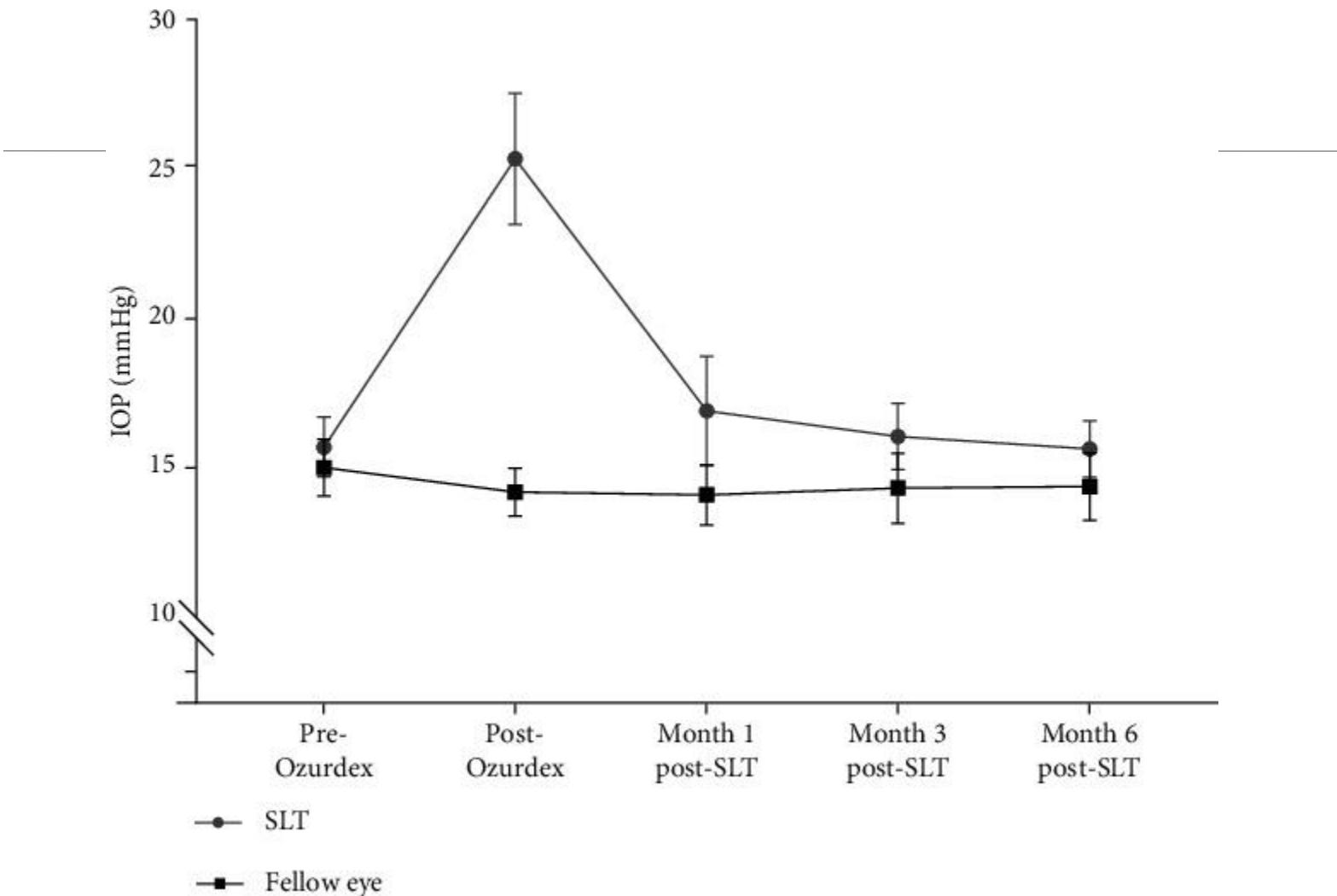
STAGE 3 BIOLOGICAL EFFECT



The Effect of Selective Laser Trabeculoplasty on Intraocular Pressure in Patients with Dexamethasone Intravitreal Implant-Induced Elevated Intraocular Pressure

Amin Bennedjai,





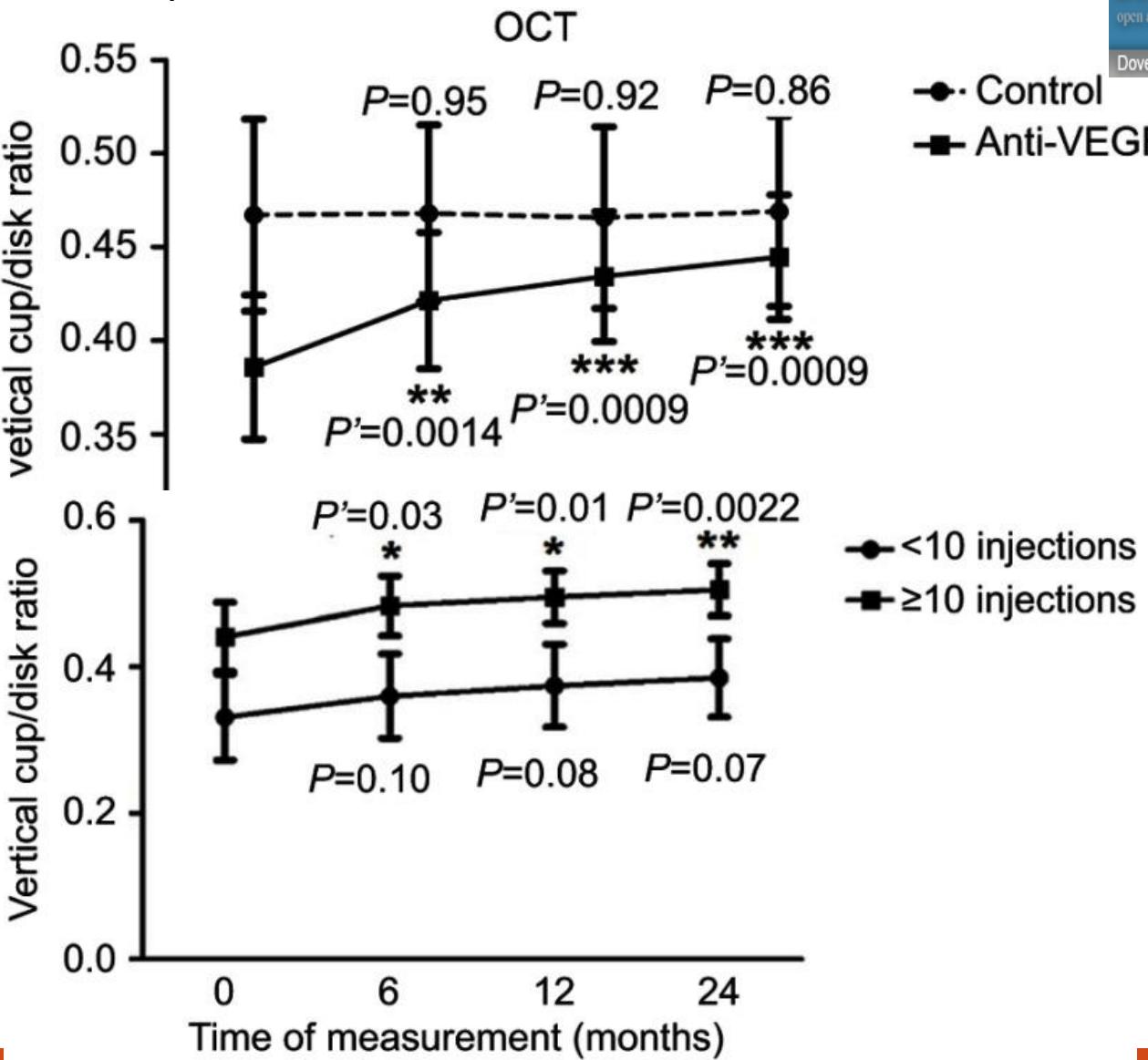
Two-year analysis of changes in the optic nerve and retina following anti-VEGF treatments in diabetic macular edema patients

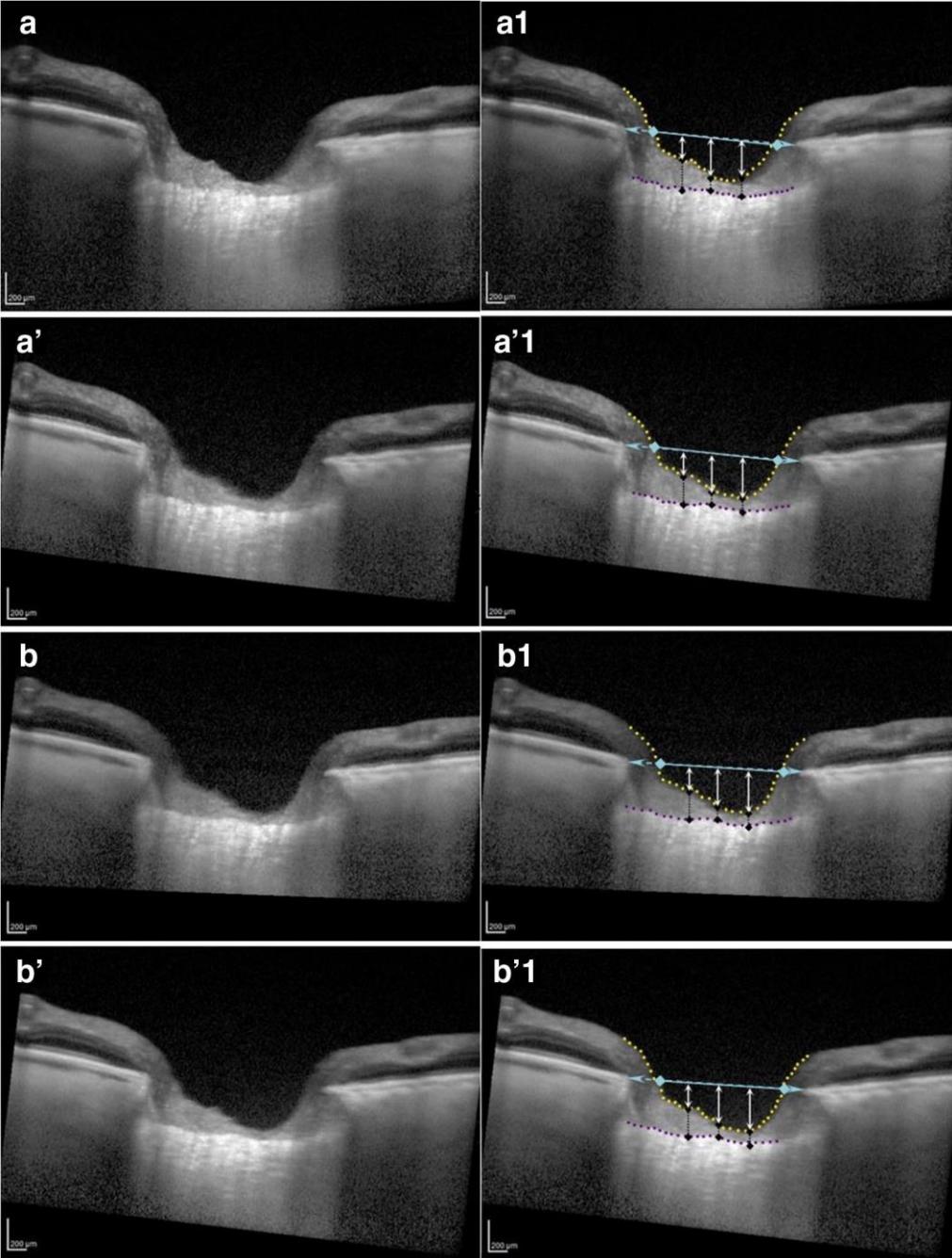
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Irreversible and significant changes were observed in BMO (from 1666 to 1686 μm), inferior CD (from 143 to 156 μm) and inferior PPT (from 180 to 169 μm) after 1 year

Intraocular pressure increase after intravitreal anti-VEGF

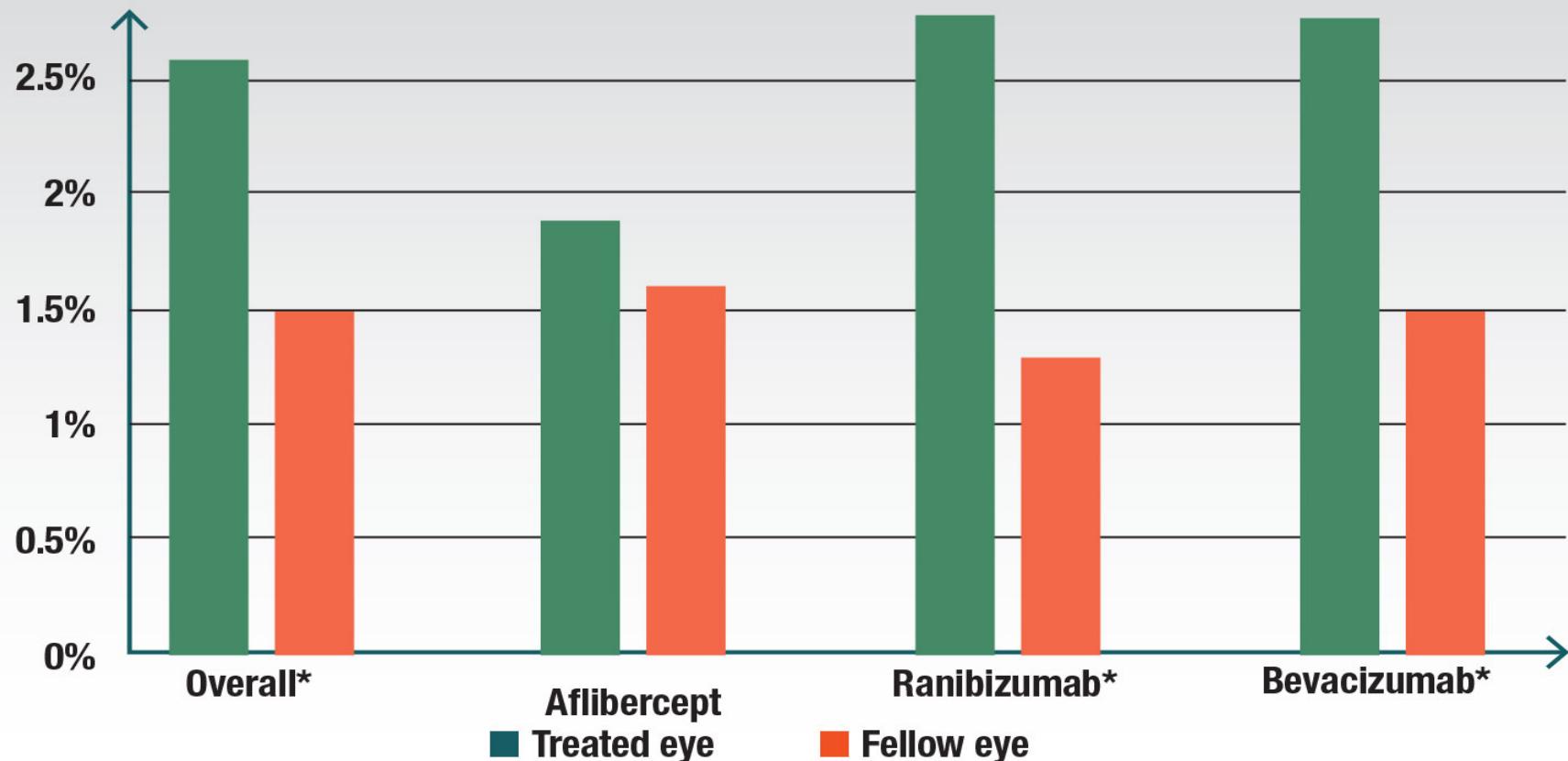


Figure. This graph shows the percentage of patients receiving ≥ 12 intravitreal anti-VEGF injections with a statistically significant intraocular pressure rise in the treated eye in comparison to the fellow untreated eye (*indicates statistically significant difference between treated and fellow eye).

(Adapted from Atchison EA, Wood KM, Mattoz CG, et al. The real-world effect of intravitreous anti-vascular endothelial growth factor drugs on intraocular pressure. Ophthalmology. 2018;125:676-682.).

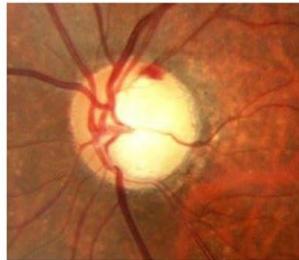
GESTIONE DELL'EDEMA MACULARE NEL PAZIENTE GLAUCOMATOSO

GESTIONE DEL GLAUCOMA NEL PAZIENTE CON EDEMA MACULARE

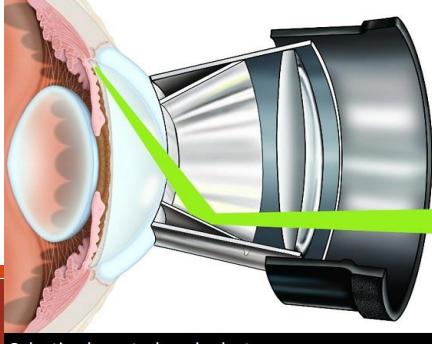
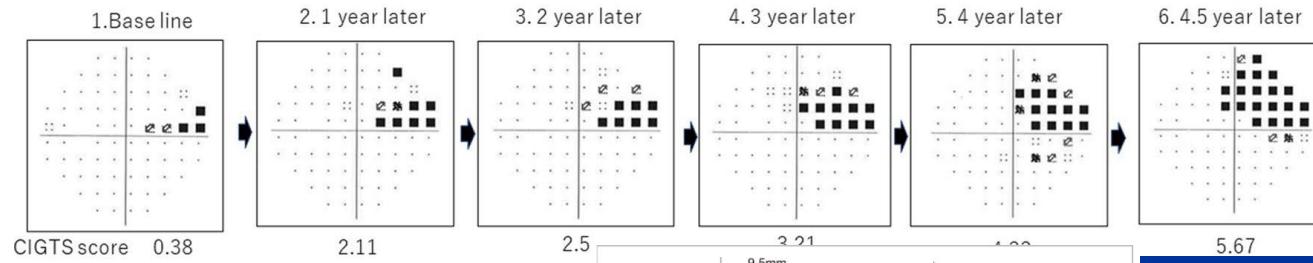
- I PAZIENTI GLAUCOMATOSI AFFETTI DA EDEMA MACULARE COSTITUISCONO UNA VARIABILE CLINICA CON ELEMENTI DI CRITICITA' A LIVELLO DELLE OPZIONI TERAPEUTICHE
- I PAZIENTI GLAUCOMATOSI DEVONO RICEVERE ADEGUATA PROFILASSI, MONITORAGGIO E TERAPIA TOPICA , PARACHIRURGICA ED EVENTUALMENTE CHIRURGICA
- LA PRESENZA DEL GLAUCOMA NON DEVE RIDURRE LE CHANCE DI TRATTAMENTO DELL'EDEMA MACULARE



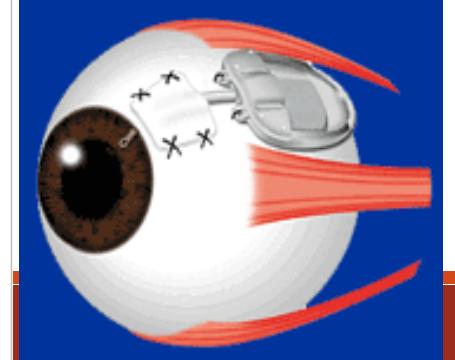
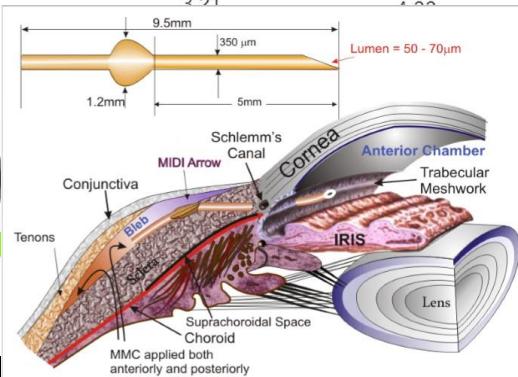
Example of disc hemorrhage



Examples of Visual field deterioration



Selective laser trabeculoplasty



GRAZIE PER L'ATTENZIONE

