On behalf of Vision Expo, we sincerely thank you for being with us this year.

Vision Expo Has Gone Green!

We have eliminated all paper session evaluation forms. Please be sure to complete your electronic session evaluations online when you login to request your CE Letter for each course you attended! Your feedback is important to us as our Education Planning Committee considers content and speakers for future meetings to provide you with the best education possible.



disclosures

last 12 months

allergan/abbvie sun pharma tarsus pharma Ocuphire Bruder Scope last 12 months

sydnexis
eyenovia bio
laboratoires Thea
visus/tenpoint
therapeutics
Harrow

last 12 months

aperta biosciences
astareal, inc.
azura ophthalmics
aldeyra therapeutics
Vyluma
Lenz

[&]quot;All relevant relationships have been mitigated."

Drugs of the future

milton m. hom eyemage@mminternet.com Azusa, CA

Drugs of the future

milton m. hom eyemage@mminternet.com Azusa, CA

Where will the next blockbuster drug come from?

Three frontiers

Dry eye & neuroinflammation

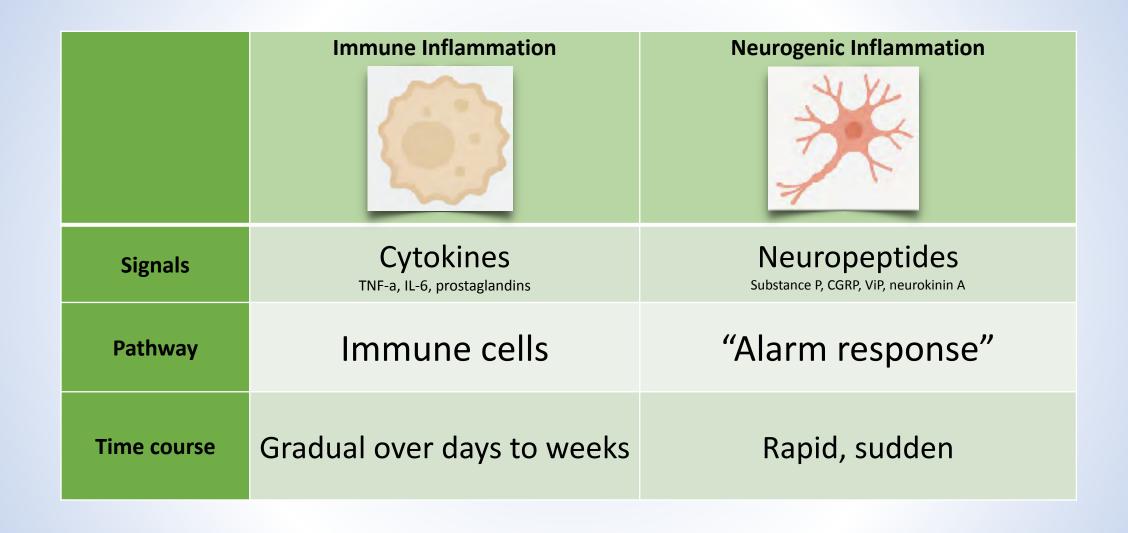
Myopia control

Demodex & blepharitis

Dry eye

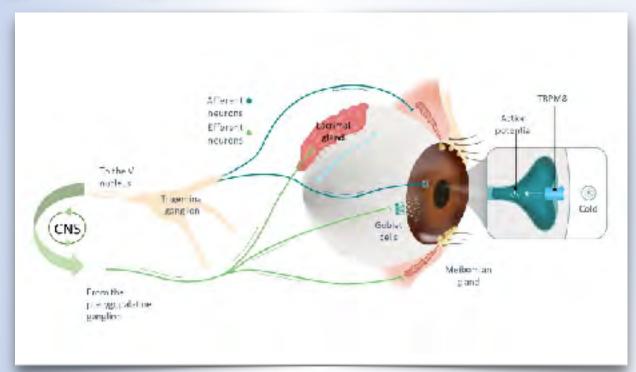
Neurology is the new dry eye frontier

Company	Drug	MOA	Indication	FDA
Alcon	Acoltremon	TRP channels Cold receptors	Dry eye	Approved
Aldeyra/ AbbVie	Reproxalap	RASP trap TRP channels	Dry eye/ Allergic conjunctivitis	Phase 3
Okyo	Urcosimod	Anti- inflammatory Neurogenic inflammation	Dry eye/ Neuropathic pain	Phase 2





TRP channels switches on neurogenic inflammation







Cools inflammation Increases tear volume

Activates inflammation
Pain burning stinging photophobia

Rx only

TRYPTYR® (acoltremon ophthalmic solution) 0.003% For topical application in the eye

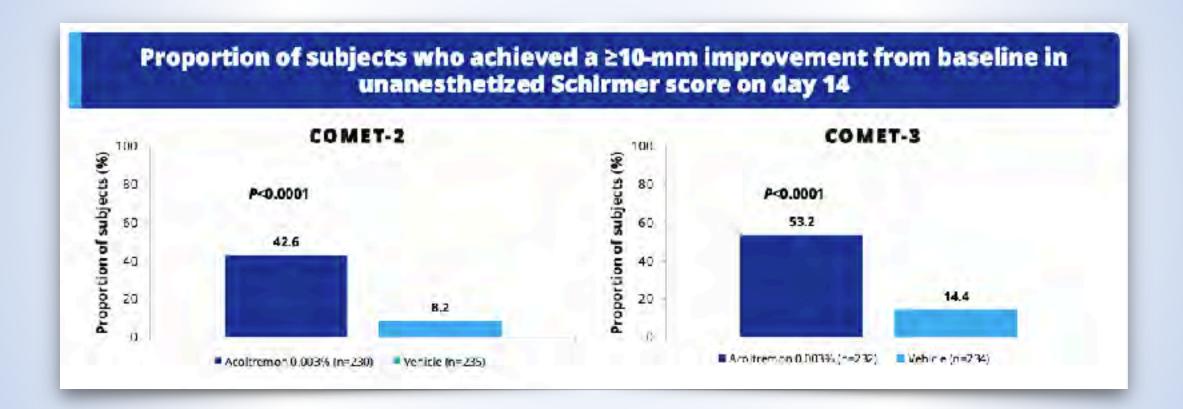
60 SINGLE-DOSE VIALS . 30-DAY SUPPLY

Does not contain anti-microbial preservatives Sterile

inicentale or suspension raminoste tennistes

Small Sure Indiana. Un Printers butters bug fein in in

Alcon



Dry eye

GoodRx \$900

Rx only

TRYPTYR® (acoltremon ophthalmic solution) 0.003%

For topical application in the eye

60 SINGLE-DOSE VIALS . 30-DAY SUPPLY

Does not contain anti-microbial preservatives Sterile

Alcon

THE RESIDENCE IN de project THE PERSON to double and THE REAL PROPERTY. train street, A PRINT DO BUILD

back fein retain.

Dryeye

Drug	Good Rx	
Cequa	\$645.80	
Restasis	\$660.30	
Xiidra	732.59	
Meibo	\$853.21	
Tryptyr	\$900	

Dry eye







Click to see full view

Brand: Wonderland Herbs

Cooling Agent WS12, CAS 68489-09-8, Purity 99%, 100g

Search this page

Price: \$94.00

Business Price ➤ \$89.30

You Save: \$4.70 (5%)

Or \$15.40 /mo (6 mo). Select from 2 plans

Up to 19% off if you qualify Shop items >

Wonderland Herbs Brand

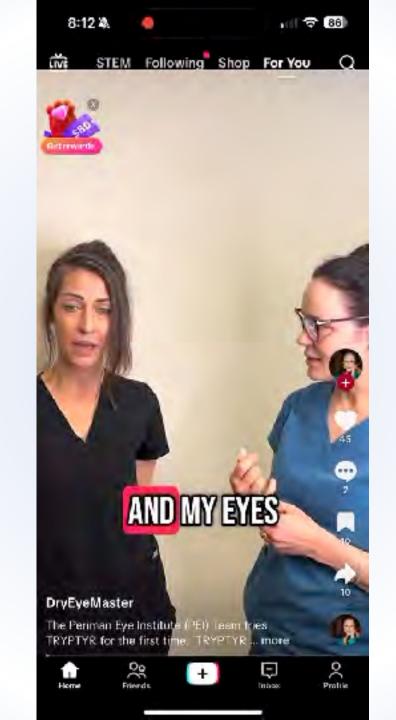
Percentage assay 99

Manufacturer WonderLand Herbs

UPC 744173960159

Report an issue with this product or seller

About the product Reviews and Q&A



	COMET-2		COMET-8	
	Acoltremon 0.005% n=250	Vehicle re-255	Acoltrem on 9.003% n=232	Vehicle n=234
Number of serious ocular TEAEs	Ò	0	0	0
Study discontinuation rate (%)	8.7	9.4	7.3	6.B
Percentage of subjects discontinuing study due to any TEAE (%)	1.3	13	2.2	2.1
Number of ocular TEAEs >2.5%		1		1
Incidence of burning or stinging (%)	53.0	3.8	50.9	2.6
Percentage of burning or stinging rated as mild in severity (%)	30.4	100.0	يانون	100.0
Number of subjects discontinuing study due to burning/stinging	ò	0	2	ō

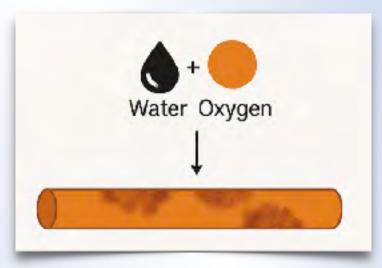
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Aldeyra/ AbbVie	Reproxalap	RASP trap TRP channels	Dry eye/ Allergic conjunctivitis	Phase 3
Okyo	Urcosimod	Anti- inflammatory Neurogenic inflammation	Dry eye/ Neuropathic pain	Phase 2

Reproxalap

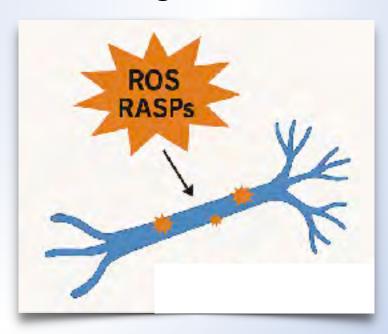
inflammation

Oxidative stress by RASPs (biological rust)
Causes misfiring and sparks
Activates neurogenic

Rust



Biological Rust

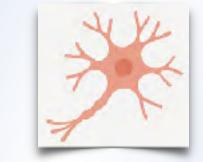


Reproxalap binds RASPs and repairs and protects nerves



Urcosimod

Neurogenic



Calms fibers

Neurogenic:

Quiets down nociceptors Stops/slows release of neuropeptides

Immune



Immune:

Stops/slows macrophage, dendritic and T-cells cytokine release

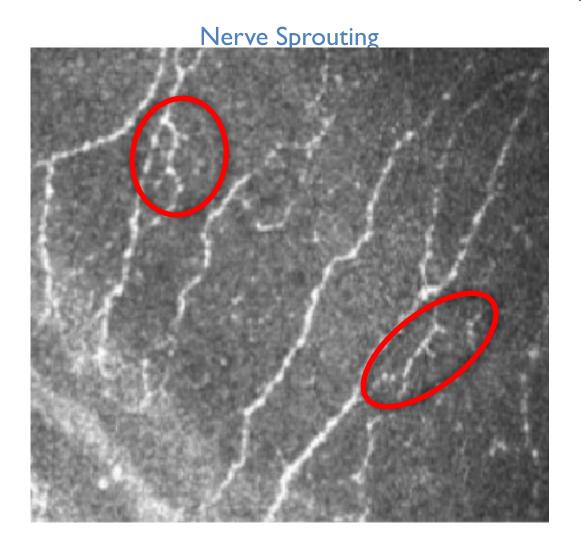
Reduces cytokines

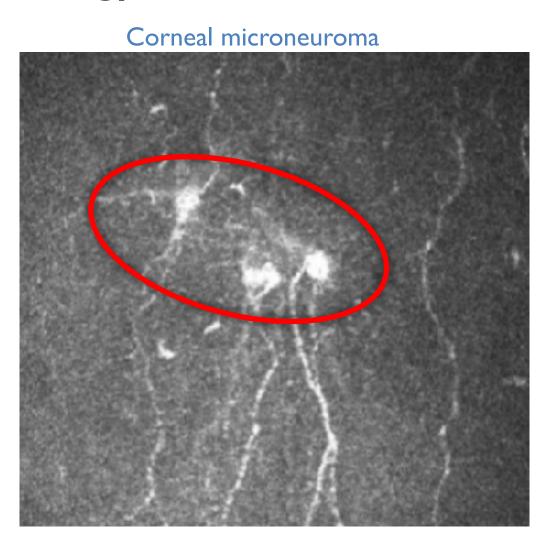
Summary

- Acoltermon = cools nerves & tear stimulation
- Reproxalap = "biological rust" protection → less nerve misfires & neurogenic inflammation
- Urcosimod = nerve calming + immunebased anti-inflammatory

Central vs peripheral

Alterations in nerve morphology





Neuropathic pain & dry eye





https://www.apma.org/neuromas

NASA Study

Neurosensory Abnormalities in SymptomAtic Ocular Surface Patients (NASA)

1000 patients

Proparacaine Challenge Test

Participants diagnosed with neuropathic corneal pain with ocular surface discomfort

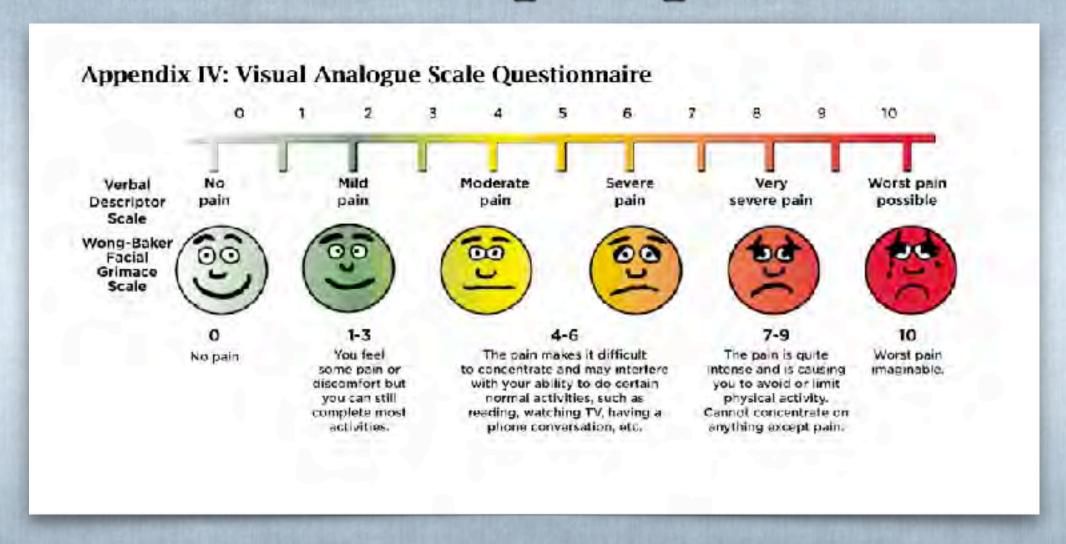
Establish the prevalence of neuropathic corneal pain in patients with ocular surface discomfort

Proparacaine challenge

- 1. Baseline pain reading
- 2.Add drop anesthesia (proparacaine)
- 3. Wait 90 seconds
- 4. Proparacaine pain reading

Dieckmann G, Goyal S, Hamrah P. Neuropathic corneal pain: approaches for management. Ophthalmology. 2017;124(11 Suppl):S34-S47.

Central vs peripheral



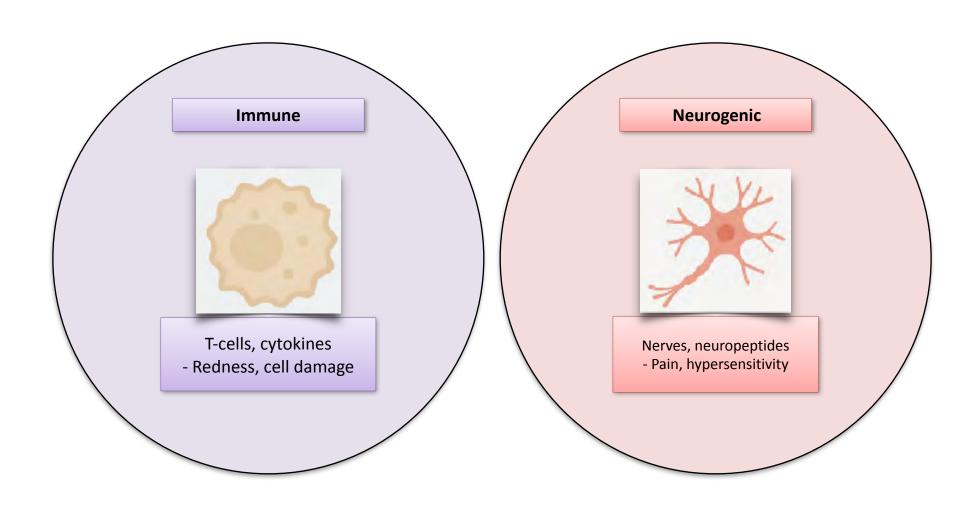
Dieckmann G, Goyal S, Hamrah P. Neuropathic Corneal Pain: Approaches for Management. Ophthalmology. 2017;124(11S):S34-S47. doi:10.1016/j.ophtha.2017.08.004

Neuropathic pain & dry eye

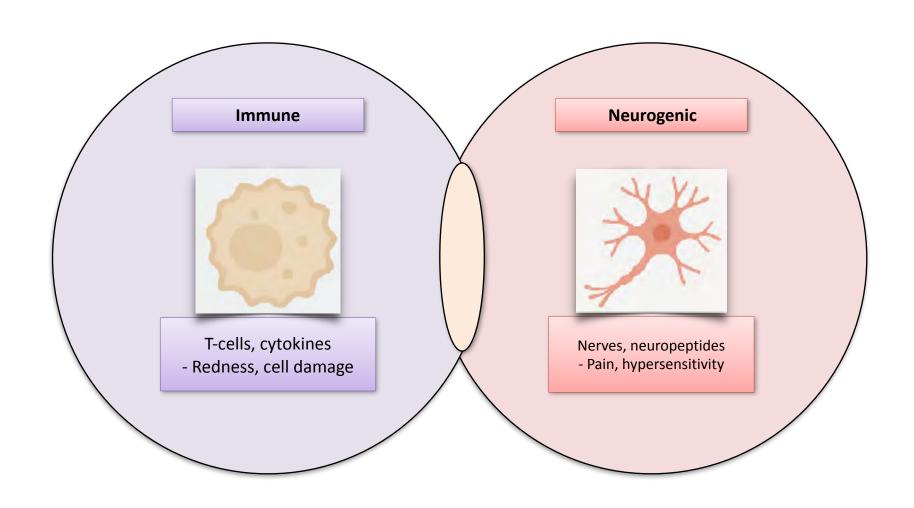
"in our study, 27 out of 33 (81.82%) patients showed mixed sensitization"

Kim J, Yoon HJ, You IC, Ko BY, Yoon KC. Clinical characteristics of dry eye with ocular neuropathic pain features: comparison according to the types of sensitization based on the Ocular Pain Assessment Survey. BMC Ophthalmol. 2020 Nov 18;20(1):455. doi: 10.1186/s12886-020-01733-1. PMID: 33208127; PMCID: PMC7672944.

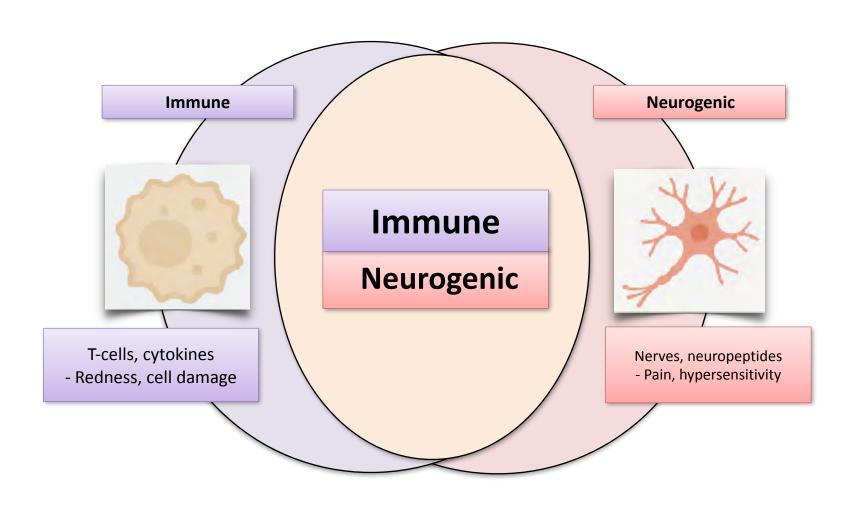
Immune-Mediated vs Neurogenic Inflammation



Immune-Mediated vs Neurogenic Inflammation



Immune-Mediated vs Neurogenic Inflammation



New generation of dry eye drugs Major Shift

From surfacelubrication



To nerve inflammation

Thoughts & Pearls

Dry eye: Neurology is the new dry eye The new drugs treat the nerves There are 2 types of inflammation in dry eye: classic immune based and neurogenic. Most dry eye has both types Especially for severes, consider treating both types of inflammation (add cyclosporine/lifitigrast/loteprednol) Hypersensitive nerves - these drugs will hurt

"almost 1 billion people will have high myopia, suggesting an alarming increase of prevalence globally."

Wu PC, Chuang MN, Choi J, Chen H, Wu G, Ohno-Matsui K, Jonas JB, Cheung CMG. Update in myopia and treatment strategy of atropine use in myopia control. Eye (Lond). 2019 Jan;33(1):3-13. doi: 10.1038/s41433-018-0139-7. Epub 2018 Jun 11. PMID: 29891900; PMCID: PMC6328548.

"studies have found that the lack of outdoor exposure to sunlight and limited physical activities can trigger [myopia]"

Kevin Chan

Chan K, Fischer A, Goldberg L, Lazar I. Today's Perspectives on Myopia Management. Modern Optometry. 2024 July/Aug. He X, Sankaridurg P, Wang J, et al. Time outdoors in reducing myopia. Ophthalmol. 2022;129(11):1245-1254.

"For better or worse, screen time is here to stay. I educate parents to encourage their children to spend as much time outdoors as possible, as this can delay the onset of myopia"

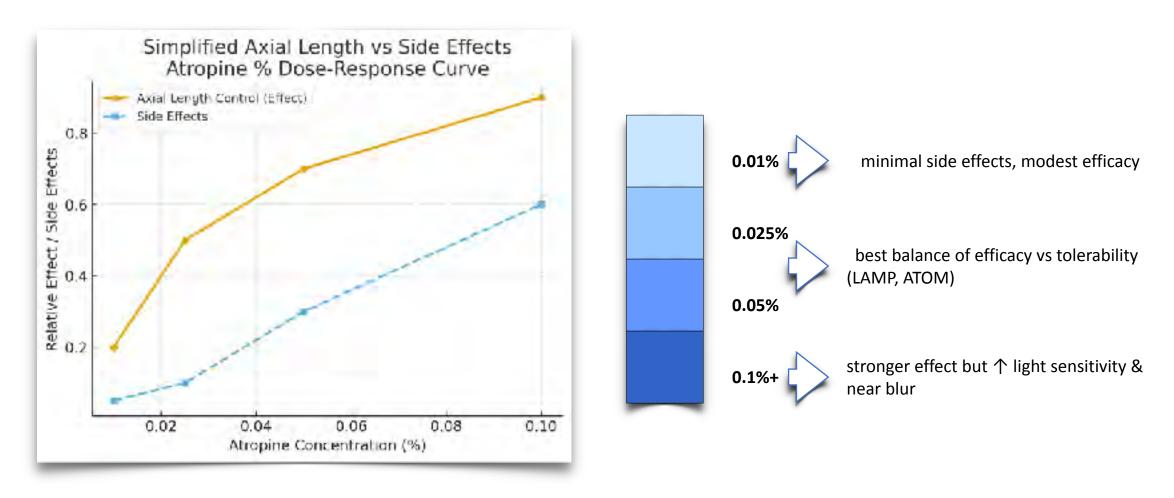
Andrew Fischer

Chan K, Fischer A, Goldberg L, Lazar I. Today's Perspectives on Myopia Management. Modern Optometry. 2024 July/Aug. He X, Sankaridurg P, Wang J, et al. Time outdoors in reducing myopia. Ophthalmol. 2022;129(11):1245-1254.

Outdoor time = Nature's atropine Encourage outdoor play

Selected Clinical trials Length Route Ages % atropine Vyluma Drop 3-17y **3**y 0.01% 0.02% (Nevakar) 0.1% 0.01% 3-12y 3y Eyenovia Optejet **Sydnexis** 0.01% 3-14y 3y+1y Drop

Atropine % Gradient: Axial Length vs Side Effects



References:

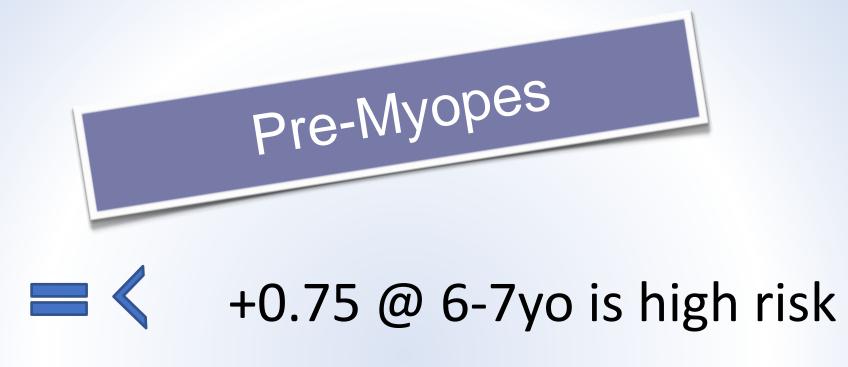
- 1. Chia A, Lu QS, Tan D. Five-Year Clinical Trial on Atropine for the Treatment of Myopia 2: Myopia Control with Atropine 0.01% Eyedrops. Ophthalmology. 2016;123(2):391-9.
- 2. Yam JC, Li FF, Zhang X, Tang SM, Yip BHK, Kam KW, et al. LAMP Study: 3-Year Results. Ophthalmology. 2020;127(7):910-918.
- 3. Wu PC, Choy BN, Chiu MY, Chen LJ, Tan Q, Kang MT, et al. Update in myopia and atropine use. Eye (Lond). 2019;33(1):3-13.

When to start?

International Myopia Institute (IMI)

Age (years)	Refraction
6	+0.75 D or less
7 to 8	+0.50 or less
9 to 10	+0.25 D or less
11	emmetropia

Gifford KL, Richdale K, Kang P, Aller TA, Lam CS, Liu YM, Michaud L, Mulder J, Orr JB, Rose KA, Saunders KJ, Seidel D, Tideman JWL, Sankaridurg P. IMI - Clinical Management Guidelines Report. Invest Ophthalmol Vis Sci. 2019 Feb 28;60(3):M184-M203. doi: 10.1167/iovs.18-25977. PMID: 30817832.



- Independent of family history, ethnicity and other optical and environmental factors.⁷
- Fastest change in refraction is year before onset.
- Watch for eso and lag of accommodation

"The decision to initiate myopia management is therefore very simple—initiate treatment when myopia is first diagnosed."

Daniel Tillia

Tillia D. When to Initiate Myopia Management Intervention and When to Stop. Review of Myopia Management. https://reviewofmm.com/when-to-initiate-myopia-management-intervention-and-when-to-stop/

Spectacle Myopia Control			
	Tech	Duration	% Reduction
MiyoSight (Hoya)	Defocus incorporated multiple segments (DIMS)	2y	Diopters: 52% Axial: 62%
Stellest (Essilor)	Highly aspherical lenslet target (HALT)	2y	Diopters: 67% Axial: 60%
SightGlass	Diffusion optics technology (DOT)	1y (36m)	Diopters: 74%/59% Axial:50%/33%

Lam C.S.Y., Tang WC, Tse DY, Lee R.P.K., Chun R.K.M., Hasegawa K, et al. Defocus Incorporated Multiple Segments (DIMS) spectacle lenses slow myopia progression: a 2-year randomised clinical trial. Br J Ophthalmol. 2019.

Black K. Essilor's Reveals Results of "Game-changing" Stellest Lens for Myopia https://www.mivision.com.au/2020/09/essilors-reveals-results-of-game-changing-stellest-lens-for-myopia/. mivision; 2020.

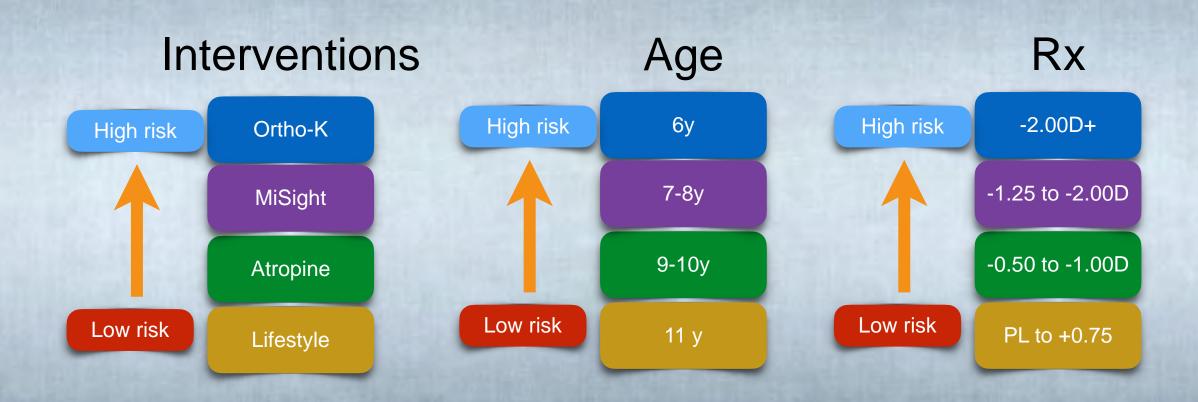
Rappon J, Chung C, Young G, et al Control of myopia using diffusion optics spectacle lenses: 12-month results of a randomised controlled, efficacy and safety study (CYPRESS) British Journal of Ophthalmology Published Online First: 01 September 2022.

Suggested 1st choice interventions

Brianna Rhue Milton Hom

Age	PL to +0.75D	-0.50 to -1.00D	-1.25 to -2.00D	-2.00D+
6y	Lifestyle Prophylactic Atropine*	Atropine* MiSight* Cylinder: Biofinity Toric MF D Lens +2.50	MiSight* Ortho-K*	MiSight* Ortho-K* ? Combo Therapy
	PL to +0.50D	-0.50 to -1.00D	-1.25 to -2.00D	-2.00D+
7-8y	Lifestyle Prophylactic Atropine*	Atropine* MiSight	MiSight Ortho-K	MiSight Ortho-K
	PL to +0.25D	-0.50 to -1.00D	-1.25 to -2.00D	-2.00D+
9-10y	Lifestyle	Atropine* Misight	MiSight Ortho-K	MiSight Ortho-K
	emmetropia	-0.50 to -1.00D	-1.25 to -2.00D	-2.00D+
11y	Lifestyle	Atropine* Misight	MiSight Ortho-K	MiSight w/Ortho-K

Grid



Thoughts & Pearls

Myopia: Earlier the better
Main challenge is convincing the parents
Race against time
Sydnexis will be a starter drug
Atropine works best with other therapies/interventions
Ortho-K has gotten a lot easier

Demodex

The basics

The Good Mites

Reports of Demodex mites were recorded as early as 1841

Demodex mites exist in every adult over 70 years old.

Symptoms: ocular dryness, severe itching, burning, foreign body sensation, crusting and redness of the lid margin, and blurry vision.

https://www.rosacea.org/patients/the-ecology-of-your-face-demodex-rosacea-and-you Hom MM, Mastrota KM, Schachter SE. Demodex. Optom Vis Sci. 2013 Jul;90(7):e198-205.

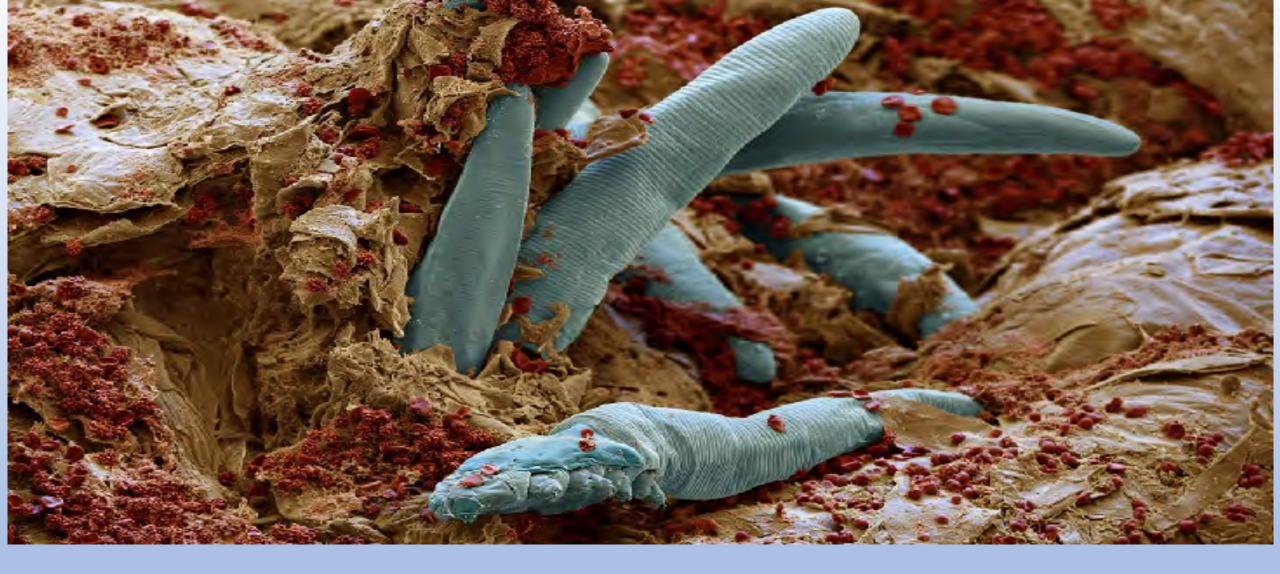
The Good Mites

"the willingness of the mites to reproduce is great"

"Consider the scrambling of this...[demodex] mob while the [human] host sleeps: males seeking, finding, breeding females; [pregnant] females seeking new follicles; inhabitants of follicles sweeping feces outside."

Coston TO. Demodex folliculorum blepharitis. Trans Am Ophthalmol Soc. 1967;65:361-92. PMID: 4229846; PMCID: PMC1310279.

Hom MM, Mastrota KM, Schachter SE. Demodex. Optom Vis Sci. 2013 Jul;90(7):e198-205.



Microscopic arthropods, *Demodex folliculorum*, live on all mammals especially their faces

and cause no harm under most circumstances.

Drugs

Demodex

Demodex Blepharitis

Blepharitis

Selected Clinical trials			
	Form	Dosing	Proposed Indication
Tarsus (lotilaner)	Drop	BID	Demodex/ MGD
Aperta (Spinosod)	ung	N/A	Blepharitis Demodex
Azura (selenium sulfide)	ung	2 x week	Blepharitis MGD/CL dryness
(Ivermectin)	Topical	Weekly	Demodex
Glaukos	Topical	?	Demodex

Lotilaner (Xdemvy)





Kuntz, E.A., Kammanadiminti, S. Safety evaluation of lotilaner in dogs after oral administration as flavoured chewable tablets (Credelio™). Parasites Vectors 10, 538 (2017).

https://www.credelio.com/about-credelio/side-effects

https://www.ispot.tv/ad/lx_l/credelio-tiny-defender-of-dogs

Lotilaner (Xdemvy)







Kuntz, E.A., Kammanadiminti, S. Safety evaluation of lotilaner in dogs after oral administration as flavoured chewable tablets (Credelio™). Parasites Vectors 10, 538 (2017).

https://www.credelio.com/about-credelio/side-effects

https://www.ispot.tv/ad/lx_l/credelio-tiny-defender-of-dogs

Lotilaner (Xdemvy)

- FDA-approved (2023)
- High mite eradication (50–68%)
- First-in-class, vehicle-controlled data



Kuntz, E.A., Kammanadiminti, S. Safety evaluation of lotilaner in dogs after oral administration as flavoured chewable tablets (Credelio[™]). Parasites Vectors 10, 538 (2017). https://doi.org/10.1186/s13071-017-2468-y

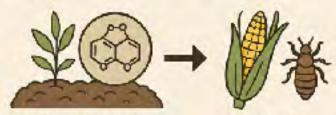
https://www.credelio.com/about-credelio/side-effects

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Glaukos	Topical	?	Demodex

aninosad

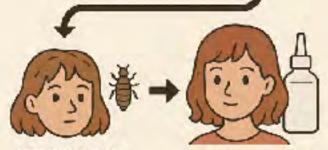


SPINOSAD



SOIL CURIOSITY discovered in 1982 from

discovered in 1982 from a soil bacterium in the Virgin Islands CROP BIOINSECTICIDE



HEAD LICE TREATMENT

CANDIDATE FOR DEMODEX BLEPHARITIS

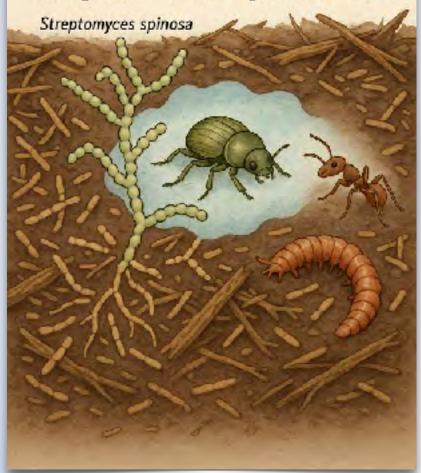




DEFENSE AGAINST INSECTS

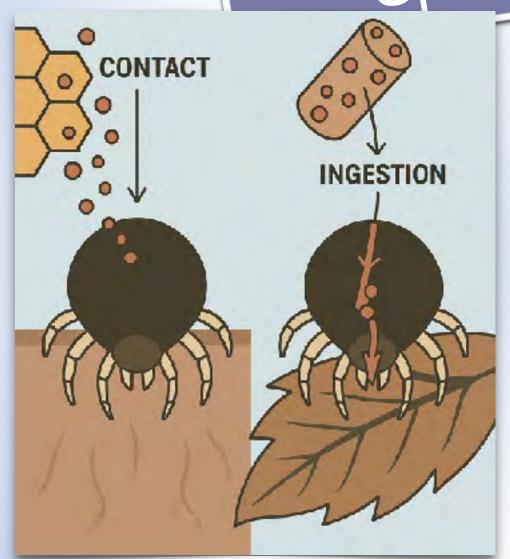
Soil bacteria compete for space and nutrients.

By releasing spinosyns (spinosad), S. spinosa creates a chemical shield that kills or deters insects that might eat or disturb the organic matter it lives in.





Spinosad







Head lice

Bug spray

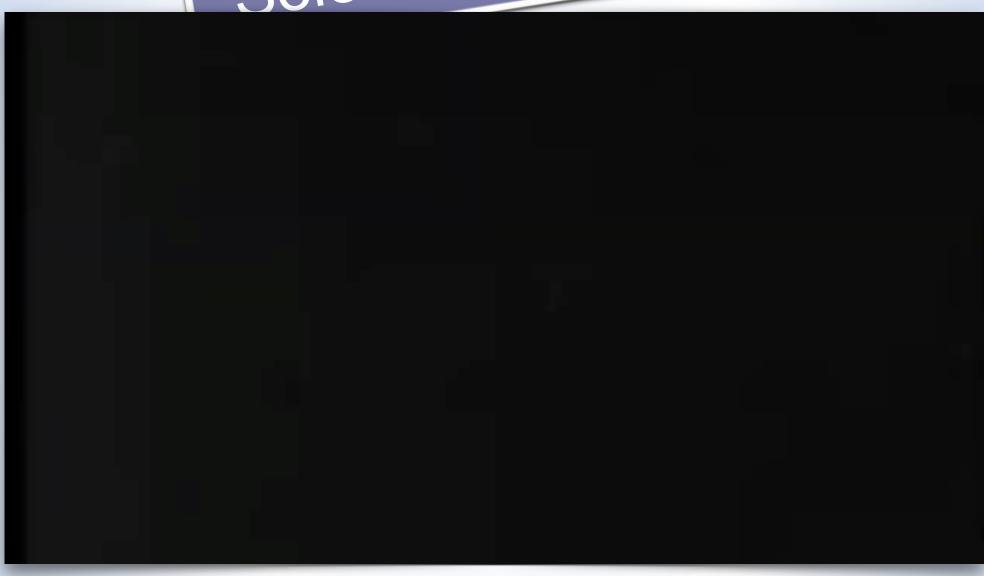
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(Ivermectin)	Topical	Weekly	Demodex
Glaukos	Topical	?	Demodex

Selenium sulfide

From Dandruff Shampoo to Dry Eye Relief?



Selenium sulfide







Scalp (Dandruff)

Problem:

- Fast skin shedding → flakes

Selenium Action:

- Slows skin turnover
- Breaks down flakes
- Reduces fungus



Eyelid (MGD)

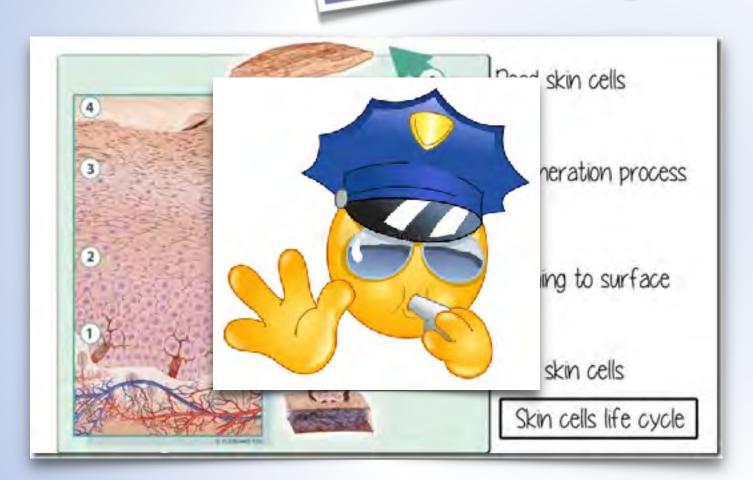
Problem:

Excess keratin + thick oil → blocked glands

Selenium Action:

- Slows skin turnover
- Loosens debris
- Opens ducts
- Reduces fungus

Selenium sulfide



Eyelid (MGD)

Problem:

Excess keratin + thick oil → blocked glands

Selenium Action:

- Slows skin turnover
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Selenium sulfide

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Selenium sulfide

Eyelid (MGD)

Problem:

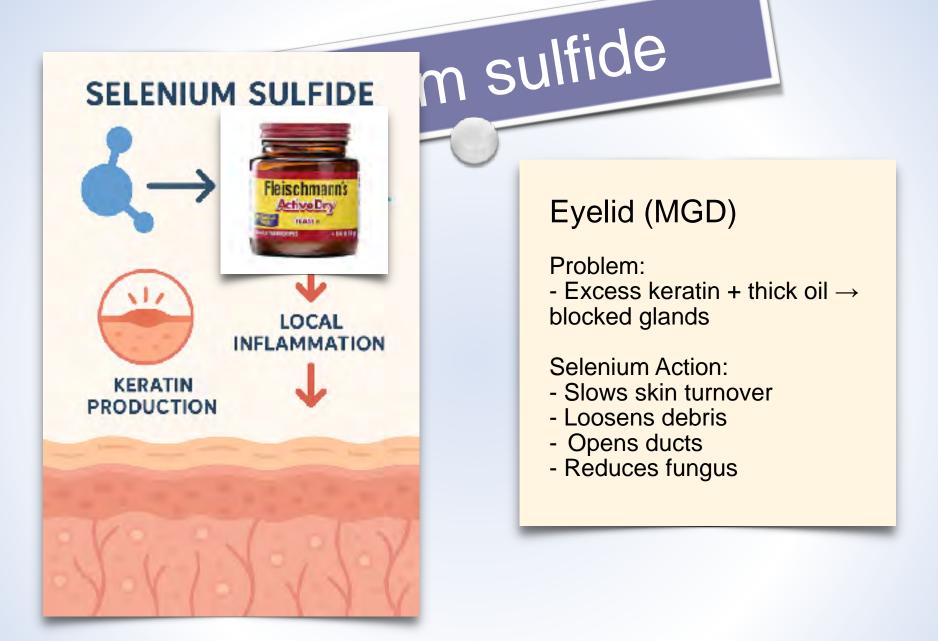
- Excess keratin + thick oil → blocked glands

Selenium Action:

- Slows skin turnover
- Loosens debris
- Opens ducts
- Reduces fungus







Wang L, Deng Y. Malassezia species may play potential roles in the pathogenesis of meibomian gland dysfunction. Med Hypotheses. 2020 Nov;144:110137

Selenium sulfide

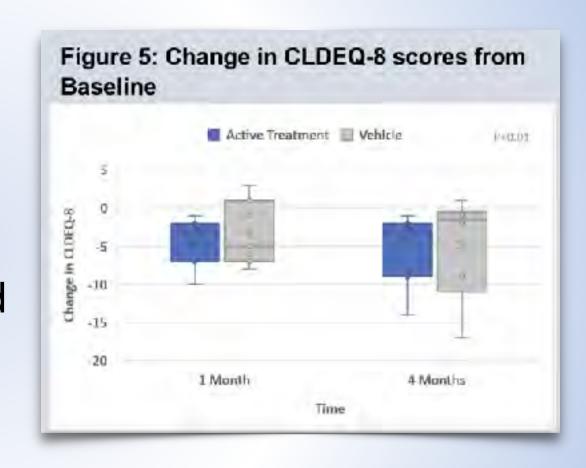
CL Comfort Performance?

"Twice weekly use of a topical ointment...selenium sulfide...appears to improve Meibomian gland[s]...by more than 30% in symptomatic CL wearers after...6 weeks"

https://azuraophthalmics.com/scientific-meetings

First CL discomfort drug Remember: Comfort = tear film + glands + lens.

Future drugs may blur the lines between blepharitis treatment and CL performance enhancers.



Selected Clinical trials				
	Form	Dosing	Proposed Indication	
Tarsus (lotilaner)	Drop	BID	Demodex/ MGD	
Aperta (Spinosod)	ung	N/A	Blepharitis Demodex	
Azura (selenium sulfide)	ung	2 x week	Blepharitis MGD/CL dryness	
(Ivermectin)	Topical	Weekly	Demodex	
Glaukos	Topical	?	Demodex	

Ivermectin

- Weekly 1% cream application
- 15-minute contact time
- Less redness & swelling
- Less lid debris & cylindrical dandruff
- More patient comfort

Choi Y, Eom Y, Gyn Yoon E. Efficacy of topical ivermectin 1% in the treatment of Demodex blepharitis. Cornea. 2021; 00:1-8.

Q: Ivermectin was first developed for livestock. True or False?

True – Nobel Prize 2015 for global parasitic disease control.



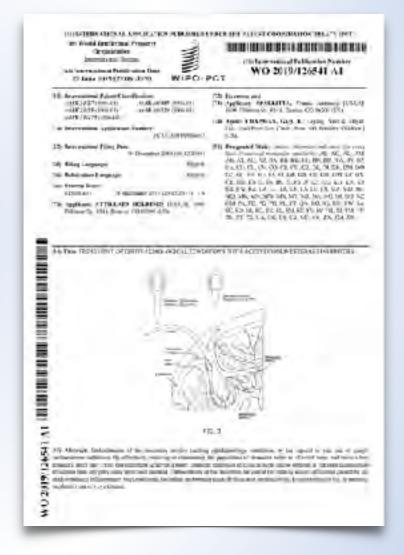
amazon.com

Selected Clinical trials				
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(Ivermectin)	Topical	Weekly	Demodex	
Glaukos	Topical	?	Demodex	

Glaukos

Glaukos Attillaps patent

- Acetylcholinesterase [ACE] inhibitors causes mite paralysis
- Ex Physostigmine, demarcarium, ecthiophate
- Ciliary muscle effects:
- Miosis, browaches, accommodative spasm)



Mite Wars

- Lotilaner (Xdemvy) (Tarsus)
 - FDA-approved (2023)
 - High mite eradication (50–68%)
 - Dog and cats drug
- Spinosad (Aperta)
 - Soil bacterium-derived
 - Insect neurotoxin, used for lice & pests
 - Ointment in trials for Demodex blepharitis
- Selenium Sulfide (Azura)
 - Twice-weekly ointment
 - Improves Meibomian gland function (>30% in CL wearers)
 - MGD + CL discomfort target
- Ivermectin
 - Off-label weekly use
 - Anti-parasitic, improves comfort & debris
- Glaukos
- Anticholinesterase (ACE) Inhibitor mite paralysis
- Potential ciliary body risks (miosis, browache, accommodative spasm)

"Mite eradication was defined as a mite density of 0 mites/lash."

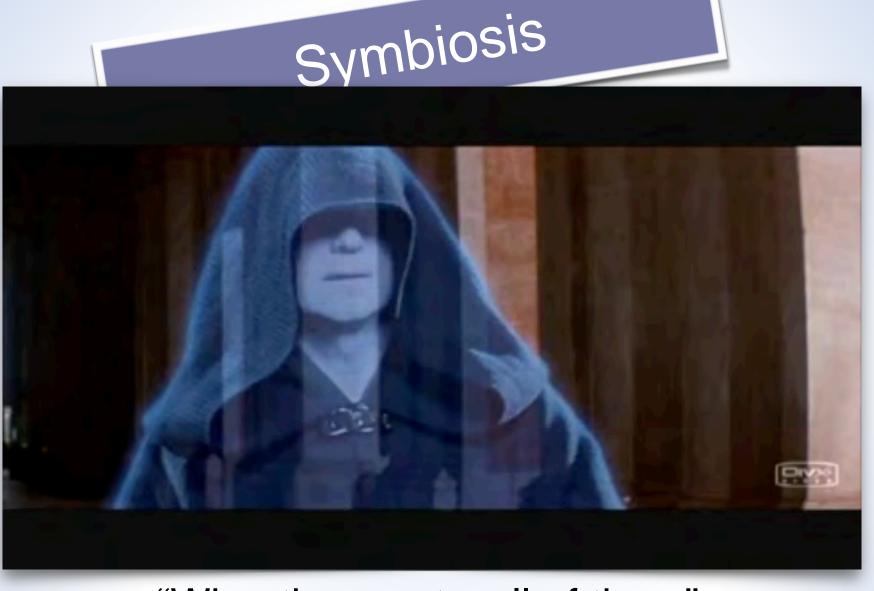
Saturn 1: 67.9% achieved complete mite eradication

Saturn 2: 50% achieved complete mite eradication after 6 weeks

Yeu E, Wirta DL, Karpecki P, Baba SN, Holdbrook M; Saturn I Study Group. Lotilaner Ophthalmic Solution, 0.25%, for the Treatment of Demodex Blepharitis: Results of a Prospective, Randomized, Vehicle-Controlled, Double-Masked, Pivotal Trial (Saturn-1). Cornea. 2023 Apr 1;42(4):435-443.

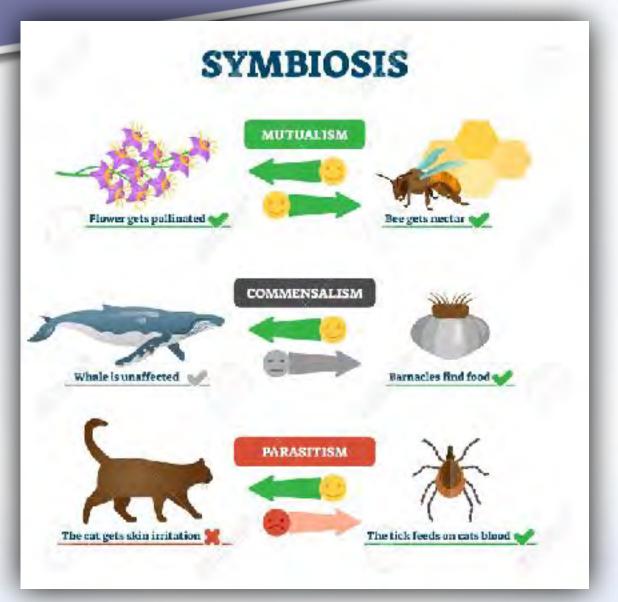
Sadri E, Paauw JD, Ciolino JB, Nijm L, Simmons B, Meyer J, Gaddie IB, Berdy GJ, Holdbrook M, Baba SN, Jalalat P, Yeu E. Long-Term Outcomes of 6-Week Treatment of

Lotilaner Ophthalmic Solution, 0.25%, for Demodex Blepharitis: A Noninterventional Extension Study. Cornea. 2024 Nov 1;43(11):1368-1374. Gonzalez-Salinas R, Yeu E, Holdbrook M, et al. Collarette elimination and demodex mite eradication with topical lotilaner ophthalmic solution, 0.25. J Ocul Pharmacol Ther. 2021;37:479–484.



"Wipe them out...all of them"
Star Wars: Episode 1 The Phantom Menace

Symbiosis



Demodex relationships

Parasitic

Number of mites

Commensal Mutualistic Signs and symptoms

Asymptomatic No visual signs

Case: SH

Mite Attack

59-year-old female

CC: Eyelid itching and self-reported mite infestation

Patient believes she contracted mites while visiting her hospitalized husband. Presents with eyelid scabbing from excessive scrubbing to remove mites.

Mite Attack





Demodex Blepharitis vs Delusional Parasitosis

ASTRO-C

DRY EYE DX AND TX

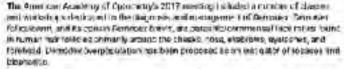
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Lam confident that you duly encounter partients who have self-dlag rosed their coular partition vision. Interior search, to face, an interior "deplication" up in partie (p. information regarding the day car, at blog teams from the respected Mayor Effect (**

Demodes are included in the differential dischools, it is no curpose, therefore, that patients who comy the dischools of blockomistic may question whether the Demodes mile is contributing to their malesy.

Possible impact of Demodex Diagnosis

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Interestingly, a small percentage of micropevals women report its by skin symptoms or terminestics. In fact, skin paresthesias are included in the Kuoperman Modified Rusperman Modified The Rusperman Index (Rusperman et al. 1973), along with the foreigness of Rating Societ (Hauser et al. 1994), are to as for the excessions of manage, sall complaints.

if should be noted that classept alle and vibrate who force on the sensention of formicetion may develop on use the parameters (also known as allebour or the light one synchronic) if recurrent and Lepping, 2.7, 9). Classified as a primary psychiatric disorder affected potents have no primary axis pathology all skin findings are secured by this kin introduction by selections, for example, excessive according. The parameters of periods is an other vibrate.

Matrosta K. CL Spectrum December 1 2017



Ekbom syndrome

Private conversation





Ekbom syndrome

Delusional parasitosis
Ekbom syndrome
Morgellons disease
Delusional infestation [DI]
Delusions of parasitosis [DOP]

Brownstone N, Howard J, Koo J. Management of delusions of parasitosis: an interview with experts in psychodermatology. Int J Womens Dermatol. 2022 Jul 8;8(3):e035

Ekbom syndrome

Matchbox signs

Zip lock bag signs

Self-referral

Internet searches

Reich A, Kwiatkowska D, Pacan P (December 2019). "Delusions of parasitosis: an update". Dermatol Ther (Heidelb) (Review). 9 (4): 631–638.

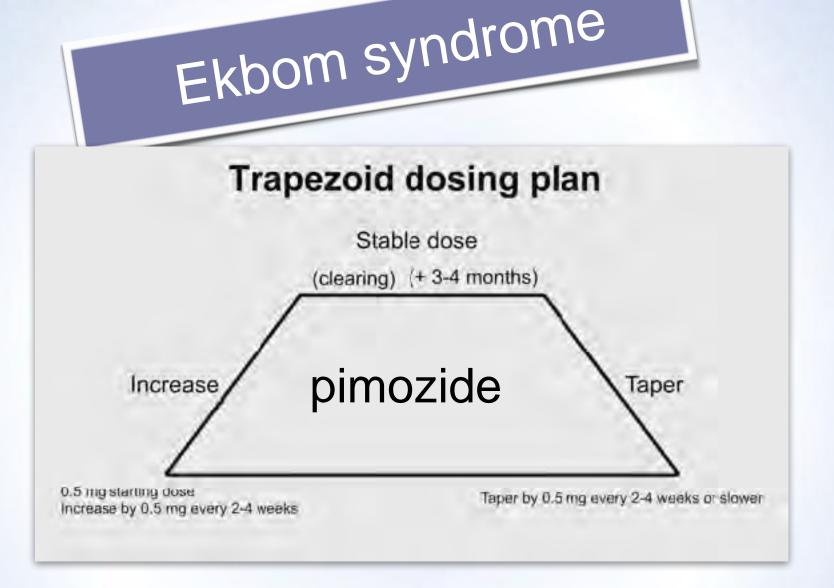
Koo J, Lebwohl A (December 2001). "Psycho dermatology: the mind and skin connection". Am Fam Physician. 64 (11): 1873–1878.

Moriarty N, Alam M, Kalus A, O'Connor K (December 2019). "Current understanding and approach to delusional infestation". Am. J. Med. (Review). 132 (12): 1401–1409.

Delusional parasitosis

"studies have demonstrated cortical and subcortical atrophy in DI [delusional infestation] patients"

Lai JB, Xu Z, Xu Y, Hu SH. Reframing delusional infestation: perspectives on unresolved puzzles. Psychol Res Behav Manag. 2018;11:425-432



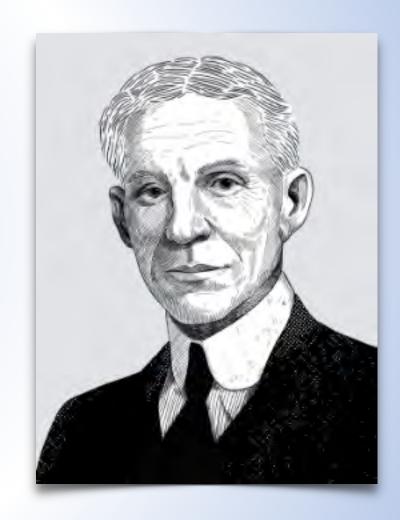
Brownstone N, Howard J, Koo J. Management of delusions of parasitosis: an interview with experts in psychodermatology. Int J Womens Dermatol. 2022 Jul 8;8(3):e035



Demodex: Total eradication? Be kind to your mites
Vast majority of blepharitis is demodex
Do not use ivermectin and spinosad together (toxicity)
Newer drugs work faster
Presently, there are no drugs that treat CL discomfort
Delusional parasitosis: Handle with care

Dunn ST, Hedges L, Sampson KE, Lai Y, Mahabir S, Balogh L, Locuson CW. Pharmacokinetic interaction of the antiparasitic agents ivermectin and spinosad in dogs. Drug Metab Dispos. 2011 May;39(5):789-95. doi: 10.1124/dmd.110.034827. Epub 2011 Feb 14. PMID: 21321059.

"If you always do what you've always done, you'll always get what you've always got."
—Henry Ford



thank you!

milton m. hom eyemage@mminternet.com