Getting Started with IPL: Beginners Guide to Intense Pulse Light for On-Label Dry Eye Disease and Other Off-Label **Applications**

> Laura Periman, MD Douglas K. Devries, OD Vision Expo West 2023

Douglas K Devries, OD Disclosures All Conflicts Have Been Mitigated Allergan Advisor Occuphire Advisor Alcon Advisor and Sneake Oyster Point Advisor and Speaker Asecula Advisor Orasis Advisor Aldevra Ophthalmic Resource Part Avellino Adviso Quidel Advisor Azura Advisor RVL Advisor and Speaker Bio Tissue Advisor and Spea Science Based Health Advisor and Speake Bruder Advisor SightRx B&L Advisor and Speaker Sight Science Advisor and Speake Dompe Advisory and Speake Sun Advisor and Speake Johnron and Johnron Adviror Tarsus Advisor Kala Advisor and Speaker Thea Advisor TruKera Advisor Lumenis Advisor and Speak NeuroLens Versea Advisor Novartis Advisor and Speaker Visus AdvisorQuidel Advisor OcuSoft Advisor

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Advisor and Spea

Laura Periman, MD Disclosures

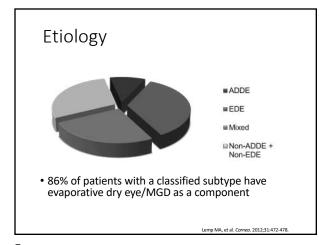
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Alcon Advisor and Speaker	Orasis Advisor
Aerie Advisor	Olympic Ophthalmics
Avellino Advisor	Quidel Advisor
Azura Advisor	Quench Method
Bio Tissue Advisor and Speaker	Science Based Health Advise
Bruder Advisor	SightRx
B&L Advisor and Speaker	Sun Advisor and Speaker
Dompe Advisory and Speaker	TheraMdex
Kala	Tarsus Advisor
Eyepoint	Visant Advisor
Lumenis Advisor and Speaker	TruKera Advisor
Horizon	Versea Advisor
NuSight	Visus AdvisorQuidel Advisor
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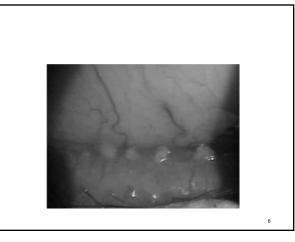
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Novartis Advisor and Speake OcuSoft Advisor

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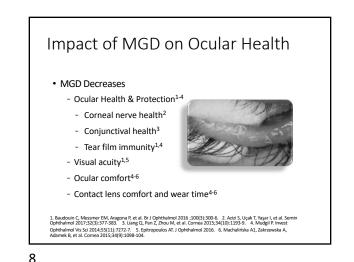


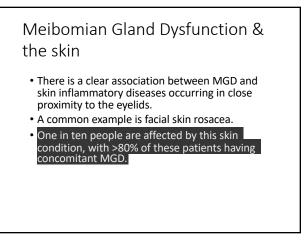






Patient Condition	% with MGD
Dry Eye	86% ¹
Peri-menopause	79% ²
Polycystic Ovary Syndrome	73% ³
Glaucoma (on prostaglandins)	96% ⁴
Glaucoma (non prostaglandin)	58% ⁴
Diabetes	58% ⁵
VDT users (4+ hrs per day)	85%6
Cataract Patients	59% ⁷
Contact lens wearers	60% ⁸





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Meibomian gland dysfunction & the skin



Meibomian Gland dysfunction & the skin

 In 20% of cases, ocular signs precede skin rosacea – possibly suggesting that skin rosacea could already exist in a subclinical forms

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Meibomian gland dysfunction & the Skin

Risk factors

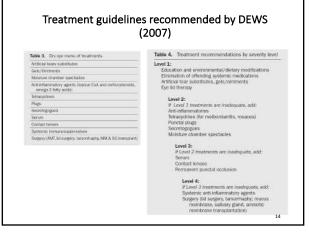
Female > Male

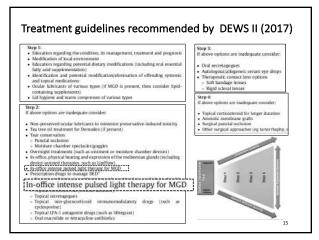
- fair skin, particularly if it has been damaged by the sun
- over age 30
- Smoke
- family history of rosacea

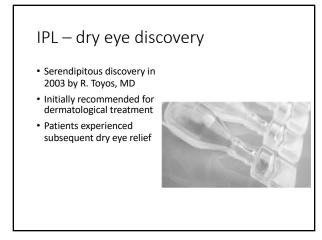
Triggers • Hot drinks and spicy foods

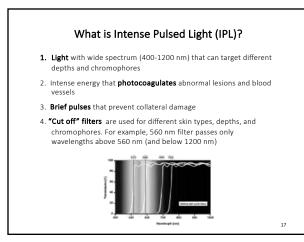
- Alcohol
- Temperature extremesSunlight or wind
- summer or wind
 Emotions
- Exercise
- Cosmetics
- Drugs that dilate blood vessels, including some blood pressure medications

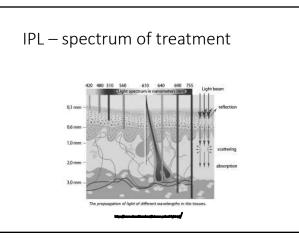


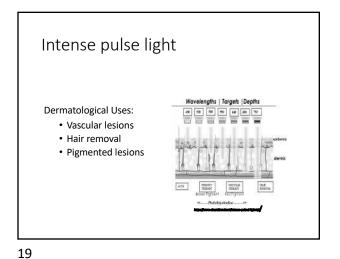


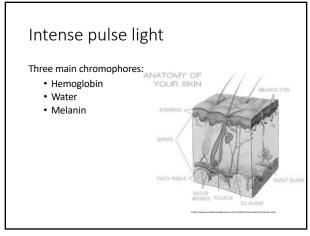


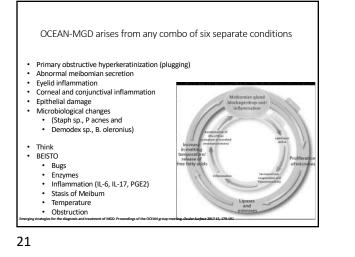


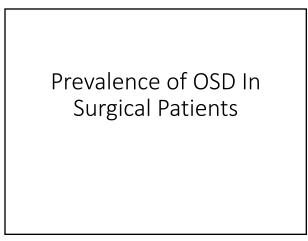


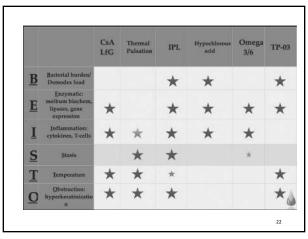


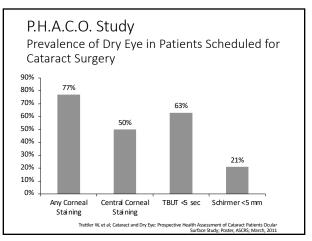












P.H.A.C.O. Study: Lessons Learned

• 80.9% of patients scheduled for cataract surgery were diagnosed with OSD

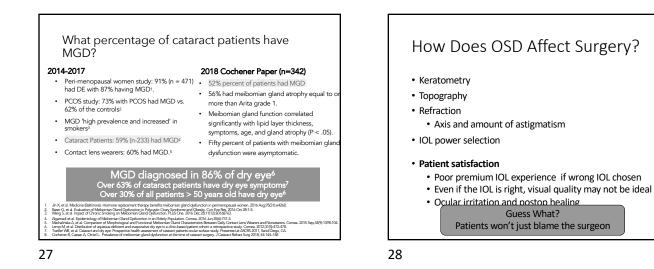
• Majority were asymptomatic

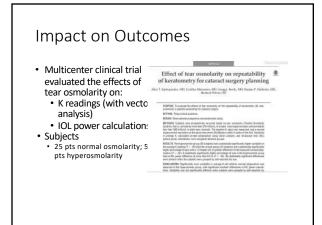
- Blurred vision common
- Clinical signs common

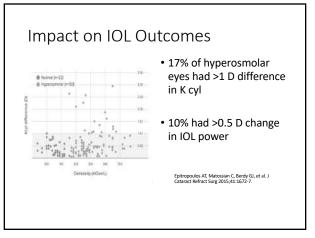
If you look.....you will find it

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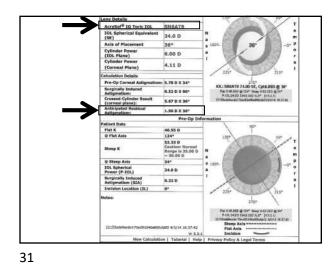


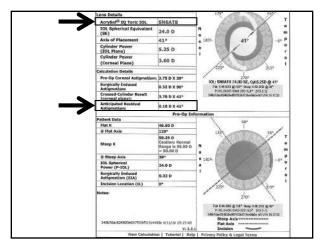




The Role of the Ocular

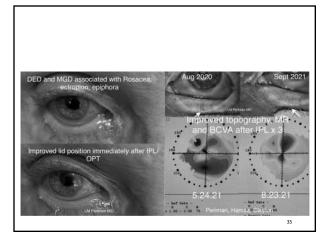
Surface in Surgical Success

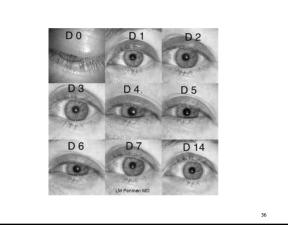


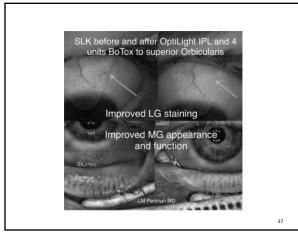




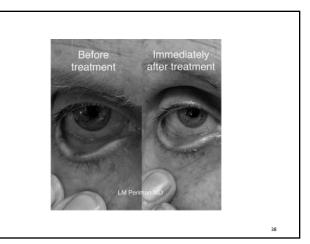




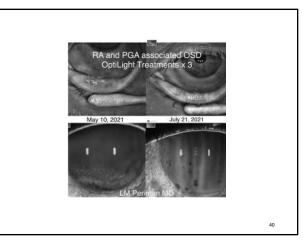




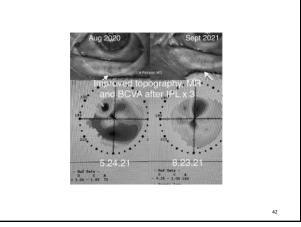




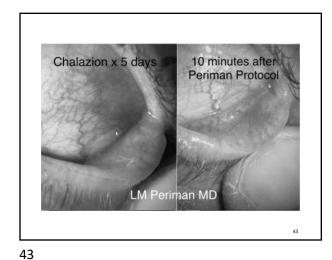


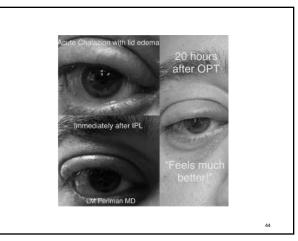


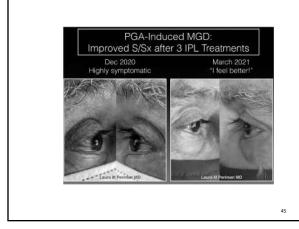


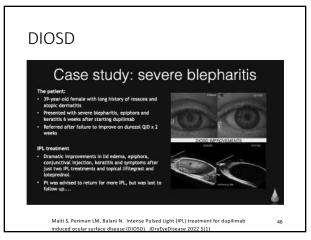


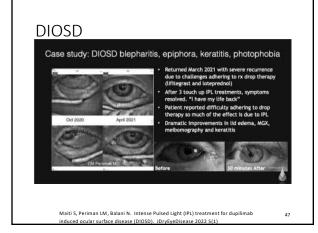




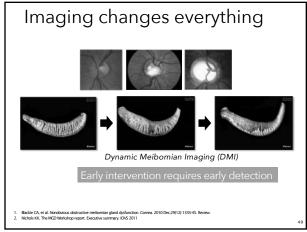


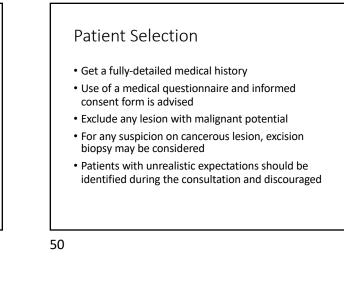












Skin Assessment

- Tanning of all forms (sun, tanning beds) is formally contra- indicated as melanin would be redistributed and migrate towards upper epidermis building a "light-blocker" to any treatment
- · Also exclude self tanning lotions which give the skin a competing artificial colouration through a chemical reaction with the amino acids of the stratum corneum
- Tanned skins CANNOT be "defined" by selecting a darker skin type
- On areas with slower "de-tanning" passed the minimum solar eviction of 3-4 weeks, recommend gentle exfoliation of the area 1 week prior treatment

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Contraindications

- Treatment should not be attempted on patients with the following conditions in the treatment area:
 - Active infections Dysplastic nevi
 - Significant concurrent skin conditions or any inflammatory skin conditions

 - · Active cold sores, open lacerations or abrasions
 - Chronic or cutaneous viral, fungal, or bacterial diseases Exposure to sun, remaining suntan or artificial tanning in the 3-4 weeks pre-op plan
 - Tattoos

MGD/ Blepharitis

types I-IV

Treatment should not be attempted on patients with a history of skin cancer or pre-cancerous lesions on the treatment area

Who is a candidate for IPL treatment?

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Complications

- Erythema (redness) and edema (swelling) of the treated area can occur
- Irritation, itching,and/or a mild burning sensation or pain similar to sunburn may occur within 48 hours of treatment.
- Pigmentary changes such as hyper pigmentation and hypo pigmentation of the skin in the treated areas can occasionally occur.
- Other known complications of this procedure include blisters, redness, pinpoint pitted scars, bruising, superficial crusting, burns, pain, and infections. These side effects are usually temporary, lasting from five to ten days but can be permanent as well.

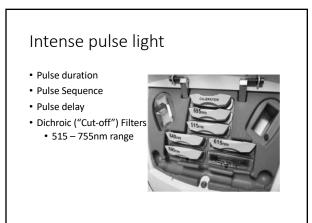


Periman Protocol with M22 "The Dry Eye Master"

- Full face rosacea settings
- Toyos settings to V2 (Double Pass)
- Treat lids (with laser grade corneal shie
- Aesthetic clean-up (spot treat pigment telangiectasias)



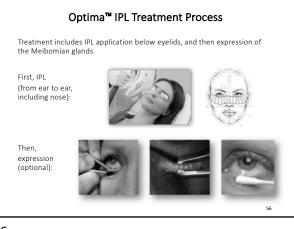
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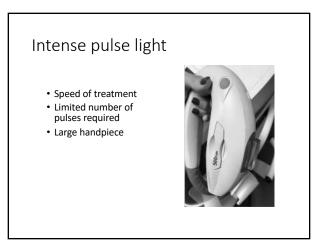
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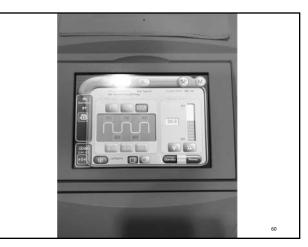




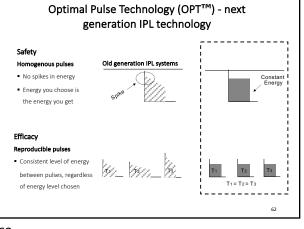


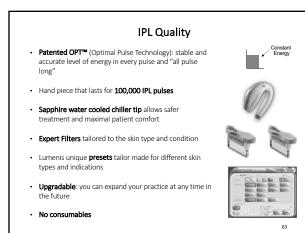
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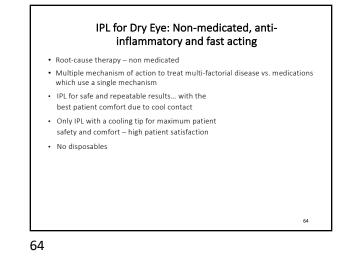


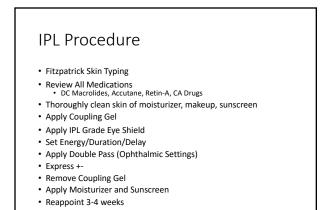


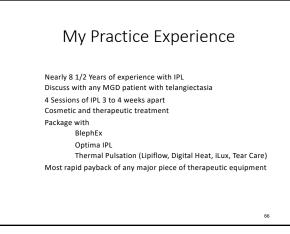












Workshop

- Lumenis OptiLight

 - Keep glasses on at all times
 If being treated remove all sunscreen and/or makeup
 - OptiLight setting Aesthetic settings

 - Fitzpatrick Skin TypingCleaning the skin

 - Application of coupling gel
 Aesthetic vs ophthalmic setting
 Recording power, treatment and delay settings

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THANK YOU

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