

STATE BOARD OF OPTOMETRY

2450 DEL PASO ROAD, SUITE 105, SACRAMENTO, CA 95834 P (916) 575-7170 F (916) 575-7292 www.optometry .ca.gov



Continuing Education Course Approval Checklist

| Title: |
|---|
| Provider Name: |
| ☑Completed ApplicationOpen to all Optometrists?☑Yes☐NoMaintain Record Agreement?☑Yes☐No |
| ☑ Correct Application Fee |
| ✓ Detailed Course Summary |
| ☑ Detailed Course Outline |
| ☑ PowerPoint and/or other Presentation Materials |
| □Advertising (optional) |
| |
| ☑ License Verification for Each Course Instructor Disciplinary History? ☐ Yes ☑ No |



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CONTINUING EDUCATION COURSE APPROVAL **APPLICATION**

\$50 Mandatory

Pursuant to California Code of Regulations (CCR) § 1536, the Board will approve continuing education (CE) courses after receiving the applicable fee, the requested information below and it has been determined that the course meets criteria specified in CCR § 1536(g).

In addition to the information requested below, please attach a copy of the course schedule and topical outline of the subject matter. Applications must be submitted 45 days prior to the course presentation date.

| Please type or print clearly. | | |
|--|---|---|
| Course Title Haste of the Islands Œ11 | Course Presentation Date | |
| Should my almoma Patient with a catavait have a MIES SIM | 8am-4:30 PM 104/30/20 | |
| Provider Name (1 a st. 1 a st. | Contact Information | |
| Provider Name Coastal Vision Wedical e | | |
| Gina) Val | <u>d-emar</u> (Last) (Mic | idle) |
| Provider Mailing Address | | |
| Street 394 S-Main St. City Ovange | State <u>CA</u> Zip <u>9289</u> | 0 |
| Provider Email Address Jina Valdemar @ Co | astal-vision o com | |
| Will the proposed course be open to all California licen | sed optometrists? | YES DNO |
| Do you agree to maintain and furnish to the Board and/ of course content and attendance as the Board require from the date of course presentation? | or attending licensee such records s, for a period of at least three years | XYES DNO |
| Please provide the information below and attach the curriculif there are more instructors in the course, please provide the instructor Name | ictor Information lum vitae for each instructor or lecturer in le requested information on a separate s | volved in the course. neet of paper. |
| Baothu (Betsy) Ngen | lew | |
| (1.101) | Last) (N | /liddle) |
| License Number <u>U7609</u> | License Type | |
| Phone Number (14) 146-9179 | Time Valdeman @ Coastal Emeil Address | - Visum-com |
| I declare under penalty of perjury under the laws of the | State of California that all the informat | ion submitted on |
| this form and or any accompanying attachments submi | tted is true and correct. | |
| Signature of Course Provide | 2-30-17 | |
| Signature of Course Provider | Date | |
| | 1 | Form CE-01, Rev. 2/16 |



March 23, 2017

State Board of Optometry 2450 Del Paso Road, Ste. 105 Sacramento, CA 95834

RE: Late submission of CE course approval-Taste of the Islands 8 Hour CE-April 30, 2017: Five Retinal Diagnoses You Don't Want to Miss; Cataract Surgery in Patients with Corneal Pathology; Buried Treasure: Connecting the Dots to Treating Binocular Misalignment; Patient-reported Outcomes with Lasik: Interpreting the PROWL study; What We Know about Topography Guided Refractive Surgery: Case Studies in Clinical Practice; Do You See What I See?; Crosslinking for Corneal Ectasia: The Evolution of Sclera Lenses; Blink and You'll Miss It: Dry Eye in the Cosmetic Patient; Is the Symfony Toric Lens the Answer for Every Eye Condition; Should My Glaucoma Patient with a Cataract have a MIGS Surgery; Vitreous: Friend or Foe; Is it Cancer? The Optometrist Role in the Diagnosis and Management of Periocular Skin Cancer; Oral Presentations of Systemic Disease: Case Presentations; Glaucoma Management: What Should I do Next?

Dear Practice and Education committee,

I am writing this letter in regards to late submission for the multi-course symposium titled "Taste of the Islands CE" scheduled for presentation on 04/30/2017. We are short of the 45 day submission request, and wanted to include a letter for late submission with our CE approval application.

We continue to work diligently to get all required items to the board needed for CE approval in a timely manner. Due to multiple speakers at the upcoming CE, we had difficulty obtaining all the lectures to meet the submission requirement timeline and would appreciation your consideration of our continuing education approval request.

Please feel free to reach out to us with any other questions. We look forward to continued relations with the State Board of Optometry and the practice and education committee.

Sincerely

Gina Valdemar

Affiliate Relations and Education Director

Coastal Vision Medical Group

ginavaldemar@coastal-vision.com





Taste of the Islands 8 hour CE (11 of 15 lectures)

Course Title: Should My Glaucoma Patient with a Cataract have a MIGS

Surgery?

Course Presentation date: 4/30/17

Speaker: Baothu (Betsy) Nguyen, MD

Target Audience: This lecture is intended for optometrist seeking continuing

education

Course Description: Microinvasive Glaucoma Surgery or MIGS is the latest in surgical treatment for glaucoma. The attendees will learn "what is MIGS" and "what are the different types of MIGS". Case presentation discussion will include a patient with a cataract and uncontrolled glaucoma. This lecture seeks to provide optometrists with information to help with patient discussion regarding surgical options for glaucoma and cataract patients and if MIGS are potential solutions to help reduce or eliminate compliance issues with medications.

CE Credit: .50 CE Units

I GLAUCOMA MANAGEMENT: WHAT SHOULD I DO NEXT?

Betsy Bao-Thu Nguyen, M.D.

2 CASE PRESENTATION #1

 67 yo active Caucasian male with POAG, and moderate cataracts, treated with Lumigan & Combigan for 4 years, with recent history of optic disc heme OD, with current IOPs ranging 10-12

WHAT IS YOUR NEXT TREATMENT STEP?

3 CASE PRESENTATION

- What is your next treatment step?
 - -A. Continue Lumigan, add Simbrinza.
 - -B. Continue Lumigan, add Cosopt.
 - -C. Continue Lumigan. Suggest SLT 360 OD.
 - D. Continue Lumigan. Suggest Cataract surgery OD.
 - −E. Continue Lumigan. Suggest Cataract surgery OD with MIGS (i.e. Istent).
 - F. Continue Lumigan. Suggest trabeculectomy OD .
 - -G. Refer him to a glaucoma specialist

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- 67 yo Caucasian male, retired customs agent with POAG OD>>OS, on Lumigan qhs OU & Comigan BID OU. Initially diagnosed 4 years ago.
- Family history: +sister on 2 glau meds (diagnosed age 40s)
- Systemic meds: Cozaar, Lipitor

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5 CASE PRESENTATION

- Va: 20/50 OU, myope (-5 OD, -4.25 OS)
- IOP (applanation): 15 OD, 13 OS (Tmax= 23)
- Pachy: 580 OD and 575 OSGonio: Grade IV, open to CBB
- Slit Lamp: tr-1+conj inj OU, 3+ NS cataracts.

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6 FUNDUS

7 HVF 24-2 SITA STANDARD

8 Cirrhus OCT

9 GLAUCOMA TREATMENT GOAL: pressure <u>consistently</u> with flat diurnal curve = LESS progression

Lowering intraocular

- · Our paradigm shift in glaucoma treatment
 - 1) Target intraocular pressure range: 25-30% goal?? (AAO Preferred Practice

Pattern: at least 25% from pretreatment IOP)

- 2) Shift to switching medications vs. adding medications
- 3) Shift to less medications (need compliance !)-- perform SLT, or Cataract surgery, or Cataract surgery with MIGS
- 4) Other strategies, in addition to IOP lowering, may be required to prevent visual field loss (ie: neuroprotection)

4)

10 GLAUCOMA MEDS LOWERING IOP: MECHANISM OF MEDICATION

- 1) Reduce aqueous humor production
 - -- Beta-blockers
 - -Carbonic anhydrase inhibitors
 - Alpha adrenergic agonists

11 GLAUCOMA MEDS LOWERING IOP: MECHANISM OF MEDICATION

- 2) Increase fluid outflow (uveoscleral outflow vs. trabecular outflow)
 - Prostaglandins
 - Alpha adrenergic receptor agonists
 - Pilocarpine

_FUTURE: Rho Kinase inhibitors (ROCK), adenosine agonists (trabodenoson)

12

Prostaglandin analogues are the 1st line /GOLD standard for monotherapy

- Xalatan 0.005% (since 1996) (latanaprost) -BAK
- Lumigan 0.01% (bimatoprost) BAK
- Travatan-Z 0.004% (travoprost) SofZia
- Zioptan 0.0015% (tafluprost) -preservative free
- (Rescula –prostamide)– ineffective

•

- TOLERABILITY TO ONE PROSTAGLANDIN MAY BE DIFFERENT THAN TO OTHERS!
- · Flat diurnal curve
- 28 33% IOP lowering (Want monotherapy)
- · AND the GENERICS

•

13 HOW OFTEN IS 1 MEDICATION NOT ENOUGH?

- OHTS TRIAL: 49 % patients required 2 or more medications to reach target IOP
- CIGTS TRIAL: >75 % patients required 2 or more medications to reach target IOP

14 SECOND bottle choices: Combination meds can increase compliance and be

more effective

- Alpha adrenergic agonists = Alphagan-P 0.1% vs generic brimonidine 0.15 & 0.2%
- Topical carbonic anhydrase inhibitors = Trusopt, generic dorzolamide, Azopt
- Combinations (Simbrinza, Combigan, Cosopt or its generic)
- Beta Blockers

15 SELECTIVE LASER TRABECULOPLASTY (SLT)

is an excellent choice in lowering IOP, if target goal not reached with monotherapy!

- · COMPLIANCE IS NOT AN ISSUE!
 - 100% COMPLIANCE with SLT !!!!
- In general, cost-effective.
- · In general, no side effects.
- No negative impact on quality of life.
- No peak/trough IOP fluctuations. FLATTENS DIURNAL CURVE.
- SLT decrease IOP an additional 3-4 mm Hg, on patients on topical PGs

16 SELECTIVE LASER TRABECULOPLASTY Primary therapy vs Adjunctive therapy

- Melamed et al: SLT decrease IOP by 7.7 (+-3.5) mm Hg in untreated OHTS/POAG patients
- · Latina et al:
 - SLT decrease IOP an additional 3-4 mm Hg, on patients on topical PGs
 - -SLT decrease IOP an additional 4 mm Hg, on patients on topical Aqueous Suppressants
 - Response rate (>3 mm Hg IOP lowering): 47 % on PGs vs 87 % **Aqueous Suppressants**

17 CASE PRESENTATION #2

 34 yo Persian female accountant with NTG, treated with Lumigan & Alphagan-P for 7 years, with early visual field defects, previous history of optic disc hemes OU, with current IOPs ranging 13-16. She now wants to get pregnant.

WHAT IS YOUR NEXT TREATMENT STEP?

18 CASE PRESENTATION

- What is your next treatment step?
 - A. Continue current medications. NO changes.
 - B. Stop all topical medications.
 - -C. Stop Lumigan & continue Alphagan-P. Educate immediate eye closure & punctal occlusion for 5 minutes.
 - − D. Stop current medications & change to Combigan. Educate immediate eye

closure & punctal occlusion for 5 minutes.

- E. Laser trabeculoplasty
- F. Glaucoma surgery (MIGS, trabeculectomy or tube)
- -G. Refer her to a glaucoma specialist

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19 CASE PRESENTATION

- 34 yo Persian Female accountant with moderate NTG, on Lumigan qhs OU & Alphagan-P BID OU. Initially diagnosed 7 years ago, when presented with optic disc hemorrhage OD.
- Family history: +mom, bro, aunt surgery
- · Systemic meds: Iron, vitamins

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20 CASE PRESENTATION

- Va: 20/20 OU, low myope
- IOP (applanation): 14 OD, 15 OS (Tmax= 20)
- Pachy: 512 OD and 509 OS
- Gonio: Grade IV, open to CBB
- Slit Lamp: unremarkable, except mild SPK OU.

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21 FUNDUS

- 22 FUNDUS OS
- 23 HVF 24-2 SITA STANDARD
- 24 Cirrhus OCT

25 PREGNANCY AND GLAUCOMA

- Challenging & controversial treatment!
- The TWO goals:

- Safety to fetus/baby
- Maintaining mother's vision/IOP/glaucoma

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• In past, few cases, but now may be increasing with advancing maternal age.

26 PREGNANCY AND GLAUCOMA

- · WHAT HAPPENS TO IOP DURING PREGNANCY?
 - IOP generally decreases during pregnancy (especially from 1st to 3rd trimester), and usually lasts for several months postpartum.
 - Proposed theory:
 - Increased uveoscleral outflow (hormone-mediated)
 - Reduced episcleral venous pressure
- However, there are some women who have increasing IOP and/or progression of VF loss.

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4

27 PREGNANCY AND GLAUCOMA

- Brauner et al (Harvard): retrospective 15 pregnant glaucoma patients (28 eyes)
 - 57 % of eyes: stable IOP/VF (with less meds)
 - −18 % of eyes: increase IOP but stable VF (require more meds)
 - −18 % of eyes: increase IOP AND progressive VF (require more meds)

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28 PREGNANCY AND GLAUCOMA

- Active discussion with patient and spouse
 - Risks and benefits of treatment
- Active discussion with patient's obstetrician (High risk OB?)
- Refer to glaucoma specialist

29 FDA and Glaucoma Medications

- FDA CATEGORY A: Safety established in human studies (no risk to fetus/baby) (NO glaucoma med)
- FDA CATEGORY B: Presumed safety based on animal studies. No human studies. (Brimonidine)
- FDA CATEGORY C: Uncertain safety. No human studies. Animal studies- adverse fetal effects

(Beta blockers, CAI, Prostaglandins, Miotics)

- FDA CATEGORY D: Unsafe. (benefits may outweigh risks, only if no suitable alternative)
- FDA CATEGORY E: Highly Unsafe

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30 Glaucoma Medications and Pregnancy

- Brimonidine (Alphagan-P 0.1%): (FDA category B)
 - May be relatively safe during pregnancy
 - Consider DISCONTINUE in breastfeeding women (may be secreted in breastmilk and cause CNS effects on infants –apnea and hypotension)
- EDUCATE on PROPER administration:
 - Just 1 eyedrop (lowest dose/freq/conc)
 - Immediately close eyes for 5 min
 - Punctal occlusion for 5 min
 - ?Punctal plugs

-

31 Glaucoma Medications and Pregnancy

- Topical beta blockers (Timolol .25%) (FDA category C)
 - Potential side effects: fetal bradycardia, arrhythmia, apnea
 - However, OBs prescribe oral beta blockers for systemic HTN during pregnancy
 - · Can be considered if benefits outweigh risks
 - In UK survey: 45% ophthalmologists named Timolol as #1 choice in pregnant women
 - Discontinue 2-3 days before delivery (reduce neonate brady)
 - Parvaz et al: timolol in breast milk unlikely to cause systemic side effects in healthy baby.
 - -BUT predisposed neonates can have harmful cardiorespiratory events

_

32 Glaucoma Medications and Pregnancy

- Topical CAIs (Trusopt, Azopt) (FDA category C)
 - No reported adverse cases with topical CAIs
 - However, oral CAIs: association with sacrococcygeal teratomas and transient renal tubular acidosis in neonates

-

33 Glaucoma Medications and Pregnancy

- Prostaglandins (Lumigan, Travatan-Z, Xalatan) (FDA category C)
 - Avoid as oral prostaglandins may induce labor

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34 Glaucoma Medications and Pregnancy

- Topical Miotics (Pilocarpine, Carbachol) (FDA category C)
 - Not well tolerated by young phakic patients (induced miosis and ciliary spasm)
 - Possibly better tolerated in pseudophakes
 - Avoid close to delivery, as reports of neonatal hyperthermia/seizures/diaphoresis

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35 PREGNANCY AND GLAUCOMA

Laser Trabeculoplasty:

 SLT, ALT : good alternatives. effect May take 1 month for

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- Glaucoma surgery: (if need immediate lowering IOP, in progressing glaucoma)
 MIGS?, Trabeculectomy, Tube
- THERE IS NO "cookie-cutter" treatment! All treatments need to be individualized!

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36 CASE PRESENTATION

- What is your next treatment step?
 - A. Continue current medications. NO changes.
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 - -G. Refer her to a glaucoma specialist

•

37 CASE PRESENTATION

- My patient who was trying to get pregnant:
 - WE had a lengthy discussion of risks and benefits of all glaucoma treatments.
- · We agreed on the following:
 - -D/C Lumigan
 - -Continue Alphagan-P 0.1% TID OU, with punctal occlusion and eye closure.
 - -Proceed with SLT OU $\,$ (as she was probably high risk of progression , only on Alphagan-P)
 - -If IOP increases or disc heme, or worsening VF, then may need to add other glaucoma meds, or glaucoma surgery.

38 DO NO HARM

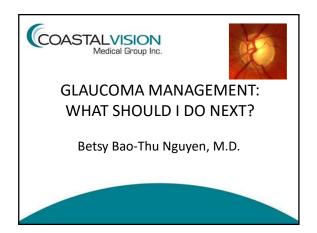
- · NO more than 2 bottles.
- · Individualize patient therapy.
- WE NEED to remember compliance, cost, and effect on patient's life, when we decide our next step in treating our patients.

• Think: Cataract surgery, MIGS, SLT

39 TREATING GLAUCOMA IS AN INEXACT SCIENCE. IT IS AN ART. WE NEED TO CHANGE WITH THE PATIENT'S NEEDS.

- WE NEED to remember compliance, cost, and effect on patient's life, when we decide our next step in treating our patients
- The goal of glaucoma treatment is to <u>preserve vision</u>, *without* adversely affecting the patient's quality of life.

40



CASE PRESENTATION #1

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WHAT IS YOUR NEXT TREATMENT STEP?

COASTALVISION

CASE PRESENTATION

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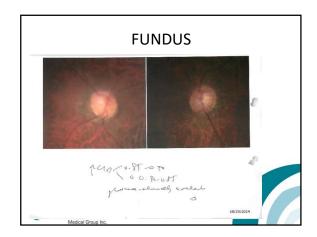
COASTALVISION

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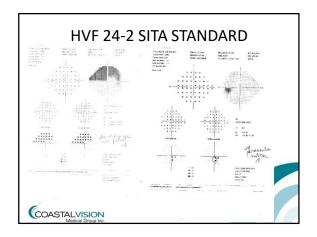
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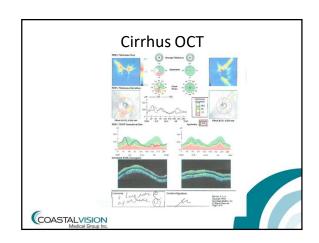
cataracts.





COASTALVISION Medical Group Inc.





GLAUCOMA TREATMENT GOAL: Lowering intraocular pressure consistently with flat diurnal curve = LESS progression

- Our paradigm shift in glaucoma treatment
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 - Shift to switching medications vs. adding medications
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COASTALVISION

GLAUCOMA MEDS LOWERING IOP: MECHANISM OF MEDICATION

- 1) Reduce aqueous humor production
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 - Carbonic anhydrase inhibitors
 - --Alpha adrenergic agonists





GLAUCOMA MEDS LOWERING IOP: MECHANISM OF MEDICATION

- 2) Increase fluid outflow (uveoscleral outflow vs. trabecular outflow)
 - Prostaglandins
- Alpha adrenergic receptor agonists
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- FUTURE: Rho Kinase inhibitors (ROCK), adenosine agonists (trabodenoson)



Prostaglandin analogues are the 1st line /GOLD standard for monotherapy

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- TOLERABILITY TO ONE PROSTAGLANDIN MAY BE DIFFERENT THAN TO OTHERS!
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COASTALVISION

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- Response rate (>3 mm Hg IOP lowering);

COASTAL OF RGs vs 87 % Aqueous Suppressant

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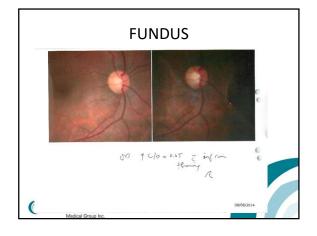
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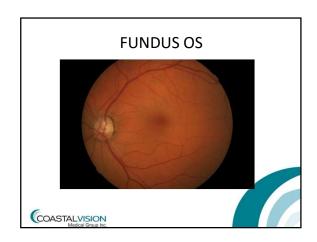


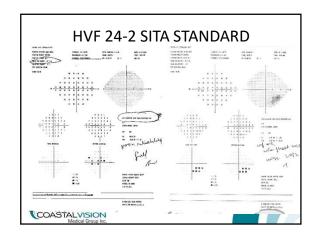
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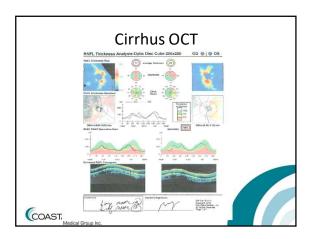
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COASTALVISION

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COASTALVISION cardiorespiratory events

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COASTALVISION

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- Topical Miotics (Pilocarpine, Carbachol) (FDA category C)
 - Not well tolerated by young phakic patients (induced miosis and ciliary spasm)
 - Possibly better tolerated in pseudophakes
 - Avoid close to delivery, as reports of neonatal hyperthermia/seizures/diaphoresis



COASTALVISION

PREGNANCY AND GLAUCOMA

- Laser Trabeculoplasty:
 - SLT, ALT : good alternatives.
 May take 1 month for effect



- Glaucoma surgery: (if need immediate lowering IOP, in progressing glaucoma)
 - MIGS?, Trabeculectomy, Tube
- THERE IS NO "cookie-cutter" treatment! treatments need to be individualized!



COASTALVISION

CASE PRESENTATION

- What is your next treatment step?
 - $\boldsymbol{\mathsf{-}}\ \mathsf{A.}\ \mathsf{Continue}\ \mathsf{current}\ \mathsf{medications}.\ \mathsf{NO}\ \mathsf{changes}.$
 - B. Stop all topical medications.
 - C. Stop Lumigan & continue Alphagan-P. Educate immediate eye closure & punctal occlusion for 5 minutes.
 - D. Stop current medications & change to Combigan.
 Educate immediate eye closure & punctal occlusion for 5 minutes.
 - E. Laser trabeculoplasty
 - F. Glaucoma surgery (MIGS, trabeculectomy or tube
 - G. Refer her to a glaucoma specialist

COASTALVISION

CASE PRESENTATION

- My patient who was trying to get pregnant:
 - WE had a lengthy discussion of risks and benefits of all glaucoma treatments.
- · We agreed on the following:
 - -D/C Lumigan
 - -Continue Alphagan-P 0.1% TID OU, with punctal occlusion and eye closure.
 - -Proceed with SLT OU (as she was probably high risk of progression, only on Alphagan-P)
 - -If IOP increases or disc heme, or worsening VF, then may need to add other glaucoma meds, or glaucoma surgery.



DO NO HARM

- · NO more than 2 bottles.
- Individualize patient therapy.
- WE NEED to remember compliance, cost, and effect on patient's life, when we decide our next step in treating our patients.
- Think: Cataract surgery, MIGS, SLT

COASTALVISION

TREATING GLAUCOMA IS AN INEXACT SCIENCE. IT IS AN ART. WE NEED TO CHANGE WITH THE PATIENT'S NEEDS.

- WE NEED to remember compliance, cost, and effect on patient's life, when we decide our next step in treating our patients
- The goal of glaucoma treatment is to preserve vision, without adversely affecting the patient's quality of life.





THANK YOU!!

QUESTIONS:
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COASTALVISION

CURRICULUM VITAE

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CURRENT PRACTICE

2000 - Present: Private Practice, Ophthalmology

2000 - Present: Consultant/Research for USC, Dept of Ophthalmology

LICENSES & CERTIFICATIONS

11/19/2000 Board Certified, Diplomate, Ophthalmology (Effective through 12/2020)

06/06/1997 Medical Board of California licensed (Exp date = 10/31/2016)

1997 DEA licensed (Exp date = 10/31/2017)

2004 - 2011 LOCS III certified

EDUCATION & POSTGRADUATE TRAINING

1999 - 2000 : Clinical Fellowship, Glaucoma & Clinical Instructor

Preceptors: Robert L. Stamper, MD and Marc F. Lieberman, MD

University of California, San Francisco (UCSF) & California Pacific Medical Center

1996 - 1999: Residency, Ophthalmology (worked with Joseph Caprioli, MD, Anne

Coleman, MD & Roy Wilson, MD)

Jules Stein Eye Institute at UCLA

1995 - 1996: Internship, Preliminary Medicine

UCLA – San Fernando Valley

1991 - 1995 : M.D. degree, Alpha Omega Alpha Honor Society (top 10% of class)

UCLA David Geffen School of Medicine

1989 - 1991 : B.S. Biological Sciences, Magna cum laude

University of California, Irvine

1987 - 1989: Dean's Honors List & UC Regents Scholar

University of California, San Diego

HONORS & AWARDS

1999: ARVO Travel Fellowship, National Eye Institute

1995: Alpha Omega Alpha Honor Society, UCLA School of Medicine

1991: Edward Mittleman Scholarship, for academic excellence in Biological Sciences

1991: Magna Cum Laude, University of California, Irvine

1989: Phi Beta Kappa Honor Society, University of California, Irvine

1989: UC Regents Scholarship

1987 – 1991: Dean's Honors List

1987: High School Class Valedictorian, Irvine High School

PROFESSIONAL MEMBERSHIPS

American Academy of Ophthalmology, American Society of Cataract and Refractive Surgery,

California Medical Association, California Academy of Eye Physicians & Surgeons, Orange County Ophthalmology Society

OTHER ACTIVITIES

| 2000-2006 | Team Eye Doctor for the National Champions Anaheim Angels |
|-----------|---|
| 2000-2006 | Team Eye Doctor for the Division Champions Anaheim Mighty Ducks |
| 2002-2012 | Consultant for Allergan |

RESEARCH EXPERIENCE, PRESENTATIONS & PUBLICATIONS

| RESEARCH | EXPERIENCE, PRESENTATIONS & PUBLICATIONS |
|---------------|---|
| 2013-2015 | Researcher for USC – Collaboration with Chinese American Eye Study |
| | (CHES). Collaborate with Rohit Varma, MD. |
| 2012 | Baseline risk factors that predict the development of open-angle glaucoma in a |
| | population: the Los Angeles Latino Eye Study. Ophthalmology. |
| | 2012 Nov;119(11):2245-53. |
| 2012 | Four-year incidence of open-angle glaucoma and ocular hypertension: the Los |
| | Angeles Latino Eye Study. Am J Ophthalmol. 2012 Aug;154(2):315-325. |
| 2011 | "Population and High Risk Group Screening for Glaucoma: |
| | The Los Angeles Latino Eye Study", Invest Ophthalmol Vis Sci. 2011 August; |
| | 52(9): 6257–6264. |
| 2000 - 2012 | Researcher for USC – Collaboration with Los Angeles Latino Eye Study |
| | (LALES). Collaboarate with Rohit Varma, MD and Brian Francis, MD. |
| 2005 | Screening for Glaucomatous Optic Nerve Damage: The Los Angeles Latino |
| | Eye Study. ARVO Abstract. Invest Ophthalmol Vis Sci 2005;46: E-Abstract |
| | 2499. |
| 2004 | "Prevalence of open-angle glaucoma and ocular hypertension in Latinos: the |
| | Los Angeles Latino Eye Study", Ophthalmology, 2004 Aug; 111(8):1439-48. |
| 2003 | Prevalence of Open-Angle Glaucoma and Ocular Hypertension in Latinos. The |
| | Los Angeles Latino Eye Study (LALES) . ARVO Abstract. Invest Ophthalmol |
| | <i>Vis Sci</i> 2003;44: E-Abstract 317 |
| 2000 - 2012 | Researcher for USC – Collaboration with Los Angeles Latino Eye Study |
| | (LALES) . Collaborate with Rohit Varma, MD. |
| | : Schering study (LOCS III Certified) |
| | : TAKEDA study (LOCS III Certified) |
| 2003 | Advanced Glaucoma Training DVD, for Allergan |
| 1999 - 2000 : | Evaluation of computerized optic discs to determine stability vs. progression of |
| | glaucoma, under Robert L. Stamper, MD, Chief of Glaucoma, UCSF. |
| 1998 - 1999 : | Retrospective longitudinal study of progression of glaucoma, using |
| | multivariate analysis of serial visual fields, stereoscopic disc photographs, and |
| | confocal laser imaging, under Joseph Caprioli, MD, Chief of Glaucoma, |
| | UCLA Jules Stein Eye Institute. |
| | ARVO paper presentation, "Identification of Glaucoma Progression Through |
| | Combined Use of Quantitative Structural and Functional Measures", May |
| | 1999. |

orbital implants, under Robert A. Goldberg, MD, Chief of Oculoplastics,

1995 - 1997 : Development of quantitative methods for evaluation of socket motility of

- UCLA Jules Stein Eye Institute.

 <u>Poster presentation</u>, Jules Stein Eye Institute Research and Alumni Day, 1998.
- 1992 1993 : Investigation of traumatic optic neuropathy in a rat model, under Robert A. Goldberg, MD & Kenneth Steinsapir, MD, UCLA School of Medicine. <u>Poster presentation</u>, "Dynamic Changes in Cerebral Glucose Metabolism Following Optic Nerve Trauma", at Neuroscience, 1992.
- 1989 1991: Investigation of the effects of glycation on the function of the sodium-potassium pump, under Margaret H. Garner, PhD ,UCI School of Medicine.
 Publication, "Na,K-ATPase of Cultured Bovine Lens Epithelial Cells: H2O2 Effects", Experimental Eye Research, 1992 Mar, 54 (3): 321-7.
 Poster presentation, "Glucose Control, by Nonenzymatic Glycation of Na,

K-ATPase Function in the Nondiabetic", FASEB 1991.

References available upon request.