Greg A. Caldwell, OD, FAAO **Optometric Education Consultants** Friday, February 25, 2022

Disclosures- Greg Caldwell, OD, FAAO

- The content of this activity was prepared independently by me Dr. Caldwell Lectured for: Alcon, Allergan, Aerie, BioTissue, Kala, Maculogix, Optovue, RVL, Heru Advisory Board: Allergan, Sun, Alcon, Maculogix, Dompe, Visus, Eyenovia
- Envolve: PA Medical Director, Credential Committee Healthcare Registries Chairman of Advisory Council for Diabetes
- I have no direct financial or proprietary interest in any companies, products or services mentioned in this presentation
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Agenda Thanks for the Opportunity

- ar My ocular disease focus to prevention
- ar Ocular diseases from oxidative stress
- Ar Evidence based medicine proves antioxidant intervention
- Ar Measuring carotenoids
- Ar Phospholipid bilayer membrane damage and protection
- Artial versus total supplementation
 - * Inner and outer retina
 - * Ocular supplements or full body

Optometry Recommendation

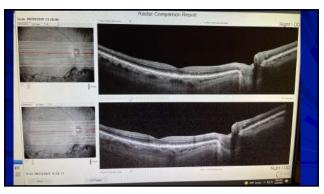
- Ge∕ DHA/EPA
- ↔Omega 3 or 6
- a.∕ Lutein
- *⊶*∕Zeaxanthin
- Ar Lutein/Zeaxantin
- Ger AREDS2
- ↔ AREDS2 with anti-VEGF

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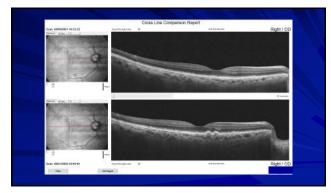








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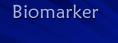
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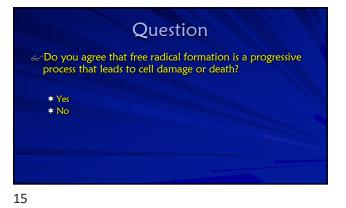
ArTest that has meaning

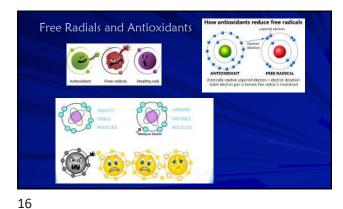
⊶∕Biomarker

- Arrow Biological molecule found in blood, other body fluids, or tissues that is a sign of a normal or abnormal process, or of a condition or disease.
- A biomarker may be used to see how well the body responds to a treatment for a disease or condition
- a/Blood pressure, heart rate, genetic testing, IOP

Predictive Biomarker

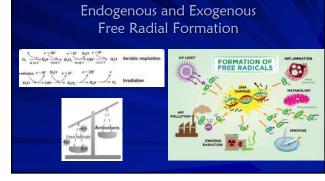
- ↔ Used to identify individuals who are more likely to respond to exposure to a particular medical product or environmental agent
- A The response could be a symptomatic benefit, improved survival,
- or an adverse effect
- Arr A value that we can guide therapy around
 - * HbAlc
 - * C-Reactive Protein
 - * Plasma Homocysteine
 - * Vitamin D (25-HydroxyD)* Omega 3 index
 - * Carotenoid













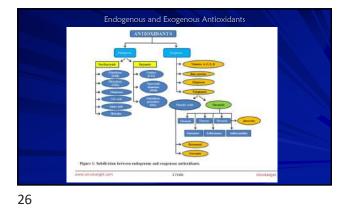


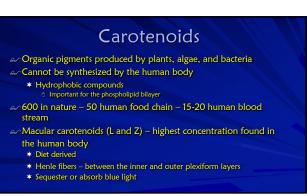




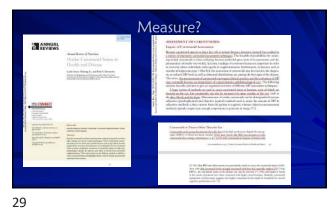


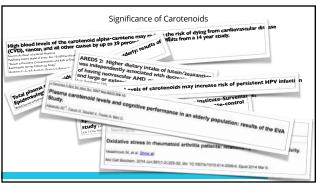




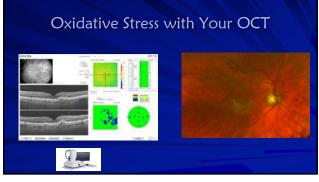






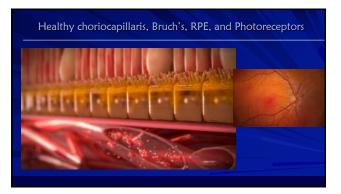




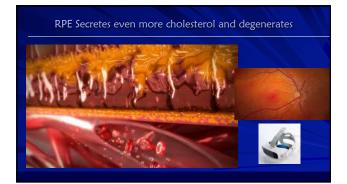


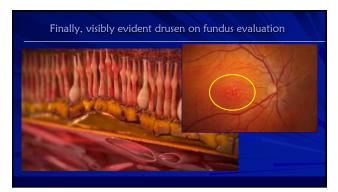


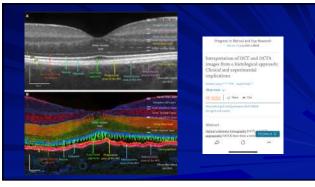


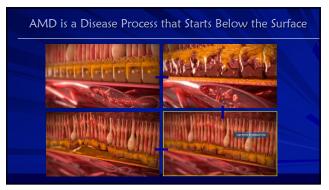




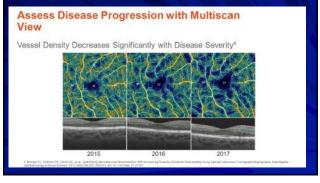


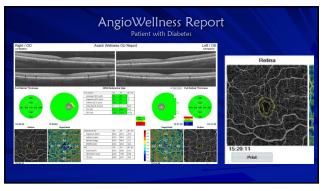


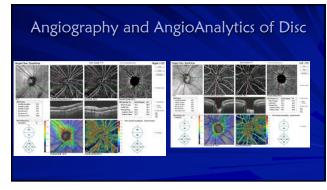


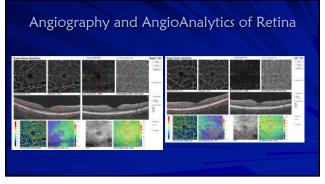




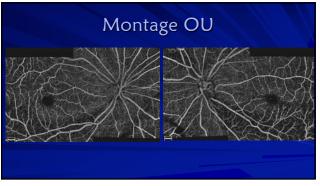










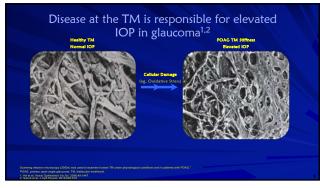




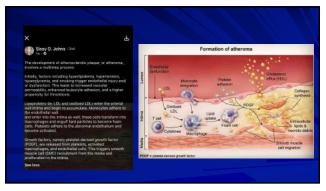
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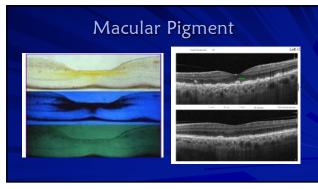
| Treatments for AMD | | | | | | |
|---|--|--|--|--|--|--|
| ↔ Early detection and meaningful treatments with significant value, do not cure, but have been shown to slow or halt progression. Not limited to early stages but all stages of AMD | | | | | | |
| Prescribe smoking cessation programs Smoking and AMD - Depletes serum antioxidants - Decreases pigmentary density | | | | | | |
| - Increases risk to advanced AMD Lifestyle changes Diet | | | | | | |
| Erercise Systemic disease management Grdiovascular disease, DM, obesity, high cholesterol | | | | | | |
| 51 | | | | | | |

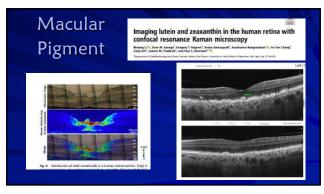


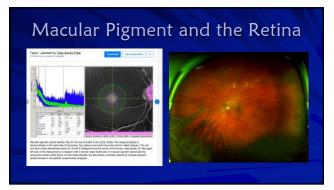




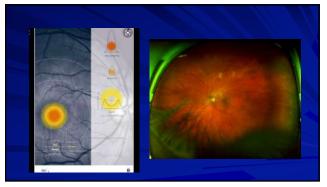
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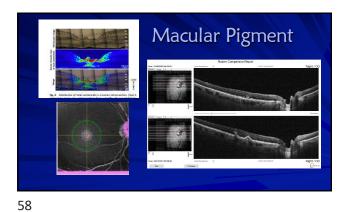


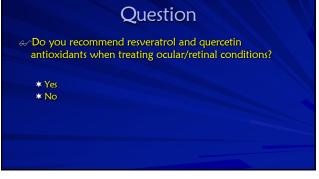




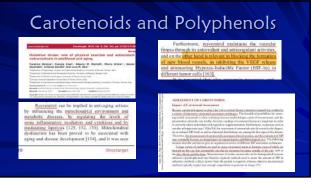


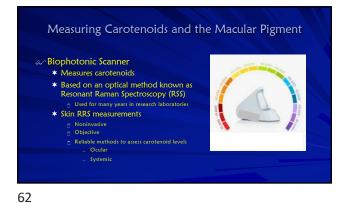


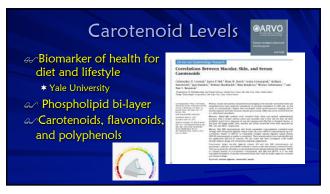






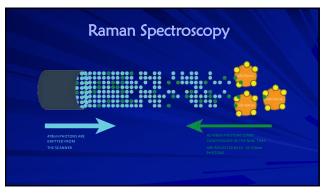


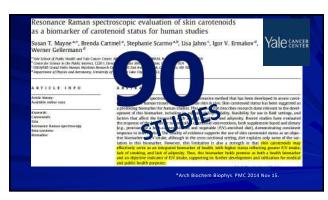






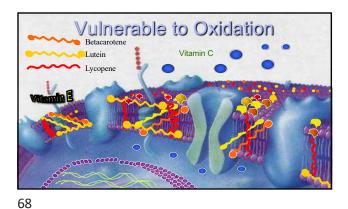




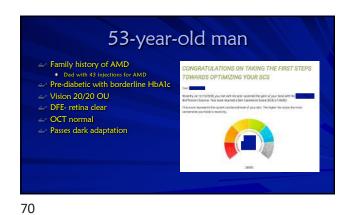






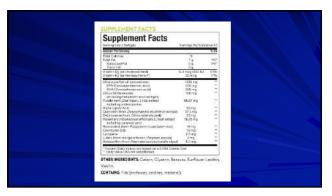




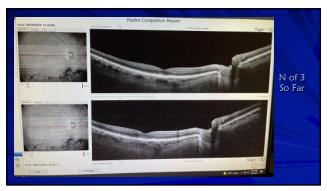


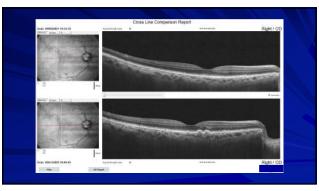
| Ingredients | | | Exister Associate | 250 mg | 1. |
|--|---------------------------------|--|---|------------------|------------|
| | | | lodine pis Polassium kadidei | 50.902 | 135 |
| <u> </u> | <u> </u> | 8 | Magnesikam (zo Megnesium Glycinete, Magnesikam Gkide) | 125 mg | pic/s |
| ingredients. | Ferrount | Daily | Zinc jai Zinc Boghtinaka | 25 mp | 156 |
| | | Value | Selenium (et L-Selenomethumine, Sostum Selenite) | \$9 minu | 127 |
| Serving Size: 1 Packeri | | | Copper las Copper Biglychater | du eq | B61 |
| Marrie A (835. as Sola Carolone (1875 mcg BAE) hore Biolesian toporo, and Warren A paintate) (375 mcg Babi | 2250 mcg RAE | 250% | Mangonese las Manganese Bisglychiatel | 8.00 | 601 |
| | | | Etroman (a. Oromium Nextman Opcinate). | \$00mil | 218 |
| 12794 - | 1.000 | hand 1 | Moybdenani jas Nolybdenam Bisglyceatel | 17.5 mcg | 101 |
| Mamin C (ss Caldum Ascerbeta) | | 212% | Polyphenal and Floetenaid Blend | \$75,44 | 1 |
| Miamin D (ss Chubecalching) | 5 mcg. | 255 | Catechine (from Contellio sciencis: Last Extract) | (45 mg) | E |
| | 200 K.A | <u> </u> | Duercetim | [25 mgl | T |
| Marrier E Jas D-Alpho-Tecophoryl Acetata, D-Alpha Executional, Tecophorybi | 583 mg | 2155 | Stape Soud Extract (ner, HS's Polytheroits | 12.5 mp | 1 |
| Starsin K ias Phytometranel | Di nto | tion of the second | Citrus Biofleconoide (horn Citrus Fruite) | \$2.5 mid | T |
| Praeran K (as Projectorclate) Praeran les Thismino Monordiotes | 0.75 mg | | Reconstruct from Polyponum completium root enhants | 12.5 mg | 1 |
| | | | Mixed Toyspherois (Genere, Dutte & Bete Tocopherols) | \$3.mg | 1 |
| Riseflevin jas Riseflevinj | 4 21. 110 | P27% | Wpha-Llock: Add | M-mg | r |
| Nocin Ias Nocinamétri | 17.5 mg | 8095 | Braufazi (an breufazi) | \$ mg | 1 |
| Vianat BK IN: Peridoxine Hudiot Mattdee | E ing | 0.615 | Caratenois Bienit | 3.5 veg | 1 |
| Arraum die bie wiedmone witchonzeite | | and the second s | Lycoperei (au Lycoperei) | (2.5 mg) | T |
| Pulate | 07E (300 vice fullo acid] | | Juten drove Margaid Flower Exhants | Real Contraction | 1 |
| | | 125% | Bonn ún Beren Chatel | #ting | T |
| | | | Monadium (as Vasiarily) Sulfate) | \$5 mcg | 1 |
| Marrier B12 cos Cyonocebellamina | 15 mcg | 629% | CITY ER PEGREDRATS Gesain, Microcrystaline Celuline, Crownersellose | | |
| Biotini (ka Biotini) | 75 mag | 25675 | Sodian, Storic Acid, Magnesian Shoreth, Silicon Dioxide. | TIDIKUM IIA | 000 |
| Participenic Acid tes D-Caroline Pasticipenites | at mg | 800% | CONTAINS FILLICUS Patiesk Haddook Hake Cusk Perdish Sale Pauliter | | |
| Existen (es Gélder Carbanille, D. Gelster Melane, Existen Ascerbore) | 250 mg. | 99% | - CONTINNS HILF (COL PRINCE, REDOL OF PERIC CLIA, 1970) | IK. 2010. P.K | 1410 |

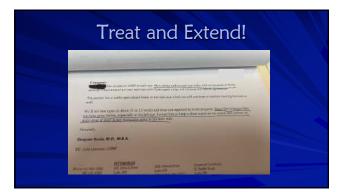
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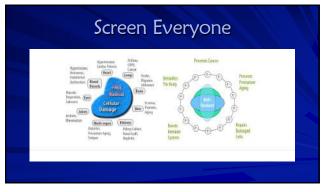


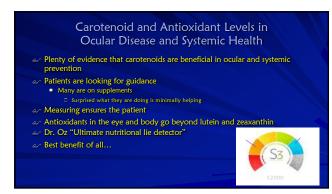
















Thank You for This Opportunity

&∽Do it for: ★Yourself ★Your family ★Your staff

*Your patients



