Title: Retina Update 2024 and Beyond Author: Jeffry D. Gerson, OD, FAAO

Summary: With so many advancements over the last 18 months and even more expected over the next 24 months, it is hard to keep track of what is available to our patients and our practices. This course will not only go over newer technologies/treatments that are already available but also those that may be coming. Time will be spent to put these changes into perspective and how they fit into our practices in a practical way.

## Goals:

- 1. Discuss treatments that are newly approved in retina care and how they affect patients and practices.
- 2. Discuss treatments and technologies in the retina pipeline that we should know about before they get to market.
- 3. Become familiar with conditions that have new treatments in a way to be able to explain to patients.

## Outline:

Direct to consumer marketing

Retina companies with TV commercials

Influence on patients and their inquiries

Influence on doctors and need for knowledge

#### Photobiomodulation

Definition of PBM

Specific wavelengths for specific conditions

Science behind

Conditions in which it can/may be able to be used

Ocular

Non-ocular

PBM in macular degeneration

LightSite 1

LightSite 3

Efficacy and safety results

Use in Europe and other countries

#### Al in retina

Digital image capture and interpretation

Levels of interpretation and usefulness

Al in eyecare in general and how it can relate to retina

Al to help get to a diagnosis

Approved devices/algorithms in diabetes

Fundus camera add-on

Hand held portable instrument

Billing implications

Implications to primary care

# Does this constitute an eye exam? HEDIS

Digital Home monitoring

Foresee Home

**HOME** study

Aloft study

Scanly

Studies for US approval

Implications for AMD treatment

TXE vs metrics based

**GA** treatment

Complement cascade

Complement inhibition

C3

C5

Vitamins in AMD

AREDS2 10 year

AREDS2 for GA

Melatonin and AMD

Biosimilar

Definition

General medicine

Retina

Efficacy

Cost

RegenexBIO

Adeno-associated viral vectors

Genetic "engineering" for treatment

Altering gene expression without causing disease

Extended duration

Anti-VEGF injections

Increased concentration of "old" drug

Bi-Specific molecules

More than one pathway

Longer duration leading to less burden

Port

**SUSVIMO** 

Approval/removal/approval

Efficacy

Alternate delivery of Anti-VEGF

Oral

Topical

Stem Cells

No FDA approved treatment for retinal disease with stem cells

NEI study ongoing
Potential finish date and implications
Tricor for NPDR

Studies leading to approval in Europe/Australia
Outcomes and decrease in need for more treatment
When to initiate
DRCR ongoing study