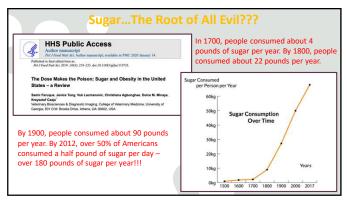
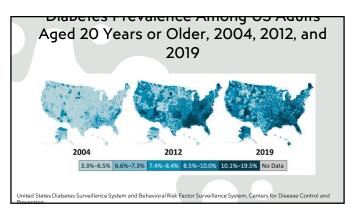
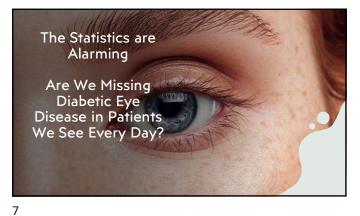


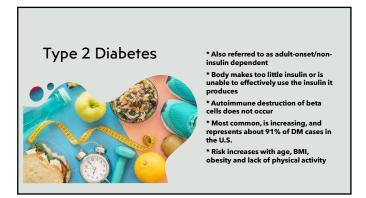
Prevalence and Incidence of DM (2015 data)





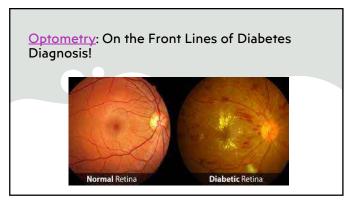






Some Additional Subtypes of Diabetes Refers to a form of glucose intolerance with onset during 2nd or 3rd trimester Blood Glucose levels below the criteria for Diabetes Caused by hormones secreted during Increased risk for developing Type 2 pregnancy Age, race, hypertension, obesity and dyslipidemia increase risk of progressing Glucose tolerance typically returns withing 6 weeks of delivery to Type 2 Increases risk for developing Type 2 (35-A1c between 5.7 and 6.4 percent is 60 percent within the subsequent 10-20 considered Prediabetes

9 10



Structural Testing for Diabetes Slit Lamp Biomicroscopy Fundus Photography Ultra-Widefield Fundus Imaging OCT (primarily for DME) Angio OCT

11 12

Using the Greatest Tools/Technology to Grade Diabetic Retinopathy

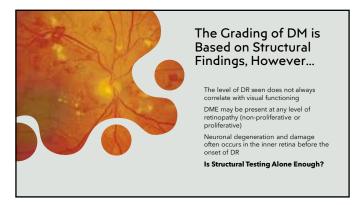
Nonproliferative DR

- Does not present a threat to vision
- Mild NPDR: at least one microaneurysm
- Moderate: hemes/MA is 1-3 quadrants or mild soft exudate, venous beeding/IRMA
- Severe: "4-2-1"Rule (H/MA in 4, VB in >/=2, prominent IRMA in at least one)
- Very Severe: 2 or more severe criteria are met 75% risk of PDR in one year

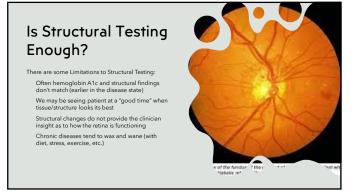
Proliferative DR

PDR characterized by NVD or NVE <u>High-Risk PDR</u>: characterized by presence of 3 of the 4 risk factors for severe visual loss:

- Pre-retinal or vitreous hemorrhage
- Presence of new vessels
- New vessels on or near the disc (NVD)
- Presence of moderate or severe new vessels



13 14



Functional Testing in Diabetes Management

Hitti Pierre Pi

TOZ

LPED

15 16

Traditional <u>Functional</u> Tests for DM

Visual Acuity

Contrast Sensitivity

Visual Field (?)
Amsler Grid (DME)

Preferential Hyperacuity Perimetry (PHP) - used primarily for AMD

Rapin Cone Test

VRSKDR NHCSOK SCNOZV

Limitations of Traditional Functional Tests

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PECFD

EDFCZP

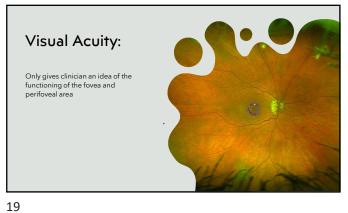
COTEC

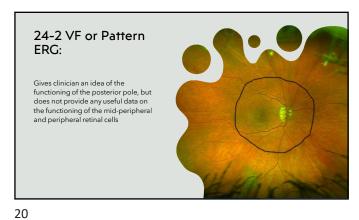
Often show changes in visual functioning late in the disease process

Tend to focus on the functioning of a small area of the retina

Subjective and patient dependent - patient response is required

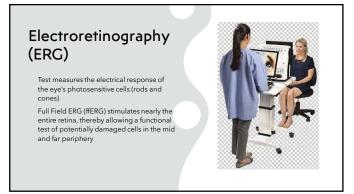
17

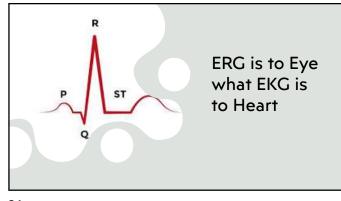


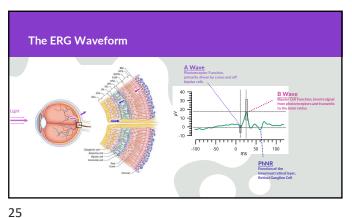


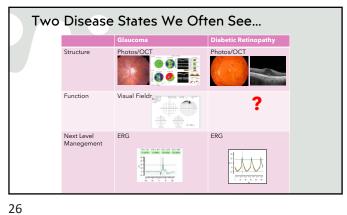


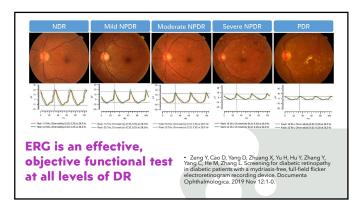


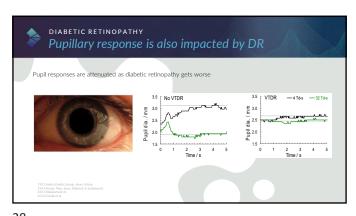






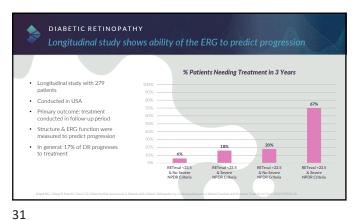


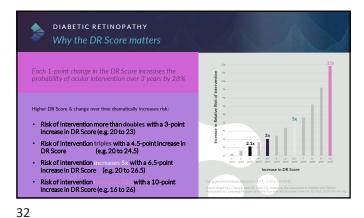




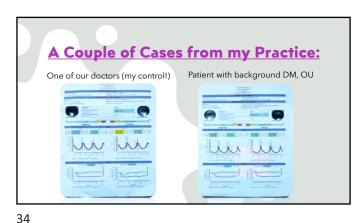




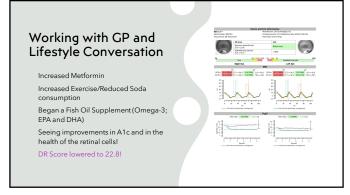




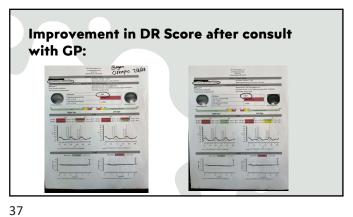


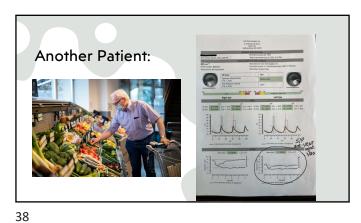


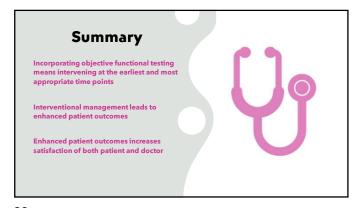
Adding the DR Score to the Clinical Picture Allows for an Informed Management Plan A DR Score over 23.5 must be monitored more closely!

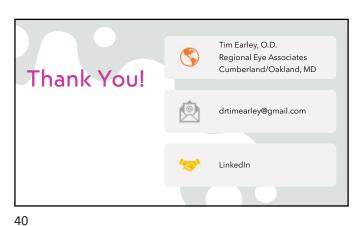


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Addressing Structural Puzzles in Diabetic Eye Disease

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