On behalf of Vision Expo, we sincerely thank you for being with us this year.

Vision Expo Has Gone Green!

We have eliminated all paper session evaluation forms. Please be sure to complete your electronic session evaluations online when you login to request your CE Letter for each course you attended! Your feedback is important to us as our Education Planning Committee considers content and speakers for future meetings to provide you with the best education possible.

vision expo

1

Financial Disclosure

Michael Gatti is an employee of HOYA Vision Care.

All relevant relationship have been mitigated.

2

Enhancing The Opticians Arsenal

Exploring Digital Fitting Measurements

3

Objectives

1. **Review standard fitting techniques and their limitations**
2. **Understand the benefits of advanced digital fitting measurements**
3. **Utilize this technology to enhance your patient's experience and improve accuracy**

4

4

Lens Measurements

Standard Measurements

- Frame measurements
- Horizontal measurements
- Vertical Measurements

5

5

Lens Measurements

Standard Measurements

- Frame measurements
  - A
  - B
  - ED
  - DBL

6

6

Lens Measurements

Standard Measurements

- Horizontal measurements
  - Pupil Distance (PD)
    - Monocular
    - Binocular
  - Tools

7

7

Lens Measurements

Standard Measurements

- Vertical measurements
  - Optical Center (OC)
  - Segment (Seg. Ht.)
  - Fitting

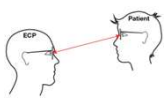
8

8

Lens Measurements

Parallax Error

- Eye level is important
- 1" = almost 2mm



9

Lens Measurements

Enhanced Measurements

- Position of Wear (POW)
  - Vertex
  - Pantoscopic angle
  - Wrap angle

10

10

Lens Measurements

Enhanced Measurements

- Vertex
  - Front of eye – back of lens
  - Affects power
  - Further away = more plus

11

11

Lens Measurements

Enhanced Measurements

- Pantoscopic angle
  - Vertical lens angle
  - Changes OC height
  - Changes effective Rx
    - Induces astigmatism

12

12

Lens Measurements

Enhanced Measurements

- Wrap angle
  - Face form
  - Changes PD
  - Changes effective Rx
    - Induces astigmatism
    - Induces prism

13

13

Lens Measurements

Prescription Powers

- Prescribed power
- Compensated power
- Effective power

14

14

Refractive Lenses

Lenses in a phoropter

- Small in diameter
- Flat in profile
  - 0 Base curve
  - 0˚ Panto angle
  - 0˚ Wrap
- Perfect circles

15

15

Eyeglass Lenses

Lenses in a frame

- Large in diameter
- Varies in profile
  - 9 - 20 mm vertex
  - 5 - 10˚ Panto angle
  - 4 - 10˚ Wrap
- Various sizes and shapes

16

16

Digital Measuring

Frame Selection

- Great for high myopes
- Compare frame styles
- Share with family and friends

17

17

Digital Measuring

Lens Demos

- Lens thickness
- Progressive designs
  - Occupational designs
- AR Treatment
- Polarized Lenses
- Photochromic and tints

18

18

Digital Measuring

Augmented Reality

- Real world example
- Compare PAL quality
- Simulate treatments and coatings
- Create realistic expectations

19

19

Digital Measuring

Digital Measurements

- With or without frame device
- Easy to use
- Accurate POW measurements
- Identify optimal corridor length
- Reduce cut-out issues

20

20

Digital Measuring

Integration

- Syncs to many EMR systems
- Reduces input error
- Increases efficiency
- Saves patient history

21

21

Digital Measuring

Practice Benefits

- WOW factor
- Increased efficiency
- Increased revenue
- Higher premium lens sales

22

22

Digital Measuring

Summary

- Standard measurements are standard
- Digital lenses prefer digital measuring
- Patient experience is crucial
- Win-win for both parties

23

23