Slide 1	-
---------	---

Basic Dispensing for the Paraoptometric Assistant

Alex Yoho, ABOM

Slide 2

A Completed Form

- Patient's Name
 Patient's PD
 Lens Type
 Lens Material
 Fitting height
 Coatings and tints
 Frame information
 Frame status
 Check account info



Slide 3

Patient's PD

A traditional method of taking the interpupillary distance

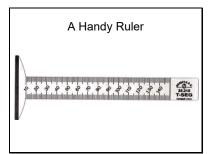




Slide 5

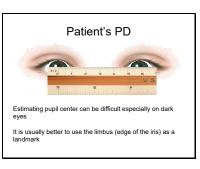
Corneal Reflection Pupilometer • Essilor

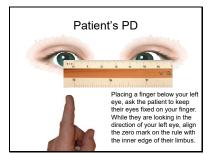
- Pupilometers are more consistent and more accurate than the PD rule.
 Pupilometers measure the corneal reflex and hence the distances between the visual axes and not just the pupil centers. This is why the pupilometer appears to read narrow.
 Pupilometers have been shown to reduce reject rates for progressive lenses in practices which have changed from the PD rule to the pupilometer.
 Pupilometers look more professional and give the patient a greater perception of accuracy when filling his/her Rx greater perception of accuracy when filling his/her Rx.
 Pupilometers eliminate parallax errors, which are almost unavoidable when your PD differs appreciably from the client's.
 Pupilometers alke monocular PDs quickly, easily and accurately.
 Pupilometers allow you to take near PD measurements for a range of working distances.
 Pupilometers allow you to occlude one of the patient's eyes while taking measurements of someone with strabismus.
 PD rules are great for measuring almost anything other than a PD. They are fine for trames; perhaps we should be calling them frame rules.



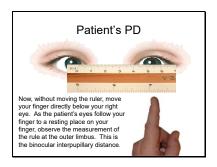
Slide 8

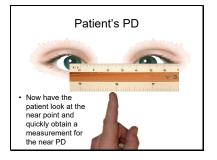


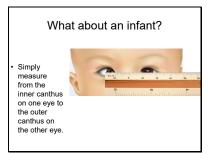




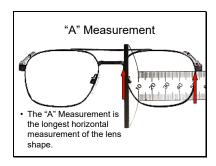
Slide 11

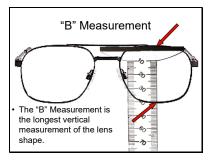


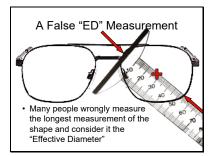




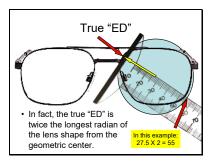
Slide 14

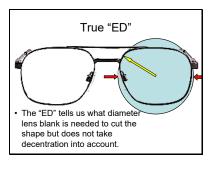


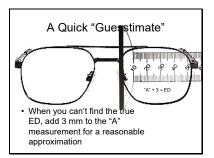




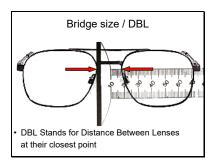
Slide 17

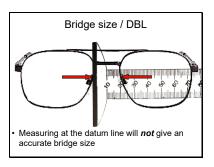






Slide 20





Fran	ne PD
Note how the "T" rule with its extended zero point can give a very accurate frame PD	
•The "Frame PD" is act & the DBL added t	ually the "A" measurement together
•This measurement is of much to decenter	

Slide 23

Calculating Decentration

- A+DBL= Frame PD
- Frame PD Patients PD = Decentration

Slide 24

Checking Progressives for Cut-Out

- Place a dot on the sample lens exactly at the patient's pupil.
 Place the lens on the chart with the pupil dot on the cross.



S	lid	ما	2	Ц
9	II U		_	_

Measuring for frame selection

- Selecting a frame intelligently demands that you know:
- The patient's PD
- The frame PD
- Why?



Slide 26

Measuring for frame selection

• It really makes a difference in lens thickness



Slide 27

Choosing the right frame size to keep lenses thin



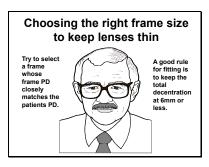
The weight and thickness are proportional to the size of the lens



The knowledge of the frame stylist must be conveyed to the patient

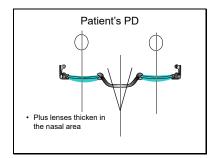
Choosing the right frame size to keep lenses thin The need for decentration is eliminated and the lens is the same thickness on each edge. Lens thickness due to decentration

Slide 29



Slide 30

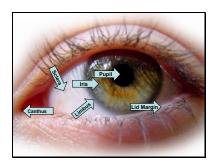
Patient's PD • Why do we take a PD? • To position the lens correctly before the eye • Note how the lenses thicken with decentration



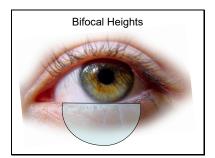
Slide 32

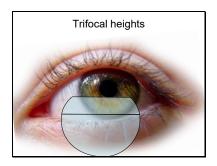
Summary Checklist for Keeping Lenses Thin

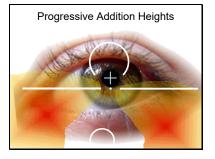
- ·Small frames make for thin lenses
- •Decentering lens to match PD creates thickness.
- ·Use High Index Materials
- •Use Aspheric Lenses



Slide 34

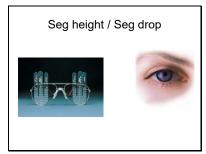




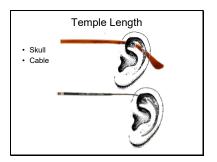


•			

Slide 37







Selecting Eyewear With a Purpose

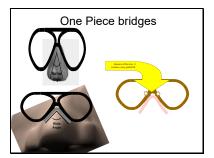
- Analyze the prescription to determine limiting factors, and opportunities to correct them.
- Know the patients interpupillary distance. Consider how it will impact the frame selection.
- Determine the visual lifestyle needs of the patient, i.e. safety, occupation, recreation, hobbies.

Slide 41

Selecting the Proper Bridge

- Do not allow the patient the opportunity to become fond of a frame until you have made sure that maximum contact is possible
- Place the nosepad between the ridge of the septum and the eye







Slide 44

Universal Frame Alignment



Slide 45

UNIVERSAL ALIGNMENT (Use the system!)

•Start with the bridge

- Check for "x-ing"
- Make sure lenses are coplarar.
- Check for frontal alignment.
- Ahways double check previous adjustments.
- Make nose pads even.

•The Endpiece

•Temples should be square with front. (X axis)
•Temples should lay flat. (Y axis)
•Temples should fold well. (Z axis)

•The Eyewire

*Check for rolling,

*Look for Pressure points.

*Make same the barrels are closed.

*Make same the eyewire follows the bevel (base curve).

•The Temples

Must but well at hinge.
 Shank may be curved.
 40mm bend standard.

,		

FITTING FROM A UNIVERSAL ALIGNMENT

 A good fit is usually determined by the patient as a comfortable fit that will not slide down the nose.

•As you pull the eyewear forward they should catch the ears evenly.

If the pressure is even, there will be a balance that creates no pressure at all on the sides of the nose.

Slide 47





Slide 48

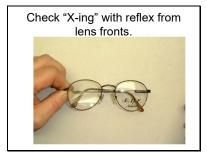
Universal Frame Alignment

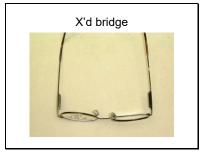
Beginning at the bridge, and aligning the frame to the very tips of the temples provides the basis for a perfect fit.





Slide 49

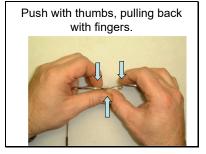


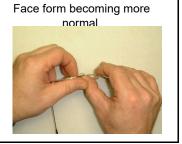




Slide 52







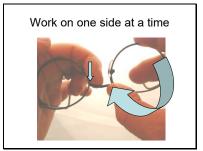
Slide 55

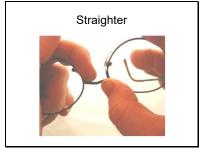


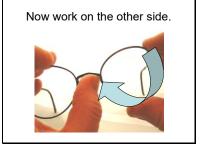


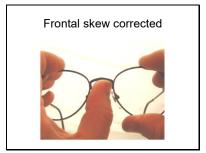


Slide 58

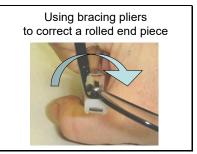


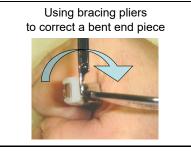






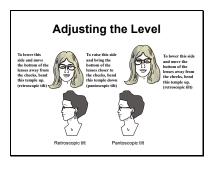
Slide 62



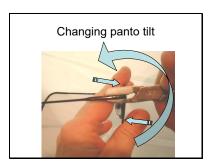


Slide 64

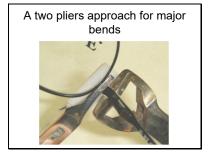




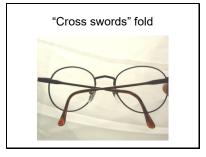
Slide 66



Slide 67



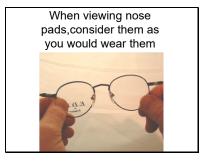




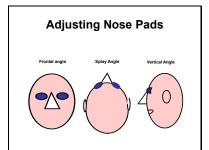


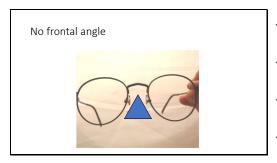
Slide 71

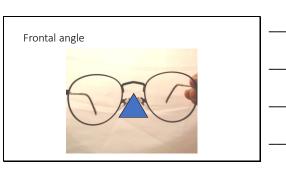




Slide 73







Slide 76 Splay angle Slide 77 No splay angle Slide 78 Vertical angles

Slide 79		
	Narrowing Nose Pads	
	Moves pad position up and out	
	Frame position follows	
Slide 80		
	Holding the pad like a key, Turn the top toward the center.	
	Turn the top toward the center.	
Slide 81		
Slide 81	Now push the bottom inward.	
	G. A.	

Slide 82	The narrowed nose pad	
Slide 83	Widening pads • Moves pad position down and in • Frame follows pad position	
Slide 84	Holding the pad like a key, angle the top outward.	

Slide 85	Now push the bottom in with your thumb.	
SI'de OS		
Slide 86	Widening completed.	
Slide 87	Frame Position • To raise frame – lower pads • To lower frame – raise pads • Do <i>NOT</i> Change the width between pads!	

Slide 88		
	Lowering nose pads	
Slide 89	Open the pad arm bend.	
Slide 90		
Shac 30	Grip the pad arm close to the weld.	

Slide 91	Tighten the curl by pushing the pliers toward the frame while turning.	
Slide 92	Lowering completed.	
Slide 93	Raising nose pads • To lower frame – not change pad position	

Slide 94		
	Open the bend.	
Slide 95	Apply the pliers close to the pad.	
Slide 96		
Slide 90	Apply upward pressure with the pliers as you tighten the bend.	

Slide 97	Pad has been raised	
Slide 98		
Shac 30	Questions	