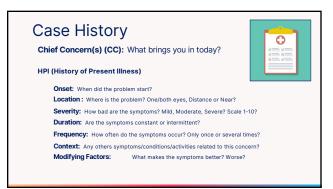




**Visual Function Tests** Pre-examination Tests Case History Confrontation Tests Phoropter Tests O Refraction O Accommodation O Binocular Vision

10

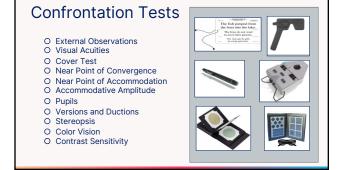


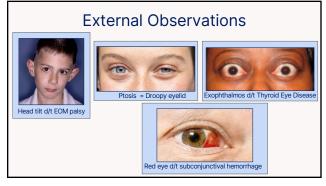


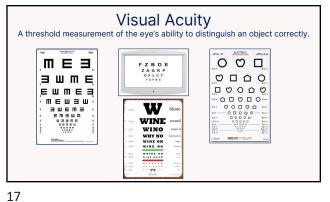
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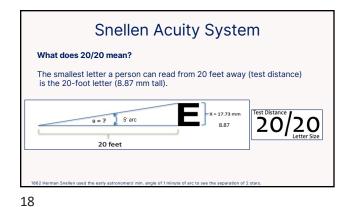


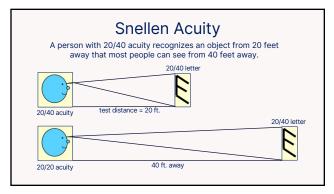


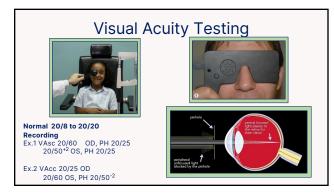


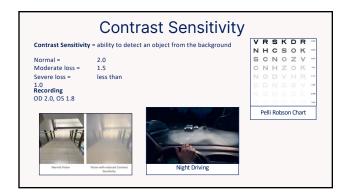


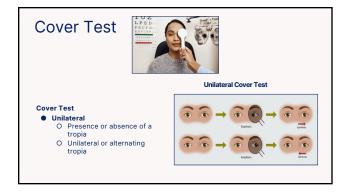


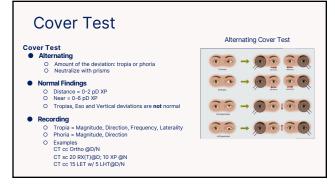


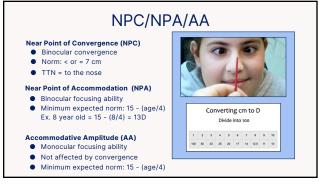




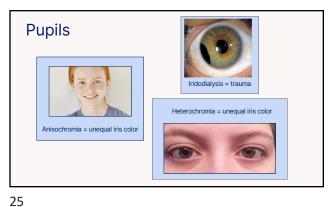


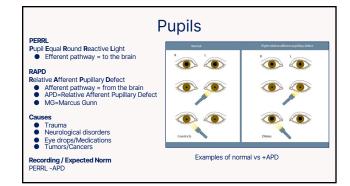


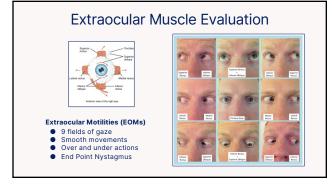


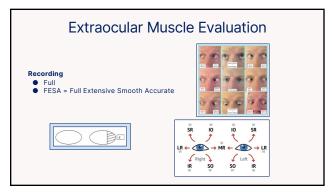


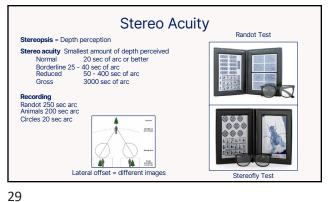
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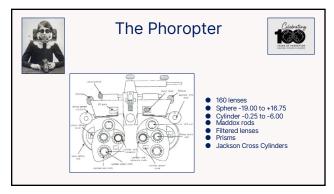


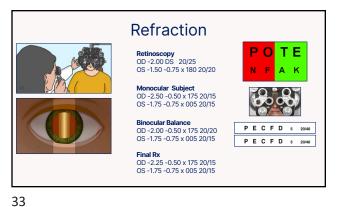


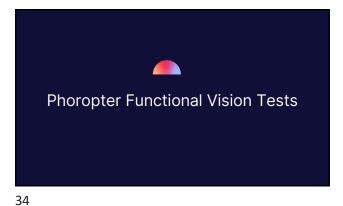


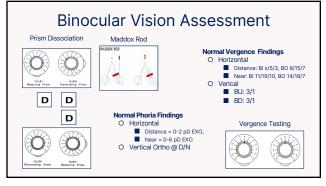


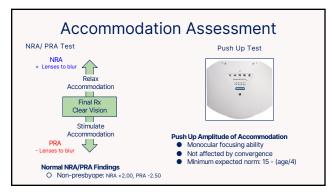


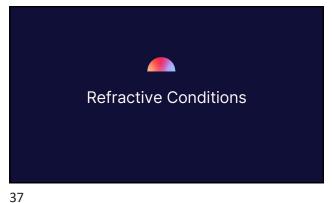


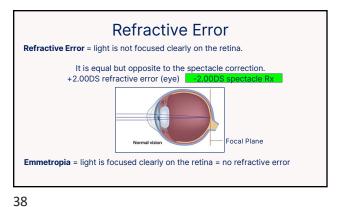


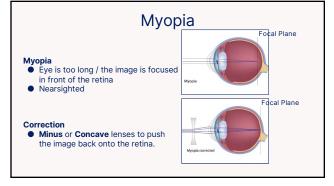


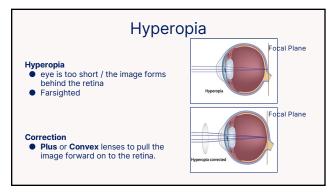


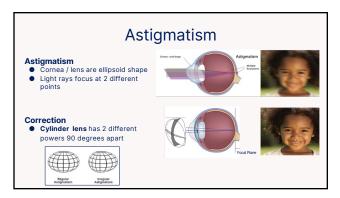


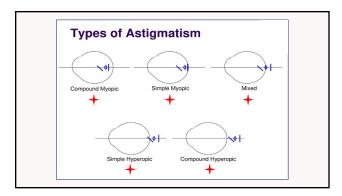




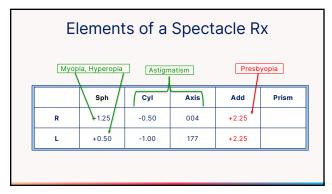








Presbyopia  Loss of near focusing Associated with age			
Age	Acc. Amplitude (AA)	Tentative ADD (40cm)	AA = 15 - (age/4) AA = 15 - (48/4) = 3.00 D Use Half = 3.00/2 = 1.50 D Min. ADD = Demand - AA/2 Min. ADD @ 40cm= 2.50 - 3.00/2 = +1.00D
35	+5.50	0.00	
40	+5.00	Plano to +0.50	
45	+3.50	+0.75 to +1.00	
50	+2.50	+1.25 to +1.50	
55	+1.75	+1.75 to +2.00	
60	+1.00	+2.25 to +2.50	



43 44

## Case 1 Bernie

Bernie 45 yo Softwear marketing and sales manager

CC: Difficulty reading up close Onset ~3 months ago

Location At near (phone, ipad)

Duration/Frequency/Context With onset of near work Modifying Factors Increases working distance

Personal and Family History, Medications Ocular conditions None Medical conditions None

**Optical History** LEE 2 years ago SV glasses & CLs, distance vision is good with both

Enjoys tennis and racquetball, uses CL's for sports only



## Bernie's Confrontation Tests

NPC <7 cm

Gross Observation: normal **DVA** cc 20/15, 20/15 NVA cc 20/30, 20/30

CT cc 2XP/3XP AA 4D/4D NPA 4D NPC TTN

Pupils: PERRL -APD EOMS: full Stereo: Circles 20 sec arc Color vision: Normal VA's 20/20 or better at D/N CT Distance = 0-2 xp Near = 0-6XP AA/NPA for 45 YO (15-45/4 = 3.75D)



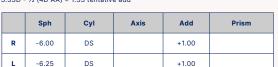
46 45

## Bernie's 1 Treatment

Refraction

OD -6.00 DS 20/15 OS -6.25 DS 20/15

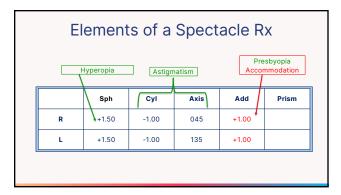
100/30cm = 3.33D accommodative, demand at 30cm 3.33D -  $\frac{1}{2}$  (4D AA) = 1.33 tentative add

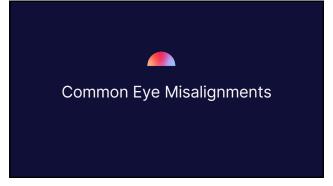


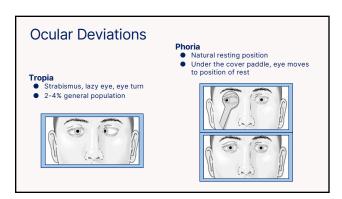
**Common Focusing Conditions** 

47 48



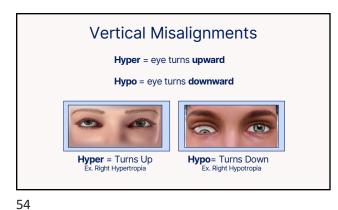


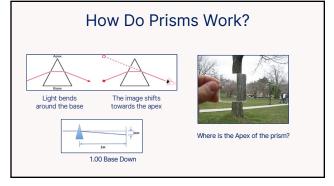


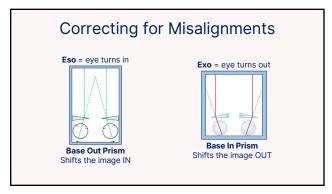


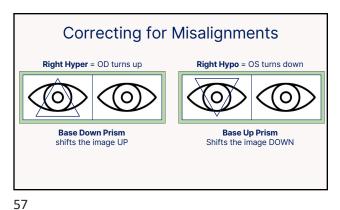
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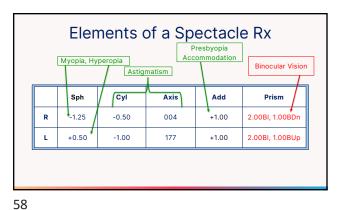


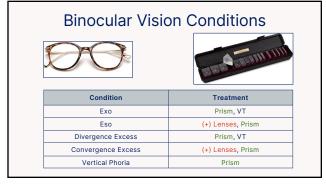




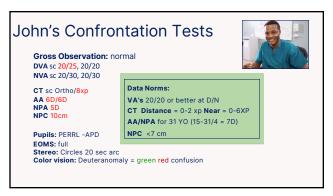


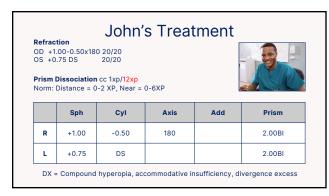




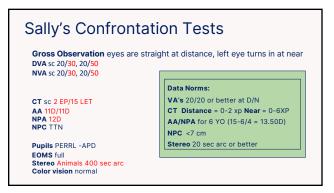




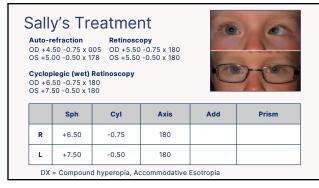


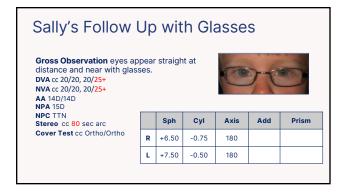


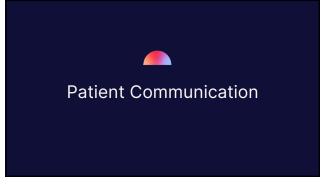


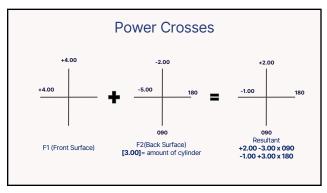


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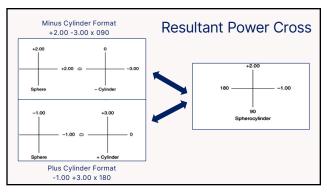


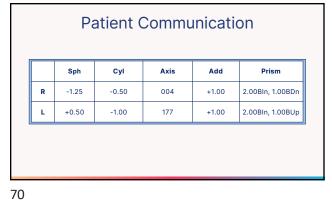




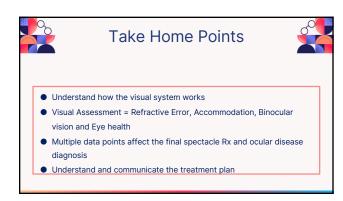


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