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Scleral Lens Basics Alex D. Nixon, OD, MS East/West Eye Conference
October 2, 2015

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Sclei	ral Lens Learnin	g Objectiv	/es
	orneal GP lenses I removal (self and patien cessories	t)	

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_	ct Lenses for Irreg	ular Corneas	
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 Scleral 			
		MACON DE LA CONTRACTION DE LA	
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	What is a Scleral	Lens?	
	Scleral lens —	liquid reservoir	-
	sclera	cornea	
	Solita 1		
	All and a second		
/		3	
	http://www.allaboutvision.com/contacts/scl	eral-lenses.htm	
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	What is a Scleral	Long?	
Lens Type Corneal	Description	Definition of Bearing Area Lens rests entirely on the cornea	
Corneo-scleral		Lens rests partly on the cornea, partly on the sclera	
L	Mini-Scleral Lens is up to 6mm larger than HVID		
Scleral	Large Scleral as is more than 6mm larger than HVID	Lens rests entirely on the sclera	
	2193 Farleigh Rd, Columbus, OH 4: www.sclerallens.org/scleralsociety@gn	3221 nail.com	

How Big is the Lens?	THE OHIO STATE UNIVE	
Why Are Scleral Lenses User • Excellent quality of vision • Able to fit highly irregular corneas*** • More comfortable than GP • More stable than GP	THE OHIO STATE UNIVE	
Exhaust all contact lens optibefore pursuing corneal transported scientifications and the second scientification of the second	olants!	

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Who Can Wear Scleral Lenses?	
Keratoconus or Pellucid Magning Department	
Marginal Degeneration • Radial Keratotomy	
Post Refractive Surgery	
Post Corneal Transplant	
Severe Dry Eye	
Corneal Astigmatism	
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How Can You Help?	
• Incertion/removal during fitting process	
 Insertion/removal during fitting process Understanding common issues during fitting process 	
Teaching proper insertion and removal	
Teaching cleaning and maintenance of sclerals	
Discussing necessary accessories/producs	
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THE OHIO STATE UNIVERSITY Getting Started	
Setting Started	
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THE OHIO STATE UNIVERSITY THE OHIO STATE UNIVE **Getting Started** THE OHIO STATE UNIVERSITY THE OHIO STATE UNIVE Getting Started Select Lens Clean and condition the · Grab necessary products THE OHIO STATE UNIVERSITY THE OHIO STATE UNIVE Scleral Lens Insertion Needs • Non-preserved saline - Fluorescein – Applicator or other stable base - Mirror · Paper towels

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Necessary Products

- · Non-preserved saline
 - Unisol 4 (Alcon)
 - 0.9% Sterile Saline Solution Vials (5mL)
 - Other non-preserved saline solutions





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Necessary Products







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UNnecessary Products

- Inactive Ingredients:
 - Purified Water
- Active Ingredients:
 - Buffers
 - Salts
 - Edetate Disodium (EDTA)
 - Benzalkonium Chloride (BAK)



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Scleral Lens Insertion on Patient	
Set expectations	
• Process	
What will patient feel?	
What will patient see?	
The Ohio State University Scleral Lens Insertion on Patient	
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Scleral Lens Insertion on Patient	
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Scleral Lens Insertion on Self	
Hand	
positioning	
Tripod or	
Applicator	
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Video	
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THE OHIO STATE UNIVERSITY Scleral Lens Removal	
Scieral Lens Removal	
Have patient look down (or up)	
Place plunger near limbus	
Pull straight out	
Difficulty? Push eyelid under lens edge to break suction	
break suction	

THE OHIO STATE UNIVE THE OHIO STATE UNIVERSITY Scleral Lens Removal · Have patient look down (or up) • Place plunger near limbus • Pull straight out • Difficulty? Push eyelid under lens edge to break suction THE OHIO STATE UNIVERSITY THE OHIO STATE UNIVE Scleral Lens Removal W/O Plunger • Hold lens in place • Push eyelid under lens edge and break suction • Push lens out with eyelids THE OHIO STATE UNIVERSITY Video

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	Scleral Lens Care	
	Different providers may recommend different products for the care and cleaning of your lenses. However, most care/cleaning regimens will include the following components: Daily cleaner: After you have removed your lens, place the lens in the palm of your hand.	
	Add several drops of cleaning solution, and gently rub both sides of the lens for 10-15 seconds.	
	Rinse: Rinse your lens with either non-preserved or gently preserved saline to remove all traces of the cleaning solution. Conditioning facilities and the policy is to expend the property of the prope	
	Conditioning/scaking solution: Place the lens in its case with the soaking solution recommended by your eye care provider. Saline/application solution: When you are ready to apply your lens, remove it from the	
	 Saline/application solution: When you are ready to apply your lens, remove it from the conditioning solution. Rinse with saline. Fill the bowl of the lens with non-preserved saline (or other non-perserved solution as recommended by your provider), and apply to the surface of your eye. 	
	From the Scleral Lens Education Society	
0	THE OHIO STATE UNIVERSITY My host Discours (Filling Solutions or Okon?)	
	What Rinsing/Filling Solutions are Okay?	
	Non-Abrasive (Clear colored)	
	All in one or multistep available Peroxide based	
	1 oronido basoa	
	What Rinsing/Filling Solutions are Okay?	
	Non-preserved saline Unisol 4 (Alcon)	
	0.9% Sterile Saline Solution Vials (5mL) salar Solution	
	Other non-preserved saline solutions	

Plungers



Plungers



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Identifying Issues on Your Own



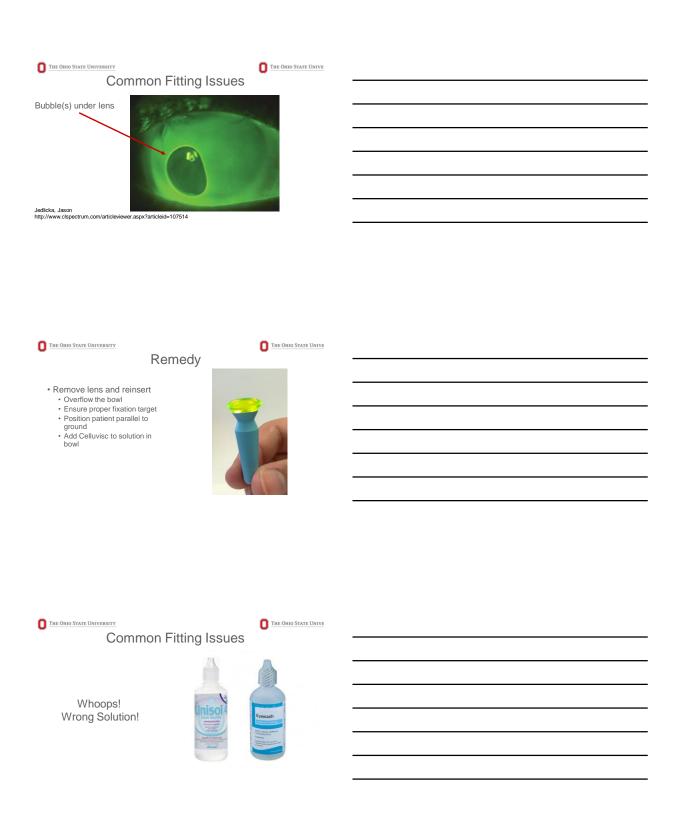
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THE OHIO STATE UNIVERSITY THE OHIO STATE UNIVE Remedy · Remove lens Flush eye with PF artificial tear or Unisol • Discontinue fit for the day • Notify Doctor THE OHIO STATE UNIVERSITY THE OHIO STATE UNIVE Common Fitting Issues Poor Wettability 1. A non-wetting scieral lens. DeNaeyer, Greg http://www.reviewofoptometry.com/continuing_education/tabviewtest/lessonid/108308/ THE OHIO STATE UNIVERSITY Remedy • Remove lens • Condition and thoroughly rub Some recommend using Biotrue or Puremoist off-label • Do not rinse of conditioner • Fill and reapply lens

THE OHIO STATE UNIVERSITY Useful Websites	NVE
http://www.sclerallens.org/http://www.gpli.info/	
• http://www.dmvcorp.com/index.htm	
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Case Examples	