

Optometric Postoperative Cataract Surgery Management

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Financial Disclosures

- Oak Cliff Eye Clinic
- Dallas Eye Consultants

Comanagement

- Joint cooperation between two or more specialists to help improved quality outcomes

Overview

- Qualifications and Considerations
- Expectations
- Observations
- Getting paid
- On the Horizon

Preoperative Qualifications

- **Visual Consideration**
 - BCVA 20/40 or worse
 - Glare testing reduces BCVA by 2 lines beyond 20/40
- **Activity of Daily Living Complaints**
 - A meaningful interference to activities within a patient's life or environment
 - Ambulation
 - Driving – legal driving in Texas
 - Reading
 - Safety

Preoperative Considerations

- **Ocular health**
 - Diabetic Retinopathy
 - Diabetic macular edema
 - Active PDR with poor retinal visualization
 - Glaucomatous consideration
 - Primary angle closure suspect/glaucoma
 - Corneal Health
 - Endothelial dystrophy
 - Pterygia-induced astigmatism

Preoperative Considerations

- **Ocular Health**
 - History of Uveitis
 - Conservative approach with 3 months of non-inflamed eye
 - History of trauma
 - Zonular attachments
 - History of refractive surgery
- **Systemic Health**
 - **Meds:** Flomax and other alpha-adrenergic antagonists

Expectations

- **Know your surgeon**
 - Anesthesia:
 - General anesthesia
 - Topical anesthesia vs. retrobulbar/periorbital block
 - Surgical technique and equipment
 - Standard phacoemulsification
 - MICS
 - LRI vs. spherical equivalent
 - Incision site locations
 - Sutures
 - Pre- and post-operative drop regimen
 - Typical regimen includes preoperative prophylactic antibiotic and NSAID
 - Status-post addition of topical steroid status-post
 - Discontinuation varies per surgeon protocol and patient healing

Day 1

- **Examination**
 - Visual Acuities
 - Slit lamp examination
 - Intraocular pressure
 - Corneal edema
 - Anterior chamber reaction
 - IOL placement: PC, Sulcus, AC
 - Retained lens material
 - Post-operative drops

Day 1 - Complications

- **Seidel Positive**
 - Risk of iris prolapse
 - Shallow anterior chamber
 - Angle closure
 - Choroidal detachment
 - **Treatment:**
 - Bandage contact lens if AC well-formed
 - Refer back to surgeon otherwise

Day 1 - Complications

- **Increased IOP – retained viscoelastic**
 - <30mmHg – topical IOP-lowering drop
 - >30mmHg – consider therapeutic paracentesis or “burp”
 - Surgical needle – 25 gauge, sterile
 - Sterile scleral depressor – autoclave vs. iodine and alcohol
 - Goal: mid-teens
 - Topical antibiotic after IOP stabilized and confirmed Seidel negative
 - **Other considerations:**
 - Poorly controlled glaucoma
 - Poor endothelial health

Day 1 - Complications

- **Corneal Edema**
 - Mechanical
 - High flow phacoemulsification
 - Variable degree of edema
 - Increased IOP
 - Toxic Anterior Segment Syndrome – acute, severe non-infectious inflammatory response
 - Limbus-to-limbus edema
 - Presence of hypopyon – no vitreal involvement
 - Variable levels of pain
 - Increased IOP
 - Treatment: Increase topical steroid Q1H
 - Consider Durezol

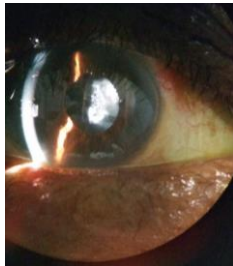
Day 1 - Complications

	TASS	Endophthalmitis
Cause	Non-infectious response	Bacterial, viral, fungal
Onset	12-24 Hours**	2-7 Days
Signs/Symptoms	<ul style="list-style-type: none"> • Blurry VA • Pain: none to moderate • Severe corneal edema • Increased IOP • Irregular/unresponsive pupil • AC reaction: moderate to severe with hypopyon, fibrin, cells • No vitreal involvement 	<ul style="list-style-type: none"> • Decreased VA • Pain: variable • Lid swelling and edema • Hyperemia and • AC reaction: severe with hypopyon • Vitritis • (+) culture
Treatment	<ul style="list-style-type: none"> • Anterior chamber culture(?) • Consult with surgeon • Increase steroid • Close monitoring over first few days 	<ul style="list-style-type: none"> • Anterior chamber culture • Immediate retina/ER referral • IV and intravitreal injections • Vitrectomy
Prognosis	<ul style="list-style-type: none"> • Mild-to-moderate should respond to steroid • Severe may require orals 	50% will achieve 20/40 or better

Day 1 - Complications

- Retained lens material
 - Incomplete removal of the cataract
 - Considerations – Consult with cataract surgeon
 - Small lens fragments can be monitored very closely with topical corticosteroids
 - Larger fragments – refer back
 - Increased risk of complication further out from surgery

Day 1 -Complications



Week 1

- Examination
 - Visual Acuities
 - Refraction
 - 90% of refractions are stable
 - Accommodating lens consideration
 - Discontinue antibiotic

Week 1 - Complications

- Endophthalmitis
 - Typically 2-7 days status-post
 - Severe anterior and posterior chamber reaction
 - Severely reduced acuities
 - Pain
 - Conjunctival injection
 - EMERGENT – retinal specialist or hospital ophthalmology
 - IV antibiotics, intravitreal injections, guarded prognosis

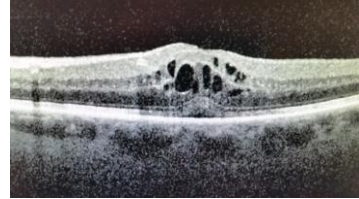
Month 1

- Examination
 - Visual Acuities
 - Reduced from prior visits – possible CME
 - Dilated examination
 - Pre-existing conditions: diabetes, prior RD, AMD
 - Compromised pre-operative views

Month 1 - Complications

- Irvine-Gass Syndrome
 - Cystoid Macular Edema
 - Incidence and Complications
 - OCT and VA
 - At risk: poor vascular health, poor macular health, pre-existing uveitis
 - Continue topical steroid and NSAID
 - Resolution may be slow
 - If non-responsive or worsening, consider subconjunctival, sub-Tenon's or intravitreal injection

Month 1 - Complications



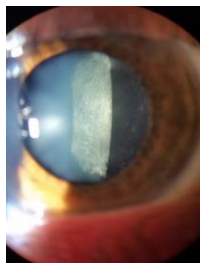
Month 1 - Complications

- Rebound uveitis
 - Approach like traditional uveitis: aggressive steroid dosing with slow taper
- Chronic corneal edema
 - Corneal decompensation
 - Treatment:
 - Non-CAI IOP lowering drops
 - Bandage lens
 - PKP or DSAEK
- Macular hole
 - Pre-existing early stage macular holes
 - Decrease in vitreous volume

Month 3+

- Posterior Capsular Opacification
 - Fibrosis of the posterior lens capsule
 - Glare complaints and/or reduced acuities
 - Nd:YAG laser capsulotomy
- Diabetic retinopathy and CSME
 - 20-40% more likely to experience worsening NPDR and PDR

Month 3+



Billing and Coding

- Concepts to remember:
 - Documentation of pre-surgical agreement to comanage and post-surgical transfer of patient
 - Who pays for comanagement?
 - Parallel billing
 - Reimbursement

Billing and Coding

- **Parallel Coding**
 - Same procedure code: 66982/66984
 - Diagnosis code
- **Modifier 55 – Post-operative care**
- **Modifier RT/LT**
- **Modifier 79 – Unrelated surgery within global**
 - 2nd eye only
- **Date of transfer**
 - Start is the day after transfer/day you assumed care
 - End date is 90 days from surgery
 - 13 weeks – 1 day/12 weeks + 6 days

Billing and Coding

17	17a				
L Good, MD	17b 12345678				
19	Care Assumed on 1/19/12				
21					
21c16					
24a	24b	24d	24e	24f	24g
01/10/2012	22	66984-SSRT	1	xxxxxx	1

- 17 – Surgeon's Name
- 17b – Surgeon's NPI
- 19 – Start Date
- 21 – Diagnosis
- 24a – Date of surgery
- 24d – Procedure Code + 55 + RT/LT + 79 (only if 2nd eye)
- 24g – # of Days for Medicare

On the Horizon

- **Elimination of 10-day and 90-day global period**
 - 2017 – 10-day global
 - 2018 – 90-day global
- **Simplified post-op drop regimen**
 - Intracameral injections
 - Compounded Tri-Moxi