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OPHTHALMOLOGY

Series Editor: David F. Chang, MD

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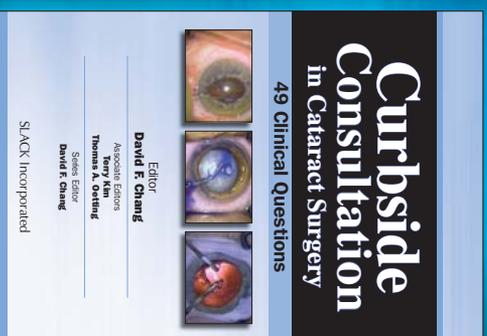
Written with a similar reader-friendly Q&A format and including images, diagrams, and key references, each textbook in the **Curbside Consultation Series** will serve as a concise, go-to reference for the practicing ophthalmologist or resident.

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- Cornea and external disease, *Eduardo C. Alfonso, MD*
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Consult the experts
find the answers

Introducing

Curbside Consultation in Cataract Surgery

49 Clinical Questions



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SLACK Incorporated

The first book of the new ophthalmology series from SLACK Incorporated,
Curbside Consultations

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Curbside Consultation in Cataract Surgery

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**Looking for quick answers to
your cataract surgery questions?**

**Seeking evidence-based advice
for complicated cases?**

***Then Curbside Consultation in
Cataract Surgery is for you.***

Curbside Consultation in Cataract Surgery: 49 Clinical Questions provides quick and direct answers to the thorny questions most commonly posed during a “curbside consultation” between surgical colleagues.

With how large a zonular dialysis can phaco be performed?

Figure 6-1. Baseline cataract with zonular dialysis.



Table 6-1 Stepwise Approach to Evaluation of Zonular Dialysis
1. Careful history (trauma, infection, systemic disease)
2. Intraoperative evaluation (IOP fluctuations)
3. Intraoperative visualization
4. Intraoperative staining—fluorescein sodium, capsule staining, capsular hooks, capsular tension ring (CTR), capsular tension ring (CTR), capsular tension ring (CTR), capsular tension ring (CTR)
5. Anterior chamber—capsular block, capsular tension ring (CTR)
6. Anterior chamber—capsular block, capsular tension ring (CTR)
7. Intraoperative procedure—capsule hydrodissection, hydrodissection, capsular tension ring (CTR), capsular tension ring (CTR)
8. Postoperative evaluation—capsular tension ring (CTR), capsular tension ring (CTR)

preoperative eye. Finally, one should routinely allow the pupil to visualize as much of the peripheral lens as possible.

If a cataract would be expected, proper informed consent is critical in managing the patient's expectations. The patient must be made aware that both the surgery and the postoperative care may be more complicated and prolonged. The patient should also be counseled about the potential need for a vitrectomy, for dislocated lens fragments, and for the greater risk of retinal detachment and cystoid macular edema with vitreous loss. I will often plan the worst-case scenario for patients so they will expect the worst and hopefully be pleasantly surprised.

In cases of zonular dialysis, preoperative planning becomes even more important. In these patients, I will start topical NSAIDs for 1 week preoperatively because of the higher risk for intraoperative complications and postoperative cystoid macular edema. Anticipating a potentially longer operative time, I use propofol or midazolam anesthesia instead of topical anesthesia in these cases. This also makes it easier to convert to a manual ECCE if necessary.

In cases in which a large zonular dialysis is present, I will perform a scleral tunnel rather than a clear corneal incision to facilitate converting to a large-incision ECCE. The

Zonular Dialysis and Phaco 29



Figure 6-2. Photo of the same lens after placement of capsular hooks.

anterior capsule should be stained with either trypan blue or indocyanine green especially if capsular hooks are to be used. Of the various dyes, indocyanine green is best suited in cases with a zonular dialysis due to its dispersion/high aqueous properties. The indocyanine dyes will push back the vitreous less and fixate as quickly as possible. The use of capsular hooks and CTRs will be discussed in a later chapter.

Intraoperative assessment of the degree of zonular dialysis begins when the eye is first manipulated. For example, phacodiolysis might be noted during the capsular procedure for preparation of the scleral tunnel incision. The degree of zonular injury can also be evaluated during the capsulorhexis. Puncturing the capsule with the cyclotome and grasping the flap with the forceps often gives the surgeon an accurate feel as one of either normal or abnormal contraction from the zonules. Any irregular movement of the lens capsule during hydrodissection or lens extraction should be noted. If a zonular dialysis is present, abundant characteristics within peripheral vasculature should be used to prevent anterior prolapse of the vitreous. Capsular hooks and CTRs can be placed before the start of phacodiolysis to stabilize the capsular bag and prevent vitreous prolapse (Figure 6-2). The lens must be completely hydrodissected and hydrodissection of the dissection sites on the remaining zonules when the lens is manipulated. If the lens is not fully mobile within the capsular bag, a representative phacodiolysis should be considered. Avoid a quadrantal divide-and-conquer approach, which sometimes causes one cataract within the capsule. Instead, the use of phaco-chopping methods is preferred in order to minimize stress on the zonules and capsular bag.

If the dialysis is greater than 5 o'clock hours, the lens is browned, the pupil dilates poorly, and the integrity of the remaining zonules is compromised, the phacodiolysis of the lens—even with the use of capsular hooks and CTRs—may not be the best approach. In these instances, it may be safer to remove the lens through a large manual manual incision approach or even with a planned pars plana lensectomy/retinotomy. When selecting a surgical approach to the presence of a zonular dialysis, one must consider other ocular variables such as pupil size, corneal endothelial health, lens density, and the surgeon's familiarity with using capsular hooks and CTRs.

Sample pages of chapter six: see how photos, tables and detailed composition help demonstrate surgical pearls.

Dr. David F. Chang, and associate editors Dr. Terry Kim and Dr. Thomas A. Oetting, have designed this unique reference in which 49 of the top cataract consultants in North America offer expert advice, preferences, and opinions on tough clinical questions commonly associated with cataract surgery. The unique Q&A format provides quick access to current information related to cataract surgery with the simplicity of a conversation between two colleagues. Numerous images, diagrams, and references are included to enhance the text and to illustrate surgical pearls.

Curbside Consultation in Cataract Surgery: 49 Clinical Questions provides information basic enough for residents while also incorporating expert pearls that even high-volume cataract surgeons will appreciate. General ophthalmologists, residents, and cataract specialists alike will benefit from the user-friendly and casual format and the expert advice contained within.

Some of the questions that are answered:

- What is the best way to manage IFIS?
- What should I do differently with a posterior polar cataract?
- When and how do I stain the vitreous with intracameral Kenalog?
- Based about the ESCRS Randomized Study, should I use intracameral antibiotics? Which agent?
- Can I mix different multifocal IOLs, or multifocal with monofocal IOLs?

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