



anterior surface stabilized at approximately 3 months postop.

At the start of the secondary IOL implantation surgery, the anterior hyaloid membrane showed potential for intruding into the pupillary region. Dr. Gulani performed a high-speed, closed-system vitrectomy under direct guidance with the Gulani IVI instrument from Volk Optical. The secondary IOL was then placed.

The patient currently can see 20/25 in the reversed eye.

“She is ecstatic and wants it in her other eye, which was in fact seeing 20/50 with a well-centered epikeratophakia,” he said.

Dr. Gulani does not currently plan to perform the procedure on the fellow eye of this patient. However, he said he does have three additional cases waiting for surgery.

### Preop evaluations needed

According to Dr. Gulani, preoperative measurements are important for locating the epikeratophakia lenticule.

“You may not get the right depth if you just start digging for the epikeratophakia lenticule. It is important to sturdy the cornea and plan your surgery. Special lighting, if needed, and confocal scans or in the near future ultrasound biomicroscopy or optical coherence tomography, and even Orbscan, can be used to plan depths,” he said.

“The second thing is to make sure the patient’s cornea is clear underneath. Otherwise, you’ll end up with the patient’s scarred cornea and you might as well do a penetrating keratoplasty,” he continued.

Dr. Gulani said care should be taken to remove the lenticule in full without tearing or breaking.

## Epikeratophakia lenticule

An epikeratophakia lenticule can always be removed from a patient because the lenticule does not adhere to underlying corneal tissue, according to ANn C. Gulani, MD. Care should be taken to remove the lenticule in full without tearing or breaking. Remaining fragments could distort the edge of the cornea and lead to a poor result if the fragments are close to the visual axis.

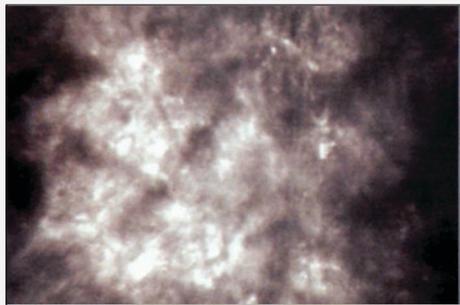


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He said the Nordan-Gulani stitch-down technique is also important for cases where a hinge is located peripherally. He explained the hinge would lift away from the corneal and leave a gap for the epithelium to cover before it can

heal. This would result in longer healing times, irregularity and tendency toward repeated breaking.

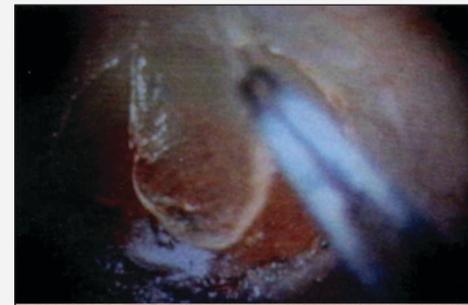
Dr. Gulani acknowledged other corneal surgeons for their previous work, particularly Lee T. Nordan, MD, Eric D. Donnenfeld, MD, Herbert Kaufman, MD, Carmen Barraquer, MD, Marguerite B. McDonald, MD, and Robert Arfaa, MD. ■



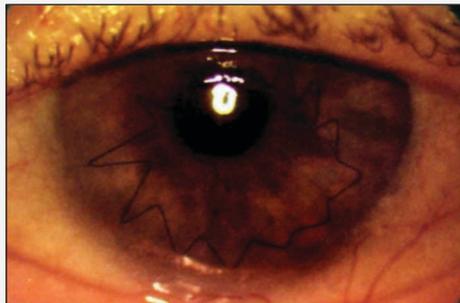
Confocal microscopy image show the interface and depth of the epikeratophakia.



The epikeratophakia lenticule is grasped with forceps and removal from the patient’s cornea is begun.



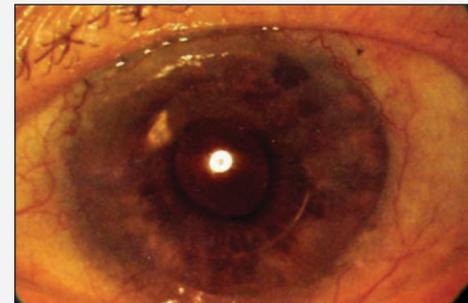
The epikeratophakia lenticule is fully removed from the cornea.



Nordan-Gulani stitch-down technique is used to suture the reversed cornea.



Patient’s clear cornea after stitches have been removed.



Same eye after secondary implantation of IOL.

