DESCRIPTION

The initial technique of making the opening in anterior capsule was first given by Gimbel, Shimizu and Neuhann in 1990.1 They named the technique as ‘continuous curvilinear capsulorhexis’ or ‘CCC’. CCC provided various advantages such as better intraocular lens (IOL) stability, and no ‘V’-shaped tears with tendency of extension and preservation of sulcus for IOL placements in cases of posterior capsular defects. However, making an adequately sized circular capsulorhexis without the help of devices like zeptorhexis,2 femtolaser-assisted cataract surgery, manual marking on cornea and so on, remains a challenge.3

We would like to describe a new ‘symmetrical flap technique’ for capsulorhexis. It is an inexpensive non-machine or device-dependent technique. Steps for this technique (video 1) are as follows: first, we make clear corneal incision with microvitreoretinal surgery blade (MVR) at the site of our main incision. Then the anterior chamber is filled with hydroxypropyl methyl cellulose (HPMC). A 26-gauge needle cystotome attached to partially filled viscoelastic syringe is introduced through MVR entry and a radial nick is given on the anterior capsule from centre to periphery of approximately 2 mm in length. A flap is everted using the cystotome needle and is put flat over the anterior capsule. The everted flap should be laid completely flat on anterior capsule such that margins of everted flaps and cut margin of anterior capsule are mirror image of each other (figure 1). The curvature of everted flap acts as a guide to create the circular capsulorhexis. Capsulorhexis is completed by pulling the flap tangentially along its own curvature and completed by joining to the point of start of rhexis.

Viscoelastic used to form the anterior chamber should have a low viscosity to keep the everted flap flat. As we are using a cystotome from a small incision, HPMC is sufficient to maintain the chamber while doing the capsulorhexis. It was observed that if higher viscosity ophthalmic viscosurgical devices (OVDs) are used such as Healon or Healon GV in this technique, it causes difficulty in flattening the flap. Using HPMC also reduces the surgical cost.4 Forceps capsulorhexis is also a good method to make a circular capsulorhexis, but it also has its own disadvantages. Forceps capsulorhexis uses a larger incision and requires a high-viscosity OVD to maintain the anterior chamber thereby increasing the surgical cost. Also, repeated leak of OVD from larger incision leads to shallowing of anterior chamber and need for multiple times injection of OVD increasing the surgical time.5

Although many surgeons prefer using forceps, this technique is highly advantageous for surgeons preferring needle cystotome. The various advantages of this technique are it does not require any additional equipment, it is highly cost-effective, it gives us a well-centred circular adequate size...
capsulorhexis and it has minimal chances of outrunning of capsulorhexis (figure 2).

**Learning points**

- It is an inexpensive technique to get a circular capsulorhexis.
- This technique has less chances of outrunning of rhexis.

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**REFERENCES**