

## Preloaded injectable intraocular lenses: The way forward

Dear Sir,

Preloaded intraocular lens (IOL) insertion systems are single-use disposable devices, which offer advantage of requiring small wound size, reduced optic diameter, and are associated with less risk of postoperative endophthalmitis.<sup>[1]</sup>

UltraSert™ preloaded delivery system with AcrySof® IQ® aspheric IOL (Alcon) deals in reliable, consistent IOL folding and implantation with sterility delivering an intact, spotless, virtually perfect IOL into the eye avoiding handling of IOL by OR staff and thereby reduces the possibility of lens damage, total case time and improves postsurgical outcome.<sup>[2]</sup>

For evaluation, I had done 23 UltraSert™ implantations and have recorded findings for this article using IOL powers from 20 D to 25.5 D. In 16 of these cases (~70%), the stretch was either 0.0 or 0.1 mm. In only two of cases, the wound stretch was 0.3 mm. Inserting injector till incision guard enlarges the incision to 2.5 mm (two cases), while with a wound-assisted delivery, we were able to contain incision to 2.4 mm. For 20 of the cases, we took a wound-assisted approach, and in 3 of them, we took an incision guard approach as depicted in Fig. 1. Unfolding of leading haptic was seen in only 3 cases (13%) while normal leading haptic was found in the rest 20 cases (87%) as

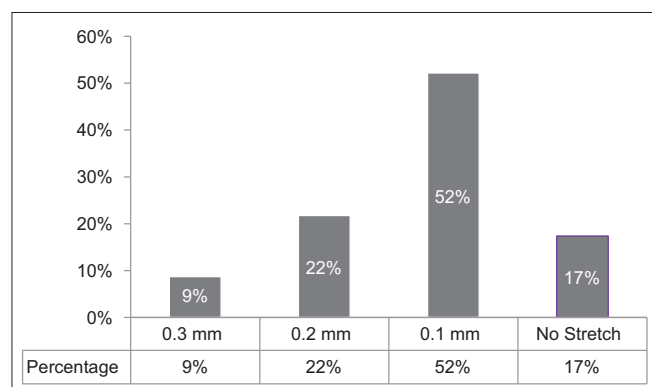


Figure 1: Wound stretch observed after UltraSert™ incision

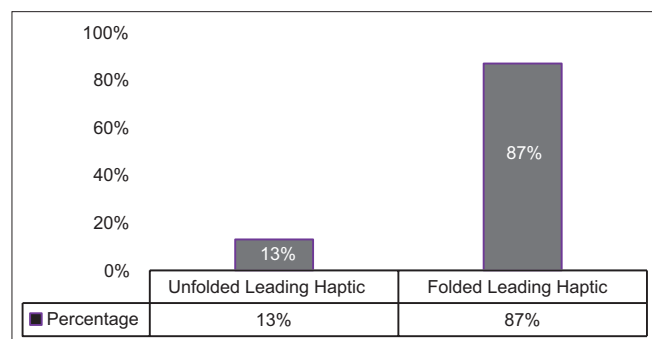


Figure 2: Occurrence of unfolding and normal leading haptic delivery

depicted in Fig. 2. For trailing haptic, the delivery was 100% normal with no incidence of overriding plunger and cartridge tip splitting or cracking. All implantations happened without any complication.

Preloaded IOLs hold promising future, as all IOL implantation surgeries are expected to be implemented through preloaded IOL delivery systems due to its ease of use and reduction of postsurgery complications with a better outcome.<sup>[3]</sup> Overall, total surgical time savings will be attained which may aid in improving efficacy and efficiency of eye surgeries.

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### Conflicts of interest

There are no conflicts of interest.

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