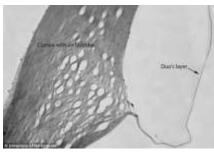
## Triple Deep Anterior Lamellar Keratoplasty

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 Triple DALK is a simultaneous cataract, IOL implantation together with DALK procedure done for cases with dense cataract and corneal lesions suitable for DALK procedure giving the patient all the advantages of DALK over PKP with rapid visual recovery.

- This is one of the clinical applications of the predescematic Dua layer.
- As Dua: 2013 redefined the surgical anatomy of the posterior corneal layers by describing the tough and clear predescematic layers in details, he also described the dynamics of the big bubble.

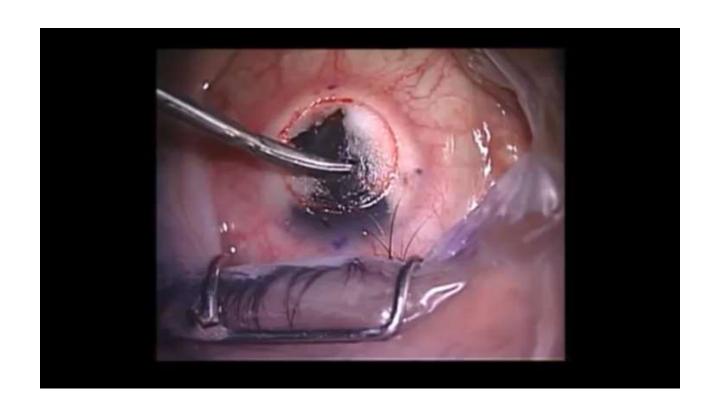


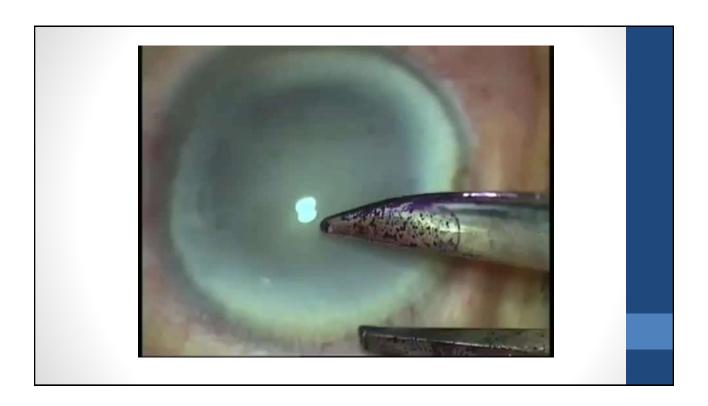
Dua et al. (2013) Human Corneal Anatomy Redefined: A Novel Pre-Descemet's Layer (Dua's Layer). Ophthalmology; 120 (9): 1778-1785

 Since then all corneal surgeons preferred to reach the predescematic layer during DALK by getting type 1 bubble to be away from troubles as rupture or perforations of the fragile descemets membrane.

- We took advantage of using this layer as a tough and clear window to do cataract extraction under good visualization and stable anterior chamber.
- The main drawback of this procedure as in triple PKP is the inaccurate IOL power calculation.









## Advantages and Challenges

- One step operation with early visual recovery.
- More economic.
- All advantages of DALK over PKP.
- Good visualization and stable anterior chamber.

- Inaccurate IOL power calculation.
- Phaco incision is short and more posterior.
- Loss of some of the globe rigidity.
- Suturing of the phaco incision is a must.

Thank You