

16<sup>th</sup> International Conference on

# Clinical and Experimental Ophthalmology

September 18-20, 2017 | Zurich, Switzerland

## Cataract/vitrectomy, phaco free, using reusable systems

**Jorge Garduno-Vieyra**

Instituto Oftalmologico Privado, Mexico

It is a technique using reusable systems for vitrectomy, and for the cataract surgery, we do a manual surgery, because you can use it in all kind of cataracts. The technique starts placing the trocars in the upper side of the eye (m I -m xII - MX) or as normal vitrectomy, leaving the cataract surgeon space to work, we do the sclerotomies with a 22g syringe, and place our trocars (23-25g) 3 mm from limbo and 3.5 the one that we will place the infusion line, depends on the type of the IOL (foldable or rigid). We do a sclera-corneal tunnel an insition of 300 microns with a diamond knife and a crescent (inverted smile shape). With a 15-degree knife insition (depends on the surgeon M IX or MIII the most common). With a 3.2 knife, we open the tunnel, the insition its self-sealed. We place viscoelastic and a gentian violet dilution at 0.05% and realize the capsulotomy, and after that we realize the hydro expresion, the cataract is now in anterior chamber (the nucleus), we can crush or just use hydro expresion we can take the nucleus out, and using a single system (double via cannula) to absorb the rest of the cataract. Place the IOL, and do the vitrectomy, at the end just do some water-air exchange retire our trocars, and inject some antibiotics and asteroid were our sclerotomies were done.

**Conclusion:** Its cheaper, any kind of cataracts (soft or very hard), no need the use of ultra sound that can cause more damage to the endothelium. And only need a vitrector 23 g or 25g, forget about the extracapsular cataract technic.

### Biography

Jorge Garduno Vieyra, he studied the High school at Missouri Military Academy, USA. His medical career started at Universidad Automa de Guadalajara wherein he specialized in ophthalmology at Cuba in the hospital "league against blindness, Hospital Ramon Pando Ferrer", the subspeciality in retina at Mexico City in the "Hospital General de Mexico". He made a observership at Moorfields Eye hospital in London, and another one at the Dallas retina center in the USA. He is member of the Mexican Retina Association just to name one. He has been speaker in National and international Meetings, published articles at the Mexican ophtalmolgy magazine and videos at the eyetube channel. He is the director of the private clinic "Instituto Oftalmologico Privado" that is in Irapuato, Guanajuato Mexico.

superdiggle77@hotmail.com

**Notes:**