

VISION SCIENCE AND EYE

August 10-11, 2017 | London, UK

Bimanual Surgery in The Management of Complicated Diabetic Vitrectomy

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Key points: What is bi-manual surgery?

We use both upper ports as active ones i.e. we utilize the upper left port to insert active instruments (like cutters, forceps and scissors). However, we need a light source to substitute for the endo-illuminator.

Indications: Proliferative diabetic retinopathy

Rhegmatogenous retinal detachment

RD complicated with PVR

Trauma

Dislocated lens/ IOL

ROP

Advantages: Better surgical control

Reduced frequency of instruments change during surgery and less iatrogenic complications

Reduce overall time of surgery

Difficult cases become more amenable to surgery

Minimize need for an assistant

Chandelier Lights: My preference is to use a 2 twin lights to eliminate the need to reposition the fiber and minimizes the shadow seen with single-fiber chandelier endo-illumination because the illumination comes from 2 different directions.

Advantages of Chandelier: The working distance for light irradiation is important, and holding the light probes as far away from the retina as possible increases safety.

The self-retaining nature of chandelier endoilluminators frees up my hand from holding a light probe, allowing true bimanual manipulation during surgery.

Conclusion: Bimanual approach is the safest and the most effective approach in the management of complicated diabetic vitrectomies.

Biography

Senior Vitreo-retinal consultant at the Jordanian Hospital in Amman. Fayyad graduated from Rome University (La Sapienza) in 1976, and completed his residency program in ophthalmology at the same university between 1977 and 1981 with honors. He then traveled to Canada and completed a two year fellowship program in clinical Retina, at the department of ophthalmology at Ottawa University. He served at the Jordanian ministry of health hospitals and the King Hussein Medical Center as well as at the Jordan University Hospital. An examiner at the Jordanian Board of Ophthalmology. Fayyad is involved in training ophthalmologists in Vitreo-retinal surgery.

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