

SC Surgery Update (Course 3)

# No financial interest in this work







SC surgery started 1893



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# **INRODUCTION**

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- The Kahook Dual Blade (KDB) is a goniotomy knife designed to make parallel incisions in the TM and allows for creating a strip of tissue that can be removed from the angle.
- Can be combined with Phaco, and is better <u>after</u> <u>finishing phaco</u>.

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# MICROSCOPE AND PATIENT

- Tilt the <u>microscope</u> 30-45<sup>0</sup> towards the surgeon and <u>tilt</u> the head of the pt 30-45<sup>0</sup> away from the surgeon
- This will line up the surgeons view through the goniolens for enhanced angle visualization
- Higher magnification to observe details of the angle is preferred.



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# **VISCOELASTIC**

- To maintain AC deep, Most surgeons choose a cohesive or dispersive viscoelastics.
- Washing VE material should be done.



### **TECHNIQUE**

- The tip of the KDB can enter the TM at a 10 degree angle (angled up) and then the footplate is leveled gently against the anterior scleral wall once the device is in the canal of schlemm.
- The footplate is advanced while ensuring the two blades are engaging TM on either side to create parallel incisions
- After 2-3 clock hours, the KDB is reversed to come back from the opposite side.

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## **TECHNIQUE**

- Miotics to close pupil.
- The TM strip can be removed with intraocular forceps (<u>rhexis forceps</u>) or irrigated/aspirated out of the eye
- Multiple passes with KDB can be completed if needed to amputate any tethered tissue

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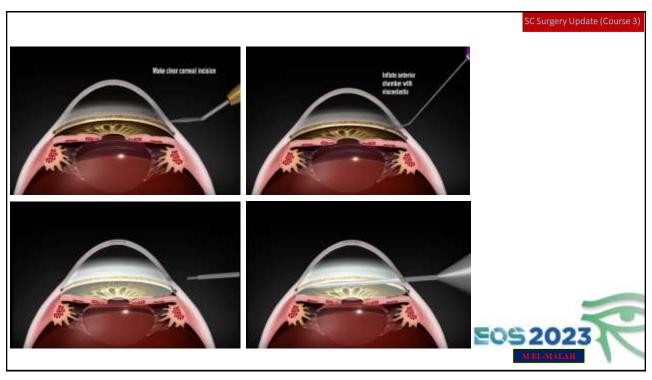
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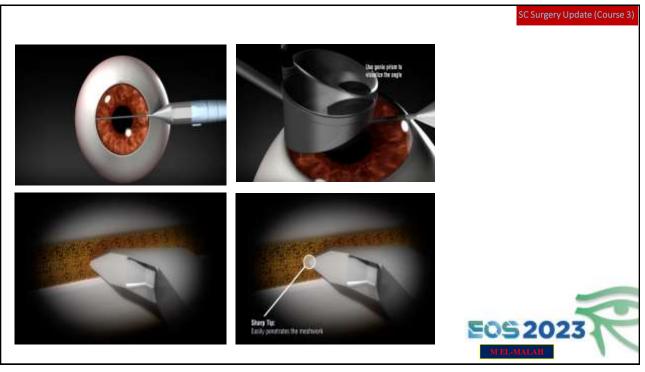
- Inflate the AC to a <u>pressure of 20-25mmHg</u> to help push any refluxed blood into the collector channels
- Hydrate the wounds to ensure they are water tight
- Postop ttt as usual as antibiotics and steroides.

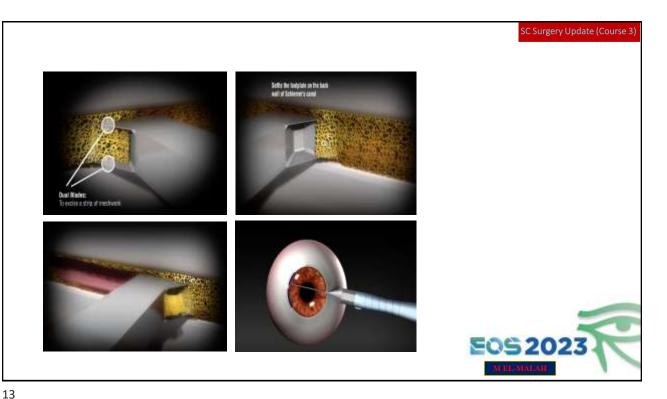


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# Kahook Dual Blade SC Surgery Update (Course 3) Kahook Dual Blade NEW WORLD MEDICAL C.2015 New Wight Medical



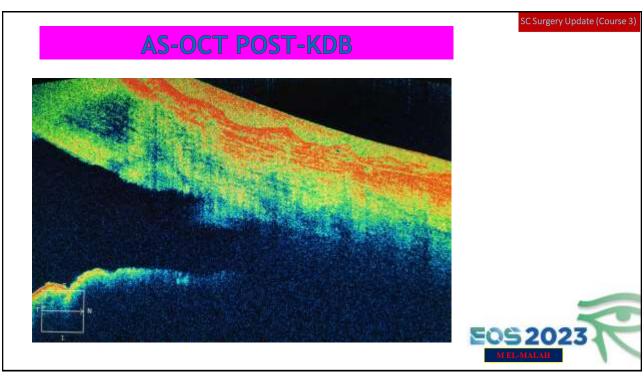


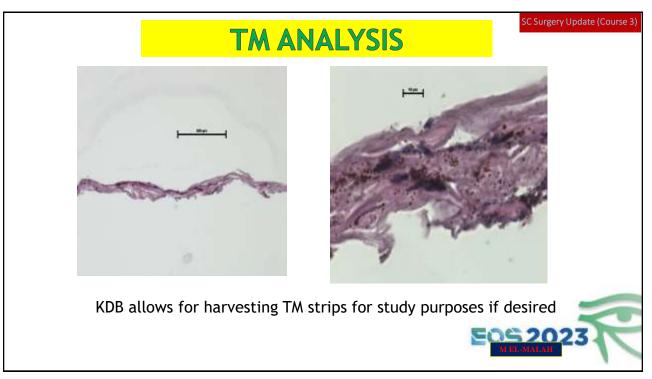


# **DESIGN FEATURES**

- Pointed Tip
  - Pierces TM
- Ramp
  - Elevates & stretches TM
- Dual Blades
  - Excises strip of TM
- Foot Plate/Heel
  - Prevents damage to the anterior wall of the canal







Goniotomy is the indicated (clear cornea) and has a high success rate.

# Goniotomy, Ab-int. KDB

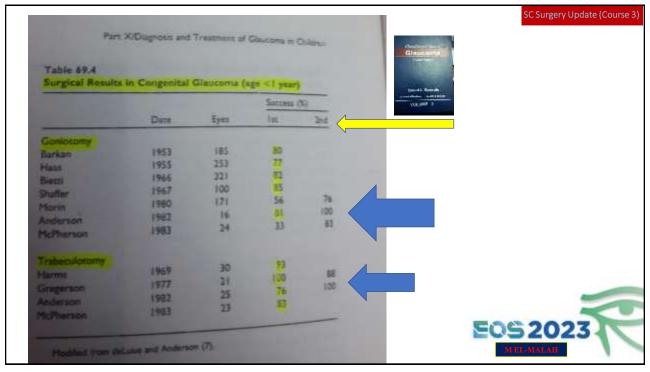








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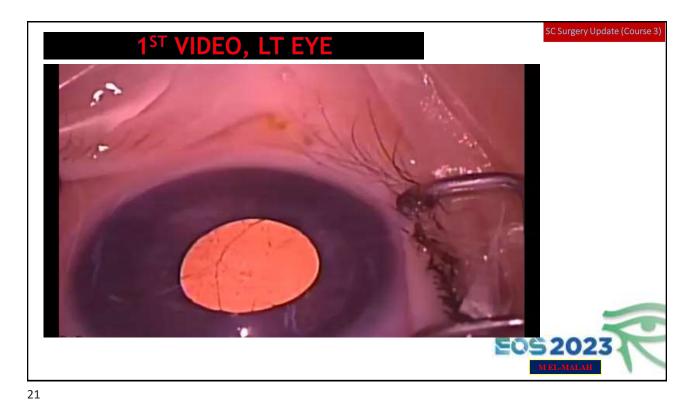




# **VIDEO ONE**

- Female child, 2 ms old
- PCG
- Preop IOP was 26.6 mmHg
- Goniotomy was done using KDB at Jul, 2019
- 1st postop exam dated 4 wks later revealed:
  - Clear cornea
  - Opened angle
  - IOP 14 mmHg
- 2 months later IOP was 14 mmHg as previous follow up.
  - See next ...

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- Female child, 2 ms old PCG
- Preop IOP was 26.0 mmHg
- Goniotomy was done using KDB at Aug, 2019
- - Clear cornea
  - Opened angle
  - IOP <u>12 mmHg</u>
  - See next ...



#### TAKE HOME MESSAGE

- Goniotomy is amazing glaucoma operation.
- Gonioscopy is a must for glaucoma surgery.
- SC is the secrete.
- KDB is a good new technique with short learning curve.
- We should catch new techniques and trying to do it to judge.



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# **THANKS**

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