



Duckworth & Kent

Ophthalmic Titanium Surgical Instruments

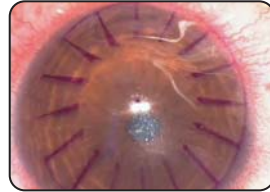
Anwar Keratoplasty Instrument Set

video available at www.duckworth-and-kent.com/videos

Dr Anwar's deep lamellar technique, 'Big Bubble', involves generating a big air bubble between the stroma and Descemet's membrane. Removal of the stroma exposes the smooth Descemet's membrane. The following instruments have been developed with Dr Anwar by Duckworth & Kent for his technique.



16 blade corneal marker, ref: 9-735-1, and hook, ref: 6-112



16 regularly spaced peripheral radial marks on the cornea



Spatula, ref: 6-099-3, allows tenting up of final corneal lamella for a safe split by a sharp metal blade

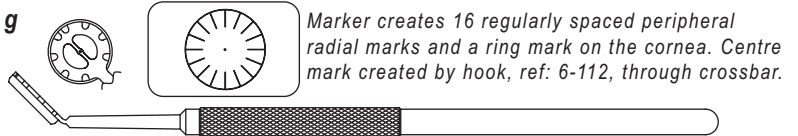


Scissors, ref: 1-218, being used for removal of final corneal lamella

9-735-1

Anwar Keratoplasty 16 Blade Ring

- 16 radial marks
- 10.5mm outer diameter ring
- Peripheral cut-outs spaced around the blades
- Central cross beam with centre hole

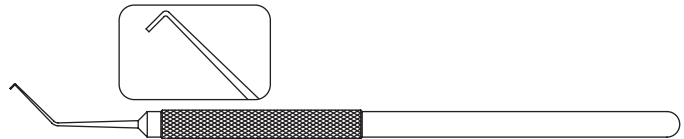


Head of the marker has peripheral cut-outs to assist in accurately placing the regularly spaced peripheral radial marks on the cornea. The hole and crossbar facilitates centralization of the trephine blade.

6-112

Anwar Keratoplasty Hook

- 0.18 diameter tip for 1.0mm length
- Flat face at tip end
- 45° angle shaft, tip to angle length 10.0mm
- Round handle, length 118.0mm



Designed to be used in conjunction with the Anwar Keratoplasty 16 Blade Corneal Marker (9-735-1). Used to mark the anatomical centre on the cornea through the hole in the crossbar of the corneal marker.

6-099-3

Anwar Keratoplasty Spatula

- 0.25 diameter blunt tip tapered from 0.5 diameter
- Angled shaft, tip to angle length 7.0mm
- Round handle, length 116.0mm

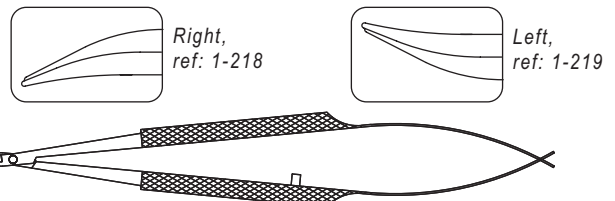


Short and firm spatula with a smooth polished tip that facilitates lamellar dissection / delineation or insertion into the pre-Descemet's plane. The wire tip is tapered from 0.5 to 0.25mm diameter, and allows tenting up of the final corneal lamella for a safe split by a sharp metal blade.

1-218 & 1-219*

Anwar Corneal Scissor - Right & Left*

- Blunt tips, curved blades
- Longer inner blade with smoothly polished end
- Cut length 5.0mm
- Blade length 11.0mm
- Round handle, length 108mm



Corneal scissors specially designed for removal of the final corneal lamella in front of the Descemet's membrane. One blade is longer to avoid an accidental cut into the Descemet's membrane. The longer blade has a smoothly polished tip end to allow minimum dissection of any attachment between the Descemet's membrane and the corneal lamella.

Titanium Instruments

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Big Bubble Deep Lamellar Technique, Dr Mohammad Anwar, FRCS

1. Use the Anwar Keratoplasty 16 Blade Ring Marker (ref: 9-735-1) on the cornea.
2. Partial trephination (300 microns) with pre-set depth.
3. Place a dab of visco elastic on the corneal surface.
4. Insert a bent 27G needle bevel down deep in the corneal groove.
5. A needle is advanced deep in the paracentral direction deep in the stroma at about 80% depth.
6. The needle is already attached with an air filled syringe.
7. Press the plunger with some force.
8. The bubble appears instantly and is recognized by a white circular band.
9. The stroma anterior to the bubble is removed with a blade.
10. A paracentesis is done peripheral to the bubble and the aqueous fluid egressed.
11. The cavity of the bubble is penetrated with the sharp blade (30°).
12. The knife is withdrawn and the bubble collapses.
13. The Anwar Keratoplasty Spatula (ref: 6-099-3) is inserted into the cavity of the bubble through the opening created by the sharp blade.
14. The stroma above the spatula is sliced with the blade. The Descemet's membrane is now exposed.
15. Using the Anwar Keratoplasty Left & Right Scissors (ref: 1-218 & 1-219) the residual stroma is removed in two halves.
16. The Descemet's membrane is stripped off the donor button.
17. The donor is sutured into place with 10/0 nylon sutures and the tension adjusted using a keratoscope.