

# INNOVATIONS FOR RETINA SURGERY

 **MedOne**<sup>®</sup>

***Exactly what you're looking for***

*Exactamente lo que estás buscando*

*Exatamente o que você está procurando*

*تناسب تماما ما تتطلع اليه*

*恰如其寻*

*まさにお探しのものを*

*Alles, was Sie brauchen*

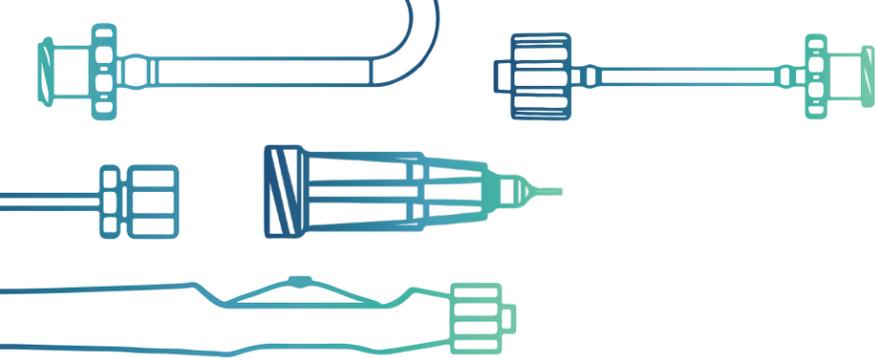
*Esattamente quello che stavi cercando*

*Здесь то, что вы искали*

*Exactement ce dont vous avez besoin*

*Exacte quod circumspectas*





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At MedOne, we focus on making products that help you help your patients. Attention to detail and a quality focused approach result in products you can rely on in difficult situations. Our innovative products help solve problems and consistently achieve great surgical results. We share your passion for patient care.

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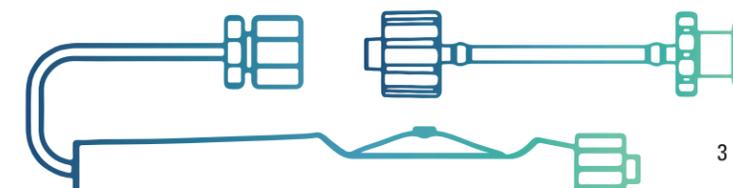
**QUICK GUIDE:** 20 gauge | 23 gauge | 25 gauge | 27gauge



*Exactly what you're looking for*

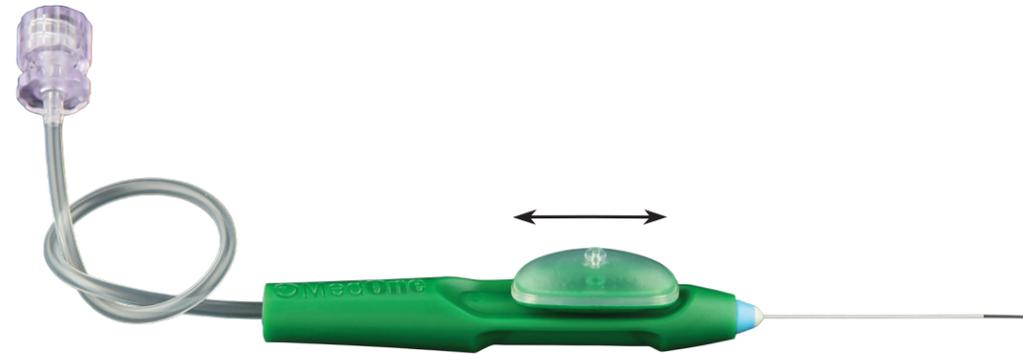


Product images on the box label and inner packaging make it quick and easy to identify the product inside.



## Extendable FlexTip™ Cannulas

Extendable FlexTip™ Cannulas have soft, flexible tips that can be fully retracted for easy passage through valved entry cannulas. The tip can be extended up to 7mm in length. The sliding silicone reservoir allows reflux even when fully extended. The removable plug allows use with active or passive aspiration. This product is ideal for subretinal drainage, especially in cases with fluid in the periphery near a tear or break.



- 3299 **Extendable FlexTip™ Cannula 23g**
- 3298 **Extendable FlexTip™ Cannula 25g**

## FlexTip™ Brush Cannulas

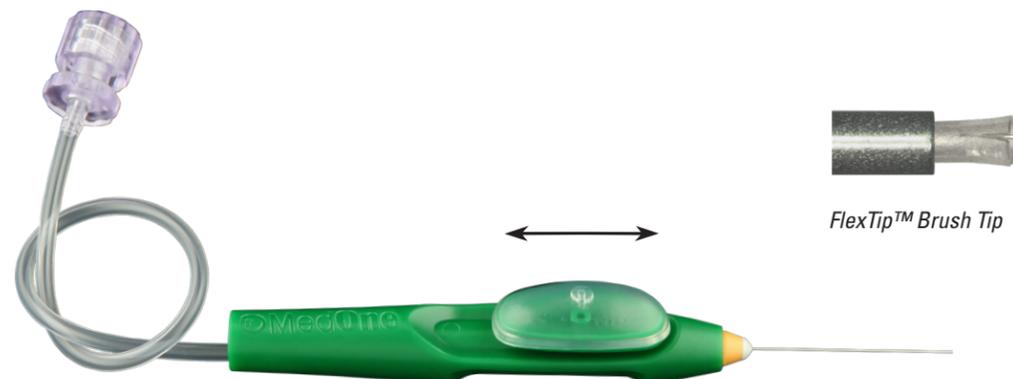
The FlexTip™ Brush Cannulas have a soft, silicone tip that allows gentle brushing and manipulation of the retina. Excellent for removal of blood from the retina surface.



- 3215 **FlexTip™ Brush 20g**  
20g x 32mm cannula with 1mm brush tip
- 3232 **FlexTip™ Brush 23g**  
23g x 32mm cannula with 0.75mm brush tip
- 3222 **FlexTip™ Brush 25g**  
25g x 32mm cannula with 0.75mm brush tip
- 3264 **FlexTip™ Brush 27g**  
27g x 32mm cannula with 0.75mm brush tip

## Extendable FlexTip™ Brush

The Extendable FlexTip™ Brush has a soft, silicone tip that can be fully retracted for easy passage through valved entry cannulas, then extended up to 1.5mm in length. The removable plug allows use with active or passive aspiration.

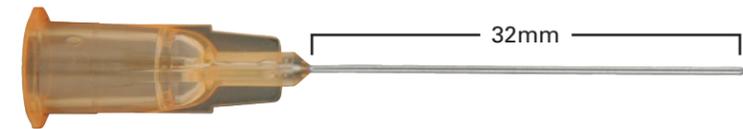


- 3508 **Extendable FlexTip™ Brush 25g**

## FlexTip™ Cannulas

FlexTip™ Cannulas have soft, high-flow silicone tips, allowing gentle access to the retina for drainage from the surface or subretinal space. XL cannulas offer increased length for better access to the retina in long eyes. The luer lock hub enables easy secure connection to a backflush handle or other aspiration device.

Standard Length



XL Length



The short 0.75mm silicone tip allows easy passage through valved entry cannulas and is excellent for endo drainage at the retina surface. The longer 3mm and 5mm silicone tips are best for drainage of subretinal fluid accessed through an existing tear or break.

- 3238 **FlexTip™ Cannula 20g (1mm)**  
20g x 32mm cannula with 1mm tip
- 3211 **FlexTip™ Cannula 20g (6mm)**  
20g x 32mm cannula with 6mm tip
- 3208 **FlexTip™ Cannula XL 20g (3mm)**  
20g x 36mm cannula with 3mm tip
- 3252 **FlexTip™ Cannula 23g (0.75mm)**  
23g x 32mm cannula with 0.75mm tip
- 3230 **FlexTip™ Cannula 23g (1mm)**  
23g x 32mm cannula with 1mm tip
- 3231 **FlexTip™ Cannula 23g (3mm)**  
23g x 32mm cannula with 3mm tip
- 3242 **FlexTip™ Cannula 23g (5mm)**  
23g x 32mm cannula with 5mm tip
- 3209 **FlexTip™ Cannula XL 23g (3mm)**  
23g x 36mm cannula with 3mm tip
- 3251 **FlexTip™ Cannula 25g (0.75mm)**  
25g x 32mm cannula with 0.75mm tip
- 3221 **FlexTip™ Cannula 25g (1mm)**  
25g x 32mm cannula with 1mm tip
- 3220 **FlexTip™ Cannula 25g (3mm)**  
25g x 32mm cannula with 3mm tip
- 3224 **FlexTip™ Cannula 25g (5mm)**  
25g x 32mm cannula with 5mm tip
- 3210 **FlexTip™ Cannula XL 25g (3mm)**  
25g x 36mm cannula with 3mm tip
- 3260 **FlexTip™ Cannula 27g (0.75mm)**  
27g x 32mm cannula with 0.75mm tip
- 3258 **FlexTip™ Cannula 27g (1mm)**  
27g x 32mm cannula with 1mm tip

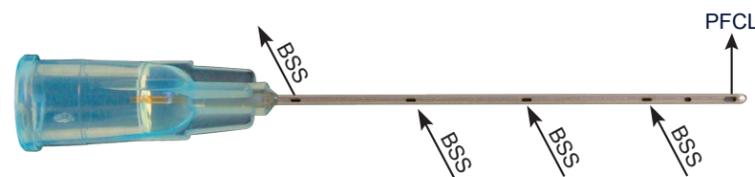
## Dual Bore Cannulas

MedOne Dual Bore Cannulas are designed for injection of a liquid such as perfluorocarbon (PFCL) or staining dye, while allowing simultaneous egress of BSS to relieve pressure build up. This enables easy use of surgical liquids while controlling intraocular pressure. During injection, the port nearest to the hub remains outside the eye, allowing the passive drainage of BSS to relieve pressure. The Dual Bore Cannulas utilize a filled hub designed to decrease air bubbles during PFCL injection so the case can be completed without interruption.

### DualBore SideFlo® Cannulas

The MedOne DualBore SideFlo® Cannulas are optimized for injection of surgical liquids in small gauge vitrectomy surgery. They are designed to increase safety by using a side port for fluid injection, reducing the possibility of retinal injury caused by a fluid jet stream. Multiple egress vents double the outflow over the original design for faster pressure relief during injection. The all metal exterior enables easy passage through valved entry cannulas.

Patent #9937300



**3423 DualBore SideFlo® Cannula 23g**

**3425 DualBore SideFlo® Cannula 25g**

**3427 DualBore SideFlo® Cannula 27g**



### Original Dual Bore Cannulas

MedOne coaxial Dual Bore Cannulas have a longer central cannula for injection of surgical liquids with venting through a secondary lumen and a single port near the hub.



**3237 Dual Bore Cannula 20g**

**3239 Dual Bore Cannula 23g**

**3240 Dual Bore Cannula 25g**

## Blunt Tip Cannulas

Blunt, thin-walled cannulas are intended for general injection or aspiration. XL cannulas offer increased overall length for easier access in patients with high myopia or longer eyes. The thin wall allows a high flow rate. The luer lock hub enables an easy, secure connection to a backflush handle or syringe.

Standard Length



XL Length



**3214 Cannula 20g**  
20g x 32mm

**3205 Cannula XL 20g**  
20g x 36mm

**3234 Cannula 23g**  
23g x 32mm

**3206 Cannula XL 23g**  
23g x 36mm

**3225 Cannula 25g**  
25g x 32mm

**3207 Cannula XL 25g**  
25g x 36mm

**3257 Cannula 27g**  
27g x 32mm

## Infusion Cannulas

The thin-walled 20g Infusion Cannulas achieve maximum flow rate during infusion of fluid or gas. The smooth, beveled tip (available in 4mm or 6mm lengths) allows easy insertion through sclerotomy. The green suture flange offers enhanced visibility. The luer lock hub enables an easy, secure connection to the infusion line.

**3202 Infusion Cannula 20g (4mm)**  
25cm (10in) silicone tube with 4mm tip

**3203 Infusion Cannula 20g (6mm)**  
25cm (10in) silicone tube with 6mm tip



## VFI Cannulas

MedOne VFI Cannulas utilize an extremely thin-walled tube, allowing injection of viscous fluids such as silicone oil through an entry cannula. The luer lock hub enables an easy, secure connection to a syringe, extension tube, or injection system.

VFI Cannula



PolyTip® VFI Cannula



**3235 VFI Cannula 23g**  
23g x 2mm

**3226 VFI Cannula 25g**  
25g x 2mm

**3273 VFI Cannula 27g**  
27g x 2mm

**3241 PolyTip® VFI Cannula 23g**  
23g x 10mm cannula length provides improved access across the eye and visualization of the cannula tip during use.

## Oil Removal Cannula [Kapran]

MedOne's innovative Oil Removal Cannula enables removal of oil through a sutureless incision. Simply place the trocar cannula using standard technique. Then push the included silicone tube onto the specially-shaped port cannula and aspirate the oil using a standard syringe or pump system. Supplied cap can be used to help maintain IOP after removal of oil.

*Developed in cooperation with Ziya Kapran, MD*



Watch surgical videos on our *YouTube* Channel or go to [www.MedOne.com](http://www.MedOne.com).



Uniquely shaped 23g port cannula



Luer lock tubing/connector attached



Cap to help maintain IOP after oil removal



**3300 Oil Removal Cannula 23g [Kapran]**  
System includes handle, trocar cannula, adaptor tubing, and cap.

## VFI Infusion Cannulas

VFI Infusion Cannulas can be inserted into an entry cannula and will remain attached via the silicone fitting at the tip. The self-retaining feature allows bimanual surgery during oil fill in small gauge cases. The VFI Cannula can be used to infuse both BSS and silicone oil during a case. Ideal for PFO-to-silicone oil exchange cases. Not compatible with Alcon valved trocar cannulas.



**3246 VFI Infusion Cannula 23g**

**3245 VFI Infusion Cannula 25g**

**3301 VFI Infusion Cannula 27g**



## Viscous Fluid Infusion Cannulas

Our Viscous Fluid Infusion Cannulas feature a thin-walled, high-flow cannula tip and high-pressure tubing that allows quick injection of silicone oil. The VFI Cannula can be used to infuse both BSS and silicone oil during a case. The green flange offers enhanced visibility during suturing. The luer lock hub enables an easy, secure connection to the infusion line.

**3200 Viscous Fluid Cannula 20g (4mm)**  
16cm (6in) high pressure tube with 4mm tip

**3201 Viscous Fluid Cannula 20g (6mm)**  
16cm (6in) high pressure tube with 6mm tip



4mm



6mm



## MicroPicks

MedOne MicroPicks are intended for lifting the edge of ILM or other retinal membranes for subsequent peeling with forceps. The pick is angled 45°, 0.5mm from the tip. It can be used for aspiration or injection. The luer lock hub enables an easy, secure connection to a backflush handle or syringe.

**3229 MicroPick 23g**  
23g x 32mm

**3204 MicroPick 25g**  
25g x 32mm



MicroPick Tip



## MVR Knives

MedOne MVR Knives are sharp and consistent, two of the most important attributes of a surgical knife. The diamond architecture of the blade tip ensures a clean, precise incision every time. The 20g MVR (3266) creates a sclerotomy for 20g instruments. The 23g MVR (3268 or 3269) can be used to create sclerotomies for use with 23g cannula systems, but will not fit through an entry cannula.

**3266 AdvantEdge® MVR Knife 20g**

**3268 AdvantEdge® MVR Knife 23g**

**3269 AdvantEdge® MVR Knife 23g (Angled)**



### Narrow 23g MVR

Designed specifically to fit through a 23g entry cannula, this MVR can be used as a knife or a pick through an existing 23g port.

**3272 AdvantEdge® MVR Knife 23g (Narrow)**



## Backflush Handle

Our Backflush Handle is designed to maximize performance and ergonomic comfort. The short handle provides excellent maneuverability in the surgical field, especially around wide-field viewing systems. The grip area is designed for precise control in delicate procedures. The luer lock fitting enables a quick, easy connection with any luer-compatible cannula, including all MedOne cannulas. The removable plug allows use with active or passive aspiration.

**3228 Backflush Handle**



## Backflush Instruments

Backflush Instruments combine our ergonomic handle with our most popular cannulas in one convenient instrument. The instruments are available with a blunt tip cannula or a 0.75mm silicone tip, allowing easy passage through valved entry cannulas. The removable plug allows use with active or passive aspiration.

**3286 Backflush Cannula 23g**

**3290 Backflush FlexTip™ 23g**

**3295 Backflush Cannula 25g**

**3296 Backflush FlexTip™ 25g**

**3276 Backflush Cannula 27g**

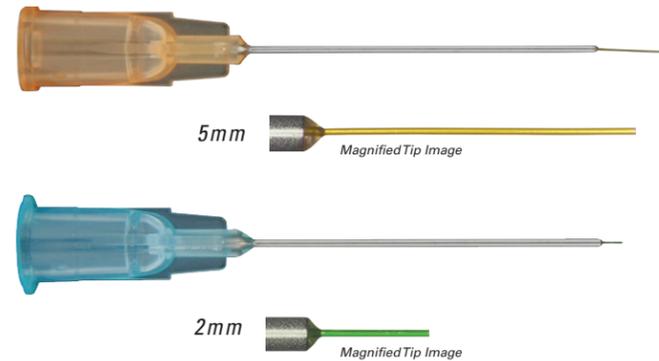
**3278 Backflush FlexTip™ 27g**



# Subretinal Cannulas

## PolyTip® Cannulas

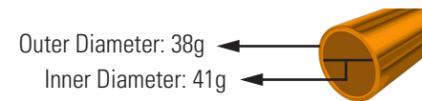
The 38g PolyTip® Cannulas are rigid enough to penetrate the retina, eliminating the need to create a separate retinotomy. These products are ideal for subretinal injection. They can also be used for low volume fluid drainage, such as draining subretinal PFCL.



The 2mm green tip allows easy passage through valved entry cannulas and better visibility. It's shorter tip is rigid enough to penetrate the retina, while the 5mm is more flexible.

- 3233 PolyTip® Cannula 23g/38g**  
23g x 28mm cannula with 38g (0.12mm) x 5mm tip
- 3254 PolyTip® Cannula 23g/38g**  
23g x 28mm cannula with 38g (0.12mm) x 2mm green tip
- 3219 PolyTip® Cannula 25g/38g**  
25g x 28mm cannula with 38g (0.12mm) x 5mm tip
- 3255 PolyTip® Cannula 25g/38g**  
25g x 28mm cannula with 38g (0.12mm) x 2mm green tip
- 3259 PolyTip® Cannula 27g/38g**  
27g x 32mm cannula with 38g (0.12mm) x 5mm tip
- 3256 PolyTip® Cannula 27g/38g**  
27g x 32mm cannula with 38g (0.12mm) x 2mm green tip

MedOne Subretinal PolyTip® Cannulas are equivalent to "41g" cannulas in other brands:



## MicroTip Beveled Cannula

The Micro Cannula has a 40g (0.10mm diameter) beveled tip. Metal cannula with beveled tip allows easy penetration through the retina for subretinal injection. Slight curve at tip allows great visibility of tip and easier approach angle for entry into subretinal space. Compatible with 25g entry cannulas.



Hub color coding does not apply to this product.

- 3261 MicroTip Beveled Cannula 25g/40g**  
25g x 28mm cannula with 40g (0.10mm) x 5mm tip



Magnified Image of Micro Tip

## Nano Cannula

The Nano Cannula features an all-metal, 48g beveled tip for use in subretinal procedures, providing sufficient stiffness and visibility to facilitate entry in the subretinal space or delicate structures. Compatible with 25g entry cannulas.

Developed in cooperation with Kazuaki Kadonosono, MD, Yokohama, Japan



Endovascular Cannulation With a Microneedle for CRVO



An Experimental Study of Retinal Endovascular Surgery with a Microfabricated Needle

- 3263 Nano Cannula 25g/48g**  
25g x 28mm cannula tapers to 48g tip (0.06mm)



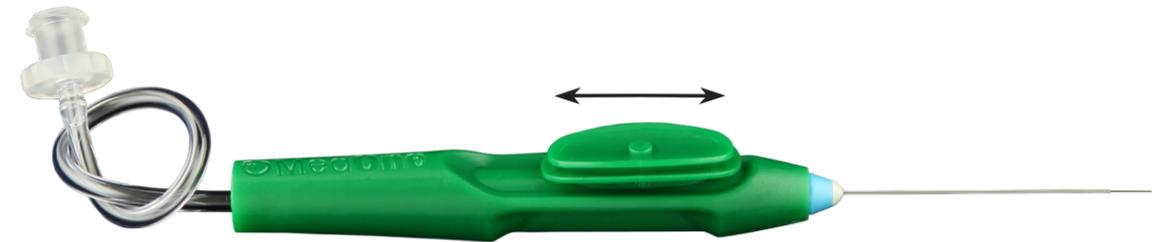
Magnified Image of Nano Tip



# Extendable PolyTip® Cannulas

Extendable PolyTip® Cannulas feature a 38g tip that can be fully retracted for easy passage through a valved entry cannula, then extended up to 5mm in length. Shorter tubing reduces loss of injection fluid. Priming volume is approximately 0.1mL.

- 3248 Extendable PolyTip® Cannula 23g/38g**  
23g x 28mm cannula with 38g (0.12mm) tip
- 3247 Extendable PolyTip® Cannula 25g/38g**  
25g x 28mm cannula with 38g (0.12mm) tip



## Subretinal Injections

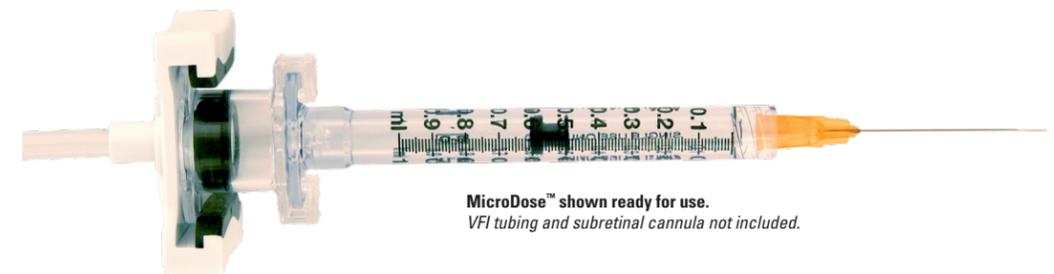
### MicroDose™ Injection Kit

The MedOne MicroDose™ Injection Kit adapts the viscous fluid injection (VFI) set from your vitrectomy machine to use a 1mL syringe. Ideal for low volume subretinal injections. Simply attach the kit to the VFI tubing set from the vitrectomy console and place a subretinal injection cannula on the tip. The kit allows full surgeon control of subretinal injection via console foot pedal with minimal fluid loss. Kit includes adapter and syringe. MicroDose™ Kit can be connected to the VFI tubing set from Constellation®, Stellaris® and EVA® systems.

Constellation® is a trademark of Alcon Laboratories, Stellaris® is a trademark of Valeant and EVA® is a trademark of Dutch Ophthalmic.

Developed in cooperation with David M. Brown, MD, Houston, TX USA

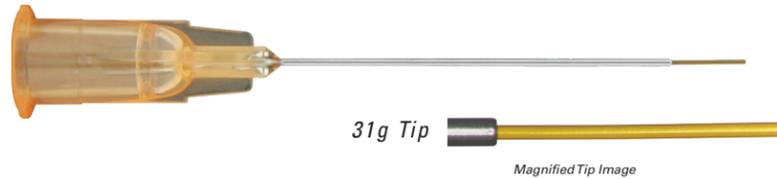
- 3275 MicroDose™ Injection Kit**



MicroDose™ shown ready for use. VFI tubing and subretinal cannula not included.

## Tapered PolyTip® Cannulas

PolyTip® Cannulas utilize an extremely thin-walled, semi-flexible tip, allowing maximum flow rate in a small diameter cannula. The luer lock hub enables a quick, secure connection to a syringe, extension tube, or infusion line.



**3218 PolyTip® Cannula 25g/31g**  
25g x 28mm cannula with 31g x 5mm tip  
Can be used for endo-drainage of macular holes.

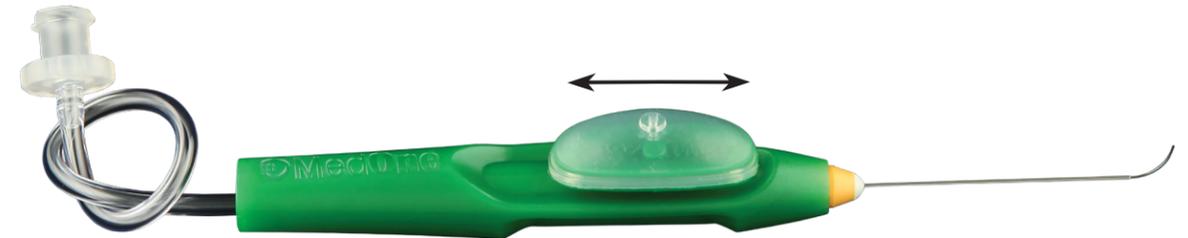
**3262 PolyTip® Cannula 25g/33g**  
25g x 28mm cannula with 33g x 2mm tip  
Can be used for penetration through the retina, allowing drainage of subretinal fluid through a minimally traumatic drainage retinotomy. Thin wall tip has flow rate similar to a 25g soft tip but with a smaller retinotomy. Green tip allows excellent visibility.

*Developed in cooperation with Philip J. Ferrone, MD, Long Island Vitreoretinal Consultants*

## Visco Dissection Cannula

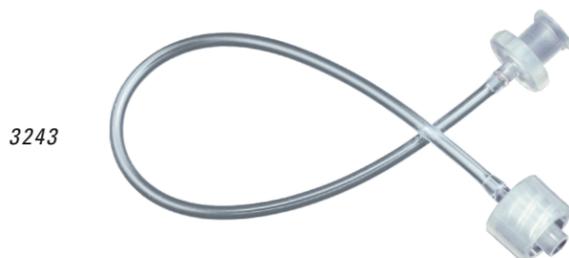
The 25g Visco Dissection Cannula has an extendable curved tip, allowing injection of viscoelastic material for gentle dissection of epiretinal membranes. When extended, the curved tip allows injection parallel to the retina surface and when retracted, easy passage through entry cannulas. Female luer connector allows easy connection to syringe.

**3274 Visco Dissection Cannula 25g**



## Extension Tubing

These extension tubes can be used with any of our cannulas. Ideal for use with our Subretinal Cannulas enabling precise positioning of the cannula tip while injection is performed with the opposite hand or by an assistant.



**3223 Extension Tube [Hammer]**  
5cm (2in) Silicone tubing with male and female luer lock connections. For precise, controlled microinjections. The short, small-bore tubing has a 0.1mL priming volume for minimal fluid loss and precise delivery.

**3243 High Pressure Extension Tube**  
15cm (6in) PVC tube with male and female luer lock connections. Can be used with the VFI cannulas for injection of high viscosity liquids such as silicone oil. Small-bore tubing with 0.3mL priming volume.

## Olive Tip SC Cannula [El Rayes]

The curved OliveTip SC Cannula (El Rayes) is designed for injection of fluids, primarily in the anterior suprachoroidal space. This is especially useful for injecting a filler material, such as viscoelastic, to create a buckle effect in the treatment of peripheral retinal detachments. The cannula can also be used to inject therapeutic agents or to aspirate blood or other fluids in the suprachoroidal space.

**3311 Olive Tip SC Cannula 23g [El Rayes]**



Watch surgical videos on our YouTube Channel or go to [www.MedOne.com](http://www.MedOne.com).

*Developed in cooperation with Ehab N. El Rayes, MD, PhD*



*Hub color coding does not apply to this product.*



*Magnified Image of Olive Tip*



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