

Ophthalmology Times®

All the Clinical News In Sight

OCTOBER 15, 2003 / Ophthalmology Times

Surgeon-friendly

Injector system designed for use with pupil expansion device

New Product
Focus

By Cheryl Guttman

Sydney, Australia—The introduction of the Perfect Pupil Injector (Milvella Pty. Limited [Australia]) has made implantation with the Perfect Pupil expansion device (Milvella Pty. Limited [Australia]) a very surgeon-friendly procedure, according to E. John Milverton, MD.

The Perfect Pupil Injector was designed for use with Perfect Pupil Injectable, a new model of Perfect Pupil. Relative to the parent model, Perfect Pupil Injectable is more flexible, allowing it to be loaded into the injector, and it has a 1-mm longer arm that facilitates use of the expansion device in all incision types—clear corneal, limbal, or scleral tunnel.

Dr. Milverton reported that he has used the Perfect Pupil Injector in about 1 dozen cases so far. He has found it reduces operating time and said it should be simple

Take-Home Message

A new injector system facilitates placement of the Perfect Pupil expansion device. It is to be loaded only with the new Perfect Pupil Injectable, which is suitable for use in clear corneal, limbal, or scleral tunnel incisions as small as 2.75 mm. The technique for using the injector system is similar to that of an IOL injector.



Figure 1 Perfect Pupil loading is possible by engaging the proximal hole with the injector hook from under the arm (left). The Perfect Pupil can now be loaded into the injector. (Photo courtesy of E. John Milverton, MD)

to use for any cataract surgeon familiar with shooter systems for foldable IOLs. The injector can be loaded easily by the operating technician, passes readily through a 2.75-mm cataract wound without causing any incisional stress or stretch, and reduces implantation time to about 10 seconds.

In the eye, Perfect Pupil Injectable provides the same performance as the parent model in enlarging the pupil to a circle approximately 8 mm in diameter, protecting the pupil margin during surgery, and engaging the pupil safely so that it returns to its normal shape, size, and function postoperatively.

In addition, the stabilizing arm remains in the correct position throughout the surgery and allows for easy removal of the expansion device at completion of the procedure.

“Perfect Pupil has many advantages for small pupil expansion relative to other alternatives. However, just as with any technique performed infrequently, surgeons often faced a learning curve each time they needed to implant the device man-

The injector can be loaded easily by the operating technician, passes readily through a 2.75-mm cataract wound without causing any incisional stress or stretch, and reduces implantation time to about 10 seconds.

ually,” said Dr. Milverton, a surgeon with the Intraocular Implant Unit, Sydney Eye Hospital, Australia. “For surgeons familiar

with IOL injector systems, the Perfect Pupil Injector eliminates the challenge of implantation, and with its longer arm, the new Perfect Pupil Injectable also makes use of this expansion device easier when surgery is performed through a scleral tunnel or limbal incision."

Perfect Pupil Injectable can be easily loaded into the Perfect Pupil Injector by the operating technician so that the system is ready for use by the surgeon. The pupil expansion device is loaded into the tip of the injector and pulled up the shaft by an engaging rod

The engaging rod features a hook-like end that is placed into the proximal positioning hole nearest the arm on the anterior surface of the expansion device. The arm is guided into a slot in the shaft and remains external to the shaft, thus ensuring that it is not injected into the anterior chamber.

For pupils of about 4 mm or larger, Perfect Pupil Injectable can be manipulated directly into the pupil using a bimanual technique, with the injector in

one hand and an angled Sinsky hook through a stab incision in the other. However, the injector system was designed to allow a one-handed placement technique as well.

The Perfect Pupil Injector is introduced straight through the wound into the viscoelastic-filled anterior chamber onto the surface of the iris, with the injector moved slightly tangential to the pupil margin for device release. The injection works well regardless of the type of viscoelastic used, although a more viscous agent that is less likely to come out of the wound as a result of the extra intraocular manipulation occurring in these cases may be preferred, Dr. Milverton said.

Once the injection is completed, the engaging rod is released and retracted into the shaft. Then, the surgeon withdraws the injector from the eye.

Maintenance of the Perfect Pupil Injector is simple. The interior of the injector is cleaned by flushing it with water from a syringe via a plastic tube supplied with the instrument. The injector is con-

structed of stainless steel and autoclavable.

"Using the injector, Perfect Pupil Injectable is loaded directly from its sterile container into a sterile device," Dr. Milverton explained. "In theory, therefore, this technique should improve sterility of the implantation procedure relative to manual implantation during which the device can become contaminated through contact with the ocular surface."○T

FYI

E. John Milverton, MD

Phone: 61 2 9868 3691

Fax: 61 2 9869 7991

E-mail: john.milverton@milvella.com

Dr. Milverton is the inventor of Perfect Pupil. He has a financial interest in Milvella Pty. Ltd., manufacturer of Perfect Pupil Injector and Perfect Pupil Injectable.

milvella

12100 Singletree Lane, Suite 100
Eden Prairie, MN 55344
USA

Tel: 952-746-1369

Fax: 952-746-1201

Email: enquiry@milvella.com

Ferenbacherstrasse 21
8909 Zwillikon
Switzerland

Tel: +41 1 760 43 03

Fax: +41 1 760 43 04

Email: hmb@milvella.com

10 Melrose St.
Epping NSW 2121
Australia

Tel: +61 2 9868 3691

Fax: +61 2 9869 7991

enquiry@milvella.com

©Reprinted from OPHTHALMOLOGY TIMES, October 15, 2003 AN ADVANSTAR PUBLICATION Printed in U.S.A.

Copyright Notice Copyright by Advanstar Communications Inc. Advanstar Communications Inc. retains all rights to this article. This article may only be viewed or printed (1) for personal use. User may not actively save any text or graphics/photos to local hard drives or duplicate this article in whole or in part, in any medium. Advanstar Communications Inc. home page is located at <http://www.advanstar.com>.