CuramMicro™
“ADVANCED TECHNOLOGY FOR BETTER VISUAL ACUITY...”
DIFFRAcX Micro™ - Diffractive Multi-Focal Lens

Yesterday's standards for visual outcomes are no longer considered adequate for the active lifestyles of today. Curamed ophthalmics, for more than 10 years has been quietly and confidently working on new optical systems that will prove to set the standards for others to follow.

Now, after the 2008 introduction of PREBIOPTIX™, the World's first Progressive Multifocal IOL, Curamed is once again leading the way with CuramMicro™, the company's newest venture into the world of advanced optical systems.

HOW IT WORKS

For decades diffractive technology has been used for optical systems in many medical fields, scientific fields and space exploration.

Now, nano-manufacturing technology has advanced enough to create a diffractive intraocular lens perfect enough to make a real difference. Curamed uses leading-edge, true laws of optical physics combined with state of the art bio-medical & nano-technology on high tech equipment to create an optical system that can provide emmetropia to patients as never before.

As light travels through the multiple zones of the lens they are focused on the retina which feeds a myriad of signals to the brain. Neuro-Scientists, Psychologists and Ophthalmologists know that the brain is capable of filtering and sorting multiple images and then centering the attention of a precise image which we view.

CuramMicro uses the brains superior attention to detail to its advantage. The diffractive optical system was designed to supply sharp, crisp images for the brain to sort. Thus allowing for good distant vision, good mid-range vision and good close vision.

While this is not always possible to unforeseen circumstances it is possible in may case.

MORE LIGHT

Curamed has modified the CuramMicro to include its technology from the ASPHERICx intraocular lens line.

Because of that, CuramMicro lenses are aspheric and aberration controlled meaning that there are fewer focal zones to eat up valuable light needed at twilight or dusk.

UNIQUE POLYMERS

Curamed uses only the World's finest polymers made from the purest monomers, those monomers, when precisely and scientifically combined bind into a pure polymer of EthylCotyl(Meth)Acrylate or (EOEIA).

Curamed has been successfully using EOEIA for its lenses for more than a decade with more than 2,000,000 Implants and no adverse reactions and no post surgical complications due to the lens or the plastic.

HOW ITS MADE

The polymers are then carefully and methodically lathe cut on precision air bearing lathes with high end linear slides. Once machined the lenses are carefully tumble polished to remove any tree radicals and then each lens is carefully hand inspect-ted for power, dimension and quality before being called an Curamed Intraocular lens.

CLINICAL DATA

Curamed’s quality process combined with superior plastics have proven to provide superior visual acuity.

MUDr. J. Umlírsky, Ph.D. of the Ophthalmological Clinic, Medical Faculty of the Charles University & University Hospital, Hradec Králové, Czech Republic presented finding from his 135 patient in 2004 that Curamed lenses from EOEIA presented significantly lower PCO rates than other lenses tested.

In addition, long term clinical studies have shown that when properly used implantation of diffractive intraocular lenses can provide excellent long term visual acuity without adverse reaction and without visual misadventures for the patients.

The Archives of Ophthalmology in 1099 published a study called “Bilateral Implantation of Asymmetrical Diffractive Multifocal Intraocular Lenses,” which detailed that eighty percent (80%) of the patients in this study reported no use of spectacles postoperatively.” If good patient selection is used, good results should occur for patients wishing to have bilateral diffractive implants with CuramMicro lenses.

SURGICAL FEATURES

CuramMicro™ IOLs combine many features that will allow the surgeon to have a quality surgical experience and positive surgical outcome using CuramMicro for their patient’s visual needs.

Micro Incision Technology -
Because of its unique features, CuraMicro intraocular lenses can be implanted through 1.6mm to 1.8mm cartridges.

Experience should dictate the size of incision and the size of cartridge to be used. Curamed recommends implanting 0.0 Diopters to 23.0 Diopters through either a 1.6 or 1.8mm cartridge using a silicone cushion on the injector tip. Curamed also recommends using a 1.8mm to a 2.2mm cartridge for Diopters 23.0 to 27.0 and for Dioptic powers above 27.0 Diopters it is recommended surgeons use a 2.2mm to 2.8mm cartridge and silicone cushion tip.

Caution should always be used when injecting an intraocular lens into the capsular bag and inexperienced surgeons should seek proper training before attempting micro incision lens injection.

CuraMicro was designed to be implanted in the capsular bag with the diffractive surface anterior. Surgeons will note a small position indicator on the “Top Right” wing or haptic.

Care should be taken to always implant the lens with the small position indicator to the top right or bottom left or the 100 o’clock or 700 o’clock positions.

Ultra Violet Protection

As with all lenses and optical system from Curamed CuraMicro offers full UV protection against harmful UV rays that studies indicate are harmful to the retina.

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