



TAUBER EYE CENTER

Focus on Vision

Advanced Treatments - Staying at the Cutting Edge

At Tauber Eye Center, we are committed to do all we can to accurately diagnose and treat eye problems and deliver state-of-the-art vision care for our patients. From advanced cataract surgery, to laser vision correction, to complex corneal surgical procedures, we constantly search for new and improved methods to help us accomplish our goal to restore vision for our patients. Several new options are highlighted here:

ADVANCED CORNEAL TRANSPLANTATION

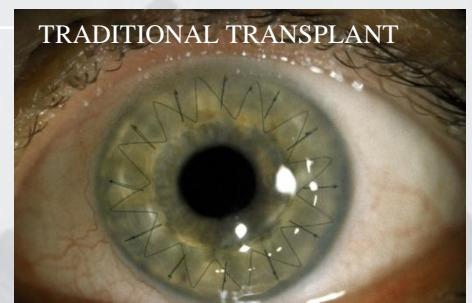
Advanced corneal transplantation allows for replacement of only the portion of the cornea that is affected by a patient's disease, rather than traditional full-thickness transplantation. When scarring affects only the front of the cornea, modern methods allow for partial-thickness transplantation. Since 2005, DSEK (Descemet Stripping Endothelial Keratoplasty) is a technique where only the diseased, inner portion of a patient's cornea can be replaced. DSEK utilizes a much smaller surgical incision and far fewer sutures than a traditional transplant, resulting in more rapid recovery of vision and a lower risk of complications during surgery or in the event of trauma to the eye following surgery. DSEK is appropriate for patients with Fuchs dystrophy and other situations where the cornea is clear but limited by unhealthy endothelial cells. With DSEK, good vision returns within weeks to months instead of months to years. Dr. Tauber is a leader in the Midwest region helping to advance this new technique.

THE ARTIFICIAL CORNEA (KERATOPROSTHESIS)

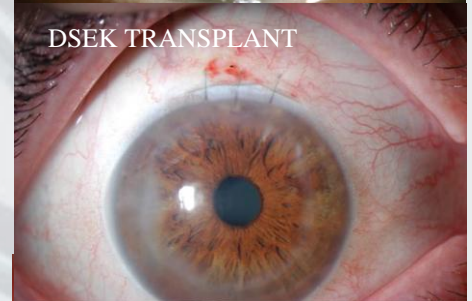
While most people can be helped by "traditional" corneal transplantation or DESK, in some cases such transplantation is hopeless, or nearly so. The Boston Keratoprosthesis (KPro) can be used after previous transplant failure, or when such a transplant would be unlikely to succeed. The Boston KPro has been under constant development since the 1960s and is designed to help patients whose conditions are the most difficult to treat. In 2010, over 1000 KPro implantations were performed. The KPro is made of clear plastic with excellent tissue tolerance and optical properties, and is inserted into a corneal graft, which is then sutured into the patient's cloudy cornea. Dr. Tauber trained with the inventor of this device, and is a national leader in the use of the KPro, offering hope to patients who had believed their vision could not be restored.

MEIBOMIAN GLAND PROBING

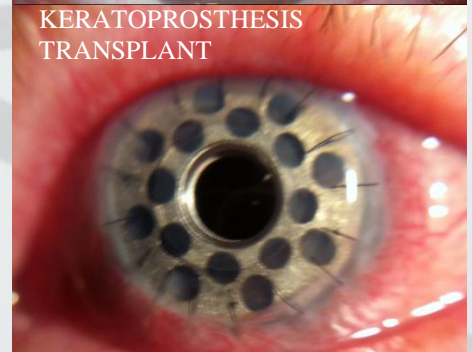
Blepharitis is a common eyelid disease in which inflammation and infection cause chronic irritation, sandy, gritty sensations and blurred vision. Specific methods of eyelid hygiene are useful, but have not brought complete relief to many who suffer from this condition. Dr. Tauber has helped pioneer a new method to help. A 20 minute in-office treatment using tiny probes can break up adhesions and fibrotic bands within the duct of the glands (20-30 per eyelid). Though re-treatment may be needed after some months, as many as 70% of patients report marked relief of their most bothersome symptoms.



TRADITIONAL TRANSPLANT



DSEK TRANSPLANT



KERATOPROSTHESIS TRANSPLANT



GLAND PROBING

IMAGE COURTESY OF STEVEN MAGNIN, MD

Dr. Joseph Tauber specializes in anterior segment surgery, corneal transplantation, the treatment of corneal and external diseases and laser vision correction procedures. A board-certified ophthalmologist, Dr. Tauber received his doctorate from Harvard Medical School, his training in internal medicine at Beth Israel Hospital and in ophthalmology at Tufts-New England Medical Center, all located in Boston, Massachusetts. Dr. Tauber enhanced his medical education with two years of ocular immunology and corneal and external disease fellowship training at the Massachusetts Eye and Ear Infirmary. Dr. Tauber has been performing laser vision correction surgery since 1989, as one of the first ophthalmologists in the U.S. doing these surgeries.

Dr. Tauber has been a principal investigator in over 70 research studies of high-risk corneal transplantation, inflammation and allergic eye diseases, corneal infectious diseases and numerous studies related to dry eye syndrome. He is a member of the American Academy of Ophthalmology, and the Medical Director of the Heartland Lions Eye Bank, which provides corneas for transplant surgeons around the US and internationally. Dr. Tauber has written six book chapters and over 50 articles for such prestigious medical journals as Ophthalmology, Investigative Ophthalmology and Visual Science, Journal of Cataract and Refractive Surgery and Cornea.



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