

# **Corneal Implants Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028**

## **Segmented By Application (Keratoconus, Fuchs Dystrophy, Infectious Keratitis, Corneal Ulcers, others), By Type (Human Cornea, Synthetic) by Surgery (Penetrating Keratoplasty, Endothelial Keratoplasty), by region, and Competition**

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### **Abstracts**

Global Corneal Implants Market was valued at USD 410.60 million in 2022 and is anticipated to witness an impressive growth in the forecast period with a CAGR of 6.10% through 2028. Corneal implants, also known as corneal transplantation or corneal grafting, are surgical procedures that involve replacing a damaged or diseased cornea with a healthy cornea from a donor. The cornea is the clear, dome-shaped front surface of the eye that covers the iris and the pupil, and it plays a critical role in focusing light onto the retina, which is essential for clear vision. Corneal implants are performed to restore vision and treat various corneal diseases or conditions that impact the clarity and function of the cornea. Corneal implants are typically recommended when the cornea is damaged, irregularly shaped, or diseased, resulting in vision impairment or discomfort. For most corneal implants, the donor cornea comes from individuals who have generously donated their corneas upon their passing. These donor corneas are meticulously screened, processed, and stored in eye banks to ensure safety and suitability for transplantation.

The surgical process involves removing the damaged or diseased cornea and replacing it with the donor cornea. Sutures are often used to secure the graft in place. In some minimally invasive procedures, a smaller incision may be made, and the new corneal tissue is folded and inserted into the eye through this smaller opening. After the surgery,

patients typically experience a period of healing and recovery. The eye may be patched, and medications are prescribed to prevent infection and reduce inflammation. Vision recovery can take several weeks to months, and patients are closely monitored during this time. The aging global population is more susceptible to corneal diseases, including age-related conditions. This demographic trend drives the demand for corneal implants. Ongoing advancements in corneal implant technologies, such as the development of artificial corneas, synthetic materials, and minimally invasive surgical techniques, have improved the effectiveness and safety of corneal transplantation procedures. Enhanced patient and healthcare professional awareness regarding the availability of corneal implants as an effective treatment option for vision correction and corneal diseases. The ability to tailor corneal implants to the specific needs of individual patients is a growing trend. Customized and personalized treatments are gaining popularity.

## Key Market Drivers

### Technological Advancements

Researchers have been developing artificial corneas made of biocompatible materials, such as synthetic polymers. These artificial corneas offer an alternative to traditional donor corneal transplants, addressing the issue of donor scarcity and rejection. The use of 3D printing technology has enabled the creation of customized corneal implants. Surgeons can design and fabricate corneal implants that precisely match the patient's eye, leading to improved visual outcomes and reduced risk of complications. Descemet's membrane endothelial keratoplasty (DMEK) and Descemet's stripping automated endothelial keratoplasty (DSAEK) are minimally invasive procedures that replace only the damaged inner layer of the cornea. These techniques offer faster recovery times and reduced complications compared to traditional full-thickness corneal transplants. Femtosecond lasers are used to create precise incisions during corneal transplant surgeries. This technology allows for greater accuracy and safety in the surgical process. Corneal inlays, often used in procedures like Keraring, are small, implantable devices that can correct vision problems such as keratoconus or irregular astigmatism. These inlays are designed to improve the cornea's shape and, consequently, vision. The development of advanced biomimetic hydrogels for use as background materials in corneal implants has improved their compatibility with the eye and reduced the risk of post-operative complications.

Nanotechnology is being explored for its potential to enhance the biocompatibility and stability of corneal implants. Nanoscale materials and structures may be used to

improve implant integration and durability. Advanced technologies for real-time monitoring of corneal health are being developed. These technologies can help patients and doctors track the condition of the implant and identify any issues early on. AI is being used to improve the diagnostic process for corneal conditions and to develop more accurate surgical plans. AI can also aid in the post-operative monitoring of patients' progress. Smart contact lenses are being developed to monitor and deliver treatments for corneal conditions such as glaucoma. These lenses can measure intraocular pressure and dispense medications as needed. Research into gene therapy for corneal conditions is ongoing. This innovative approach aims to correct genetic abnormalities that lead to conditions like corneal dystrophies. This factor will help in the development of the Global Corneal implants Market.

### Rising Aging Population

As people age, they become more susceptible to various corneal conditions. Conditions like Fuchs' dystrophy and bullous keratopathy become more prevalent with age, and these conditions may necessitate corneal transplantation or implantation as treatment. Aging is often associated with an increased incidence of vision problems, including presbyopia (difficulty focusing on close objects) and age-related macular degeneration. These conditions can be compounded by corneal issues, and corneal implants may be used to improve vision in older individuals. Cataracts, which are common among older individuals, can affect the clarity of the cornea. In many cases, cataract surgery is combined with corneal implant procedures to optimize visual outcomes.

With advancements in healthcare and better living conditions, the global population is living longer. This means that individuals are more likely to experience age-related corneal issues and require interventions like corneal implants in their later years. Older adults are often motivated to maintain their quality of life and independence. Good vision is a vital component of a high quality of life, and corneal implants can help achieve and preserve clear vision. Advancements in corneal implant technology have made the procedures safer and more effective, making them an attractive option for older individuals who may have been hesitant in the past. Many older individuals want to maintain active and engaged lifestyles. Good vision is essential for activities like reading, driving, and participating in social and recreational activities. As surgical techniques have evolved, the outcomes of corneal implant procedures have improved, leading to better post-operative vision and quicker recovery times. This has made corneal implants a more viable option for older patients. This factor will pace up the demand of the Global Corneal implants Market.

## Increasing Awareness

Increased awareness among the public about corneal conditions and available treatment options, including corneal implants, ensures that patients and their families are more informed about potential solutions for vision problems. Improved awareness often leads to early diagnosis of corneal conditions. Early detection allows for timely intervention and treatment, which can include corneal implants, thereby preventing the progression of the condition. Educated patients are more likely to take an active role in their healthcare decisions. They can engage in discussions with healthcare professionals, ask questions, and express their preferences, which can lead to the consideration of corneal implants as a viable treatment option. In some cases, individuals may have concerns or misconceptions about corneal implant procedures. Increasing awareness can help dispel myths and reduce stigma, making people more open to the idea of corneal implants. When healthcare providers, including ophthalmologists and optometrists, are well-informed about corneal implant options and their suitability for different conditions, they can discuss these options with patients and recommend them when appropriate.

Awareness campaigns, public health programs, and outreach efforts can inform people about the importance of eye health and the available treatments. These initiatives contribute to the recognition of corneal implants as a valuable treatment modality. The availability of information through various media channels, including the internet, brochures, educational materials, and healthcare websites, provides individuals with access to details about corneal implants and how they can benefit from these procedures. Patient advocacy groups and organizations focused on eye health often work to raise awareness and provide resources to individuals facing corneal conditions. They play a significant role in educating and empowering patients. Awareness can spread through word of mouth, as individuals who have undergone successful corneal implant procedures share their experiences with others. Positive testimonials can inspire more people to consider these treatments. Media coverage of medical breakthroughs and success stories related to corneal implants can raise public awareness and generate interest in these procedures. This factor will accelerate the demand of the Global Corneal implants Market.

## Key Market Challenges

### Rejection and Complications

The human body's immune system is designed to protect against foreign invaders,

including transplanted tissue. In the case of corneal transplantation, the recipient's immune system can recognize the donor cornea as foreign and may initiate an immune response to reject it. This immune response can lead to graft rejection, which may result in vision loss. Graft failure can occur when the transplanted cornea does not integrate properly with the recipient's eye or when complications arise, leading to poor visual outcomes. Graft failure can be caused by various factors, including infection, poor wound healing, or issues related to donor tissue. Post-surgical infections can pose a significant risk to corneal implant recipients.

Infections can compromise the success of the transplant and may lead to severe complications, including graft failure. Irregular healing and wound-related issues after corneal implant surgery can induce astigmatism, which can distort vision. This is a common complication that patients may face. Elevated intraocular pressure (IOP) resulting from corneal implant surgery or associated treatments can lead to glaucoma, a condition that can cause optic nerve damage and vision loss if not managed appropriately. In procedures like DMEK or DSAEK, there may be a risk of endothelial cell loss, which can lead to graft failure or persistent corneal edema. The use of corticosteroid medications to prevent graft rejection can lead to side effects, including cataracts and increased intraocular pressure. In conditions like keratoconus, where the cornea progressively thins and bulges, corneal hydrops may occur post-implantation, causing sudden corneal swelling and scarring.

### Infection and Disease Transmission

Any surgical procedure, including corneal transplantation, carries a risk of infection. Infections can occur at the surgical site and, if not promptly and effectively treated, can lead to complications and graft failure. Corneal infections can be caused by bacteria, fungi, or viruses. Some common pathogens associated with corneal infections include *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Candida* species, and herpes simplex virus. The post-operative management of corneal transplant recipients is critical in reducing the risk of infection. Compliance with prescribed medications and hygiene protocols is essential to prevent infections. When using donated human corneal tissue for transplantation, there is always a concern about the potential transmission of infectious diseases from the donor to the recipient. To mitigate this risk, thorough donor screening and testing are essential. Donor corneas are typically rigorously screened and tested to ensure their safety.

Maintaining sterile conditions during surgery and adhering to aseptic techniques are vital to prevent infections. Surgeons and operating room staff must follow strict protocols

to minimize the risk of contamination. The use of prophylactic antibiotics or antiviral medications before and after surgery is often employed to reduce the risk of post-operative infections. In some cases, a post-operative corneal ulcer can develop due to infection. These ulcers can be severe and require immediate treatment to prevent complications. Patients with a history of herpetic eye disease (e.g., herpes simplex or herpes zoster) are at higher risk of recurrent infections following corneal transplantation. Special precautions and antiviral medications may be necessary in these cases.

## Key Market Trends

### Minimally Invasive Procedures

Minimally invasive techniques often result in quicker post-operative recovery. Patients experience less discomfort and a shorter healing period, allowing them to return to their normal activities sooner. Minimally invasive procedures can lead to fewer complications compared to traditional, full-thickness corneal transplant procedures. This is particularly important in reducing the risk of graft rejection and infection. Minimally invasive techniques involve smaller incisions, which can lead to less trauma to the eye. Smaller incisions can also lead to better wound healing and less astigmatism. These procedures often result in improved visual outcomes, as they target the specific layers of the cornea that are affected by certain conditions, such as endothelial diseases like Fuchs' dystrophy. Minimally invasive procedures can be highly customized to the patient's individual needs. Surgeons can precisely target the affected area of the cornea, leading to better outcomes. Minimally invasive techniques tend to reduce astigmatism, which can significantly improve the patient's visual quality. Some minimally invasive procedures, such as Descemet's membrane endothelial keratoplasty (DMEK) and Descemet's stripping automated endothelial keratoplasty (DSAEK), focus on replacing only the inner layers of the cornea, which can be especially beneficial for certain conditions like Fuchs' dystrophy. Patients often experience a faster return to good vision with minimally invasive procedures, which is especially important for their quality of life and daily activities.

## Segmental Insights

### Type Insights

In 2022, the Global Corneal Implants Market largest share was held by human tissue segment and is predicted to continue expanding over the coming years. Human donor corneal tissue, also known as allografts, is inherently biocompatible with the recipient's

body. This reduces the risk of immune rejection and complications compared to synthetic or artificial materials. Human donor corneal tissue has a long history of successful use in corneal transplantation procedures. Surgeons are well-trained in performing surgeries using human tissue, which has contributed to its continued popularity. Many countries and regions have established eye banks and organ donation systems that provide a steady supply of human corneal tissue for transplantation. This availability makes it a convenient choice for many patients. Human tissue transplantation is well-regulated in most countries, ensuring that donor corneas are carefully screened, processed, and stored to meet stringent safety standards. This regulatory oversight adds to the trust and confidence in using human tissue. Human donor tissue can be used for a variety of corneal conditions, including full-thickness and partial-thickness transplants, making it versatile in addressing different patient needs. Many cultures and societies have a strong tradition of organ and tissue donation, which supports the availability of donor corneas and the acceptance of human tissue transplantation.

### Application Insights

In 2022, the Global Corneal Implants Market largest share was held by Fuchs dystrophy segment and is predicted to continue expanding over the coming years. Fuchs' dystrophy is a progressive eye condition that affects the cornea, particularly its inner layer (endothelium). It can lead to vision problems and, in severe cases, may necessitate a corneal transplant. If the prevalence of Fuchs' dystrophy is high, it can drive the demand for corneal implants to treat this specific condition. Advances in the diagnosis and treatment of Fuchs' dystrophy may have led to an increased number of patients opting for corneal implants as a viable treatment option. These advancements may include the development of more effective surgical techniques, such as Descemet's membrane endothelial keratoplasty (DMEK) or Descemet's stripping automated endothelial keratoplasty (DSAEK), which are specifically designed for endothelial diseases like Fuchs' dystrophy. Increased awareness among both patients and healthcare professionals about the availability and efficacy of corneal implants for Fuchs' dystrophy may have contributed to its prominence in the market. Fuchs' dystrophy is more common in older individuals, and as the global population ages, the prevalence of this condition may increase, thereby driving the demand for corneal implants.

### Surgery Insights

In 2022, the Global Corneal Implants Market largest share was held by penetrating

keratoplasty segment in the forecast period and is predicted to continue expanding over the coming years. Penetrating keratoplasty (PKP) is one of the oldest and most established corneal transplant procedures. It has a well-documented history of success in treating a wide range of corneal diseases, making it a preferred choice for many years. PKP has a track record of high success rates in restoring vision and improving corneal conditions. It is especially effective in treating conditions like advanced keratoconus and corneal scarring. Many ophthalmic surgeons and healthcare institutions are experienced in performing PKP procedures. This widespread adoption and familiarity with the technique contribute to its prominence in the market. PKP typically relies on donated human corneal tissue. In regions with well-established eye banks and organ donation systems, a steady supply of corneal grafts is available, making PKP a viable option. PKP can be used to address a wide range of corneal conditions, including full-thickness corneal damage. This versatility has made it a preferred choice for a broad spectrum of patients.

## Regional Insights

The North America region dominates the Global Corneal Implants Market in 2022. North America, particularly the United States and Canada, boasts a well-developed and advanced healthcare infrastructure. This includes state-of-the-art eye care facilities, medical institutions, and surgical centers, which are well-equipped to offer corneal implant procedures. North America has a relatively higher prevalence of corneal diseases, such as keratoconus, Fuchs' dystrophy, and others, due to factors like lifestyle, genetics, and an aging population. This increased prevalence drives the demand for corneal implant procedures. North America is a hub for medical research and innovation. Ongoing technological advancements in the field of ophthalmology and corneal implants are more likely to emerge and gain widespread adoption in this region. North America has stringent regulatory bodies, such as the U.S. Food and Drug Administration (FDA) and Health Canada, which help maintain high safety and quality standards for medical devices, including corneal implants. This fosters trust among patients and healthcare providers. The region has some of the highest healthcare expenditure in the world, allowing patients to access advanced medical treatments, including corneal implant procedures.

## Key Market Players

Florida Lions Eye Bank

Alcon Inc.



Auro Laboratories Ltd.

CorneaGen Inc.

AJL Ophthalmic S.A.

DIOPTEx

Massachusetts Eye and Ear Associates Inc.

San Diego Eye Bank

KeraMed, Inc.

Presbia PLC

Report Scope:

In this report, the Global Corneal Implants Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Corneal Implants Market, By Type:

Human Cornea

Synthetic

Corneal Implants Market, By Application:

Keratoconus

Fuchs Dystrophy

Infectious Keratitis

Corneal Ulcers

others

Corneal Implants Market, By Surgery:

Penetrating Keratoplasty

Endothelial Keratoplasty

Corneal Implants Market, By region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

South Korea

Australia

Japan

Europe

Germany

France

United Kingdom

Spain

Italy

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Corneal Implants Market.

Available Customizations:

Global Corneal Implants Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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