

Eye Bank Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Ownership (Hospitals, Non-Profit Organizations, Private Organizations), By Structure (Eye Bank Only Functions, Tissue and Eye Bank Functions, Recovery Centers, Processing Centers, Distribution Centers, Multicenter Eye Banks), By Region and Competition, 2019-2029F

<https://marketpublishers.com/r/E616843075FAEN.html>

Date: April 2024

Pages: 185

Price: US\$ 4,900.00 (Single User License)

ID: E616843075FAEN

Abstracts

Global Eye Bank Market was valued at USD 1.14 Billion in 2023 and is anticipated to project impressive growth in the forecast period with a CAGR of 7.48% through 2029. The Global Eye Bank Market refers to the collective industry involved in the procurement, preservation, and distribution of human eye tissues for transplantation and research purposes. Eye banks play a critical role in facilitating corneal transplants, which are essential procedures for restoring vision in individuals suffering from corneal diseases or injuries. This market encompasses various stakeholders, including eye banks, hospitals, tissue banks, and research institutions, all working together to address the growing demand for corneal tissue worldwide. Factors such as advancements in surgical techniques, increasing prevalence of eye disorders, and rising awareness about the importance of eye donation are driving the expansion of this market.

Key Market Drivers

Advancements in Surgical Techniques Technology

The Global Eye Bank Market is being propelled forward by continual advancements in

surgical techniques and technology. With the advent of minimally invasive procedures and innovative surgical instruments, corneal transplant surgeries have become safer, more effective, and accessible to a broader patient population. Sophisticated imaging technologies such as optical coherence tomography (OCT) and confocal microscopy enable surgeons to assess corneal health with unprecedented precision, leading to improved patient outcomes. The development of new surgical approaches, such as Descemet's membrane endothelial keratoplasty (DMEK) and Descemet's stripping automated endothelial keratoplasty (DSAEK), has revolutionized the field by offering faster recovery times and better visual acuity compared to traditional full-thickness corneal transplants. These advancements not only increase the demand for corneal tissue but also drive the need for efficient eye banking systems capable of providing high-quality donor tissue for these advanced procedures.

Growing Prevalence of Eye Disorders Injuries

The increasing prevalence of eye disorders and injuries worldwide is a significant driver fueling the growth of the Global Eye Bank Market. Conditions such as corneal dystrophies, keratoconus, and corneal scarring resulting from trauma or infections contribute to a rising demand for corneal transplants. Age-related conditions such as Fuchs' endothelial dystrophy and bullous keratopathy are becoming more prevalent as populations age, further driving the need for corneal tissue. The escalating incidence of ocular injuries due to factors like accidents, industrial mishaps, and sports-related trauma underscores the critical role of eye banks in providing timely access to donor tissue for corneal repair and restoration of vision. As the global burden of eye diseases continues to increase, the demand for corneal transplants is expected to rise, thereby driving the growth of the eye banking market.

Rising Awareness about Eye Donation Transplantation

Increasing public awareness about the importance of eye donation and transplantation is a key driver shaping the Global Eye Bank Market. Efforts by governments, non-profit organizations, and healthcare agencies to promote eye donation through educational campaigns, community outreach programs, and advocacy initiatives have resulted in greater acceptance and participation in eye donation programs globally. Public perception regarding the altruistic act of donating corneal tissue after death has improved, leading to higher rates of eye donation and consequently, increased availability of donor corneas for transplantation. Media coverage and testimonials from transplant recipients have played a crucial role in raising awareness and dispelling myths surrounding eye donation, thereby fostering a supportive environment for eye

banking initiatives worldwide.

Technological Innovations in Eye Banking Procedures

Technological innovations in eye banking procedures are driving significant advancements in the Global Eye Bank Market. From improved methods of corneal tissue procurement and preservation to enhanced quality assessment techniques, technological innovations are optimizing every aspect of the eye banking process. Automated corneal dissection systems, for instance, enable precise and reproducible preparation of donor corneal tissue for transplantation, reducing surgical time and improving graft survival rates. Advancements in tissue preservation methods, such as hypothermic storage and organ culture systems, help maintain corneal viability over extended periods, expanding the reach of eye banks and facilitating global distribution of donor tissue. The integration of artificial intelligence (AI) and machine learning algorithms into eye banking operations holds promise for enhancing donor screening, tissue matching, and post-transplant monitoring, thereby improving transplant outcomes and patient care.

Key Market Challenges

Disparities in Access to Eye Care Services

Disparities in access to eye care services present significant challenges to the Global Eye Bank Market, particularly in underserved and marginalized communities. Limited access to eye care facilities, shortage of trained ophthalmic professionals, and socioeconomic barriers such as poverty and lack of health insurance contribute to disparities in the provision of corneal transplantation services. In many low- and middle-income countries, the infrastructure and resources required for establishing and maintaining eye banking facilities are often inadequate, leading to long waiting lists for corneal transplants and a disproportionate burden of vision impairment and blindness. Geographic barriers and logistical challenges in transporting donor tissue from remote or rural areas to centralized eye banking centers further exacerbate disparities in access to corneal transplantation. Addressing these disparities requires concerted efforts to improve healthcare infrastructure, expand ophthalmic workforce capacity, and implement innovative strategies such as mobile eye care units and telemedicine to reach underserved populations effectively.

Quality Assurance and Tissue Shortages

Quality assurance and tissue shortages are significant challenges facing the Global Eye Bank Market. Ensuring the safety and efficacy of donor corneal tissue for transplantation requires rigorous quality assurance measures, including thorough screening for infectious diseases, assessment of tissue viability, and adherence to strict processing and storage protocols. However, maintaining high-quality standards throughout the eye banking process can be challenging, particularly in resource-constrained settings with limited access to advanced diagnostic and laboratory facilities. Fluctuations in donor availability and unpredictable patterns of tissue procurement can lead to periodic shortages of donor corneas, resulting in delays or cancellations of scheduled transplant surgeries and compromising patient care. Addressing these challenges necessitates the implementation of robust quality management systems, continuous training of eye banking personnel, and efforts to increase public awareness and participation in eye donation programs to alleviate tissue shortages and meet the growing demand for corneal transplantation.

Key Market Trends

Increasing Healthcare Expenditure and Infrastructure Development

The increasing healthcare expenditure and infrastructure development worldwide are contributing to the growth of the Global Eye Bank Market. As healthcare systems invest in expanding their capacity to diagnose and treat eye disorders, there is a corresponding need for adequate infrastructure to support corneal transplant services, including eye banks and tissue processing facilities. Governments and healthcare organizations are allocating resources towards the establishment of regional and national eye banking networks, equipped with state-of-the-art facilities and staffed by trained professionals, to meet the growing demand for corneal tissue transplantation. Rising disposable incomes and improvements in healthcare access in emerging economies are driving higher patient demand for elective procedures such as corneal transplantation, thereby stimulating market growth and investment in eye banking infrastructure.

Demographic Trends and Aging Population

Demographic trends, particularly the aging population, are significant drivers influencing the Global Eye Bank Market. As populations worldwide continue to age, the prevalence of age-related eye conditions such as corneal endothelial dysfunction and macular degeneration is expected to rise, leading to an increased demand for corneal transplants. Older individuals are more susceptible to corneal diseases and injuries,

necessitating timely access to donor tissue for vision restoration. Changing lifestyle factors such as increased screen time and exposure to environmental pollutants contribute to the rising incidence of ocular disorders across age groups, further underscoring the importance of eye banking in meeting the healthcare needs of aging populations.

Segmental Insights

Ownership Insights

Based on the Ownership, non-profit organizations are often at the forefront and dominate the global eye bank market. Non-profit organizations dedicated to eye banking typically focus on advancing the mission of facilitating corneal transplantation and promoting eye donation to alleviate blindness worldwide. These organizations often operate as independent entities or in collaboration with healthcare institutions, universities, and government agencies, playing a pivotal role in coordinating donor recruitment, tissue procurement, processing, and distribution activities. One key reason for the dominance of non-profit organizations in the eye banking sector is their altruistic mission and commitment to serving the public good. Unlike for-profit entities driven primarily by financial incentives, non-profit organizations prioritize the provision of equitable access to corneal transplantation services, irrespective of patients' ability to pay. They often rely on philanthropic donations, grants, and fundraising efforts to sustain their operations and expand their reach, thereby fostering a culture of community engagement and social responsibility in addressing the global burden of blindness.

Non-profit eye banks are also instrumental in advocating for policy reforms, raising public awareness about eye donation, and promoting best practices in tissue procurement and transplantation. Through educational campaigns, outreach programs, and partnerships with healthcare providers and government agencies, non-profit organizations strive to dispel myths and misconceptions surrounding eye donation, encourage donor registration, and ensure ethical standards and regulatory compliance in the eye banking process.

Structure Insights

Based on the structure segment, multicentre eye Banks are often dominating the Global Eye Bank Market. Multicenter eye banks operate on a larger scale and serve as centralized hubs for coordinating multiple aspects of the eye banking process, including

donor recruitment, tissue procurement, processing, distribution, and transplantation services. These eye banks typically collaborate with a network of regional or satellite facilities, recovery centers, processing centers, and distribution centers to streamline operations, optimize resource utilization, and enhance the efficiency and reach of corneal transplantation services.

One key advantage of Multicenter Eye Banks is their ability to leverage economies of scale and centralized resources to meet the growing demand for donor corneal tissue worldwide. By pooling together donor resources from multiple geographic regions and coordinating procurement and distribution activities centrally, Multicenter Eye Banks can mitigate tissue shortages, reduce waiting times for transplant recipients, and ensure equitable access to donor tissue across diverse patient populations. Multicenter Eye Banks play a pivotal role in standardizing best practices, quality assurance protocols, and regulatory compliance across their network of affiliated facilities. By implementing uniform operating procedures, training protocols, and quality control measures, Multicenter Eye Banks can maintain consistency in tissue evaluation, processing techniques, and transplantation outcomes, thereby enhancing patient safety and graft efficacy.

Regional Insights

North America, particularly the United States, has traditionally been a significant player in the global eye bank market. The United States boasts a well-established network of eye banks, accredited by organizations such as the Eye Bank Association of America (EBAA), which adhere to stringent regulatory standards and quality assurance protocols. These eye banks serve a large population of patients in need of corneal transplantation and contribute to cutting-edge research and innovation in the field of ophthalmology. The United States benefits from a robust healthcare system, advanced medical infrastructure, and a culture of philanthropy that supports eye donation and transplantation initiatives.

Europe is another region with a strong presence in the global eye bank market. Countries such as the United Kingdom, Spain, Italy, and the Netherlands have well-developed eye banking networks that cater to the needs of their respective populations. The European Union (EU) has established regulatory frameworks, such as the EU Tissue and Cells Directives, to ensure the safety and quality of human donor tissues, including corneas, across member states. European eye banks collaborate closely with healthcare providers, research institutions, and international organizations to advance the field of corneal transplantation and address emerging challenges, such as tissue

shortages and regulatory compliance.

Key Market Players

Central Eye Bank of Iran (CEBI)

Ramayamma International Eye Bank

Illinois Eye Bank

SightLife

Eye Bank of Ethiopia

National Eye Bank (All India Institute of Medical Sciences)

Sheikh Khalifa Medical City (SKMC)

Advancing Sight Network

Baton Rouge Regional Eye Bank (BRREB)

Central Ohio Lions Eye Bank

Report Scope:

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

Eye Bank Market,By Ownership:

- oHospitals

- oNon-Profit Organizations

- oPrivate Organizations

Eye Bank Market,By Structure:

- oEye Bank Only Function

- oTissue and Eye Bank Functions

- oRecovery Centers

- oProcessing Centers

- oDistribution Centers

- oMulticenter Eye Bank

Eye Bank Market, By Region:

- oNorth America

 - United States

 - Canada

 - Mexico

- oEurope

 - France

 - United Kingdom

 - Italy

 - Germany

 - Spain

- oAsia-Pacific

 - China

India

Japan

Australia

South Korea

oSouth America

Brazil

Argentina

Colombia

oMiddle East Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Eye Bank Market.

Available Customizations:

Global Eye Bank 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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