

U.S. Artificial Corneal Implants Market Size, Share & Trends Analysis Report By Transplant Type (Hard Keratoprosthesis, Soft Keratoprosthesis), By Indication (Ocular Cicatricial Pemphigoid, Keratoconus), By Implant Type (Synthetic, Biosynthetic), By End-use, And Segment Forecasts, 2025 - 2033

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Abstracts

U.S. Artificial Corneal Implants Market Summary

The U.S. artificial corneal implants market size was estimated at USD 39.1 million in 2024 and is projected to reach USD 69.8 million by 2033, growing at a CAGR of 6.7% from 2025 to 2033. The market is driven by an increasing prevalence of corneal disorders such as corneal blindness and a shortage of cornea donors, which is leading patients and surgeons to seek synthetic alternatives.

The market is driven by increasing incidences of Keratoconus, Stevens-Johnson syndrome, and corneal scarring, which remain leading causes of vision impairment. The increasing prevalence of these disorders among the aging U.S. population has further increased the need for effective treatment solutions. According to the National Council on Aging, in 2022, the U.S. had 57.8 million adults aged 65 and older, comprising 31.9 million women and 25.9 million men.

To address this demand, key market participants invest heavily in R&D, securing regulatory approvals, and collaborating with clinical and academic institutions to introduce innovative implant solutions. Strategic initiatives, including partnerships, geographic expansion, and integration of advanced biomaterials, enhance their

competitive positioning and expand market reach. In January 2025, Pantheon Vision collaborated with Eyedeal Medical to advance production and commercialization of its bioengineered corneal implant. Pantheon completed three FDA review meetings for Premarket approval (PMA) guidance. The partnership aimed to address limitations of donor corneas by offering bioengineered corneal implants and restoring vision in patients with corneal blindness.

U.S. Artificial Corneal Implants Market Report Segmentation

This report forecasts revenue growth at country level as well as provides an analysis of the latest trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. artificial corneal implants market report on the basis of transplant type, indication, implant type, and end-use:

Transplant Type Outlook (Revenue, USD Million, 2021 - 2033)

Hard Keratoprosthesis

Boston Kpro

Osteo-Odonto-Keratoprosthesis

Soft Keratoprosthesis

Indication Outlook (Revenue, USD Million, 2021 - 2033)

Stevens-Johnson Syndrome (SJS)

Ocular Cicatricial Pemphigoid (OCP)

Ocular burns

Keratoconus

Corneal Stromal Dystrophies

Others

Implant Type Outlook (Revenue, USD Million, 2021 - 2033)

Synthetic

Biosynthetic

End-use Outlook (Revenue, USD Million, 2021 - 2033)

Hospitals

Ophthalmic Centers

Ambulatory Surgical Centers

This report can be delivered to the clients within 2 Business Days

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