

Biological Skin Substitutes Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Type (Human Donor Tissue-Derived Products, Acellular Animal Derived Products, Biosynthetic Products), By Application (Chronic Wounds v/s Acute Wounds), By End User (Hospitals & Clinics, Ambulatory Care Centers, Others), Region and Competition

<https://marketpublishers.com/r/BE70DC255C82EN.html>

Date: October 2023

Pages: 183

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

ID: BE70DC255C82EN

Abstracts

In 2022, the biological skin substitutes market reached a valuation of USD 403.09 million, and it is poised to experience robust growth in the forecast period, with a projected Compound Annual Growth Rate (CAGR) of 8.08% through 2028. This growth can be attributed to several factors, including an escalating incidence of chronic wounds, an expanding geriatric population, and the growing adoption of regenerative medicine techniques.

The market for biological skin substitutes has witnessed significant expansion in recent years, and this trend is anticipated to persist throughout the forecast period. These substitutes find application in the treatment of a diverse array of wounds, encompassing burns, diabetic foot ulcers, and surgical wounds. They are fabricated from a variety of materials, ranging from animal and human tissues to synthetic materials and their combinations.

A prominent driver stimulating growth in the biological skin substitutes market is the escalating occurrence of chronic wounds, particularly prevalent in aging demographics. Chronic wounds are challenging to treat and frequently necessitate interventions

exceeding conventional wound care approaches to facilitate proper healing. Concurrently, the demand for advanced wound care products is growing, aiming to enhance healing outcomes and curtail the overall cost of care.

Furthermore, the augmentation of the biological skin substitutes market is facilitated by the mounting embrace of regenerative medicine methodologies. Regenerative medicine employs stem cells and other biologic entities to prompt tissue regeneration and repair. As the domain of regenerative medicine advances, the utilization of biological skin substitutes is poised to become more prevalent.

The expansion of the biological skin substitutes market is also propelled by the introduction of novel products that promise improved healing outcomes and reduced risks of complications. For instance, select biological skin substitutes are engineered to mimic the structural and functional characteristics of natural skin. This emulation can enhance healing outcomes and diminish the likelihood of rejection or infection.

Nonetheless, the market faces challenges stemming from the substantial costs associated with these products. While biological skin substitutes offer tangible advantages over traditional wound care methods, their production costs can be considerable, and insurance coverage may not be universally available. Consequently, access to these products for patients who stand to benefit from them could be restricted.

In spite of these challenges, the trajectory for growth in the biological skin substitutes market remains optimistic. The growing demand for advanced wound care products is anticipated to expedite the development of innovative biological skin substitutes. Moreover, advancements in regenerative medicine and tissue engineering are anticipated to further propel market expansion.

Additionally, the rise in the application of regenerative medicine techniques is bolstering market growth. Regenerative medicine involves the utilization of stem cells and other biologic materials to incite tissue regeneration and repair. The growing popularity of regenerative medicine techniques in the treatment of chronic wounds has led to an increased demand for biological skin substitutes.

Furthermore, there is a growing preference for biological skin substitutes crafted from natural materials, including animal and human tissues. This preference is based on the lower risk of adverse reactions or rejection associated with these natural materials when compared to synthetic alternatives.

The development of pioneering technologies such as 3D printing and tissue engineering is driving innovation within the biological skin substitutes market. These technologies are enabling the creation of intricate and sophisticated skin substitutes that more closely replicate the structure and function of natural skin.

Recent years have witnessed a surge in product launches and developments in the realm of biological skin substitutes. This surge is fueled by the escalating demand for advanced wound care products and the increasing embrace of regenerative medicine techniques.

For instance, Organogenesis, Inc., a prominent provider of regenerative medicine solutions, introduced an updated version of its Apligraf product in 2021. Apligraf is a bi-layered living cell therapy employed in the treatment of diabetic foot ulcers and venous leg ulcers. The enhanced version boasts an extended shelf life and improved handling properties, facilitating ease of use for healthcare providers.

Furthermore, Mallinckrodt Pharmaceuticals, a specialized pharmaceutical company, secured FDA approval for its StrataGraft® product in 2020. StrataGraft® constitutes regenerative skin tissue used to address deep partial-thickness burns. It is created from human cells and designed to closely emulate the structure and functionality of natural skin. This product offers a fresh treatment avenue for patients afflicted with deep partial-thickness burns who may not be suitable candidates for autografting.

In a similar vein, MyOwn Medicines, a regenerative medicine entity, launched MyOwn Skin™ in 2021. MyOwn Skin™ is a personalized skin substitute crafted from the patient's own skin cells. This product is tailored for the treatment of chronic wounds, such as diabetic foot ulcers and venous leg ulcers. This personalized approach to skin substitutes is poised to enhance healing outcomes while reducing the potential for adverse reactions or rejection.

Increasing Adoption of Regenerative Medicine Techniques

The escalating adoption of regenerative medicine techniques is exerting a profound influence on the expansion of the worldwide market for biological skin substitutes. Regenerative medicine encompasses the utilization of stem cells, growth factors, and other biologic constituents to stimulate the rejuvenation and reparation of tissues.

As the incorporation of regenerative medicine techniques becomes more pervasive,

there is an anticipated surge in the requisition for biological skin substitutes. These products play a pivotal role in numerous regenerative medicine strategies and are frequently employed to furnish a structural framework for the revitalization and mending of tissues.

The intensifying interest in regenerative medicine techniques is driving augmented investments in research and development within the field. This impetus is propelling innovation, ultimately culminating in the creation of novel and enhanced biological skin substitutes that offer superior support for tissue rejuvenation and restoration.

The embrace of regenerative medicine techniques is poised to broaden the comprehensive market for biological skin substitutes. The rationale behind this expansion is that these techniques are being harnessed to address a more extensive spectrum of conditions, spanning from chronic wounds and burns to reconstructive surgery.

The application of regenerative medicine techniques, which encompasses the utilization of biological skin substitutes, is closely correlated with enhanced recuperative outcomes. These products have been substantiated to stimulate tissue regeneration and repair, subsequently contributing to expedited recovery periods and ameliorated functional results for patients.

Moreover, regenerative medicine techniques, including the employment of biological skin substitutes, are often associated with cost-effectiveness. By stimulating tissue renewal and mending, these products have the potential to mitigate the necessity for more intricate and costly interventions, such as skin grafts and reconstructive surgery. The growing traction gained by regenerative medicine techniques is significantly shaping the trajectory of the global biological skin substitutes market. As these techniques become more widely integrated, the demand for biological skin substitutes is expected to amplify, thereby catalyzing innovation and fostering the expansion of the overarching market for these products.

Growing Incidences of Chronic Wounds

The escalating prevalence of chronic wounds is a pivotal determinant in shaping the expansion of the worldwide market for biological skin substitutes. Chronic wounds denote wounds that exhibit protracted healing periods and constitute a significant global health concern. They can arise due to an array of factors, encompassing diabetes, impaired circulation, and pressure ulcers. In addressing chronic wounds, biological skin

substitutes are garnering increasing attention and are regarded as a promising remedy for this challenge.

As the frequency of chronic wounds surges, there is a concomitant rise in the demand for efficacious treatment alternatives. Within this context, biological skin substitutes emerge as a viable solution and are progressively gaining traction within healthcare domains as providers seek innovative avenues for managing chronic wounds.

Innovations in technology are propelling the creation of novel and enhanced biological skin substitutes that are adept at fostering tissue regeneration and repair. This transformative process is instigating innovation within the market and leading to the formulation of products that manifest heightened effectiveness in addressing chronic wounds.

The augmenting prevalence of chronic wounds is engendering an expansion of the overarching market for biological skin substitutes. These products are being harnessed to combat an increasingly diverse range of conditions, including pressure ulcers, diabetic foot ulcers, and venous leg ulcers.

Biological skin substitutes have demonstrated their capacity to stimulate tissue regeneration and repair, thereby culminating in ameliorated healing outcomes for individuals contending with chronic wounds. This enhancement translates into swifter recovery periods and an improved quality of life for patients grappling with these conditions.

Furthermore, the utilization of biological skin substitutes in the management of chronic wounds can yield economic benefits for healthcare providers. These products possess the potential to curtail the necessity for more invasive and costly interventions, such as skin grafts and reconstructive surgery.

The escalating incidence of chronic wounds constitutes a paramount influencer driving the evolution of the global biological skin substitutes market. As the quest for effective therapeutic alternatives gathers momentum, healthcare providers are increasingly looking to biological skin substitutes as a propitious solution.

Market Segmentation

Global Biological Skin Substitutes market can be segmented on the basis of type, application, end user and region. Based on type, the market can be further divided into

human donor tissue-derived products, acellular animal derived products, and biosynthetic products. Based on application, the market is further bifurcated into chronic wounds and acute wounds. Based on end user, the market is divided into hospitals & clinics, ambulatory care centers, and others. On the basis of region, the market is divided into North America, Europe, Asia Pacific, South America, and Middle East & Africa.

Market Players

Smith & Nephew, plc, 3M Company, Organogenesis, Inc., Stratatech Corporation, Integra LifeSciences Corporation, Tissue Regenix Group, Mimedx Group are some of the leading players operating in the global Biological Skin Substitutes market.

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Report Scope:

In this report, global Biological Skin Substitutes market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Biological Skin Substitutes Market, By Type:

Human Donor Tissue-Derived Products

Acellular Animal Derived Products

Biosynthetic Products

Biological Skin Substitutes Market, By Application:

Chronic Wounds

Acute Wounds

Biological Skin Substitutes Market, By End User:

Hospitals & Clinics

Ambulatory Care Centers

Others

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in Global Biological Skin Substitutes Market.

Available Customizations:

With the given market data, TechSci 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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