

Tissue Engineering Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Material Type (Synthetic Materials, Biologically Derived Materials, Others), By Application (Orthopedics, Musculoskeletal & Spine, Neurology, Cardiology, Skin & Integumentary, Others), By End User (Hospitals, Cancer Research Centers, Academic and Research Institutes, Others) By Region and Competition

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Abstracts

Global Tissue Engineering Market has valued at USD 13.89 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 8.38 % through 2028. The Global Tissue Engineering Market has emerged as a dynamic and rapidly evolving sector within the broader field of regenerative medicine and biotechnology. Tissue engineering involves the application of principles from biology, chemistry, and engineering to create functional tissues and organs for medical purposes. This innovative field is driven by the increasing demand for organ transplants, a shortage of donor organs, and the need for advanced therapeutic solutions.

One of the primary factors fueling the growth of the global tissue engineering market is the rising prevalence of chronic diseases and injuries, such as cardiovascular diseases, diabetes, and orthopedic conditions. Tissue engineering offers promising avenues for the development of patient-specific solutions, including engineered organs, tissues, and implants, to address these health challenges. Additionally, the aging population worldwide contributes to the market's expansion, as elderly individuals often require tissue-based therapies to improve their quality of life.

Furthermore, advancements in biotechnology, biomaterials, and 3D printing technologies have propelled tissue engineering to new heights. Researchers and companies are increasingly leveraging these innovations to create complex, functional tissues that closely mimic the natural counterparts, enhancing the success rates of transplants and reducing the risk of rejection. The integration of stem cell research, gene editing techniques like CRISPR-Cas9, and biocompatible materials has paved the way for personalized medicine approaches within tissue engineering.

The global tissue engineering market is characterized by a diverse range of applications, including skin grafts, bone and cartilage repair, heart valves, and even whole organs like kidneys and livers. These applications extend across various medical fields, from orthopedics to dermatology and cardiology, underscoring the market's versatility and potential for growth..

Key Market Drivers

Rising Prevalence of Chronic Diseases and Injuries

The rising prevalence of chronic diseases and injuries is a pivotal driver behind the burgeoning Global Tissue Engineering Market. Chronic illnesses, such as cardiovascular diseases, diabetes, and orthopedic disorders, are becoming increasingly common worldwide due to factors like sedentary lifestyles, dietary habits, and an aging population. These conditions often lead to organ or tissue damage that necessitates advanced medical interventions. Traditional treatment approaches, such as organ transplantation, face significant limitations, including donor shortages and compatibility issues. Tissue engineering emerges as a transformative solution to this growing healthcare challenge.

Tissue engineering's ability to create custom-made tissues and organs tailored to individual patient needs is revolutionizing the treatment landscape. Researchers and medical professionals can leverage this technology to develop functional replacements for damaged tissues, offering patients new hope for improved quality of life. This approach holds particular promise in addressing the long-standing organ transplant waiting lists, as it reduces dependency on donor organs and mitigates the risk of rejection.

Additionally, the tissue engineering market is gaining traction in addressing injuries resulting from accidents and trauma, including spinal cord injuries and severe burns.

These types of injuries can have debilitating consequences, often leading to permanent disabilities. Tissue engineering offers the potential to repair and regenerate damaged tissues, potentially restoring lost functions and providing a lifeline to those affected.

As the burden of chronic diseases and injuries continues to rise globally, so does the demand for innovative solutions like tissue engineering. Patients and healthcare providers are increasingly turning to regenerative medicine approaches to treat and manage these conditions. This growing demand not only fuels market expansion but also drives research and development efforts, leading to continuous advancements in tissue engineering technologies. In essence, the rising prevalence of chronic diseases and injuries serves as a catalyst, propelling the global tissue engineering market into a promising future where the boundaries of medical science are continually pushed to deliver hope and healing to those in need.

Aging Population

The aging population represents a significant driver behind the rapid growth of the Global Tissue Engineering Market. Across the world, demographic shifts are causing a substantial increase in the elderly population. With this aging demographic comes a higher incidence of age-related health issues and degenerative diseases. As individuals age, their risk of developing conditions such as cardiovascular diseases, neurodegenerative disorders, and orthopedic ailments significantly increases. These conditions often necessitate medical interventions that go beyond conventional treatments, creating a pressing need for innovative solutions like tissue engineering.

Tissue engineering is uniquely positioned to address the healthcare challenges posed by an aging population. It offers the potential to create personalized and patient-specific tissues and organs that can replace or repair damaged ones. This approach aligns seamlessly with the growing trend of personalized medicine, where treatments are tailored to an individual's unique genetic and physiological profile. By harnessing a patient's own cells to engineer tissues, tissue engineering minimizes the risk of rejection and enhances treatment efficacy, which is especially crucial for elderly patients with compromised immune systems.

Moreover, tissue engineering caters to the specific healthcare needs of the elderly population. It can be used to develop solutions for age-related conditions like degenerative joint diseases, osteoporosis-related fractures, and age-related macular degeneration. These applications improve the quality of life for elderly individuals, promoting greater independence and well-being during their later years.

As the global population continues to age, the demand for tissue engineering solutions is poised to rise even further. Governments, healthcare providers, and patients are increasingly recognizing the potential of regenerative medicine and tissue engineering to address the unique healthcare needs of the elderly. This recognition is driving investment in research and development, facilitating regulatory support, and fostering collaborations between academic institutions and industry.

Technological Advancements

Technological advancements are playing a pivotal role in propelling the Global Tissue Engineering Market to new heights. This dynamic field, at the intersection of biology, engineering, and medicine, is experiencing transformative innovations that are reshaping the landscape of regenerative medicine. These advancements are opening up unprecedented possibilities and expanding the scope of tissue engineering applications.

One of the most significant technological breakthroughs driving the tissue engineering market is the evolution of biotechnology. Researchers are now equipped with a deeper understanding of cellular biology and molecular processes, allowing them to manipulate and engineer cells with greater precision. The integration of stem cell research, a field that has seen remarkable progress, has unlocked the potential to create a wide range of cell types for tissue regeneration. Induced pluripotent stem cells (iPSCs), for example, can be reprogrammed into various cell lineages, making them a valuable resource in tissue engineering endeavors.

Furthermore, the advent of gene editing techniques, particularly CRISPR-Cas9, has revolutionized tissue engineering. This powerful tool enables scientists to modify the genetic makeup of cells with incredible precision. By editing genes, researchers can enhance the safety and functionality of engineered tissues, reducing the risk of rejection and improving their performance once transplanted.

In parallel, advances in biomaterials have expanded the toolkit of tissue engineers. The development of biocompatible materials that mimic the properties of natural tissues has allowed for the creation of more realistic and functional tissue constructs. 3D printing technologies have also made a substantial impact on tissue engineering. With 3D printing, it is now possible to create intricate and patient-specific tissue scaffolds layer by layer, offering unprecedented control over the structure and composition of engineered tissues. This technology enables the customization of tissue constructs to

match individual patient needs, improving the chances of successful transplantation..

Key Market Challenges

Complex Regulatory Frameworks

Complex regulatory frameworks represent a substantial hurdle hindering the growth and development of the Global Tissue Engineering Market. While regulations are essential to ensure the safety and efficacy of medical products, the intricate and evolving nature of tissue engineering has created unique challenges for both industry players and regulatory authorities. One of the primary challenges lies in the classification and oversight of tissue-engineered products. Depending on their intended use and composition, these products can fall under various regulatory categories, including medical devices, biologics, or combination products. This ambiguity often necessitates engagement with multiple regulatory agencies, each with its own set of requirements, making the regulatory process cumbersome and time-consuming.

The stringent and lengthy approval processes for tissue-engineered products are another significant challenge. Regulatory agencies, such as the FDA (Food and Drug Administration) in the United States and the EMA (European Medicines Agency) in Europe, require extensive preclinical and clinical data to demonstrate safety and efficacy. This rigorous evaluation is critical to protecting patient safety, but it can significantly delay market entry and increase development costs.

Furthermore, the pace of regulatory adaptation often lags behind the rapid advances in tissue engineering. As the field continuously evolves with new techniques and technologies, regulators must keep up to ensure that their policies remain relevant and effective. This lag can create uncertainty for companies investing in tissue engineering research and development, as they may not be certain of the regulatory requirements they will face in the future.

Long and Costly Development Timelines

Long and costly development timelines represent a formidable challenge hindering the progress of the Global Tissue Engineering Market. While tissue engineering holds immense potential in revolutionizing healthcare, the protracted and resource-intensive journey from initial research to market-ready products can deter investors and slow down the translation of promising concepts into practical applications.

The development process for tissue-engineered products is characterized by several phases, including preclinical studies and extensive clinical trials. Preclinical research involves laboratory testing and animal studies to assess the safety and efficacy of tissue-engineered constructs. These studies, although essential for establishing a product's viability, can consume years of research efforts and significant financial resources.

Clinical trials, a critical step in the development process, are particularly time-consuming and expensive. These trials are typically conducted in multiple phases, with each phase requiring meticulous planning, execution, and data analysis. Phase I trials primarily focus on safety, while Phase II trials delve into efficacy and dosing. Phase III trials, often involving large patient populations, provide further insights into the product's effectiveness and safety profile.

The lengthy duration of clinical trials can be attributed to several factors, including patient recruitment challenges, regulatory requirements, and the need for long-term follow-up to assess the durability of tissue-engineered products. The costs associated with these trials, encompassing patient recruitment, monitoring, data analysis, and compliance with regulatory standards, can be exorbitant, running into millions or even billions of dollars. Investors and companies involved in tissue engineering projects are often faced with the prospect of long-term financial commitments without immediate returns. This risk can discourage investment in the field, particularly when compared to opportunities with shorter development timelines.

Key Market Trends

Diverse Range of Applications

The Global Tissue Engineering Market is experiencing robust growth, thanks in large part to its diverse range of applications across various medical fields. Tissue engineering has transcended its initial purpose of repairing and replacing damaged tissues, expanding its potential to address a wide spectrum of healthcare challenges. This versatility is one of the key drivers propelling the market forward. One of the most prominent applications of tissue engineering lies in orthopedics and musculoskeletal medicine. Patients suffering from bone fractures, cartilage defects, and joint injuries are benefiting from tissue-engineered solutions that promote the regeneration of these critical structures. Advanced biomaterials and scaffold designs are enabling the creation of custom-made bone grafts and cartilage implants that seamlessly integrate with the patient's own tissues, reducing pain and improving mobility.

Dermatology is another area where tissue engineering has made substantial inroads. Chronic wounds, burns, and skin defects often present complex clinical scenarios. Tissue-engineered skin substitutes offer an effective and cosmetically pleasing solution. These engineered skin grafts, composed of layers that mimic natural skin, aid in wound closure and promote tissue regeneration, ultimately enhancing the healing process and reducing scarring.

Cardiology represents yet another promising frontier for tissue engineering. Heart disease remains a leading cause of mortality worldwide, and tissue-engineered heart valves and cardiac patches hold great potential in addressing this issue. These engineered constructs can replace or repair damaged heart tissue, improving cardiac function and the overall quality of life for patients.

Beyond these areas, tissue engineering is also making significant contributions to fields like ophthalmology, neurology, and urology. Tissue-engineered corneas are being developed to address vision impairments, while neural tissue engineering aims to repair spinal cord injuries and treat neurodegenerative disorders. In urology, tissue-engineered bladders and urethras are being explored to help patients with urinary tract conditions.

Personalized Medicine

Personalized medicine is emerging as a powerful driver behind the growth of the Global Tissue Engineering Market. This innovative approach to healthcare, which tailors medical treatments to the unique genetic and physiological characteristics of individual patients, aligns seamlessly with the capabilities of tissue engineering. As a result, personalized medicine is playing a pivotal role in propelling the tissue engineering market forward.

Tissue engineering, at its core, is about creating customized tissues and organs. This aligns perfectly with the principles of personalized medicine, where treatments are tailored to the specific needs of each patient. One of the key advantages of personalized tissue engineering is the ability to use a patient's own cells to create tissues and organs, minimizing the risk of rejection. By utilizing the patient's own biological materials, tissue-engineered products can closely match the patient's genetic profile, ensuring compatibility and enhancing treatment efficacy.

Personalized medicine is particularly relevant in the context of tissue engineering for organ transplantation. The shortage of donor organs is a global healthcare challenge, leading to long waiting lists and limited treatment options for patients in need. Tissue

engineering offers a solution by enabling the creation of patient-specific organs, reducing the dependency on donor organs and the risk of rejection. This not only addresses the critical issue of organ scarcity but also improves patient outcomes and quality of life.

Furthermore, personalized tissue engineering is advancing the field of regenerative medicine. It allows for the development of tailored tissue constructs for patients with specific medical conditions or injuries. For example, a patient in need of a knee cartilage replacement can receive a tissue-engineered graft that matches their unique anatomy and biomechanics, offering a more effective and durable solution than generic off-the-shelf alternatives.

As technology continues to advance, tissue engineering is becoming increasingly sophisticated in its ability to create personalized solutions. Advances in stem cell research, gene editing techniques like CRISPR-Cas9, and the development of biocompatible materials are enhancing the precision and effectiveness of personalized tissue engineering treatments.

Segmental Insights

Material Type Insights

Based on the Material Type, the Biologically Derived Materials emerged as the dominant segment in the global market for Global Tissue Engineering Market in 2022. This is due to the exceptional versatility and biocompatibility of biologically derived materials, making them the dominant segment in the Global Tissue Engineering Market in 2022. These materials, often sourced from natural origins or decellularized tissues, closely mimic the body's own extracellular matrix, creating an ideal microenvironment for cell growth, proliferation, and tissue regeneration. Their biocompatibility minimizes the risk of adverse reactions and immune responses, making them highly suitable for use in medical applications.

End User Insights

Based on the End User, the Hospitals segment emerged as the dominant player in the global market for Global Tissue Engineering Market in 2022. Hospitals are at the forefront of patient care and treatment. Tissue engineering products, such as tissue-engineered skin for burn victims, bone grafts for orthopedic patients, or tissue-engineered heart valves for cardiac patients, are commonly used in hospital settings to

provide advanced medical solutions to patients with various medical conditions.

Hospitals house specialized departments and surgical units where tissue engineering products are frequently employed. Departments such as orthopedics, plastic surgery, cardiovascular surgery, and dermatology commonly use tissue-engineered products to improve patient outcomes.

Regional Insights

North America emerged as the dominant player in the global Tissue Engineering Market in 2022, holding the largest market share. North America boasts a highly developed healthcare infrastructure, comprising state-of-the-art hospitals, research centers, and academic institutions. This advanced infrastructure facilitates the adoption of tissue engineering technologies and their integration into clinical practice.

The region is a hub for cutting-edge research and development in the field of tissue engineering. Leading universities, research institutes, and biotechnology companies conduct extensive research, driving innovation and the development of new tissue-engineered products and therapies.

Key Market Players

Zimmer Biomet Holdings Inc.

Stryker Corporation Holdings

3D BioFibR Inc.

Integra LifeSciences Corporation

CollPlant Biotechnologies Ltd.

AbbVie (Allergan Aesthetics)

Becton, Dickinson and Company

Athersys, Inc.

BioTissue

Japan Tissue Engineering Co., Ltd

Report Scope:

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

Global Tissue Engineering Market, By Material Type:

Synthetic Materials

Biologically Derived Materials

Others

Global Tissue Engineering Market, By Application

Orthopedics

Musculoskeletal & Spine

Neurology

Cardiology

Skin & Integumentary

Others

Global Tissue Engineering Market, By End-user

Hospitals

Cancer Research Centers

Academic and Research Institutes

Others

Global Tissue Engineering Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Tissue Engineering Market.

Available Customizations:

Global Tissue Engineering 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).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. GLOBAL TISSUE ENGINEERING MARKET OUTLOOK

- 4.1. Market Size & Forecast
 - 4.1.1. By Value
- 4.2. Market Share & Forecast
 - 4.2.1. By Material Type (Synthetic Materials, Biologically Derived Materials, Others)
 - 4.2.2. By Application (Orthopedics, Musculoskeletal & Spine, Neurology, Cardiology, Skin & Integumentary, Others)
 - 4.2.3. By End User (Hospitals, Cancer Research Centers, Academic and Research Institutes, Others)
 - 4.2.4. By Region

4.2.5. By Company (2022)

4.3. Market Map

4.3.1. By Material Type

4.3.2. By Application

4.3.3. By End User

4.3.4. By Region

5. ASIA PACIFIC TISSUE ENGINEERING MARKET OUTLOOK

5.1. Market Size & Forecast

5.1.1. By Value

5.2. Market Share & Forecast

5.2.1. By Material Type

5.2.2. By Application

5.2.3. By End User

5.2.4. By Country

5.3. Asia Pacific: Country Analysis

5.3.1. China Tissue Engineering Market Outlook

5.3.1.1. Market Size & Forecast

5.3.1.1.1. By Value

5.3.1.2. Market Share & Forecast

5.3.1.2.1. By Material Type

5.3.1.2.2. By Application

5.3.1.2.3. By End User

5.3.2. India Tissue Engineering Market Outlook

5.3.2.1. Market Size & Forecast

5.3.2.1.1. By Value

5.3.2.2. Market Share & Forecast

5.3.2.2.1. By Material Type

5.3.2.2.2. By Application

5.3.2.2.3. By End User

5.3.3. Australia Tissue Engineering Market Outlook

5.3.3.1. Market Size & Forecast

5.3.3.1.1. By Value

5.3.3.2. Market Share & Forecast

5.3.3.2.1. By Material Type

5.3.3.2.2. By Application

5.3.3.2.3. By End User

5.3.4. Japan Tissue Engineering Market Outlook

- 5.3.4.1. Market Size & Forecast
 - 5.3.4.1.1. By Value
- 5.3.4.2. Market Share & Forecast
 - 5.3.4.2.1. By Material Type
 - 5.3.4.2.2. By Application
 - 5.3.4.2.3. By End User
- 5.3.5. South Korea Tissue Engineering Market Outlook
 - 5.3.5.1. Market Size & Forecast
 - 5.3.5.1.1. By Value
 - 5.3.5.2. Market Share & Forecast
 - 5.3.5.2.1. By Material Type
 - 5.3.5.2.2. By Application
 - 5.3.5.2.3. By End User

6. EUROPE TISSUE ENGINEERING MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Material Type
 - 6.2.2. By Application
 - 6.2.3. By End User
 - 6.2.4. By Country
- 6.3. Europe: Country Analysis
 - 6.3.1. France Tissue Engineering Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Material Type
 - 6.3.1.2.2. By Application
 - 6.3.1.2.3. By End User
 - 6.3.2. Germany Tissue Engineering Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Material Type
 - 6.3.2.2.2. By Application
 - 6.3.2.2.3. By End User
 - 6.3.3. Spain Tissue Engineering Market Outlook

- 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
- 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Material Type
 - 6.3.3.2.2. By Application
 - 6.3.3.2.3. By End User
- 6.3.4. Italy Tissue Engineering Market Outlook
 - 6.3.4.1. Market Size & Forecast
 - 6.3.4.1.1. By Value
 - 6.3.4.2. Market Share & Forecast
 - 6.3.4.2.1. By Material Type
 - 6.3.4.2.2. By Application
 - 6.3.4.2.3. By End User
- 6.3.5. United Kingdom Tissue Engineering Market Outlook
 - 6.3.5.1. Market Size & Forecast
 - 6.3.5.1.1. By Value
 - 6.3.5.2. Market Share & Forecast
 - 6.3.5.2.1. By Material Type
 - 6.3.5.2.2. By Application
 - 6.3.5.2.3. By End User

7. NORTH AMERICA TISSUE ENGINEERING MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Material Type
 - 7.2.2. By Application
 - 7.2.3. By End User
 - 7.2.4. By Country
- 7.3. North America: Country Analysis
 - 7.3.1. United States Tissue Engineering Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Material Type
 - 7.3.1.2.2. By Application
 - 7.3.1.2.3. By End User
 - 7.3.2. Mexico Tissue Engineering Market Outlook

- 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
- 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Material Type
 - 7.3.2.2.2. By Application
 - 7.3.2.2.3. By End User
- 7.3.3. Canada Tissue Engineering Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Material Type
 - 7.3.3.2.2. By Application
 - 7.3.3.2.3. By End User

8. SOUTH AMERICA TISSUE ENGINEERING MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Material Type
 - 8.2.2. By Application
 - 8.2.3. By End User
 - 8.2.4. By Country
- 8.3. South America: Country Analysis
 - 8.3.1. Brazil Tissue Engineering Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Material Type
 - 8.3.1.2.2. By Application
 - 8.3.1.2.3. By End User
 - 8.3.2. Argentina Tissue Engineering Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Material Type
 - 8.3.2.2.2. By Application
 - 8.3.2.2.3. By End User
 - 8.3.3. Colombia Tissue Engineering Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Material Type

8.3.3.2.2. By Application

8.3.3.2.3. By End User

9. MIDDLE EAST AND AFRICA TISSUE ENGINEERING MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Material Type

9.2.2. By Application

9.2.3. By End User

9.2.4. By Country

9.3. MEA: Country Analysis

9.3.1. South Africa Tissue Engineering Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Material Type

9.3.1.2.2. By Application

9.3.1.2.3. By End User

9.3.2. Saudi Arabia Tissue Engineering Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Material Type

9.3.2.2.2. By Application

9.3.2.2.3. By End User

9.3.3. UAE Tissue Engineering Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Material Type

9.3.3.2.2. By Application

9.3.3.2.3. By End User

9.3.4. Egypt Tissue Engineering Market Outlook

9.3.4.1. Market Size & Forecast

9.3.4.1.1. By Value

9.3.4.2. Market Share & Forecast

9.3.4.2.1. By Material Type

9.3.4.2.2. By Application

9.3.4.2.3. By End User

10. MARKET DYNAMICS

10.1. Drivers

10.2. Challenges

11. MARKET TRENDS & DEVELOPMENTS

11.1. Recent Developments

11.2. Product Launches

11.3. Mergers & Acquisitions

12. GLOBAL TISSUE ENGINEERING MARKET: SWOT ANALYSIS

13. PORTER'S FIVE FORCES ANALYSIS

13.1. Competition in the Industry

13.2. Potential of New Entrants

13.3. Power of Suppliers

13.4. Power of Customers

13.5. Threat of Substitute Product

14. COMPETITIVE LANDSCAPE

14.1. Zimmer Biomet Holdings Inc.

14.1.1. Business Overview

14.1.2. Company Snapshot

14.1.3. Products & Services

14.1.4. Current Capacity Analysis

14.1.5. Financials (In case of listed)

14.1.6. Recent Developments

14.1.7. SWOT Analysis

- 14.2. Stryker Corporation Holdings
- 14.3. 3D BioFibR Inc.
- 14.4. Integra LifeSciences Corporation
- 14.5. CollPlant Biotechnologies Ltd.
- 14.6. AbbVie (Allergan Aesthetics)
- 14.7. Becton, Dickinson and Company
- 14.8. Athersys, Inc.
- 14.9. BioTissue
- 14.10. Japan Tissue Engineering Co., Ltd

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER

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