External Fixation System/External Fixator Devices - Market Insights, Competitive Landscape and Market Forecast-2027

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Report description:

External Fixation System/External Fixator Devices Market By Product Type (Unilateral, Circular, Hybrid, And Others), By Application (Upper Extremity, Lower Extremity, And Others), By Manufacturing Technique (Conventionally-Made And Computer-Aided) By End User (Hospitals, Specialty Clinics, And Others), by geography is expected to grow at a steady CAGR forecast till 2027 owing to rising incidents of trauma cases and increasing prevalence degenerative bone disorders.

Global external fixators market was valued at USD 910.63 million in 2021, growing at a CAGR of 5.62% during the forecast period from 2022 to 2027 to reach USD 1,264.22 million by 2027. The external fixators market is witnessing a positive market growth owing to the factors such as rising incidents of road accidents, growing geriatric population, increasing prevalence of degenerative bone disorders such as osteoporosis and osteoarthritis, and increasing product development activities with latest innovation with respect to external fixators among others.

External Fixation System/External Fixator Devices Market Dynamics:
One of the main drivers of the external fixators market is the rising number of road accidents resulting in limb fractures. According to the World Health Organization factsheet (2021) on road traffic injuries, road traffic injuries are the leading cause of fatality in children and young adults in the age group of 5-29 years. The same factsheet further mentioned that near about 20-50 million people suffer from non-fatal injuries in road accidents. It has been established that in trauma cases such as car accidents, fractures of fibula/tibia, pelvis, skull, and clavicle are some of the common modalities that are reported which are majorly fixed by

the application of external fixation devices. Therefore, the demand for external fixators is set to witness an increase owing to the increasing incidents of road accidents and trauma cases, thereby positively impacting the global external fixators market growth during the forecast period.

Another key factor responsible for the growth of the external fixation devices market is the rising global population of the elderly. The elderly population is susceptible to numerous bone-related disorders and degenerative bone diseases. According to a report titled Ageing and Health by the World Health Organization, in 2020, the number of people over the age of 60 years and older were estimated to outnumber children younger than 5 years. The source further estimated that by 2030, the global elderly population to reach to 1.4 billion. The geriatric population is susceptible to various degenerative bone disorders as compared to people belonging to the younger age group. Some of the common bone-related diseases are osteoarthritis, osteoporosis, scoliosis among others. These disorders lead to the increased probabilities of bone weakening and bone fractures which are treated with the help of external fixation system in order to provide structural integrity to limbs and aid in fracture healing.

Along with the factors mentioned above, technological advancements such as computer-assisted manufacturing of external fixators in the field of manufacturing of external fixator systems is also expected to aid in the growth of the external fixators market.

However, high maintenance and compliance associated with external fixators and high chances of infection at attachment sites may be certain limiting factors of the external fixators market growth.

Along with the above-mentioned factors, the external fixator devices market witnessed a period of temporary hindrance in market growth due to the imposing of the lockdown restrictions as necessary measures to contain the COVID-19 spread. One of the major steps during this was the suspension of numerous elective procedures and outpatient visits which reduced the demand for external fixation systems in the market as a large number of surgeries across different medical specialties were suspended during the initial lockdown period, thereby limiting the market growth for a short time. Moreover, the lockdowns restricted the outdoor recreational activities along with movement on roads thereby resulting in reduced incidents of road accidents in general compare to previous years and also resulted in the reduction of cases associated with orthopedic injuries during the lockdown period. Nevertheless, the market for external fixators is on the period of recovery with the resumption of activities across various domains including healthcare services owing to the approval and administration of numerous COVID-19 vaccines across the globe, thereby presenting a positive future outlook for the external fixation systems market during the forecast period.

External Fixation System/External Fixator Devices Market Segment Analysis:
External Fixation System/External Fixator Devices Market by Product Type (Unilateral, Circular, Hybrid, and Others), by Application (Upper Extremity, Lower Extremity, and Others), by Manufacturing Technique (Conventionally-Made and Computer-Aided) by End User (Hospitals, Specialty Clinics, and Others), and by Geography (North America, Europe, Asia-Pacific, and Rest of the World)

In the manufacturing technique segment of the external fixators market, the computer-assisted eternal fixators are estimated to

register a faster growth in CAGR in the external fixators market during the forecast period. This can be attributed to the specific features associated with these devices. The design of 3D computer-assisted external fixators is majorly focused on a hexapod design with six-numbered rings with different colors for six support shafts, as well as special fixation holes for the support shaft. Some octapod designs are also being developed and tested. The employment of computer software in product design helps in customizing the device specific to any deformity and pre-built accordingly. It has also been observed that computer-assisted external fixation devices are extremely helpful in the treatment of open fractures. Therefore, considering the advantages associated with computer-assisted external fixators, this product category is expected to witness a faster CAGR growth eventually contributing the overall growth of the global external fixators devices market during the forecast period.

North America is expected to dominate the Overall External Fixation System/External Fixator Devices Market:
Among all the regions, North America is expected to account for the largest share in the global external fixation systems market. This can be ascribed to the high prevalence of osteoarthritis and osteoporosis and other bone diseases, rising population of the elderly, increasing number of road accidents and trauma cases among other factors in the region. Furthermore, high disposable income, sophisticated healthcare infrastructure, and increased awareness regarding new treatments are also expected to aid in the external fixators market growth in this region.

One of the key factors supporting the growth of the North America external fixator devices market in is the high prevalence of osteoporosis in North American countries such as the United States. As per the data provided by the Arthritis Foundation and the Centers for Disease Control and Prevention, United States, it was estimated that 32.5 million adults in the country had osteoarthritis in 2020. It has been established that osteoarthritis increases the risk of falls in patients which may result in increased incidences of bone fractures in such patients thereby contributing in the demand for external fixators in the country, thereby driving the growth of the United States external fixation systems market.

In addition to the factor mentioned above, the data provided by the Organization for Economic Co-operation and Development, in 2018, there were approximately 2,710,000 cases of road accident-related injuries in the country. The data further provided provisional data for Canada in which reported about 152,847 number of road accident-related cases in the country in 2018. This further indicated the growing need for external fixator devices in the region as they are employed in the correction of bone deformities due to severe blow experienced during high-impact injuries.

Furthermore, the increased emphasis on product development activities and high interest of device manufacturers in accessing local markets further aid in the growth of the regional markets for external fixators. Therefore, the interplay of various factors such as the presence of large patient population, encouraging reimbursement policies as well as new product launches such as the Saturn? External Fixation System by Centric Medical in the United States are expected to boost the North America external fixators market during the forecast period.

External Fixation System/External Fixator Devices Market Key Players:
Some of the key market players operating in the external fixators market includes DePuy Synthes (Medical Devices Business Services, Inc), Orthofix Medical Inc, Stryker Corporation, Smith & Nephew, Acumed, Zimmer Biomet, Baumer S.A., Globus Medical, Orthosynthesis (Ortosintese), Mikai S.p.A, SOFEMED, Advanced Orthopaedic Solutions., Fixus B.V., Tasarimmed T?bbi Mamuller San. Tic A.S., Zimed Medikal, NUTEK ORTHOPEDICS, Double Medical Technology Inc., Auxein Medical, Wishbone Medical Inc, Aike (Shanghai) Medical Equipment Co., Ltd., Orthospin and others.

Recent Developmental Activities in External Fixation System/External Fixator Devices Market:

? In January 2021, Aike (Shanghai) Medical Equipment Co., Ltd received the product approval from the US Food and Drug Administration for their Bfix?Orthopedic External Fixator Systems.
? In January 2021, Orthospin received the US FDA approval for their robotic external fixation system.
? In October 2020, Wishbone Medical Inc received the product approval from the US FDA for their pediatric external fixation system.
Key Takeaways from the External Fixation System/External Fixator Devices Market Report Study
? Market size analysis for current external fixators market size (2021), and market forecast for 5 years (2022-2027)
? The effect of the COVID-19 pandemic on this market is significant. To capture and analyze suitable indicators, our experts are closely watching the external fixators market.
? Top key product/services/technology developments, merger, acquisition, partnership, joint venture happened for last 3 years
? Key companies dominating the global external fixators market.
? Various opportunities available for the other competitor in the external fixators market space.
? What are the top performing segments in 2021? How these segments will perform in 2027.
? Which is the top-performing regions and countries in the current external fixators market scenario?
? Which are the regions and countries where companies should have concentrated on opportunities for external fixators market growth in the coming future?
Target Audience who can be benefited from this External Fixation System/External Fixator Devices Market Report Study
? External Fixation Systems/External Fixator Devices products providers
? Research organizations and consulting companies
? External Fixation Systems/External Fixator Devices-related organizations, associations, forums, and other alliances
? Government and corporate offices
? Start-up companies, venture capitalists, and private equity firms
? Distributors and Traders dealing in external fixators
? Various End-users who want to know more about the external fixators market and latest technological developments in the external fixators market.
Frequently Asked Questions for External Fixation System/External Fixator Devices Market:
1. What is an External Fixator Device?

An external fixator device is screwed into fractured bones to exit the skin and are attached to a stabilizing structure outside the body. External fixation is a well-established technique for stabilizing a variety of fractures and also helps in bone lengthening.

2. What is the market for Global External Fixation Systems/External Fixator Devices?

Global external fixators market was valued at USD 910.63 million in 2021, growing at a CAGR of 5.62% during the forecast period from 2022 to 2027 to reach USD 1,264.22 million by 2027.

3. What are the drivers for Global External Fixation Systems/External Fixator Devices Market?

The external fixators market is witnessing a positive market growth owing to the factors such as rising incidents of road accidents, growing geriatric population, increasing prevalence of osteoporosis and osteoarthritis, and increasing product development activities with latest innovation with respect to external fixators among others.

4. Who are the key players operating in Global External Fixation Systems/External Fixator Devices Market?

Some of the key market players operating in the external fixators market includes DePuy Synthes (Medical Devices Business Services, Inc), Orthofix Medical Inc, Stryker Corporation, Smith & Nephew, Acumed, Zimmer Biomet, Baumer S.A., Globus Medical, Orthosynthesis (Ortosintese), Mikai S.p.A, SOFEMED, Advanced Orthopaedic Solutions., Fixus B.V., Tasarimmed T?bbi Mamuller San. Tic A.S., Zimed Medikal, NUTEK ORTHOPEDICS, Double Medical Technology Inc., Auxein Medical, Wishbone Medical Inc, Aike (Shanghai) Medical Equipment Co., Ltd., Orthospin and others.

5. Which region has the highest share in External Fixation Systems/External Fixator Devices Market?

North America is expected to hold the highest share in the revenue in the External Fixation Systems/External Fixator Devices market during the forecast period. This can be ascribed to the high prevalence of osteoarthritis and osteoporosis and other bone diseases, rising population of the elderly, increasing number of road accidents and trauma cases among other factors in the region. Furthermore, high disposable income, sophisticated healthcare infrastructure, and increased awareness regarding new treatments are also expected to aid in the external fixators market growth in this region.

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