

South & Central America Regenerative Dentistry Market Size and Forecast (2021 - 2031)

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Abstracts

The South & Central America Regenerative Dentistry Market is projected to grow significantly, with an expected market size of approximately US\$ 124.2 million by 2031, up from US\$ 76.3 million in 2024. This growth translates to a compound annual growth rate (CAGR) of 7.3% from 2025 to 2031.

Executive Summary and Market Analysis

The regenerative dentistry market in South & Central America is primarily divided into three segments: Brazil, Argentina, and the Rest of South & Central America. Several factors are driving the demand for regenerative treatments in this region, including the expansion of the dental sector, a rise in medical tourism particularly in Argentina and Brazil, government initiatives supporting dental care, and awareness campaigns promoting good oral health. These elements collectively enhance the demand for advanced regenerative dental treatments.

A notable development in the market occurred in April 2024, when Geistlich announced its acquisition of Bionnovation Biomedical, a medical technology company based in Brazil. This strategic move allowed Geistlich to broaden its regenerative product offerings, making affordable solutions more accessible to clinicians and patients across Latin America and other emerging markets.

Strategic Insights

Market Segmentation Analysis

The South & Central America Regenerative Dentistry Market can be segmented based

on various criteria:

By Type: The market is divided into Natural and Synthetic categories, with Natural products holding the largest market share in 2024.

By Technology: The market includes segments such as Tissue Engineering, Stem Cell Therapy, and Others, where Tissue Engineering is the leading technology in 2024.

By Application: Key applications include Periodontal Regeneration, Endodontic Regeneration, Tooth Reconstruction, Bone Regeneration, and Others, with Periodontal Regeneration dominating the market share in 2024.

By Age Group: The market is segmented into Adult and Pediatric categories, with Adults representing the largest share in 2024.

By End User: The primary end users are Dental Clinics, Hospitals, and Others, with Dental Clinics holding the largest market share in 2024.

Market Outlook

The regenerative dentistry landscape is evolving, particularly with advancements in stem cell therapy, which is revolutionizing how dental professionals approach tooth and tissue regeneration. This is especially relevant for patients suffering from significant dental damage, tooth loss, or periodontal disease.

Innovations in Tooth Regeneration and Pulp Therapy

Pulp therapy, particularly vital pulp therapy (VPT), is a crucial aspect of restorative dentistry aimed at preserving the vitality of affected teeth. Research indicates that VPT techniques are widely taught across European dental schools, with a high success rate reported for contemporary materials used in pulp therapy. For instance, a retrospective study highlighted a 99% success rate using iRoot BP Plus for pulpotomy over a 12-24 month follow-up period. Furthermore, institutions like the Università degli Studi di Milano are exploring the potential of dental pulp stem cells for regenerating pulp tissue, which could lead to more natural solutions for patients, potentially replacing traditional root canals or tooth extractions.

Collaborations and Research Initiatives

In August 2023, a collaboration between researchers in dentistry and engineering at the University of Illinois Chicago led to the development of a thin membrane designed to regrow bone and promote healing. This innovative approach, which incorporates magnesium atoms into collagen membranes, is set to undergo further clinical testing and commercialization. Such collaborations are essential for fostering new therapies and integrating stem cell techniques into mainstream dental practices.

Clinical Implementation of Stem Cell Therapy

Several dental clinics are beginning to implement stem cell therapy into their practices. For example, in March 2025, Aeras Bio and RD Dental Clinic initiated Japan's first clinical study on "Pulp Regeneration Treatment" using allogeneic dental pulp stem cells. These pioneering clinics are at the forefront of offering advanced treatment options for managing tooth and gum health.

Bone and Gum Regeneration

Stem cells are also being utilized to regenerate bone tissue in patients who have experienced bone loss due to aging, disease, or trauma, particularly in relation to dental implants. The use of stem cells for bone regeneration is improving implant success rates, especially for patients with insufficient bone density. Additionally, stem cell therapy shows promise for regenerating gum tissues in cases of severe periodontal disease, enhancing both functionality and aesthetics.

Country Insights

The South & Central America Regenerative Dentistry Market is further segmented by country, with Brazil holding the largest market share in 2024. Brazilian manufacturers are focusing on advertising campaigns and training programs for dentists to enhance awareness and confidence in regenerative biomaterials. The emphasis on aesthetics in Brazil has led to a strong acceptance of dental implants. Notably, in June 2023, SUN MEDICAL CO., LTD., and Mitsui Chemicals, Inc. announced the launch of SUN MEDICAL's Super-Bond dental adhesive in Brazil.

Research initiatives in Brazil are also thriving, with significant funding directed towards the development of experimental materials for dental applications. For instance, researchers at Sao Paulo State University received a US\$ 75,000 grant to advance their

work in dental biomaterials, further fueling the demand for regenerative dental solutions.

Key Players

The market features several key players, including Evonik Industries AG, Dentsply Sirona Inc, Envista Holdings Corporation, ZimVie Inc, BioHorizons Inc, Geistlich Pharma AG, Nobel Biocare Services AG, UBGEN, B&B Dental Implant Company, and Botiss Biomaterials GmbH. These companies are actively pursuing strategies such as expansion, product innovation, and mergers and acquisitions to enhance their market presence and offer innovative products to consumers.

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