

# **Europe Regenerative Dentistry Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Product Type (Natural Biomaterials and Synthetic Biomaterials), Technology (Tissue Engineering, Stem Cell Therapy, and Others), Application (Periodontal Regeneration, Endodontic Regeneration, Tooth Reconstruction, Bone Regeneration, and Others), Age Group (Adult and Pediatric), End User (Hospitals, Dental Clinics, and Others), and Region**

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## **Abstracts**

The Europe Regenerative Dentistry market was valued at US\$ 836.50 million in 2024 and is projected to reach US\$ 1,269.60 million by 2031; it is expected to register a CAGR of 6.3% during 2025–2031. The Europe Regenerative Dentistry market forecast presented in this report can help stakeholders in this marketplace plan their growth strategies. The increasing prevalence of dental disorders in aging population and increasing demand for cosmetic dentistry are the key factors propelling the Europe Regenerative Dentistry Market growth.

### **Increased Adoption of Tissue Regeneration**

Stem cell therapy transforms how dental professionals approach tooth and tissue regeneration, especially for patients with substantial dental damage, tooth loss, or periodontal disease. Below are a few approaches that are likely to bring in new trends in the market:

## Tooth Regeneration and Pulp Therapy:

Pulp therapy, particularly vital pulp therapy (VPT), is a critical component of restorative dentistry aimed at preserving the vitality of affected teeth. In Europe, the teaching and application of pulp therapy techniques vary: As per the PubMed, A survey of European dental schools revealed that 92.9% taught the use of ferric sulphate for vital pulpotomy in primary molars, indicating a preference for this material in educational settings. Success rates for VPT in mature permanent teeth have been notable. As per the Springer Nature Limited 2025, retrospective study reported a 99% success rate using iRoot BP Plus for pulpotomy over a 12–24-month follow-up period, highlighting the effectiveness of contemporary materials in pulp therapy. Researchers are exploring stem cell therapies to regenerate damaged or lost tooth pulp, which is crucial for maintaining tooth vitality. In Italy, institutions like the Università degli Studi di Milano are actively investigating the potential of dental pulp stem cells for regenerating pulp tissue and even re-growing functional teeth. This innovation could replace traditional methods such as root canals or tooth extractions, providing more natural solutions for patients.

## Collaboration with Research Institutions:

As per the University College London 2025, Discoveries Centre for Regenerative and Precision Medicine initiative is a collaboration between University College London (UCL) and a consortium of Portuguese universities, including the University of Minho. Supported by a ?15 million EU Horizon 2020 grant, the Centre focuses on accelerating clinical applications and fostering innovation in regenerative and precision medicine, with headquarters in Portugal and a supporting campus at UCL. Politecnico di Milano is one of the universities partnering with private dental companies to conduct clinical trials and further explore the applications of stem cells in tooth and tissue regeneration. This collaborative environment fosters the development of new therapies and encourages the integration of stem cell techniques into mainstream dental practice.

## Clinical Implementation:

Several dental clinics in Italy have begun incorporating stem cell therapy into their practices. For instance, the Clinica Odontoiatrica Guglielmo Marconi in Bologna offers regenerative treatments that utilize stem cells as part of their approach to periodontal therapy. These clinics are at the forefront of implementing innovative treatments,

providing patients with advanced options for managing their tooth and gum health.

#### Bone and Gum Regeneration:

Stem cells are also used to regenerate bone tissue in patients who have experienced bone loss due to aging, disease, or trauma, particularly dental implants. Utilizing stem cells for bone regeneration helps improve implant success rates, especially for patients with insufficient bone density. Clinics in Italy, including those in Milan and Rome, are incorporating stem cell-based bone grafts to promote the regrowth of bone around implants. Additionally, stem cell therapy shows promise for gum regeneration. In cases of severe periodontal disease, stem cells can be used to regenerate gum tissues, enhancing both the functionality and aesthetic appearance of the gums.

#### Factor Hampering Europe Contract Research Organization Market

The high cost of dental regeneration treatments is a significant barrier to the growth of the Italy regenerative dentistry market. These advanced procedures, which include stem cell therapies, tissue engineering, and techniques for tooth regeneration, tend to be expensive due to the sophisticated technology and expertise they require. As a result, many patients are discouraged by the steep costs, limiting the market's potential for expansion. The cost of dental regenerative treatments in Europe varies based on the specific procedure and the country where it's performed. Here's a breakdown of average costs:

The average cost of a dental implant in Italy ranges from US\$ 1,100 to US\$ 2,700, depending on the clinic and location. Regenerative treatments, such as bone grafting or stem cell therapy, can drive up expenses, sometimes reaching US\$ 5,500–10,800 per procedure because of the advanced materials and techniques involved. Clinics offering these services, particularly in cities such as Milan and Rome, typically charge premium fees for regenerative dental work.

At the International Health Center in Milan, a dental implant may cost between US\$ 2,200 and US\$ 2,700, while regenerative procedures like stem cell therapy for tooth regeneration can exceed US\$ 8,700 per treatment. Similarly, Studio Dentistico Cristina Santi in Campello sul Clitunno provides regenerative treatments with costs ranging from US\$ 4,800 to US\$ 9,700, depending on the complexity of the procedure.

The price for a single dental implant in Europe typically ranges between ?1,100 and ?2,180, depending on the country. In Hungary, Poland, and the Czech Republic, the cost is approximately ?1,100. In Germany, it's around ?1,700. In the United Kingdom, the average cost is about ?2,180.

Comprehensive procedures like All-on-4 implants, which replace all teeth in a jaw, can range from ?4,000 to ?18,000. The total cost depends on factors such as the number of implants and the materials used.

The cost of PRP therapy varies widely, typically ranging from \$500 to \$2,500 per injection, depending on various factors.

Stem cell therapy costs can vary significantly, ranging from \$5,000 to \$50,000, depending on factors such as the type of stem cells administered, the number of cells, the quality of the cells, the location of the laboratory, and the source of the stem cells.

These costs can be prohibitive for many patients, leading some to seek more affordable treatment options abroad. For instance, dental implants in Turkey can start at ?500, offering significant savings compared to prices in Western Europe. The high expense of these treatments creates several barriers to their widespread adoption. Many patients struggle to afford such procedures, especially without comprehensive insurance coverage. Additionally, dental practitioners may be reluctant to invest in costly regenerative technologies without a clear return on investment, which further restricts the adoption of advanced techniques in many clinics and limits the growth of the regenerative dentistry market in Italy. Thus, while dental regenerative treatments hold great promise, the high costs associated with these procedures remain a significant obstacle to their accessibility and market expansion in Europe.

Based on product type, the Europe regenerative dentistry market is bifurcated into natural biomaterials and synthetic biomaterials. The natural biomaterials segment held a larger share of the Europe regenerative dentistry market in 2024.

By technology, the Europe regenerative dentistry market is segmented into tissue engineering, stem cell therapy, and others. The tissue engineering segment held the largest share of the Europe regenerative dentistry market in 2024.

In terms of application, the Europe regenerative dentistry market is segmented into

periodontal regeneration, endodontic regeneration, tooth reconstruction, bone regeneration, and others. The periodontal regeneration segment held the largest share in the Europe regenerative dentistry market in 2024.

By age group, the market is bifurcated into pediatric and adults. The adult segment held a larger share of the Europe regenerative dentistry market in 2024.

Based on end user, the market is segmented into hospitals, dental clinics, and others. The dental clinics segment held the largest share of the Europe regenerative dentistry market in 2024.

A few of the major primary and secondary sources referred to while preparing the report on the Europe Regenerative Dentistry Market are Geistlich Pharma AG, Evonik Industries AG, BioHorizons Inc, Nobel Biocare Services AG, UBGEN, B&B Dental Implant Company, Botiss Biomaterials GmbH, Envista Holdings Corporation, ZimVie Inc, Dentsply Sirona Inc

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