BIBLIOGRAPHIC INFORMATION SYSTEM

Journal Full Title: Journal of Biomedical Research & Environmental Sciences
Journal NLM Abbreviation: J Biomed Res Environ Sci
Journal Website Link: https://www.jelsciences.com
Journal ISSN: 2766-2276
Category: Multidisciplinary
Subject Areas: Medicine Group, Biology Group, General, Environmental Sciences
Topics Summation: 133
Issue Regularity: Monthly
Review Process: Double Blind
Time to Publication: 21 Days
Indexing catalog: IndexCopernicus ICV 2020: 53.77 | GoogleScholar | View more
Publication fee catalog: Visit here

DOI: 10.37871 (CrossRef)
Plagiarism detection software: iThenticate
Managing entity: USA
Language: English
Research work collecting capability: Worldwide
Organized by: SciRes Literature LLC

IndexCopernicus ICV 2020: 53.77

Manuscript should be submitted in Word Document (.doc or .docx) through

Online Submission

form or can be mailed to support@jelsciences.com

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JOURNAL OF BIOMEDICAL RESEARCH & ENVIRONMENTAL SCIENCES
ISSN: 2766-2276
SUBJECT AREA(S): DENTISTRY
DOI: 10.37871

EDITORIAL

Embracing Technology: The Era of Dental Implants in Oral Health Support and Rehabilitation

Ashish Pandey*

Department of Prosthodontics, Daswani Dental College, Kota, Rajasthan. India

Oral health is a cornerstone of our overall well-being, and the rehabilitation of oral health is an essential facet of modern dentistry. For those who lose teeth due to various reasons like aging, accidents, or diseases, effective solutions to restore oral function are paramount. Traditionally, methods such as dentures and bridges have served this purpose, but we now stand at the threshold of a new era. Dentistry is boldly embracing 21st-century science and technology, and at the forefront of this revolution are dental implants. They are gaining recognition for their remarkable durability, natural appearance, and their capacity to enhance oral function. Consequently, the topic of dental implants is becoming increasingly relevant and compelling in our journal and within the global dental community.

The emergence of dental implants has ushered in a new era in dentistry. They offer a long-term solution that respects the natural anatomy of the oral cavity and, most importantly, significantly enhances the quality of life for patients. What sets dental implants apart from traditional bridges and dentures is the method of integration. They are surgically implanted into the jawbone, effectively taking the place of a missing tooth's root. This feature provides superior anchorage for the replacement tooth and stimulates the jawbone, thus averting the progressive bone loss often associated with tooth loss.

Technological advancements have significantly transformed dental implantology. For example, 3D imaging technology has revolutionized precise and detailed planning before implant surgery. Artificial intelligence-driven software has streamlined the planning process, ensuring accurate implant placement and reducing surgical risks. Navigational technologies, such as computer-guided surgery, have made minimally-invasive procedures a reality, promoting quicker patient recovery. Template technology is another noteworthy innovation, offering a pre-planned guide for precise implant placement. Moreover, artificial technologies have played a pivotal role in refining dental implant materials, improving biocompatibility, and bolstering integration with the jawbone, ensuring the long-term success of these implants.

The aesthetic advantages of dental implants are commendable. They have the unique ability to closely mimic the appearance of natural teeth,

***Corresponding author(s)**

Ashish Pandey, Department of Prosthodontics, Daswani Dental College, Kota, Rajasthan. India

Tel: +91-88-535-82863
Email: ashishpande26@yahoo.co.in

DOI: 10.37871/jbres1815

Submitted: 13 October 2023

Accepted: 19 October 2023

Published: 20 October 2023

MEDICINE GROUP

DENTISTRY

VOLUME: 4 ISSUE: 10 - OCTOBER, 2023

How to cite this article: Pandey A. Embracing Technology: The Era of Dental Implants in Oral Health Support and Rehabilitation. J Biomed Res Environ Sci. 2023 Oct 20; 4(10): 1441-1442. doi: 10.37871/jbres1815, Article ID: JBRES1815, Available at: https://www.jelsciences.com/articles/jbres1815.pdf

enhancing facial aesthetics and boosting recipients' confidence. This cosmetic benefit is especially significant in a society where physical appearance plays a pivotal role in social interactions. With dental implants, patients regain the ability to smile, speak, and eat normally, free from concerns about dentures slipping or the noticeable gaps associated with missing teeth.

Incorporating technology into cosmetic dentistry has played a pivotal role in enhancing the aesthetics of dental implants. For example, Computer-Aided Design and Computer-Aided Manufacturing (CAD/CAM) technology enables precise design and creation of dental implant crowns that blend seamlessly with existing teeth, significantly enhancing the cosmetic appeal of dental implants. Navigational technologies, such as intraoral scanners and digital impressions, have made it possible to create detailed digital models of the patient's mouth, allowing for the design of custom implant solutions that fit perfectly and appear entirely natural. Template technology streamlines the implantation process, offering a precise surgical guide for optimal implant positioning. Furthermore, artificial technologies have led to the development of dental implant materials that closely resemble natural tooth structure, further enhancing the visual appeal of dental implants.

The durability of dental implants stands unquestioned. With proper care and maintenance, implants can last for decades, making them a cost-effective and long-term solution. Furthermore, advancements in artificial intelligence and 3D imaging have significantly improved precision. Artificial intelligence-driven software facilitates meticulous planning, while 3D imaging technology allows for highly accurate implant placement, reducing surgical risks. Navigational technologies, such as computer-guided surgery, not only enhance precision but also enable minimally-invasive procedures. Template technology streamlines the implantation process, ensuring implants are positioned optimally with minimal disruption.

In conclusion, dental implants, with the integration of new technologies, navigational technologies, template technology, and artificial technologies, offer functional benefits while significantly improving aesthetics and confidence for patients. This technological evolution marks a turning point in the field of dentistry, providing patients with a comprehensive and advanced solution for oral health support and rehabilitation. The era of dental implants, with its technological advancements, is upon us, and it is poised to redefine the future of oral health. As we embrace these innovations and explore their potential, we anticipate that the journey with dental implants will continue to inspire meaningful discussions, collaborations, and further advancements in the field. We invite readers to delve deeper into various facets of dental implants, as presented in this edition, providing insights into the latest trends, techniques, and challenges in dental implantology, setting the stage for inspiring discussions and further advancements in the field.

How to cite this article: Pandey A. Embracing Technology: The Era of Dental Implants in Oral Health Support and Rehabilitation. J Biomed Res Environ Sci. 2023 Oct 20; 4(10): 1441-1442. doi: 10.37871/jbres1815, Article ID: JBRES1815, Available at: https://www.jelsciences.com/articles/jbres1815.pdf