

Editorial

ADVANCES IN IMPLANT DENTISTRY

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Implant is becoming a mainstream practice in dentistry. Considerable advances have been made in this field with regard to applications, techniques, and materials used for dental implants.

This communication is intended to provide general practitioners, educators, and dental students with an overview of recent advances in implant dentistry. It covers a review of the history of implant in dentistry, approaches used for ridge preservation, ridge augmentation, guided bone regeneration, methods used for treatment peri-implantitis, and advances in implant dentistry for *edentulous patients*. Below is a brief description of the topics covered in this issue:

1. Historical Perspective on Dental Implant Coatings and Surface Treatment.

This manuscript provides a chronological history of dental implants, the physical, chemical, and biologic properties of dental implant coatings and mechanisms by which they augment the osseointegrative process.

2. Ridge Preservation for Implant Therapy: A Review of the Literature.

The requirement to have implants mimic the natural tooth in both function and esthetics makes the use of ridge preservation an essential element in the treatment planning for implant therapy. This review covers the healing dynamics of the extraction socket, the use of bone grafting materials and barrier membranes, and the evidence based literature supporting ridge preservation techniques.

3. Mechanism of Guided Bone Regeneration: A Review.

Crestal ridge bone resorption is an unavoidable consequence of tooth extraction, which often leads to a significant

reduction in ridge dimensions. Guided bone regeneration is often required to provide adequate support for dental implant. Angiogenesis and ample blood supply plays a critical role in promoting bone regeneration. This article reviews techniques used to promote preservation of alveolar ridge dimensions.

4. Detoxification of Implant Surfaces Affected by Peri-Implant Disease: An Overview of Non-Surgical Methods.

This article provides an overview of non-surgical approaches for detoxification of the surfaces of dental implant and treatment of peri-implant diseases.

5. The Evolution of Dental Materials for Hybrid Prostheses.

This manuscript is a review of the progress in dental implant technologies and materials used for the treatment of *edentulism*.

The authors of this document are educators and practicing dentists; it is our hope that our colleagues and students find this document informative and useful.

CONFLICT OF INTEREST

The author confirms that this article content has no conflicts of interest.

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