ISSN: 2573-0312 Open Access

Biological Complications in Immediate Loading of Implants with Fixed Rehabilitations for Geriatric Edentulous Patients

Minakhi Gallo*

Department of Physiotherapy, University of Salento, 73100 Lecce, Italy

Introduction

The advent of implant dentistry has revolutionized the approach to restoring oral function and aesthetics in edentulous patients, particularly in the geriatric population. Immediate loading of implants with fixed rehabilitations represents a contemporary strategy that offers accelerated treatment timelines and enhanced patient satisfaction. However, as geriatric individuals present a unique set of biological considerations, the application of immediate loading protocols in this demographic demands careful scrutiny. This investigation delves into the intricate landscape of biological complications associated with immediate loading of implants in fixed rehabilitations for geriatric edentulous patients. Recognizing the multifaceted challenges posed by age-related factors, bone quality and systemic health issues is imperative for refining clinical protocols and optimizing outcomes in this vulnerable population [1,2].

Description

Geriatric edentulous patients undergoing immediate loading of implants with fixed rehabilitations navigate a distinctive array of biological challenges that necessitate meticulous attention. The aging process brings about alterations in bone density, vascular supply and healing capacity, influencing the osseointegration dynamics critical to the success of implant treatments [3]. Moreover, the prevalence of comorbidities such as diabetes, osteoporosis and cardiovascular conditions among the elderly further complicates the implant healing milieu. Understanding the interplay between these factors and the implant-host interface is pivotal for mitigating the risk of biological complications. From altered wound healing responses to potential compromises in implant stability, the biological intricacies of immediate loading in geriatric edentulous patients demand a comprehensive approach that integrates gerontology, oral implantology and systemic health management. Additionally, the impact of prosthetic design, occlusal forces and maintenance protocols on the longevity of implant-supported fixed rehabilitations in the geriatric population underscores the need for tailored treatment strategies that account for both biological and prosthetic considerations [4,5].

Conclusion

In conclusion, the landscape of immediate loading of implants with fixed rehabilitations for geriatric edentulous patients is nuanced by a myriad of biological complexities that require careful consideration. As the aging population continues to seek dental implant solutions, an in-depth understanding of the biological factors influencing treatment outcomes is essential for clinicians. Through ongoing research, advancements in implant

technology and the development of evidence-based protocols, the field can evolve to meet the specific needs and challenges posed by geriatric patients. By integrating gerontology, implantology and comprehensive healthcare strategies, clinicians can navigate the biological intricacies associated with immediate loading in the elderly, ensuring not only successful implant integration but also sustained oral health and improved quality of life for this growing demographic.

Acknowledgement

None.

Conflict of Interest

There are no conflicts of interest by author.

References

- Emami, Elham, Raphael Freitas de Souza, Marla Kabawat and Jocelyne S. Feine.
 "The impact of edentulism on oral and general health." Int J Dent 2013 (2013).
- Srinivasan, Murali, Simon Meyer, Andrea Mombelli and Frauke Müller. "Dental implants in the elderly population: A systematic review and meta-analysis." Clin Oral Implants Res 28 (2017): 920-930.
- Schimmel, Martin, Frauke Müller, Valérie Suter and Daniel Buser. "Implants for elderly patients." Periodonto 2000 73 (2017): 228-240.
- Papaspyridakos, Panos, Chun-Jung Chen, Sung-Kiang Chuang and Hans-Peter Weber. "Implant loading protocols for edentulous patients with fixed prostheses: A systematic review and meta-analysis." Int J Oral Maxillofac Implants 29 (2014).
- Velasco-Ortega, Eugenio, Joao Luis Cracel-Lopes, Nuno Matos-Garrido and Alvaro Jiménez-Guerra, et al. "Immediate functional loading with full-arch fixed implantretained rehabilitation in periodontal patients: Clinical study." Int J Environ Res Public Health 19 (2022): 13162.

How to cite this article: Gallo, Minakhi. "Biological Complications in Immediate Loading of Implants with Fixed Rehabilitations for Geriatric Edentulous Patients." *Physiother Rehabil* 8 (2023): 364.

*Address for Correspondence: Minakhi Gallo, Department of Physiotherapy, University of Salento, 73100 Lecce, Italy, E-mail: minagallo@gmail.com

Copyright: © 2023 Gallo M. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Received: 02 November, 2023, Manuscript No. jppr-23-121260; Editor Assigned: 04 November, 2023, PreQC No. P-121260; Reviewed: 16 November, 2023, QC No. Q-121260; Revised: 21 November, 2023, Manuscript No. R-121260; Published: 28 November, 2023, DOI: 10.37421/2573-0312.2023.8.364