

HEB



JOPD

Journal of Prosthodontics Dentistry
An Official Publication of Bureau for Health & Education Status Upliftment
 (Constitutionally Entitled as Health-Education, Bureau)

Evaluation of Survival Rates of Dental Implants in Patients Using Proton Pump Inhibitors: A Systematic Review and Meta-Analysis

1. Dr. Darshana Shah, Dean and HOD, Department of Prosthodontics and Crown and Bridge and Oral Implantology, Ahmedabad Dental College and Hospital, Ahmedabad, Gujarat
2. Dr. Chirag Chauhan, Professor, Department of Prosthodontics and Crown and Bridge and Oral Implantology, Ahmedabad Dental College and Hospital, Ahmedabad, Gujarat
3. Dr. Nidhi Rathod, Post graduate Student, Department of Prosthodontics and Crown and Bridge and Oral Implantology, Ahmedabad Dental College and Hospital, Ahmedabad, Gujarat
4. Dr. Krina Merchant, Post graduate Student, Department of Prosthodontics and Crown and Bridge and Oral Implantology, Ahmedabad Dental College and Hospital, Ahmedabad, Gujarat
5. Dr. Drashti Pandya, Post graduate Student, Department of Prosthodontics and Crown and Bridge and Oral Implantology, Ahmedabad Dental College and Hospital, Ahmedabad, Gujarat

Email Id: serviceheb@gmail.com

Abstract: Aim: The present systematic review aims to determine the Survival rate of dental implants in proton pump inhibitors.

Materials and Methods: A systematic search was conducted in electronic databases such as google scholar, pubMed, Embase, Cochrane, Scopus, Elsevier. All the studies that assessed the effect of PPIs on dental implants were included, irrespective of the design animal studies, non-clinical studies, case reports were excluded.

Results and Statistical Analysis Used: A total of seven publications fulfilled the inclusion criteria. All these included articles were retrospective cohort studies; the methodological quality was assessed using Newcastle-Ottawa scale. A total of 11160 implants were placed in 3785 PPI users. Of these 374 implants failed in PPI users. The meta-analysis was performed using the statistical software Review Manager, and a fixed-effect model was used to obtain the results.

Conclusion: As far as the available evidence is considered, it seems that the usage of PPI has a no effect on the success of dental implant. The biological failure rate of dental implants is 5%. There is no mechanical failure rate is found. Hence, there is a need to conduct well-designed, prospective, randomized clinical trials with balanced confounding factors to derive a proper conclusion.

Keywords: Dental implant, proton pump inhibitors, osseo-integration, omeprazole

Access this Article Online

Website: <http://heb-nic.in/jopd>

Received on 26/03/2024

Accepted on 02/04/2024 © HEB All rights reserved

Quick Response Code:

