

Goiato, Marcelo Coelho; Haddad, Marcela Filié; Gennari Filho, Humberto; Ribeiro Villa, Luiz Marcelo; Dos Santos, Daniela Micheline; Alves Pesqueira, Aldiéris; Dental Implant Fractures – Aetiology, Treatment and Case Report, J Clin Diagn Res. 2014 Mar; 8(3): 300–304

Abstract: Purpose: This study aimed to investigate the etiology, clinical manifestations, and treatment options of dental implants fractures through a literature review and to relate a clinical report.

Methods: A literature review was performed using the Medline database and this paper describes a case demonstrating the management of implant fracture. Twenty two articles were selected in the present literature review.

Results: Nowadays the use of dental implants to rehabilitate completely and partially edentulous patients became the best treatment option; however, this treatment is suitable to failure. The fracture of implant body is a possible complication. The fracture of implant body is a late complication and is related to the failure in implant design or material, non-passive fitting of the prosthetic crown and overloading. Clinically, prosthesis instability and spontaneous bleeding are observed. Three options of treatment have been indicated: complete removal of implant fragment, maintenance of implant fragment, and surface preparation of the fragment with insertion of a new abutment.

Conclusion: The literature indicates the complete removal of the fragment as the best treatment option.