

Issue: implants 3/2025

Title: Saving the implant and the prosthesis: **Regenerative** treatment of **peri-implantitis** involving GalvoSurge

Author: Dr Jochen Tunkel, Germany

Literature

1. Schneider S, Rudolph M, Bause V, Terfort A. Electrochemical removal of biofilms from titanium dental implant surfaces. *Bioelectrochemistry*. 2018 Jun;121:84–94. doi: 10.1016/j.bioelechem.2018.01.008.
2. Gianfreda F, Punzo A, Pistilli V, Bollero P, Cervino G, D'Amico C, Cairo F, Cicciù M. Electrolytic cleaning and regenerative therapy of peri-implantitis in the esthetic area: a case report. *Eur J Dent*. 2022 Oct;16(4):950–6. doi: 10.1055/s-0042-1750773.
3. Bosshardt DD, Brodbeck UR, Rathe F, Stumpf T, Imber JC, Weigl P, Schlee M. Evidence of re-osseointegration after electrolytic cleaning and regenerative therapy of peri-implantitis in humans: a case report with four implants. *Clin Oral Investig*. 2022 Apr;26(4):3735–46. doi: 10.1007/s00784-021-04345-1.
4. Mayer Y, Ginesin O, Horwitz J. A nonsurgical treatment of peri-implantitis using mechanic, antiseptic and anti-inflammatory treatment: 1 year follow-up. *Clin Exp Dent Res*. 2020 Aug;6(4):478–85. doi: 10.1002/cre2.286.
5. Zucchelli G, Felice P, Mazzotti C, Marzadori M, Mounssif I, Monaco C, Stefanini M. 5-year outcomes after coverage of soft tissue dehiscence around single implants: a prospective cohort study. *Eur J Oral Implantol*. 2018;11(2):215–24.
6. Schwarz F, Hegewald A, John G, Sahm N, Becker J. Four-year follow-up of combined surgical therapy of advanced peri-implantitis evaluating two methods of surface decontamination. *J Clin Periodontol*. 2013 Oct;40(10):962–7. doi: 10.1111/jcpe.12143.
7. Schlee M, Rathe F, Brodbeck U, Ratka C, Weigl P, Zipprich H. Treatment of peri-implantitis—electrolytic cleaning versus mechanical and electrolytic cleaning—a randomized controlled clinical trial—six-month results. *J Clin Med*. 2019 Nov 7;8(11):1909. doi: 10.3390/jcm8111909.
8. Ratka C, Weigl P, Henrich D, Koch F, Schlee M, Zipprich H. The effect of in vitro electrolytic cleaning on biofilm-contaminated implant surfaces. *J Clin Med*. 2019 Sep 6;8(9):1397. doi: 10.3390/jcm8091397. Erratum in: *J Clin Med*. 2022 Feb 08;11(3):882. doi: 10.3390/jcm11030882.