

Title: **Impact of periodontitis on systemic health and on implants. Part 1.**

Authors: Curd Bollen, Paul Tipton, Mishel Kocharyan, Gagik Hakobyan

References

1. Orlandi M, Muñoz Aguilera E, Marletta D, Petrie A, Suvan J, D'Aiuto F. Impact of the treatment of periodontitis on systemic health and quality of life: A systematic review. *J Clin Periodontol*. 2022 Jun;49 Suppl 24:314-327. doi: 10.1111/jcpe.13554. Epub 2021 Nov 17. PMID: 34791686.
2. Möller B, Kollert F, Sculean A, Villiger PM. Infectious Triggers in Periodontitis and the Gut in Rheumatoid Arthritis (RA): A Complex Story About Association and Causality. *Front Immunol*. 2020 Jun 3;11:1108. doi: 10.3389/fimmu.2020.01108. PMID: 32582191; PMCID: PMC7283532.
3. Listgarten MA. Pathogenesis of periodontitis. *J Clin Periodontol*. 1986 May;13(5):418-30. doi: 10.1111/j.1600-051x.1986.tb01485.x. PMID: 3522650.
4. Martínez-García M, Hernández-Lemus E. Periodontal Inflammation and Systemic Diseases: An Overview. *Front Physiol*. 2021 Oct 27;12:709438. doi: 10.3389/fphys.2021.709438. PMID: 34776994; PMCID: PMC8578868.
5. Petrenya N, Hopstock LA, Holde GE, Oscarson N, Jönsson B. Relationship between periodontitis and risk of cardiovascular disease: Insights from the Tromsø Study. *J Periodontol*. 2022 Sep;93(9):1353-1365. doi: 10.1002/JPER.22-0004. Epub 2022 Jun 23. PMID: 35621303.
6. Leira Y, Seoane J, Blanco M, Rodríguez-Yáñez M, Takkouche B, Blanco J, Castillo J. Association between periodontitis and ischemic stroke: a systematic review and meta-analysis. *Eur J Epidemiol*. 2017 Jan;32(1):43-53. doi: 10.1007/s10654-016-0170-6. Epub 2016 Jun 14. PMID: 27300352.
7. Pradeep AR, Hadge P, Arjun Raju P, Shetty SR, Shareef K, Guruprasad CN. Periodontitis as a risk factor for cerebrovascular accident: a case-control study in the Indian population. *J Periodontal Res*. 2010 Apr;45(2):223-8. doi: 10.1111/j.1600-0765.2009.01220.x. Epub 2009 Sep 23. PMID: 19778330.
8. Preshaw PM, Alba AL, Herrera D, Jepsen S, Konstantinidis A, Makrilakis K, Taylor R. Periodontitis and diabetes: a two-way relationship. *Diabetologia*. 2012 Jan;55(1):21-31. doi: 10.1007/s00125-011-2342-y. Epub 2011 Nov 6. PMID: 22057194; PMCID: PMC3228943.

9. Rohani B. Oral manifestations in patients with diabetes mellitus. *World J Diabetes*. 2019 Sep 15;10(9):485-489. doi: 10.4239/wjd.v10.i9.485. PMID: 31558983; PMCID: PMC6748880.
10. Chopra A, Jayasinghe TN, Eberhard J. Are Inflamed Periodontal Tissues Endogenous Source of Advanced Glycation End-Products (AGEs) in Individuals with and without Diabetes Mellitus? A Systematic Review. *Biomolecules*. 2022 Apr 27;12(5):642. doi: 10.3390/biom12050642. PMID: 35625570; PMCID: PMC9138899.
11. Baima G, Marruganti C, Sanz M, Aimetti M, Romandini M. Periodontitis and COVID-19: Biological Mechanisms and Meta-analyses of Epidemiological Evidence. *J Dent Res*. 2022 Nov;101(12):1430-1440. doi: 10.1177/00220345221104725. Epub 2022 Jun 30. PMID: 35774019.
12. Scannapieco FA, Bush RB, Paju S. Associations between periodontal disease and risk for nosocomial bacterial pneumonia and chronic obstructive pulmonary disease. A systematic review. *Ann Periodontol*. 2003 Dec;8(1):54-69. doi: 10.1902/annals.2003.8.1.54. PMID: 14971248.
13. Sapey E, Yonel Z, Edgar R, Parmar S, Hobbins S, Newby P, Crossley D, Usher A, Johnson S, Walton GM, McGuinness A, Chapple I, Stockley R. The clinical and inflammatory relationships between periodontitis and chronic obstructive pulmonary disease. *J Clin Periodontol*. 2020 Sep;47(9):1040-1052. doi: 10.1111/jcpe.13334. Epub 2020 Jul 9. PMID: 32567697.
14. Sapey E, Yonel Z, Edgar R, Parmar S, Hobbins S, Newby P, Crossley D, Usher A, Johnson S, Walton GM, McGuinness A, Chapple I, Stockley R. The clinical and inflammatory relationships between periodontitis and chronic obstructive pulmonary disease. *J Clin Periodontol*. 2020 Sep;47(9):1040-1052. doi: 10.1111/jcpe.13334. Epub 2020 Jul 9. PMID: 32567697.
15. Jajoo NS, Shelke AU, Bajaj RS, Patil PP, Patil MA. Association of periodontitis with pre term low birth weight - A review. *Placenta*. 2020 Jun;95:62-68. doi: 10.1016/j.placenta.2020.03.006. Epub 2020 Mar 17. PMID: 32452403.
16. Geisinger ML, Geurs NC, Bain JL, Kaur M, Vassilopoulos PJ, Cliver SP, Hauth JC, Reddy MS. Oral health education and therapy reduces gingivitis during pregnancy. *J Clin Periodontol*. 2014 Feb;41(2):141-8. doi: 10.1111/jcpe.12188. Epub 2013 Nov 19. PMID: 24164645.
17. Genco RJ, Sanz M. Clinical and public health implications of periodontal and systemic diseases: An overview. *Periodontol 2000*. 2020 Jun;83(1):7-13. doi: 10.1111/prd.12344. PMID: 32385880.
18. Al Agili DE, Khalaf ZI. The role of oral and prenatal healthcare providers in the promotion of oral health for pregnant women. *BMC Pregnancy Childbirth*. 2023 May 3;23(1):313. doi: 10.1186/s12884-023-05654-x. PMID: 37138232; PMCID: PMC10157922.

19. Inchingolo F, Inchingolo AM, Avantario P, Settanni V, Fatone MC, Piras F, Di Venere D, Inchingolo AD, Palermo A, Dipalma G. The Effects of Periodontal Treatment on Rheumatoid Arthritis and of Anti-Rheumatic Drugs on Periodontitis: A Systematic Review. *Int J Mol Sci*. 2023 Dec 7;24(24):17228. doi: 10.3390/ijms242417228. PMID: 38139057; PMCID: PMC10743440.
20. Petit C, Culshaw S, Weiger R, Huck O, Sahrman P. Impact of treatment of rheumatoid arthritis on periodontal disease: A review. *Mol Oral Microbiol*. 2024 Aug;39(4):199-224. doi: 10.1111/omi.12454. Epub 2024 Feb 16. PMID: 38363058.
21. Deschamps-Lenhardt S, Martin-Cabezas R, Hannedouche T, Huck O. Association between periodontitis and chronic kidney disease: Systematic review and meta-analysis. *Oral Dis*. 2019 Mar;25(2):385-402. doi: 10.1111/odi.12834. Epub 2018 Apr 19. PMID: 29377446.
22. Serni L, Caroti L, Barbato L, Nieri M, Serni S, Cirami CL, Cairo F. Association between chronic kidney disease and periodontitis. A systematic review and metanalysis. *Oral Dis*. 2023 Jan;29(1):40-50. doi: 10.1111/odi.14062. Epub 2021 Nov 29. PMID: 34726333.