**Critically Appraised Topic (CAT)**

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| **Project Team:** |
| **6-3B** |
| **Project Team Participants:** |
| **Abdulkareem Harunani**  **Juno Park**  **Angela Schmidt**  **Christian Borer** |
| **Clinical Question:** |
| What risk if this patient at for periimplantitis with having a history of periodontitis? |
| **PICO Format:** |
| **P:** |
| **Incidence of Peri-Implantitis** |
| **I:** |
| **Patients with Periodontitis** |
| **C:** |
| **Patients without Periodontitis** |
| **O:** |
| **Implant Success** |
| **PICO Formatted Question:** |
| What is the incidence of periimplantitis in patients with history of periodontitis compared to patients without periodontitis resulting in implant success? |
| **Clinical Bottom Line:** |
| **Periodontitis increases the incidence of peri-implantitis** |
| **Date(s) of Search:** |
| **10/03/2020** |
| **Database(s) Used:** |
| **Pubmed** |
| **Search Strategy/Keywords:** |
| **periimplantitis, periodontitis, peri-implantitis** |
| **MESH terms used:** |
| **humans, dental, implants** |
| **Article(s) Cited:** |
| **Sgolastra F, Petrucci A, Severino M, Gatto R, Monaco A. Periodontitis, implant loss and peri-implantitis. A meta-analysis. Clin Oral Implants Res. 2015 Apr;26(4):e8-e16.**  **Dreyer H, Grischke J, Tiede C, Eberhard J, Schweitzer A, Toikkanen SE, Glöckner S, Krause G, Stiesch M. Epidemiology and risk factors of peri-implantitis: A systematic review. J Periodontal Res. 2018 Oct;53(5):657-681.** |
| **Study Design(s):** |
| **Meta-analysis, systematic review** |
| **Reason for Article Selection:** |
| **Directly answer question** |
| **Article(s) Synopsis:** |
| **After reviewing many articles, a pattern emerged in that higher incidences of periodontitis were linked to higher incidences of peri-implantitis.** |
| **Levels of Evidence:** (For Therapy/Prevention, Etiology/Harm)  See <http://www.cebm.net/index.aspx?o=1025>  **1a** – Clinical Practice Guideline, Meta-Analysis, Systematic Review of Randomized Control Trials (RCTs)  **1b** – Individual RCT  **2a** – Systematic Review of Cohort Studies  **2b** – Individual Cohort Study  **3** – Cross-sectional Studies, Ecologic Studies, “Outcomes” Research  **4a** – Systematic Review of Case Control Studies  **4b** – Individual Case Control Study  **5** – Case Series, Case Reports  **6** – Expert Opinion without explicit critical appraisal, Narrative Review  **7** – Animal Research  **8** – In Vitro Research |
| **Strength of Recommendation Taxonomy (SORT) For Guidelines and Systematic Reviews**  See article **J Evid Base Dent Pract 2007;147-150**  **A** – Consistent, good quality patient oriented evidence  **B** – Inconsistent or limited quality patient oriented evidence  **C** – Consensus, disease oriented evidence, usual practice, expert opinion, or case series for studies of diagnosis, treatment, prevention, or screening |
| **Conclusion(s):** |
| * + **Prior to performing any treatment on the restoration or placement of implants, I would focus on increasing OHI and patient compliance to get a healthier mouth. I would also perform an SRP to help curb the periodontitis. If oral health/the periodontitis improves then I would look at placing/restoring the implants.** |