**Critically Appraised Topic (CAT)**

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| **Project Team:** |
| **4a-3** |
| **Project Team Participants:** |
| **Max Reisner, Alex Karakazis, Krishna Shah, Tiffany Joseph** |
| **Clinical Question:** |
| **In geriatric patients missing key teeth, are implant assisted RPDs more successful than conventional RPDs?** |
| **PICO Format:** |
| **P:** |
| **Geriatric patients missing mandibular teeth** |
| **I:** |
| **Implant assisted RPD** |
| **C:** |
| **Conventional RPD** |
| **O:** |
| **Long term success** |
| **PICO Formatted Question:** |
| **In geriatric patients who need replacement for missing mandibular teeth, are implant assisted RPDs more successful long-term compared to conventional RPDs?** |
| **Clinical Bottom Line:** |
| **Imlant assisted RPDs should be offered to patients as not only an alternative to conventional RPDs but as the treatment of choice.** |
| **Date(s) of Search:** |
| **9/30/20, 10/19/20** |
| **Database(s) Used:** |
| **NCBI** |
| **Search Strategy/Keywords:** |
| **Removable partial dentures, partial edentulism, implant assisted removable partial dentures** |
| **MESH terms used:** |
| **Dental prosthesis, Implant-Supported; Denture, Partial, Removable; Tooth loss; Dental prosthesis design; Jaw, Edentulous, Partially** |
| **Article(s) Cited:** |
| **Omura AJ, Latthe V, Marin MM, Cagna DR. Implant-assisted removable partial dentures: practical considerations. Gen Dent. 2016 Nov-Dec;64(6):38-45. PMID: 27814254.**  **Chatzivasileiou K, Kotsiomiti E, Emmanouil I. Implant-assisted removable partial dentures as an alternative treatment for partial edentulism: a review of the literature. Gen Dent. 2015 Mar-Apr;63(2):21-5. PMID: 25734282.**  **Mijiritsky E. Implants in conjunction with removable partial dentures: a literature review. Implant Dent. 2007 Jun;16(2):146-54. doi: 10.1097/ID.0b013e3180500b2c. PMID: 17563505.** |
| **Study Design(s):** |
| **Systematic Review of Randomized Control Trials, Systematic review of Case Control Studies, Expert Opinion** |
| **Reason for Article Selection:** |
| **The three articles I selected directly address the topic of effectiveness of implant supported removable partial dentures.** |
| **Article(s) Synopsis:** |
| **The long term survival of Implant assisted RPDs has not been effectively studied yet. However, the benefits of implant assisted RPDs in regards to patient comfort, satisfaction, esthetics and biomechanics indicate implant assisted RPDs as a better alternative to conventional RPDs.** |
| **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):** |
| **Implant assisted RPDs should be presented to partially edentulous patients as a better option than conventional RPDs when restoring edentulous areas.** |