40. Efficacy of mandibular 2-implant overdenture: an updated meta-analysis on patient-based outcomes

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Aim: To provide an update on the existing. Evidence from randomized controlled. Trials assessing the efficacy of. The mandibular 2-implant overdenture. In regard to patient-based outcomes.. Methodology: electronic searches were carried out. To september 2015 through medline,. Embase, the cochrane central register. Of controlled trials, and the cochrane. Systematic reviews. Only randomized. Controlled trials that compared conventional. Dentures with mandibular. 2-implant overdentures were included.. Patient-based outcomes were assessed,. Including patient satisfaction and oral. Health– and general health–related. Quality of life. Random effects models. Were used to pool the effect sizes of. All included studies. . Result: a random effects model. Showed that, when compared with. Conventional dentures, mandibular. 2-implant overdentures significantly. Improved patient satisfaction (pooled. Effect size = 0.87, z = 5.31, 95%. Confidence interval: 0.55 to 1.19,. P < 0.0001, ?2 = 41.82, df = 8, p <. 0.0001, i2 = 81%) and oral health–. Related quality of life (pooled effect. Size = –0.66, z = 2.72, 95% confidence. Interval: –1.13 to –0.18, p = 0.007,. ?2 = 21.26, df = 4, p = 0.0003, i2 =. 81%). . Knowledge transfer statement: this. Meta-analysis shows that mandibular. 2-implant overdentures are significantly. More satisfactory to the general edentate. Populations than new conventional. Dentures. The results also show that. Mandibular 2-implant overdentures. Provide significantly better oral health–. Related quality of life than do new. Conventional dentures. These results. Should be shared with edentate patients. In planning their treatment.