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Simplified Versus Conventional Complete Denture Fabrication Technique for Patient Satisfaction: A Systematic Review

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ABSTRACT

Statement of the problem: Conventional methods for fabricating complete dentures involve a series of clinical and laboratory procedures. Although there have been suggestions to simplify this process, it remains uncertain whether these simplified techniques achieve satisfactory treatment outcomes.

Purpose: The goal of this systematic review and meta-analysis was to assess the effectiveness of simplified denture fabrication techniques compared to conventional techniques (CTs).

Materials and Methods: Standard methodological procedures outlined by the Cochrane Collaboration for systematic reviews and meta-analyses were followed. An electronic search was conducted using MEDLINE through PubMed, the Cochrane trial registry, and Scopus, along with a manual search up to February 2020 to identify relevant studies. Only randomized controlled trials involving edentulous adults who required complete denture treatment were included in the review.

Results: Twelve studies met the inclusion criteria. The pooled estimate of included studies for patient satisfaction at 6 months marginally favoured the simplified method of denture fabrication. The combined estimate of included studies for clinical time, post insertion visits, masticatory efficiency and cost of fabrication favored simplified method.

Conclusion: Simplified techniques proved to be more cost-effective and less time-consuming than conventional techniques (CT), without showing significant differences in patient satisfaction or oral health-related quality of life. However, due to the high risk of bias and heterogeneity among the studies, these results should be interpreted with caution.

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