

## Combined periodontal and orthodontic treatment in adult patients with chronic periodontitis- A systematic literature review

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### Abstract

**Aim:** To systematically assess changes of periodontal parameters before and after combined periodontal– orthodontic treatment for patients with chronic periodontitis (Armitage, 1999). **Materials and Methods:** An electronic literature search from MEDLINE database of articles published between 2003 and 2018 was conducted. Sequential screenings at the title, abstract and full-text levels were performed. Clinical human studies in the English language that had reported combined periodontal – orthodontic treatment of infrabony defects due to chronic periodontitis were included. **Results:** The search resulted in 10 articles meeting the inclusion criteria: five of them reported combined periodontal – orthodontic treatment with tissue regeneration, five – without regeneration. Studies showed that the combined treatment application resulted in the infrabony defects healing, obtaining a significant probing depth reduction and clinical attachment gain. **Conclusions:** According to the evaluated articles, combined periodontal – orthodontic treatment did not have a negative effect on the healing process in periodontal tissue defects. Further efficacy studies should be carried out with more periodontal measurements of these procedures.