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# **Efficacy of adjunctive systemic or local antibiotic therapy in peri-implantitis: a systematic review and meta-analysis of randomized controlled clinical trials**

**Key words:** Peri-implantitis, Dental implant, Oral medicine, Microbiology, Disease management, Meta-analysis

# ***Research Summary***

**This systematic review and meta-analysis considered the results of randomized controlled clinical trials (RCTs) to evaluate the efficacy of systemic or local antibiotics therapy on peri-implantitis.**

## **Evaluation of outcomes:**

- changes in pocket probing depth (PPD)**
- survival rate (SR)**
- changes in clinical attachment level (CAL)**
- changes in bone level (BL)**

# ***Innovation points***

- **Investigated** the outcomes of implants treated for peri-implantitis by surgical or nonsurgical methods
- **Compared** the results with or without supplementary antibiotics through a meta-analysis
- **Assessed** whether antibiotics demonstrate superior efficacy in treatment for peri-implantitis, compared to other adjuvant approaches
- **Included** randomized controlled clinical trials to acquire higher-quality outcomes

# ***Innovation points***

**A series of comprehensive were generated to summarize the efficacy of adjunctive antibiotics therapy in peri-implantitis.**

- Fig. 3a | Forest plot of PPD and meta-analyses for the comparison of pocket probing depth changes**
- Fig. 3b | Forest plot of SR and meta-analyses for the comparison of survival rate.**
- Fig. 3c | Forest plot of CAL and meta-analyses for the comparison of clinical attachment level**
- Fig. 3d | Forest plot of BL and meta-analyses for the comparison of bone level**