

Pengaruh skeling dan penghalusan akar terhadap densitas tulang alveolar serta jumlah Porphyromonas gingivalis dan Treponema denticola pada periodontitis kronis = Scaling and root planing effects on alveolar bone density and amount of Porphyromonas gingivalis and Treponema denticola in chronic periodontitis

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#### Abstrak

Latar Belakang: Eliminasi Porphyromonas gingivalis (Pg) dan Treponema denticola (Td), dengan skeling dan penghalusan akar (SPA) meningkatkan densitas tulang alveolar. Tujuan: Analisis densitas tulang alveolar serta jumlah bakteri Pg dan Td sebelum dan sesudah SPA pada kasus periodontitis kronis.

Metode: Empat puluh subjek menyetujui informed consent, dilakukan pemeriksaan klinis, radiografis densitas tulang alveolar, penghitungan jumlah Pg dan Td dengan RT-PCR.

Hasil: Perbedaan bermakna jumlah bakteri Pg, Td, serta densitas tulang antara sebelum dan sesudah SPA ( $p<0,05$ ); Hubungan bermakna antara jumlah bakteri Pg dan Td dengan densitas radiografis ( $p<0,05$ ).

Kesimpulan: SPA menurunkan jumlah bakteri Pg, Td, dan meningkatkan densitas radiografis tulang alveolar.

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Background: Elimination of Porphyromonas gingivalis (Pg) and Treponema denticola (Td) with scaling and root planing (SRP) can increase the radiographic alveolar bone density.

Objective: To analyze radiographic bone density, amount of Pg and Td before and after SRP.

Methods: Fourty subjects fill the informed consent, clinical examination, radiographic examination for bone density, count of Pg and Td using RT-PCR.

Result: Significant differences between radiographic bone density, amount of Pg and Td before and after SRP. Significant association between amount of Pg and Td and bone radiographic density.

Conclusion: Scaling and root planing decrease the amount of Pg and Td and increase radiographic bone density.