

Hubungan antara analisis radiografis kepadatan tulang alveolar di sekitar implan dental dan frekuensi resonansi implan dental = Correlation between radiographic analysis of alveolar bone density surrounding dental implant and resonance frequency of dental implant

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Abstrak

[ABSTRAK

Pada 35 sampel, dilakukan analisis radiografis kepadatan tulang alveolar di sekitar implan dental menggunakan piranti lunak SIDEXIS-XG dan pengukuran frekuensi resonansi implan dengan menggunakan Osstell ISQ segera setelah pemasangan implan dan saat kontrol bulan ketiga. Tidak terdapat hubungan bermakna antara analisis radiografis kepadatan tulang alveolar di sekitar implan dental dan frekuensi resonansi implan dental ($r = -0,102$ di awal dan $r = 0,146$ saat kontrol, $p > 0,05$), namun terdapat perubahan bermakna kepadatan tulang alveolar di sekitar implan dental ($p = 0,005$) dan frekuensi resonansi implan dental ($p = 0,000$) selama masa penyembuhan.

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ABSTRACT

On 35 samples, alveolar bone density surrounding dental implant was analyzed using SIDEXIS-XG software and resonance frequency of dental implant was acquired by Osstell ISQ right after dental implant placement and on third-month follow-up. No significant correlation was reported between radiographic analysis of alveolar bone density surrounding dental implant and resonance frequency of dental implant ($r = -0,102$ at baseline dan $r = 0,146$ on follow-up, $p > 0,05$). However, significant difference was observed for alveolar bone density surrounding dental implant and resonance frequency of dental implant throughout healing period ($p = 0,005$ and $p = 0,000$ respectively).; On 35 samples, alveolar bone density surrounding dental implant was analyzed using SIDEXIS-XG software and resonance frequency of dental implant was acquired by Osstell ISQ right after dental implant placement and on third-month follow-up. No significant correlation was reported between radiographic analysis of alveolar bone density surrounding dental implant and resonance frequency of dental implant ($r = -0,102$ at baseline dan $r = 0,146$ on follow-up, $p > 0,05$). However, significant difference was observed for alveolar bone density surrounding dental implant and resonance frequency of dental implant throughout healing period ($p = 0,005$ and $p = 0,000$ respectively).; On 35 samples, alveolar bone density surrounding dental implant was analyzed using SIDEXIS-XG software and resonance frequency of dental implant was acquired by Osstell ISQ right after dental implant placement and on third-month follow-up. No significant correlation was reported between radiographic analysis of alveolar bone density surrounding dental implant and resonance frequency of dental implant ($r = -0,102$ at baseline dan $r = 0,146$ on follow-up, $p > 0,05$). However, significant difference was observed for alveolar bone density surrounding dental implant and resonance frequency of dental implant throughout healing period ($p = 0,005$ and $p = 0,000$ respectively)., On 35 samples, alveolar bone density surrounding dental implant was analyzed using SIDEXIS-XG software and resonance frequency of dental implant was acquired by Osstell ISQ right after dental implant placement and on third-month follow-up. No significant correlation was reported between radiographic analysis of alveolar bone density surrounding dental implant and

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