

# Kadar Human Beta Defensin-1 pada Penderita Periodontitis Kronis dan Periodontitis Agresif dalam Cairan Krevikular Gingiva = Level of Human Beta Defensin-1 in Patients with Chronic Periodontitis and Aggressive Periodontitis in Gingival Crevicular Fluid

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## Abstrak

Latar Belakang: Kerusakan jaringan periodontal terjadi karena inflamasi terhadap invasi bakteri. Human beta defensin-1 adalah peptida antimikroba dan pertahanan pertama terhadap infeksi.

Tujuan Penelitian: Membandingkan kadar ekspresi HBD-1 antara kelompok periodontitis kronis, periodontitis agresif dan normal

Bahan dan Metode: Kadar HBD-1 dari 94 sampel CKG subjek periodontitis kronis, periodontitis agresif dan normal diukur dengan ELISA

Hasil: Analisis Mann-Whitney menunjukkan perbedaan kadar HBD-1 antara periodontitis kronis dengan normal ( $p < 0,05$ ) dan tidak terdapat perbedaan signifikan ( $p > 0,05$ ) antara periodontitis agresif dengan normal, dan antara periodontitis kronis dengan periodontitis agresif.

Kesimpulan: Kadar HBD-1 pada CKG menurun pada kondisi periodontitis kronis dan periodontitis agresif.  
.....Background: Periodontal disease is happened because inflammation reaction ro bacterial invasion. Human beta defensin-1 (HBD-1) is antimicroba peptide which regulate the first defense mechanism.

Objectives: To compare level of HBD-1 between chronic periodontitis, aggressive periodontitis, and normal group.

Material and Methods: Level of HBD-1 from GCF sample of chronic periodontitis, aggressive periodontitis, and normal group were assessed with ELISA.

Results: Mann-Whitney analysis show different level of HBD-1 expression between chronic periodontitis and normal ( $p < 0,05$ ) and there was no significant difference ( $p > 0,05$ ) between aggressive periodontitis and normal, and between chronic periodontitis and aggressive periodontitis.

Conclusion: Level of HBD-1 in GCF decreased in chronic periodontitis and aggressive periodontitis.