

# Kadar Interleukin-4 (IL-4) dalam Cairan Krevikular Gingiva Penderita Periodontitis Kronis dan Periodontitis Agresif = Level of Interleukin-4 (IL-4) in Gingival Crevicular Fluid of Patients with Chronic Periodontitis and Aggressive Periodontitis.

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## Abstrak

Latar belakang: Periodontitis merupakan interaksi kompleks antara sitokin pro-inflamasi dan sitokin anti-inflamasi. Sitokin anti-inflamasi seperti IL-4 pada cairan krevikular gingiva (CKG) dapat menjadi biomarker penyakit periodontal.

Tujuan Penelitian: Menganalisis perbedaan kadar IL-4 dalam CKG penderita periodontitis kronis dan periodontitis agresif.

Metode dan Bahan: Sampel CKG dikumpulkan dari pasien normal (n=21), periodontitis kronis (n=38) dan periodontitis agresif (n=35) dan dilakukan analisis kadar IL-4 dengan menggunakan ELISA.

Hasil: Terdapat perbedaan kadar IL-4 antara periodontitis kronis dengan normal dan antara periodontitis agresif dengan normal (p=0,000). Tidak ada perbedaan kadar IL-4 (p=0,729) antara periodontitis kronis (14,73±0,32 pg/ml) periodontitis agresif (20,58±23,00 pg/ml).

Kesimpulan: Kadar IL-4 menurun pada kondisi inflamasi, baik pada periodontitis kronis ataupun periodontitis agresif.

.....Background: Periodontitis is a complex interaction between pro-inflammatory and anti-inflammatory cytokine. IL-4 is an anti-inflammatory cytokine in GCF that can be used as a periodontal biomarker.

Objectives: To compare level of IL-4 in GCF of chronic periodontitis and aggressive periodontitis.

Material and Methods: GCF sample were collected from normal (n=21), periodontitis chronic (n=38) and aggressive periodontitis (n=35) group and analysis of level IL-4 was performed with ELISA.

Results: There was a difference level of IL-4 between chronic periodontitis with normal and between aggressive periodontitis with normal (p=0,000). There was no difference level of IL-4 (p=0,729) between chronic periodontitis (14,73±0,32 pg/ml) and aggressive periodontitis (20,58±23,00 pg/ml).

Kesimpulan: Level of IL-4 was decreased in inflammation condition, either chronic periodontitis or aggressive periodontitis.