

Analisis kadar matrix metalloproteinase-8 (MMP-8) pada cairan krevikular gingiva penderita periodontitis kronis dan periodontitis agresif = Analysis of matrix metalloproteinase-8 (MMP-8) in the gingival crevicular fluid of chronic and aggressive periodontitis patients

Astri Sulandari Arymami, author

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Abstrak

Latar belakang: Suatu biomarker imunologis diperlukan untuk kasus yang berbatasan antara periodontitis kronis dan periodontitis agresif. Matrix Metalloproteinase-8 (MMP-8) merupakan suatu biomarker penentu risiko dan derajat keparahan penyakit periodonal serta evaluasi hasil perawatan periodontal.

Tujuan: Menganalisis kadar MMP-8 pada cairan krevikular gingiva penderita periodontitis kronis dan periodontitis agresif.

Metode: Penelitian ini mencakup 12 pasien periodontitis agresif, 17 pasien periodontitis kronis dan 6 subjek sehat. Kadar MMP-8 diukur dengan teknik ELISA.

Hasil: Kadar MMP-8 pada periodonitits kronis tidak berbeda bermakna dengan periodontitis agresif ($p>0,05$).

Kesimpulan: MMP-8 tidak dapat digunakan sebagai acuan diagnosis.

.....Background: An immunologic biomarker is needed to distinguish between borderline cases between chronic periodontitis and aggressive periodontitis. Matrix Metalloproteinase-8 (MMP-8) can be a risk profile of periodontal disease, disease progression and evaluation of periodontal treatment.

Aim: Analyze MMP-8 levels in gingival crevicular fluid of chronic and aggressive periodontitis patients.

Method: Sampel was collected from 6 healthy subjects, 12 subjects aggressive periodontitis and 17 chronic periodontitis subjects. MMP-8 levels were measured with ELISA.

Result: MMP-8 levels in chronic periodontitis did not show any difference to the MMP-8 levels in aggressive periodonitits ($p>0,05$).

Conclusion: MMP-8 can not serve as a diagnostic parameter.