

## Perbandingan Kadar Human Beta Defensin-3 (HBD-3) pada Penderita Periodontitis Kronis dan Periodontitis Agresif = Comparison of Human Beta Defensin-3 (HBD-3) in the Chronic Periodontitis and Aggressive Periodontitis Patient

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### Abstrak

#### [<b>ABSTRAK</b><br>

Latar Belakang: Pada kasus borderline periodontitis agresif dan periodontitis kronis diperlukan suatu biomarker imunologis yang dapat membantu menegakkan diagnosis dengan tepat. Human Beta Defensin-3 merupakan suatu protein yang berasal dari host yang dapat menggambarkan derajat keparahan penyakit periodontal. Tujuan: Menganalisis kadar hBD-3 pada cairan krevikular gingiva penderita periodontitis kronis dan periodontitis agresif. Metode: Penelitian ini melibatkan 16 orang penderita periodontitis agresif, 16 orang penderita periodontitis kronis dan 8 subyek sehat. Kadar hBD-3 diukur dengan teknik ELISA. Hasil: Kadar hBD-3 pada periodontitis kronis tidak berbeda bermakna dengan kadar hBD-3 periodontitis agresif ( $p>0,05$ ). Kesimpulan: Kadar HBD-3 dalam cairan krevikular gingiva tidak berbeda bermakna pada penderita periodontitis kronis dan periodontitis agresif sehingga belum bisa digunakan sebagai alternatif diagnosis.

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#### <b>ABSTRACT</b><br>

Background: For borderline cases between chronic and aggressive periodontitis, an immunologic biomarker is needed to fix the diagnosis. Human Beta Defensin-3 is a host protein that can describe the severity of periodontitis. Aim: Analyzing Human Beta Defensin-3 (HBD-3) levels in gingival crevicular fluid of chronic and aggressive periodontitis patient. Method: Samples were collected from 8 healthy subjects, 16 aggressive periodontitis subjects and 16 chronic periodontitis subjects. HBD-3 level was measured by using ELISA technique. Result: HBD-3 levels in chronic periodontitis didn't show any difference to the hBD-3 levels in aggressive periodontitis ( $p>0,05$ ). Conclusion: HBD-3 levels in chronic periodontitis didn't show any difference to the aggressive one so it can not be used as a diagnostic parameter in chronic periodontitis and aggressive as well. Background: For borderline cases between chronic and aggressive periodontitis, an immunologic biomarker is needed to fix the diagnosis. Human Beta Defensin-3 is a host protein that can describe the severity of periodontitis. Aim: Analyzing Human Beta Defensin-3 (HBD-3) levels in gingival crevicular fluid of chronic and aggressive periodontitis patient. Method: Samples were collected from 8 healthy subjects, 16 aggressive periodontitis subjects and 16 chronic periodontitis subjects. HBD-3 level was measured by using ELISA technique. Result: HBD-3 levels in chronic periodontitis didn't show any difference to the hBD-3 levels in aggressive periodontitis ( $p>0,05$ ). Conclusion: HBD-3 levels in chronic periodontitis didn't show any difference to the aggressive one so it can not be used as a diagnostic parameter in chronic periodontitis and aggressive as well.

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