

# Status metilasi gen Interleukin 8 (IL-8) pada penderita Periodontitis = Methylation status of interleukin 8 il 8 gene in periodontitis patients / Ananda Ghina Lugiena

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## Abstrak

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

Latar Belakang: Metilasi menyebabkan perubahan ekspresi gen IL-8 yang berperan dalam kemotaksis neutrofil pada periodontitis. Tujuan: mengetahui distribusi status metilasi gen IL-8 pada periodontitis, dan perbedaan distribusi status metilasi IL-8 pada periodontitis dengan normal.

Metode: modifikasi bisulfit dengan MS-PCR digunakan untuk menganalisis 65 subjek kontrol dan 35 subjek periodontitis.

Hasil: 3 sampel (3%) berstatus fully methylated, 97 sampel (97%) berstatus partially methylated, dan tidak terdapat status fully unmethylated.

Kesimpulan: Tidak terdapat perbedaan yang signifikan antara status metilasi gen IL-8 pada penderita periodontitis dan individu normal ( $p \geq 0.05$ ).

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

Background: methylation results in modification of IL-8 gene expression which acts as chemotaxis factor of neutrophil in periodontitis.

Objectives: describe the distribution of methylation status of IL-8 gene in periodontitis and to observe the difference of methylation status distribution of IL-8 in periodontitis and healthy individuals.

Methods: bisulfite modification and MS-PCR were used to analyze 65 controls and 35 periodontitis subjects.

Result: for all subjects, 3 samples (3%) were fully methylated, 97 (97%) partially methylated, and none fully unmethylated.

Conclusion: no significant difference was found in the methylation status of IL-8 between periodontitis patients and healthy individuals ( $p \geq 0.05$ ).