

**Analisis kadar Interleukin-1 untuk melihat hubungan stres akademik terhadap status penyakit periodontal pada peserta Program Profesi Fakultas Kedokteran Gigi Universitas Indonesia = The relationship of academical stress to periodontal status and level of Interleukin-1 in gingival crevicular fluid studied in Profession Dental Student Faculty of Dentistry Universitas Indonesia**

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**Abstrak**

Latar Belakang: Stres dapat diimplikasikan sebagai faktor risiko terhadap penyakit periodontal, yang dapat dilihat melalui kadar Interleukin-1 (IL-1 ).

Tujuan: Menganalisa hubungan stres akademik terhadap status penyakit periodontal berdasarkan kadar IL-1 pada mahasiswa FKG UI program profesi.

Material dan metode: Pemeriksaan Dental Environmental Stress (DES), indeks periodontal (indeks modifikasi Russel), dan kadar IL-1 dengan ELISA assay terhadap 38 subjek.

Hasil: Perbedaan bermakna pada hubungan antara status penyakit periodontal dengan kadar IL-1 mahasiswa profesi dokter gigi FKG UI.

Kesimpulan: Terdapat hubungan antara status penyakit periodontal dengan kadar IL-1, namun hubungannya dengan stres akademik belum dapat dibuktikan.

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Introduction: Stress condition was implicated as one of risk factor to periodontal disease, that can be assessed by Interleukin-1 (IL-1) level.

Objectives: To analyze the relationship between academical stress to periodontal status and IL-1.

Material and methods: 38 subjects were measured for perceived stress using The Dental Environment Stress (DES); periodontal condition using modified Russel periodontal index, and level of IL-1 in GCF using ELISA assay.

Results: A significant differences was only showed in the relationship between IL-1 to periodontal status.

Conclusion: There is a relationship between IL-1 level to periodontal status, but not to academic stress.