

Semi-kuantifikasi mRNA ClpB *Prevotella intermedia* yang diisolasi dari pasien Implan Gigi sehat dan Periodontitis Kronis = Semi-quantification ClpB mRNA *Prevotella intermedia* isolated from healthy Dental Implant and Chronic Periodontitis

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Abstrak

Latar belakang: *Prevotella intermedia* terdapat pada implan gigi diduga mengekspresikan mRNA ClpB yang merupakan tanda terjadinya peri-implantitis.

Tujuan: Mendeteksi dan membandingkan rata-rata ekspresi mRNA ClpB Pi pada implan gigi sehat dan periodontitis kronis.

Metode: Plak implan gigi sehat dan periodontitis kronis dikultur dan diekstraksi RNAny. Kemudian dideteksi dan dilakukan semi-kuantifikasi dengan PCR.

Hasil: Ekspresi ClpB implan gigi sehat inkubasi 6x24 jam 117,24%, inkubasi 11x24 jam 98,4%, periodontitis kronis inkubasi 6x24 jam 93,36%, dan inkubasi 11x24 jam 97,86%.

Kesimpulan: Rata-rata ekspresi ClpB Pi lebih tinggi pada subjek implan gigi sehat.

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Background: *Prevotella intermedia* which found on dental implant suspected to express ClpB mRNA as a sign of peri-implantitis.

Objectives: To detect and compare the mean expression of ClpB mRNA Pi on healthy dental implant and chronic periodontitis.

Methods: Healthy dental implant and chronic periodontitis plaque cultured and the RNA extracted. Then, detection and semi-quantification of ClpB mRNA using PCR.

Result: ClpB expression on healthy dental implant incubated for 6x24 hours 117,2%, incubated for 11x24 hours 98,4%, on chronic periodontitis incubated for 11x24 hours 93,36%, and incubated for 11x24 hours 97,86%.

Conclusion: The means expression of ClpB mRNA Pi are higher in healthy dental implant.