

## Perubahan pola kadar interleukin-1 $\beta$ , fungsi fagositosis dan status periodontium pada penyandang diabetes melitus tipe 2

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### Abstrak

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Hyperglycemia which occurs in type 2 diabetic patient increases prostaglandin E2 (PGE2), cytokine expression, and decreases neutrophil phagocytotic function. This will induce inflammation and periodontal destruction, thus decreasing periodontal status. The aim of the study was to analyze the pattern of interleukin-1 $\beta$  (IL-1 $\beta$ ) level, phagocytotic function, and periodontal status. The study's design was cross-sectional on 45 controlled diabetes mellitus (CDM) and 45 uncontrolled diabetes mellitus (UCDM) subjects and 45 non diabetic subjects, 40-60 years old in Metabolic-Endocrinology Clinic Cipto Mangunkusumo Hospital. Statistical analysis was performed using a Stata 7.0 software computer. The result showed that the pattern alteration of increasing IL-1 $\beta$  level was in 2 hours-post prandial glucose level of >150mg/dL, decreasing phagocytotic function in glucose level of >170mg/dL, and decreasing periodontal status in glucose level of >240mg/dL. Therefore it is concluded that the pattern alteration of decreasing periodontal status, increasing IL-1 $\beta$ , and decreasing phagocytotic function showed on certain blood glucose level.