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Prevalence of acute pseudomembranous candidiasis in patients with type-2 diabetes mellitus at Gotong Royong Clinic Surabaya**Louisa Christy Lunardhi**
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Background: Oral Candidiasis (OC) is the most opportunistic infectious disease in the oral mucosa, one of them is Acute Pseudomembranous Candidiasis (APC). Due to *Candida* sp. which was the commensal flora in the oral cavity, but a wide variety of predisposing factors have the capacity to change *Candida* sp. become pathogenic organisms, one of which caused by systemic disease, diabetes mellitus (DM). Type-2 diabetes mellitus is a condition of hyperglycemia irreversible due to insulin resistance with the fasting glucose level ≥ 126 mg/dl, Oral Glucose Tolerance test ≥ 200 mg/dl, random blood glucose ≥ 200 mg/dl, and HbA1C $> 6.5\%$ can cause xerostomia, increase in salivary glucose levels and decrease of immune response.

Purpose: The aim of this study was to investigate the prevalence of Acute Pseudomembranous Candidiasis in patients with diabetes mellitus type-2 at Gotong Royong Clinic Surabaya.

Method: Analytic observational study with cross-sectional total sampling method was done on patients with type-2 DM and clinical and mycological examination for APC.

Results: Out of 72 patients with type-2 diabetes mellitus, 41 patients (56.94%) were determined suffering APC. The highest prevalence of APC was found in woman (60.98%) with an age range of 51-60 years, duration of suffering from DM is less than 1 year, with the increase in random blood glucose levels from 20%, 88.46%, until 100% from the normal level. There was correlation between random blood glucose and APC.

Conclusion: It was concluded that random blood glucose level affect the occurrence of APC. The higher random blood glucose level, the higher the event of APC.

Biography

Louisa Christy Lunardhi has received title of Dentist from Airlangga University, Faculty of Dentistry. Currently, she is working at Church's Clinic as a Dentist and wants to enroll in specialist prosthodontics.

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