

Assessment of oral hygiene status and inflammatory components in CVS patients

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ABSTRACT: Periodontal diseases have been associated with cardiovascular diseases and are one of the main causes of death in the world. The aim of the study is to assess the oral hygiene status and inflammatory components in cardiovascular patients. The objective of the study is to assess the oral hygiene status viz. dental status, gingival and periodontal status and mucosal changes and inflammatory components viz. cytokines in cardiovascular patients. The purpose of the study is to carry out assessment of oral hygiene status and inflammatory components in CVS patients due to cardiovascular diseases patients usually develop irritating factors regarding mainly to the periodontal area which would disrupt the oral hygiene status. 50 patients were included in the study and data was collected based on their blood pressure, cardiac status, medication prescribed, salivary pH, saliva flow rate as well as oral test on the periodontium. This assessment is carried out to determine if the periodontal disease contributes to increasing the risk factors of coronary diseases in the cardiovascular system.

INTRODUCTION

Periodontal diseases are a common infection which involves the periodontium. The periodontium are the tissues surrounding the tooth. Cardiovascular diseases on the other hand is a condition that involves the narrowing of blocked blood vessels that can lead to a series of conditions such as cardiac arrest, angina or stroke due to age, hypertension, diabetics, obesity, serum lipid concentration and abnormal habits. Periodontal diseases have been associated with cardiovascular diseases.^[1]

Based on researches, for the past three decades, increasing cardiovascular diseases has been sought out due to the impact of oral hygiene.^[2] Cardiovascular diseases is the leading cause of death throughout the nations of the world and the main factor is atherosclerosis which causes the hardening of arteries.^[3, 7] Both the diseases have high incidences and is important to be curb as it has a huge impact on the health of the public.^[4]

There are some reasons why periodontal diseases are associated with cardiovascular diseases such as smoking and diabetes besides intrinsic or extrinsic stimulus which causes and individual to have and inflammatory response. The presence of periodontal infections may lead to bacteria growth that can harm the cardiovascular system due to arteriosclerotic plaques.^[5]

The objective of the study is to assess the oral hygiene status viz. dental status, gingival and periodontal status and mucosal changes and inflammatory components viz. cytokines in cardiovascular patients.