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Dental Treatment In A Down Syndrome Adolescent Boy Patient: A Case Report

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ABSTRACT

Down syndrome is a genetic disorder in the form of trisomy 21, commonly associated with variety combination of morphological and structural defects, causing growth and developmental disturbance, both physically and mentally on the patient. Due to their intellectual disability, patients with Down syndrome have communication difficulties. Because of their condition, sometimes they have poor oral condition and dentists need to adapt and modify their treatment when treating Down syndrome patient. This case report aims to find out the successful dental treatmentsfor adolescent Down syndrome patient. A 14 years-old Down syndrome adolescent boy patient accompanied with his parents came to RSGM UNPAD with complaint of deciduous teeth which causing pain while chewing. Clinical examinations found five persistence deciduous teeth and gingivitis. Dental treatments proposed included behavior management, Oral Hygiene Instruction (OHI) for the patient and his parents, persistence teeth extraction, dietary analysis, plaque removal, and topical fluoride application. Recall check-up in the next month showed a better oral hygiene with no gingivitis and no complaint in chewing. Patients with Down syndrome require adapted approach in examination and treatment for their oral health. It takes cooperation between patients, parents, and dentists so that oral health can be achieved.

Keywords: adolescent patient, Down syndrome, dental treatment, gingivitis, persistence deciduous teeth.

INTRODUCTION

Down Syndrome is a genetic disorder in the form of trisomy 21. Down Syndrome was first discovered by Langdon Down in 1866.¹² The abnormality in the chromosome caused multiple physical defects and stunted growth.³ One of the most common physical defects in