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义齿表面微纹理对颜色影响的基础研究

刘小莉综述 罗云审校

四川大学华西口腔医院修复科 四川 成都 610041

The influence of surface microtexture on the color expression of dentures

LIU Xiao-li, LUO Yun

Dept. of Prosthodontics, West China College of Stomatology, Sichuan University, C

摘要

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**摘要** 天然牙表面纹理的不同会引起光线反射和折射的改变,从而导致牙齿的色彩发生变化。本文旨在通过简述天然牙表面微纹理的特征和颜色的基本理论,总结现阶段各学科中物体不同表面粗糙度对光反射和散射系数产生的影响,导致物体表面亮度等颜色视觉的差异以及相关表面粗糙度和颜色关系的研究成果,并归纳口腔医学领域中烤瓷修复体表面粗糙度对不同种类和色号的义齿在明度、色相和彩度等颜色参数以及颜色稳定性等方面的影响,探讨烤瓷抛光磨光器材对义齿表面微纹理的制备可能提供的技术支持,同时对研究义齿表面微纹理和颜色关系的可行性和重要性进行综述。

**关键词:** 天然牙 颜色 微纹理

**Abstract:** Light projecting to the surfaces of natural teeth results in different reflection or refraction index, which is caused by the different sizes of microstructures on the surfaces of teeth and may lead to the visual changes of teeth color. This article chiefly introduces natural microtextures of teeth and basic knowledge of colorimetry, then summaries the theoretical or experimental studies on the relationship between surface roughness of a subject and its color appearance in physical fields. With regard to porcelain denture in dentistry, it has been proved that surface microtextures of different sizes express different parameters of colorimetry, such as chroma, hue and value. The stability of denture color is also influenced. In addition, the polishing equipments used for dental restorations nowadays are developed day by day, so they can provide technical supports for making the shapes of denture surface microstructures. The purpose of this passage is to sum up the influences of surface microtextures on the color expression of porcelain dentures and to analyse the feasibility and significance of these relative studies.

**Keywords:**

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Corresponding Authors: 罗云

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