



### 牙本质小管封闭治疗牙本质过敏症的机制和效果

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### The mechanism and effect of treating dentine hypersensitivity by dentinal tubule

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摘要

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**摘要** 牙本质过敏症是由于釉质的完整性受到破坏, 造成牙本质小管暴露, 从而使牙齿对温度、化学物质和机械刺激等因素敏感的一种临床病症。其治疗的主要方法是封闭暴露的牙本质小管, 降低牙本质小管的通透性。封闭方法按机制可分为原位沉积法、氟诱导矿化法、纳米粒子填塞法、粘接覆盖法和激光熔融法等。对于这些封闭方法实验室常用的效果评价手段主要包括扫描电镜观察和牙本质渗透性检测。本文就近年来封闭牙本质小管不同方法的内在机制和效果作一综述。

**关键词:** 牙本质过敏症 牙本质小管 封闭

**Abstract:** Dentine hypersensitivity is a clinical disease caused by destruction of the integrity of enamel with exposed dentine to the environment, which leads to sharp pain when teeth are subjected to stimulus such as temperature, chemical substances and mechanical stimulus. The method for treating dentine hypersensitivity is to occlude patent dentinal tubules and reduce dentine permeability. The occlusion strategies consist of in-situ deposition, fluoride induced demineralization, nano-particle packing, bonding, laser and so on. Scanning electron microscopy (SEM) and dentine permeability test are mainly used to evaluate the effect made by these occlusion strategies *in vitro*. This review is undertaken to reveal the mechanism and effect of different treatments by varies measurements.

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