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### 细菌替代疗法与龋病

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### Bacterial replacement therapy and dental caries

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摘要

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**摘要** 机体自然菌群中的个别成员经常活跃于与其他微生物竞争的战场上，这些个别成员通常可能具有一定的致病潜能，而某些微生物或者可阻止其定植或者抑制其过度生长。长期以来，人们试图通过替代疗法干预这些细菌之间的相互作用。近期最为显著的研究是应用无致病性的变异链球菌控制龋病，应用 $\alpha$ -溶血性链球菌降低复发性中耳炎的发病率，应用唾液链球菌的效应菌株预防链球菌性咽炎。下面就替代疗法与益生菌、替代疗法原理、替代疗法与龋病、替代疗法存在的问题、替代疗法的益处、替代疗法可能存在困难和风险、替代疗法的前景作一综述。

**关键词：** 替代疗法 益生菌 龋病

**Abstract:** The individual bacterial members of our indigeneous microbiota are actively engaged in an on-going battle to prevent colonization and overgrowth of their terrain by competing microbes, some of which might have pathogenic potential for the host. Humans have attempted to intervene in these bacterial interactions for years. Recent progress is particularly evident in the application of avirulent *Streptococcus mutans* to the control of dental caries, alpha hemolytic Streptococci to reduction of otitis media recurrences and *Streptococcus salivarius* to Streptococcal pharyngitis prevention. Here we provide a summary of the application of the replacement therapy in dental caries, including the relationship between replacement therapy and probiotics, underlying principles of replacement therapy, issues still to be addressed, benefits of replacement therapy, difficulties and possible risks, and the future outlook of replacement therapy.

**Keywords:**

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