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Preliminary investigations of the colonisation of upper respiratory 

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Preliminary investigations of the colonisation of upper respiratory tract tissues of infants using a paediatric formulation of the oral probiotic *Streptococcus salivarius* K12.

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Abstract

A powder preparation of the **oral probiotic *Streptococcus salivarius* K12** has been given to 19 young otitis media-prone children following a 3-day course of amoxicillin administered as a **preliminary** to ventilation tube placement. In two subjects, the use of strain **K12** appeared to effect the expansion of an indigenous population of inhibitory *S. salivarius*. In other children, strain **K12 colonisation** extended beyond the **oral** cavity to also include the nasopharynx or adenoid tissue. The relatively low proportion (33%) of subjects that colonised was attributed to failure of the amoxicillin pre-treatment to sufficiently reduce the indigenous *S. salivarius* populations prior to dosing with strain **K12** powder.

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