

# Profil protein streptococcus mutans yang diisolasi dari permukaan lidah pasien early childhood caries = Protein profiling of streptococcus mutans isolated from tongue surface in early childhood caries patient

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## Abstrak

### <b>ABSTRAK</b><br>

Patogenesis ECC dipengaruhi oleh salah satu faktor virulensi Streptococcus mutans yang berasal dari protein S.mutans. Tujuan : Menganalisis perbedaan profil protein S.mutans diisolasi dari permukaan lidah pasien ECC dan bebas karies. Metode : Profil protein S.mutans diisolasi dari permukaan lidah diperoleh melalui metode SDS PAGE dan dibaca melalui pita protein yang terlihat pada gel poliakrilamida. Hasil : Pita protein terlihat pada gel poliakrilamida. Terlihat perbedaan frekuensi ekspresi protein S.mutans pada 13 kDa, 29 kDa, 39 kDa, 41,3 kDa, 74 kDa dan 94,5 kDa pasien ECC dan bebas karies. Kesimpulan : Terdapat perbedaan profil protein S.mutans yang diisolasi dari permukaan lidah pasien ECC dan bebas karies.

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### <b>ABSTRACT</b><br>

Pathogenesis of ECC is influenced by one of virulence factors from protein S.mutans. Objective To analyze the difference of S.mutans protein profiling which is isolated from tongue surface in ECC dan free caries subjects. Method Protein Profiling of S.mutans isolated from tongue surface was obtained from SDS PAGE method. It was read by protein band which expressed on polyacrylamide gel. Result Protein band was present on polyacrylamide gel. This study found the different frequencies in protein expression of S.mutans 13 kDa, 29 kDa, 39 kDa, 41,3 kDa, 74 kDa dan 94,5 kDa in ECC and free caries subjects. Conclusion There is difference of S.mutans protein profiling isolated from tongue surface in ECC and free caries subjects.