

Profil protein streptococcus mutans yang diisolasi dari saliva pasien early childhood caries = Protein profiling of salivary streptococcus mutans isolated from patient with early childhood caries

Atika Rahmasari, author

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Abstrak

ABSTRAK

Patogenesis ECC disebabkan sifat virulensi dari protein-protein yang menyusun sel Streptococcus mutans.

Tujuan: Mengetahui perbedaan profil protein S. mutans isolat saliva pasien ECC. Metode: Profil protein S. mutans berupa pita protein yang terlihat pada gel poliakrilamida diperoleh melalui metode SDS PAGE.

Hasil: Profil protein S. mutans diperoleh secara kualitatif melalui interpretasi pita-pita protein yang merepresentasikan berat molekul 13 kDa, 29 kDa, 39 kDa, 41,3 kDa, 74 kDa, dan 94,5 kDa dengan perbedaan frekuensi ekspresi protein pada pasien ECC dan bebas karies. Kesimpulan: Pada pasien ECC dan bebas karies ditemukan adanya perbedaan profil protein dari S. mutans isolat saliva.

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ABSTRACT

Background The pathogenesis of ECC is caused by virulence properties from proteins which construct the cell of Streptococcus mutans. Objective To find out the difference of protein profiling from salivary S.

mutans in ECC and free caries. Methods Protein profiling of salivary S. mutans appeared on polyacrilamid gel as protein bands obtained through SDS PAGE. Result The profile obtained through interpretation of protein bands represent molecular mass 13 kDa, 29 kDa, 39 kDa, 41,3 kDa, 74 kDa, and 94,5 kDa which had different frequencies in protein expression from ECC and free caries subjects. Conclusion There is difference in protein profiling of salivary S. mutans both in ECC and free caries subjects.