Efek ekstrak propolis dan permen dengan kandungan propolis terhadap pertumbuhan bakteri streptococcus sobrinus = Effect of propolis extract and propolis candies against streptococcus sobrinus

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Abstrak

Latar belakang: Streptococcus sobrinus merupakan salah satu bakteri penyebab karies. Propolis dilaporkan memiliki efek dalam menghambat pertumbuhan bakteri kariogenik.

Tujuan: Menganalisis efek ekstrak propolis dan permen mengandung propolis terhadap pertumbuhan Streptococcus sobrinus.

Metode: Streptococcus sobrinus dipaparkan terhadap ekstrak propolis dan permen dengan kandungan propolis. Kadar Hambat Minimum (KHM) dan Kadar Bunuh Minimum (KBM) ekstrak propolis diuji dengan metode spektrofotometrik serta koloni Streptococcus sobrinus dihitung dengan metode Standard Plate Counted

Hasil: nilai KHM ekstrak propolis adalah 5% dan nilai KBM adalah 10%. Jumlah koloni bakteri Streptococcus sobrinus berkurang setelah pemaparan ekstrak propolis dan permen propolis.

Kesimpulan: Ekstrak propolis dan permen dengan kandungan propolis dapat menghambat pertumbuhan bakteri Streptococcus sobrinus.
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Background: Streptococcus sobrinus is one of the etiologic agents of dental caries. Propolis has been reported to have an antibacterial activity against cariogenic bacteria.

Objective: To analyze the effect of propolis extract and propolis candies to Streptococcus sobrinus growth.

Methods: Streptococcus sobrinus were exposed to extract propolis and propolis candies. Minimim Inhibitory Concentration (MIC) and Minimum Bactericidal Concentration (MBC) were determined with spectrofotometric analysis and the Streptococcus sobrinus colonies were counted with Standard Plate Counted method.

Result: MIC was determined at 5% and the MBC at 10%. Streptococcus sobrinus colonies were decreased after exposed to propolis extract and propolis candies.

Conclusion: Propolis extract and propolis candies could inhibit the growth of Streptococcus sobrinus.