

Efek antibakteri virgin coconut oil (VCO) terhadap viabilitas bakteri kromogenik penyebab dental black stain pada anak = Antibacterial effect of virgin coconut oil (VCO) on chromogenic bacterial viability causing dental black stain in children

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Abstrak

ABSTRAK

Latar belakang: Virgin Coconut Oil VCO memiliki efek antibakteri. Tujuan: Menganalisis efek pemberian VCO berbagai konsentrasi terhadap viabilitas bakteri Actinomyces sp dan Prevotella sp. Metode penelitian: Bakteri Actinomyces sp dan Prevotella sp dipaparkan dengan VCO konsentrasi 12,5 , 25 , 50 , dan 100 . Selanjutnya dilakukan uji viabilitas dengan MTT Assay. Hasil: Penurunan viabilitas Actinomyces sp bermakna pada pemberian VCO 25 dan penurunan viabilitas Prevotella sp bermakna pada pemberian VCO 100 . Kesimpulan: Pada pemberian VCO dengan berbagai konsentrasi, penurunan viabilitas bakteri Actinomyces sp lebih besar dibandingkan dengan Prevotella sp

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ABSTRACT

Background Virgin Coconut Oil VCO has antibacterial effect. Objective To analyze effects of VCO administered in various concentrations on viability of Actinomyces sp and Prevotella sp. Methods Actinomyces sp and Prevotella sp was exposed to VCO in concentrations 12.5 , 25 , 50 and 100 . Afterwards, viability testing with MTT Assay was conducted. Results Significantly reduce viability was reached by Actinomyces sp with VCO 25 and significance was reached by Prevotella sp administering VCO 100 . Conclusion When VCO was administered in various concentrations, the decline rate in bacterial viability of Actinomyces sp was higher than Prevotella sp.