

## 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.