

Pengaruh nano silver fluoride terhadap penghambatan virulensi dan pembentukan biofilm streptococcus mutans (in vitro) = Effect of nano silver fluoride to inhibition of virulence and biofilm formation of streptococcus mutans (in vitro)

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Abstrak

Latar belakang : S. mutans merupakan patogen utama penyebab karies. NSF diketahui memiliki sifat antibakterial.

Tujuan : Menganalisis pengaruh NSF dalam menghambat virulensi dan pembentukan biofilm S. mutans.

Metode : Suspensi bakteri S. mutans dalam media BHI yang diperkaya sukrosa 0.2 dipaparkan NSF diinkubasi selama 20 jam. Persen inhibisi biofilm dinilai menggunakan uji crystal violet.

Hasil : Nilai KHM NSF adalah 2.66 dan nilai KBM 4.16 . NSF mampu menghambat pembentukan biofilm S. mutans.

Kesimpulan : NSF mampu menghambat virulensi dan pembentukan biofilm S. mutans.

.....Background: S. mutans are the primary pathogens that cause caries. NSF known to have antimicrobial properties.

Aim: To analyze the effect of NSF in inhibiting virulence and biofilm formation of S. mutans.

Methods: Bacterial suspension of S. mutans in BHI medium enriched 0.2 sucrose exposed with NSF incubated for 20 hours. Percent inhibition of biofilm was assessed using crystal violet test.

Result: NSF MIC value is 2.66 and MBC value is 4.16 . NSF is able to inhibit biofilm formation of S. mutans.

Conclusion: NSF is able to inhibit virulence and biofilm formation of S.mutans.