Brought to you by INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA



< Back to results | 1 of 1

▲ Download 日 Print 図 E-mail 習 Save to PDF ☆ Add to List More... >

Full Text

European review for medical and pharmacological sciences • Volume 26, Issue 15, Pages 5466 - 5475 • 1 August 2022

Document type

Article

Source type

Journal

ISSN

22840729

DOI

10.26355/eurrev_202208_29415

Publisher

NLM (Medline)

Original language

English

PubMed ID

35993642 🗷

View less \land

Cited by 0 documents

Inform me when this document is cited in Scopus:

Q

Set citation alert >

Related documents

Find more related documents in Scopus based on:

Authors > Keywords >

The effect of selected commercially available mouth-rinses vs. curcumin photosensitizers in an artificial mouth model mimicking their use before meals on early colonizers single species biofilm

Qamar Z. ⊠ ; Abdul N.S.; Khan T.A.; Zeeshan T.; Helal Uddin A.B.M.; Albaqawi A.H.; Almejlad N.K. E Save all to author list

^a Department of O&MFS and Diagnostic Sciences, Faculty of Dentistry, Riyadh Elm University, Riyadh, Saudi Arabia

Full text options ∨ → Export Abstract

Indexed keywords

SciVal Topics

Chemicals and CAS Registry Numbers

Abstract

OBJECTIVE: The aim of the study was to determine the bacterial-adherence to the experimental pellicle pretreated with commercially available oral-rinse/ photosensitizer (mimicking use of oral-rinse/ photosensitizer before meals). MATERIALS AND METHODS: An artificial mouth (NAM) system was used for the development of single-species biofilm (Actinomyces viscosus, Streptococcus mitis and Streptococcus sanguinis respectively). Two commercially available oral-rinses containing active ingredients [Essential oils (EO) and Chlorhexidine gluconate (CHX) were used. Curcumin photosensitizer (PS) was used as a photosensitizer against the microbes. For the adherence study, the

experimental pellicle on the beads (in the capillary tubes of the NAM system) was pretreated with the oral-rinse and photosensitizer before the inoculation of bacteria; this would resemble the use of rinse / photosensitizer before meal. The bacterial population of the biofilm was determined using serial dilution assay and expressed as colony forming unit per ml. Deionized distilled water was used in place of oral-rinse/ photosensitizer and served as a negative-control. For the qualitative study, bacterial population viewing was carried out using Scanning Electron Microscope (SEM). RESULTS: It was observed that on treatment with the oral-rinses the bacterial population of S.mitis, S.sanguinis and A.viscosus (adherence) was significantly reduced where the reduction was less for EO-based oral-rinse compared with that of CHX and curcumin PS in the following sequence EO<CHX<PS (p<0.05). CONCLUSIONS: From the results, it appears that curcumin photosensitizer and oral-rinses contain CHX to be preferably used before-meal and EO after-meal.

Indexed keywords	
SciVal Topics (i)	
Chemicals and CAS Registry Numbers	

© This record is sourced from MEDLINE/PubMed, a database of the U.S. National Library of Medicine

< Back to results | 1 of 1

∧ Top of page

About Scopus

What is Scopus

Content coverage

Scopus blog

Scopus API

Privacy matters

Language

日本語版を表示する

查看简体中文版本

查看繁體中文版本

Просмотр версии на русском языке

Customer Service

Help

Tutorials

Contact us

ELSEVIER

Terms and conditions \neg Privacy policy \neg

Copyright \bigcirc Elsevier B.V \neg . All rights reserved. Scopus[®] is a registered trademark of Elsevier B.V. We use cookies to help provide and enhance our service and tailor content. By continuing, you agree to the use of cookies \neg .



