

ANTIMICROBIAL EFFICACY OF MARINE BROWN ALGAE AGAINST ORAL PATHOGENS A REVIEW

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Received: 17 Nov 2022

Accepted: 08 Dec 2022

Published: 13 Dec 2022

ABSTRACT

Oral diseases are ubiquitous in nature. The offending cause could be bacterial, fungal, and viral, as a result of oxidative stress, as a form of inflammation or uncontrolled proliferation of cells. Extensive research and development have been invested in the efforts to remove the burden of oral lesion from the society. Marine brown algae have been used as food and for various industrial benefits. These algae have been studied to possess certain properties which make them a great candidate for medical research. The unique facets of these marine brown algae included the antibacterial, antifungal, antiviral, antioxidant, anti-inflammatory and anti-cancer properties. Numerous in vitro studies and a few in vivo studies proclaimed the success in employing these algae for medicinal and dental use. Within the dental horizon literature claimed the use of such organisms in the fight against caries and periodontal diseases, in impression materials and in the field of dental implantology. Brown algae provide a much more sustainable and naturally acquired remedy than synthetic medicines and their production.

KEYWORDS: *Marine Brown Algae, Antibacterial, Antioxidant, Antifungal, Antiviral, Herbal Medicine, Traditional Medicine*