عنوان مقاله:
The Antibacterial Effect of Turmeric aqueous extract Against Gram-positive and Gram-negative Bacteria

محل انتشار:
پنجمین کنگره بانکی شناسی پزشکی ایران (سال:1397)

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خلاصه مقاله:
Background: Turmeric (also known as Curcuma longa) is a member of the ginger family, Zingerberaceae. It is a frequently used as a spice and food flavoring throughout India, China and South East Asia. This yellow spice contains the polyphenol Curcumin in its rhizome. Curcumin ordiferuloylmethane, the major yellow bioactive component of turmeric, has been shown to have a wide spectrum of biological actions, including antimicrobial, anti-fungal, anti-inflammatory, antitumor and anti-oxidant activities. Today, compounds derived from plants such as raw extract of roots, stems, leaves and essential oils for the understanding of their medicinal properties and subsequently their use in the pharmaceutical industry are investigated. Methods: Many studies have been conducted to investigate the antimicrobial effect of turmeric aqueous extract and some of these studies have confirmed the antibacterial effect of aqueous turmeric extract. Results: The results of some studies indicate that the turmeric aqueous extract has antibacterial effect against bacteria such as Staphylococcus aureus, Staphylococcus epidermis, Pseudomonas aeruginosa, Bacillus cereus and bacteria belonging to Enterobacteriaceae family. Conclusion: Some studies have stated that turmeric aqueous extract has more inhibitory effect on gram-positive than gram-negative bacteria. The reason for this is the difference in the structure of the cell wall of the gram-positive and gram-negative bacteria. It has also been reported that turmeric aqueous extract has an inhibitory effect on bacteria with antibiotic resistance. The inhibitory effect of Turmeric aqueous extract on multiple drug-resistant bacteria such as methicillin-resistant Staphylococcus aureus has been shown in some studies.

کلمات کلیدی:
Turmeric, Antibacterial agent

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