EXTRACTION AND EVALUATION OF THE EFFECTIVENESS OF ARGEMONE MEXICAN LEAVES AS AN ANTIBACTERIAL

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Relevance. Argemon Mexicana is an annual herbaceous plant that has medicinal uses and has multiple uses. The plant extract has antimicrobial properties .The extract shows potential application in reducing bacterial infections. It was worked out due to the unavailability of pharmaceutical materials as a result of the war and the siege on the city of Taiz, and the preparation of medicines from plant extracts is considered a safer and less toxic method than chemical pharmaceutical preparations .As well as inexpensive economy boosts, local products encourage researchers to invent a new way.

The aim of the work It is to study the antimicrobial activity of Mexican Argamon leaf extract and evaluate its potential application in reducing bacterial infections . And check the effectiveness of the extract against various bacteria . In addition, the study was aimed at evaluating antifungal activity . And contribute to the understanding of the medicinal properties of argemon Mexicana and its potential use in the treatment of infections.

Analysis of the results the extract was prepared as an antimicrobial by extracting plant substances using solvents such as ethanol or methanol. The plant material was dried and then ground into a fine powder before mixing with the selected solvent. and evaporate it to obtain a concentrated extract, which can be further used for antimicrobial testing. Argemon Mexicana extract has shown antimicrobial activity against Gram-positive and Gram-negative bacteria. The antifungal activity of Mexican argemon extract against Candida was evaluated, and it was found to be effective with a 15 mm inhibition zone. And he has the ability to use it as an effective remedy for bacterial infections. The results showed that a concentration of 25 mcg / mL was active against bacteria and fungi. The study also evaluated the physical properties to assess its suitability as an antibacterial . The extract was tested against various types of microorganisms, including Gram-positive and Gram-negative bacteria, as well as fungi. Antimicrobial activity is determined by measuring the inhibition zone or the minimum inhibitory concentration (mic) of the extract.

Conclusion. In general, the results highlight the medicinal properties of argemon Mexicana and its potential application in the development of antimicrobial therapies for bacterial infections.