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Effect of hormonal imbalance on the severity of acne in adults: A Meta-Analysis

Abstract:

Acne vulgaris is a common skin condition that affects individuals of all ages, including adults. While its development involves multiple factors, hormonal influences are believed to play a significant role in the severity of acne lesions in adults. This meta-analysis seeks to examine and quantify the association between hormonal imbalance and the severity of acne in adult populations. A systematic review of the literature will be conducted to investigate the relationship between hormonal imbalances and adult acne. Secondly, a meta-analysis will be performed to determine the effect size of hormonal factors on the severity of adult acne. Lastly, potential sources of heterogeneity will be identified, and subgroup analyses will be conducted when applicable. The research questions guiding this study are whether there is a statistically significant relationship between hormonal imbalance and acne severity in adults, and whether specific hormonal factors, such as androgens or estrogens, have a more pronounced effect on acne severity in adults. The methods section outlines the planned approach for this study. A comprehensive literature search will be conducted using various databases, and eligibility criteria will be applied to select relevant studies. The expected results of this study include the identification of a significant association between hormonal imbalance and the severity of acne in adults. The findings of this study will be disseminated through peer-reviewed journals, conferences, and summaries for dermatologists and healthcare providers. In conclusion, by quantifying the impact of hormonal factors, this study contributes to a better understanding of the pathogenesis of adult acne.

Biography

Hawazin Alshanti is a final-year medical student at King Abdulaziz University. She has been actively involved in multiple research projects in the field of medicine. Hawazin's research focuses primarily on dermatology, and she has dedicated herself to investigating various aspects of skin health and diseases. Currently, Hawazin's research projects are at an exciting stage, as they are undergoing the publication process. Her findings and contributions in the field of dermatology are expected to make significant contributions to the understanding and treatment of various skin conditions.