



Beyond the Surface: A Comprehensive Approach to Acne Treatment and Care

Kassirer Goitein*

Department of Dermatology, University of Texas, USA

DESCRIPTION

Acne vulgaris, a prevalent dermatological condition affecting millions of individuals worldwide, is often dismissed as a cosmetic concern, particularly during adolescence. However, acne is a multifaceted disorder with significant psychological, social, and economic impacts. It is a condition that transcends age, affecting not only teenagers but also adults, making it a lifelong challenge for many. As our understanding of acne pathogenesis evolves, so too must our approach to its treatment. Recent advancements in research have brought new insights into the role of the microbiome, hormonal influences, and inflammation in acne development, leading to novel therapeutic strategies that promise more effective and personalized care. Acne is not just a skin condition; it is a disease that affects the whole person, often leading to significant psychological distress, including anxiety, depression, and low self-esteem. The visible nature of acne can exacerbate these issues, particularly in adolescents who are already vulnerable to social pressures. Hormonal influences are also key in acne development, particularly in adolescents and women. Androgens stimulate sebaceous gland activity, leading to increased sebum production, which is a hallmark of acne. The interplay between hormones and acne has led to the exploration of hormonal therapies, such as oral contraceptives and anti-androgens, as effective treatment options. These therapies, when appropriately used, can significantly reduce acne severity, particularly in cases linked to hormonal fluctuations. The treatment of acne has traditionally centered on a combination of topical and systemic therapies. Topical retinoids, benzoyl peroxide, and antibiotics remain the mainstays of treatment, offering varying degrees of efficacy depending on the severity of the condition. However, the rise of antibiotic resistance has prompted a re-evaluation of long-term antibiotic use in acne management. The dermatological community is increasingly advocating for the judicious use of antibiotics, reserving them for specific cases where other treatments have failed. This shift is pushing the field toward alternative therapies that are both

effective and sustainable. However, patient adherence can be a challenge due to the potential for irritation and the slow onset of improvement, which requires a commitment to long-term use. These agents offer anti-inflammatory and antimicrobial effects with a lower risk of side effects compared to traditional therapies. Additionally, the introduction of topical minocycline, a newer formulation with a reduced risk of systemic absorption, represents a promising advancement in acne treatment. Systemic treatments, including oral antibiotics, hormonal therapies, and isotretinoin, are reserved for more severe or refractory cases, particularly teratogenicity, and the need for stringent contraceptive measures in women of childbearing age, underscore the importance of a comprehensive, multidisciplinary approach to acne treatment. Therefore, a holistic approach to acne management should include psychosocial support, patient education, and lifestyle modifications. Emerging evidence suggests that diet may play a role in acne pathogenesis. High glycemic index foods, dairy products, and diets high in processed sugars have been implicated in exacerbating acne. Acne vulgaris remains one of the most common and challenging conditions in dermatology. While significant progress has been made in understanding its pathogenesis and developing effective treatments, challenges remain, particularly in the areas of antibiotic resistance, patient adherence, and the psychological impact of the disease. The future of acne treatment lies in personalized medicine, where therapies are tailored to the individual's unique hormonal, genetic, and microbiome profile. By integrating new scientific insights with a holistic approach to care, dermatologists can provide more effective and compassionate treatment for those suffering from acne.

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CONFLICT OF INTEREST

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Corresponding author Kassirer Goitein, Department of Dermatology, University of Texas, USA, E-mail: koabnin@gmail.com

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