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A Review on Erythromycin

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Abstract: *Erythromycin, a macrolide antibiotic widely used tcombat bacterial infections, has gained significant attention in dermatology for its effectiveness in treating acne vulgaris. Beyond its antibacterial activity against Propionibacterium acnes (now Cutibacterium acnes), erythromycin exhibits anti-inflammatory properties that reduce redness, swelling, and lesion formation in acne-affected skin. Formulations such as topical gels, creams, and emulsions allow localized delivery, minimizing systemic side effects while maintaining therapeutic efficacy. Recent advancements in drug delivery systems, including liposomal carriers, nanoparticles, and combination therapies, have further enhanced erythromycin's stability, penetration, and overall clinical outcomes in acne management. Understanding erythromycin's evolving role highlights its potential as a multi-functional therapeutic agent, bridging conventional antibiotic use with modern dermatological applications.*

Keywords: Erythromycin, Acne vulgaris, Macrolide antibiotic, Topical therapy, Anti-inflammatory, Drug delivery, Liposomal formulation

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