# Tazarotene 0.045% Lotion for Truncal Acne: Efficacy, Tolerability, and Spreadability

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### **SYNOPSIS**

- Truncal acne (occurring on the chest and back) is common among patients with facial acne,<sup>1-3</sup> though its pathophysiology may be somewhat different<sup>4,5</sup>
- As there are no specific guidelines for the treatment of truncal acne, facial acne treatment guidelines are often the basis for its management<sup>3</sup>
- Successful treatment of truncal acne is complicated by the involvement of a large body surface area that is typically covered in clothing<sup>3</sup>
- Topical vehicles that provide ease of spreadability, rapid cutaneous penetration/effective drug delivery, and lack of residue are highly desirable for truncal acne treatment<sup>1</sup>
- A lower-dose tazarotene 0.045% lotion formulation (Arazlo<sup>®</sup>; Ortho Dermatologics) was developed utilizing polymeric emulsion technology (Figure 1)<sup>6</sup>
- This highly spreadable lotion formulation was developed to allow for more efficient delivery of tazarotene into dermal layers
- In phase 1 studies, this lotion demonstrated low irritation/contact dermatitis potential and no allergic sensitization<sup>7</sup>

## **OBJECTIVES**

- To evaluate tazarotene 0.045% lotion on the trunk using three studies with distinct objectives:
- Study 1: summarize the efficacy, safety, and tolerability of tazarotene 0.045% lotion in the treatment of truncal acne
- Study 2: compare the irritation potential with repeated application of tazarotene 0.045% lotion and trifarotene 0.005% cream on the trunk
- Study 3: evaluate the spreadability of tazarotene 0.045% lotion and trifarotene 0.005% cream on the trunk

#### FIGURE 1. Polymeric Emulsion Technology for Tazarotene 0.045% Lotion







