**Silicone Barrier Cream in treatment of Atopic Dermatitis: A Case Report and Literature Review.** Angelina Labib, Ashley Vander Does, and Gil Yosipovitch. Dr. Phillip Frost Department of Dermatology and Cutaneous Surgery and Miami Itch Center, University of Miami Miller School of Medicine, Miami, FL, 33101 US

**Abstract:**

Background: Atopic dermatitis is a complex skin disorder that requires multidisciplinary treatment modalities to best improve the results of the condition. Although silicone formularies have been used for the treatments of wounds, ulcers, and burns, we aim to highlight a new formula combining steroids with a silicone solution for the treatment of eczema. Components of the silicone formula may enhance treatment for AD, such as in the wet pajama, and it can be a useful addition.

Methods: We present a case of AD treated with a silicone wet pajama and review the literature.

Results: The patient demonstrated an improvement in body surface area affected with AD lesions as well as a meaningful reduction in itch numerical rating score following the use of a silicone barrier cream in combination with mometasone in a wet pajama wrap for the span of 1 week.

Discussion: The patient reported an excellent response to this formula combination during an AD flare, suggesting that qualities of silicone may provide enhanced therapeutic benefit to patients with AD. We hypothesize that the efficacy of silicone lies within properties such as hydration, occlusion, sufficient oxygen permeation, anti-microbial benefits, enhanced drug delivery, and gentle physical features.