

Instant barrier repair: Investigating occlusion with a new hydro gel patch for the treatment of atopic dermatitis

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The ideal repair mechanism for overcoming barrier disruption in atopic dermatitis (AD) needs to completely eliminate microbe and allergen penetration as well as transepidermal water loss. The hydro gel patch may be an innovative approach to complete barrier repair through its innovative properties as a new, innovative occlusive dressing that consists of a water-rich hydro gel layer on an impermeable urethane backing. A 6-week pilot study with 15 AD patients, who applied the hydro gel patch over one lesion for 6-8 hours daily and triamcinolone (TAC) 0.1% cream twice daily to another lesion. Results after 2-week no treatment follow-up showed hydro gel patch had notable efficacy, and comparable to TAC 0.1% cream. Larger studies are needed to validate these promising results. In addition, although the hydro gel patch was originally designed to be used in combination with topical medications for treatment of both psoriasis and eczema, preliminary data shows that the patch is effective for eczema by itself. It is hypothesized that this may be due to "instant" repair of the defective skin barrier seen in patients with atopic dermatitis. This provides a safe, effective, non-steroidal option for patients with eczema.

Biography

Dr. Park is the Clinical Research and Phototherapy Fellow at the University of California at San Francisco (UCSF) Psoriasis Treatment Center and Phototherapy Unit of the Department of Dermatology and is experienced in both industry sponsored and investigator initiated clinical trials. Dr. Park graduated from both the University of Akron with a double major in Natural Sciences and History and the North eastern Ohio Universities College of Medicine (NEOUCOM) as in the 6-year accelerated BS/MD program. At NEOUCOM, she earned her Bioethics Certificate as part of the inaugural class of the Bioethics Certificate Program. She then completed her internship in Internal Medicine at the historic St. Vincent's Hospital Manhattan in New York as part of the hospital's final graduating class. Dr. Park is a prolific author and has published in the British Medical Journal, Cutis, Journal of Drugs and Dermatology, and Up To Date.