

## Scientific Solutions: Advancements in Topical Pedal Therapy

By Darin Brannon

**Scientific Solutions** of Carle Place, New York proudly announces innovative advancements in topical therapy, which will demonstrate immediate help to podiatric pa-

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tients in dealing with a multitude of hyperkeratotic and xerotic pedal conditions.

**Benefits of Urea:** The outermost layer of our skin functions as a protective barrier that defends the skin against pathogens and potential injuries. Adequate hydration is vital for healthy skin. Urea is a naturally occurring moisturizing factor present in our skin that helps rehydrate the skin and make it soft and well-moisturized. The loss of natural moisturizing factors makes skin dry, rough and scaly to the touch. Dry skin loses its flexibility and is prone to developing cracks which provide a gateway for bacteria, fungus or viruses to enter and cause infection and wounds. Sufficient hydration of the skin is crucial for maintaining skin integrity and defense against potential infection.

**Hydration:** Urea has the ability to retain moisture by binding to water. When urea is applied to the skin, it easily penetrates into the stratum corneum (outer layer of skin) to further enhance water absorption. Thereby, Urea improves the ability of the skin to retain water, while simultaneously balancing adequate hydration.

**Exfoliation:** At high concentrations, urea acts as a keratolytic and helps to loosen scaly, dead skin, allowing for exfoliation and improving cellular turnover.

**Protection:** By retaining moisture and enhancing the skin's regeneration process, urea strengthens the skin to fight against trauma and infections.

**Penetration:** Urea supplements skin penetration of topical medication such as corticosteroids and anti-

fungals in order to treat scaling and inflammation of the skin.

**Urea and Foot Care:** The heels and soles of the feet are prone to dryness and cracks with daily physical activities. Applying Bare Urea Gel to the feet regularly can help the skin to stay hydrated and prevent complications. It is beneficial for people with diabetes who need to maintain adequate skin hydration in order to reduce the risk of skin breakdown and infection. In addition, regular use of Moisturizing Bare Urea Gel can help reduce callus buildup and provide relief from dry and itchy skin.

## BARE MOISTURIZING UREA GEL



**Benefits of Salicylic Acid:** Applying a mild solution of Salicylic Acid directly to the skin yields many of the benefits of scrubbing, without the risk of rupturing pores or breaking tiny blood vessels. Salicylic Acid treatment, however, has many benefits that simple scrubbing does not.

Salicylic Acid is and has been for many years a podiatric workhorse. It is a great topical keratolytic emollient and comes in a variety of strengths. Salicylic Acid is used in treating plantar warts, keratosis, heloma durum, and hardened calluses. Salicylic Acid, like other keratolytic products, functions as a peel, smoothing and debriding dry skin. It helps to treat dehydrated, viral, and aging flaky conditions of the skin.

**Benefits of Hyaluronic Acid:** Hyaluronic Acid may not be the newest or flashiest ingredient out there, but it's tried and true and seriously good for your skin. First off, don't let the word "acid" fool you. Hyaluronic Acid isn't harsh or skin-stripping at all. In fact, it's the exact opposite—a powerful humectant (aka moisture-binding ingredient) that keeps skin plump and hydrated and, yes, young-looking.

Applied topically, it increases hydration, improves elasticity and also reverses free radical damage, so it may have some benefit in protecting from UV damage. Bonus? Hyaluronic Acid is one ingredient that works across the board. Every skin type, even oily, can benefit. Look for Hyaluronic Acid serums and apply alone if you have oily skin or under moisturizer if you have dry skin.

For more information, visit [www.scisologlobal.com](http://www.scisologlobal.com) or [click here](#).

