As the risk of inflammation and bacterial infection is present as result of the “itch-scratch-itch cycle”, it is recommended to use an anti-inflammatory and antimicrobial product to prevent skin damage and scar development.

One of PediaCyн’s hydrogel active ingredients is Sodium Hypochlorite (NAOCL). In a published clinical study it was found that “Sodium hypochlorite is beneficial because of its bacterial count inhibiting activities. It may be advised to every treatment in Atopic Dermatitis”**

European Academy of Dermatology and Venereology

**Topical hypochlorite products are also available as an alternative to dilute bleach baths”***

***Guidelines of care for the management of atopic dermatitis
Eichenfield et al J AM ACAD DERMATOL JULY2014

In addition PediaCyн™ contains Hypochlorous Acid (HOCL), well known for its strong antimicrobial efficiency.

Full study details upon request by calling +31 (0)475 318666

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**PediaCyн™ is the new generation of silicon based hydrogel, which also incorporates an anti-inflammatory and antimicrobial effect to treat Atopic Dermatitis.**

The gel is easy to apply to the skin and will moisture the skin. It is not sticky or has known side effects and ideal for effected areas located in the face and neck. The PediaCyн™ Atopic Dermatitis Management Hydrogel includes the following features:

- Itch reduction
- Redness reduction
- Anti-inflammatory
- Antimicrobial
- pH neutral
- Safe to use around mouth, eyes and nose
- Non-toxic and non-cytotoxic
- Non Irritating

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**Instructions for Use**

Besides the guidelines set by your health care provider, the following directions needs to be followed.

PediaCyн™ is ready for use with no mixing or dilution required

1. Clean the affected area
2. Let the skin dry. Do not rub with a towel
3. Cover the affected area with a thin layer of PediaCyн™ and gently rub until it is evenly distributed
4. Repeat 3 times daily

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**Available sizes and Product codes**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Product code</th>
<th>Product description</th>
</tr>
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<tbody>
<tr>
<td>PediaCyн™</td>
<td>47215-00</td>
<td>15 g / 24 bottles per box (individual packed)</td>
</tr>
<tr>
<td></td>
<td>47213-00</td>
<td>45 g / 24 bottles per box (individual packed)</td>
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A person with Atopic Dermatitis, also known as Atopic Eczema, suffers from super sensitive skin that itches and is extremely dry. Although the cause of Atopic Dermatitis is unknown, it is suggested that this type of Eczema is a combination of various factors like genetic, allergic factors and family history. In many patients with Atopic Dermatitis, an allergy factor like hay fever or asthma is present.

What causes the itching sensation?

In Atopic Dermatitis there is a dysfunction in the skin’s barrier function. Due to this dysfunction the skin is unable to withhold moisture which results in an extremely dry skin. This will result in itching, which is the most important fact in Atopic Dermatitis. Besides the itch sensation the skin might turn red and as the person has the tendency to scratch the effected area, consequently damage of the skin could result in inflammation and bacterial infections.

This need to scratch the effected area is published in various studies and is called the vicious “Itch-Scratch cycle”, as itch evokes the behavior of scratching. Increasing inflammation and nerve fibers stimulation, leading to more itching and scratching. (Hagermark & Wahlgren, 1995).

The itch sensation and need to scratch can have a great impact on people’s Quality of Life and can lead to depressions, agitation, sadness and many other negative effects.

Treatment of Atopic Dermatitis is focused on treating the side effects as there is no medical cure through medication to treat the cause itself.

Therefore the primary goal of a physician is to suppress the side effects to the skin and brake the “itch-scratch cycle”.

His goal will be to:

1. Heal the skin
2. Keep the skin healthy
3. Prevent infections

Healing the skin and keeping it healthy are of primary importance both in preventing further damage and enhancing the patient’s Quality Of Life.

The international guidelines to treat Atopic Dermatitis is to develop a daily skin-care routine to minimize the side effects.

Besides cleaning through lukewarm bathing, with or without soap substitutes, it is key to use a gel and/or emollient to moisture the skin and break the “Itch-Scratch cycle”.

The advantage of using a moisturizer has multiple effects:

1. It restores the skin moisture
2. It inhibits the evaporation of water
3. It increases the rate of healing
4. Establishes a barrier against further drying and irritation

Another key to protect and restore the skin is to take steps to avoid repeated skin infections caused by frequent and long scratching.

Oculus Innovative Sciences has developed the silicon based Pediacyn™ Atopic Dermatitis Management Hydrogel, formulated with the patented Microcyn® Technology which has a significant advance in the management of Atopic Dermatitis.

Microcyn® Technology has been used for a decade to treat various acute and chronic wounds and has shown to be very effective in the healing process due to its anti-inflammatory and antimicrobial effect. As a result it stimulates the body to perform its own healing process, resulting in faster tissue healing.

Clinically proven to help reduce the dryness, itching and redness associated with Atopic Dermatitis, Pediacyn™ helps softening and moisturizing the skin.

A clinical pilot study, performed by Dr. R. Smith, among 15 patients with mild to moderate Atopic Dermatitis, the treatment of Pediacyn™ in combination with an emollient was investigated. The outcome of this pilot study was:

Reduction in itch, pain, dryness, redness by 50% or more and over 60% reduction in symptoms of AD, - i.e. induration, excoriation, erythema and lichenification (a thick, leathery skin, usually the result of constant scratching and rubbing).