

# DERMALAC ZYN<sup>®</sup>



## Probiotic Solution for Pediatric Atopic Dermatitis



### Key marketing aspects

- > targeting the most frequent allergic disease in children
- > unique combination of patented probiotic strains specifically selected for the treatment of atopic dermatitis and for restoring the allergic immune system
- > plus vitamin D – health claim related to the normal function of the immune system and inflammatory response (EU No 432/2012)
- > 50% less allergy symptoms (pruritus, sleep loss, redness, swelling)
- > less emotional stress
- > alternative or add-on therapy to corticosteroids
- > clinically tested in children
- > high acceptance in children
- > pharmacy exclusive

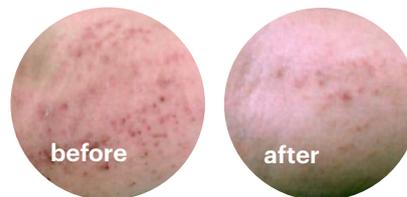
### How to use

- > lozenge: children above 3 years of age
- > sachet: children under 3 years of age
- > once a day
- > add-on to emollient & topical corticosteroids

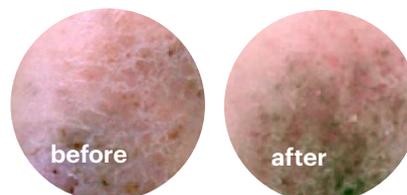
### Facts

- > randomized, placebo-controlled clinical trial (RCT) demonstrating significant reduction in clinical symptoms of atopic dermatitis in children<sup>1</sup>
- > additional 3 RCTs published demonstrating improvements of other allergy symptoms<sup>2,3,4</sup>
- > vitamin D modulates the immune response and helps alleviating symptoms of atopic dermatitis<sup>5</sup>
- > stimulating the Th1 immune response (INF- $\gamma$ )<sup>6</sup> and reducing key mediators (IL-4 & IgE) of allergic response<sup>1</sup>

DermaLacZyn<sup>®</sup>



Placebo



# DermaLacZyn® – The Leading Probiotic Solution for Atopic Dermatitis

Reducing symptoms of dermatitis from severe to mild!



## Methods

- meta analysis of probiotics for the treatment of atopic dermatitis (AD) in children
- 198 studies published between 2000 and 2017 screened for the meta analysis
- finally 13 RCTs of children below 18 years included in the Meta Analysis
- AD severity was measured with the well-established Severity Scoring of Atopic Dermatitis (SCORAD index)
- SCORAD mean difference (MD) was used to measure the efficacy of probiotics in children with AD

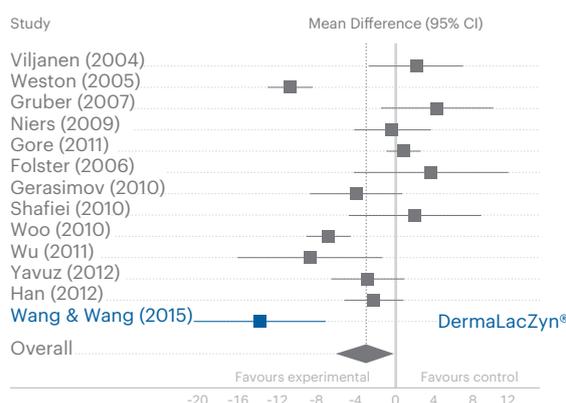
## Results

- significantly higher SCORAD values favoring *Lactobacilli* over placebo were observed
- the reported efficacy of probiotics in all RCTs was -3.07 (MD; CI: -7.45, -1.54)
- Lactobacillus rhamnosus* GG and *Lactobacillus plantarum* showed no significant effect on SCORAD values in children with AD
- DermaLacZyn® (MD -14.62; CI: -21.91, -7.33) containing *Lactobacillus paracasei* GMNL-133 was reported to be the most effective probiotic treatment for AD

## Conclusion

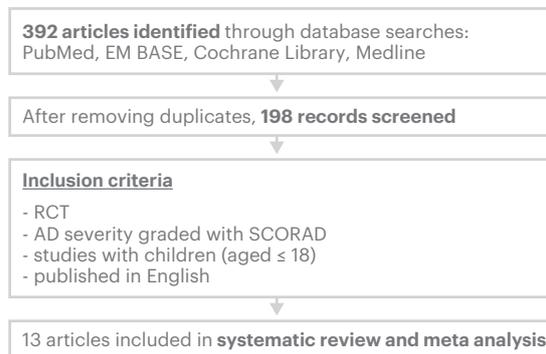
- DermaLacZyn® is the most effective probiotic for the treatment of atopic dermatitis
- DermaLacZyn® effects are four times higher than the average over all probiotics
- the superior benefits of DermaLacZyn® can be contributed to differences in the species used

## SCORAD reduction with probiotic treatment vs placebo



Source Huang et al. (2017)  
Front Cell Infect Microbiol 7:392

## Flow diagram of articles included in the meta analysis



## References

- Wang & Wang, Clin Exp Allergy (2015), 2) Costa et al., Eur J Clin Nutr (2014), 3) Peng et al., Pediatr Allergy Immunol (2005), 4) Wang et al., Pediatr Allergy Immunol (2004), 5) Mutgji & Koo, Pediatr Dermatol (2013), 6) Lu et al., EP 2,581,461B1 (2011)



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