

Dermassure Cream

Solution to the most difficult to treat rashes

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Introduction

This cream compound is composed of a combination of clinically safe "OTC" (Over The Counter) and "by prescription only" (Rx) active ingredients. The cream was originally created as an answer to the absence of a truly effective treatment for complex, often difficult to cure, rashes in premature infants who were inpatients in a level 4 Neonatal Intensive Care Unit (N.I.C.U.). During my tenure treating the neonates in Marion County, we have identified a critical need for an effective diaper rash cream to treat a very specific group of pediatric patients; infants with "Neonatal Abstinence Syndrome" (NAS), these neonates typically develop severe perianal skin erosion due to the repetitive exposure to acidic loose stools caused by the hypermotile typical of babies suffering from opiate withdrawal. The rash that develops in these infants is characteristically severe in nature, and extremely difficult to treat with the diaper rash preparations currently available to clinicians. This challenge directly prolongs the course of their clinical management because, once the perianal erosion develops, the infant's suffer severe pain every time they void or stool, and will cry uncontrollably in response, this cycle results in higher Abstinence scores, and longer hospital stays. Dermassure cream addresses the causes of this particular rash by creating an effective barrier preventing the contact of the skin to the stools or urine. The cream also treats superimposed infections (Moniliasis, Strept or Staph dermatitis) allowing faster healing of the lesions, resulting in more consistent weaning of the withdrawal medications and, therefore, shorter hospital course.

The pharmacologic properties of the ingredients in Dermassure Cream are curative for a broad spectrum of other common clinical dermatologic conditions that also can affect the elderly, those patients suffering from obesity, the diabetic, and athletes. Commonly, the rashes result from conditions that are associated with persistent moist skin resulting in the loss of skin integrity and consequently secondary skin infections by yeast (*Candida Albicans* as with the rash of *Tinea Cruris*), or of bacteria that frequently colonize the skin of humans such as: *Staphylococcus Aureus*, or *Streptococcus Pyogenes* that can be difficult to treat. These conditions as well as other less common, but also important skin rashes can be effectively prevented or treated with local application of our compound cream. The Dermassure compound was granted a patent in 2005 from the United States Patent and Trademark Office and has been extended this year.



Time lapsed photos of 5 days of therapy (photo reproduced with permission of parents for clinical use only)

These are the results over a span of 5 days of a patient who developed chemical contact dermatitis associated with loose stools resulting from a gastroenteritis. The mother of the patient had exhausted all OTC creams as well as holistic agents unsuccessfully. The patient's Pediatrician had prescribed a well known Rx cream "Balm" which also proved to be unsuccessful. The patient was totally healed within a week of using Dermassure.



These are time lapsed photos of infant with typical perianal skin breakdown of NAS. The infant was treated very effectively with the Dermassure cream over the course of 1 week. (Photos reproduced with permission).