

***AgniGel*[®]-Nursing mothers STERILE HYDROGEL DRESSINGS treatment of cracked nipple and breakage wound 180 case experience**

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Abstract purpose: Research on *AgniGel*[®]-Nursing mothers STERILE HYDROGEL DRESSINGS Treatment of nipple and therapeutic effects of damaged wounds.

Method: Under the guidance of medical personnel, In 180 cases (158 cases were unilateral, 22 cases were bilateral, Total 202)for nipple outpatients conduct *AgniGel*[®]-Nursing mothers STERILE HYDROGEL DRESSINGS external treatment. every three days follow-up examination, and record the changes and damage of local wound treatment of nipple.

Result: In all 180 patients,170 cases were healed, significantly improved in 7 cases, no improvement in 3

cases,there, is no need to stop nursing during the treatment.

Conclusion:The *AgniGel*[®]-Nursing mothers STERILE HYDROGEL DRESSINGS can promote the wound healing of cracked nipple and breakage, no need to be weaned during the treatment period,no toxic side effects for nursing infants.

[Key words]: nipple and damage、*AgniGel*[®]-Nursing mothers STERILE HYDROGEL DRESSINGS、treatment effect.

Nipple and damage occurred in lactating primiparous women, often due to improper nursing method.Because of the special location of the lesion, every time when nursing brought to his mother Sixinliefei like severe pain or suffering, In the last two years we have used TOTAL iTHALAT iHRACAT PAZARLAMA LTD.STi development *AgniGel*[®]-Nursing mothers STERILE HYDROGEL DRESSINGS go on treatment, the ideal effect is obtained. the report is as follows:

Clinical data:

1.Information: Of the 180 patients were outpatient treatment of primiparous women, 22 cases were bilateral,lesion nipple 202,all cases were diagnosed as nipple.their onset time was 3-4 weeks after delivery, are not correct nursing,time history,or when the baby sucking nipple caused by bite,local performance for the nipple surface has a size ranging from the breach or ulcer,or skin erosion,the latter is accompanied by the infiltration liquid, surrounding normal skin redness,obvious pain.some of the cracks in the base of the nipple was a ring like change,severe pain,when the pain is not the time to nurse,like a knife cut,breast abscess,but no clinical manifestations of acute mastitis, breast abscess.

2, Method: first, under the guidance of medical personnel, the church and correct the incorrect feeding method, improved baby sucking posture, do not hurt the mother's nipple, continue to be baby breast feeding,such as a single case of illness,can first never pain side of the breast feeding, patients with AgniGel[®]-Nursing mothers STERILE HYDROGEL DRESSINGS in the nipple area, during the period of

treatment is not weaned, baby sucking, remove *AgniGel*[®]-Nursing mothers STERILE HYDROGEL DRESSINGS ,After the end of the sucking *AgniGel*[®]-Nursing mothers STERILE HYDROGEL DRESSINGS paste in the nipple area.

3, Results: 202 cracked nipple,by *AgniGel*[®]-Nursing mothers STERILE HYDROGEL DRESSINGS 3 days after treatment, with exudation overflow chapped Department, the patient feels the nipple and wet comfort,pain relief or ease.with the extension of treatment time, chap basal granulation tissue growth,and gradually fill the gap chapped,the light within 1 weeks of healing, the deep cracked 10 days or 2 weeks of healing, the occurrence of no intestinal complications in infants receiving nursing.

Discussion and mechanism of action::

The survey found that 96% of lactating women will have varying degrees of nipple and breakage in breastfeeding,may only appear on the surface of the nipple,very local infiltration of blood,time does not heal repeatedly to form small ulcers,such as improper handling and easy to cause acute mastitis, especially when nursing often have piercing

pain, make the patient feel restless, extremely painful. more common in lactating women, the main reason is because the baby is sucking nipple bite, the secondary cause is other mechanical damage. nipple, when the baby sucking, feel a sharp pain, nipple bleeding, weeping, and crust. check nipple, the surface has a small cleft or ulcer is the nipple, can be one or more, two tone, the opening of the nipple can be circular or vertical. there are many tenderness chapped department, within the visible light yellow liquid or bloody liquid leakage, the trench is often found around the nipple erosion.

AgniGel[®]-Nursing mothers STERILE HYDROGEL DRESSINGS is a pure natural agar liquid polymer via electron beam link, thick 3mm, after radiation disinfection to make the product to achieve complete sterilization, with strong elasticity, 100% pure natural plant ingredients, rich in specific biological factors and water, no residue was adhered to the wound, for infants and young children without any toxic side effects, after contact with wound tissue, the exudation of the wound was concentrated into fibrin gel, Because the high concentrations of endogenous growth factors in the fibrin gel enhanced the migration of epithelial

cells moving speed, simultaneous active repair mechanism of wound tissue, can effectively promote the wound tissue cells of the epithelial process, accelerate the metabolism of epidermal cells, can start without autolysis of invasive debridement mechanism in the optimal humidity environment, protect normal granulation tissue, to remove necrotic tissue and absorb exudates from the wound, maintenance of moist healing. to maintain the best suitable level of humidity in the skin around the wound and wound area, can create a semi closed oxygen tension repair environment, can effectively promote the wound tissue of the epithelial process, accelerate the metabolism of epidermal cells, a smooth and smooth skin structure repair platform is provided. good compliance, has a strong self adhesive, anti allergy. can absorb the wound exudates, removal and decomposition of necrotic tissue. has a good one-way air valve structure, can block or filter the bacteria to penetrate into the wound tissue, prevention of exogenous infection. no toxic side effects were found in this group, many methods of clinical treatment of chapped nipple.

For example, all kinds of antibiotic ointment、 compound benzoic acid tincture、 Cod-liver oil bismuth、 Indigo ointment、

Egg yolk oil、 Raw flesh and fat and lard、 Paste etc. but these drugs can promote the skin regeneration ability is weak, and coated with a large amount of toxic chemical composition of antibiotic ointment, because of the fat soluble substances, it is very difficult to clean, extremely easy to be left in the skin around the nipple, and then in the breast feeding infants were inhaled in vivo, will cause severe drug toxicity, when the chemical composition of these chemicals is accumulated to a certain amount, in the future, it is very easy to cause the risk of neonatal gene mutation, eventually will lead to neonatal development deformity, I have used western medicine estradiol benzoate treatment of cracked nipple, although also achieved a certain effect, but to stop breastfeeding during the treatment, often with galactostasis, breast distending pain and other symptoms.

***AgniGel*[®]-Nursing mothers STERILE HYDROGEL DRESSINGS although the course of treatment requires 1-2W time, but do not need to stop breastfeeding, side effects of infant. the baby can enjoy breastfeeding, and avoid the occurrence of cracked nipples, hemorrhage, and complications of galactostasis mammitis. papillary skin is thin and tender, and there are plenty of nerve endings, once**

the skin lesions are painful, to prevent chapped nipple must master the correct nursing skills, once it occurs, it should be treated with an effective method. *AgniGel*[®] -Nursing mothers STERILE HYDROGEL DRESSINGS is to keep the wound moist physiological environment, anti-inflammatory effect, to promote the healing of lesions, qufushengji, during treatment can continue to lactation and no side reaction, So think *AgniGel*[®] -Nursing mothers STERILE HYDROGEL DRESSINGS the method is ideal, safe treatment of chapped nipple, its quality has received the EU CE certification, compared with the traditional method of antibiotic ointment and other methods to solve the neonatal drug toxicity is more safe and effective. growth of the health and safety of newborns, provided a very good security, it is economical and easy to operate.

RESOURCES:

- 1.Çetinkale O, Yara tedavisinin genel ilkeleri ve yeni yaklaşımlar, Yara Bakım ve Tedavi Kurs Kitabı, İstanbul, 200, 21-43.
2. Helfman T, Ovington L, Palanga V. Occlusive dressings

and wound healing,Clin Dermatol 1994; 12:121-127.

3. Politis M J , Zarakis MF, Miller J E , Enhanced survival of full thickness skin grafts following the application of DC electrical fields.Plast Reconst Surg 1989; 84:267-272.

4. Lawrence S C . Dressings and wound infection. Am J Surg 1994 167:1A (Suppl);21s-24s.

5. Karakayalı G, Alı N, Artüz F. Okluzif sargılar, İn: Erdem C, Çelebi RÇ(eds).Tüm yönleri ile yara iyileşmesi. Ankara: Türk Dermatopaloloji Derneği Yayınları 1996:76–83.

6. Nelson DB, Dilloway MA, Principles, products, and practical aspects of wound care, Critical Care Nursing Quarterly, 2002, 25(1):33-54.

7. Hess CT, Wound care: How to use gauze dressings, Nursing, 2000, 30(9):88.

8.Sağlıklı Cilde Yapışma Test Raporu, 31.03.2009 / Adhesion to Healthy Skin Test Report, 31.03.2009

**9.Şişme Test Raporu, 13.03.2009 / Swelling Test Report
13.03.2009**

**10. İrritasyon Testleri, Hacettepe Üniversitesi, 19.01.2009,
Rp. No:B.30.2.HAC.0.03.00.00 / Irritation tests,
Hacettepe Uni., 19.01.2009, Rp. No:
B.30.2.HAC.0.03.00.00**

**11. Havada Partikül Sayım Raporları ve Temiz Alan
Sınıflandırılması, Ege Nisan, Rp: 1-27 / Air Particles Count
Reports and Clean Room Classification, Ege Nisan, Rp:
1-27**

**12. Hızlandırılmış Yaşlandırma testleri, 03.04.2009 /
Accelerated Aging Tests, 03.04.2009**

**13. Kullanıcıların ürünler hakkındaki yazılı düşünceleri /
The written thoughts of the end users about the products
03.04.2009**

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