

Burn Wound Healing Activity of Kyuhr Herbal Cream- A Case Report

Sujay Randive^{1*}, Shivam Chaubey², Atul Sanghavi³

¹Professor, Dept. of Samhita, ²Lecturer in Agad Tantra, Shri Babusingh Jay Singh Ayurvedic Medical College and Hospital, Bhaupur, Bewar Road, Farrukhabad, U.P, India

³AVP Laboratory LLP, Mumbai, Maharashtra, India

Abstract:

Herbal medicines encompass the combination of practices of indigenous systems of medicine and several therapeutic experiences of many previous generations. Certain herbs are regarded to have anti-inflammatory, anti-septic, anti-bacterial properties. In this case study, a 32 years old male patient was having multiple bruises, blisters with burn skin lesions over chest, back and both forearms. He was presented with severe burning sensation, redness and tremendous pain over burn area. Cleaning of the burn injuries with normal saline and chlorhexidine solution was done. Then Kyuhr Herbal Cream was applied over all burn injuries with sterile gauze. The dressing was done twice in a day. After one month and ten days patient was completely recovered and healed post burn wound with minor scar and discoloration without contracture.

Key Words: Ayurveda, Aloe Vera Extracts, Burn wound, Cocos Nucifera Oil, Haridra Extracts.

Received: 20.11.2021 Revised: 21.12.2021 Accepted: 24.12.2021 Published: 25.12.2021

Quick Response code



*Corresponding Author:

Dr. Sujay Randive,

Professor, Dept. of Samhita, Shri Babusingh Jay Singh Ayurvedic Medical College and Hospital, Bhaupur, Bewar Road, Farrukhabad, U.P, India
E-mail : drsujayrandive@gmail.com

Introduction:

Herbal medicines have become a major source and main stream for future Drug. Herbal medicine-related research is important to integrate the medical and pharmacological sciences with the plant sciences including Organic Agriculture. Herbal medicine is the use of medicinal plants for prevention and treatment of disease. Herbs and their derivatives have been, and continue to be, rich sources for drug discovery. Recently, Results from several studies have indicated that patients with Different Skin Injuries are Tremendously benefited from Herbal Medicines. Certain herbs are regarded to have anti-inflammatory, anti-septic, anti-bacterial properties. Wound

Healing Properties that can reduce the symptoms of Different types of Skin Injuries and Fastens the Healing Process. In Asian herbal medicine, herbs are categorized according to their functions.

Herbal medicines encompass the combination of practices of indigenous systems of medicine and several therapeutic experiences of many previous generations. Which delivers valuable guidelines to the selection, preparation, and application of herbal formulation for the treatment, control, and management of a range of illnesses. Plant-based drugs are reported to be successfully used to cure skin diseases.

WHO Reveals that Medicinal plants, herbal raw materials, and herbal drugs is growing at annual

Growth Rate of about 15%. The increasing popularity and acceptability of herbal medicine is belief that all natural products are safe, cheaper, and commonly available. However, there are also some concerns are associated with herbal medicine regarding its pharmacognosy and standardization compared with conventional drugs. For the last two decades Research efforts have been intensified in both developed and developing countries to scientifically evaluate using clinical and validate the herbal drugs. Hence, considering the greater future perspectives in herbal medicines, we attempted to review systematically the current status of its use in treating various diseases and associated pharmacological issues. Furthermore, need for future investigations in developing herbal drug as modern therapeutic Agents is Addressed.

Herbal medicine is always defined as a therapeutic regimen that, rather than consisting of a single compound that interacts with a single target, is a concerted pharmacological intervention of several compounds that interact with multiple targets. ^[1]

Case Report:

The burn case is Brought in an emergency at OPD, A 32 years old male patient was having multiple bruises, blisters with burn skin lesions over chest, back and both forearms. He was presented with severe burning sensation, redness and tremendous pain over burn area. It was an accidental injuries due to sudden onset of fire. He was calculated with 28% of burn. (Fig-1) Patient was shifted to minor operation theater for cleaning of the burn wounds and for an emergency treatment. Patient was started with iv fluids and vedana har kashaya to relieve with pain. Injection Tetanus toxoid 0.5ml IM given to the patient.

Trial Cream: Kyuhr Herbal Cream was Provided by AVP Laboratory LLP. Govandi,

Mumbai. Details of the Ingredients are mentioned in table-1

Procedure of the Kyuhr Herbal Cream Preparation:

The require quantity of the cream was completely melt on water bath. 2% of Cocos Nucifera Oil was added with mixing. Finally 2% of *Curcuma longa* extract and 2% of *Aloe vera* extracts added and mixed well until homogeneous Cream was Obtained.

Stability Study of Kyuhr Herbal Cream:

Stability Studies were Carried out for the formulated cream at different storage conditions i.e. at 25°C and 40°C with 75% RH (Relative Humidity) and observed for a period of one month at definite time intervals. All physical and chemical tests were done for the samples weekly through one month. quality control of the final cream product evaluated for physical (Viscosity, homogeneity, grittiness, texture, Spreadability). Considering all precautions and safety hazards the packing of the final cream is in collapsible plastic tube done and preserved for circulation.

Method of dressing:

Cleaning of the burn injuries with normal saline and chiorhexidine solution was done. Then Kyuhr Herbal Cream was applied over all burn injuries with sterile gauze. Deeper burn injuries were covered with the help of sterile bandages and patient was shifted to male shalya ward from minor OT for further management. Later he was kept in special male room in isolation for dressing and hygiene purpose.

Next day onwards every day patients was treated with cleaning and washing of all burn injuries with normal saline and later on application of Kyuhr Herbal Cream twice in a day. After one month and ten days patient was completely recovered and healed post burn wound with minor scar and discoloration without contracture.

Table-1: Ingredients of Kyuhr Herbal Cream:

Sanskrit name	Botanical name	Part used	Active principles	Properties
Haridra	<i>Curcuma longa</i> L	Rhizomes	Curcumin	Wound Healing, Antibacterial
Ghrita kumari	<i>Aloe Vera</i>	Pulp	Aloin	Anti-inflammatory, Antioxidant
Narikel taila	<i>Cocos Nucifera</i>	Oil	Saturated fatty Acids	Moisturizer, Boosts Collagen Production

Clinical images:

Fig-1: first consultation on 4 August 2021

Fig-2: Status on 9 August 2021

Fig-3: Status on 21 August 2021

Fig-4: Status on 28 August 2021
Result and Discussion:

This Herbal combination have shown the amazing results in 3 to 4 day by minimizing burn sensation, reduction in pain. (Fig-2) After 7 days most of burn injuries were started

showing an improvements in burn injuries showing redness in wounds which indicates the healing is accuring and adequate blood flow with oxygen are being delivered (Fig-3). Enhancing the process of wound healing with

no side effects shown. No itching and no signs of infections over burn injuries observed in this patient after regular an application of kyuhr herbal cream (Fig-4).

This Herbal Cream can be used to prevent skin ulcers and to treat burn wounds, postoperative wounds, cracked nipples, genital herpes, psoriasis, and chronic wounds including pressure ulcers and others skin inflammatory infections.

The process of wound healing is a complex biological process and promotion of tissue recovery is the main objective of medical interventions. Skin lesions are caused due to different reasons such as burns, arterial diseases surgery, and trauma, heat wound healing is a dynamic process that takes place in three phases. The first phase is inflammation, congestion, and leukocyte infiltration. The second phase involves the removal of dead tissue and the third phase of proliferation includes epithelial regeneration and fibrous tissue formation. Several studies on Curcumin, Aloe Vera and Coconut oil have been conducted and shown to be effective in the prevention and healing of skin wounds.

Aloe vera can inhibit thromboxane (an inhibitor of wound healing), improve the wound healing process, and reduce inflammation. Curcumin and Cocos Nucifera available in the combination can prevent the production of histamine that causes itching and irritation of the skin. ^[2] It also enhances the immune system and the synthesis of cytokines. ^[3] Aloe vera is effective in inhibiting inflammatory reactions. Its regenerative properties are due to the compound glucomannan, which is rich with polysaccharides like mannose. ^[4] Glucomannan affects fibroblast growth factor receptors and stimulates their activity and proliferation, which in turn increases the production of collagen. Aloe vera gel can not only increase the amount of collagen in wounds but also change the composition of collagen, increase collagen cross-linking and thereby promote wound healing. ^[5] Scientific studies have shown

that the Hyuhr Cream can increase the flexibility and reduce the fragility. Additionally, mucopolysaccharides along with amino acids and zinc present in this combination of herbal preparation Kyuhr Cream can lead to skin integrity, moisture retention, erythema reduction, and helps to heal skin ulcers rapidly.

Conclusion:

Kyuhr Herbal Cream is much more effective and less costly compared to the currently available alternative treatments. Considering the tendency to promote traditional medicine as well as rare side effects of herbal Ingredients, the use of this Medicinal Plant Extract Preparation to improve wound healing is recommended as the complementary treatment alongside other methods.

Limitation of study:

Application of Kyuhr Herbal Cream twice in a day for 45 days for Complete re-epithelization and need to studied with this duration in more case of burn.

Patients consent:

Patient's own and relatives consent taken before commencement of Kyuhr Herbal cream applications and for publication of images without disclosing identity of an individual.

Acknowledgments:

The Team would like to thank Dr.Shailendra Yadav Sir, Dr. Sunita Yadav Madam Chairman of Shri Babusingh Jay Singh Ayurvedic Medical College and Hospital Farrukhabad U.P for the helpful discussions and Guidance Related this Subject. This work was supported by Mr. Atul Sanghavi Sir, AVP Laboratory Llp, Mumbai, India.

References:

1. Pesaramelli K, Vellanki J, Keerthi DV, Chaitanya SK. Evaluation of antibacterial activity of herbs. *Int Res J Pharm.* 2012;3:230–2.
2. Nair SS, Mathew. M, Sreena KF. Formulation and Evaluation of Herbal Cream Containing Curcuma Longa. *int.j.Pharm.chem.Sci.* 2012 ;1 (4)-1362-1368.
3. Shettar R Gaika V.G. Srivastava etc.al. Process recovery of Pure Curcumin from Turmeric Rhizomes, The Godavari Sugar Mill Limited Indian Patents: 205792:42/2008.
4. Chithra P, Sajithal GB, Chandrakasan G. Influence of *aloe vera* on collagen characteristics in healing dermal wound in rats. *Mol Cell Biochem.* 1998;181:71–6.
5. Agarry OO, Olaleye MT, Bello-Michael CO. Comparative antimicrobial activities of *Aloe vera* gel and leaf. *Afr J Biotechnol.* 2005;4:1413–4.

Guarantor: Corresponding author is guarantor of this article and its contents.

Conflict of interest: Author declares that there is no conflict of interest.

Source of support: None

How to cite this article:

Randive S, Chaubey S, Sanghavi A. Burn wound healing activity of Kyuhr Herbal Cream- A Case Report *Int. J. AYUSH CaRe.* 2021; 5(4):265-269.