

International Journal of Homoeopathic Sciences

E-ISSN: 2616-4493 P-ISSN: 2616-4485 Impact Factor (RJIF): 5.96 www.homoeopathicjournal.com IJHS 2025; 9(4): 141-144 Received: 05-07-2025 Accepted: 07-08-2025

Dr. Bhavesh Lokhande PG Scholar, GHMC Bhopal, Madhya Pradesh, India

Dr. Shobhana Shukla Professor and HOD. Department of Homoeopathic Materia Medica, GHMC Bhopal, Madhya Pradesh,

A case of sunburn treated by homoeopathic constitutional medicine natrum carbonicum: An individuality approach

Bhavesh Lokhande and Shobhana Shukla

DOI: https://www.doi.org/10.33545/26164485.2025.v9.i4.C.1900

Abstract

Sunburn is an acute inflammatory condition of the skin, primarily caused by excessive exposure to ultraviolet radiation, particularly UV-B. It presents with erythema, pain, tenderness, and, in severe cases, vesiculation and systemic symptoms. Conventional management focuses on symptomatic relief, while homeopathy provides an individualized, holistic approach. This case report discusses a 26-yearold female with acute sunburn on the left palm, presenting with erythema, burning pain, and prostration after sun exposure. Based on a detailed case history, mental generals, and physical modalities, Natrum carb 200 was prescribed, followed by placebo. The patient reported significant improvement in redness and burning within days, with complete recovery over the follow-up period. This case highlights the potential role of individualized homeopathic prescriptions in managing acute sunburn and reducing the need for conventional therapies. Further clinical studies are required to validate the broader applicability of homeopathy in such conditions.

Keywords: Sunburn, ultraviolet radiation, natrum carbonicum

Introduction

Painful skin condition is an inflammatory response of skin from over exposure to ultraviolent radiation predominantly to UV-B. Generally individual ability to tolerate sunlight is inversely proportional to that individual degree of melanin pigmentation [1]. Major component of photobiologic action spectrum that capable of affecting human skin include UV waves (200-400nm Wavelength) & visible waves (400-700nm), UV arbitrarily divided into UV-C (200-290), UV-B (290-320mm), UV-A (320-400nm). UV-B most efficient in producing sunburn in human skin thus known as Sunburn Spectrum [2]. National Survey in 2005 in U.S. showed that 34.4% of U.S. adult were sunburned in past year, Prevalence in india 65.7% of surveyed individual reported Sunburn experience in previous year, significantly higher than rate reported in USA [3, 4]. Clinical features may range from mild asymptomatic redness to on intense erythema, accompanied by tenderness, pain, edema & vesiculation, chronic effect of sun exposure can lead to wrinkling blotchines & telangiectasia as well as roughened irregular, leathery appearance & non-melanoma skin cancer [5].

This case study examines the possible efficacy of customized homeopathic therapy in treating a sunburn that was healed within a certain time frame without the need for traditional therapeutic intervention. Traditional treatment involves treating a burn of the first or second degree. One mild, individualized treatment that may help sunburn recover is homeopathy.

Risk factor [1]

- 1. Fair Skin
- Prolonged sun exposure
- Male Sex
- 4. Residence at latitudes relatively close to equator.
- Blond / Blue eyed individual

Etiology

Acton Spectrum UVB: Major Component of photobiologic action spectrum that are capable of affecting are human skin include Ultraviolet radiation of Wavelength

Corresponding Author: Dr. Bhavesh Lokhande PG Scholar, GHMC Bhopal, Madhya Pradesh, India

(200-400nm) and visible wave (400-700nm) UV-B most efficient in producing sunburn in human Skin [2].

2. Chromophore are endogenous or exogenous chemical component that can absorb physical energy [1].

Table 1: UVB radiation and chromophores are key factors in the etiology of photobiologic skin reactions.

	Endogenous		Exoger	nous	
•	Normal component of skin	•	Synthesized	elsewhere	in
-	Nucleic acid		body and cir	culate in bloo	od
-	Protein		stream & diff	fuse in skin	
•	Lipids	•	Porphyrins		
•	7 dehydrocholesterol				

This energy absorption result in generation of ROS (Ractive oxygen species) that can mediate structural damage to skin.

3. **Skin type and Sun Burns sensitivity** ^[1]: Fitzpatrick Classification - Based on epideemal melanin unit, skin burn inversely proportional to melanin pigmentation.

Table 2: The data describes the Fitzpatrick classification of skin types, showing the inverse relationship between melanin pigmentation and sunburn sensitivity.

Type	Description
I	Always burn, never tan
II	Always burn, sometimes tan
III	Sometimes burn, sometimes tan
IV	Sometimes burn, always tan
V	Never burn, sometimes tan
VI	Never burn, always tan

Pathophysiology

- Inflammatory response induced by UVR result from release of cytokine along with growth factor and generation of ROS further more UV-induced activation of nuclear factor $\alpha\beta$ dependent gene transcription can augment release of several pro-inflammatory cytokine and vasoactive mediators ^[1,7].
- These cytokine and mediator accumulate locally in Sunburned skin, provide chemotactic factor that attract neutrophil, macrophage and T-lymphocyte which promote inflammatory response.
- UVR also stimulate iinfiltration of inflammatory cell through induced expression of adhesion molecule such as E - selectin and intercellular adhesion molecule 1 on endothelial cell & keratinocytes.
- UVR also active phospholipase A2 resulting in increase in eicosanoids such as prostaglandin E2 potent inducer of sunburn erythema [1, 8].
- Keratinocytes Langerhans cell absorb UV-B and undergoes structural change in DNA (Pyrimidine bases thymine and cytosine) including formation of Cyclobutane dimers and 6, 4 photo product those changes seen in Basal and Squamous cell carcinoma [1, 9]

Clinical features [5]

- 1. Erythema (Due to vasodilation of dermal blood Vessel)
 [1] lag time usually 4-12hr between skin exposure to sunlight and development of visible redness, maximum intensity within 24hr, it declines over next 3 to 5 days
 [5]
- 2. Tenderness

- 3. Pain
- 4. Vesiculation
- 5. Necrosis and sloughing of skin (next 24-48hr)
- 6. Hyperpigmentation
- 7. Systemic sign and symptom fever, Prostration Nausea, chills and delirium may accompany severe Sunburn.
- 8. Chronic repeated sun exposure can result in BCC's and SCC's.

Diagnosis [5]

- 1. History of exposure to sunlight and. clinical features.
- 2. Histopathological examination \rightarrow
- a) Sunburn cell that are altered epidermal cell characterized by homogenous eosinophilic cytoplasm and pyknotic nuclei.
- b) Moderate vascular dilation.
- Mild perivascular mononuclear and polymorphonuclear infiltrate.

Prevention

- Natural photoprotection is provided by structural protein in epidermis particularly keratin & Melanin, individual of darker complexion (Skin type IV - VI) are at decreased risk for development of acute sunburn and cutaneous malignancy [1].
- **Clothing:** Sun protective fabrics, irrespective of colour, Wide brimmed hats, long sleeves and trousers all reduce direct exposure [1].
- Sunscreens are considered over counter drug and monograph from U.S Food and drug administration (FDA) [1].

Homeopathy and Sunburn

- Homeopathy offers a holistic and individualized approach in treatment of nburn, emphasizing not only local symptoms but also the patient's overall constitution, mental state, and general tendencies. Remedies are selected based on a detailed case history and totality of symptoms aiming to stimulate the body's innate healing mechanism.
- Safety and Efficacy: Homeopathic remedies are highly diluted and potentized, they generally safe, well-tolerated, and with minimal risk of side effects. The individualized prescription, based on the law of similar, aims to address both physical manifestations and underlying patient susceptibility.

Case

 A 26yr old femae patient visited outpatient department (OPD) presented with erythema in left palm accompanied by severe pain and burning, severe prostration from 12 hours after sun exposure symptom are alleviated by cold application locally and worsened by sun exposure.

• History of Present Complaint

- Patient was apparently well 1 day back. He had started complaining of erythema on left palm prostration, and pain and burning in affected part after sun exposure. Allopathic treatment showed no significant improvement.
- The patient also reported increased burning and pain in affected area during sun, excessive summer heat. He

had strong aversion fear milk diarrhea from it, was a hot patient thermally.

Past & Family History: History of Typhoid in 2010.
 Family history includes Father with Type 2 Diabetes Mellitus (T2DM).

Table 3: The patient presented with sun-induced erythema and burning on the left palm, aggravated by heat, with a history of typhoid and familial diabetes.

Physical General					
 Taste 	 Bitter 				
 Dislike 	■ Milk				
 Sleep 	 Wakes early in morning 				
 Dream 	■ Water				
Thermal	■ Hot				
General Examination					
 Pallor 	Present				
 Icterus 	 Absent 				
 Lymph nodes 	 Absent 				
 Blood Pressure 	100/70				
• Pulse	■ 90 b/m				
Temperature	 Afebrile 				

Particular

Skin: Skin discolouration red, spots and Skin eruption burning suggest a skin condition with redness, spots, and a burning sensation.

• Mental General

The patient is very introverted. She get difficulty to express her feelings. She is financially poor that's why feel that her friends separated her from there group and she is alone.

• Local Examination

On inspection "Multiple erythematous macules in left palm with severe burning and tenderness.

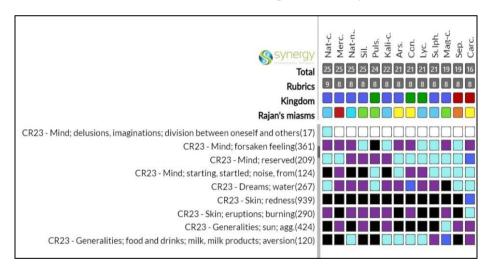
• Totality of Symptom

A list of nine specific symptoms is identified for a patient, including:h

- i Forsaken feeling
- ii Delusion: division between himself and others.
- iii Starting at slightest noise
- iv Introverted
- v Disagree milk
- vi Dreams of water
- vii Reddish discoloration on palms
- viii Burning in eruption
- ix Sunburn

Miasmatic: The miasmatic evaluation for presenting symptoms showed the predominance of Psora miasm. Considering the above totality complete repertory was preferred and software synergy homeopathic software is used. The repertorization chart is given in.

Repertorial Analysis [6]



Based on the repertorial analysis, Natrum-carb has covered the maximum (9 out of 25) followed were mercurius, natrum nitricum, silicea and pulsatilla.

Natrum-carb is also indicated as the patient hot in thermal reaction and is used in patient in which ailments from over sun exposure.

Selection of remedy with justification

After analysing the totality, Natrum - comb 200C was selected as the most appropriate constitutional remedy, the decision was reinforced by materia medica references where natrum carb aligns with patient psychological profile (Introverted forsaken) thermal modality (hot) and sunburn. A single dose of Natrum carb 200 was prescribed followed by placebo twice daily for 5 day in accordance with homeopathic principle of minimum dose and individualized prescription.



Perscription

Natrum carb 200 was prescribed followed by placebo BD for 5 days.

General Management

Avoid exposure to direct sunlight and artificial sources

of UVR [7].

- Use of sunscreen cream.
- Clothing Sun protective fabrics extra-long sleeves, trousers and Wide brimmed hat.

Table 3: Natrum carb 200 was prescribed with general sun protection measures, leading to complete relief of redness and burning within a week.

Date	Symptoms	Follow-up
28/06/2025	Improved patient Reduse redness and burning after taking medicine	R _x Placebo BD For 5 Days
01/07/2025		Rx Placebo BD For 10 Days

Discussion

This instance demonstrates how customized homeopathic prescriptions may be used to treat severe sunburn. While homeopathy takes the patient's constitutional and psychological characteristics into account when choosing a remedy, conventional therapy often concentrates on symptomatic alleviation. In this instance, the good reaction to Natrum carb demonstrates how well it fits the patient's medical problems, mental state, and thermal modality. In addition to treating the acute inflammatory symptoms, the holistic approach promoted the patient's overall health. Although the results are promising, more thorough clinical research with bigger sample sizes is required to confirm homeopathy's effectiveness in treating sunburn.

Conclusion

This instance shows how individualized homeopathic medicine with Natrum carb can minimize the need for conventional therapies while promoting an efficient recovery from severe sunburn. It emphasizes how effective patient-centered, holistic therapy can be in treating severe skin disorders.

Conflict of Interest

Not available

Financial Support

Not available

References

- Jameson JL, Fauci AS, Kasper DL, Hauser SL, Longo DL, Loscalzo J, editors. Harrison's Principles of Internal Medicine. 20th ed. New York: McGraw-Hill Education; c2018, Vol. 2.
- Khanna N. Textbook of Dermatology and Sexually Transmitted Diseases. 5th ed. New Delhi: Elsevier India; c2016.
- 3. Buller DB, Cokkinides V, Hall H, Hartman A, Saraiya M, Miller E, *et al.* Prevalence of sunburn, sun protection, and indoor tanning behaviors among Americans: Review from national surveys and case studies of 3 states. J Am Acad Dermatol. 2011;65(4 Suppl 1):S114-S123. DOI:10.1016/j.jaad.2011.05.033.
- 4. Zhao X, Jogdand Y, Sharma P, Khan S. Sun protection practices in India: Preliminary findings from a nationally representative sample. Prev Med Rep. 2023;36:102420.
- 5. Sehgal VN. Textbook of Clinical Dermatology. 4th ed.

- New Delhi: Jaypee Brothers Medical Publishers; 2016.
- 6. Synergy Homeopathic Software. Complete Repertory Digitalversion. Synergy Homeopathic; c2024.
- 7. Krutmann J. Ultraviolet A radiation-induced biological effects in human skin: relevance for photoaging and photodermatosis. J Dermatol Sci. 2000;23 Suppl 1:S22-S26
- 8. Kulms D, Schwarz T. Molecular mechanisms involved in UV-induced apoptotic cell death. Skin Pharmacol Appl Skin Physiol. 2002;15(5):342-347.
- 9. Ichihashi M, Ueda M, Budiyanto A, Bito T, Oka M, Fukunaga M, *et al.* UV-induced skin damage. Toxicology. 2003;189(1-2):21-39.

How to Cite This Article

Lokhande B, Shukla S. A case of sunburn treated by homoeopathic constitutional medicine natrum carbonicum: An individuality approach. International Journal of Homoeopathic Sciences. 2025;9(4):141-144.

Creative Commons (CC) License

This is an open access journal, and articles are distributed under the terms of the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International (CC BY-NC-SA 4.0) License, which allows others to remix, tweak, and build upon the work noncommercially, as long as appropriate credit is given and the new creations are licensed under the identical terms.