

## CASE REPORT

# Treatment of post-burn hypertrophic scar with homoeopathic medicine

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### ABSTRACT

Hypertrophic scar (HSc) is a dermal fibro proliferative disorder that occurs following trauma, inflammation, surgery, burns, and sometimes spontaneously. This is a case report of a 23 year old male with post-burn HSc after acid burn injury on his left jaw. The homoeopathic medicine *Silicea* was prescribed in 30<sup>th</sup> potency on the basis of the totality of symptoms followed by repertorization; though only three doses of *Silicea* were prescribed at baseline during the course of treatment followed by placebo, there was a marked improvement in HSc as well as in associated complaints.

**Keywords:** Burn scar, Hypertrophic scar, Homoeopathy, *Silicea*

### INTRODUCTION

Annually about two million people suffer from various modes of burn injuries worldwide, of whom more than a lakh die. In India, about 60,000 people suffer from burns annually, more than 50,000 are treated in hospitals, and about 10,000 succumb to thermal injury. Every year, a substantial proportion of deaths in India occur due to burn injuries. Prolonged morbidity as well as temporary and permanent disability due to burns results in a heavy economic loss. Scarring secondary to burns leads to a multitude of adverse medical consequences including loss of function, restriction of joint mobility, restriction of growth, altered appearance, and adverse psychological effects.<sup>[1]</sup>

HSc scarring after burns remains a major problem and is considered to be common. Although hypertrophic scarring commonly occurs following burns, many aspects such as incidence of and optimal treatment for scar hypertrophy remain unclear.<sup>[2]</sup> Pressure garments are commonly used as treatment even though there is little sound data that they reduce the prevalence or magnitude of the scarring.<sup>[3]</sup>

Homoeopathic medicines like *Arnica* and *Staphysagria* have demonstrated a significant role in wound healing and cicatrization process, concluded in a recent animal model study.<sup>[4]</sup> As per the literature available, it is seen that homoeopathic medicines had positive effects on scar resolution but the scientific studies for showing its effectiveness are rarely found. A case report of post-burn HSc is presented here with a positive effect of the homoeopathic medicine *Silicea* in reducing the HSc. This case is an attempt to document the usefulness of homoeopathic treatment in post-burn scars. An increasing number of such cases will create an adequate database to enable a well-designed research study in this area.

### CASE REPORT

A young male of 23 years of age, an unmarried cloth merchant, suffered from acid burn on the left side of the face and left shoulder seven months previously when walking on the road. It was 4.5% burn as per the past reports of the Burn Department of Safdarjung Hospital, New Delhi. He was treated by

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allopathy with minimal improvement. Subsequently, he developed HSc on the left jaw since one month. He consulted at the outpatient department of the Homoeopathic Treatment Centre, Safdarjung Hospital, New Delhi. Presenting complaints were HSc post-burn scar since one month on the left jaw with severe itching, worsening at night and during perspiration. Pain was of a stitching type along with marked redness of the region [Figure 1].

The patient had a history of pneumonia in childhood and was treated with conventional medicines. Family history revealed nothing except filariasis in his mother. The patient was thin and tall in appearance with decreased thirst and appetite. He was habitually constipated with constant desire for defaecation. During physical and systemic examination, nothing abnormal was found. He lacked confidence in his work. When angry, he threw things. He sweated profusely during the daytime specially in morning leaving white stains on his cloths; he had disturbed sleep till midnight. In general, heat aggravated the patient's symptoms.

The Vancouver Scar Scale (VSS)<sup>[5]</sup>, an internationally accepted scale for assessing scars, was used during pre and post-treatment assessment of HSc in this case. VSS [Table 1] consists of four variables: Vascularity, height (thickness), pliability, and pigmentation. In this case report, "Patient's VSS"- was used for the assessment of symptom of Itching. Each variable has four to six possible scores. The total score ranges from 0 to 16, where score 0 reflects normal skin. VSS score of this patient was 13 at baseline on October 23, 2010 and this reduced to 2 on February 4, 2011 during three months of follow-up with seven visits [Table 1].

Selection of medicine was based on totality of symptoms of the patient and the final medicine was selected after repertorization in consultation with homoeopathic materia medica. Three doses of *Silicea* 30 were prescribed the first day followed by placebo twice a day for 15 days before the first follow-up. Placebo was continued, as improvement continued after the first follow-up. The following rubrics were selected for repertorization (chart is attached in Table 2):

- MIND - ANGER - violent
- MIND - CONFIDENCE - want of self-confidence
- STOMACH - THIRSTLESS
- STOMACH - APPETITE - diminished
- RECTUM - CONSTIPATION - constant desire
- PERSPIRATION - PROFUSE - morning
- PERSPIRATION - STAINING the linen
- PERSPIRATION - ODOUR - offensive
- SLEEP - SLEEPLESSNESS - night - midnight - before
- SKIN - CICATRICES-painful-stitching
- SKIN - ITCHING - night
- SKIN - ITCHING - perspiration - agg.

## RESULTS

The patient was followed up on every 15<sup>th</sup> day and the VSS score was filled after observation of the scar and measurement of its height. The score reduced from 13 to 2 in three months of follow-up and showed 84.6% improvement (marked improvement) in the scar [Figure 2]. Follow-up schedule is shown in Table 1 as per the VSS score. This result shows the usefulness of the homoeopathic medicine *Silicea* in HSc. Redness, itching, and height of scar are reduced as shown post treatment [Figure 2] after the prescription of *Silicea* compared to the pretreatment stage [Figure 1].



Figure 1: Before the treatment



Figure 2: After the treatment

**Table 1: Follow-up chart as per vancouver scar scale**

Sign/ Symptoms	Score at entry 23-10-10	Score at follow up visits							
		2 <sup>nd</sup> visit 5-11-10	3 <sup>rd</sup> visit 20-11-10	4 <sup>th</sup> visit 5-12-10	5 <sup>th</sup> visit 15-12-10	6 <sup>th</sup> visit 30-12-10	7 <sup>th</sup> visit 4-1-11	8 <sup>th</sup> visit 15-1-11	
Pigmentation	Mixed 2	Mixed 2	Mixed 2	Hypopigmentation 1	Hypopigmentation 1	Hypopigmentation 1	Normal 0	Normal 0	
Height	2-5 mm 2	2-5 mm 2	2-5 mm 2	2-5 mm 2	<2 mm 1	<2 mm 1	Flat 0	Flat 0	
Pliability	Ropes 4	Firm 3	Yielding 2	Yielding 2	Yielding 2	Supple 1	Supple 1	Supple 1	
Vascularity	Red 2	Red 2	Red 2	Red 2	Pink 1	Pink 1	Normal 0	Normal 0	
Patient's VSS	Severe 3	Severe 3	Occasional itching 2	Occasional itching 2	Occasional itching 2	Sometimes itching 1	Sometimes itching 1	Sometimes itching 1	
Itchy sensation									
Total score	13	12	10	9	7	5	2	2	
Treatment schedule	Silicea 30 3 doses×1 day; placebo BD×15 days	Improvement started; placebo continued	Placebo BD*×15 days	Placebo BD×15 days	Placebo BD×15 days	Placebo BD×15 days	Placebo BD×15 days	Placebo BD×15 days	

\*BD: Twice daily,VSS: Vancouver Scar Scale

**Table 2: Repertorization chart**



## DISCUSSION AND CONCLUSION

It is known that *Arnica* is a useful remedy in injuries and in after effects of injuries. In the literature on burn cases, the usefulness of homoeopathic medicines like *Cantharis* and *Aconite* is found.<sup>[6]</sup> One of the studies conducted to see the effects of *Cantharis* as an analgesic in 34 cases of minor burn found that *Cantharis* was effective in alleviating pain.<sup>[7]</sup>

Strong evidence of homoeopathic treatment for HSc burn scar is not found in the literature, except in one article by Dr. Foubister, *Homoeopathy and Scar Tissue*,<sup>[8]</sup> where he discusses his experience and the comments of stalwarts in such cases. In homoeopathic materia medica, medicines like *Graphites*, *Silicea*, *Nitric acid* and so on are described for use in scar dissolution.<sup>[6]</sup>

In this case report, the patient showed improvement after the homoeopathic medicine not only in the scar but also in other associated complaints; stools became satisfactory, appetite and sleeping pattern improved, and so on. Only three doses of *Silicea* 30 were prescribed at baseline during the whole period of treatment. Pigmentation, height, vascularity, pliability, and itching of HSc improved markedly with the homoeopathic medicine.

In the conventional system, silicone gel or sheath are used for the treatment of HSc;<sup>[9]</sup> coincidentally, in this case, potentized *Silicea* was prescribed on the basis of the totality of symptoms with marked improvement. It is interesting to know that the silica as a substance is useful in HSc scar treatment in a crude form like gel as well as in homoeopathic potency. However, phases of scar evolution can be protracted, and a tremendous range exists between the time that a scar becomes hypertrophic in the first few months to the time that it completely resolves with little or no treatment.<sup>[10]</sup> In this case report also, we cannot exclude the chances of spontaneous resolution of scar or resolution due to delayed response to allopathic treatment. Though the homoeopathic treatment has shown favourable results in this case,

in the future, randomized controlled trials with larger sample size are required for validation of the effects of the homoeopathic treatment.

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**सारांश:** अति पोषणज व्रणचिह्न (एच एससी) एक त्वचीय तंतु प्रचुरोदभवी विकृति है, जो अभिघात, सूजन, शल्य चिकित्सा, जलने के पश्चात् और कभी-कभी स्वतः ही हो जाती है। यह 23 वर्ष के एक ऐसे आदमी की केस रिपोर्ट है, जिसे उसके बाएं जबड़े पर एसिड से जलने से हुई क्षति के पश्चात् एच एससी हो गए थे। संग्रह द्वारा अनुवर्तित संलक्षणों की समग्रता के आधार पर 30 की पोटेसी में होम्योपैथिक औषध सीलिसिया दी गई। हालांकि, प्लासिबो के बाद के दौरान बेसलाइन पर सीलिसिया की केवल तीन खुराक दी गई थीं परंतु एच एस सी में और इससे जुड़ी शिकायतों में अच्छा खासा सुधार पाया गया।