Resolution of Some Burn Complications by Homeopathic Medicines

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Abstract

Burn injuries often lead to contracture, hypertrophic changes and hypopigmentation, which not only cause serious disfigurement and functional impairment but are also associated with social isolation, psychosis and depression. This is largely because most of the patients particularly of developing countries could not afford the cost of the conventional sophisticated treatment schedule. Thus in this study I opted to test the efficacy of one homeopathic medicine, which is of extremely low cost, so that general population may follow this new treatment if found effective. The medicine Graphites was selected by me based on my previous experience on treatment of burn cases. This single medicine was used to treat 100 post-burn scar cases with proper case taking, consent and the Vancouver Scar Scale (VSS) scoring. During follow up of the patients, 84 patients showed significant improvement of VSS scoring followed by cure of most of the cases, while only 16 cases did not show any significant change after treatment. Thus my appeal to those patients who remain untreated due to want of money, should follow this simple treatment protocol, and I also assure them that this medicine has got no side effect.

Keywords: Post-Burn Scar; Homeopathic Medicine Graphites; A New Remedy of Burn Complications.

Introduction

In recent years survival from burn injuries has improved a lot decreasing mortality rate of about 6.0 million annually affected people from burn injury throughout the globe. However, still there is a grim scenario of the treatment results of burn complications particularly the post-burn scar [1]. Healed burn patients often have scars with varying degrees of functional and aesthetic components. Post-burn scars occur even in patients having all modern treatments because they depend upon the depth of burn injury. It is commonly found that all deeper burns (2nd degree deep dermal and full thickness) usually heal by scarring [2]. A proper understanding of the burn wound healing is necessary for appropriate management of the acute burn wound as well as preventing or minimizing the complications [3].

As there is no specific treatment of the complications of burn injury, a long term suffering is almost inevitable in all these patients with scar, hypopigmentation, contracture, hypertrophic changes, keloid formation etc. Manifold treatment modalities like massage, use of moisturizing agents, pressure garments, silicone sheeting, topical as well as parenteral steroids, and experimental therapies such as interferon, Skin grafting and different types of flaps are used for the reconstruction of contractures [4] including use of allograft acellular human dermal matrix [5] are there, but often they fail to give complete remission. Dyspigmentation like hypopigmentation in the scars due to disturbance of melanogenesis [6] as well as contractures usually lead to social humiliation and sometimes isolation of the affected person [7]. Laser therapy (vascular-specific pulsed dye laser, ablative fractional CO2 laser) is also an important step to treat hypopigmented scars where it increases pigment formation in melanosomes. However, laser therapy is a multistep and painful procedure. Surgical excision, dermabration and application of melanocytes in the affected area, application of autologous cells, adult stem cells, adipose tissue, fetal cells, embryonic stem cells, platelets, placental and amniotic fluid cells are used with variegated results [8-15]. In this study homeopathic medicines “graphites 200C” was tested to find out if there is any efficacy of it in resolution of post-burn scar. The homeopathic medicine Graphites is prepared by serially pulverizing pure graphite powder with lactose and to required ultra dilution potency of 200C. It is a simple treatment protocol, and I also assure them that this medicine has got no side effect.

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with 5 patients (Table 1) of post burn complications with this drug and the result was excellent. Then we planned a master study with 100 such patients who were with this medicine (graphites 200), along with a control group of 10 patients treated only with placebo containing the vehicle of the original medicine. Details of our findings are given in the following sections.

Materials and Methods

The Patients and the Method of Treatment

The Patients: A total of 100 patients were enrolled in this study following our Institutional Ethical Committee guidelines of inclusion and exclusion criteria. Most of them aged between 10 to 30 years (66.7%, Graph 1), with slightly higher (62%, Graph 2) partaking of female patients. There were also 10 control cases (4 male, 6 female) in this study those were given placebo and followed monthly for one year to see if there was any change. Most of them (Table 2, Graph 3) presented with deep lesions (84.6%), The Vancouver Scar Scale (VSS), an internationally accepted scale for assessing scars, was used during pre and post-treatment assessment, average scoring was 8, scoring chart of one patient (Figure 1) is given. In 56 cases (56%) there were multiple lesions and in 44 cases (44%) the lesions were single. There was gap of 6 months to 5 years after the actual burn injury when the patients intended to attend our charitable clinic. Inclusion criteria of the enrolled patients were absence of local or common systemic evidences of any other associated disease, general health parameters were within normal limits. Exclusion criteria were evidences of acute inflammation, presence of any other associated disease, general health parameters were not within normal limits and pregnancy in women subjects. Written informed consent was taken from all patients and from parents in minor subjects following the approved consent form of the Institutional Ethical Committee which given approval of this study. Follow ups of all the patients were done by consultant dermatologists attached to the medical unit who assessed the improvements and given final opinion regarding complete remission of the disease.

Medicines and Their Doses: The homeopathic medicine “Graphites 200” (ultra diluted graphite) was used for resolving the scar tissue following homeopathic Materia Medica. This medicine was selected according to clinical experience during treatment of other diseases by this medicines and observing beneficial effects of this medicine on any burn injury, if this was associated with the original disease. This medicine was prepared following Indian Pharmacopeia and was purchased from an authorized company “HAPCO” (Hahnemann Publishing Co. Pvt. Ltd, Kolkata, India). The medicine was prepared by the company according to standard procedures mentioned in Homeopathic Pharmacopoeia of India (Ministry of Health, Government of India, 1971, document 1:1). Homeopathic medicines are prepared from plants, animal tissue, microorganisms, inorganic and organic chemicals in ultra diluted concentrations. Homeopathic principle is based on the theory that bioactive potency is more in lower concentrations of matter and therefore, very small quantity would suffice to readjust altered homeostasis in human body. The homeopathic medicine Graphites is prepared by serially pulverizing pure graphite powder with lactose up to 6 dilution then with 60% Alcohol. and was given once in 2 weeks period to all the cases. This schedule of treatment was followed in all the cases irrespective of differences of age, sex, degree of lesion, because these medicines are completely free of any side effects due to ultra dilutions.

Table 1. Result of the pilot study with 5 patients, the final experiment was based on the result of this pilot study.

<table>
<thead>
<tr>
<th>Name of the patients</th>
<th>Age (yrs.)</th>
<th>Sex</th>
<th>Gap between injury date and starting of treatment</th>
<th>Lesions - Single/ Multiple</th>
<th>Earliest response (months)</th>
<th>Period of treatment (yrs)</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.C.</td>
<td>30</td>
<td>F</td>
<td>One yr 6 months</td>
<td>Single</td>
<td>After 3 months</td>
<td>1 yr</td>
<td>cured</td>
</tr>
<tr>
<td>C.P.</td>
<td>51</td>
<td>F</td>
<td>3 months</td>
<td>Single &amp; deep</td>
<td>3 months</td>
<td>½ yr</td>
<td>cured</td>
</tr>
<tr>
<td>Y. S</td>
<td>13</td>
<td>M</td>
<td>One yr</td>
<td>Multiple &amp; deep</td>
<td>4 months</td>
<td>1 yr</td>
<td>cured</td>
</tr>
<tr>
<td>I.K.</td>
<td>20</td>
<td>F</td>
<td>2 yrs</td>
<td>Multiple &amp; deep</td>
<td>2 months</td>
<td>2 yrs</td>
<td>Cured</td>
</tr>
<tr>
<td>R.M.</td>
<td>27</td>
<td>F</td>
<td>6 months</td>
<td>Multiple &amp; deep</td>
<td>1 month</td>
<td>1 yr</td>
<td>cured</td>
</tr>
</tbody>
</table>

Graph 1. Graph showing age distribution of patients.
Results

Among 100 patients there was complete remission in 84 (84%) cases. In the remaining 16 cases, there was no significant changes. After beginning of treatment earliest reaction was noted within two weeks and complete remission which was observed in 84 cases occurred in between 6 months and 4 years. One typical case with post-burn complications have been shown in serial photographs from beginning of treatment to complete recovery (Figure 1.) of which initial score was 12 but at the end of treatment it came into almost 0 level and pre-treatment post-treatment photographs of another case is also shown (Figure 2). Among 16 non respondents, 12 patients had some improvement (~30%) and remaining 4 patients did not continue treatment after second visits. In control cases the score was the same in the beginning and the end.

Discussion

A vast spectrum of injuries can occur from burn, from trivial to some severe injuries. Burn can damage multiple organs, but by far the most common organ involved is the skin. Treatment and prognosis of burn depends on depth of burn. In first degree burn only the epidermis is involved. Underlying pathology shows vasodilatation and sub-dermal edema. In second degree burn involvement of epidermis and superficial dermis is seen. Histopathology shows blister formation and necrosis of epidermis. In third and fourth (full thickness) degree burn there is both involvement of epidermis and dermis. In histological observations there are loss of epidermis, dermis and dermal appendages. They are replaced by collagen deposition and fibrosis. A heal burn patient may be left with scar and having various degree of functional and...
Figure 1. A case study of hypertrophied scar after burn injury cured by homeopathic medicine where VSS score was 12 and after treatment was '0'.

Vancouver Scar Scale (VSS score) SD, 60/F

<table>
<thead>
<tr>
<th></th>
<th>1st visit</th>
<th>3rd visit</th>
<th>4th visit</th>
<th>last visit (After one year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pigmentation</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Pliability</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Contracture</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Itching sensation</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>12</td>
<td>7</td>
<td>5</td>
<td>0</td>
</tr>
</tbody>
</table>

VSS scoring changes during treatment of SD, 60/F
Figure 2. A case study of hypertrophied scar with post burn leucoderma cured by homeopathic medicine.

<table>
<thead>
<tr>
<th>No. of Patients</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pigmentation</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Pliability</td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Contracture</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Itching sensation</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Total score</td>
<td>12</td>
<td>10</td>
<td>10</td>
<td>9</td>
<td>11</td>
<td>11</td>
<td>10</td>
<td>9</td>
<td>7</td>
<td>7</td>
</tr>
</tbody>
</table>

Result of pilot study C.P Female 51 yrs (Supplementary).

Result of pilot study R.M. Female 27 yrs (Supplementary figure)
Deep burn heals by scaring and often results in hypopigmentation, which has similar psychological impact on the patient as that of vitiligo. This not only causes severe disfigurement, at times this is associated with functional impairment as well. It has been observed that these changes can induce serious magnitude of depression. As of now surgical management in the form of tissue grafting has been accepted to treat post-burn hypopigmentation. It can be minimized by various physical therapy and plastic surgical procedure but not eliminated completely. The appearance of even the best split – skin grafted areas and the donor sites of these grafts is also a “scar” by the patients’ definition of a scar. So, surgical options are limited, expensive, and often the results are sub optimal and beyond the reach of a large number of patients affected with this. On the other hand, this study shows very encouraging results by homoeopathic medicines, which is not only cost effective but it could dissolve fibrosis and restore the pre injury status in most of the cases, thus this method of treatment is specifically effective on post burn scar and other complications of burn injury.

Acknowledgement

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References