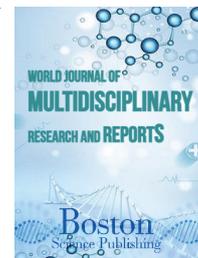




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World Journal Of Multidisciplinary Research And Reports



Management of Scorpion Sting Using Herbal Medicines



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Gawade.V.S.^{ID*}

Department of Pharmaceutical Chemistry, Dr. D.Y. Patil Institute of Pharmaceutical Sciences and Research, Pimpri, Pune 411018, India

ARTICLE INFO

Article history:

Received 03 March 2021

Accepted 05 April 2021

Revised 07 April 2021

Available online 10 April 2021

Keywords:

Traditional medicine

Scorpion sting

Ethnomedicinal herbs

ABSTRACT

Deaths associated with scorpion attack rates ranged from 3-22% worldwide. Of the 1500 species of scorpions, 50 are dangerous for humans and can cause a variety of conditions including domestic and systemic symptoms. Plant and vegetable products have added to human culture since ancient times. The people of the tribe are the custodians of different systems of traditional knowledge as well as their flowers and animals. The practices of traditional medicine and ethnobotanical data play an important role in scientific research. 80% of the world's population rely on Traditional Medicine and in India approximately 65% of people from rural areas use Ayurveda and herbal remedies to treat various ailments including acute itching. The current paper discusses the literature and reviews of various ethnomedicinal plants that have been used effectively by the nation especially in the handling of Scorpion sting cases.

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1. Introduction

Scorpion sting is a major health problem in developed countries like India. 10 were killed by the poisonous scorpion every attack. There are 1,500 species of scorpions, 50 are dangerous to humans and can cause a wide range of conditions ranging from severe local reactions to neurologic, respiratory and heart failure. Reliable statistics are not readily available for this common domestic accident [1]. Several envenomation's are also not reported sometimes the real events are unknown. An estimated 3-22% mortality rate was reported to children in hospitals due to scorpion bites in India, Saudi Arabia and South Africa. certain ailments have been popular since ancient times. This medico-lore is traditionally passed down from one generation to another throughout the world [2]. Traditional medicines they contain as active ingredients of plants, or other plant ingredients, or a combination there [3]. Nature has provided a number of plants that contain natural ingredients that promote health and reduce disease. In the history of human culture, the causes of suffering afflict the body and mind or are caused by natural and man-made events [4]. Ethnomedicine is used to refer to natural practices for the treatment and treatment of diseases and ailments using a variety of local practices made from wild products and wildlife [5]. The people of the tribe are the custodians of different systems of traditional knowledge as well as their flowers and animals [6]. Ethno-botanical research related to traditional medicine or ethno-medicine has identified about 45,000 plant species found in 550 Indian ethnic groups in 160 language groups living in different geographical

and climatic zones [7]. Details about prescriptions, pharmacy, attitude toward diagnosis etc. Of the old national medicine lies in obscurity as it can be given in writing. Over the past decades there has been an increased interest and interest in traditional use of medicine around the world [8]. According to the WHO, about 80% of the world's population rely on traditional medicine, and in India about 65% of rural people use Ayurveda and herbal remedies to treat a variety of ailments, including acne and epilepsy [9]. The purpose of this paper was therefore to review the traditional knowledge about the medicinal plants used especially in the management of Scorpion stings cases. This systematic review was conducted for the purpose of researching and evaluating traditional medicinal plants & or plant products used in the management of Scorpion sting in various ways around the world

2. Materials and Methods

All relevant articles from Ayurveda research journals, ethnomedicine, traditional medicine and other fields such as botany describing the treatment of various plants that reduce scorpion poisoning were reviewed. A short local survey of the nation was conducted in region and suburbs to inquire about the traditional medicine used in animal cases. Books written on Traditional & Ethnomedicine were also reviewed along with an Electronic Database search on PubMed and Google was under review. Following a variety of medicinal plants from a variety of plants that are highly regulated in mythological activities is found to combat Scorpion poisoning and the symptoms produced as a result.

3. Discussion

The current paper includes details of the 64 plants used traditionally on the Scorpion sting. Many of these are treated in such ways as infusions, juice, extracts, powder, paste, latex and oil. References to

* Corresponding author.

Mr. Gawade.V.S. Assistant Professor, Department of Pharmaceutical Chemistry, Dr. D.Y. Patil Institute of Pharmaceutical Sciences & Research, Pimpri, Pune 411018, India.

Mobile: +91-8830699204

E-mail address: vaibahv.gawade@dypvp.edu.in

Table 1: Plant and its treatment on scorpion stings

Sr. no	Plant	Family	Treatments
1	<i>Abrusprecatorius Linn</i>	Fabaceae	To treat scorpion stings and snake bites, root powder is taken orally with cow's milk [10].
2	<i>Achyranthes aspera L</i>	Amaranthaceae	In treatment of scorpion bite Leaves and roots are used [11-15]. The roots are crushed with two <i>Caesalpina cristata</i> seeds and applied externally to the sting section. A decoction made from 20 gm of this plant's root and 5 <i>Piper nigrum</i> is also effective [16,17].
3	<i>Adiantum venustum D. Don,</i>	Adiantaceae	Fever is treated with a frond decoction, which is also used to treat scorpion stings [18].
4	<i>Ailanthus excelsaRoxb.</i>	Simaroubaceae	To treat scorpion stings and snake bites, drink a decoction made from the leaves of <i>Aristolochia indica</i> mixed with goat's milk [19].
5	<i>Allium sativum L.</i>	Liliaceae	To reduce the poison's effect, a paste of bulblets and salts is applied to scorpion sting wounds.[20] A scorpion sting is treated with oil [21].
6	<i>Amaranthus spinosus L.</i>	Amaranthaceae	The roots are used to treat scorpion stings [22,23]. Traditionally, scorpion stings were treated with leaves [24].
7	<i>Amaranthus viridus Linn</i>	Amaranthaceae	The antidote for a scorpion sting is emollient [25-27].
8	<i>Andrographis paniculata</i>	Acanthaceae	In scorpion stings and snake bites, the leaf is ground into a paste and applied externally [28,29].
9	<i>Andrographis serpyllifolia</i>	Acanthaceae	In snake bites and scorpion bites, a paste of leaves is applied to the infected area [29].
10	<i>Anisomeles indica O. Kze</i>	Lamiaceae	In treatment of snake bites and scorpion sting the leaf paste is used [30].
11	<i>Anisomelesmalabarica</i>	Lamiaceae	The juice of the leaf, combined with water, is used to treat scorpion stings and snake bites [30].
12	<i>Anogeissus latifolia</i>	Combretaceae	In the case of a scorpion bite, a paste made of stem bark is applied externally [31]
13	<i>Argemone mexicana Linn.</i>	Papaveraceae	A scorpion bite is treated with latex [29,30]
14	<i>Aristolochiabracteolata Lam.</i>	Aristolochiaceae	In snake bites and scorpion bites, a paste of leaves is applied externally [29].
15	<i>Aristolochia indica</i>	Aristolochiaceae	Orally, the leaf juice is used to treat skin conditions and scorpionstings [29] . In scorpion stings, root powder is taken orally twice a day with hot water [29,30]. Locally, a leaf poultice is used to treat scorpion stings [32].
16	<i>Artemisia scoparia Waldst</i>	Asteraceae	The whole plant is used as a purgative and to treat burns and scorpion bites [33]. The plant's infusion is used to treat scorpion and snake bites [25].
17	<i>Biophytumpetersianum</i>	Oxalidaceae	The plant is used as an antidote for scorpion stings and snake bites in Cameroon and Mozambique [34,35].
18	<i>Biophytumsensitivum (Linn.)</i>	Oxalidaceae	Calotropis gigantean Family: Asclepiadaceae Plant extract is given orally as an antidote to snakebite and scorpion sting bite [36]. Calotropis gigantean Root paste is applied to reduce swelling caused by scorpion sting [37].
19	<i>Calotropis procera (Ait.)</i>	Asclepiadaceae	On scorpion sting wounds, latex is applied locally[20,26,32].
20	<i>Carica papaya L.</i>	Caricaceae	The scorpion sting site is treated with latex [38].
21	<i>Cassia auriculata</i>	Fabaceae	When a scorpion bites Diguvametta, the juice of freshly macerated leaves is poured into the ears [31].
22	<i>Cassia fistula L.</i>	Fabaceae	Scorpion bites are treated with a paste made from stem bark [40].
23	<i>Centropogoncornutus</i>	Campanulaceae	In the case of a scorpion bite, the leaves are used [41].
24	<i>Chloroxylon swietenia DC.</i>	Rutaceae	In the case of a scorpion bite in Isakagundam, fresh stem bark paste ground in urine is applied to the affected area [31].
25	<i>Cleome viscosa</i>	Cleomaceae	External application of leaves pastes for scorpion stings and snake bites [19].
26	<i>Clerodendrumviscosum Vent</i>	Verbenaceae	The leaf is used to treat scorpion bite infections [41].
27	<i>Coelosia argentea</i>	Amaranthaceae	On scorpion bitten area fresh leaf paste is applied externally [31].
28	<i>Cyperus rotundus L.</i>	Cyperaceae	A dried tuber paste is applied topically to the scorpion's bitten spot. [10]
29	<i>Dioscoriaoppositifolia L</i>	Dioscoreaceae	On scorpion bitten fields, powdered root mixed with cow urine is added [31].
30	<i>Ecilipta prostrate L</i>	Asteraceae	For relieve pain of scorpion sting Leaf decoction is applied on the affected area [42].
31	<i>Emblica officinalis Gaerth</i>	Phyllanthaceae	To treat scorpion sting by The leaf juice mixed with black pepper and drink [30].
32	<i>Ervatamia coronaria</i>	Apocynaceae	For antidote of scorpion sting Root & bark used. [43]
33	<i>Erythrina stricta Roxb</i>	Leguminosae	In Scorpion Sting Flowers are used [44]

34	<i>Euphorbia ligularia</i> Roxb.	Euphorbiaceae	Antidote for scorpion sting Latex of the plant is used [12,45].
35	<i>Euphorbia nivulia</i> Buch	Euphorbiaceae	antidote for scorpion sting Latex of the plant is used [12,45].
36	<i>Ficus benghalensis</i> L.	Moraceae	In scorpion sting wound condition use paste of tender leaves is applied locally over the area [20].
37	<i>Gmelina arborea</i> Roxb	Lamiaceae	In Isakagundam, fresh leaf paste is applied externally to scorpion-bitten areas [31].
38	<i>Heliotropium meichwaldi</i> Steud.	Boraginaceae	To combat scorpion bite the leaf paste is applied locally [46].
39	<i>Heliotropium indicum</i> L.	Boraginaceae	antidote for scorpion sting Leaves are use [12,47]. For treatment snake bite and scorpion sting the leaf juice mixed with hot water and applied on affected part of body [30].
40	<i>Huracrepitans</i> L.	Euphorbiaceae	Sap is applied topically in cases of scorpion sting [48]
41	<i>Madhuca indica</i> Gmel	Sapotaceae	Seed's oil – snake bite, scorpion bite [49,50].
42	<i>Madhuca latifolia</i> Roxb	Sapotaceae	Dried fruits with Ipomea stramonium (Beshram) leaves made into a paste and applied to the sting portion [16].
43	<i>Mangifera indica</i> L	Anacardiaceae	Powder of flowers is usefor the wound caused by scorpion sting [50].
44	<i>Martynia annua</i> Linn.	Pedaliaceae	for scorpion stings fruits are used. About 5 gm Seeds, And made paste by soaked in the water, used 2-3 times externally on affected area [51].
45	<i>Mesua ferrea</i> Linn.	Calophyllaceae	Against snakebite & scorpion sting Flowers and leaves are also used [43].
46	<i>Mikania micrantha</i> Linn.	Asteraceae	In insect bite and scorpion sting Juice is useful [26].
47	<i>Murayapaniculata</i> (Linn)	Rutaceae	The leaf powder, when combined with hot water, is used to treat snake bites, insect bites, scorpion stings, and skin diseases. It is also used as an antidote to poison [29].
48	<i>Nerium indicum</i> Mill	Apocynaceae	In snake bite and scorpion sting Paste of root is applied on wound [20].
49	<i>Nopaleacochinellifera</i>	Cactaceae	Used in the treatment of Scorpion sting [40].
50	<i>Nymphoideshydrophylla</i> Lour	Menyanthaceae	For antidote scorpion sting Leaf paste is used [42].
51	<i>Operculinaturpethum</i>	Convolvulaceae	In scorpion sting root purgative is prescribed [42].
52	<i>Oroxylum indicum</i> Linn.	Bignoniaceae	Stem is antidote for scorpion sting [43].
53	<i>Pinus roxburghii</i> Roxb	Pinaceae	In treatment of scorpion sting wood and Resin wood used [53,54].
54	<i>Quercus leucotrichophora</i>	Fagaceae	For the treatment of Scorpion sting Bark is used [55].
55	<i>Rhinacanthus nasutus</i> Kurz	Acanthaceae	In treatment of snake bite and scorpion sting leaf paste of the plant is use [29].
56	<i>Rosmarinus officinali</i>	Lamiaceae	Used as scorpion stingas antidote [40].
57	<i>Saracaasoca</i> Roxb.	Caesalpinaceae	In gonorrhoea & scorpion sting, bark is astringent, used in uterine inflation [41].
58	<i>Strychnos nux-vomica</i>	Loganiaceae	To treat scorpion bites, the juice extracted from the root is mixed with lime extract, thumbai (<i>Leucas aspera</i> (willd.) Link) leaves, and sivanarvembu (<i>Indigofera aspalathoides</i> Vahl.) [56].
59	<i>Strychnos potatorum</i> L.	Loganiaceae	During scorpion bite seeds paste is applied externally and is also given orally [31].
60	<i>Tamarindus indica</i>	Caesalpinioideae	In the treatment of Scorpion stings Trinidad and Tobago plant is used [40]. Make a small incision over the scorpion sting and put the cotyledon on top of it. If the toxin is removed, the patient is relieved [16].
61	<i>Tiia cora acuminata</i> (Lam)	Menispermaceae	For treat scorpion sting Root is used [57].
62	<i>Trageaplukenetii</i> R	Euphorbiaceae	For treat scorpion sting Root is used [57].
63	<i>Urginea indica</i> Kunth.	Liliaceae	In the treatment of Scorpion bite tuber is used [49,58].

these drugs can also be seen in the context of the Scorpion Sting (Vrishchika Damsha) in a manner dispersed in the Ayurvedic Classics. These remedies are readily available, common and cheap. The setup method and action mode are also simple and straightforward. Plants used by the average person against sworn oaths have been found to have significant properties. This can be considered in the critical examination and observation of ethnomedicinal plants growing in the environment. The common medicines used by the modern world of civilization were developed by the indigenous knowledge of ancient societies. Their trials and tribulations breed them. These drugs are usually prescribed individually, but can sometimes be used in combination with other herbs that have anti-Scorpion properties for a better effect. Mixing these herbs with anti-scorpion poison can also be a good idea and a question for future research.

4. Conclusion

Many herbal remedies are traditionally used in the treatment of scorpions. Although the data show the great importance of traditional knowledge in the use of medicine especially in cases of scorpion bites,

but still it should be very careful as scorpions Stings can be a painful condition and require immediate treatment such as the death of a scorpion. Rings depend on a variety of factors. Continuation of studies of these remedies on their chemical content as well the poison, if any, can help increase the effectiveness of the claims check.

Acknowledgements

None

Conflict Of Interest

Author not declare any conflict of interest

Ethical Consideration

None

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