

SAMANGADI ROPAN TAILAM- A POLYHERBAL FORMULATION FOR WOUND HEALING - A REVIEW

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ABSTRACT

Wound healing is a series of complex events starting from hemostasis to collagen remodeling. In the recent era, many formulations are available for enhancing wound- healing. Ayurvedic texts have a treasure of herbal formulations for wound healing. *Samangadi Ropan Tailam* mentioned in *Sushruta Samhita* is one of the most potent formulations for wound healing. The first ingredient of this formulation is *Samanga (Manjishtha-Dal.)* known for its magical *Vrana Ropan Guna* (wound healing). Other ingredients of this formulation are also having anti-inflammatory, analgesic, and blood purifying properties as well. This review explains the pharmacological activities of *Samangadi Ropan Tailam* in wound healing.

Keywords: wound -healing, *Samangadi Ropan Tailam*, *Ayurveda*, *Vrana- ropan*, Anti-inflammatory

INTRODUCTION

Wound healing consists of coordinated cellular and molecular event which are responsible for the repair and reconstruction of damaged tissues. Wound management is probably the major concern for today's surgeons, as the number of accidental injuries is increasing day by day. In *Ayurveda*, several preparations are mentioned for wound healing. *Sushruta Samhita* is one of the most popular texts among them. *Samangadi Ropan*

Tailam is mentioned as the best oil preparation by Acharya Sushruta. Samanga (*Manjishtha- Dal.*) is well known for its magical *Vrana Ropan Karma* in *Ayurveda*. It belongs to Rubiaceae family. It promotes wound closure and helps in new skin cell formulation. It also

has antimicrobial properties that prevents skin infections. Other ingredients of this formulation are having anti-inflammatory, antispasmodic, immunity enhancer, and astringent properties as well.

Materials and methods-

Ingredients -

Table 1: The following 11 ingredients are present in *Samangadi ropan tailam* ^[1]

S.no	Herbs	Botanical name	Family	Useful part
1.	Samanga	<i>Rubia cordifolia</i> Linn.	Rubiaceae	Root
2.	Rajani	<i>Curcuma longa</i> Linn.	Zingiberaceae	Rhizome
3.	Padma	<i>Clerodendrum serratum</i> (Linn. Moon.)	Verbenaceae	Root
4.	Haritaki	<i>Terminalia chebula</i> Retz.	Combretaceae	Fruit
5.	Bibhitaki	<i>Terminalia bellirica</i> Roxb.	Combretaceae	Fruit
6.	Amalaki	<i>Emblica officinalis</i> Gaertn.	Euphorbiaceae	Fruit
7.	Tuttha	Blue vitriol ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$)		Powdered ash
8.	Vidanga	<i>Embelia ribes</i> Burm.	Myrsinaceae	Fruit
9.	Kutaki	<i>Picrorhiza kurroa</i> Royle ex Benth	Scrophulariaceae	Root
10.	Guduchi	<i>Tinospora cordifolia</i> (Willd) Miers ex Hook. F. &Thoms.	Menispermaceae	Bark
11.	Karanja	<i>Pongamia pinnata</i> Pierre	Leguminosae	Seeds



(1) *Rubia cordifolia*



(2) *Curcuma longa*



(3) *Clerodendrum serratum*



(7) Copper sulphate



(8) *Pongamia pinnata*



(9) *Picrorhiza kurroa*



(4) *Emblica officinalis*



(5) *Terminalia bellirica*



(6) *Terminalia chebula*



(10) *Tinospora cordifolia*



(11) *Embelia ribes*



(12) *Sesamum indicum* oil

Method of preparation-

Samangadi Ropan Tailam was prepared by the *taila paka* (oil preparation) method mentioned in *Sharangdhara Samhita*. Oil is said to be prepared for use after *tail siddhi lakshnas* will appear like *Fen Shanti* (bubbles formation stops), *Shabda Virahita* (no bub-

ble sound), *Varti- vata Sneha Kalka* formation, and *Gandha-varna-rasa utpatti*.^[2]

In *Samangadi Ropan Tailam*, 11 herbs were taken in the following ratio with a base oil of *Til* (*Sesamum indicum*). This formulation was prepared in the pharmacy of the National Institute of Ayurveda Jaipur, Rajasthan.

Table 2: The ratio of different ingredients in *Samangadi Ropan Tailam*

S.No.	Ingredient	Quantity
1.	<i>Samanga (Manjishtha- Dal.)</i>	1 Part
2.	<i>Rajani (Haridra)</i>	1 Part
3.	<i>Padma (Bharangi)</i>	1 Part
4.	<i>Amalaki</i>	1 Part
5.	<i>Vibhitaki</i>	1 Part
6.	<i>Haritaki</i>	2 Part
7.	<i>Tuttha</i>	1 Part
8.	<i>Vidanga</i>	1 Part
9.	<i>Katuka</i>	1 Part
10.	<i>Guduchi</i>	1 Part
11.	<i>Karanja (Naktamal)</i>	1 Part
12.	<i>Til Tail</i>	For taila paka

Table 3: *Rasa-Panchak* of individual herb of *Samangadi Ropan Tailam*

S.No.	Ingredients	Rasa	Guna	Veerya	Vipaka	Prabhava
1.	<i>Manjishtha</i> ^[3]	<i>Kashaya, Katu, Tikta</i>	<i>Guru, Ruksha</i>	<i>Ushna</i>	<i>Katu</i>	-
2.	<i>Haridra</i> ^[4]	<i>Tikta, Katu</i>	<i>Laghu, Ruksha</i>	<i>Ushna</i>	<i>Katu</i>	-
3.	<i>Bharangi</i>	<i>Katu, Tikta, Kashaya</i>	<i>Laghu, Ruksha</i>	<i>Ushna</i>	<i>Katu</i>	-
4.	<i>Haritaki</i> ^[5]	<i>Pancharasa (lavan-rahit, Kashaya-Pradhan)</i>	<i>Laghu, Ruksha</i>	<i>Ushna</i>	<i>Madhur</i>	<i>Tridosh-har</i>
5.	<i>Vibhitaki</i> ^[6]	<i>Kashaya</i>	<i>Laghu, Ruksha</i>	<i>Ushna</i>	<i>Madhur</i>	-
6.	<i>Amalaki</i> ^[7]	<i>Pancharasa (lavan-rahit, Amla Pradhan)</i>	<i>Laghu, Ruksha, Sheeta</i>	<i>Sheeta</i>	<i>Madhur</i>	
7.	<i>Tuttha</i>	<i>Katu, Kashaya</i>	<i>Laghu, Ruksha</i>	<i>Ushna</i>	<i>Katu</i>	-
8.	<i>Vidanga</i> ^[8]	<i>katu, Kashaya</i>	<i>Laghu, Ruksha, teekshna</i>	<i>Ushna</i>	<i>Katu</i>	<i>Krimighna</i>
9.	<i>Katuka</i>	<i>Tikta</i>	<i>Laghu, Ruksha</i>	<i>Sheeta</i>	<i>Katu</i>	-
10.	<i>Guduchi</i> ^[9]	<i>Tikta, Kashaya</i>	<i>Laghu, snigdha</i>	<i>Ushna</i>	<i>Madhur</i>	<i>Vishaghna</i>
11.	<i>Karanja</i>	<i>Tikta, katu, Kashaya</i>	<i>Laghu, Teekshna</i>	<i>Ushna</i>	<i>Katu</i>	-

Properties-

Table-4: As mentioned below, most of these herbs are having tridoshahara effects as well as anti-inflammatory, hemopoietic, and analgesics properties.

S. No.	Herbs	Dosha effect	Properties /Functions
1	<i>Samanga</i>	<i>Kapha-pitta shamak</i>	Anti-inflammatory, Hemostatic ^[10]
2	<i>Rajani</i>	<i>Kapha-vatashamak, pittaghna</i>	Anti-inflammatory, Hemostatic, Analgesics, Haemopoietic, Improves circulation ^[11]
3	<i>Padma</i>	<i>Kapha-vatashamak</i>	Blood purifier, Anti-inflammatory ^[12]
4	<i>Haritaki</i>	<i>Tridoshghna (mainly- vatashamak)</i>	Anti-inflammatory, Prevents pus formation, Helps in wound healing ^[13]
5	<i>Bibhitaki</i>	<i>Tridosh shamak (mainly- kaphashamak)</i>	Anti-inflammatory, Analgesics, Hemostatic, Astringent, Intoxicant
6	<i>Amalaki</i>	<i>Tridoshahar (mainly- pittaghna)</i>	Hemostatic, Reduces burning sensation ^[14]
7	<i>Tuttha</i>	<i>Kapha-pita hara</i>	Astringent, Antimicrobial,
8	<i>Vidanga</i>	<i>Vata-kaphashamak</i>	Bactericidal, Blood- purifier Improves circulation
9	<i>Kutaki</i>	<i>Kapha-pittashodhak</i>	Anti-inflammatory, Blood-purifier, Reduces burning sensation
10	<i>Guduchi</i>	<i>Tridosha-shamak, pitta-sarak</i>	Anti-inflammatory, Anti-septic, Analgesics, Haemopoietic
11	<i>Karanja</i>	<i>Kapha-vatashamak</i>	Anti-septic, Anti-pruritic, Analgesics, Anti-parasitic, Wound healing Bactericidal ^[15]

CONCLUSION

Samangadi Ropan Tailam is one of the best polyherbal preparation for wound healing described by *Acharya Sushruta*. It contains about 11 drugs, with the base of *til taila*. As the above discussion explains that most of the drugs are *Tikta, Kashaya Rasa, Laghu Ruksha Guna, Ushna Veerya, and Katu Vipaka*. Most of the drugs have *Vrana Shodhana, Ropana, Raktastambhak, Vedanahara, Shothahara* and *Krimihara* properties. All these properties make the preparation a perfect combination for helping in stages of wound healing like-*Vrana Shodhana* property makes the wound free from debris, *Krimihara Guna* helps in removing microbial infection, *Vrana Ropana Guna* helps in wound contraction, *Shothahara Guna* decreases inflammation and *Vedanahara Guna* helps in reducing pain. The above-mentioned drugs have *Shamana* effect on all three *Doshas* i.e., *Vata, Pitta, and Kapha*, and reduce the symptoms produced by them in a *vrana* like *Vedana* (pain) by *Vata Dosha, Daha* (burning-sensation) by *Pitta Dosha, Kandu* (itching) by *Kapha Dosha, Srava* (suppuration) by any of the three *Doshas*.

Through this discussion, we can say that *Samangadi Ropan Tailam* is very much helpful for a surgeon to treat the wound. This article will be helpful for all researchers and practitioners who want to treat *Vrana* (wound).

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