

**PRELIMINARY PHARMACEUTICO-ANALYTICAL STUDY OF
SANJIVANI VATI**

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ABSTRACT

Aims and Objective: To prepare *Sanjivani Vati* for developing its preliminary profile.

Methods: *Sanjivani Vati* was prepared according to the reference Sharngadhara Samhita Madhyama Khanda 7/18-19. As we all know, *Sanjivani Vati* is Polyherbal medicine but it also contains *Vatsanabha* and *Bhallataka* which are *Visha* and *Upavisha Dravyas*. After the *Shodhana*, they can be used in the preparation of *Sanjivani Vati*. *Vatsanabha Shodhana* was done according to the reference in the classical text Rasatarangini 24/23-24. *Bhallataka Shodhana* was done according to the reference in the classical text Rasatarangini 24/23-479. Then, all the ingredients were mixed together in End Runner and continuously levigated with *Gomutra* for 6hrs. *Gumacacia* was added in amount of 10% (w/w) of the mixture. Granules were prepared from this mixture by adding Q.S. water. Dried granules were taken into Tablet making machine to prepare *Sanjivani Vati* Tablet (125mg) each. The prepared *Sanjivani Vati* was analyzed for organoleptic, physico-chemical and phytochemical parameters as per Ayurvedic Pharmacopoeia of India.

Result: Prepared *Vati* was hard, round shaped having characteristic smell of *Gomutra*. Weight loss was 69g due to the sticking of granules and binding agent. 11.87 % loss in weight of *Vati* was obtained. Organoleptic, physico-chemical and phytochemical parameters showed the characteristics features as well as present chemical components in it.

Conclusion: *Sanjivani Vati* is first time mentioned in Sharangadhara Samhita which is indicated in diseases like *Ajirna*, *Gulma*, *Visuchika*, *Sarpadansha* and *Sannipataka Jwara*. The Preparation methods and their analytical values reveal the adopting method for *Sanjivani Vati*. So, this study can be used as a base for preparing *Sanjivani Vati* on large scale production.

Keywords: *Sanjivani Vati*, *Shodhana*, *Vatsanabha*, *Bhallataka*

INTRODUCTION: *Sanjivani Vati* is Polyherbal formulation which consists of many *Darvyas* like *Vidanga*, *Shunthi*, *Pippali*, *Haritaki*, *Amalaki*, *Bibhitaki*, *Vacha*, *Guduchi*, *Vatsanabha* and

Bhallataka as their Ingredients. Firstly, *Sanjivani Vati* was mentioned in Sharngadhara Samhita Madhyama Khanda 7/18-19. *Sanjivani Vati* is useful in many diseases like *Ajirna*, *Gulma*, *Visuchika*,

Sarpadansha and *Sannipataka Jwara*.¹ Different Acharyas have mentioned different methods for *Shodhana* of *Vatsanabha* and *Bhallataka*. So, for Preparation of *Sanjivani Vati*, we have adopted *Shodhana* methods as per the reference mentioned in *Rasatarangini*. *Vatsanabha Shodhana* was done by *Godugdha*² whereas *Bhallataka Shodhana* was done by *Narikela Jala*.³ After the *Shodhana* process, *Sanjivani Vati* was prepared 125mg each tablet. Here, an attempt of Preparation of *Sanjivani Vati* was done to as to develop the standard parameters during pharmaceutical procedure and analytical parameters.

AIMS AND OBJECTIVES:

Table No. 1: Showing Ingredients used for *Sanjivani Vati*

Sr.No.	Ingredients	Latin/English Name	Part used	Quantity(g)
1	<i>Vidanga Churna</i>	<i>Embelia ribes</i> Burm.f.	Fruit	50
2	<i>Nagara Churna</i>	<i>Zingiber officinale</i> Roxb.	Rhizome	50
3	<i>Krsna Churna</i>	<i>Piper Longum</i> Linn.	Fruit	50
4	<i>Pathya Churna</i>	<i>Terminalia chebula</i> Retz.	Pericarp	50
5	<i>Amala Churna</i>	<i>Emblica officinalis</i> Gaertn.	Pericarp	50
6	<i>Bibhitaki Churna</i>	<i>Terminalia balerica</i> Roxb.	Pericarp	50
7	<i>Vacha Churna</i>	<i>Acorus calamus</i> Linn.	Rhizome	50
8	<i>Guduchi Churna</i>	<i>Tinosporia cordifolia</i> Miers.	Stem	50
9	<i>Shuddha Bhallatka Churna</i>	<i>Semecarpus anacardium</i> Linn.	Fruit	50
10	<i>Shuddha Vatsanabha Churna</i>	<i>Aconitum ferox</i> wall. ex. S. er.	Root Tuber	50
11	<i>Gomutra</i>	Cow's urine	-	1500 (ml)
12	Gum acacia	--	Binder	10% of mixture
13	<i>Jala</i>	Potable Water	-	Q.S.

Principle: *Bhavana* (Leviagtion)

Method of Preparation (Sharngadhara Samhita Madhyama Khanda 7/18-19)-

- All the mentioned ingredients (1to 10 no.) were in powdered form and mixed together in End Runner and continuously levigated with *Gomutra* for 6hrs.

- To prepare the preliminary pharmaceutical profile of *Sanjivani Vati*.
- To do the preliminary analytical parameters for *Sanjivani Vati*.

MATERIALS AND METHODS:

PHARMACEUTICAL STUDY:

Procurement of *Sanjivani Vati*:

Ingredients of *Sanjivani Vati* in powder form except *Ashuddha Vatsanabha* and *Ashuddha Bhallataka* were procured from Sundar Ayurved Pharmacy, J.S. Ayurved Mahavidyalaya, Nadiad. The Drugs were Identified and authenticated by Drugs Selection committee at J.S. Ayurved Mahavidyalaya, Nadiad.

Ingredients:

Table No. 1: Showing Ingredients used for *Sanjivani Vati*

- *Gumacacia* was added in amount of 10% (w/w) of the mixture.
- Granules were prepared from this mixture by adding Q.S. water.
- Dried granules were taken into Tablet making machine to prepare *Sanjivani Vati* Tablet (125mg) each.

OBSERVATIONS:

- Characteristic smell of *Gomutra* was felt during levigation.
- Colour of mixture was observed dark brown during levigation.

- Prepared *Vati* was hard, round shaped having characteristic smell of *Gomutra*.
- Prepared *Vati* was Light brown in colour.

RESULTS:**Table 2: Showing results in preparation during *Sanjivani Vati***

Sr. No.	Parameters	Results
1	Wt of Ingredients 1 to 10 no. (g)	500
2	<i>Gomutra</i> (ml)	1500
3	Wt after Levigations (g)	560
4	Addition of Gumacacia (g)	56
5	Total Wt of dried granules	581
6	Total Wt of <i>Vati</i> (125mg each)	512
7	Wt Loss (g)	69
8	Wt Loss (%)	11.87

PRECAUTIONS-

- Binding agent should be added in prescribed proportion(10% of mixture w/w).
- Granules should be prepared properly to get desired quality tablet.

ANALYTICAL STUDY

Sanjivani Vati was analyzed for organoleptic, physico-chemical and phytochemical parameters as per Ayurvedic Pharmacopoeia of India.⁴

Table 3: Showing Organoleptic characters of *Sanjivani Vati*

Sr. No.	Parameters	<i>Sanjivani Vati</i>
1	Colour	Light Brown
2	Touch	Rough
3	Taste	Bitter
4	Odour	Characteristic

Table 4: Showing Physicochemical parameters for *Sanjivani Vati*

Sr. No.	Parameters	<i>Sanjivani Vati</i>
1	Weight variation (%)	6.2
2	Hardness (kg/cm)	1.5
3	Friability (%)	0.93
4	Disintegration Time (min)	24

Table 5: Showing Qualitative Phytochemical parameters for *Sanjivani Vati*

Sr. No.	Parameters	<i>Sanjivani Vati</i>
1	Carbohydrate	Present
2	Protein	Present
3	Amino acid	Absent
4	Alkaloids	Present
5	Tannin	Absent
6	Saponin	Present
7	Flavonoid	Absent

8	Steroid	Present
9	Glycoside	Present

DISCUSSION: For preparation of *Sanjivani Vati* all ingredients were taken in amount of 50g and were mixed together. Then, levigated with 1500ml *Gomutra* continuously for 6 hrs. Duration for levigation was decided as per the reference of Rastantrasaar & Siddhprayoga Sangraha.⁵ The Weight after levigation was 560g due to the absorption of *Gomutra* into it. Then, addition of *Gumaacia* was 10% of the mixture i.e. for 560g addition of 56g was there. Then, Granules were prepared properly to get desired quality tablets. The Weight of dried Granules was 581g due to the evaporation of water when dried in shade. Total weight of *Vati* was 512g. Weight loss was 69g due to the sticking of granules and binding agent. 11.87 % loss in weight of *Vati* was obtained. Characteristic smell of *Gomutra* felt throughout levigation procedure. The Physico chemical profile can be compared with any other profile to mark the differences achieved by using the specific *Shodhana* methods.. The

organoleptic parameters of *Sanjivani Vati* showed light brown in colour, rough in touch and bitter in taste. It was having Characteristic odour. The value of Weight variation for *Sanjivani Vati* was 6.2%. The Hardness was 1.5kg/cm. The value of Friability was 0.93% whereas Disintegration time was 24 min. Carbohydrate, Protein, Alkaloid, Steroid, Glycoside and Saponin were present in *Sanjivani Vati* whereas Amino acid, Tannin and Flavanoid were absent. All these parameters helps to know the quality assurance of *Sanjivani Vati*.

CONCLUSION: *Sanjivani Vati* is first time mentioned in Sharangadhara Samhita which is indicated in diseases like *Ajirna*, *Gulma*, *Visuchika*, *Sarpadansha* and *Sannipataka Jwara*. The Preparation methods and their analytical values reveals the adopting method for *Sanjivani Vati*. So, this study can be used as a base for preparing *Sanjivani Vati* on large scale production.

Preparation of Sanjivani Vati

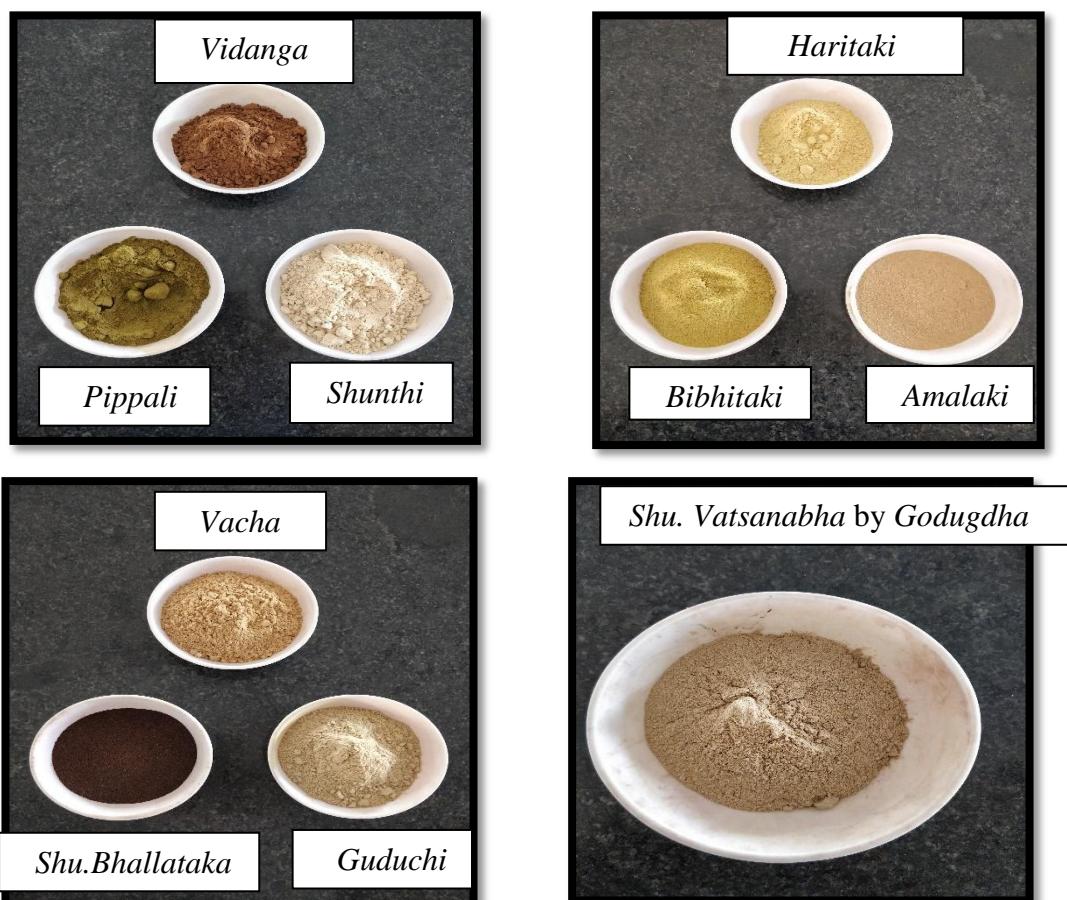


Fig.1- Ingredients of *Sanjivani Vati*



Fig.2- *Gomutra*



Fig.3- Mixing of ingredients and levigated with *Gomutra*



Fig.4- Mixing of binding agent Gum acacia



Fig.5- Preparation of Granules



Fig.6- Preparation of Tablet 125mg each



Fig.7- *Sanjivani Vati*

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Declared

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