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"Hinguleshwar rasa - pharmaceutical & analytical study"

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ABSTRACT:-

As per interesting widespread use & good clinical result, I would be interested in presenting "*Hinguleshwar Rasa"* as mentioned in "*Rasa Tarangini*". The selected topic is an attempt to study and find out the simple, effective and economic drug. Thus the present study entitled with "Pharmaceutical and Analytical Study of *Hinguleshwar Rasa*" and its study to show its efficacy & suitably utilized in patient, its excellent results determined of this kalpa which I have chosen to be my topic of presentation.

KEYWORDS: - *Rasashastra, Rasaushadhi, Rasavaidya, Hinguleshwar Rasa,Hingul, Vatsanabh, Pippali.*

INTRODUCTION: -

Aim of *Ayurved* is to prevent disease & cure disease. In *Ayurveda, Rasashatshra* is the division of preparation of the *Aushadhis* by different methods using metals, minerals in pure form and combining them with products of plant and animal origin also.

Importance of *RasaVaidya:* -

According to *Acharya Vagbhatt* there are 3 types of vaidya

1st–*Rasa vaidya (Uttam)* -Treat disease with

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Rasaushadhi
2nd–*Chikitsa Vaidya (Madhyam)*-Treat disease with *Kashtaushadhi*
3rd–*Shastra Vaidya (Adham)* -Treat disease with Surgery

Important Quality of *Rasaushadhi*:-
- Require in small quantity.
- Does not have any bad smell or taste.
- Immediate & quick in action.

The *Asadhya* or incurable disease also cured or relieved by *Rasaushadhi*, so that *Rasaushadhi* is very important still now also.

So, I would be interested in preparing *"Hinguleshwar Rasa"* as mentioned in ***"Rasatarangini"*** and to study its physical & chemical properties, its analysis, efficacy determined & later suitably utilized in patient of this kalpa which I have chosen to be my topic of research.

AIM: -

To study *Hinguleshwar Rasa* pharmaceutically and analytically.

OBJECTIVE:-

* To collect information about *Hingul, Vatsanabha* & the various methods of its *Shodhan* form *Ayurvedic* text.
*To collect information about *Pippali* from *Ayurvedic* text.
*To carry out its Pharmaceutical & Analytical study.

MATERIAL & METHOD:-

Material:-

a)Main Dravya-

- *Hingul* -- 1 Part
- *Vatsanabh* -- 1 Part
- *Pippali*-- 1 Part
- *Aadrak Swaras*--*Yathavashyak*
- *Aajadugdha* --*Yathavashyak*

b)Equipment -

- *Khalva yantra & Dola yantra,*
- Cotton cloth,
- Plates & Spoon,
- Pots,
- Electrical Weight Machine, etc

Raw material will be available from local market & authenticated according to Ayurvedic criteria & I.P. standard. All equipments, chemical necessary

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for Analytical study will be used in standard laboratories.

Method:

All pharmaceutical process will be carried out in Rasashastra Dept. of Ayurved College.

PHARMACEUTICAL STUDY :-

Shodhan of Raw material –

A) *Hingul Shodhan* [1] - Shodhan of *Hingula* will be done by 7 *Bhavna of Aardrak Swaras*

B) *Vatsanabh Shodhan* [2] - *Shodhan* of *Vatsanabh* will be done by *Dolayantra Swedan* with *Aajadugdh* .

C) Preparation of *Hinguleshwar Rasa* [3]**:-**

Preparation of *Hinguleshwar Rasa* will be done as mentioned 24th chapter 28-29th of 'Rasatarangini' in laboratory of *Rasashastra* department using the samples of *Hingul*. Procedure will be repeated thrice for each type of Shodhan.

Shuddha Hingul, Shuddha Vatsanabh, Pippali is taken in equal amount in the form of fine powder & tablets will be formed.

***Matra*:-**½*Ratti* (60mg)

Use:*AamvataShamak,Vatajwarahar*.

ANALYTICAL STUDY: -

Analytical study will be carried out of Ayurved college research laboratory & renowned chemical laboratory as per requirement.

Analytical study of *Hinguleshwar Rasa* will be designed in 2 steps.

1) Raw material Analysis.
2) Finished goods Analysis.

1. Raw material Analysis: -

Raw material analysis done before & after *Shodhan* where necessary. Identification and chemical analysis of content will be carried out.

a) *Hingula* b) *Vatsanabh* c) *Pippali*

Analysis of raw material will be carried out by two methods.

A) By Ayurvedic Method [4, 6]

- *Shabda* (sound)
- *Sparsha* (touch)
- *Rupa* (appearance)
- *Rasa* (taste)

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- *Gandha* (smell)

B) By Modern analytical tools [5]

- TLC
- Loss on drying
- Ash Value- i) Total Ash value
  ii) Water soluble ash
  iii) Acid insoluble ash
- pH value

Sr No	Samples	Varna	Sparsha	Gandha
1	*Hingul (A)*	Dark Orange	Slight rough	Non specific
2	*Hingul (S)*	Dark reddish brown	Smooth,fine	Slight acidic
3	*Vatsanabha (A)*	Black brownish	Smooth,fine	Ugra gandh
4	*Vatsanabha (S)*	Cream color	Smooth,fine	Gomutragandhi
5	*Pippali*	Dark Greenish brown	Wrinkled skin.	Aromatic
6	*Hinguleshwar Rasa*	Light black	Smooth,fine	Odorless

Raw material Analysis Reports

Tests	Vatsanabh (A)	Vatsanabh (S)	Hingul (A)	Hingul (S)	Pippali
pH	6.08	6.45	6.88	5.94	6.86
Moisture Content	9.64%	12.78%	1.08%	1.22%	6.45
Acid insoluble Ash	1.24%	1.38	0.32%	0.18%	0.2%
Total Ash	4.93%	5.11%	1.65%	1.02%	4.38
TLC (Rf value)	0.11 0.21 0.39	0.11 0.21 0.40	- - -	- - -	0.14 0.25 0.40
Murcury content	-	-	54.22%	52.18%	-

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Sulfur Content	-	-	14.68%	12.66%	-

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2. Finished goods Analysis: -

Analysis of *Hinguleshwar Rasa* will be carried out by two Methods.

A) By Ayurvedic Method [4,6] **-**

- *Shabda* (sound)
- *Sparsha* (touch)
- *Rupa* (appearance)
- *Rasa* (taste)
- *Gandha* (smell)

B) By Modern analytical tools [5]**:-**

Physical Test -

- TLC
- Moisture content (loss on drying)
- Ash Value----i) Total Ash value
  ii) Water soluble ash
  iii) Acid insoluble ash
- Extractive values
  i) Water soluble extract
  ii) Alcohol soluble extract
- pH and Conductivity
- Specific gravity
- Particle size
- Atomic absorption spectrophotometry
- Tests For Tablets-
  i) Disintegration time
  ii) Hardness

Chemical Analysis -

- Alkaloid, Glycosides content etc.

Heavy metal test:-

- Estimation of Mercury
- Estimation of Sulphur

Finished goods Analysis Report

Name Of Parameter	Result of Hinguleshwar Tablet
Appearance	Slightly crimsons Red
Odour/ Taste	Strong / Bitter
Moisture Content	1.3%

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Ash Content	1.11%
Acid Insoluble Ash	0.16%
Mercury Content	22.56%
Sulfur Content	18.39%
Average Diameter	0.250 cm
Average Length	0.674 cm
Average Weight	119 mg
Friability	2.2
Hardness	<1 Kg/cm2
Disintegration Time	5 min

DISCUSSION:-

1.*Hinguleshwar Rasa* :

Physico-chemical Analysis like
Loss on drying - 4.02%,
Total Ash shows - 7.82%
Acid Insoluble Ash was - 3.94%,
Water Soluble Extractive 18.2%,

Alcohol Soluble Extractive 16.81%, and pH 8.82,Physical analysis like
Diameter - 0.5cm, Thickness - 0.2cm,
Bulk density - 0.8629 gms / cm2.

2. Marker components of *Hinguleshwar Rasa* as Alkaloids, Terpenoids, Steroids, Reducing sugars and Glycosides were present.

3. Quantitatively *Hinguleshwar Rasa* Contains Hg-13.59%, S-14.80%, Ca–0.82%, Na–3.87% and K-0.21%

CONCLUSION :-

->*Khalvi rasayana* method is basic procedure applicable to all *Rasoushadhis,* before subjecting to various specific procedures.

->*Hinguleshwar rasa* was prepared by classical *Khalvi rasayana* method.

-> It can be conclude that the prepared *Hinguleshwar rasa* is pure, safe and within predetermined range.

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CONTRIBUTION:-

- Pharmaceutical and analytical data of *Hinguleshwar Rasa* will be available.
- Further comparative, in vivo experiment with other *"Patha"* of *Hinguleshwar Rasa* would be initiated.
- Further clinical study of *Hinguleshwar Rasa* would be initiated.

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