

A white ceramic mortar and pestle is centered in the image, resting on a dark wooden surface. The mortar is a shallow, wide bowl, and the pestle is a long, tapered rod with a rounded end, positioned diagonally across the mortar. The text is overlaid on the image in a bright yellow, serif font.

Kharaliya Rasayana

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Introduction

A white mortar and pestle is centered in the background of the slide. The mortar is a shallow, rounded bowl, and the pestle is a long, tapered rod with a rounded end. Both are set against a light-colored wooden surface with visible grain.

- **Pharmaceutics** : Science which designs dosage form
- **Rasashastra**
- **Chaturvidha Rasayana**
- **Kharaliya, Pottali, Kupi pakwa and Parpati**

Kharaliya Rasayana

Concept*:

- Prolong shelf life of herbal formulations
- Enhance the therapeutic efficacy
- Decrease the dosage
- Decrease the duration of treatment
- Provide bilateral safety and efficacy to both mercury and herbs

** Review of Rasakalpas – P. H. C. Murthy*

Peculiarity

- Rasoushadhi prepared in Kharala
- Raw materials
- Processing
- Finished product

Kharala

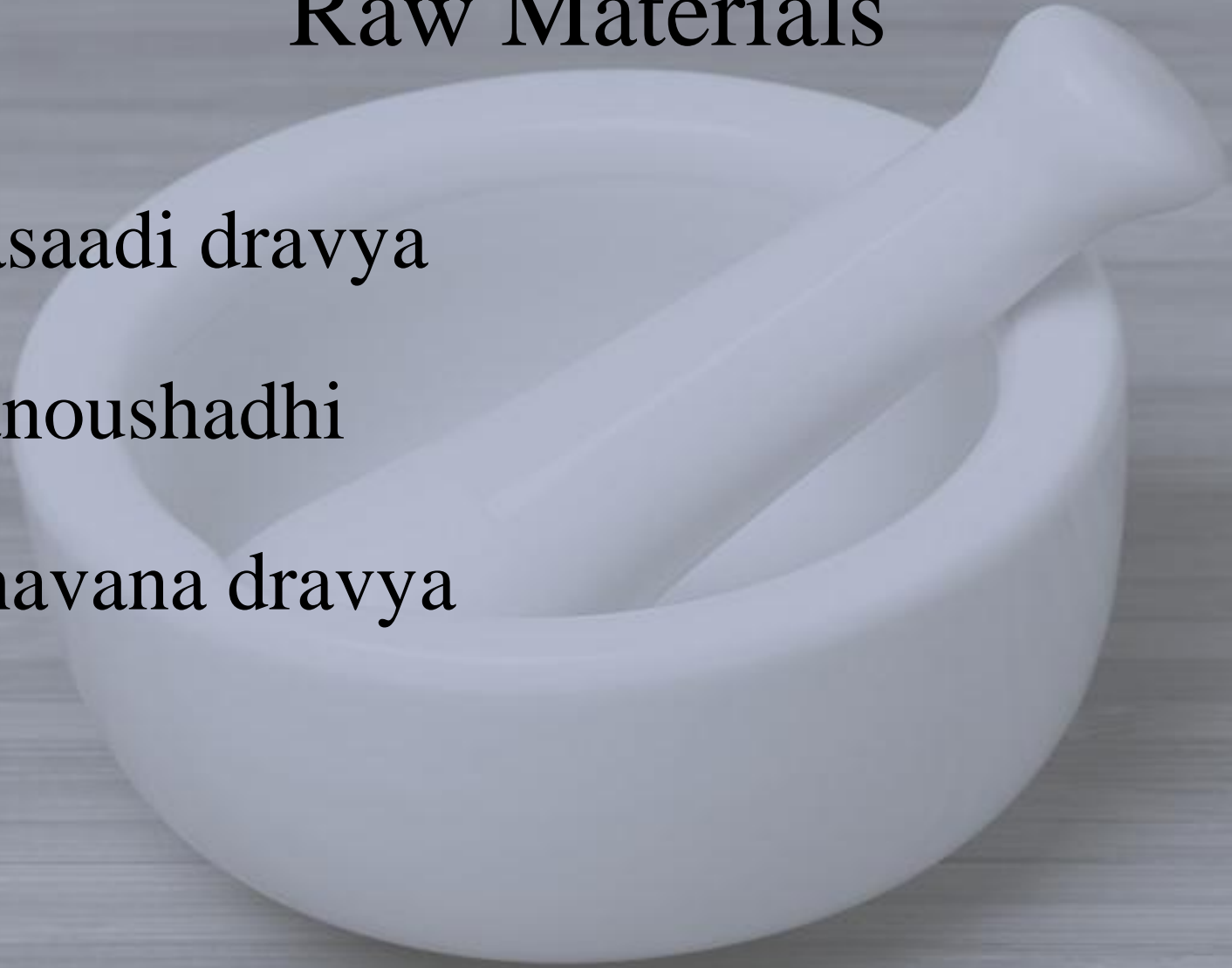
R.T. : चषकोपममत्यच्छं सुदृढ पिच्छिलोपमम्
सच्छिलाविहितं पात्रं खल्वयन्त्रमिहोच्यते

- Uses: रसोपरसलोहादे पेषणादिककर्मणि
- Types: Two
- Vartulakara(12x9x11) (14 A)
- Droni roopa(16x12x7) (12 A)



Raw Materials

- Rasaadi dravya
- Vanoushadhi
- Bhavana dravya



Processing

A white ceramic mortar and pestle is centered in the background. The mortar is a shallow, wide bowl, and the pestle is a long, tapered rod with a rounded end, resting inside the mortar. The entire scene is set against a light-colored wooden surface with a visible grain.

- Kajjali nirmana
- Mixing of all other ingredients
- Bhavana
- No agni samskara

Final Product

- Ready to use form
- Vati, guti etc



Brahat Vata Chintamani Rasa

भागत्रयं स्वर्णं भस्मं द्विभागं रौप्यमभ्रकं
लोहात् पञ्च प्रवालञ्च मौक्तिकं त्रयं सम्मितं
भास्म सूतं सप्तकञ्च कन्या रसं विमर्दितं
वल्लं मात्रा वटिकार्यं भिषग्भिः परियत्नतः

**B.R.*

Cont...

- No herbal drugs as ingredients
- Kanya Rasa bhavana (Tikta rasa)
- Valla matra = 3 ratti = 375 mg
- Vati



Cont...

- Rasa sindhura – 7 parts (out of 25 parts)
- Dose of Rasa sindhura = 1 ratti = 125mg
- In 375 mg BVC, Rasasindhura = 105mg
- Therefore,
 - 375mg may not be single dose
 - It should be given in divided doses or OD

Vasanta Kusumakara Rasa

- Swarna bh, Abhraka bh = 2 parts
- Loha bh, Vanga bh = 3 parts
- Rasa bh = 4 parts (*sarvamekatra mardayet*)
- Pravala bh, Mukta bh = 4 parts
- Bhavana with – Godugdha, Vasa swarasa, Haridra rasa, Mocha kanda rasa, Shatapatra rasa, Malati rasa and Tulasi rasa

**B.R. Prameha*

Cont...

- No herbal drugs as ingredients
- Multiple bhavana dravya mentioned
- No mentioning of Vati

(gunjadwayam daditasya madhuna sarvamehanut)

- If given with Sita and chandana – Amlapitta hara

Cont...

- Dose = 2 gunja = 250mg with Madhu
- Rasa Bh – 4 parts out of 22 parts
- In 250 mg VKR, Rasa Bh = 45.55mg
- Therefore,
 - VKR dose is single dose
 - Can be given thrice a day

Krimimudgara Rasa

क्रमेण वृद्धं रस गन्धकाजमोद

विडङ्गं विषमुष्टिकाच

पलाश बीजाञ्च विचूर्णयात्

निष्क प्रमाणं मधुना अवलीढं

**R.Sa.Sa*

Cont..

- Mixed formulation
- No bhavana dravya mentioned
- Dose = Nishka = 1 gram with Madhu
- Parada dose = 1 ratti = 125mg (*R.T.*)
- In 1 gm KR, $Hg = 45\text{mg}$ (1part out of 21 parts)
- Therefore,
 - KR dose is single dose and can be given TID

Arogyavardhini Vati

रस गन्धक लोहाभ्र शुल्ब भस्म समांशकम्।
त्रिफला द्विगुण प्रोक्ता त्रिगुणम् च शिलजितु॥
चतुर्गुणं पुरं शुद्धं चित्रमूलञ्च तत्समम्।
तिक्त सर्वसम ज्ञेय सर्वं सन्चूर्ण यत्नतः॥
निम्बवृक्षदलाम्भोभिर्मर्दयेत् द्विदिनावधि।
ततश्च वटिकाकार्या राजकोल फलोपमा॥
मण्डलं सेवितासैषा हन्ति कुष्ठान्यशेषतः।

**R.R.S.*

Cont...

- Mixed formulation and bhavana dravya told
- Even Guggulu is one of the ingredient
- Dose = Raja kola = 6 gm
- Duration = Mandala = 40 days
- Therefore,
 - 150mg / day
 - Vati of 75 mg BD

Gandhaka Rasayana



- Shuddha Gandhaka
- Bhavana with:
 - Godugdha (3)
 - Chaturjata (8)
 - Guduchi (8)
 - Triphala (8)
 - Shunti (8)
 - Bhringaraja (8)
 - Ardraka (8)

**A.P.*

Cont...

- Dose : 1 karsha = 12 gm
- Dose of Gandhaka = 1 – 8 ratti = 1gm
- Therefore,
 - GR to be used in divided doses
 - For 40 days, it can be given 300mg/day
 - So, 150mg BD can be planned.

Hinguleshwara Rasa

अमृतं विमलं युगतोलमितं दरदं च कणासममेव समम्
परिपेष्य भृशं खलु सार्धयवप्रमिता वटिका विदधीत बुधः
रसोऽयं तु समाख्यातो विबुधैर्हिङ्गुलेश्वरः
आमवातप्रशमनस्तथा वातज्वरापहः

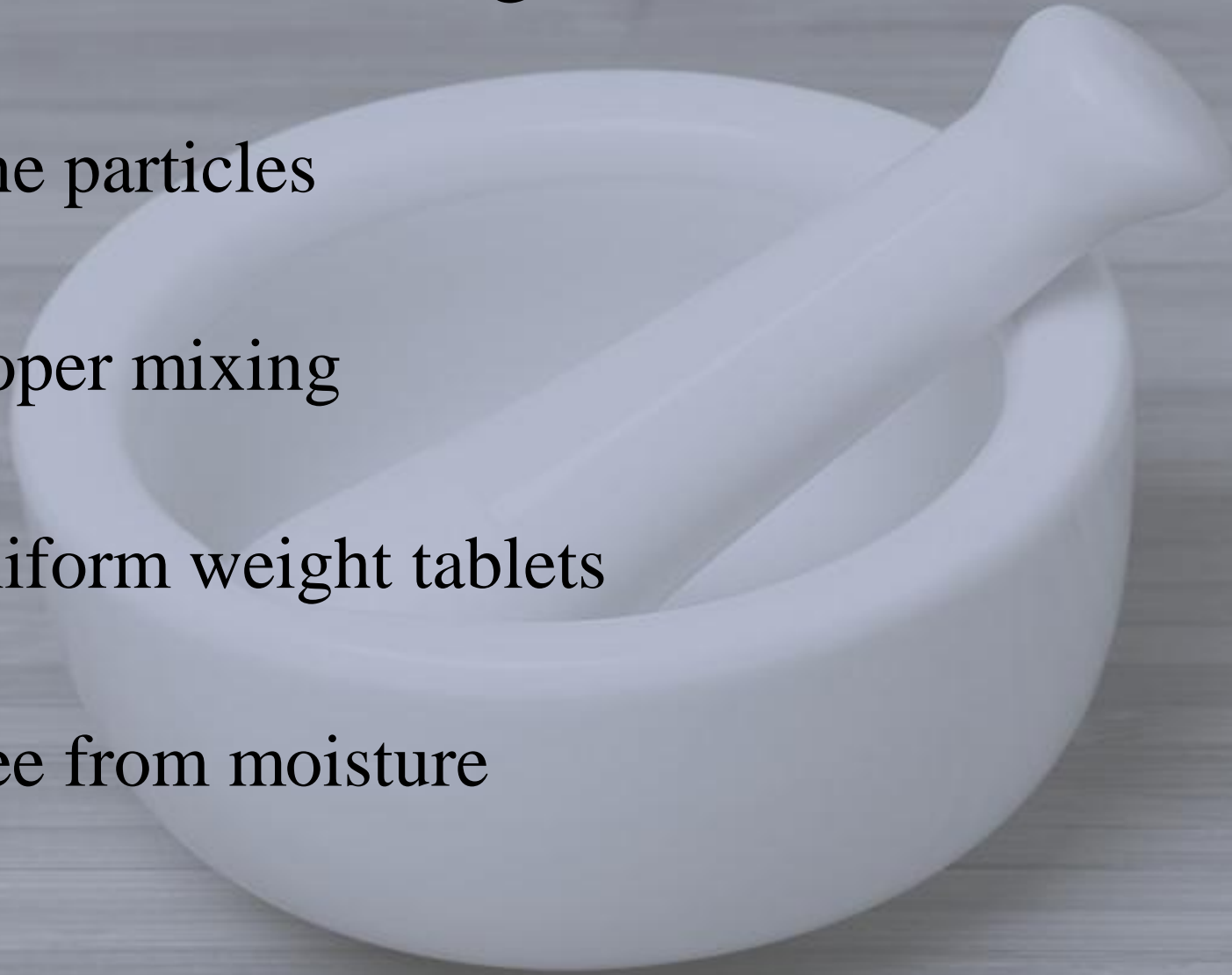
**R.T. 24/78-9*

Cont...

- Mixed formulation
- Bhavana dravya not mentioned
- But Vati of $1\frac{1}{2}$ Yava = 0.75 mg to be prepared
- Commentator:
 - *Vaarina peshayitva* (Water to be used)

Large Scale

- Fine particles
- Proper mixing
- Uniform weight tablets
- Free from moisture



Fine Particles

- Disintegrator :
 - used for reduction of particle size of raw materials
 - Capable of grinding hardest of drugs like nux-vomica seeds, ginger etc

Cont...

- Pulverizer:
 - Specially designed for medium fine and fine size reduction with heavy and rugged construction
 - Can be used for minerals

Proper Mixing

A white ceramic mortar and pestle are shown on a light-colored wooden surface. The mortar is a shallow, wide bowl, and the pestle is a long, tapered rod with a rounded end, resting inside the mortar.

- Mixer:
 - Equipment used to mix two or more than two components
 - It ensures uniformity in composition

Cont...

- Grinders:
 - Particle size reduction and proper mixing both can be achieved by this instrument
 - Breaking of particle done by continuous pressure
 - Size reduction by impact or blow
 - Grinding by shear or abrasion

Uniform weight

Pill Making Machine:



Free From Moisture

- Vacuum Drier
- Silica gel packs
- Air tight containers

Discussion

A white ceramic mortar and pestle is shown on a light-colored wooden surface. The mortar is a shallow, wide bowl, and the pestle is a long, tapered rod with a rounded end, resting inside the mortar.

- Role of Bhavana:
 - Proper mixing
 - Particle size reduction
 - Catalyst action
 - Sustain release

Conclusion

A white mortar and pestle is centered in the background of the slide. The mortar is a shallow, wide bowl, and the pestle is a long, tapered rod with a rounded end. Both are resting on a light-colored wooden surface with visible grain. The entire scene is rendered in a monochromatic, light gray tone.

- Hidden meaning is to be understood to use Kharaliya rasayanas effectively
- Yukti plays important role in using many of the Kharaliya rasayanas

Thank you....