Human Journals **Review Article**March 2022 Vol.:23, Issue:4

© All rights are reserved by Bharatraj P B et al.

Mode of Action of Apunarbhava Bhasma Pareeksha through the Mitrapanchaka Gana



1*Bharatraj P B, 2Veena B Kupati

¹Final year PG Scholar Department of Rasashastra evum Bhaishajya kalpana, KLE Shri BMK Ayurveda Mahavidyalaya, Belagavi. India.

²Associate professor department of Rasashastra evum Bhaishajya kalpana, KLE Shri BMK Ayurveda Mahavidyalaya, Belagavi. India.

Submitted: 20 February 2022
Accepted: 25 February 2022
Published: 30 March 2022





www.ijppr.humanjournals.com

Keywords: Ayurveda, Bhasma, Apunarbhava Pareeksha, Mitrapanchaka Gana

ABSTRACT

Ayurveda uses metals and minerals in the form of bhasma (nanoparticles). Preparation bhasma is performed by shodhana (purification) and Marana (incineration) processes.

Shodhana is not only reducing impurities but also enhances the properties of metals and minerals. This is the first level in Marana. Marana is performed by mardana(trituration) with herbs and by giving puta(heat) that is to give puta to metals and minerals. It's useful to check the qualities of bhasma and to verify the completion of the bhasma procedure. In ayurvedic texts, many *bhasmapareekshaa's*¹are available but the apunarbhava bhasmapareeksha plays the major part among them. Those are varna(color), rekhapurnatwa, varitaratva, unnama², apunarbhava, niruttha³, amladadhi pareeksha, dantagre Kacha Kacha, shlakshnata and mriduta, nischandra, anjanasadrusha sukshmatwa,nirdhoomatwa, gatara satwa, etc. Apunarbhava means punar utpada abhava4. Incapability to regain its original form. This test indicates the bhasma irreversibility state of becoming again the same metal or mineral. Apunarbhava and niruttha bhasma⁵pareeksha are used for apakwa bhasma or incomplete bhasma. Here apunarbhava bhasmapareeksha is performed with mitrapanchaka Gana dravyas or dravaka gana's. Mitrapanchaka gana⁵are guda(jaggery), ghrita(ghee),gunja(abrus precatorius), Madhu(honey),tankana(borax).Andrasataranginikara by replacing the guda by guggulu also same. Make a mixture of mitrapanchaka Gana and the sample of bhasmathen heat it strongly according to its method of preparation temperature. Product of mixture at last in a crucible and not converted again into metallic form then its apunarbhava pareeksha(irreversibility test) is passed otherwise repeat the same process up to it passes the apunarbhava. in this article, the mode of action of mitrapanchaka Gana in apunarbhava pareeksha is discussed.

INTRODUCTION

The principle of *rasa shastra* helps in enhancing the therapeutic properties of *rasa* drugs, therefore, these drugs nourish the whole body, improve the immune system and hence increase the natural resistance to infection. The word *rasa shastra* means the science of mercury. It is a specialized branch of Ayurveda dealing mainly with materials which are known as rasa *dravvas*.

Bhasma pareeksha

A bhasma means ash obtained through incineration, the starter material undergoes an elaborate process of purification and this process is followed by the reaction phase, which involves the incorporation of some other minerals and/or herbal extract.

*Bhasma*is a unique preparation of *Ayurveda* that is obtained after the different processes, like *Shoshana*, *Bhavana*, and *Marana*. These *shodhana* processes help to remove the impurities and reduce the particle size. The term *Marana* means killing.

Apunarbhava means punar utpada abhava. Incapability to regain its original form. This test indicates the *bhasma* irreversibility state of becoming again the same metal or mineral.

Apunarbhava means incapability to gain its original form. The original metal and mineral bhasma cannot be reversible after the Marana process with mitrapanchaka gana.

The Bhasma sample is mixed with mitrapanchaka Gana dravyas and the same amount of heat is given according to the bhasma sample then leave it for swangasheetata. Open sample and check its metallic form even in minute amount. If there is any reversibility of metal or mineral particles then repeat the process up to get the irreversibility.

Mitrapanchaka gana⁷: As like the dravaka Gana dravyas, the mitrapanchaka also do the dravana (liquefies and maintain temperature) and pakwapakwata (properness) of the given bhasma sample. But in both of two have little change that is mitrapanchaka itself says it contains 5 numbers of ingredients or contents.

- 1) *Ghrita*⁸ (ghee)
- 2) *Gunja*⁹(Abrus Precatorius)
- 3) *Madhu*¹⁰(Honey)

- 4) Tankana¹¹ (borax)
- 5) Guda (jaggery)¹²
- 6) Guggulu (Commiphora Mukul)¹³

Drug Review

S.N	Drug	Latin name	Rasa	Guna	Virya	Vipaka	Karma
0							
1	Guda	Saccharam officinarum	Madhura	Guru	Sheeta	Madhura	Vata pitta shamaka
2	Gunja	Abrus precatorious	Tikta, Kashaya	Laghu, Ruksha, Tikshna	Ushna	Katu	Kapha Vata shamaka
3	Tankana	Sodium pyro borate	Katu	Ushna, Ruksha, Tikshna	Ushna	Katu	Kapha Vata hara,Deepa na, Saraka
4	Ghrita	Clarified butter	Madhura	Sheeta, Mrudu	Sheeta	Madhura	Vata- pittahara hara, Vrushya, Medhya
5	Madhu	Honey Apis mellifera	Madhura, Kashaya	Guru, Ruksha	Sheeta	Katu	Tridoshaha ra
6	Guggulu	Commiphor a Mukul	Katu, tikta, kashaya	Laghu, Sara, vishada	Ushna	Katu	Balya, rasayana, vamya, bhagnasand hanakrt, medohara

According to *rasendrachintamani*, these *dravyas* are acted as reducing agents.

In apunarbhava bhasma, pareekshaany bhasma can mix with mitrapanchaka Gana and heat

then free metals will collect and form a single mass which can be observed after the

pareeksha. If there are no metal particles then the bhasma is passed the pareeksha.

MATERIALS AND METHODS

According to rasaratna samuchchaya mitrapanchaka gana are gunja, guda, ghrita, madhu,

tankana.

According to rasatarangini¹⁴ mitrapanchaka gana are gunja, guggulu, ghrita, madhu,

tankana. Here instead of guda guggulu is taken.

Mitra means friends. Mitrapanchaka gana also known as dhatu dravaka or lohadravaka.

But in rasaratna samuchchya¹⁵ dravaka gana are guggulu withguda, gunja ghrita, madhu,

tankana. These six drugs are used to melt the metals. Used In the satwapatana process of

metals and minerals.

The procedure of apunarbhava pareeksha of bhasma:

A sample of bhasma is to be taken and mixed with mireapanchaka Gana homogeneously

with equal weights. Kept in crucible with sharava samputayukta sandhi bandhana properly.

Sufficient *puta*(direct heat) is to be given. The same temperature or more than the *Marana*

process temperature should be given and leave it for swangasheetata(shelf cooling). Then

take out the sample mixture and observe the free metal radicals, metal taricles, and solid

heavy metal or mineral, if available then find out it and repeat the whole bhasma for Marana

process or bhasmeekarana. Again, repeat the same pareeksha up to the irreversibility

achieved.

DISCUSSION

Gunja

Is *vyavayi* mean quick action in the body? *So* helps to increase the rate of a chemical reaction.

Ghrita and Madhu

Are yogavahi. The meaning of yogavahi is to be capable of adopting and acquiring the

properties of the drug with which it mixes.

1 ()

Guda(jaggery)

Is *snigdha and madhura*. They work as a catalyst and increases the speed of reaction.

Except for tankana, all the mitrapanchaka gana are naturally organic. Guda, ghrita, Madhu contains fructose, sucrose, glucose. After the Marana process in apunarbhava pareeeksha, all the mixture is converted into carbon as per the chemical reactions.

Tankana

Is sodium borate is a mineral. It's used as a flux in metallurgy and in the manufacturing of artificial gems.

Acts as a reducing agent. According to rasendra chintamani¹⁷.

Used for "Ekikaran" which is a homogeneous mixture of abhraka satwa with mitrapanchaka Gana and strongly heated homogeneously then becomes like kansya.

Guggulu

Helps to retain the higher temperature for a longer period of time.

CONCLUSION

The mitrapanchaka Ganas are alkaline and organic in nature, so allows the bhasma's metal particles to get melt at a low temperature than the actual temperature of bhasma given at the Marana process. if the sample becomes hard after the procedure then checks it once after swangasheetata. If hardness or metal particles show then repeat the same Marana for making bhasma and then again do apunarbhava pareeksha for irreversibility.

REFERENCES

- 1. Kulkarni D. A. Rasaratna Samuchchaya Vidnyanabodhini Hindi commentary, New Delhi: Meharchanda Lachhmandas Publications; Reprint 1998, 8/30, Pp-148.
- 2. Kulkarni D. A. Rasaratna Samuchchaya Vidnyanabodhini Hindi commentary, New Delhi: Meharchanda Lachhmandas Publications; Reprint 1998, 8/30, Pp 149.
- 3. Kulkarni D. A. Rasaratna Samuchchaya Vidnyanabodhini Hindi commentary, New Delhi: Meharchanda Lachhmandas Publications; Reprint 1998, 8/30, Pp 150.
- 4. Sharma Sadanand. Rasatarangini. (11^{th} Edition) Rasavigyana Hindi commentary, Delhi: Motilal Banarsidas Publication; 1979. Reprint 2012, 2/37 38, Pp 18.
- 5. Sharma Sadanand. Rasatarangini. (11th Edition) Rasavigyana Hindi commentary, Delhi: Motilal Banarsidas Publication; 1979. Reprint 2012, 2/56, Pp 23.
- 6. Sharma Sadanand. Rasatarangini. (11th Edition) Rasavigyana Hindi commentary, Delhi: Motilal Banarsidas Publication; 1979. Reprint 2012, 2/38, Pp 18.

- 7. Kulkarni D. A. Rasaratna Samuchchaya Vidnyanabodhini Hindi commentary, New Delhi: Meharchanda Lachhmandas Publications; Reprint 1998, 8/30, Pp 148.
- 8. Bhavamisra. Bhavaprakasha Nighantu. New Delhi. Motilalbanarasidas; 2002. 23/25, Pp 432.
- 9. Bhavamisra. Pandey GS, editor, Bhavaprakasha Nighantu. (1^{st} Edition) Varanasi: Chaukambha Bharati Academi; 2006. Pp 298.
- 10. Sharma Sadanand. Rasatarangini. (11th Edition) Rasavigyana Hindi commentary, Delhi: Motilal Banarsidas Publication; 1979. 24/38, Pp 319.
- 11. Agnivesh, Kashinath Shastri Charaka Samhita, Sutra sthana; (21^{st} Edition) Varanasi: Chaukambha Bharati; 2002. 27/232, Pp-401.
- 12. Shastri Brahma Shankar. Bhavaprakasha nighantu. (6^{th} Edition) Vidyotini Hindi commentary, Varanasi: Chaukambha Sanskruta samsthana; 1984. Pp - 788.
- 13. Priyavrit Sharma, Namarupajnanam, Choukhambha visvabharati, Varanasi, 2011. Pp-72 to 73.
- 14. Sharma Sadanand. Rasatarangini. (11th Edition) Rasavigyana Hindi commentary, Delhi: Motilal Banarsidas Publication; 1979. Reprint 2012, 2/38, Pp 18.
- 15. Kulkarni D. A. Rasaratna Samuchchaya Vidnyanabodhini Hindi commentary, New Delhi: Meharchanda Lachhmandas Publications; Reprint 1998, 8/30, Pp 149.
- 16.www.americanborate.com/all-about-borates/borate-applications/borates-in-metallurgy [cited 2022 Jan 28].
- 17. Dr.Siddhinandan Mishra, Rasendra Chintamani, Choukhamba orientalia publication, Pandit 2nd edition, 2006, Pp-58.

