International Research Journal of Ayurveda & Yoga Vol. 5 (2),40-48, February, 2022 ISSN: 2581-785X;<u>https://irjay.com/</u> DOI: : https://doi.org/10.47223/IRJAY.2022.5206



Murvadi Agada-QC Analysis, Method of Preparation & its Uses in Current Scenario

Rudramma R Hiremath,¹ Roshi Digra²

1-HOD, Department of Agada Tantra KAHER's Shri BMK Ayurveda Mahavidhyalaya, Belagavi 590003, Karnataka, India

2-Department of Agada Tantra KAHER's Shri BMK Ayurveda Mahavidhyalaya, Belagavi 590003, Karnataka, India

Article Info

Article history: Received on: 06-01-2022 Accepted on: 19-02-2022 Available online: 28-02-2022

Corresponding author-

Rudramma R Hiremath HOD, Department of Agada Tantra KAHER's Shri BMK Ayurveda Mahavidhyalaya, Belagavi 590003, Karnataka, India <u>Email: - dr_rrhiremath@yahoo.co.in</u>

ABSTRACT:

Murvadi Agada is a unique and useful formulation, which is specifically prescribed for *Agni Vikara's*. It is a compound herbal preparation that is explained under the context of "*Garopahat Paavaka*" i.e. a condition which is a result of impaired *Agni* caused due to administration of *Gara visha*. The formulation is a sole contribution of *Asthanga Kara's* which is not explained elsewhere. *Murvadi Agada* has to be administered with *Anupanas* like *Ushana Jala, Takra, Mastu and Amla Rasa Dravyas. Gara visha* condition in present era can arise due to addition of toxic substances like animal excreta, toxic medicines, *viruddhaaushadhi* etc to food substances. In current scenario all the junk food, colouring agents, food additives, preservatives, packed food items and drinks can be taken as *Gara Visha.* This may produce *Agni Vikara's* (digestive disorders) like *Sthoulya, Arsha, Attisara, Udara Rogas* etc. *Murvadi Agada* administered with proper Anupana can help in these diseases.

Keywords: Murvadi agada, Garopahatpaavaka, Anupana, Gara visha, Agnivikara's

INTRODUCTION

In Ayurveda, the concept of *Gara visha* is well explained. *Gara visha* can be understood as artificial low potent poisons¹. *Gara Visha* is a blend of both *Savisha* and *Nirvisha Dravya's* from animate and inanimate origin². At present *Gara visha* can be considered as unhygienic, unprocessed or irregularly cooked meats of various animals, or most of the infections which depends on the meats of animals where they grow. Most of the microbes (Bacteria ,Parasites and Fungus) grow on the meat. There after growing release endotoxins or exotoxins resulting into food infections and deleterious effects over body. *Gara visha* is usually mixed along with *Anna painadi* of a person whom to be killed. It is done usually by ladies either for *Vashikarana*, to get attention, or due to grudge or due to threatening by enemies^{3,4,5}.

By the consumption of *Gara visha*, a person can show *Garopahata paavaka* (diseases related to digestive power) and *Garophata Twacha* (diseases related to skin). *Pandutwa*, *Krsata*, *Alpagni*, *Kasa*, *Swasa*, *Jwara*, *Sopha*, *Adhmana*, *Udara*, *Pliharoga*, *Duarbalya* are the diseases related to *Garopahata paavaka*. *Asadhya lakshanas* of *Gara Visha* are explained as vitiation of *Manovaha Srothas* (*Garaja Unmada*), *Syava Vadanam* (Discoloration on face)



, loss of immunity and health (Nashta Chaya, Bala and Indriya).^{67,8}

As per *Acharya Charaka, Gara Visha* are the substances derived from that off *Sthavara* and *Jangama*. The ideal nature of these being *Avipaaki*- difficult for digestion, thus stays for a long time and produces disease.⁹

As per the *Chakrapaani*, the commentator of *Charaka Samita* opines that *Gara Visha* is a combination arising out of *Savisha* and *Nirvisha dravya's* and is *Chirakaari* and *Roga janakakari*.¹⁰ *Acharya Sushruta*, explained *Agada Tantra* as *Vividha visha samyoga krita* which is nothing but *Gara Visha*¹¹ *Acharya Vagbhata*, opinion is that *Gara visha* is a type of *Krithrima visha* prepared by using various substances. Even though it is non- toxic or less toxic substances, by the *Paka* (metabolism) they eventually act as toxins.^{12, 13}

Murvadi Agada References:

Asthanga Hridaya/Uttarasthana/35th Chapter Asthanga Sangraha/Uttarsthana/40th Chapter

Murvadi Agada Ingredients:- Shown in Fig-1

Methods Of Preparation:

- All the ten ingredients of good quality are taken in raw form in equal quantity.
- They all are prepared in *Sookshma Choorna* (120mesh) separately and sieved.
- In the *Khalava*, all the drugs are mixed homogenously for more than seven times.
- The homogenously mixed *Choorna* is kept in UV chamber under UV rays for more than 2 hours and packed in airtight container/pouch. (photos)

Dosage: 1 *karsha* (12gm) **Shelf Life:** 2years

Table 1: Review of *Murvadi Agada* Ingredients¹⁴ Table 2: *Rasa Panchaka Of Murvadi Agada* Ingredients Table: 3 Properties of *Anupana of Moorvadi Churna* Table 4. QC analysis Table 5. Tests for Alkaloids Table 6.*Murvadi agada*

DISCUSSION

Gara visha is a considered as articles which are by virtue of their qualities or low potency or due to combination of non- poisonous substances or even by a competent medicine which is opposite to the *Shareera* results in

pathology. If such Gara enters into the Shareera then due to its Apaaki Guna it causes disturbances in the Agni and deranges it by causing Ama, which further initiates the chain of Vyadhi Utpatti. In present, Gara Visha can be considered as unhygienic, unprocessed or irregularly cooked meats of various animals. Other parts can be understood as hoof, hairs, bones, teeth, etc. Most of the times, all these parts are accidentally mixed with foods and consumed, produces ill-effects in the individuals. Acharaya's have explained the intentions of Poisoning clearly as-Homicidal, Accidental. Gara visha is explained as poison which is usually mixed along with Anna Pannadi of a person whom to be killed. It is done usually by ladies who either for Vashikarana, to get attention, or due to gurdges, or due to threatening by enemies. Accidental poisoning is also seen when the ladies unknowingly or accidentally prepares certain preparations which results in such poisoning. The factors that make this poison to be different from other categories are its intentional use. During ancient times it was used for different purposed as Vasya, Vyadhikaraka or Maraka. Chances for accidental poisoning are also more. Gara is known for its Avipaaki and is known for Alpa Veerya (low potency) hence it is not producing acute actions and will not undergo proper digestion and assimilation. As a result it is not properly digested and accumulated leading to Agnimandya. This gradually leads to "Srotorodha" when there is Srotorodha, dosha's are further vitiated and results in impairment of Dhatuparunama. Manifestation of diseases is mainly depending on the Agni of a person. Agni may be either Dhaatwagni or Bhootagni or even Jatharagni. When there is a hindrance in these Agni, then Ama is produced due to improper digestion of the Ahaara that we consume. Gara when enters into the body vitiated Agni due to its inherent qualities like Apaaki Guna. Amount of Ama collection depends on the digestive capacity, nature of the food, frequency of ingestion etc, certain substances or food articles which are unwholesome if entered into body results in certain pathologies which differ from person to person. If the Agni is disturbed due to Gara Visha, the Murvadi Agada can be used, as it alleviates all Garopahata Vikaras. Murvadi Agada has Deepaka, Pachaka, Grahi, Anulomaka, Shula Prashamaka & Pitta Saraka properties and if administered with proper Anupana helps in the correction of Agni Mandya caused by Gara Visha.

CONCLUSION

Murvadi Agada is prepared by combination of ten drugs,

which is helpful in treating various diseases produced by Agni Mandhya caused due to Gara Visha which is prepared artificially by the combination of various poisonous and non-poisonous substances. Gara Visha is classified under Kritrima or Sanyogaja Visha. The formulation is explained by Asthanga Kaara's only. Acharya Vagbhat states that production of Ama in the body lead to the same symptoms like that of poison²³. On the basis of this, Ama can be considered as Gara. According to Dalhana commentary, Gara Visha is not always used interntionally,but sometimes it may be taken accidentally also. The defects of digestion were considered as pathogenic. Ama is condition due to defected digestive power. Ethological factors of Ama can be considered under exogenous and endogenous factors. The exogenous factors enter into the body thourgh ingestion, inhalation and injections. As per the definitions it is understood that Ama refers to an endotoxin. This toxin is a harmful material foemd in the body at the level of gut or even at the level of cellular metabolism. Imcompatibility is also very much connected with intrinsic toxin²⁴. Mass outbreaks should be considered among the Gara Visha as it is due to accidental poisoning. Murvadi Agada if admistered with proper Anupana like Ushana jala, Takra, Mastu, Amla rasa dravyas; it shows better results. All the Agni Vikara caused due to Gara Visha can be treated with administration of Murvadi Agada with proper Anupana. In today's scenario junk food, food additives, preservatives, packed drinks etc. can be considered as Gara Visha .This will produce all the Agni Vikaras like Sthoulya, Arsha, Attisara, Udara Rogas etc. These signs and symptoms are same as that of Gara Visha. Murvadi Agada can be used in treating all the Agni Vikaras.

Acknowledgements- I acknowledge my guide and HOD, Dept of Agada Tantra Dr. Rudramma R Hiremath mam for helping and guiding me in understanding the concept of *Murvadi Agada*

Conflict of Interest – None Source of Finance & Support - Nil

REFERENCES

- Anonymous. Ayurvediya Shabda kosha. In :Maharashtra Rajya Sahitya. Samskriti Mandal, Mumbai: 1968, pp.1134.
- Tripathi B, Ashtanga Hridaya with Sarvangasundara Teeka of Arunadatta. Ayurveda Rasayana of Hemadri, chapter. ut-35/49 Varanasi; Chaukhamba Surabharati Prakashan: 2010,pp.905.

- Acharya YT. Sushruta samhita with Nibandhasangraha Commentary of Dalhanaacharya, chapter ,kalpasthana. 1/25-27 Varanasi: Chaukhamba Surabharati Prakashana: 2010.pp.560.
- Acharya YT.charaka samhita with ayurveda Dipika Commentary of Chakrapanidatta, Chikitsa sthana ; visha pratishedha adhyaya/ 233 Varanasi:chaukhamba surabharati prakashana:2011.pp.581.
- Tripathi B. Ashtanga samgraha with Shashilekha teeka of Indu, Uttaratantra 40/61 Varanasi: chaukhamba surabharati prakashan:2010.pp.852.
- Tripathi B Ashtanga Hridaya with Sarvangasundara Teeka of Arunadatta and Ayurveda Rasayana of Hemadri, ut-35/50-53 Varanasi:chaukhamba surabharati prakashan:2010.pp.906.
- Acharya YT .charaka samhita with ayurveda Dipika Commentary of Chakrapanidatta, Chikitsa sthana ; visha pratishedha adhyaya/ 234-237 Varanasi:chaukhamba surabharati prakashana: 2011.pp.581.
- Tripathi B Ashtanga Samgraha with Shashilekha Teeka of Indu, Uttaratantra 40/63 Varanasi: Chaukhamba Surabharati Prakashan:2010.pp-852.
- Acharya YT.Charaka Samhita with Ayurveda Dipika Commentary of Chakrapanidatta, Chikitsa sthana ; visha pratishedha adhyaya; 14th shloka Varanasi:Chaukhamba Surabharati Prakashana: 2011.pp.571.
- Acharya YT. Charaka Samhita with Ayurveda Dipika Commentary of Chakrapanidatta, Chikitsa sthana ; visha pratishedha adhyaya; 14th shloka, Varanasi:Chaukhamba Surabharati Prakashana: 2011.pp. 571.
- Acharya YT. Sushruta samhita with Nibandhasangraha commentary of Dalhanaacharya. sutrasthana-1/7 Varanasi: Chaukhamba Surabharati Prakashana: 2010..pp.3
- Tripathi B Ashtanga Samgraha with Shashilekha teeka of Indu, Uttrasthana 40/62Varanasi: Chaukhamba Surabharati prakashan: 2010.pp.852.
- Tripathi B Ashtanga Hridaya with Sarvangasundara Teeka of Arunadatta and Ayurveda Rasayana of Hemadri, ut-35/ 48 Varanasi: Chaukhamba Surabharati Prakashan: 2010. pp.90.
- Anonymous. Data base on medicinal plants used in ayurveda. Dept of ISM &H; Ministry of Health & Family Welfare: Govt of India. 2005:Musta.pp.404-
- Sitaram B, Bhavaprakasha of Bhavamisra, volume-1, nightantu portion, Guducyadi varga. Chaukhamba orientalia Varanasi, edition 2018, pp:295
- Sitaram B Bhavaprakasha of Bhavamisra, volume-1, nightantu portion, Haritakyadi varga. Chaukhamba orientalia Varanasi, edition 2018, pp:137-138,

- 17. Sitaram B Bhavaprakasha of Bhavamisra, volume-1, nightantu portion, Karpuradi vargavarga. Chaukhamba orientalia Varanasi, edition 2018,pp:217.
- Sitaram B Bhavaprakasha of Bhavamisra, volume-1, nightantu portion, Shaka varga. Chaukhamba orientalia Varanasi, edition 2018, pp:462.
- Sharma PV, Sushruta Samhita with English translation of text and Dalhana's commentary along with critical notes, Sutra sthana, Vol 1, Chaukhambha Visvabharathi Oriental Publishers, 2009. pp. 423.
- 20. Murthy K.R, Ashtanga Hridayam English translation, Sutra sthana, Vol 1, Chaukambha Publishers Academy, 2008.pp.72.
- Sharma PV, Sushruta Samhitha with English translation of text and Dalhana's commentary along with critical notes, Sutrasthana, Vol 1, Chaukhambha Visvabharathi Oriental Publishers, 2008.pp. 432.

- Murthy K.R, Ashtanga Hridayam English translation, Sutrasthana, Vol 1, Chaukambha Publishers Academy,2009. pp.174.
- 23. Tripathi B, Ashtanga Hridaya with Sarvangasundara Teeka of Arunadatta and Ayurveda Rasayana of Hemadri, Sutra sthana 7th chapter Varanasi: chaukhamba surabharati prakashan: 2010. pp-113
- 24. Shukla V Ayurvediya Vikruti vijnana; Chaukambha sansktrit Prakashana: 2013.pp.136.

How to cite this article: Hiremath R, Digra R "*Murvadi Agada*-QC Analysis, Method Of Preparation & Its Uses In Current Scenario" IRJAY.[online]2022;5(2);40-48. Available from: <u>https://irjay.com;</u> Doi: https://doi.org/10.47223/IRJAY.2022.5206

Fig 1- Murvadi Agada Ingredients



Amruta



Chavya



Chitraka



Murva



Musta



Patola



Pippali



Tagara



Vaca



Vidanga

TABLE 1:

Review of Murvadi Agada Ingredients¹⁴

SI No	Drug	Botanical	Family	Chemical composition	Action
1.	Murva	Marsdeniatenaci ssima Wight. &Arn.	Asclepiada ceae	17α-Marsdenin, 17β- marsdenin, D-cymarose acetic acid, cinnamic acid , etc	Colic pain
2.	Guduci	Tinosporacordifo lia	Menisperm aceae	Tinosporine, tinosporon, tinosporic acid, tinosporide, columbin, etc	Anthelmintic, antispasmodic, anti- inflammatory, antipyretic, stomachic, constipating, digestive, appetiser
3.	Tagara	Valerianajatama nsi	Valerianac eae	Actinidine, carotene, calarenol, elemol, jatamols A amd B, etc	Bactericide, carminative, stomachic, laxative, sedative, etc
4.	Pippali	Piper longum Linn.	Piperaceae	N-4,5- trimethoxy cinnamoyl, n-hexadecane , n- heptadecane ,etc	Thermogenic, purgative, diuretic, stomachic, digestive, anthelmintic
5.	Patola	Trichosanthesdio icaRoxb.	Cucurbitac eae	Riboflavin, vitamin C, thiamine, linoleic, oleic,etc	Purgative
6.	Cavya	Piper retrofractumvahl	Piperaceae	Piperlongumine, Piperidine, n-nonadecane, n-eicosane, zinziberine, p-Cyenine, piperine, pipalartin, glycoside	
7.	Chitraka	Plumagozeylanic a Linn	Plumbagin aceae	Plumbagin, 3- chloroplumbagin, chitranone, zeylinone, etc	Stomachic, carminative, anthelmintic, dysentery, leukoderma, ascites, etc
8.	Musta	Cyperusrotundus Linn	Cyperaceae	B-sitosterol, 4α , 5α - oxidoeudesm-11-en- 3α -ol, pinene, cineol etc	Anti-inflammatory, stomachic, diuretic, nervine tonic, anthelmintic, etc
9.	Vidanga	EmbeliaribesBur m. f.	Myrsinacea e	Embelin, quercitol, tannin, embolic acid, resinoid, etc	Digestive, stomachic, diuretic, anthelmintic
10.	Vaca	Acrous calamus Linn	Araceae	Asarone, β-asarone ,cala,enol , calamine, eugenol, etc	Stomachine, diuretic, laxative, antispasmodic, anti- inflammatory, insecticidal, flatulence, etc

TABLE 2:

Rasa Panchaka of Murvadi Agada Ingredients

Sl No	Drug	Rasa	Guna	Veerya	Vipaka	Karma	Rogagnata
1.	Murva ¹⁵	Tikta, kashaya	Guru, ruksha	Ushna	Katu	Kaphahara, Pittahara,Vatahara,Vi saghna	Amadosha, Amlapitta, Vivandha, Krimi, etc
2.	Guduci ¹⁵	Tikta, Kashaya	Guru, snigdha	Ushna	Madhur a	Balya, Dipana, Rasayana,Sangrahi, Jvaraghna, Tridosasamaka	Aruchi, Agnimandya, Shoola, Amlapitta, Pravahika, Atisara, Grahani, Krimi, Jwara, etc
3.	Tagara	Tikta, katu, kashaya	Laghu ,snigdha	Katu	Ushna	Visaghna, Tridosahara ,Raktadosahara, , Manasadoshara	Agnimandhya, Udarshoola, Anaha, Jwara, Visha, etc
4.	Pippali ¹⁶	Katu	Laghu, snigdha, tikshna	Anushna sheeta	Madhur a	Dipana, Hrdya, Kaphara, Ruchya, Recana, Vrsya, Vatahara, rasayana	Ajeerna, Aruchi, vibandha, Gulma, Udarashoola, Shotha, Amvata etc
5.	Patola ¹⁸	Tikta	Laghu, snigdha	Ushna	Katu	Kaphapittahara,Vrshy a, Varnya, Dipana	Aruchi, Agnimandhya, Ajeerna, Trishna, Amlapitta, Atisara, Krimi, Udararoga, etc
6.	Cavya ¹⁶	Katu	Laghu,ruksa, tiksna	Ushna	Katu	Bhedana, Dipana, Kaphahara, Pacana, Recana, Vatahara	
7.	Chitraka ¹ 6	Katu	Laghu, ruksha, teekshna	Ushna	Katu	Sothahara, Dipana, Grahi, Pacana,Kaphavatahar a, Sulahara	Ajeerna, Agnimandya, Jeernapratishyaya, Grahani, Gudashotha, etc
8.	Musta ¹⁷	Tikta, katu, kashaya	Laghu, ruksha	Sheeta	Katu	Sothahara, Dipana, Grahi, Krmighana,Pacana, Visaghna, Pittakaphahara, Jvaraghna	Kaphapaittikavikara, Twakavikara, Aruchi, Agnimandya, Ajeerna, Vishavikara, Sangrahani
9.	Vidanga ¹⁶	Tikta, katu	Laghu, ruksha, teekshna	Ushna	Katu	Anulomana, Dipana, Krminasana, Vatakaphahara	Krimidanta, Agnimandya, Ajeerna, Chhardi, Udarashoola, Adhmana, Vibhandha,
10.	Vaca ¹⁶	Katu, tikta	Laghu, teekshna, sara	Ushna	Katu	Dipana, Krimihara, Kanthya, Kaphahara, Medhya, Vatahara, Vamak	Amajeerna, Aruchi, Vibandha, Adhamana, Krimi, Asharee, etc

Rudramma et al "Murvadi Agada-QC Analysis, Method of Preparation & its Uses in Current Scenario": 2022; 5 (2):40-48

Table: 3

Properties of Anupana of Moorvadi Churna

Anupanas	Doshaghnata	Properties
Ushnambu (Hot water)	Kapha vata	Removes Meda (fat) and Ama, Deepana (stimulates
		digestive fire), Basti Sodhanam (cleanses urinary
		bladder), alleviate Swasa (dyspnoea), Kasa (cough),
		Jwara (fever) and is always wholesome ¹⁹
Takra (Butter milk)	Kapha vata	Having Kashaya Amla Rasa (astringent and sour taste)
		Deepana (stimulates digestive fire), alleviates Sopha
		(swelling), Udara (ascites), Arsha (piles), Grahani
		(irritable bowel syndrome), Mootra Graha (incontinence
		of urine), Aruchi (tastelessness), Pleeha (splenomegaly),
		Ghrita Vyapath (complication due to ghee intake), Pandu
		(anaemia) ²⁰
Mastu (Whey)	Kapha vata	Amla-Kashaya-Madhura Rasa (sour, astringent and
		sweet taste), Laghu (light), removes Trishna (thirst) and
		Klama (exhaustion), Srotho Vishodana (cleanses
		channels), Avrishya (non- aphrodisiac), Prahladana
		(pleasing), Preenana (satiating), quickly breaks faeces
		down, strengthens the body quickly and produce Baktha-
		<i>Chandha</i> (desire for food) . ²¹
Amla rasa dravya (substance having sour taste)	Vata	Causes Agni Deepthi, Hridhya (conductive to heart),
		Pachana (digestive), Rochana (appetiser), having Ushna
		Veerya (hot potency), Preenana (satiating), Kledana
		(slimy), Laghu (light), causes aggravation of Kapha and
		Pitta, Mooda Vatanulomana (makes inactive Vata move
		downwards. ²²

Table 4. QC analysis

Drugs	Part	Colour	Taste	Odour	Foreign Matter	Ash Value	Acid Insoluble Ash	Water Soluble Extract	Alcohol Soluble Extract
Murva	Root	Yellow to buff	Slightly bitter	Indistinct	Nil	3.128%	0.1489%	16.078%	8.911%
Guduci	Stem	Light brown	Bitter	Characteristic	Nil	7.021%	0.896%	11.179%	3.503%
Tagara	Rhizome	Yellowish Brown	Bitter	Strong and Reminiscent of isobaleric acid	Nil	1.950%	0.350%	23.280%	-
Pippali	Fruit	Greenish – black to black	Pungent	Aromatic	Nil	5.976%	0.242%	30.986%	19.043%

Patola	Whole plant	Brown	Bitter	Not specific	Nil	7.500%	1.127%	9.080%	3.201%
Cavya	Stem	Greyish Brown	Acrid	Peppery	Nil	9.086%	1.098%	7.456%	4.411%
Chitraka	Root	Reddish to deep brown	Acrid	Disagreeable	Nil	2.795%	0.599%	16.072%	13.343%
Musta	Rhizome	Dark brown or black externally, creamish yellow internally	-	Pleasant	Nil	1.398%	0.723%	25.044%	9.289%
Vidanga	Fruit	brownish black	Astringe nt	Slightly aromatic	Nil	4.812%	1.020%	9.732%	13.197%
Vaca	Rhizome	Light brown to pinkish externally, buff coloured internally	Pungent & bitter	Aromatic	Nil	4.868%	0.099%	33.227%	24.582%

Table 5.

Tests for Alkaloids

S.No.	Tests	Water	alcohol		
1.	Test for Steroids	Positive	Positive		
2.	Test for Flavonoids	Positive	Positive		
3.	Test for Alkaloids	Negative	Negative		
4.	Test for Tannins	Positive	Positive		
5.	Test for Cardiac Glycosides	Positive	Positive		
6.	Test for Anthraquinone Glycosides	Negative	Negative		
7.	Test for Saponin Glycosides	Positive	Negative		

Table 6.

Murvadi agada

S.No.	Color	Touch	Taste	Consiste	Odour	Total Ash	Water	Alcohol	pН
				ncy			soluble	soluble	value
							Extractive	extractive	
Murvadi	Light	Smooth	Astringent	Powder	Characteristic	9.036%	17.432%	9.649%	6.23%
Agada	brownish								