IJAPC

Volume 11 Issue 2, 2019 www.ijapc.com 2350-0204

GREENTREE GROUP PUBLISHERS



Int J Ayu Pharm Chem

REVIEW ARTICLE

www.ijapc.com e-ISSN 2350-0204

Critical Analysis of Antidotes for Plant Poisons in Anupana Manjiri (Samuddesha): A Review Study

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ABSTRACT

Agadatantra is one of the eight branches of *Ashtang Ayurveda* that deals with the treatment of animate and inanimate poisons and toxic foods. Poison is a substance that destroys life and impairs the body functions. To counteract consequences of *Visha* specific drugs and formulations are described in the texts which are known as *Agada* or *Prativisha*. Antivenoms and chelating agents and are used in modern medicine to nullify the effect of *Visha* (Poison), but it has own limitation. *Anupana Manjiri*, published by Gujarat Ayurveda University press, is an important *Ayurvedic* textbook for physicians of *Ayurveda*. This text clearly mentions about different types of *Visha* (Poison), and its *Prativisha* (antidotes) in *Visha Chikitsa* (treatment of poison). This paper highlights different types of *Sthavara Visha* (poisons of plant origin) and its antidotes mentioned in *Anupana Manjiri*. References about poisons are not collectively present in one chapter but they are scattered in the book. So it is an effort to put them in organized manner for the sake of students and researchers of *Agadatantra*.

KEYWORDS

Agadatantra, Ashtang Ayurveda, Anupana Manjiri, Prativisha





INTRODUCTION

Poison has its origin from plant, animals, minerals, metals, toxic foods, denatured cumulative poisons, improperly cooked food, antagonistic food materials, food incompatibility. Charaka says that anything or drug wisely used can act as nectar otherwise it is a poison¹. That is even a strong poison can be converted into if medicine excellent administered properly. So intention of the physician to cure the patient is most necessary. But in clinical practice poisonous and semi poisonous substances may cause side effects if not handled correctly. These side effects may be due to overdose, improper processing or incorrect use etc. Hence doctor should be well equipped and aware about the management of such unexpected adverse reactions and effects. Knowledge of judicious use of drugs and management of complications if happened is must for the practitioner. Modern science follows seven principals of removing the poison from body, out of them one is 'use of specific antidotes'. There are few antidotes for each poison and they manage the patient by general life saving procedures. To nullify the deleterious action of Visha, Avurveda has described definite and precise Prativisha for most of the poisons.

Though Visha chikitsa is one among the Ashtang Ayurveda, a single hand information of these at one place is not various classical available in texts. Anupana Manjiri is a famous book in the arena of Agadatantra, and Rasshastra. It is written by scholars of Saurashtra and Gujarat regions and is well known by all physicians in the region. Book was written in eighteenth century by Acharya Shree Vishrama, it was divided into five Samuddeshya (Parts). Writer has already mentioned in the commencement of the book that objective of writing this book is to pacifythe diseases produced by metals, submetals, plant poisons and animal poisons. So it is exclusively book of treatments of all types of poisons. Literal meaning of Anupana is adjuvants hence for some specific formulations adjuvants are also mentioned. Thus it is a clinically oriented book. Division of metals into metals and submetals is one of the speciality of Anupanmanjiri. Anupana Manjiri, is written by Acharya Shree *Vishrama* in 18thCentury.Itis a very distinctive text which is absolutely dedicated to management of side effects of different drugs of herbal, animal and mineral origins. Anupana Manjiri is of outmost important in the field of Agadatantra but is explored not *comprehensively*. There are very few books



available in *Agadatantra* which are totally devoted to its therapeutic aspect, *Anupana Manjiri* is one of them.

Aims and Objectives: To analyze means "to break into parts and examine the components". Here is an effort to critically analyze the available data into drug wise antidotes, *Anupana*, animal origin drugs, plant origin, others, mineral origin, numerical about verses and *Samuddesha* from *Anupana Manjiri*.

MATERIALS AND METHODS

In this context, a review was made with the help of matter related to poisons and antipoisons substances of various origin and treatment of various poisons from the book *Anupana Manjiri*. After that results were discussed conceptually for fruitful outcome from the inferences of the study.

RESULTS AND DISCUSSION

Review of *Anupana Manjiri*: Classification of poisons was done on the basis of their origin into Plant poisons, Animal poisons and Parthiva poisons (Table 1).

 Table 1 Brief account of structure and contents of

 each Samuddeshha of Anupana Manjiri

Brief description about
contents
Saptadhatu and Mishraloha
Updhatu- Parad, Suta,
Abhraka, Makshika, Tutha,
Mrudarshrunga, Kasis,
Gairika,

	Though of animal origin-
	Mukta and Praval
	areconsidered under Updhatu
3	Sthavara Visha- Ahiphena,
	Bhanga, Dantibija, Ucchata.
	Disease named as "Luka"
4	Jangam Visha- Sarpa,
	Vrishchika, Kukkura, Rat
	(Maraki (Plague)disease
	caused by Shweta Akhu),
	Jalauka
5	Described in two parts-1.
	Dhatu-updhatu Shodhana
	2.
	Disease wise Adjuvants

Plant poisons are classified as*Mulini*, *Phalini*, *Kshirini*, *Pushpavarga*, *Pallava*, *Tvakvarga*, *Kantaka*, *Truna* etc. Animal poisons are classified as *Damshtri*, *Vishani*, *Ekshapha*, *Sarisrupa*, *Bileshaya* etc. *Parthiva* are classified into *Dhatu*, *Updhatu*, *Rasa*, *Uprasa*, *ratna*, *Upratna*, *Visha*, *Upavisha*, *Kshara* etc.

The main subject of the *Anupana Manjiri* is management of poisons (*Visha Chikitsa*) as mentioned in its first verse. The annexure of the book details about , 110 drugs of herbal origin, 20 of animal origin, 36 of mineral origin, indicated for management (table 2) of *Vishaktata* (Poisoning).

 Table 2 List of poison and its specific antidotes
 (Samuddesha III Sthavara Visha Shanti Prakarana)

Visha	Vikarshanti
1.Nagaphena ²	1.Bruhatkshudra
(Papavar	(Solanum indica
somniferum)	Linn.)juicewith(cow's
	Milk)
	2. Vacha (Acorus
	calamus, Saindhava
	(rocksalt), Pippali (Piper
	longam Linn. and
	Madanphala
	(Catunaregam spinosa
	(Thunb)for emesis



	<i>3. Tankan</i> (boraxand <i>Tuttha</i> (copper		Mrudvika (Vitis vinifera linn., Vrukshamla
	sulphate)for emesis		(Garcinia indica chois),
2. Dhattura ³	1. Vruntakphala bija		Amlarasatmaka Amla
(Datura metel	(juice of <i>Solanum</i>		Dadima (Punica
Linn.)	mwlongena Linn.) Rasa		granatum linn.),
Linn.)	1 Pala		Amalika (Tamarindus
			indica linn.), Phalsa-
	2. Godugdha (cow's		
	Milk)with Sharkara		Parushaka (Grewia
	(sugar)		asiatica) and Khanda
	3. Karpasa-asthi and		(sugar in the form of big
	Pushpa (bija- seeds and		crystals) all together
	flower of Gossypium	8. Pugiphala (Areca	1. Cold clothing's and air
	herbaceum Linn.)	catechu Linn.)	generated from wet cloth.
	Kwatha (decoction) with		2. Internally only
	lavana(common		Sharkara or Madhuyukta
	salt/rock salt)		(honey) with Sharkara
3. Vatsnabha ⁴	Patavana (juice of		(sugar)
(Aconitum ferox	Gossypium	9. Kodrava ⁹	1. Murcha syncope
Linn.)	arboretum//kydia	(Paspalum	caused by <i>Kodrava</i> - cold
	calycina Roxb.) Rasa	scrobiculatum	milk(cow's Milk)
	with <i>Sharkara</i> (sugar)	Linn.)	2 <i>Mada</i> intoxication
4. Bhallattaka ⁵	-	Linii.)	caused by <i>Kodrava</i> -
	1. Meghnada (Juice of		•
(Semicarpus	Amaranthus spinosus		<i>Kushmand</i> [juice of
anacardium Linn.F)	Linn.) <i>Rasa</i> with <i>Navnita</i>		Benincasa
	(cow's butter) subsides		hispida(Thunb) cogn.]
	the shopha(swelling)		Rasa with Guda
	caused by Bhallattaka	10	(Jaggery)
	2. Daru- Daruharidra	10. Karnavira ¹⁰	Mahish Dugdha
	(Berberis aristata DK) ,	(Nerium odorum	(Buffalow's milk)or
	Sarshapa (Brassica	Soland//Thevetia	Mahish Dadhi (Buffalo's
	capastries var. sarson	nerifolia Juss. Ex.	curd)
	prain), Musta (Cyperus	Steud.)	Arka tvacha [bark of
	rotandus Linn.)with		Calotropis
	Navnita (cow's butter)		procera(Ait)R.
	3. Navnita(cow's butter)		Br]powderwith water.
	and Tila (Sesamum	11.Vajrivisha ¹¹ (Eup	Cold Water with
	indicum Linn.)with	horbia antiquorum)	Sharkara (sugar) Cold
	Sharkara (sugar), Ghee	······	air, shade, clothes like
	Subsidespainfulcondition		cotton
	scaused by <i>Bhallattaka</i>		14
5. Bhanga ⁶	Cows curd, <i>Shunthi</i> ,	12. Snuhi Arka ¹²	1. Local application of
(Cannabis sativa	freshroot of Sandesada –	(Euphorbia	<i>Chinchapatra</i> (leaves of
Linn.)	[fresh roots of <i>Delonix</i>		Tamarindusindica Linn.)
L11111.)		Nerifolia Linn.),	triturated with water.
	<i>elata</i> (L.) Gamble] triturated with water or	Arka(Calotropis	
		procera(Ait) R.Br.)	2.Intake of <i>Suvarngairika</i>
	administration of		(red ochre) with Jala
	Ardraka (Zingibar		(water)
7	officinale Roscoe)	13.	Dhanyaka (leaves of
6. Ucchhata ⁷ (Abrus	1. Meghnada (Juice of	Dantibija ¹³ (Baliosp	Coriandrum sativum
precatorious Linn.)	Amaranthus spinosus	ermam montanum	Linn.)triturated with
	Linn.) with Sharkara	Muell-Arg.//Croton	water taken along with
	(sugar)	tiglium Linn.)	Shita (sugar)
	2. Only Godugdha	14.Vishakochak ¹⁴	Repeated continuous
	(cow's Milk)Alone	(Strychnus nux	consumption of Ghee
			· · · · · · · · · · · · · · · · · · ·
7. Madya ⁸ (Alcohol)		· •	along with Madhu
7. Madya ⁸ (Alcohol)	Madhu (honey), Khajura (Phoenix sylvestries	vomica Linn.)	along with <i>Madhu</i> (honey) <i>Sharkara</i> (sugar)

15. Lukarog (Loo) ¹⁵	Chinchamalaka
0 ()	0
Due to Dushta Vata	(Tamarindus indica
(bad air)- hot and	Linn.) and Sharkara
stormy air , Ravi	(sugar)separately given
Tapa- extreme heat	with Madhu (honey)and
of the sun	Jala (Water)
16. Daha ¹⁶ caused	Honey and water taken
by Shitala (Measels)	with sugar
	Nilika(Indigofera
	tinctoria Linn.) triturated
	with Ghee

DISCUSSION

In Tritiya Samuddesha number of drugs used in Anupanamanjiri is forty three. Out of which twenty seven are of plant origin, seven of animal origin, four are metals and minerals and five are others. Tritiya Samuddesha consists of twenty two verses and it explained the management of toxicity of fifteen poisonous plant drugs. And other two treatments are described for Lukarog and Daha which does not come under toxicity. Anupana used are totally nine in number -Ghee, Madhu (honey), Sharkara (sugar), Jala (Water), Guda (Jaggery), Godugdha (cow's Milk), Shita(sugar not in powdered form, it is considered as more cold in potency), Khanda (sugar in the form of big crystals), Navnita (cow's butter). In Kuchala Vishaktata, use of antidotes are indicated as continuous or regular basis. Such frequency for intake of antidote is not mentioned vividly in other poisons. Suvarngairik (Red ochre) is the only mineral which is used as an antidote and Tankana (Borax: Na₂B₄O₇, 10H₂O) and

Saindhava (Rock salt) are classified under other criteria. Remaining all poisonous substances are of plant origin drugs.

Upadhatu explained are Suvarnagairika (*Red ocre*-Fe₂O₃) and *Tutthaka* (*Blue vitriol* CUSO₄, 5H₂O). Zoological name of drugs of animal origin are Godugdha (Cow's Milk)-Bos Taurus, Madhu -honey, Navnita (Cow's butter)- Bos Taurus, Mahish Dugdha (Buffalow's milk) or Mahish Dadhi curd)-(Buffalow's Bubalus bubalis. Goghrita-Bos Taurus. Patavana (Gossypium) similar family named as Malvaceae., but difficult to decide what is expected for the specific purpose of antidote activity. Patavana is controversial for its botanical identity.arboretum//kydiacalycina Roxb) comes under controversial drug of plant origin as both belongs to Otherwise all forty one drugs mentioned in this Samuddesha are noncontroversial and can be easily used in day to day practice.

CONCLUSION

Every system of medicine has its own line of treatment for removing toxins caused by poisonous substances. *Ayurveda* has explained several antidotes which are easily available at home too. But such remedies are not much explored. Throughout the world, Lower socioeconomic regions of the



society shows greater mortality due to poisoning as there is little awareness and publicity for emergency treatment. This article focuses on the explanations of specific antidotes of plant poisons explained in Anupana Manjiri, which are easily available and applicable by a laymen. Third Samuddessha of Anupana Manjiri is discussed here to simplify the anti poisonous remedies for Sthavara Visha (Plant origin). This is the high time to diverge the scope of research in the turf of antidotes for new improved antidotes.

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