

eISSN - 2348-0173 Vol-2 / Issue-3 - May - June - 2014

INTERNATIONAL JOURNAL OF AYURVEDA & ALTERNATIVE MEDICINE

Bi-Monthly Peer Reviewed International Journal

REVIEW ARTICLE

e*ISSN 2348- 0173*

CONCEPT OF 'VISHA' - AN AYURVEDIC PERSPECTIVE

Kalpana R. Chavhan^{1*}, Shama S. Suryawanshi ²

- 1. * Assistant Professor, Department of Agadtantra, Government Ayurved College, Nagpur. Mob.no-9422167952, Email- drkalpanachavhan@gmail.com
- 2. Professor, Department Of Agadtantra, Government Ayurved College, Nagpur. Mob.no.-9403267021, Email-shama56surya@gmail.com

Article Received on	-	20 th May 2014
Article Revised on	\aleph	10 th June 2014
Article Accepted on	-	15 th June 2014

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*Corresponding Author

Kalpana R. Chavhan

Assistant Professor, Department of Agadtantra, Government Ayurved College, Nagpur. Mob.no-9422167952, Email-

drkalpanachavhan@gmail.com

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ABSTRACT:

Agadtantra is one of the eight branches of Ayurveda, which deals with the study of poison and it's treating measures .The term visha is derived for causing vishada *i.e.* depression of sprits, even for *devatas* . When *visha* is administered , it disturbs all the functions of body , makes them abnormal, which degrades the health of human being resulting death. While using any drug it is important that the physician should be aware of its properties and it should be administered with the treating intensions. The real difference between a medicine and a poison is the intent with which it is given. An acute poison can become an excellent drug if it is properly administered, and similarly even a drug, if not properly administered, becomes an acute poison. Action of a drug on the body is depend upon various factors like it's properties, dose, mode of administration etc. But it is important to know that what properties of a substance decides either it act like a medicine or like a poison on the body. As properties of a *dravya* is important to know it's mode of action, it is useful to decide the line of treatment for specific poisoning. This review article includes discussion about the Ayurvedic concepts of properties of poisonous substances, their origins and factors responsible for their mode of action.

Key Words: Toxicology, *Agadtantra*, *Visha*, *Visha-guna*, Poison

INTRODUCTION

Toxicology is one of the branch of medical science which deals with poisons with reference to their sources, properties, toxic symptoms produced by them, the lethal dose, treatment to combat the toxic effects, methods for detections of poisons [1] It is included under Agadtantra, one of the eight branches of Ayurveda.[2] On account of filling with depressed spirits or Vishada it is termed to be visha i.e. poison.[3] It is a substance on administration disturbs all the functions of body i.e. Dosha, Dhatu, Mala and makes them abnormal, which degrades the health of human being resulting death. Medico-legal experts expresses that the real difference between a medicine and a poison is the intent with which it is given. Ayurveda is a science which is having preventive and treating principles towards the diseases. There are many causes of different diseases mentioned in the ancient texts. Poisons are one of them. By any means poisons get entered in the body and disturb the normal functions of the body. For treating it, various medicinal formulations are mentioned in Ayurveda. They are termed as *Agada* i.e. Antidotes. These are the substances which prevents the action of poison and neutralize it's effects. Medicolegal experts expresses that the real difference between a medicine and a poison is the intent with which it is given. According to Charaka even an acute poison can become an excellent drug if it is properly administered, and similarly even a drug,

if not properly administered, becomes an acute poison. [4] The action of poison is depend upon it's properties and is called as *guna* of that substance. The substance having 10 *gunas* is considered as most toxic in action. [5] There are differences of opinions about the numbers of *gunas* among all the *Aacharyas*. These properties of *Vishadravya* will decide that what kind of toxic effect it will create in the body and how it will get treated. Due to the properties like *Ashukaritwa*, *Ushna*, *Tikshna vishadravya* get rapidly spread in the body so it is a main content of many *ayurvedic* medicinal formulations.

So for understanding the poison, it's mode of action and treatment it is important to understand the concept of its *gunas* and some other factors which are responsible for it's mechanism of action.

Aim and Objective-

- -To study the concept of *Visha* according to Avurveda.
- -Recollect and arrange all the scattered references in different ancient texts related to *Visha*.

Materials and Method-

- -The whole study is based on literary review collected from classical *Ayurveda* texts and modern books.
- -This study is carried out under following heads-
 - 1. Definition of Visha

- 2. *Vishotptti*-(Mythological Origin of Poison)
- 3. Classification of Visha-
- 4. *Visha Gunas*-Ten attributes of poison
- 5. Panchabautik investigations
- 6. *Visha prabhava*-(Effect of poison on the body)
- 7. Discussion
- 8. Conclusion

Definition of Visha

The word 'Visha' is made with the two words i.e. *Vish+ka,* which means to occupy or to get spread rapidly. A substance which rapidly gets spread in to *Rasadi dhatus* and occupies the body is called as *Visha* [6]

On account of filling with depressed spirits or *Vishada*, it is termed to be *visha* i.e. poison. As the world became despaired at the sight of it, (or became *vishanna*) it was called *Visha* by *Charaka*.^[7] *Chakrapani* described it as *Visha* gives *vishada*.^[8] *Sharangadhara* defines that the *Visha* is a substance which is *Agnibhutapradhana*, destroyer of life and *yogawahi* i.e. prime synergetic in action.^[9] According to modern medical science poison is defined as a substance which after being absorbed in to the living organism or by its chemical action on the tissues, produces an injurious effect on the body.

Vishotptti-(Mythological Origin of Poison)

- 1. *Shrimadbhagwat* [10]-In days of yore, while the ocean was being churned by the Gods and the demons for obtaining *Amruta*. Before the appearance of *Amruta*, *Visha* appeared from the ocean. All the Gods and demons got irritate with its presence, then they requested to lord Shiva to have the *Visha* for the well being of the universe. So Lord Shiva drunk the poison. While drinking, some drops of it fall on earth, which got deposit in plants and animals and thus the plant and animal poisons generated.
- 2. *Charaka*^[11]-While the ocean was being churned by the Gods and the Demons for obtaining Amruta, a ferocious person who was resplendent with aura, and who had four fangs, tawny hair and fiery eyes emerged. The world became despaired (Vishanna) at this site because of which he was called the poison or visha .Lord Bramha deposited this poison jangam and sthavara substances. Therefore, the poison originated from water (Ambusmbhavam) is of two types and it resembles fire (pavakopam) [12]
- 3. Shushruta[13]-It is stated that there was a

devil named Kaitabha, who out of vanity, obstructed in various ways the work of Lord *Bramha*, when he was engaged in the creation of nature. For acts of Kaitabha God Bramha grew very angry. His wrath then became manifest and came down in a violent form from his mouth. It burnt the mighty devil to ashes. Even after the destruction of the demon, that wonderful and terrific glow went on surprisingly at the sight of which all the Gods were deeply depressed in sprits (vishada). The term Visha is so called on account of its filling the Gods with vishada. There upon, Bramha after having created all living beings cast the remaining wrath both into inanimate and animate creations

Classification of Visha-

On the basis of origin Visha has been classified mainly into two categories namely Sthavar visha i.e. plant and mineral poisons, and *Jangam visha* i.e. animal poisons where the sites of *Sthavar*^[14]and jangama visha [15]has described ten and sixteen respectively.[16] Sushruta, while describing the instantaneously fatal poison, described sthavara, Jangama and Krittrima vishas i.e. artificial poison.[17] Charaka included another type the gara visha along with the above three types.[18]. Chakrapani opines that, the combination of two-non poisonous materials is called *gara* and which produced by the combination of two poisonous materials, is called krittrima or artificial.[19]. Vagbhata described two main types i.e. natural poison which are *Sthavar* and *Jangam visha* and artificial poison i.e. *Garavisha*.^[20] Certain texts also classifies *vishdravyas* in *Mahavisha* [21] and *Upavisha* [22]. *Dravya* with high toxic potency called *Mahavisha* and the *visha* with less potency called Upavisha.

Visha Gunas-Ten attributes of poison

There are many factors responsible for the specific action of a *dravya*. Some *dravya* act according to its *rasa*, some according to *virya*, some according to *guna* and some of them act according to its *prabhava*.^[23] Based on these rasadi gunas, classification of *vishas* or tests of *vishas* are not described in the classical texts of Ayurveda. *Visha* contains 10 *gunas*. ^[24] *Visha gunas* according to *Ayurvedic* texts are described in Table no 1.These ten *gunas* vitiates the *doshas* and destroys the *Ojas*. The then properties of *visha* can be explained in following way:

• *Laghu* (Lightness)- is opposite to *Guru guna* (heaviness).It is also responsible for *Lekhankarma*. [25] *Dravya* having this *guna* are

easily digestible and causes lightness in the body.^[26]

- *Ruksha* (rough)-is apposite to the *snigdha* and causes the *stambhana* (withholding), *kharatva* (harsh), *kathinatva* (hardness) [27], and responsible for the *shoshantva* (emaciation) of the body.[28]
- *Ashu*(quick acting) [29]-Due to its quickness it get spreads all over the body like the oil which spreads immediately on water.
- *Vishada*(non-slimmy) [30]-is opposite to *picchila* and removes moistness and helps healing of ulcers
- *Vyavaye* (Quickly absorbed)[31]-It first spreads all over the body and then get digested.
- Tikshna (Sharpness) [32]-Gives rise to burning sensation encourages suppuration and increases secretions.
- Vikashi (Depressant) While spreading all over the body produce looseness of the ligaments.
- Sukshma (minuteness) [33]-Property due to its minuteness enters into the minutest of channels.
- *Ushna* (Hotness) [34]-Is opposite to the *sheeta*.
- Anirdeshya Rasa (Tasteless) [35]-Which does not have any specific rasa or taste
- Apaki/Avipaki (indigestible) [36]-Which is not digestible.

Sharangadhar samhita described the visha guna as, the drugs possessing properties like vyavaye, vikasi, sukshma, chedi, madavaha, agneya, jiv<mark>itha</mark>ra and *yogavahi* is called as *visha*.[37] Effect on the body and responsible visha Guna is described in Table no.3[38]. While describing about the origin of the visha, Sushruta described another property of the *visha*; just as the atmospheric water which has imperceptible and undeveloped taste, of ground or soil on which it fall upon, so it is the nature of the tasteless visha that it partakes up the specific taste (rasa) of thing or animal in which it exists.^[39] The nature of visha is considered exactly opposite to that of the Ojas.[40] so when visha is administered or enters the body; causes destruction of ojas which leads to death. Difference between visha, Madya ,Ghrita ,Dugdha and Ojas are described in table no.2. Ojas is a substance through which all living beings gets nourished and thus helps to sustain the life of an individual. It is only the foremost substance responsible for the union of Shukra and shonita thus leads to the formation of fetus. This is the essence of all the seven dhatus. [41] Madya (Alcohol) is having similar properties as that of *Visha* contains but potency of *guna* is more seen in visha than Madya. [42] Instead of Anirdeshya Rasa Madhya is having its amla rasa. [43]. Again like Visha alcohol destroys all the attributes of Ojas

which is the abode of *Satva* by virtue of its ten attributes and result of this affliction, the mind gets agitated and so causes intoxication. [44]

Panchabautik Investigations

All matter is constituted of five mahabhutas. [45] Thus all the *dravyas* in the world are formed of panchbhutas only. According to siddhanta, though the mahabhutas differ in their ratio in different dravyas, they are named by the predominant mahabhuta such as parthiva, aapya, tejasa, vayavya and nabhasa dravyas respectively. [46] Details of visha guna, Mahabuta combination, Dosha prabhava and Action on the body is described in Table no.4 [47] In the same way, visha dravyas are also constituted by these panchamahabhutas only. Specific panchamahabhutic dominance of visha dravyas was not described in the samhitas. Dalhana while commenting on Sushruta's explanation of detection of poisoning by use on animals, Vishanna pariksha is explained in the following way by him [48] -

Shabda Pariksha-when poisoned food burns making loud cracking sound.

Rupa Pariksha-when cast into the fire it acquires the colour of peacock's neck

Gandha Parikhsa-when it burns it emits irritating fumes and it cannot be speedily extinguished

Rasa Pariksha-Flies dies after flying over the poisonous food.

Sparsha Pariksha-Features are explained in the context touch of poisonous food

Visha prabhava-(Effect of poison on the body)

After getting entered into the body the poison immediately vitiates the blood simultaneously it vitiates all the tridoshas and its respective sites and at least proves to be fatal for an individual after getting entered into the hridaya (heart) [49]. The blood after getting vitiated by poison leads to tingling or pricking sensation all over the body, leads to red colour patches on the skin, sweating, horripilation, feeling of moving over the body, sever aches and pains all over the body, yawning, desire for the food stuffs having cold potency. The dominant or the potency of tridosha also gets debilitate and looses their potency by mixing up with the blood which gets vitiated by the poison, thus leading to the death or hampering of the health.^[50] The poison first vitiates that specific dosha by which it is predominant, where the poison gets localized produces the diseases first to that organ. [51] If the poison is present in *Vatashaya*, produces diseases of Vata as well as diseases of Kapha. If poison is present in Pittashaya, it produces diseases of Pitta and Kapha, similarly if it is present in Kaphashaya, it produces diseases of *Kapha* as well as *Pitta*. [52]

DISCUSSION

Visha is a substance which disturbs all the functions of the body, which results into fetal conditions. Ayurvedic concept of poison is slightly different as that of modern medicine. Medico-legal experts promote the thought that difference between a medicine and a poison is the intent with which it is given as that of Ayurveda expresses the concept that an acute poison becomes an excellent drug if it is properly administered, and similarly even a drug if not administered properly can become an acute poison. According to Ayurveda every dravya (substance) can create a specific action on the body and this action depends upon the guna (properties) of that dravya. Perticular guna decides the particular action of that dravya on the body. There is a difference of opinions about the number of vishaguna present in the vishadravvas. But the action of vishadravvas in the body knew to all acharyas. It is mentioned in the texts that the vishadravya having ten gunas is considered as more toxic in action e.g. Vastanabha, and it's called as Mahavisha by acharyas. Due to

properties like *Ashukaritwa*, some Tikshana vishadravva get spread rapidly in the body. So for the quick action of medicines many ayurvedic formulations contain these vishadravyas as their ingredient. By utilizing these properties of vishadravyas medicines can be made more effective. All the substances in the world are formed of *Panchamahabhutas*. In the same way, vishadravyas are also constituted by these Panchamahabhutas only. Each vishaguna contains a specific Mahabhuta combination and so as having a dosha prabhava which is responsible for particular action in the body e.g. Laghu guna contains mahabhuta like Teja, Vayu and Aakash, so it act like Vataprakopak and Kaphashamak and generates a effect of *Langhana* in the body.

So *guna* is responsible for specific action of a *vishadravya* in to the body. Hence it is important to know that which *vishadravya* containing which *gunas* so it will be better for understanding it's action in the body and will also useful to minimize it's hazardous action and helpful for treating toxicity.

Table No.1: Classification of Gunas

Sr.no.	Charaka	Sushruta	<i>Vagbhata</i>	Sharangadhar
1	Laghu	-	Laghu	4
2.	Ruksha	Ruksha	Ruksha	
3.	Aashu	Aashu	Aashukarita	5
4.	Vishad	Vishad	Vishad	
5.	Vyavaye	<i>Vyavavaye</i>	Vyavaye	Vyavaye
6.	Tikshna	<u>Tik</u> shna	Tikshna	5
7.	Vikasi	vikasi	Vikasi	Vikasi
8.	Sukshma	Sukshma	Sukshma	- 77 -
9.	Ushna	U shna	Ushna	Aganeya
10.	Anirdeshyarasa		Avyaktarasa	-
11.		Laghupaki	Vishampaki	·
12.	- 5			Chedi
13.	- /		Medawaham	<u>Me</u> dawaham
14.				Yogwahi Y
15.		1.	-	Jivithara

Table no.2: Comparison of Gunas-Visha, Madya, Ojas, Ghrita, Dugdha

Visha	Madya	0oja	Go-dugdha [53]	Go-ghrita [54]
Laghu	Laghu	Guru	Guru	Laghu
Ruksha	Ruksha	Snigdha	Snigdha	Snigdha
Tikshna	Tikshna	Mrudu	Mrudu	Mrudu
<u>Ushna</u>	<u>Ushna</u>	Sheet	Sheet	Sheet
Sukshma	Sukshma	Bahal	Sandra	Yogwahi
Ashukari	Ashukari	Prasanna	Prasanna	Prasanna
Vyavaye	Vyavaye	Sthirra	Manda	Saumya
Vikashi	Vikashi	Slakshna	Slakshna	Slakshna
Vishada	Vishada	Pischil	Pischil	Alpabhishyyandi
Anirdeshyarasa	Amla	Madhur	Madhur	Madhur
Apaki	-	-	-	-
Yogawahi	-	1	-	-
Madawaha	-	1	-	-
Chedi	-		-	-
Jivithara	-	-	-	-
-	-	•	-	Rasayana
-	-	1	-	Kaphakar

Sr.No.	Effect In the body	Responsible Guna	
1.	Enters in all body parts	parts Sukshma,Ashu,Vyavaye	
2.	Disturbunces in Marmasthana	Tiksshna,Vikasi,Chedi	
3.	Reflecting Buddhi	Tikshana,Vikashi,Madawaha,Chedi	
4	Raktadushti	Sukshma, Tikshana	
5.	Vaatdushti	Ruksha	
6.	Pittadushti	Ushna,Agneya	
7.	Kaphadushti	Anirdeshyarasa	
8.	Incerasing Aahar-rasa	Anerdeshyarasa and Yogwahi	
9.	Spreading rapidly	Ashu,Vyavaye	
10.	No any change	Vyavaye	
11.	Not get digested	Apaki -	
12.	Minimizing the treatment measures	ng the treatment measures Laghu	
13	Difficult to treat	Laghu,Apaki	
14.	Loosing Body and Mind	Loosing Body and Mind Vishad,chedi	
15.	Sudden Death	Ashu,vyavaye,Vikashi	
16.	Destroying <i>Ooja</i>	All gunas	

Table no.4: Panchabautik Investigations

Sr.No.	Vishaguna	Mahabuta combination	Dosha Prabhava	Main Function in the Body
1.	Laghu	Teja+Vayu+Akaash	Vaat1,Kapha↓	Langhana
2.	Ruksha	Teja+Vayu+Prithvi	Vaat1,Kapha↓	Shoshan
3.	Ushna	Тееја	Pitta↑,Vaat↓,Kapha↓	Swedana
4.	Tiksna	Teeja	Pitta↑,Kapha↓	Shodhana
5.	Sukshma	Teja+Vayu+Akaash	Vaat1 €	Vivarnata
6.	Vishada	Teja+Vayu+Akaash₊ Prith <mark>vi</mark>	Vaat↑	Prakshalan

CONCLUSION

Properties of a substance decides either it act like a medicine or like a poison in the body. An acute poison can become an excellent drug if it is properly administered, and similarly even a drug if not properly administered becomes an acute poison. So it is important to know that what properties of a substance decides either it act like a medicine or like a poison in the body. All actions of Visha are depends upon the Gunas that it having. Particular *guna* is responsible for particular effect on the body. Once we come to know the guna pradhanya in a poisonous substance it will be easy to treat the condition by using dravyas which are having opposite gunas. So for proper treatment of poisoning it is important to know about the gunapradhanya that the substance is having. For knowing the sadhya-sadhyatwa and fatality, gunas are also important. The substance containing 10 numbers of vishaguna is more fatal and difficult to treat

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CITE THIS ARTICLE AS -

Kalpana R. Chavhan, Concept Of 'Visha' - An Ayurvedic Perspective, Int. J. Ayu. Alt. Med., 2014; 2(3):14-20

Source of Support - Nil

Conflict of Interest - None Declared



INTERNATIONAL JOURNAL OF AYURVEDA & ALTERNATIVE MEDICINE

#401/8-A, 4th Floor, Shiv Shrishti Apt.
Nardas Nagar, TP Rd., Bhandup (W), Mumbai – 400078
E:mail-editorijaam@gmail.com, Web- <u>www.ijaam.org</u>