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CONCEPTUAL STUDY OF GARA VISHA, RELATION WITH FOOD POISONING

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ABSTRACT

In Ayurveda the Gara visha is considered to be as one of the form of Kritrim visha. It is formed by combination of two or more than two poisonous or non-poisonous drugs, which ultimately affects the whole body by vitiating all the doshas, dhatus and srotas in the body. Agad tantra which is a branch of Ashtang Ayurveda has given more emphasis over Garavisha (Artificial poisons) as well as natural poisons i.e. Sthavar and Jangam visha. Detailed explanation of the Garavish, its definition, sign and symptoms, mode of administration and treatment has been described in our samhitas. Food poisoning is the resulting from ingestion of contaminated bacterial and nonbacterial products, can be co-relate with Gara visha. It is caused due to bacterial infection of food or drink. The non-bacterial product includes poisons like plants, animal derivatives, chemically inter reaction of food from packing materials etc. Gara vish is nothing but samyogaj vish when two compounds react with each other and it may form toxin which lead to food poisoning. foods and drinks as a additives or adulterants which causes chronic poisoning and this gara vish also induces food poisoning, if consume persistently since prolong period. This article review base on the concept of Gara visha which has significant role in causing toxic symptoms and also it can called food poisoning in contemporary science due to its various uses in present society and Ayurveda offers effective management also.

KEYWORDS: Garavish, Samyogajvish, Ayurveda, Food poisoning, etc.

INTRODUCTION

Agad tantra is the science which deals with the study of poisons, their action, detection and treatment. Agad tantra is one of the branch of Ashtanga Ayurveda, which deals with natural poison as well as artificial toxins, their harmful effects and treatment also. Natural toxins which are Sthavara, Jangama viṣha, and artificial toxin as Gara visha are explained in Agad tantra. Gara visha is prepared artificially by mixture of various substances to produce various disease. Kritrim visha is called as gara vish according to vagbhatta. [1] Gara Visha means the Dravya (substance) which causes Vishaad (sorrow or depression) is also known as Visha, Laghu, ruksha, aashu, vishad, vyavayi, tikshna, vikaashi, sookshma, ushna, anirdeshya rasa are the ten qualities of poisonous drugs.^[2] Poison is a substance which when administerd, inhaled or ingested capable of acting deleteriously on humanbody and produces ill health. Poison may be synthetic, mineral, vegetable or of animal origin, [3] gara visha is one of them.

Gara visha may be given by Anna (food), Pana (drinks), Anulepana (application), Ustadana (massage), Pariseka (bath), Anjana (eye lid application) etc several method

mentioned in samhita.[4] Out of these methods, the first one is Anna (food). Anna is very easy to get adulterated with non-poisonous or poisonous substances and produce hazard effect. Ayurveda has mentioned that the various human waste like raj, artav, (menstrualblood), the powder of insects and virudha aushad bhashma used to produce gara visha along with food. Since ancient time Anna is used as media. Today's scenario is also like that, but this etiological factor of gara visha are not being used now a days because of its weird odour and taste and chances to expose. Today's era, there are so many food additives such as colouring agents, preservatives, sweeteners, soft drinks, and additives milk adulterant has been used by continuously in the form of junk foods/ fast food since many years. There are so many toxic substance has been taken by human being which act equally as gara visha along with foods and drinks as a additives or adulterants which causes chronic poisoning and this gara vish also induces food poisoning, if consume persistently for prolong period. [5] Most of the carbonated and soft drinks require additives and preservatives having chemical substances which are harmful to human body. Drinking water also having many types of microorganisms, pesticides, heavy metals.

Food additives and preservatives which are present in our common foods that may cause food poisoning. ^[6]

AIM AND OBJECTIVES

- To study the concept of Gara visha according to Ayurveda.
- 2. To study the relation between *Gara vish* and food poisoning.

Derivation/Nirukti

The 'Gara' word is derived from the root word "gru" with suffix "ach" which means to digluted or could be degluted which generally indicates the liquid form. From one aspect this word (Gara) meaning also come as poison. [7,8]

Definition *Brihatry* and *laghutry* has been mentioned about *Garavisha*.

Charak Samhita: Gara visha is a samyogaja visha (artificial poison) which exerts toxic effect after interval of sometime and as such does not kill the patient instantly. It produces many disease. Gara visha is Kalantara-avipaki; it means Gara visha is not to digested early it takes long time to digest and it's not fatal. [2]

Shushrut Samhita: The pulverized bodies of insect poisoning, as they do, the characteristic features of *Dushi visha* (enfeebled poison) which is laying inherent in human body; is turned into a *Gara* or chemical poison if administrated internally with anymedicine or externally with any plaster/*lepa*. [9]

Vagbhatta Samhita: Combination of parts of the body and excreta of different animals, incompatible drugs, ashes and poisonous substance which having mild potency; is known as *Garvisha*, [1] *Vagbhatta* is classified the poison into two types. One is the *Akritrim visha*

(natural poison) which is subdivided into two i.e. sthavaram and jangam visha. The other one is the kritrim visha which is called as Garvisha (unnatural or chemically prepared poison).

According to Laghutry Bhavprakash, Yogratnakar, Sharangdhar Samhita, kritrim visha is two; one which is prepared by combination of two poisonous substances called dushi visha. Another one which is prepared by combination of two non-poisonous substances called as Garvisha. Chakrapani, Kashyap Samhita and Madhav Nidana described the samyogaj visha is one of two types one which is prepared by non-poisonous substance called as Gara visha and another one which is prepared by poisonous substance called as kritrim visha. [13,7,14]

Gara Visha Adhisthana^[4] Describe in sushrut samhita as the method is given to poison may be considered as Gara visha Adhisthana, these are Anna (food), Pana (drinks), Dantakastha (tooth brush), Kasaya (decoction), Nasya (nasal drops), Dhuma (fumigation), Abharana (ornaments), Anulepana (application), Ustadana (massage), Parisheka (bath), Anjana (eye lid application), Vastra (clothes), Sayya (beds), Paduka (foot-wears).

Methods of Administration

Some women, who wish to keep their husbands under their control and women who are intimate with the king administer *gara visha* (artificial poison) mixed with food. Administration is by the combination of parts of the body and excreta of different animals, in compatible drugs, ashes and poisonous substance of mild potency is known as *gara visha*.^[1] or mixing the food with sweat, menstrual blood, and different kind of excreta of their body.^[2] As a result the person who consumes this *gara vish* becomes emaciated day by day and suffers from many diseases.

Symptoms / Lakshana of Garvisha

Acharya charak ^[2]	Vagbhatta ^[15]	Yogratnakar ^[11]
-Pandu (pallor skin)	-Pandurog	-Pandu
-Krisha	- Udarrog	-Krisha
-Poor digestion	-Mandagni	-Mandagni
-Flatulence	-kaas, shwas	-Laziness
-Udarrog	-fever	-Heaviness
-Edema on hands and feet	-Adhman	-Cough
-Grahani	- Edema	-Dysponea
-Rajyakshma	-Increase the length of	-Loss of strength
-Gulma	lever stomach& spleen	-Hemorrhage
-Wasting	-Dhatu kshaya	-Edema
-Fever		-Yellow discoloration of eyes
-In dreams he mostly sees cats, jackals,		
moongoos, monkey, dried rives and trees.		
-In dreams having lost his sense organs, he		
sees himself as fair complexion or devoid of		
ears and nose.		

Diagnosis^[2] *Gara visha* is often eaten mistakenly then the patient does not feel anything wrong, immediately and can be treated at the onset of symptoms. If doctor suspect poisoning before staring the treatment the

physician should examine and should ask as to what when and with whom he has eaten. After obtaining the information he should start a treatment as soon as possible by emesis.

Treatment/ Gara Vish Chikitsa

Acharya charak ^[2]	Vagbhatta ^[15]	Yogratnakar ^[11]
1. Vaman- administrate fine	1.Vaman	1. sharkarasuvarnadi
powder of copper along with honey	2. Sharkara suwarnadi leha	leha.
for cleansing the heart.	3. Suwarnamakshika	
(hrudaya shuddhi)	and suwarnabhasma when given with sugar	2. Putrajivmajja Yog.
	and honey cure garvisha.	
2. Suvarnaprash-patient should be	4. Treatment of mandagni	3. Grihdhumadi grita.
given one <i>shana</i> of the powder of	The powder of murva, amruta, tagar, pipli,	
suvarna [gold]. Suvarna controls all	patol, chavya, chitrak, vacha, musta, vidanga	4. Paravatadi hima.
poisons and poisonous	mixed with either butter milk, warm water,	
combinations. Poison does not stay	water of curds, meat soup or sour liquid	5. Garnashan ras.
in the body on taking suvarna like	should be consuming by the patient having	
water on lotus leaf.	<i>Mandagni</i> , destroyed by artificial poisoning.	
	5. Treatment of pain, trishna, kas, shwas,	
3. Agadpana- buffalo ghee cooked	hikka, jwar updrava-ghrita and trifala juice	
with nagdanti ,trivitit, danti	with makoy shake- shwas kas nashak.	
dravanti, milk latex of snuhi and	-decoction prepared from the meat of the	
madanfala along with one adaka of	pigeon, shathi and pushkarmul cooled and	
cow's urine is useful incuring	consume.31	
patients suffering from the poisons	6. Treatment in damaged skin	
of snake's bite, insects and from	Apply lepaof renuka, chandan,	
gara.	priyangu,khason skin.	
	7. Treatment of ojkshaya	
	Ubtan of manjishta, apamarg, neem, haldi,	
	papal and chandan.	
	8. Milk and ghee is supposed to be the best	
	diet in gara visha.	
	9. Nagdantyadi ghrit	

A MODERN REVIEW

According to modern *Gara visha* can be co-relate with food poisoning, *gara visha* can be one of cause which produces food poisoning.

Food Poisoning^[16]

Food poisoning is administration of toxic substance in body with food because of improper handling, cooking and packing of food articles. Food poisoning, also called food borne illness, which is caused by eating contaminated food. Food poisoning caused by infectious organisms including bacteria, viruses and parasites or their toxins are the most common causes and is restricted to poisoning by articles of food due to contaminated toxic principle, metallic contamination and food allergy. This poisoning is caused by salmonella group of organisms, enterotoxins formed by staphylococcus. Another type of food poisoning is botulinism caused by chlostridium botulinum; multiplies in food and produces exotoxin before it is consumed. This toxin are produced in stomach along with food it can be considered as *Gara visha*.

Causes of Food Poisoning^[17] Microbial Contamination

Bacteria	Viruses	Protozoa	Fungi
-Bacillus cereus	-Rotavirus	-Giardia lamblia	-Aspergillus flavus
-Staphylococcus aureus	-Adenovirus		-Fusarium roseum
-Salmonella group (except S. typhi)	-Parvovirus		
-Shigella			
-Vibrio			
-Escherichia coli			
-Campylobacter			
-Yersinia enterocolitis			
-Clostridium			

Nonmicrobial Contamination

Vegetable	Animal	Chemicals
origin	sources	
-Lathyrus	-Poisonous	-Flavouring
sativus	fish like shell	agents
-Mushrooms	fish etc.	-Colouring
-Argemone	-Mussel	agents
Mexicana		-Preservatives

Commonly Symptoms- Commonly symptoms are seen in food poisoning as mention below, symptoms may be differ cause it depends on the causative factors. [18] Common cases of food poisoning will typically include at least three of the following symptoms:

Commonly symptoms	Life-threatening food poisoning symptoms
abdominal cramps	difficulty in seeing or speaking
Diarrhoea	diarrhoea persisting for more than three days
Nausea, Vomiting	symptoms of severe dehydration, which may include dry mouth, passing little to no urine, and difficulty keeping fluids down
Loss of appetite	bloody urine
Mild fever	a fever higher than 101.5°F
Headache	

DISCUSSION

The concept of Gara visha explained in Agada tantra and it has wide application. Today's life style is changed, prolonged uses of adulterated food or incompatible food and people who are following bad habits are effected by Gara visha. It is mainly classified two types, 1. Nirvisha dravya samayogaja visha- which is combination of two non-poisonous substance, 2. Savișha dravya samayogaja vișha- it is combination of two or more than two poisonous substance. Hence Gara visha is mixture of various artificial substances which produces toxic effect on human body. Gara visha is prepared artificially by the mixture of various substances to produce various diseases. Garavisha is classified under kritrima or samyogaja visha by Acharyas. Aacharya Charaka has told that gara visha is Kalantara-avipaki (delayed absorption of digestive substance) and produces chronic toxicity. The toxicogenesis of food, milk and drink additives is near about similar to that of gara visha which reduces jatharangi (digestion) and absorption in gastrointestinal tract. This study has illustrated the corelation of Gara visha and food poisoning. Gara visha is a cause to produce food poisoning because gara visha is a samyogaj visha. When two or more things meet each other and after this reaction, toxin formation which can lead to food poisoning, and its various health hazard effects on body.

CONCLUSION

Ayurveda has explained Garavisha as artificial poison. Wonderful concept of Gara visha explained by Ayurveda. The possibility of exposure of toxins due to using various chemical agent, food preservatives and many more things in our changing lifestyle is nothing but gara visha. Gara visha is nothing but composition of two non-toxic elements that lead to form toxic element which deteriorate well-being of individual. Unknowingly in our routine life activities we are exposed to such type of toxic materials. Due to the changing life style people are exposed to one or other kind of poisons in their day to

day life. This exposure is in the form of food, drinks, drugs etc. If this type of toxication in food it lead to food poisoing and it can cause serious health hazards such as allergy, asthma, carcinogenic changes, skin disorders, neurological changes, etc. This article aims to understanding concept of *Gara visha* and relation between food poisoning and *gara visha* and its health hazards and its *Ayurvedic* management by detoxification.

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