

Literature Review of Ama in Ayurveda: A Review

Bijay Humagain, Sangita Maharjan²*

¹BAMS Student; Ayurveda Campus and teaching Hospital and ²TA & Head; Department of Roga Nidan evam Vikriti Vigyan, Ayurveda campus, Institute of Medicine, Tribhuvan University, Kirtipur, Kathmandu, Nepal

ABSTRACT

Ayurveda is an ancient system of medicine aiming for the maintenance of healthy condition of healthy individual firstly and eradicating diseases of ill person. Ayurveda system of medicine have its own basic principle like dosha, dushya, Agni, Ama in its text like Charaka Samhita, Sushrutha Samhita, Asthanga Sangraha etc. Ama is one among them mentioned in ayurveda. Ama is also taken as toxin or undigested food particle which is produced due to the hypo-function of Agni or disbalance of Agni which is also considered as unripe /unmetabolized food particle. Ama is that condition which lead to different pathological condition like grahani, Amavata etc. Ama is condition which is produced due to agnimandya, since agnimandya is the cause of all diseases so Ama is also considered as root cause of various diseases. The concept of Ama is unique principle for understanding pathophysiology of diseases. Ama has great important in understanding nidana and chikista of diseases. There are different kalpa and medication mentioned as per avasta i.e, Sama avastha and Nirama Avastha. The Vaidya who identifies avastha of Ama and treat the diseases as per avastha of Ama becomes Successful to treat the diseases.

Keywords: Ama, Agnimandhya, Agni, Dosha, Dushya

Access the article online

Ouick Responde Code



www.jacjournal.org

DOI:

10.51648/jac.54

INTRODUCTION

Ayurveda literature has explained about different concept related to diseases pathogenesis and there is Ama explained as toxin or antigen which can trigger disease pathogenesis.1 The term Ama generally means unripe, uncooked or undigested food particle which is produced due to the Imbalance of kayaagni. Ama is toxic substance of gastro enteric origin. Disbalance of Agni and malformation of Agni produce condition like Ama. The concept of Ama is equivalent to contemporary concept of free radical theory.2 According to the ayurvedic literature the main reason of origin of disease is Ama dosha, Ama is originating from vitiation of Agni (hypo functioning of Agni) so it is necessary to know about the Ama in details.3

Concept of Agni: Pertaining to well-being, Proper functioning of digestion is of prime importance. In Ayurveda, the one responsible for digestion is termed as Agni, digestive fire. On the basis of level of digestion, gross or cellular, Agni has further been classified as; Jatharagni, Dhatwagni and Bhutagni. Among these the fire located in Mahasrotas or Jatharagni is considered prime as the product of jatharagni digestion is what dhatwagni act upon. As the product of action of jatharagni is what nourishes the whole body, if jatharagni doesnot fuction properly, then it may vitiate the dhatus and in turn, the whole body. The inconsistency in nature of jatharagni has also been classified as; visamagni, mandagni and tikshnagni. These all affect the product of jatharagni and thus the whole body. In the condition of mandagni, the product of jatharagni ends up semidigested which when transported to dhatus and acted upon by dhatwagni may give rise to free radicals or toxic metabolites which vitiate the physical constitution. These toxic metabolites are known as "Ama".4

MATERIALS AND METHODS

This literature review is based on the various ancient text book of ayurveda, journal, article, observation and various internet sources.

RESULTS AND DISCUSSIONS

Nirukriti of Ama: The word Ama is Composed from "AA" + "MA" where "AA"

*Corresponding Author:

Sangita Maharjan

Teaching Assistant & Head; Department of Roga Nidan evam Vikriti Vigyan, Ayurveda campus Institute of Medicine, Trivuban University, Kathmandu, Nepal

sangitamaharjan015@gmail.com

Submitted: 25.03.2022 Received: 17.04.2022 Revised: 23.05.2022 Accepted: 24.07.2022

means near or towards and Ma means poison, which mean those which act like toxic or poisonous substances.⁵ Food particle which undergoes Amlapaka (acidic) and apurana paka i.e, incomplete digestion is known as Ama. Those food particles which lead to avarodha (obstruction) in srotas is Ama. According to Vagbhata, due to hypo functioning of ushma i.e, Agni of body, Food which is partially digested or improperly digested yields immature rasa in amasaya later which undergoes fermentation leading to the that state of rasa which is known as Ama. Agni which undergoes paka is stated as rasaagni and fuel for normal functioning of body is stated as Aahara-rasasara and improperly formed rasa by feeble rasaagni is Ama.7 An avipaka (which does not goes complete digestion) food particle which is very viscous, foul smelling and causes sarva garta sadana (weakness of body) is known as Ama.8 The intermingling of excessively vitiated dosha are causes of *Ama* production, Like visa from kodrava.9

Due to various Nidana (etiology which causes Agni mandhya), Agni is not able to digest even small amount of the food so that undigested food after getting fermented turns into poisonous substances known as *Ama* or *Ama* visha.¹⁰

The first tissue of body i.e, rasa dhatu which was not formed properly due to weakness of digestive fire and accumulating in stomach in abnormal state is called as Ama. 11

From the above definition given from various acharya it is known that Ama is condition of premature stage of paka before attaining final paka formed at any level of Agni i.e, Jatharagni, Bhutagni and Dhatwagni.

Nidana of Ama: In context of Ayurveda, Causes (Nidana) of Ama formation can be explained in following ways:

Aaharaj Nidana: Agnimandhya is considered as main reason of Ama. Ajirna bhojana (having food during indigestion), upavasa/Abhojana (fasting), Atibhojana (excessive intake of food), Vishambhojana (irregular eating pattern), Asatmya bhojana (Habit of intake of unsuitable food items), Guru Aahara sevana (intake of heavy food), Ati sheetaand rukshya ahara bhojana, Sandusta bhojana (contaminated food intake), viruddha bhojana (incompatible bhojana), these are the dietary factors which leads to Amaj condition. 12

Viharaj Condition: Improper lifestyle like vegadharana (suppression of natural urges) and diwaswapna after food (day sleep after food) and ratri jagarana (late night awakening) leads to the Aamaj condition.

Manashika Nidana: As like dietary and lifestyle causes of Ama, mental condition also plays vital role in production of amaj codition. Mental condition like Chinta(anxiety), Bhaya (fear), Krodh(anger) etc causes Aamaj Condition.

Likewise other factors are improper administration of vaman, virechana and snehana also causes *Ama* formation.

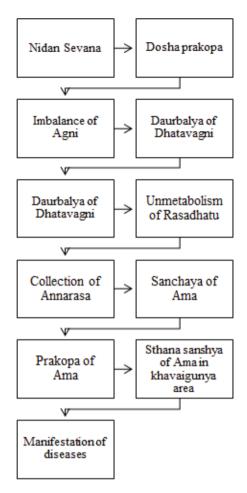


Chart 1: Ama formation and Disease manifestation¹⁶

Swarupa of Ama (Properties of Ama): According to different Ayurvedic classics *Ama* has properties like Dravam (liquid), Guru Ghana (thick and heavy), Snigdha (viscious), Pichhila(slimy), Tantumat(sticky), Aneka varna (various colour), Durgandha,13 Avipakam(incomplete digestion), Asamyuktam (nonhomogenous)¹⁴, Ashukaritwo (fast acting in nature), Vishasamlingawatyo ((resemblance poison)

Pathogenesis of Ama (Formation of Ama) Food particle which is not completely and properly digested in Amashaya (stomach) has proceed following four stages as:

Apakva Aahara rasa: Food which is not properly digested give rise to Ajjernaadi diseases.

Ama/Ama rasa: Apakva Ahara rasa formed in amashaya undergoes fermentation after certain time and give rise to condition known as Ama.

Ama dosha: Ama latter become pathogenic with interaction or combination with vitiated dosha known as Ama dosha. Ama visha: Later on, Ama dosha become more and more toxic and resembles like the properties of Visha known as Amavisha.

So, Dosha which are affected or imbalanced by Ama is known as Samadosha and it again vitiate dushya which is known as sama dhushya and this dushya leads to diseases known as sama vyadhi. 15 Sama dosha or dhushya passed through one srotas to another srotas and it leads to various diseases at different place where it is obstructed. Ama can also become as the Nidnaarthaka factor and causes khavaigunya in any srotas and it make place for the sthana samashrya of vitiated dosha and dosha dhushya samruccha occurs causing the diseases.

Clinical features /symptoms due to Ama: 17 Srotoavarodha (blockage of srotas), Bala Bhramsa (loss of strength), Sarira Gaurava (heaviness of body), Alasva (laziness), Apakti (impaired digestion), Aruchi(anorexia), Nistheevana (excessive salivation), Klama (lethargy)Mala sanga (lack of regular movement of Natural urges) and Dourbalya(Weakness).

Features of sama dosha: Dosha which are affected or imbalanced by Ama is known as Samadosha and it again vitiate dushya which is known as sama dhushya and this dushya leads to diseases known as sama vyadhi.

Srotorodha (obstruction of channel), balabhramsa (Loss of strength), Gaurava (heavines in body), anila mudata (obstruction of movement of vata), alasya (laziness), apakti (indigestion), nisthiva (excessive salivation), malasanga, aruchi (anorexia) and klama (tiredness) are sign and symptoms of Ama dosha. Nirama dosha has symptoms opposite to sama dosha.

Table 1: Symptoms of Aama according to dosha can be tabulated below18

Dosa	Saama lakshana	Nirama Lakshana
Vata	Vibandha (constipation)	Vishada (Clearness)
	Agnimandya(Dyspesia)	Ruksha (Dryness)
	Tandra (drowsiness)	Niribandha (non-
	Antrakoojana	constpated)
	Kati -parshwa vedana	Alpavedana(mild pain)
	(pain in pelvic region)	
	Shotha(swelling)	
	Toda (Pricking pain)	
Pitta	Durgandha (foul smell)	Copper colour
	Harita or shavyaya varna	mayurpiccha or yellow
	Amla, Guru (heavy)	colour
	almaidagara	Astira (unstable)
Kapha	Turbid (Avila)	Clear fluid
	Tantula (thread like)	Non slimy
	Sandra	Mixed with water
	Kantolepa (sticks in kantha)	White in colour
	Udgara (eruption)	Sweet in taste
	Slimy	

Table 2: Sama dhatu lakshana¹⁹

Dhatu	Saama symptoms	
Rasa	Aruchi(anorexia), Mukhsvairasya, srotovarodha(Obstruction	
	of channels), klaibya(impotency), pality(yellowing of hair),	
	khalitya(loss of hair), tandra(Drowsiness), hrullasa(Nausea),	
	Gourava(Heavy), angamarda (bodyache), jwara(fever)	
Rakta	Kusta(Leprosy), visarpa(Herpes), raktapitta(Hemorrhage),	
	mukhapaka(Stomatitis), Raktapradar(menorrhagia),	
	pleehavridhi(Spleenomegaly), neelika(cyanosis),	
	kamala(jaundice),vyanga(melasma), kota(urticaria),	
	piplu(port wine mark), tila(black moles)	
Mamsa	Adhimamasa(impacted wisdom teeth), arbudha(Tumor),	
	galashundika(uvulitis), alaji(phlyctenular conjunctivitis),	
	gandamala, upajihwaka (ranula)	
Meda	Atidheerga(excessive tall), atiloma(excessive hairy), aloma	
	(Absence of hair),atikrishna(blackish) ,atisthula(Obesity),	
	atikrusha(Catexia), atihasva(Excessive short), kesha jata,	
	mutra dosha (urinary defect), shosha of mukha(Dryness of	
	mouth)	
Asthi	Adyasthi(bone growth),adhidanta(extra tooth),	
	Dantabheda(splitting pain in tooth), Dantashula(toothache),	
	astibheda(splitting pain in bone), astishula(ostealagia),	
	Nakha dosha(Nail disorder)	
Majja	Bhrama(griddiness), murcha(syncope), Tamaprabesh	
	(feeling as entering in dark)	
Sukra	Kaliby(Impotency),Aharshana, Grabha srava/	
	pata(Abortion)	

Table 3: Diseases due to Aama 20

Antra Roga marga	Madhyam roga marga	Bahya Roga marga
Amaajerna	Amavata	Medoroga
Vishtabdhaajeerna	Hridaroga	Prameha
Vidagdha ajeerna	Pakshyagata	Madhumeha
Visuchika	Ardita	Urusthambha
Alasaka		Shopha
Vilambhika		Diseases related to vasti
		and kidney
Chradi Grahani		

Treatment of Ama: According to vagbhata if Ama is alpa then langhana is done, if Ama is madhyam then laghana -pachana drugs is use and if Ama is excessive then sodhana kriya should done. Sodhana Chikista should be done according to bala of rogi.

After going through various article, books and journal, it is found that Ama is main root of causes of diseases. This review article explores, explains about how the Ama is associated with diseases and all gathered information and details about the Ama.

Ama is undigested food particle which is normally caused by the daubarlayata(weakness) of Agni/Poor digestion. Agni generally governs digestion, absorption and assimilation of ingested food particle, when Agni is poor/disbalance and weakness of Agni leads gastrointestinal tract creates a thick and slimy substances which lines wall of bowels and impedes absorption and assimilation of nutritents ie. Malabsorption. Proper digestion of food leads to ojus whereas improper digestion leads to Ama. 21,22 Hypo-functioning of Agni (Agnimandya) condition leads to apkva ahara rasa which undergoes the fermentation and leads to Ama. The improperly digested food particle which is due to the hypofunctioning of the digestive fire ie. Agni produces improperly processed ahara rasa known as Ama. This Ama owing to its bahu pichila guna ie. Sticky nature sticks to cell and channel of body causes srotas avarodha or block. when the srotas or channel of body is blocked by the Ama it causes fail to transport essential materials needed for the formation of tissue and nutrients. Due to block caused by the Ama, the cellular metabolites and excreta of body are not expelled properly and get accumulated in the body. The accumulated waste product undergoes the decay and causes toxic effects in the body. Due to blockage, deficit nutrition and improper cleansing of body the tissue and channels get damaged. Due to tissue damage and srotas avarodha many diseases are caused.²³ Ama may be nutritionally unimportant, but is immunologically powerful in evoking strong immune response, as it is vijayteya or a foreign substance to the body. This results in the formation of antibodies by defenses cells of the body. The Ama and antibodies then interact with each other to form an immune complex, which is deadly combination. It gets deposited in the tissue. For example, when it deposits into the sleshmika sleshma and synovial tissue surrounding the joints, it causes inflammatory reaction -the WBC think that some foreigner is entered and mount a massive attack and destroy the normal tissue, leading to acute pain and swelling etc. In this way Ama is responsible for the various diseases.²⁴

CONCLUSION

Aama means uncooked, unripe, immature, undigested and incompletely digested which is caused by agnimandhya and which causes various diseases like grahani, chardi, ajirna etc. Physician will be able to treat the diseases according to the Ama avastha and condition if he or she has knowledge of Aama so it is necessary to know about *Ama*.

REFERENCES

- 1. Yadav PV. Medical Perspective on Ama as per Ayurveda and Modern Consideration: A Review. Journal of Drug Delivery and Therapeutics. 2020 Feb 15;10(1-s):205-7.
- 2. Kumar M, Kumar P. Concept of "ama dosha" WSR to free radicals. Journal of Applied Pharmaceutical Research. 2016 Dec 9;4(4):01-4.
- Chavan AB, Jadhav DK. A Concept of Ama in Ayurvedic System of Medicine-An Overview. International Journal of Ayurveda and Pharma Research. 2017 Feb 7.

- Mishra G, Ashvini K, Swati S. Concept of Agni and its Importance in Ayurveda: A Review. Journal of Ayurveda and Integrated Medical Sciences. 2017 Jun 30;2(03):184-
- Babu D. The Principle and practice of Kaya chikista. reprint ed. 2019. Varanasi: Chaukhambha Orientalia. 2001; Vol. 1:134-136.
- Bulusu DS (editor). Astanga Hridaya, sutrasthana chapter 13 verse 25, Varanasi: Chaukhambha orientalia. 2008:176.
- Mishra BS, editor. Vidoyotini commentary on Bhavaprakasha Samhita of Bhava Mishra, mdhvam khanda chapter 1 verse 59. reprint. New delhi: Chaukhambha sanskrit Bhavan; 2020.
- Tripati DB, editor. Madhav nidana evam Madhukosha 8. Vidhotinitika of Madhav Mishra, Nidana sthana, Aamvatadhyaya, Chapter 25 verse 5. Varanasi: Chaukhambha Prakashana; 2010:510.
- Tripati DP, editor. Asthanga sangraha, Sutrasthana, chapter 21, verse 37. New Delhi: Chakhambha publishing house; 1992:404.
- 10. Tripati R, editor. Charak samhita, Chikitsa Sthana: Grahani, chapter 15, verse 44. Reprint. Varanasi: chaukhambha publication; 2017:367.
- 11. Vidyanath DR, editor. Illustrated astanga hrdaya. New delhi: Chaukhambha sanskrit pratisthan; 2013.
- 12. Tripati R, editor. Charak samhita, Chikitsa Sthana: Grahani, chapter 15, verse 42-43. reprint. Varanasi: chaukhambha publication; 2017:367.
- 13. Vaghbhatta. Astanga sangraha, Sutrasthana, chapter 13 and verse 27 edited by A. Dutta. Varanasi: Chaukhmbha publication.
- 14. Tripati DB. Madhavnidana evam madhukosha vidhotinitika, chapter 25 verse 3 edited by V. rakshit. Varanasi: Chaukhambha publication; 2010:510.
- 15. Kaushik P. A conceptual study of Ama described in Ayurveda. International Ayurvedic Medical journal; 2021:2789.
- 16. Chaudari DB. Critical evaluation of Ama. IAM. 2015;3:618.
- 17. Vidyanath DR. Illustrated Astanga hrdaya, Sutrastana, chapter 13, verse 23-24. 2nd edition. Delhi: Chaukhambha publishing house. 2013:217.
- 18. Vidhyanath D. Astanga Sangraha Sutrasthana, chapter 13, verse 23-24, 2022 reprint edition 2022. New delhi: Chaukhambha publishing house. 2013:217.
- 19. Babu D. The Principle and practice of Kaya chikista. reprint edition 2019. Varanasi: Chaukhambha Orientalia, 2001;1:134-136.

- 20. Babu DS. The principle and practice of kayachikista. Varanasi: Chaukhambha orientalia. 2001;1:137.
- 21. Babu DS. The principle and practice of kayachikista. Varanasi: Chaukhambha orientalia. 2001:1:138-140.
- 22. Kaushik P. A conceptual study of Ama described in Ayurveda. International Ayurvedic Medical journal. 2021:2789.
- 23. Chaudari DB. Critical evaluation of Ama. IAM. 2015;3:618.
- 24. Babu DS. The principle and practice of kayachikista. Varanasi: Chaukhambha orientalia. 2001;1:128.

How to cite this article:

Humagain B, Maharjan S. Literature Review of Ama in Ayurveda. Journal of Ayurveda Campus, 2022;3(1):103-107.