REVIEW ARTICLE

Literary Review on the Concept of Agni and Kosthavadhata in Brihattrayee

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ABSTRACT

Agni is the ancient Indian system of life sciences and Medicine, its historicity going back to the Vedas. Ayurveda has described an important factor of digestion and metabolism in our body as Agni. In Ayurveda, the Agni is also called as “Kaya” means Shareera. The Ayurvedic principle of treating the disease is based on Agni. Agni is responsible for strength, health, longevity, and vital breath and it determines the quantity of food to be consumed. Ingested food is to be digested absorbed and assimilated, which is unavoidable for the maintenance of life and is performed by Agni that mentioned in Ayurveda. The term “Agni” is used in the sense of digestion of food and metabolic products.

According to the functions and sites of action, Agni has been divided into 13 types, that is, one Jatharagni, five Bhutagni, and seven Dhatvagni. These 13 types of Agni are further divided into four types on the basis of bal, that is, tikhagni, mandagni, visamagni, and samagni. About the importance of Agni, Acharya charak has mentioned that after stoppage of the function of Agni, the individual dies, and when the Agni of an individual is sama, then that person would be absolutely healthy and would lead a long, happy, and healthy life. however, if the Agni of a person is vitiated, the whole metabolism in his body would be disturbed, resulting in ill health and disease. This deranged (vairita) leads to different type of diseases. Out of that Kosthavadhata, one of them Kosthavadhata means defecation of hard stool with strain, it occurs due to excess vatavriddhi that Acharya charaka mention in grahani Dosha adhikar that is included in vatajagrahini. Hence, Agni is said to be the base (mool) of life.

1. INTRODUCTION

Ayurveda is a holistic life science which is based on numbers of basic factors, out of that Agni is one of them. In Ayurveda, the Agni is also called as “Kaya” means Shareera. As a whole the Chikitsa of Ayurveda is based on Agni. The word “Agni” mentioned in Subdakalpadruma, Ayurveda has considered Agni a very important entity for the maintenance of good health. Ayurveda says that if Agni is not in its normal state, then it will lead to produce different ailments. The entire basic physics and biology of Ayurveda are greatly different from the modern basic sciences and the understanding of the structure and function of human body. The pathology and diagnostics are based on its own theories of Triguna (Sattva-Raja-Tama), Panchamahabhuta, Tridosha (Vata-Pitta-Kapha), and Agni. In Ayurveda, the term “Agni” is used in the sense of digestion of food and metabolic products. Agni converts food in the form of energy, which is responsible for all the vital functions of our body. Sushruta has mentioned that there cannot be any Agni without Pitta. Pitta is the same as Agni and it is called as Antaragni, since it possesses the properties of Agni and performs similar actions as performed by the Agni (digestive fire) itself. During Pitta Kshhayavasta, use of drugs which are having Agneya Guna will increase Pitta. Consumption of food may be various forms, that is, eatables, beverages, linctus (licked), and mastic able foods, which is wholesome if consumed in suitable quantity and free from contamination. These substances undergo metabolic transformation by the effect of Jatharagni, Bhutagni, and Dhatvagni. Initially Jatharagni gives stimulation to Bhutagni because consumed food is Panchabhuatak, it has to undergo transformation by the respective Bhutagni’s then only it becomes easy for tissue metabolism by Dhatvagnis. Then, processed metabolic products circulate inside the srotas continuously by the help of Vataosha. This favors the development, strength, complexion and happiness as well as growth of tissues. Dhatus remains in their normalcy after receiving respective

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nutrients from metabolized food substances. Jatharagni is the main principal substance responsible for disease and health. During its normalcy, it is responsible for longevity, complexion, strength, health, enthusiasm, well-built, luster, immunity (ojas), temperature, other Agni’s (bhutagni and dhatvagni), and other vital functions; all are dependent on Jatharagni. When this Jatharagni (fire) extinguishes, man dies. When a man is endowed with it adequately he lives along with good health. When it is deranged, he falls ill. This deranged (vikrita) leads to different type of diseases. Out of that Kosthavadhata, one of them Kosthavadhata means defecation of hard stool with strain; it occurs due to excess Vatavriddi that Acharya charaka mentions in Grahani Doshaaadhihkar that is included in vatajagragahani. Agni is situated in grahani and it is a common problem of the human being.

2. MATERIALS AND METHODS

This article material is collected from Ancient books such as Charak Samhita, Sushrut Samhita, Ashtangahrudaya, and Ashtangasanghrahra and various articles, Web, authentic books, inquire about papers, and courses are the essential sources.

2.1. Importance of Agni

Bala (strength), varna (color), swasthya (health), utsaha (enthusiasm), upacaya (development of the body), prabha (complexion), ojas (strength), tejas (valor), vaya (age), and evenayu (life) – all depend on Agni and its function (fire-like activity). So long as, agni is normal, man can have a healthy and long life, loss of Agni leads to loss of life.[11] Foods containing the nutrient materials of the dhatu can be of help to the dhatu, only after they are cooked (digested) well by the Agni.

2.2. Concept of Pitta and Agni in Ayurveda

It is a question of debate to say pitta and agni that are one and the same. Is there any separate agni other than pitta? Or pitta itself is agni? For this, Sushruta said no separate agni is found other than pitta. It is due to the properties of hotness in pitta leading to burning cooking and such similar functions performed by pitta are considered as Agni itself and it is called antaragni. During diminished state, use of similar properties of drugs advised and during increased state resorting to cold treatments have been advocated, no mention of Agni found in the texts.[13] Large food molecules are broken down to smaller molecules both mechanically and chemically by the action of pitta. Further pitta helps for the process of transporting these smaller molecules across the intestinal wall which facilitates absorption and lastly undigested portions of food and waste products are removed from the body. Dissimilarities are given in Table 1.

2.3. Types of Agnis

Agni is innumerable because of its presence in each and every dhatuparamanu (cell) of the body. However, enumeration of the number of Agnis varies in various classical Ayurvedic texts, as shown below Charaka has mentioned about 13 Agnis: Jatharagni – one, Bhutagni – five, and Dhatvagni – seven.[9]

According to Sushruta, five types of Agnis are illustrated, namely, Pachakagni, Ranjakagni, Alocakagni, Sadhakagni, and Bhrajakagni.[13] However, there is an indirect reference of five Agnis underlying in the brief description made to the transformation of food stuff.[8]

Vagbhata has described different types of Agni, namely, – Audaryagni – one, Bhutagnis – five,[8] Dhatvagnis – seven, Dhoshagni – three and Malagni – three, and Pitta – five.[8]

Sharangadhara has recognized five pittas only (Pachak, Bhrajak, Ranjak, Alocak, and Sadhak).[9]

Bhavamishra has followed Acharya Charaka and Vagbhata.[10]

Agni has been divided into 13 types according to the function and site of action.

These are

1. Jatharagni – One Agni present in the stomach and duodenum.
2. Bhutagni – Five Agni from five basic elements.
3. Dhatvagni – Seven Agni present, one in each of the seven dhatu.

Accordingly, they are classified into three groups, namely, Jatharagni, Bhutagni, and Dhatvagni.

2.3.1. Jatharagni

Jatharagni is the Agni or bioenergy present in the Jathara (stomach and duodenum). According to Ashtanga Hridaya, Jatharagni, the seat is grahani (duodenum), so called because it withholds the food for a certain time inside the Amasaya (stomach) to facilitate digestion. In the opinion of Dhanvantari, it is the Kala known as “Pittadhara,” situated at the entrance of the Pakvashaya (intestine) and acting as a bolt to the door of the pathway/channel of food. It is responsible for the duration of life, health, valor, ojas (essence of the dhatus), and strength of all the Bhutaghnis and Dhatvagnis. The strength of the grahani is from Agni itself, and the strength of Agni is from grahani. When the Agni undergoes vitiation, grahani also gets vitiated and produces diseases.[11]

Jatharagni is considered to be the most important because each and every nutrient that one ingests first comes to the Jathara and is subjected to the action of Jatharagni. Jatharagni digests the food materials that consist of the five basic elements and transforms it for utilization by the respective Dhatusparamanu (tissues). It is also responsible for separation of the food material into the essence portion (Prasad) and the waste products (kitta) in our body.[12]

Jatharagni is directly related to Dhatvagni or bio-energy in the cells and their metabolic processes, with ultimate tissue metabolism or Dhatu-Paka process. All the Dhatvagni depend on the normal, healthy state of Jatharagni. If the Jatharagni is hyperactive (Tikshna) or hypoactive (Manda), it will cause an excessive or retarded action of the Dhatvagni. This disturbed action ultimately leads to various disorders. Jatharagni is the main important Agni that controls the function of all other 12 Agnis. All the Agnis are totally dependent on the status of Jatharagni.[13]

Jatharagni is also classified into four categories according to its performance of digestion in the human being, namely, Vishakagni, Tikshanagni, Mandagni, and Samagni.[14] According to Harit Samhita, Samagni depends on whether the Doshas (Vata, Pitta, and Kapha) are in normal stage. When the Pitta is higher than normal, the condition is known as Tikshnagni. When Vata and Kapha are higher than normal, the condition is known as Mandagni.

2.3.2. Bhutagni

Bhutagni is the one that is present in a basic element (Bhutas). There are five Agnis in each of the five basic elements, namely – Parthiva (earth), Apya (water), Tejas (Agni), Vayavya (vayu), and Nabhasa (akasha).

Each and every cell in our body is composed of the five Mahabhutas or five basic elements. Naturally, each cell (Dhatuparamanu) consists of these five Bhutagni also. All the nutrients in this world that we eat also consist of the same five basic elements with their respective Agni or bioenergy. Thus, they are completely similar with respect to the
five basic elements with their Bhutagni in our body cells as well in the entire outside nutrient that we ingest for the nutrition of our body. Acharya Charak has mentioned that the five Bhutagni digest their own part of the element present in the food materials. After the digestion of food by the Bhutagni, digested materials containing the elements and qualities similar to each Bhutas nourish their own specific Bhautika elements of the body\textsuperscript{[15]} These Bhutagnis act after the Jatharagni present in the stomach and duodenum, acting on the food and causing their disintegration. In the modern physiological perspective, the action of Jatharagni can be equated with the digestion in the stomach and duodenum, and the action of the Bhutagni can be equated with the conversion of digested materials in the liver.

2.3.3. Dhatvagni
All the seven Dhatu (seven element tissues of the body) contain their own Agni to metabolize the nutrient materials supplied to them through their own Srotas.

- a) Rasagni present in the Rasa Dhatu.
- b) Raktagni present in the Rakta Dhatu.
- c) Mamsagni present in the Mamsa Dhatu.
- d) Medagni present in the Meda Dhatu.
- e) Asthyagni present in the Asthi Dhatu.
- f) Majagni present in the Majia Dhatu.
- g) Shukragni present in the Shukra Dhatu.

Each Dhatvagni or the bioenergy present in each Dhatu synthesizes and transforms the essential Rasa Dhatu required for that particular Dhatu or cell from the basic nutrients present in the Anna Rasa or essence of the diet that we consume. Each Dhatvagni has got a specialty to synthesize and transform the constituents suitable to its particular Dhatu. This action is a sort of selective action. Acharya Charaka has mentioned the fact that the seven dhatus that are a support of the body contain their own Agni, and by their own Agni, they digest and transform the materials supplied to them to make the substances alike to them for assimilation and nourishment.\textsuperscript{[16]}

Importance of Jatharagni functions of various agni elaborately discussed above in which jatharagni is the chief among all types of agnis because function of Bhutagni and Dhatvagni depends on this. Aggranation or diminution of jatharagni results in aggravation or diminution of Bhutagni and Dhatvagni. Therefore, by all means, one has to protect jatharagni by consuming suitable wholesome dietetics and behavior because longevity and strength depends on normal state of agni. On the contrary one, who consumes unworthy diet due to greed, succumbs to disease caused by the vitiation of grahanit.\textsuperscript{[17]}

2.4. Physiological and Pathological State of Agni

2.4.1. Samagni
First variety is not associated with dosa and it is called samagni state and it is the physiological state of agni. The Samagni digests and assimilates food properly at the proper time. This thus increases the quality of the Dhatus (supportive tissues of the body). Persons having Samagni are always hale and healthy.

2.4.2. Vishamagni
Visamagni is the state in which improper digestion and metabolism take place, that is, sometimes perform normal functions followed by abnormal one and manifest flatulence, abdominal pain, upward movement of vata inside the kostha, diarrhea, heaviness in abdomen, intestinal gurgling, and straining exercise for evacuation of stools. When this Agni is affected by the Vata Dosha, it creates different types of vatavyadhi.

2.4.3. Tikshnagni
Tikshnagni means very quick/very sharp/very fast. Tikshnagni is a state of very quick digestion of food, regardless of the type of food. Acharya Shushrut states that when the power of digestion is increased from normal to above normal, food digests very quickly and produces hunger or the desire for food. When food is digested, the throat, the mouth cavity, and the lips become dry with a burning sensation. This condition is known as “Bhamsak Roga” according to Ayurveda. Tikshnagni state gives rise to manifestation of vatavatyadhi.

2.4.4. Mandagni
The meaning of the Mandagni is slow digestive power or digestive capacity. Those who are having Mandagni eat very little and are unable to digest the smallest amount of food. Dhanvantri says that Agni digests the least amount of food in the greatest amount of time and manifests heaviness in abdomen and head, cough, dyspnea, excessive salivation, vomiting, and weakness of the body. Mandagni state gives rise to manifestation of Kaphajavikara.

2.5. Kosthavadhata
Kosthavadhata (constipation) is one of the common problems of human being on the society which is mainly based on the state of Agni. Because the vikritaagni responsible for creating different type of Ajirna which is the initial or earlier symptom of Grahanit Doshha, on the basics of involvement, doshaa in different ajirnavikarara formed like Visthabajirna - vatavitiated agnivikara, Vidagdha jirna - pitta viitiateagnivikara and Amajirna - kapha viitiated agnivikara “?, and concern to kosthavadhata (constipation), it is vatapradhanyaagnivikara.

By observing the features of Kosthavadhata to a maximum extent, it can be very well correlated with disease simple constipation. This disorder is mentioned in almost all the textbooks of modern medicines, few enlisted as follows: Gyton and Hall textbook of medical physiology and Golwall’s medicine for students and Davidson. Constipation is defined as infrequent passage of hard stools, straining, sensation of incomplete evacuation, and abdominal discomforts; it can be end result of many gastro intestinal or other health disorders. Simple constipation is due to an inadequate diet and life style.

3. CONCLUSION
After detailed discussion of Agni, it can be concluded that Agni plays a pivotal role in maintaining good health of a human being. Agni is an important integral part of the body. The entire range of digestive and metabolic activity of the body takes place with the help of biological fire of the body known as Agni. Normal state of Agni should be maintained by consuming suitable diet and behavior because longevity and strength depends on the healthy state of Agni. These pathological events ultimately lead to various gastrointestinal, allergic, auto-immune, and metabolic disorders. Clinical practice Agni Parikhsa of the patient is very important, because on the basis of this parikhsha future treatment plan can be decided. Healthy state of the body and diseased condition depends entirely on Agni. Vata (prana, saman, apana, and udan) stimulates the digestive fire. Agni should be protected by proper intake of food because this acts as a fuel. If a person is deprived of food or takes too much food for quite some time, then it results in the disturbance of Agni and disease develops in the body. Jatharagni is important because it facilitates secretion of various chemicals, enzymes, etc. leading to proper digestion of food. Further Dhatwagni and bhutagni help for the digestion absorption and assimilation of food substances into the body. Ayurveda says that disturbed function of Agni is the root cause of all diseases.
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REFERENCES

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### Table 1: Dissimilarities between Agni and Pitta

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<td>Color</td>
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<td>Neela(Ama), pitta (Nirama)</td>
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