Physiological Evaluation and Correlation of *Twacha* and *Agni* W.S.R. to *Bhrajak Pitta*

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Abstract- The primary agent in the Paka (digestion, transformation) process is Agni. Food that has been ingested needs to be digested, absorbed, and assimilated; this process is carried out by the Agni. Different examples are in our classics to indicate that Pitta is the same as Agni, but some doubt arises behind this concept, that Pitta is Agni¹. Since Agni is manifested in the body as Pitta, Karmas mentioned for Pitta is itself the Karma of Agni. Pathological increase in Pitta causes vellowcoloured skin and eyes and a decrease in Pitta causes loss of lustre and low glorification (Prabhahani). Pitta has five subtypes Aalochak, Ranjak, Sadhak, Pachak and Bhrajak Pitta. Bhrajak Pitta is located in the skin and its functions are regulation of body heat maintaining normal skin colour and absorption and digestion of medicine applied on the skin.

Keywords- Agni, Pitta, Twacha, Bhrajak Pitta

INTRODUCTION

The branch of life science that deals with the functional aspect of Dravya is termed physiology. It can be noticed that, in Ayurvedasamhitas, there is no exact description regarding the Nirukti and Gunas of Agni. However, the physiological and pathological phenomena of Agni have been described at every point of discussion in Samhitas. Acharya Charak has specified a few more Saririka and Manasika functions of Agni. Saririka functions are Ayu(lifespan), Svasthya(health), Upachaya (growth or metabolism) and Prana (life or energy).² Manasika functions are Utsaha (enthusiasm), Bhaya(fear), Krodha(anger), Harsha(pleasure), *Moha*(desire) and Prasad (happiness). Pitta is considered as Agni. Sthana of Pitta are Nabhi(umbilicus), Aamashaya(stomach), Sweda(sweat), Lasika(serum), Rudhir(blood), Rasa, Sparshanedriya (skin). Pitta has Drik(eyes), Aalochak, Ranjak, Bhrajak, Sadhak, and Pachak five subtypes. Out of five subtypes, Bhrajak Pitta is located

in the skin. The main function of *Bhrajak Pitta* is to maintain the colour and lustre of skin. It has also been stated that it governs the normal and abnormal temperature of the body.

Agni as per Ayurveda

Agni as a metabolic fire in human Body

Commonly used synonyms in *Ayurveda* classical text books are *Agni*, *Vahni*, *Pavak* and *Anala*. The entire human body is made up of *Dosha*, *Dhatu* and *Mala*.³ Even though *Agni* is given prime importance, it is not mentioned as a separate constituent of the human body. This is because the *Agni* in the human body is a *Virya* or force or power that exists in every part of the human body. Hence, a separate mention of it is not required to prove its importance in the body.

Agni is having 13 categories. one- Kosthangni, five-Bhutagnis and seven-Dhatwagnis. All the 13 categories of agni are key factors in transformation of consumed ahara viharadi dravya of vijatiya origin to sajatiya nature.

1) Kosthagni (1type)

Agni vs. Pitta

Whether Agni and Pitta are same or different is a controversy among *Ayurveda* Physicians. Some physicians support the view that both are same, while some oppose it. *Santap* or *Usma* is the common term for both pitta and Agni, it is the first reason. Second reason is usage of *Agni* and *Pitta* as same at various parts in the textbook. According to Acharya Charak *Agni* present in the Universe, is present inside the human body in the form of *Pitta*. *Usma* (heat) of *Agni* is present or manifested inside the body in the form of *Pitta*. *Usma* or Heat can perform its action only in the presence of carrier. For example, in human body heat can produce burns only when it is contact with the body in the form of oil and water etc. Here, heat is the

cause and performer of the burn. But it is transferred through oil or water which acts as the carrier to transfer heat to the body without which there will not be any burn. Similarly, *Pitta* in human body acts as the carrier of *Agni* which does its functions. This *Agni* in human body has got the nature of *Suksmatva*, i.e., invisible to naked eye. But *Pitta* is in visible form. Hence, it can be interpreted that *Pitta* is the *Sthulabhaga*, which can be perceived through *Chaksurendriya*.

Physiology of Bhrajak Pitta

The *Agni* present in the skin is called as *Bhrajakagni*. It produces *Usma* (temperature on skin), *Paka* of the *Dravyas* used as *Abhyanga*, *Pariseka*, *Avagaha* or *Lepa* and determination of complexion.⁵

There are several *Dhamanis* that manifest themselves in the skin. Sweat is evacuated along this channel, and *Rasa-Rakta Dhatu* are constantly moving to sustain *Usnata* in the skin. The *Virya* of *Dravyas* used in the *Abhyanga, Pariseka, Avagaha*, and *Alepa* processes enter these *Dhamanis* through these holes. According to *Dalhan*, the term *Tvacivipakvani* signifies that there is *Pachan* in the *Tvak* via *Bhrajakagni*.⁶

Twacha and Pitta Dosha with correlation of Agni Twacha is one of the sites of Pitta Dosha. Sushruta was the first Acharya to describe Bhrajaka Pitta as a variety of Pitta. He also used the term Bhrajaka Agni for Bhrajaka Pitta. Acharya Vagbhata also described the location and function of Bhrajaka Pitta. Pachaka Pitta and Ranjaka Pitta also indirectly play a role in the maintenance of Skin colour. According to Charak, the Pitta Dosha is responsible for Prakrita & Vikrita Varna in its normal & abnormal state respectively. Avabhasini, the first layer of Twacha exhibits all types of complexions & 5 types of Cchaya which due to the action of Bhrajaka pitta.⁷

यत्तु त्वचि पित्तं तस्मिन् भ्राजकोऽग्निरिति संज्ञा, सोऽभ्यङ्गपरिषेकावगाहावलेपनादीनां

क्रियाद्रव्याणां पक्ता, छायानां च प्रकाशकः ॥(Su.su.21/10)

Different skin applications (like paste, and ointments) are digested and absorbed through skin due to *Bhrajak Pitta*. He describes *Bhrajak pitta* as *Agni*.

Bhela says that *Bhrajaka pitta* is responsible for manifestation of various Prabha of head, hand, feet, sides, back etc. & it brightens the *Prabha*.

"आयुर्वर्णो बलं स्वास्थ्यमुत्साहोपचयौ प्रभा| ओजस्तेजोऽग्नयः प्राणाश्चोक्ता देहाग्निहेतुकाः|| (cha.chi 15/3) If *Agni* is functioning proper in a person, then his Skin is having good lustre and texture.

CONTEMPORARY VIEW

Melanin is a broad term for a group of natural pigments which is produced by a group of cells called as melanocytes. In humans, melanin is the primary determinant of skin colour. Melanin synthesis begins in liver where phenylalanine is converted to tyrosine by the action of phenylalanine hydroxylase. L-tyrosine is then converted into L-DOPA by the action of tyrosinase enzyme within the melanocyte's melanosome. L-DOPA is then oxidized to DOPA quinone. From DOPA quinone the dark pigments that are mixed melanin's are produced.⁸

Amino acid L-tyrosine can be compared to *Rasadhatu* and *Bhrajakagni* as the tyrosinase enzyme. The Proper functioning of this *Agni* will result in proper *Varna*.

CONCLUSION

Agni in its Sukshmatva form stays in Pitta. Acharya Susruta has described Bhrajak Pitta as one of the Five Agnis. As per above statements Agni is the key factor responsible in keeping individual healthy and in turn beautiful. If all the 13 types of Agnis of an individual are in healthy state then it will definitely bestow not only beautiful skin but also good health. If the Agni is not proper then it will lead to Apakwa anna rasa (undigested food particles) in the Amashaya (stomach). This is nothing but Ama (toxins) which gets accumulated all over body and leads to various types of skin diseases. Proper balance of all the type of Agni is responsible for formation of proper Dhatus and subsequently proper Dhatu saras formed ultimate effect of which is seen on the skin.

REFERENCE

- Charaka S. Commentator Pt. Kashinath Sashtri and Dr. Gorakhnath Sanjay Kumar Bhatnagar, Prof. (Dr.) Rajesh Kumar Sharma, Dr.Dinesh Chandra Sharma. An Analytical Study of Annarasa to Maintain Sharira Dhatu by Agni, International Research Journal Of Ayurveda & Yoga,2021.
- 2 Charaka Samhita, Chikitsasthana, Sashtri Kashinath, Pt, Chaturvedi Gorakhnath, verse

- 15/4. Varanasi: Chaukhamba Bharti Academy; 2004.
- 3 Susrut Samhita, Sutra Sthana, Kaviraj Ambikadatta Sastri, Dr. Pranjivan Manekchand Mehta, verse 15/3. Varansi: Chaukhmbha Sanskrit Sansthana, p. 73.
- 4 Charak Samhita, Sutrasthana, Dr. Brahmanand Tripathi, Dr.Gangasahay pandey, verse 12/11,Varanasi:Chaukhambha Bharti Academy,p.259.
- 5 Susrut Samhita, Sutra Sthana, Kaviraj Ambikadatta Sastri, Dr. Pranjivan Manekchand Mehta, verse 21/10. Varansi: Chaukhmbha Sanskrit Sansthana, p. 115.
- 6 Susrut Samhita, Sharir Sthana, Kaviraj Ambikadatta Sastri, Dr. Pranjivan Manekchand Mehta, verse 09/09. Varansi: Chaukhmbha Sanskrit Sansthana, p. 94.
- 7. Susrut Samhita (Dalhan Tika), Sharir Sthana, Dr.Kevalkrishna Thakral,verse 04/04.Varansi;Chaukhmbha Orientalia,p.51.
- 8 Estibaliz Sansinenea, Aurelio Ortiz. "Melanin:a photoprotection for Bacillus thuringiensis based biopesticides", Biotechnology Letters, 2014.