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REVIEW ON TWACHA SHARIR WITH SPECIAL REFERNCE TO KUSTHA VYADHI

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ABSTRACT

Twacha is one of the largest and outermost protecting organ of the body. It is known as – 'Firstline of Defense'. In Ayurvedic medicine, the idea of "Twacha Sharir"—the skin and its associated structures—is essential to comprehending and treating Kustha Vyadhi, or skin illnesses. Twacha is intimately related to the general health and balance of the body and is seen in Ayurveda as an essential part of the body's Dhatus (tissues). A variety of long-term skin disorders are included in Kustha Vyadhi, which is frequently linked to abnormalities in the body's Doshas that is Vata, Pitta, and Kapha. The Ayurvedic perspective on Kustha Vyadhi highlights that these disorders result from disruptions in normal functioning of Twacha Sharir.

KEYWORDS: Skin, Twacha, Kustha, Kshudra Kustha, Maha.

INTRODUCTION

The skin, often referred to as the cutaneous membrane, is the biggest organ in the body, measuring over 20 square feet in total area and weighing between 4.5 and 5 kg, or roughly 7% of the body weight. Because it shields us from germs and other external invaders, skin is referred toas "The First Line of Defense". It is a component of the integumentary system, which protects the body and aids in temperature regulation to help maintain homeostasis. Additionally, it enables us to perceive unpleasant, pleasant, and other stimuli in the outside world. [1]

The skin is the structure that covers the entire body, according to *Acharya Charaka*. *Acharya Sushruta* has said that the *Twacha Pramana* differs in different sites of the body as in *Mamsalsthaana* and *Lalaat*, the *Pramana* of *Twacha* varies. The idea that skin is thinnest oneyelids and in the post-auricular region and thickest on palms and soles of feet has also been confirmed by modern research. A lot about skin is already known but details of *Twacha* mentioned in Ayurvedic texts are yet to be explained.

Understanding the *Rachnatmaka* and *Kriyatmaka* facets of *Twacha* is crucial since it serves as the seat of several *Rogas*. *Twacha* is *Updhatu* of *Mamsa Dhatu*. *Tamra* and *Vedini Twacha* – the fourth and fifth layer respectively are seat of *Kustha Roga*.

MATERIAL AND METHOD

This literary analysis examines how Twaka Sharir is

understood, paying particular attention to *Kustha Vyadhi* with the use of information gathered from published research publications, texts that are both classical and modern.

Skin is referred to as *Twaka* or *Twacha* in Ayurveda. It falls within the category of "*Panch Gyanendriya Adhisthana*". It can stretch and expand to a large extent. "*Pranadi Panch Vayu*" is the *Adhisthana of Twacha*, where *Vayu* resides and manifests its powers. *Twacha* is a unique sensory organ that develops unique experience of pressure, heat, cold, touch, and pain.

Twacha Utpatti

In Ayurvedic scriptures, it is believed that the formation of *Twacha* (skin) happens in *Tritiya Masa* (third month) of intrauterine life.^[2] Varied *Acharyas* have varied viewpoints regarding thedevelopment of *Twacha*.

Acharya Sushruta used Ksheer and Santanika as an example to explain how Twacha developed in Shareersthana. Twacha forms similarly to how a layer of Santanika (cream) forms on top of Ksheer (milk) upon cooking. Heat produced during the union of Shukra and Shonita during the Garbhanirmaana Kala is what forms Twacha. [3]

According to *Acharya Vagbhata*, *Dhatvagni's Paka* of *Rakta Dhatu* is what causes *Twacha* todevelop. [4]

In Modern texts, it is stated that the development of skin

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starts at about fourth week after the fertilization. At the beginning of seventh week, the single layer known as the basal layer, divides and forms a superficial protected layer of flattened cells called periderm. By the fifth month, appearance of fatty layer called the vernix caseosa can be seen. By about eleventh week, epidermis and dermis are formed and hair follicles start to grow. The epidermis is derived from ectoderm while the dermis arises from mesoderm located deep to the surface ectoderm.

Twacha – Rachnatmaka aspect

Since of *Vayu Mahabhuta*, *Twacha* is the *Adhishthana* of *Sparshanendriya* since it has touch sensibility. It encompasses the body's exterior organs as well as the senses.

Twacha according to different acharyas – Charak, Kashyap, Astang Samgraha – 6 layers Sushrut, Astang Hridaya, Sharangdhara – 7 layers

Twacha (Su) ^[3]	Diseases associated	Pramana of Twacha	Twacha (Ch) ^[5]	Diseases associated
Avabhasini	Sidhma, Padmakantaka	1/18 th part of <i>Vrihi</i>	Udakadhara	
Lohita	Tilkalaka, Nyacha, Vyanga	1/16 th part of <i>Vrihi</i>	Asrigdhara	
Shweta	Charmadala, Ajgallika,Mashaka	1/12 th part of <i>Vrihi</i>	Tritiya	Sidhma, Kilasa
Tamra	Kilasa, Kushtha	1/8 th part of <i>Vrihi</i>	Chaturthi	Dadru, Kushtha
Vedini	Kushtha, Visarpa	1/5 th part of Vrihi	Panchami	Alaji, Vidradhi
Rohini	Granthi, Apachi, Arbuda, Galganda, Shleepada	1 Vrihi	Shashthi	Tamapravesh,Sthula Moola Arunshika
Mamsadhara	Arsha, Bhagandara, Vidradhi	2 Vrihi		

According to $Arundata^{[6]}$ – commentator of Astang Hridaya layers of Twacha are :

Bhasini, Lohini, Shweta, Tamra, Vedini, Rohini, Mamsadhara.

Astang Samgraha told Twacha same as Charaka except the 6th layer i.e. Pranadhara. Sharangdhara^[7] and Bhavprakash^[8] told the same description as Acharya Sushruta except theseventh layer as Sthoola.

Modern aspects of Skin

Skin is easily inspected or more exposed to infection, disease and injury of all the organs. Skin consists of mainly 2 parts –

- 1. Epidermis thinner, avascular, superficial layer made up of epithelial tissue.
- 2. Dermis This is deeper, thicker connective tissue part.

1. Epidermis – Ectodermal in origin and give rise to appendages of skin, mainly hair, nails, sweat glands & sebaceous glands. It is made of two kinds of cells: Keratinocytes and non keratinocytes, including melanocytes, dendritic cells of Langerhans and cells of Merkel.

Keratinocytes - are the main epidermal cells, derived from stem cells found in the basal layer. Melanocytes derived from melanoblasts, which are neural crestderived cells that synthesizemelanin.

Dendritic cells of Langerhans - originate in the bone marrow and are crucial in shielding the skinfrom viruses and other illnesses.

Cell of Markel – Sensory nerve endings are present in these cells in basal layer of epidermis. This epidermis comprises of 5 layers –

Epidermis	Cells	Features	
Stratum corneum	Corneocytes	Fibrous protein keratin is	
Stratum corneum	Stratified epithelial cells	present	
Stratum lucidum	Flattened epithelial cells	Eleidin (precursor of keratin)	
Stratum lucidum		is present	
Stratum	Rhomboidal shape cells,	Keratohyalin is present in	
granulosum	3 cell layered	shape of granules	
	Several layers (3-5) thick		
Stratum spinosum	Cells have spine like	Some melanocytes	
	processes/projections		

Stratum	Polygonal cells-superficially	Keratinocytes Melanocytes. Merkel's cells
germinativum/	Columnar or cuboidal	
basale	Epithelial cells- deep	

Dermis - The dermis can be split into two regions based on its tissue structure: the reticular layer and the papillary layer.

- a) Papillary layer: Forms the dermal papillae, which are dense connective tissue found in the superficial layer of the dermis and best develop in the thick skin of the palm and sole. Includes nerve fibers, lymphatic vessels, blood vessels, and chromate ores (pigments)
- b) Reticular layer: Made up of reticular and elastic fibers. Fibers are found around the hairbulbs, sweat glands and sebaceous glands.

Correlation of Layers of Twacha

The specifics of the skin's layers as described by modern science and Ayurveda remain unclear. However, as noted by Ghanekar^[9], the Sushruta Samhita Shareersthana commentator, the relationship between Ayurvedokta Twacha Sthara and modern sciences. This is as follows – Avabhasini- Stratum corneum.

Lohita- Stratum Lucidum Shweta- Stratum Granulosum Tamra- Malpighian Layer Vedini- Papillary Layer Rohini- Reticular Layer

Mamsadhara- Subcutaneous tissue

Function of Skin^[10]

- 1. Storage function: Sores fat, water, chloride & sugar. Can also store blood by the dilatation of the cutaneous blood vessels.
- 2. Synthetic function: Vitamin D3 is synthesized in skin by the action of UV rays from sunlight on cholesterol.
- 3. Regulation of body temperature
- 4. Regulation of water and electrolyte balance.
- 5. Excretory function
- Absorptive & protective function
- 7. Secretory function

Kustha

The term 'Kustha' in ayurveda denotes all Twaka (skin) diseases. According to Acharya Vagbhata Kushta is a disease that causes Vaivarnya and Dushti to the Twacha. According to Amarkosh Kustha word is derived from the root 'Kush' which means that comes from inner part. According to Ayurveda, Twacha is an indicator of the state of the body from the inside out, with special emphasis on its relationship to the equilibrium of *Dhatus* (tissues), Malas (wastes), and Doshas. The health of the skin is related to the balance of the three *Doshas*:

Vata Dosha: Imbalances can cause dryness, roughness, and premature aging of the skin.

Pitta Dosha: Excess can cause inflammation, redness. Kapha Dosha: Imbalances may cause in excess moisture, oiliness, and sluggishness.

Nidan^[11]

- Virudha Annapana, excess intake of Drava, Snigdha, Guru Dravyas
- Hold back natural urges like Vomiting etc.
- Exercising or coming in contact of excessive heat after intaking excessive quantity offood.
- Indulging in habits such as, taking Sheeta quality food etc followed by Ushna quality or either fasting followed by heavy meals.
- Having cold water immediately after exposure to sun.
- Exertion and fear
- Eating uncooked or raw foods or having meals although previously taken meals have not been digested.
- Indulging in food and other habits which have been restricted during the phase of *Panchakarma*
- Consuming new grains, curds, fish, excessive salty and sour food items.
- Black grams, radish, food prepared from flour paste, sesame, milk and jaggery products.
- Indulging in sexual activity even if the food is not well digested.
- Diwaswapna (Sleeping during day time)
- Insulting peers like brahmin / guru and other respected personal and doing sinful acts.

Samprapti

' वातादयस्त्रयो दुष्टास्त्वग्रक्तं मांसमम्बु च। दुष्यन्ति स कृष्ठानां सप्तको द्रव्यसंग्रहः ।। ' (च0च0 9/7)

Collectively, the impaired Twaka, Rakta, Mamsa, and Ambu along with the three vitiated doshas—Vata, Pitta, and Kapha—form seven vital components that contribute to the pathophysiology of Kustha.



Purvarupa of Kustha

Touch sensation decreased, excessive sweating or absence of sweating (which may be localized or generalized), change in color (discoloration), papules on skin, horripilation, pruritus, pricking pain, physical exhaustion, mental fatigue, severe pain in ulcerated area, sudden appearance and chronic the ulcers, burning sensation, numbness.

Classification of Kushta^[11]

- 1. Mahakushta: 7 (Kapala, Udumbara, Mandala, Rushyajivha, Pundarika, Sidhma, Kakanaka)
- 2. Kshudra Kustha: 11 (Ekakushta, Charmkushta, Kitibha, Vipadika, Alasaka, Dadru, Charmadala, Pama, Visphot, Shataru, Vicharchika)

Predominance of Doshas in Mahakustha & Kshudra Kustha

Predominant Dosha	Kustha
Vata	Kapala
Pitta	Udumbara
Kapha	Mandala, Vicharchika
Tridosha	Kakanaka
Vata-Pitta	Rishyajiva
Vata-Kapha	Siddhma, Charmakushta, Ekakushta, Kitibha, Vipadika, Alasaka
Pitta-Kapha	Dadru, Charmadala, Pama, Visphot, Shataru

Lakshana of Mahakushta

- i) Kapala Krishna, Aruna, Ruksha, Parusha, Tanu
- ii) Udumbara Resemblance with Udumbara fruit, redness, Lomapinjara (hair on affected areabecomes
- iii) Mandala white, red in color, elevated patches, patches matted with each other
- iv) Rishyajihva red in edges, brown inside, resembles with the tongue of Rishya (type of deer)
- v) *Pundarika* Elevated patches, Similarity with lotus petals, burning sensation
- vi) Sidhma white coppery, color resembles flower of Alabu (Lagenaria siceraria)
- vii) Kakanaka resembles Gunja (Abrus precatorius), red in color, incurable

Lakshana of Kshudra Kustha

- Ekakushta Absence of sweating, resemblance of skin with the scales of fish.
- ii) Charmakushta skin patch becomes thin appear like elephant skin.
- iii) Kithibha Rough in touch, blackish brown
- iv) Vipadika Cracks in soles & palms, extreme pain
- v) Alasaka excessive itching, redness
- vi) *Dadru* itching, redness, pimples
- vii) Charmadala pustules, itching, extreme pain
- viii) Pama excessive itching, Kandu, Pidika which is white, reddish or blackish in color.
- ix) Sphota boils, whitish & reddish in color.
- x) Shataru red, brown, painful with burning sensation
- xi) Vicharchika Excessive secreations, blackish brown eruption, itching

Sadhya – Asadhyata

- Vata kapha predominated Kustha and single dosha predominated Kustha - Sukhasadhya (Treatable easily)
- Whereas Kapha Pitta and Vata Pitta dominated Kustha are Kricha Sadhya (difficult totreat)
- Presence of all the symptoms, in weak patient, suffering from morbid thirst, burning sensation, loss of digestive power and if there is presence of maggots then it is *Asadhya*(incurable).

Upadravas

- Prasravana
- Angabheda
- Patana Anga Avayava
- Trishna
- 5. Jwara
- 6. Atisara, Daha
- Daurbalya, Arochaka, Avipaka

Pathya - Laghu Anna, Tikta Shaka, Bhallataka, Triphala, Nimb Yukta Anna and Ghrita, Purana Dhanya, Jangala Mamsa, Mudga, Patola. For Pana, Snana and Parisheka Khadira Kashaya is indicated.

Apathya - Guru, Amla, Payas, Dadhi, Anupamamsa, Matsya, Guda, Tila, Dugdha, Dahi, Taila, Kultha, Virudha Aahar, Adhyasana, Ajeerna.

Treatment

- Skin disorders take a long time to heal, are nearly always incurable, and demand patience to take treatment for extended periods of time. In the absence of Tridoshas' vitiation, Kustha Roga is impossible. Nidana Parivarjana should be the primary line of treatment because the disease's symptoms initially appear due to Nidanasevana. By limiting the vitiation of *Doshas*, it halts the illnesses.
- Kustha is a Tridoshaj Vyadhi which first dominant Doshas should be treated and then the Anubandh Doshas.
- Acharya Vagbhata says that Snehapana should be administered to Kustha Rogi in Purvarupa Avastha.
- Samshodhan should be done in case of Bahudoshavastha. According to Acharya Charakain Vata dominant Kustha Ghritapana is indicated, in Pittaja Kustha Virechan & Raktamoskhan & in Kaphaja Kustha Vaman is indicated. Vamana is given in every 15 days, Virechan at every 1 month, Raktamoshana at every 6 months.
- According to Acharaya Sushruta

Twakagata Kustha – Lepa of Samshodan Dravya Raktagata Kushta - Samshodhan, Aalepa, Kashya, RaktamokshanaMamsagata Kustha – above all + Arista, Manth, Prasha Prayog Medagata - Yapya (Samshodhan, Raktamokshan)

- After Shodhan Chikitsa, Shaman is done to pacify the remaining Doshas.
- Tikta, Kashaya Dravyas are used for Shaman according to Charaka.
- External application also plays a vital role in *Kustha Vyadhi* as *Sthanasamsraya* and *Vyaktasthana* is *Twacha*.

DISCUSSION

Texts from the past and present have differing views about skin. However, they both discuss the skin's layers, pigments, and thickness as well as a comparison of the skin's layers using terms from antiquity and modernity. *Twacha* refers to skin while *Kustha* is a term used for wide range of skin diseases. The condition of *Twacha* reflects the balance or imbalance of the body's *Doshas* and other internal factors. Healthy *Twacha* indicates proper digestion, balanced doshas, and overall health, while imbalances can manifest as skin disorders. *Kustha* is caused due to imbalance in *Doshas*. Treated by balancing the doshas & restoring the skin health.

The health of *Twacha* is important for prevention & treatment of *Kustha*.

CONCLUSION

According to Ayurvedic medicine, the Twacha is an important organ that reflects and influences general health, not just a covering on the outside. This study of Twacha in both ayurvedic & modern perspective provides well established concept of Twacha in medical science. Ayurveda explains a wide range of dermatological disorders including its classification, pathogenesis, symptoms, prevention and treatment. Kustha Vyadhi is a complicated combination of internal health problems, lifestyle choices, and Dosha imbalances. At present stress & altered immunity are major factor involved for wide range of dermatological disorders. The management used in Ayurveda are good immune modulators & anti-stress agent. Through a holistic approach to diagnosing, treating, and managing skin diseases, practitioners can promote improve skin health and general well-being by comprehending the complex relationship between Twacha and Kustha Vyadhi.

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