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AYURVEDIC ASPECT OF KOTHA WITH SPECIAL REFERENCE TO GANGRENE

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ABSTRACT

Ayurveda is the science of life providing guidelines on ideal daily and seasonal routines, diet, behavior and proper use of senses for healthy and happy life. It suggests health as the balanced and dynamic integration between our environment, body, mind, and spirit. Ayurveda has given many fundamental principles to understand concepts in this contemporary modern world. In Ayurveda some diseases are not mentioned completely, which are termed as *Anukta* or *Leshokta* diseases, we can be studied in accordance with modern science. One such ailment is *Kotha* which is not fully described or what is described is insufficient. When considered in modern science, *Kotha* can be correlated with gangrene based on its symptoms. Gangrene is not specifically mentioned in Ayurvedic classics but when studied in accordance with *Kotha* with the help of *samprapti*, *lakshanas*, *strotasdushti* it can be well understand. This paper will be a sincere

effort to put forth Ayurvedic aspects of gangrene with special reference to KOTHA (Dushtavrana).

KEYWORDS: Dushtavrana, Gangrene, Kotha.

INTRODUCTION

Ayurveda is described as *Anaadi* and *ShashwatShaastra* because of its principles, which were mentioned several years ago. Due to the boon of research, these principles are now also applicable and accepted by modern science. In Ayurvedic text certain diseases or conditions are not mentioned or is insufficiently elaborated. Such diseases are termed as Anukta or Leshokta. These conditions should be studied and explored under the umbrella of Dosha, Dushya, Strotas, Agni, Aam etc. With the help of these principles, many diseases can be studied from view of today's modern aspect.

One such disease in Sushruta Samhita which has very little description is Kotha. It is termed as "*ਜੀਪ*: प्रतिभाव" which means putrefactive process. [2] Kotha has very limited description in samhitas, but it can be considered and treated with the principle of Dushtavrana. Dushtavrana results when vranashotha avastha is not treated with continuation of consuming causative factors i.e *Hetus*. Likewise, gangrene is tissue destruction caused either by infection or in untreated cases of cellulitis.

Commentator of Sushruta Samhita AcharyaDalhana has described the definition of the word kotha as process of putrefaction. Putrefaction and necrosis process are seen in ulcer, like untreated ulcer referred as Dushtavrana. [3] According to modern science, Kotha vyadhi can be correlate with gangrene, in terms of lakshanas (symptoms), Hetus (causes) and Samprapti (pathogenesis). On the basis of this, Ayurvedic aspect of Gangrene will be studied in present paper with special reference to Kotha. More researches should be promoted in this field to explore the principles of Ayurveda.

AIMS

To study the ayurvedic aspect of gangrene with special reference to *Kotha*.

OBJECTIVES

- To find surgical management of modern disease according ayurveda.
- To explain ayurvedic aspect of gangrene.

MATERIALS

- 1. Ayurvedic contemporary text.
- 2. Review article on ayurvedic aspect of gangrene.
- 3. Articles related of cellulites and gangrene.

METHODS

Literary review from various research articles from ayurvedic text, previous studies, epidemiological data, information available on internet will be critically analyzed, assessed and evaluated as title selected here.

CONCEPT OF ANUKTA VYADHI KOTHA

As described in the Sushruta Samhita, Kotha means the process of putrefaction of the Snavu, Mansa, Sira and can be correlated with gangrene because gangrene means necrosis of tissue associated with putrifaction. [4] Kotha has very limited description in samhitas, but it can be considered and treated with the principle of Dushtavrana. Dushtavrana results when vranashothaavastha is not treated with continuation of consuming causative factors i.e Hetus. Similarly gangrene is tissue destruction caused by infection or untreated cases of cellulitis. [5] According to Acharya Charaka, one need not to be ashamed if he or she is unable to name particular disease, in fact it is not necessary to know the exact nomenclature as it is not always possible.

DushtaVrana (Acute and chronic wounds), which is difficult to heal. Dushta is one in which there is localization of *Dosha Vata*, *Pitta and Kapha*. Vrana, which had a bad smell, has abnormal color, with profuse discharge, intense pain and takes a long period to heal. DushtaVrana is a long standing ulcer where removing debris enabling drug to reach healthy tissue is more important. Wound which is contaminated and healing process is very slowly is known as DushtaVrana. Vrana which has foul smell, continuously flowing putrefied pus along with blood, with cavity, since long time and has smell etc. Vranalakshanas are high in intensity, and which is almost opposite to Shuddha Vrana is DushtaVrana. [6] In this context we can understand it as a non-healing or contaminated wound.

हेत् (CAUSES)

KOTHA	GANGRENE
शारीरिक : " पवनपित्तकफशोणितसन्निपातनिमित्तः "	Pathological - Atherosclerosis,
सु. ची. १/३	Diabetic Ulcer, Carbuncle.
आगंतुजः " पुरुषपशुपक्षीव्यालसरीसृपप्रपतनपीडनप्रहार।"	Others - Trauma
<i>सु. ची. १/३⁽⁷⁾</i>	

KOTHA (DUSHTA VRANA) LAKSHANAS

" पृतिपृयअतिद्ष्टसृकस्रावउत्संगीचिरस्थितीः

दुष्टोव्रणोअतिगंधादीः शुद्धलिंगविपर्ययः ।।माः नि

तत्रातिसंवृतोअतिविवृतोअतिकठिनोअतिमृदुरुत्सन्नो।

अवसन्नोअतिशितोअत्युष्णः कृष्णरक्तपितश्क्लादीनां ॥

वर्णानामन्यतमवर्णोभैरवः पृतिपृयमांससिरास्नायुप्रभा

पूर्णः पूतिपूयास्त्राव्युन्माग्र्युत्संगमनोज्ञदर्शनगन्धो ॥

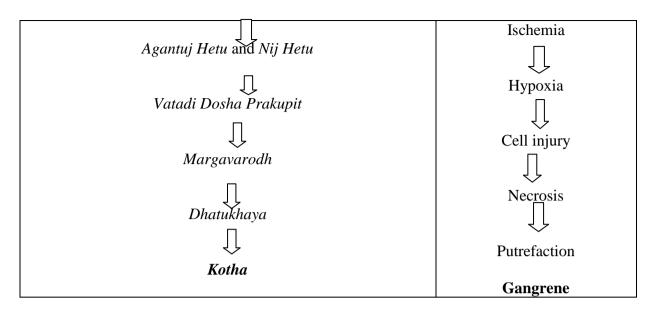
अत्यर्थवेदनावान्दाहपाकरागकण्डुशोफपिडकोपद्रुतो |

अत्यर्थदुष्टशोणितास्त्रावीदीर्घकालानुबन्धीचेतिदुष्टव्रणलिंगानि।। स्.स्. २२/७^[7]

KOTHA	GANGRENE
उत्संगीचिरस्थिती	Edematous Swelling
पूतिपूयअतिदुष्टसृकस्राव	Discharging pus
अतिगंधादी	Foul Smelling
कृष्णरक्तपितशुक्लादीनां	Colour changes which vary among dark red, green, and black
अत्यर्थवेदना	Throbbing pain
त्रातिसंवृतो	Narrowing of Blood vessels
अत्युष्ण	Hot
न्दाह	Burning sensation at the site
पाक	Suppuration
राग	Redness
कण्ड	Itching
शोफ	Swelling
पिडको	With boils

SAMPRAPTI (PATHOPHYSIOLOGY)

KOTHA	GANGRENE
SAMPRAPTI (PATHOPHYSIOLOGY)	PATHOPHYSIOLOGY of
Gangrene is considered as Kotha under DushtaVruna due to	GANGRENE
Margavarana and DhatuKashya. The two main co-morbidities	
that cause VataVyadhi are Margavarana (encapsulation) and	Trauma, atherosclerosis etc.
DhatuKshaya (depletion of Dhatu).	
	4.5



DISCUSSION

In *Sushruta Samhita* there is very little description of diseases such as *Kotha*, but in *Samhita* the word *Kotha* is described as symptom in *ChhedayagadVyadhi*, *StanaVidradhi*, *Prameh Pidika* and *Dushtavranas*.^[8]

The symptoms of *Dushtavranas* (Infected wound) described in *Sushruta* Samhita correspond to Gangrene in which *NijaDoshas* like *Vata*, *Pitta*, *Kapha* are physiological causes and *AgantujHetu* are pathological or traumatic causes.

Commentator *Dalhana* has described the definition of the word *kotha* as the process of putrefaction. Putrifaction process is seen in *Dushtavranas* (*Putibhavah*), if a *Dushtavranas* is not treated the *Mans*, *snayu* and *Sira* are affected step by step. ^[9]

Also, if the infected wound is not treated, the process of putrefaction is seen, which is termed as gangrene. The symptoms of *Dushtavrana* described in *Sushruta Samhita* are similar to *Kotha Vyadhi* such as *Vedonarvan* - Severe pain, *Daha* - Burning sensation at the site, *Paka* - Suppuration, *Raga*-Redness, *Puyasravya* – Discharging of pus, *Manojnadarshana* - With ugly sight, *Kandu* - Itching, *Shopha* - Swelling, *Pidaka* - Withboils, *Mrudu* - Soft, *Bhairava* - Frightful, *Putimamsasirasnayu* - Full of pus, muscles, vessels, ligament.

CONCLUSION

In *Sushruta Samhita* there is no description of diseases such as *kotha*, but in Samhita the word *kotha* is described in terms of symptoms and *Roghakvarana*. As in Ayurveda some *anukta*, *leshokta* diseases are described, one of them is *kotha*. Therefore, it is necessary to

give a complete description of this disease and correlate it with modern diseases to aid in treatment of disease. This information can be used for Ayurvedic treatment. From the discussions made above, it can be concluded that the Gangrene can be correlated with *Kotha* (*Dushtavrana*).

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