IMPORTANCE OF RAKTAVAHA SROTAS IN MANAGEMENT OF SKIN DISEASES

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INTRODUCTION

Healthy and glowing skin increases beauty of a person and also gives self confidence. The prevalence of skin disease in India is 10 to 12 percent of the total population with Eczema, Leucoderma and Psoriasis being the major contributors. A one percent reduction in ozone leads to a two to four percent increase in the incidence of tumors.¹ There are many reasons like pollution, ultraviolet light, and global warming, photosensitive skin disorders like tanning, pigment darkening, sunburn, skin cancers, and infectious skin diseases. These diseases can be considered as *kushtha* in Avurved. The main *dhatu* involved is Rakta dhatu and dosha is Pitta (bhrajak pitta).Due to hetu sevan (including ahara and vihara) function of *bhrajak pitta* i.e.giving normal colour to the skin get disturbed. This results in vitiation of Rakta dhatu because of Ashray-Ashrayee bhav.² Such diseases usually treated with varnya dravya which shows action on brajak pitta.But drugs which act on raktavaha srotas (mainly on yakrit), also shows effective results in skin diseases.Patient of Facial melanosis, leucoderma and psoriasis treated successfully by following the same concept are presented in this study.

AIMS AND OBJECTIVES

□ To prove the importance of *Raktavaha Srotas* in the management of skin diseases

 \Box To see the effect of *tikta,kashaya Rasa dravya(pittahar)* on *Raktavaha srotas* in skin diseases

MATERIAL AND METHODS

There are many cases of skin diseases which has been treated by using *kalpa* containing *tikta*, *Kashaya rasa dravya* which shows *pittahar* property.*Pitta* and *Rakta* shows *Ashray-Ashrayee bhav*, so the same *drvaya* are used in skin diseases showing *dushti of Rakta dhatu*.Major cases are selected for today's topic.

Case 1: Female Patient of Facial Melanosis, Age – 44 yr

C/O: Dark Black colored patches on face since 15 yrs. No itching, no Burning

Modern Medicines taken for 2 yrs for the same. Due to No significant results and side effect like hyperacidity, constipation etc came in the clinic.

H/O: Acidity, Constipation since 1 yr.

No H/O OF B.P., Diabetes

Menstrual History: Regular

Obs /H: 2 male children L.S.C.S

No H/O Abortions

 \Box Treated with

1) *Arogyavardhini vati* 1 tab TDS after food with worm water

2) *Kaishor Guggul* ³ 2 tab BD after food with worm water

3) *Laghu Manjishthadi Kwath* 2TSF + 4 Ts f worm water BD after food.

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Case 2: Female Patient of Leucoderma, Age – 38 yrs	
C/O: white coloured patches on back of neck, back	
region since 1 yr, itching.	
H/O: Acidity, Constipation since 6 months	
No H/O OF B.P., Diabetes	
Menstrual History: Regular	
No H/O Abortions	
□ Treated with	
1) Arogyavardhini ⁴	1 tab TDS after food with
warm water	
2) Khadiradi kashaya ⁵	2 tsf + 4 tsf worm water BD
after food.	
3) Gandharva haritaki	2 tab at bed time with warm
water	
4) Swayambhu guggul ⁶	1 tab TDS after food with
warm water.	
5) Gandhak Rasayan ⁷	1 tab TDS after food with
warm water.	
6) Mahatikta ghrit ⁸	1 tsf in morning with warm
water	

Case 3: Male Patient of Psoriasis, Age – 35yrsH/o- constipation, anorexia, mental stressNo h/o: any addiction, or hereditary factorC/o : red small patches on face and back, dandruff,scalp itching for 7-8 monthsTreated with Vaman ,Virechana using Mahatiktakghrita as a sneha pan followed by 6 months medicinesas below :1) Raktapachak Yog2 tab BD with worm waterafter food2) AragvadhKapilla vati2 tab after food at bed time3) Mahatiktak ghrita1 tsf BD after food withwarm water

All patients are advised to follow *Pathya* (*Ahara* and *Vihar*)

OBSERVATIONS AND RESULTS:

Case 1: Facial Melanosis

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Fig.1: Before treatment- Dark patches on face



Fig.2: After 30 day's treatment- No patches

Case 2 : Leucoderma





Fig. 3: Before Treatment - white patches on back and back of neck

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Fig.4: After Treatment- patches shows normal skin colour

Case 3: Psoriasis



Fig.5: Before treatment- red small patches on face, itching



Fig. 6: After treatment- no patches

DISCUSSION

1) Ayurvedic perspective:

Due to vitiated Pitta, Ranjan karma of bhrajak pitta get disturbed, leading to formation Dushta Rakta Dhatu. The Dushta Rakta through Raktavaha Srotas causes production of Kushtha .9 Hence, to correct the function of vikrut pitta, various drugs are used which are madhura, tikta and kashaya rasa having *pittahara* properties .¹⁰ These shows diseases positive effect in skin i.e. *Raktashodhan*, *Raktaprasadan*. It normalize the function of Bhrajak pitta, corrects vikruti in Raktavaha srotas and produces normal Rakta Dhatu .Also, it avoids reoccurrence of symptoms if treated in early stage of disease.

So,one should not think only about varnya dravyas while treating skin disease but also concentrate on *Raktapachak*, *raktashodhak* and raktaprasadak dravya. Kalpa (Arogyavardhini, raspachak yog, mahatiktak ghrut etc) used in treatment contains mainly tikta dravya like kutaki,guduchi,patha,patol etc. are hepatoprotecive.^{11,12}(*mulashtana* of Raktavaha Srotas)

2) Liver and skin diseases: Liver X-receptors (LXRs) are members of the nuclear receptors family such as PPAR (Peroxisome proliferator-activated receptors), RXR (Retinoid X receptor).

There are two isoforms of LXR (LXR a, LXR b); **LXR** was first identified in the liver (hence the name liver X receptor). Also, it is expressed in other metabolically active tissues such as kidney, intestine, adipose tissue ¹³ and in all layers of the epidermis within the skin.¹⁴ Activation of LXRs stimulates keratinocyte differentiation, decrease proliferation and increased cell death.¹⁵ LXR is a member of the nuclear hormone receptor superfamily of ligand-activated transcription factors. It can be speculated that LXRs might play an important role in the pathogenesis of abnormal keratinisation as well as pigmentary disorders, this may be through target genes involved

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in regulation of keratinocytes, melanocytes and sebocytes of LXRs.

In case of psoriasis: The primary pathogenic mechanism for psoriasis is likely to be due to abnormal regulation of T cell-keratinocyte associated with complex cytokine network.¹⁶ Many cytokines form a complex and multi-dimensional network in the pathogenesis of psoriasis, none of which alone can be considered to be the causative mechanism. The importance of T cell activation has been demonstrated in psoriasis.¹⁷

Liver X receptor activators display antiinflammatory activity in irritant and allergic contact dermatitis models and primary cytokine production.¹⁸Abnormal keratinocyte differentiation has been found to be caused by a number of markers in psoriasis.Several possible biochemical causes for the overproduction of the keratinocytes have been found in psoriatic skin.It was proposed that restoration of LXR a expression/function within psoriatic lesions may help to switch the transition from psoriatic to symptomless skin.¹⁹

In case of Leucoderma: The precise pathogenesis of vitiligo has remained elusive. Theories regarding loss of melanocytes are based on autoimmune, cytotoxic, oxidant antioxidant and neural mechanisms. Cell-mediated autoimmunity has been suggested to be involved in the melanocyte apoptosis that occurs in vitiligo. The expression of LXR a in perilesional melanocytes of vitiligo is significantly higher than normal skin.²⁰

CONCLUSION

Skin Diseases can be successfully treated by using *Tikta,kashay rasa,pittahar dravyas* which also corrects *raktavaha srotas dhushti* producing normal *Rakta dhatu* by normalizing the function of *Bhrajak pitta* in turn.So, *Raktavaha srotas* plays important role in the skin diseases.

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