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A CASE STUDY ON MANAGEMENT OF KELOID WITH VIRECHANA

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ABSTRACT

Keloid refers to irregularly shaped, thickened, firm, hypertrophic, pink or red lesion associated with tenderness, pain and pruritis which is generally due to fibroblast dysfunction. Wound healing is a complex process involving fibroblasts, profibroblast along with overproduction of type 1 procollagen which takes about 3 months to one year for its manifestation. Where the skin restores the lost tissues by scar formation and the new cell is supplied by new vasculature and incorporates new connective tissues. There is a change in the organization of the components from that of the dermis. Some develop it more often due to preceding injury, skin trauma, due to acne, folliculitis, burns, body piercings, surgical wounds or sometimes without a cause and this deregulation makes it difficult to cure and is associated with high rate of recurrence. Normal scars seem to have negative feedback mechanism where the fibroblasts are mobilized to repair their cutaneous defect. This negative feedback mechanism is defective in keloid formation. It has an effect on the aesthetic beauty concept which can create a mental agony too. Thus, keeping the versatility of Shodhana (purificatory measure) in mind, an attempt was done to manage the condition with Shodhana and marked changes were noted in the condition.

Keywords: Keloid, Vrana granthi, Shodhana,

INTRODUCTION

Keloid scar and hypertrophic scar are often confused. But it is important to be able to distinguish the two different pathological conditions. Keloid scars resemble hypertrophic scar superficially it is elevated but unlike hypertrophic scar they extend beyond the boundary of the original injury or incision. They can form within previous normal scar too. Often apparently in response to hormonal stimuli at the puberty or during pregnancy and diminishing sometimes after the menopause. Males and females are equally prone to keloid scars, but darker skin typed especially skin of African genetic origin are 15 times more prone. It involves abnormal collagen metabolism resulting in higher than usual proportion of type 3 collagen. They are more likely to form wounds that undergo inflammation without resolution for more than 3 weeks and are associated with tissue hypoxia and sustained level of transforming growth factor Beta 1 and 2 within the wound. Keloids contain thick collagen and have increased level of epidermal hyaluronic acid. Pressure from compressive dressings or clip on earrings increases collagenic activity and decreases collagen synthesis. Corticosteroids are used to decrease collagen synthesis. Cryotherapy and intralesional steroids injections are combined in treatment. Radiotherapy is also used but should be balanced against long term side effects.²

CLASSIFICATION:3

CLINICO-MORPHOLOGICAL CLASSIFICA-TION:

- 1.Acute
- 2.Subacute
- 3.Chronic

ETIOLOGICAL CLASSIFICATION:

- 1. Due to injury
- 2. Due to inflammation
- 3. Miscellaneous

ACNE VULGARIS:

Acne vulgaris is a chronic inflammatory disease of the pilosebaceous unit. It is due to androgen induced sebum production, altered keratinization, inflammation. These are present on face back, chest where it is more prone.

In Ayurvedic science, the condition of keloid can be studied under Vrana Granthi.5

Vitiated Doshas accumulating in Maamsa and Medo Dhatu along with Kapha accumulates forming Ggranthi and is Asadhya. 6 incurable. Susrutha opines the same.⁷

CASE REPORT: -

PRESENTING COMPLAINTS:

A fifteen-year-old female c/o pink to reddish firm nodules on the right shoulder, upper back associated with itching in the last 5 years.

ASSOCIATED COMPLAINTS:

The complaints are associated with acne vulgaris since 5 years. The condition gets worsened during the menstrual phase.

CASE HISTORY

A fifteen-year-old young female who is n/k/o of HTN or DM was apparently fine five years ago. On attaining menarche, she developed acne vulgaris on and off which was found to be increasing with time and aggravated during the menstrual period especially. Later, she noticed a small reddish nodule on the right shoulder often pruritic and was gradually increasing in size. She had no h/o skin rashes or other skin ailments before its development. No h/o trauma, no h/o insect bite or any drug reaction were informed on interrogation. Lesion was firm, irregularly shaped, hyperpigmented erythematous nodules. Within a year it developed over both the upper limbs, spreading to the para sternal region, shoulder and also on the upper back. It was extensive, multiple, painless which was pinkish on eruption later turning to brown in color. Patient denied a positive history of the same in the family or any viral, autoimmune or other related pathological entity. She took allopathic and homeopathic treatment for the same for a short duration and had no much relief.

On interrogation:

- No history of trauma in the recent time of complaints.
- No history of allergy
- No history of insect bite.

- ✓ Birth-Uneventful, full term, normal vaginal delivery.
- ✓ Childhood uneventful, Milestones were attained on time.
- ✓ No history of chickenpox
- ✓ No history of surgery, trauma
- ✓ Took allopathic and homeo- medications for few weeks for same complaints, details not known.

GENERAL EXAMINATION

EXAMINATION(AYURVEDIC)	GENERAL EXAMINATION
Nadi(pulse)-89/min	Pallor-present
Mala(body waste)-prakruta	Icterus-absent
Mutra(Urine)-samyak, 4-5 times/day	Lymph nodes-palpable
Jihwa(Tounge)-upalipta	Clubbing-absent
Shabda(Voice)-prakrita	Oedema-absent
Sparsha(Touch)-Ruksha	
Druk(Eye sight)-prakrita	
Akruti-Prakruta	
Sara,satva,samhanana-madhyama	
Ahara Shakti,vyayama shakti-Prakruta	

SYSTEMIC EXAMINATION:

CNS	HMF-Intact, cranial nerve examination-normal
RS	NVBS heard
CVS	S1 S2 heard
P/A	Soft, non-tender, no organo megaly
Integumentary system examination	Affected
Musculoskeletal examination	Muscle power-5/5 bilateral upper and lower limbs.
	Normotonic.

LOCAL EXAMINATION

Integumentary system:

Site of lesion	over the bilateral upper limbs, chest and lower limbs.	
Distribution	Generalised	
Symmetry	Asymmetrical distribution	
Secondary lesion	excessive scarring	
Colour	initially pinkish-reddish, later brownish discolouration	
Discharge	Absent	
Odour	Absent	
Associated features	Itching	
Surrounding skin	Reddish discoloration	
Tenderness	Present	

NIDANA PANCHAKA:

Dosha involved-vata kapha

Aharaja nidana (Dietary cause)- Regular intake of Maamsa, Matsya Aahara. (Non-vegetarian food) Daily intake of curd, fermented food like idly, dosa etc. More affinity to fried and processed food.

Viharaja Nidana_(Lifestyle cause)-Sedentary lifestyle, Diwaswapna (day sleep), Alpacheshta (less physical activities).

Poorvaroopa (premonitory symptom)- Kandu (Itching) Roopa (symptoms)-Elevated brownish nodular lesion on the B/L upper and lower limbs and chest

Upashaya- medication

Anupashaya- Menstruation, stress

DIAGNOSIS: Keloid/Vranagrandhi due to repeated acne vulgaris.

INTERVENTION:

20/12/2020	Chitrakadi Vati 2 TID
From 21/12/2020	Snehapana with Anabhishyandi Ghrita for 7 days.
For next 3 days	Nimbapatra Parisheka and Abhyanga with Danta Pala Taila.
29/12/20	Madhyama Shudhi was attained and was followed with Samsarjana Krama

^{*}Subjective changes symptoms of itching and discomfort were reduced according to the patient.

VANCOUVER SCAR SCALE:

VASCULARITY	ВТ	AT
Normal		
Pink	1	1
Red		
Purple		
PIGMENTATION		
Normal		
Hypopigmentation	1	1
Hyperpigmentation		
PLIABILITY		
Normal		
Supple		
Yielding		2
Firm	3	
Ropes		
Contractures		
HEIGHT mm		
Flat		
<2		
2-5	2	2
>5		
Total score	7	6

^{*}Objective changes-decrease in the size of lesions were observed.

MANCHESTER SCAR SCALE		
COLOUR	3	2
Matte vs shiny	2	1
Contour	4	4
Distortion	3	2
Texture	4	3
Total score	16	12





DISCUSSION

Keloids are benign proliferative growth of dermal collagen that usually result from the excessive tissue response to skin trauma in predisposed individual. The balance between collagen synthesis and degradation is maintained by matrix. The general management of the condition is said to be Compression therapy, cryotherapy, laser therapy, surgical excision, where the aim lies in correction of the abnormal balance of collagen synthesis and degeneration by altering the immune inflammatory response. In condition of extreme overgrowth of scar tissue beyond the limits of the original wound and shows no tendency to resolve. On attempt to manage the condition with Shodhana treatment like Virechana, which is said to restore the normal functioning of Sapta dhatus at Dhatwagni level help to bring the pathological process under control. Thus, an attempt was done with Anabhishyanta Ghrita Snehapana followed by Virechana which showed up a mild change which was documented here

CONCLUSION

Keloid being a condition which is not just physical but also causing a mental agony, having back minimal management strategies, and on execution of the condition with standard Shodhana procedure with Anabhishyanda Grita followed by virechana showed mild changes which has significant changes in the parameters as mentioned above.

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