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Effect of Panchatikta Ghrita and Gandhakadi Taila in the Management of Kitibha (Psoriasis) - A Case study

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Abstract:

Psoriasis is resemblance to the Kitibha Kushta in Ayurvedic perspective and has a significant impact on a patient's quality of life. Kitibha is one of the common dermatological health issue found in Sri Lanka and the study has been focused to evaluate the efficacy of two herbal formulae in the management of Kitibha disease. Fifty four years old male patient presented with Mandala (Erytromatous Plaque), Ruksha in the affected skin (Roughness of the skin), kandu (Itching), Twak Vidarana (scaling) along with Daha (burning Sensation) all over the body since 9 months, attended to the OPD in the Department of Kayachikitsa, National Ayurveda Hospital, Borella, Sri Lanka. The patient has been treated with Manibhadra Churna 10 mg morning and evening for consecutive 7days as internal medicine. At the end of the seventh day; Gandhakadi Taila has been applied as an external treatments for the lesions twice a day while Panchatikta Ghrita has been administrated 5 ml orally two times per day for three weeks. The visual Analog scale (VAS) has been adopted for the assessment of the efficacy of treatment regime. It was observed that end of the study period; clinical features of Kandu (Itching) Daha (Burning sensation) and Rakta Srava/ Rakta Pitika (Pin point bleeding) was reduced completely and 75% relief was showed in Vivarnatha (Discoloration of skin), Kina (dry scaling), Rukshata (Roughness) and Vruththan Vrudhimanthi (Elevation of the patches) accordingly. In view of the above it can be concluded that treatment protocol is effective in the management of kitibha Roga in Ayurveda perspective.

Keywords: Gandhakadi Taila, Kustha, Kitibha. Manibhadra Churna, Panchatikta Ghrita, Psoriasis, Skin disorder.

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Introduction:

Psoriasis a multifactorial. chronic inflammatory relapsing skin disease affecting 1-2% of the general population and it has identified as a serious health challenge in the present global society^[16]. It has been considered only a disease of the keratinocytes which involves basal cell hyper proliferation with an increase in the epidermal cell turnover rate. The prevalence of psoriasis in Sri Lanka is estimated to be over 0.4% [5] and it became a serious global health issue approximately 100 million individuals are affected worldwide. Psoriasis is a common and chronic inflammatory, auto immune skin disease, with an unpredictable course. It is characterized by raised, sharply demarcated, erythematous plagues covered with white silvery scale. It is a lifelong disorder associated with multiple co-morbidities and considerable psychosocial disability. The negative impact of this condition on patients' quality of life can be immense.

The clinical symptoms of psoriasis are most resembled with Kitibha Kushta in Ayurveda medicine. Kitibha disease is considered as Vata Kapha predominant Thidosaja Vyadhi, [13] with the clinical features of *Shava Aruna* Varna mandala (erythromatous plaque), Kandu (itching), Kina (Scaling), Khara Sparsha (Rough), Rukshata or Parusha (coarseness), Daha (burning sensation), Vruddhimanti (elevated round Vruttan patches), Ghana (Thick), sravi (oozing), Punakh Punarudpadyanthe (relapses & remission)^[6,8,13,15,16,17,]. It is ensure that the successful treatment has been not established yet for this disease in modern medicine. The medicines which are available to treat the disease are not very effective and cannot be used for long term management because of their local and systemic side effect. Hence, the case study is innovated to find the effective treatment regime in the management of *kithibha kushta* based on the *Ayurveda* principles and treatments. [13]

Case History:

A fifty four years old previously healthy male patient presented with four months history of multiple mandala with Aruna Varna (erythromatus plaques) covered by Shayava Varna (silvery scales) with kina Kandu (Itching), Ugra Kandu (Scaling), (scratching), *Dhaha* (Burning sensation) Srava (pin point bleeding). The plaques were Utsanna Mandala (well-defined), Vruttan Vruddhimanthi (Elevated sharply demarcated boundaries), ranged from 3 to 10 mm in diameter, were limited to the scalp, the trunk, the abdomen and the anterior aspect of the upper limb especially pronounced in the proximal third of both the thigh and the knee. The lesions were first noticed in the scapular region progressively extended within a few weeks to the trunk, the abdomen, lateral aspect of the upper limbs, and the anterior aspect of the lower limbs. Lesions in the nails were also observed, and there was no personal or family history of skin diseases. The patient stated that he had same clinical features before ten months and subsided after the medication. In spite of continuous

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medication, the status of health has deteriorated and the patient was admitted in the I.P.D. of Kayachikitsa at the National Ayurveda Teaching Hospital, Borella, Sri Lanka.

Methodology:

Diagnosis was established on the basis of clinical sign and symptoms of *Kitibha* disease mentioned in authentic *Ayurvedic* texts Hematological and biochemical investigations such as ESR, FBC, FBS, UFR, Lipid profile were carried out before and after the treatment. Previous history of the drug administered and other medical history were recorded in detailed manner in a prepared special proforma.

Treatment protocol:

Duration of the treatment was 1 month and follow up period was 2 weeks. The patient

was treated with *Manibrada churna* 10 gm twice a day after the meal with luke warm water as internal medicine for first consecutive 07 days. *Panchatikta Ghrita-5* ml^{[12],} was administered for consecutive 21 days twice a day before meal along with local application of *Ghandhakadi Taila* (Sri Lankan traditional oil) twice a day after the meal (Table-1).

Ppreparation of Trial Drug:

Panchatikta Ghrita (table-2) and Gandakadi Taila (Sri Lankan Traditional oil) (Table-3) were prepared according to Ghrita Taila Paribasha. 1.8kg bark and leaves of Burulla (Leea indica) was mixed with 200gms of scraped coconut (Cocos nucifera) and juice has been removed from the mixture and added ingredients (Table -3) and prepared the oil according to the Sneha paka kalpana^[10].

Table 1: Scheduled Treatment to the patient:

Day	Medicine	Treatment schedule		
		Dose	Mode of	Duration of
			administration	treatment
1-7 days	Manibhdra churna	10 gm ,morning & Evening	With luke warm	7 days
		After meal	water	
8-30 days	Panchatiktha	5 ml full before meal	Warm water	21 days
	Ghrita ^[9]	morning& Evening		
8-30 days	Ghandhakadi Taila	Morning & Evening	Local application	21 days
		quantity of the oil was		
		depended on the severity of		
		the lesion		

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Table 2: Ingredients of *Panchatikta Ghrita*:[11,12]

	Sankrit Name	Botanical Name
Kwata	Vasa	Adhatoda vasica
	Guduchi	Tinospora codifolia
	Nimba	Azadirachta indica
	Kantakari	Solanum virginanum
	Patola	Trichosanthes curcumerina
Kalka	Haritaki	Terminalia chebula
	Vibihitaki	Terminalia bellerica
	Amalaki	Phyllanthus embilica
Ghrita		(Ghee)

Table-3 Ingredients of Gandhakadi Taila:

Sankrit Name	Botanical Name
Burulla	Leea indica
Gandaka	Sulphur
Tutta	Copper sulphate
Coconut	Cocos nucifera

Criteria for Assessm	ent:	skin)
Efficacy was assessed features: [2,4,7,8,13,14,15,	d by following clinical	 Kina (Dry scaling) Rakta Srawa / (Pin point Rakta pitika bleeding)
KanduDaha	(Itching sensation) (Burning sensation)	 Rukshata (Dryness) Vruththan (Elevated Vrudimanthi ,demarcated round)
• Vivarnatha	(Discoloration of affected areas of the	plaques) Extent of the changes of clinical features was evaluated on Visual Analog Scale

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(VAS) ^[3] score at baseline and at every follow up visit till the end of the study. ^[4] Therapeutic effects of treatment protocol were evaluated through—symptomatic relief based on the grading system. The scoring pattern adopted for assessment [Table-4] of clinical features of Kitibha is as follows:

Analysis of Data: The data were analyzed adopting the percentage reduction of signs and symptom of *Kitibha* disease at different visits as shown in table-5.

Table 4: Grading scale of Clinical features:

Clinical Features	Grading scale		
Kandu	No itching	0	Normal
Itching sensation	Occasionally feel itching	1	Mild
	Moderate (tolerable) itching	2	Moderate
	Severe itching (Disturb daily works)	3	Severe
Daha	No burning sensation	0	Normal
Burning sensation	Occasionally burning sensation		Mild
	Often burning sensation	2	Moderate
	Always burning sensation (Disturbing sleep	3	Severe
	and other activities)		
Vivarnatha	Normal skin colour	0	Normal
Discoloration of affected	Near to normal which look like pinkish red	1	Mild
areas of the skin	colour		
	Slight pinkish red colour	2	Moderate
	Deep pinkish colour	3	Severe
Kina	No Scaling	0	Normal
Dry scaling	Scaling off between 15-28 days	1	Mild
	Scaling off between 4-7 days	2	Moderate
	Scaling off between 1-4 days	3	Severe
Rakta Srawa / Rakta	No pin point bleeding	0	Normal
pitika	Occasionally pin point	1	Mild
Pin point bleeding	Intermittently pin point bleeding	2	Moderate
	Always pin point bleeding	3	Severe
Rukshata	No line on scrubbing with nail	0	Normal
Dryness	Patient line on scrubbing nail	1	Mild
	Markley lining and even words can be written	2	Moderate
	on scrubbing by nail		
	Rukshata leading to crack formation in the skin	3	Severe
Vruththan Vrudimanthi	No elevated or demarcated plaques	0	Normal
Elevated ,demarcated	More elevated slightly demarcated plaques	1	Mild
round plaques Elevated slightly demarcated plaques		2	Moderate
	Elevated very well demarcated plaques	3	Severe

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Table: 5 Therapeutics effects on clinical signs and symptoms for treatment protocol

Sign & Symptoms	Before	After the	Percentage
	treatment	treatment	Reduction
Kandu (Itching)	Grade 3	Grade 0	100%
Daha (Burning sensation)	Grade 2	Grade 0	100%
Vivarnatha (Discoloration of skin)	Grade 3	Grade 1	75%
Kina (dry scaling)	Grade 3	Grade 1	75%
Rakta Srava/Rakta Pitika (Pin point bleeding)	Grade 1	Grade 0	100%
Rukshata (Roughness)	Grade 3	Grade 1	75%
Vruththan Vrudhimanthi (Elevation)	Grade 3	Grade 1	75%

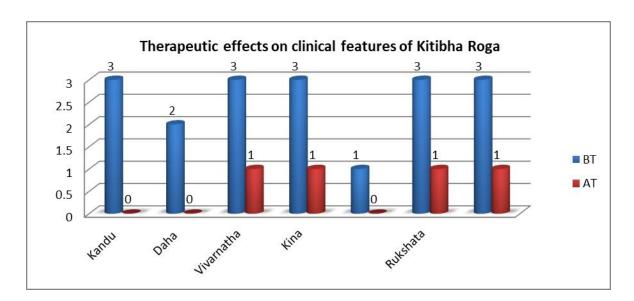


Figure 1: Therapeutic effects on clinical features of Kitibha Roga

Observation and Results:

Based on the study it has been was observed that *Kandu* (Itching), *Daha* (Burning sensation), and *Rakta Srava/ Rakta Pitika* (Pin point bleeding) were completely reduced and 75% reduction were observed in *Vivarnatha* (Discoloration of skin), *Kina*

(dry scaling) *Rukshata* (Roughness) *Vruththan Vrudhimanthi* (Elevation).

Hematological and biochemical investigations such as ESR, FBC, FBS, UFR, Lipid profile were not changed after the treatment.

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Images of Therapeutic effect of the treatment protocol:

Front View



Figure- 2A: Before the treatment



Figure -3A: After 14 days treatment



Figure- 4A: 1 month treatment

Back view



Figure- 2B: Before treatments



Figure- 3B: After 14 days treatment



Figure- 4B: After 1 month treatment

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Figure -5A: End of the 6 weeks



Figure- 5B: End of the 6 weeks

Discussion:

Ingredients of Panchatikta Ghrita has Katu (pungent), Tikta (Bitter), Kashaya (Astringent) Madura (Sweet), Laghu (Light), Ruksha (Roughness) and Sheeta (cold) Snigdha (Oily) properties along with Ushna Virya (hot in potency) helps to pacify Vata Pitta and Kapha Doshas. Due to pacification of Vata Dosha subside Khara sparsha (Roughness), Kina (Dry Scaling), Parusha (Coarseness) as well as Shyava Varna (Blackish brown colour) and Aruna Varna (Pinkish red colour) in Kitibha Roga. Due to pacification of Kapha Dosha helps to (Itching), subside Kandu Vruttan Vruddimanthi (Round elevated demarcated plaque), Gana (Thickness plaque), Sthira (localization/ steady plaque), Upalepa (adhesion of plaque/ clusters) of Kitibha plaque. In addition, pacification of Pitta Dosha helps to decrease Daha (burning sensation and Srava (Pin point bleeding) of Kitibha disease. Further, ingredients of Ghandhakadi Taila has Katu, Kashaya Pradhana Rasa which helps to pacify *Pitta* and *Kapha Dosha*^[1]. Due to pacification of Kapha Dosha leads to minimize the clinical features of Kandu,

Vruttan Vrudhimanthi. Sthira. Gana. Upalepa of Kitibha disease. Moreover, pacification of Pitta Dosha leads to subside Daha and Srawa of the skin lesions... Madura Rasa, Ushna Veerya and Snigdha properties pacify Vata Dosha and leads to cure Kina Khara sparsha, Parusha, Shayava Varna in Kitibha plaques. Properties of Snigdha, Vyavayi , Laghu, Yogawahi and Abishyandi support to pervaded medicinal properties of Ghandakadi oil in to deeper tissue of the skin. In addition, it has kandugna, Kushtagna, Dahaprashamana, shotagna, kaphagna, Varnakara and Vranaropana properties and biochemical analysis revealed that it has inflammatory, anti ulcer, anti microbial, anti Viral and anti oxidant effects.

Conclusion:

Based on the study it can be concluded combination of *Panchatikta Ghrita* and *Gandhakadi Taila* is effective in the management of *Kitibha Kushta* (Psoriasis). Further clinical, biochemical and toxicity studies should be carried out in lager scales to evaluate the efficacy of the said treatment protocol.

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