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"COMPARATIVE CLINICAL STUDY TO EVALUTE EFFICACY OF 'DARVYADI KWATH'AND 'TRIPHALA KWATH' IMPROVING PASI SCORE IN MANAGEMENT OF EKAKUSHTA (~PLAQUE PSORIASIS)."

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Abstract-

The disease not only disturbs the patient physically but also interrupts the mental and social health of the patient, as the appearance of patient may be embarrassing. Ekakushtha is described elaborately in terms of Nidaana (etiology), Purvarupa (prodromal symptoms), rupa (cardinal symptoms), samprapti (pathogenesis), Chikitsa (Treatment) and pathya-apathya (conducive and non-conducive diet). association between Ekakushtha with Plague Psoriasis is established on the basis of features. Detail description of Plague Psoriasis is given in terms of definition, prevalence, etiopathology, others types of psoriasis, difference diagnosis, complication and treatment. Inscription psoriasis is the utmost shared form of psoriasis, marks between 58% & 97% of all belongings of psoriasis Ekakushtha is the one type out of the eleven kshudra kushthas. Ekakushtha is stated to be tridoshaja with dominance of kapha- vata dosha. Matsya means fish and shakala means splint or fragment. Matsyashakalopama means fragments of fish like structure; it means scaly plaque or popular lesions on the skin. On the clinical manifestation it seems to be equivalent clinical entity plaque psoriasis described in modern and classical literature. Ekakustha is the skin disease among the Kshudra kustha which has symptoms of aswdanam (not perspire), mahavastu (extensive), yana masyoshakalalopamam (looks like fish scale) and aruna varna (discoloration). Ayurveda encourages diet plans and medical procedures that support psychological, emotional, and physical health. Previous studies also reported the effective management of Ekakustha (psoriasis) through Ayurveda. It is addressed by Ayurveda using its dual treatments. Shaman and Shodhana By eliminating the disease-causing, vitiated *Doshas*, shodhana therapy improve the body on an additional level. The five purificatory processes mentioned in the classics include *virechana*, which involves the expulsion of vitiated doshas through

the anal canal. *Virechana* is a very well-known and commonly used *Shodhana* therapy, specially for skin problems, because to its simple administration and little consequences.

Keywords- Kshudra Kustha, Ekakushta, Chikista, Clinical Study Darvyadi Kwath'and 'Triphala Kwath'

Introduction-

All dermatological disorders are coming under the umbrella of term *Kushtha* as per Ayurvedic texts. *Kushtha* produces psychological and physical discomforts due to the blemished skin which itself is proved by means of the name. In *Ayurveda* all the skin diseases are described under one term '*Twagdosha*.¹ Major skin diseases have been described under *kushtha*. Which deforms the skin colour and gives an ugly look is called *Kushtha*.² *Kushtha* is transmittable disease.³ but all skin diseases are not contagious such as leucoderma and have ascribed the involvement of *krimi* (~bacteria, worm, yeast, fungi) along with other factors in its expression. Some skin diseases are transmitted genetically from parents to children.⁴ The *kushtha* is *tridoshaja vyadhi* but variants of the *kushtha* depend upon predominance of particular *dosha*. Etymologically *kushtha* is defined as "*kushnati vapuh eti kushtham*" which means anydiseases which deform the skin are known as *kushtha*. The *kushtha* is a *tridoshaja vyadhi*. But differential diagnosis of *kushtha* depends upon the predominance of particular *dosha*.

Aim and Objective- A Comparative clinical study to evaluate the effectiveness of '*Darvyadi kwath*' and '*Triphala kwath*' Improving PASI score in management of *Ekakushta* (~plaque psoriasis).

Acharya Charaka characterised a large variety of skin conditions with their aetiology, pathophysiology, and particular classification under the term *Kushtha*. He has listed 18 different varieties of *Kushtha*, which are further broken down into *Maha Kushtha* and *Kshudra Kushtha*. In *Nidana Sthana*, a *Maha Kushtha* is a description of seven different forms of *Kushtha*. Eighteen different forms of Kushtha have been categorized into the *Chikitsa Sthana's* 7 *Maha Kushtha* and 11 *Kshudra Kushtha*. Other allusions to *Kushtha* are found in *Charaka Samhita* in addition to the descriptions of *Kushtha* in *Nidana Sthana* and *Chikitsa Sthana*. A few of them are as follows: *Kushtha* is referred to as *Nija Shotha's Samanya Hetu*. One who practises *Santarpanajanya* is *Kushtha*.

All long-term skin diseases, including psoriasis, are caused by a confluence of genetic predispositions, immunological stress, nutritional deficiencies or sensitivities, and toxin buildup in the body. Chronic, erratic and resistant to therapy, illness progression is typical. Immune-mediated, phenotypically diverse, and frequently relapsing and remitting in nature is psoriasis.

"Ekakhyam Mahashrayam Aswedam Yat Matsyashakala Sannibham" 6

Ekakushtha is defined as one variety of Ashtadasha Kushtha which is characterized by Aswedanam (Anhydrosis), Mahavastu (extending throughout body) and Matsyashakalopamam (Skin appears like fish scales). Acharya Vaghbhata, Madhavakara, Bhavamishra, Yogaratnakara gives the sameparibhasha as said above.

Acharya Sushruta defines Ekakushtha is a skin condition, in which color of the lesions will be Krishna, Aruna. Acharya Bhela defines Ekakushtha as a skin disorder which spreads like Visarpa associated with vikunam and parisrava According to Kashyapa, Ekakushtha is produced from Visarpa and associated with Srava, Vedana, Krimi.

Material And Methods-

Present research work entitled "A Comparative Study to Evaluate the Effictiveness of 'Darvyadi kwath' and 'Triphala kwath' in management of Ekakushtha(~plaque psoriasis) was carried out in 56, patients suffering from Ekakushtha and fulfilling the inclusion and exclusion criteria and ready to sign in consent form. It was single centred, open level, randomized (simple) interventional type of clinical trial.

The trial subjects were selected from OPD of CBPACS Hospital, New Delhi on the basis of inclusion and exclusion criteria and randomized into two groups A group A were administered 'Darvyadi kwath' in 40ml dose, two times a day and empty stomach for 45 days. Group B patients were administered 'Triphala kwath' in same manner as Darvyadi kwath for 45 days. Assessment was done on the basis of change in PASI Score, Ekakushtha symptoms severity Score.

Detail of the treatment administration: Registered patients will be divided into 2 groups (56 in each group).

Group A: 'Darvyadi kwath' was given in 28 registered patients who were suffering from Ekakushtha (plaque Psoriasis).

Dose: (1 pal) 40ml, two times a day, empty stomach in morning and after at least 4 hours of afternoon meal for 45 days.

Group B: 'Triphala kwath' was given in 28 registered patients who were suffering from Ekakushtha (plaque Psoriasis).

Dose: (1 pal) 40ml, two times a day, empty stomach in morning and after at least 4 hours of afternoon meal for 45 days.

In this study, a humble attempt is made to select two such drugs, which are thought to be effective in *Ekakushta*. Therefore '*Darvyadi kwath*' and '*Triphala kwath*' in decoction form were selected for the management of *Ekakushtha* (~plaque psoriasis).

Individuals presenting with minimum four of the clinical features of *Ekakushtha Aswedanam* (loss of sweating) *Mahavastu* (spread of lesion) and *Matsyashaklopam* (slivery scaling) and other features i.e *Krushna – arun varna* (blackish red discoloration).

Inclusion criteria: -

- a) Age: 20 year to 60 years.
- b). Sex: both sex (male and females).
- c). Patient having the clinical feature of *Ekakushtha* (~Plaque Psoriasis).
- d). Patient having chronicity of psoriasis less than 5 year and more than 6 months.
- e). Patient willing to give consent for trial with firm residential address and contact.

Exclusion criteria: -

- a) Age: less than 20 year and more than 60 years.
- b) Patient suffering from Diabetes Mellitus, Cancer, Cardiac Problems, Uncontrolled Hypertension, Acquired Immunodeficiency Syndrome (AIDS), Tuberculosis (TB), Renal Disorder.
 - c) other co-skin disease.
 - d) Pregnant women and lactating mother.
- e) Drug or Alcohol Abuse: A Known or suspected history of chronic alcohol or drug abuse h) Hypersensitivity to any of the drugs to be used in study.

'Darvyadi kwath'- 7

'Darvyadi kwath' is a compound drug in decoction form of three herbal drugs composed of Daruhaldi,Nimba.Khadir.Darvyadi is described for treatment of kushthas (dermatological manifestation) in Ashtang hridya Chikitsa sthan 19/37,and.

- Out of these 3 components viz. *Daruharidra* is *katu tikta*, removes *tvak dohsa* pacifies *kapha*, is *raktashodhaka* (antiscorbutic), *shothahara* (~anti inflammatory), *krimighna* (~antimucribial). Its use for treating inflammation and skin diseases is well documented.
- *Khadir* is considered as the best promising drug for all types of skin diseases. Its *shothahar* (~antiinflammatory) *kadughna* (~antipruritic), *kushthaghna* (~alleviates skin diseases), *sthambhan* (~astringent), *rasayana*(~rejuvenating) properties can check and arrest the progression of skin diseases and help with disease remission.
- *Neem* is also known as *Tiktaka* due to its *tikta* property. It is said to pacify *Tridosha*, is *kanduhar* (~antipruritic), *kushathghna,krimighna* (~antimicrobial). *Neem* possesses anti-inflammatory, anti-histamine and anti-microbial properties.

TRIPHALA KWATH: 8

Reference – "TRIPHALA KWATH" (CHARAK CHIKITSHA 7/97)

Composition of 'Triphala kwath'-

S.No.	Drug Name	Latin Name	Part Name	Quantity
1	Haritaki	Terminalia	Fruit	1 part
		chebula		
2	Bibhitaki	Terminalia	Fruit	1 part
		bellirica		
3	Amalaki	Embilica	Fruit	1 part
		officinalis		

Observation and Result

Observation:

- 15 % patients were belonged to age group of 21-30 year, and 16% patients belonged to 51-60 yrs. age group.
- 35% patients of 'Ekakushtha' were male and 21% were female.
- 57% patients were vata-Pittaj prakriti. (Group A 14 and group B 18) total 35 patient were vata-pittaj prakriti.
- 41.07% patient were *vata-kaph*aj (group A 13 and group B 10) total 23 patients were *vata-kaphaj prakriti*.
- Scaling, loss of sweating, black-reddish plaque rashes were present in all registered Patients.
- Aswedanam-

Aswedar	ıam	Mean	Median	SD	SE	Wilcoxon W	P-Value	% Effect	Result
Group	BT	1.68	2.00	0.72	0.14	-4.584 ^b	0.0000046	82.98	Sig
A	AT	0.29	0.00	0.46	0.09	1.501	0.0000010	02.70	515
Group	BT	1.61	2.00	0.79	0.15	-4.594 ^b	0.0000044	84.44	Sig
В	AT	0.25	0.00	0.52	0.10	1	0.0000011	01.11	515

Since observations are on ordinal scale (gradations), we have used Wilcoxon Signed Rank Test to test efficacy in Group A and Group B. From above table, we can observe that, P-Value for Group A and Group B is less than 0.05. Hence, we can conclude that, effect observed in Group A and Group B is significant.

Table -Difference in statical value of Aswedanam within group on day 1,15,30,45

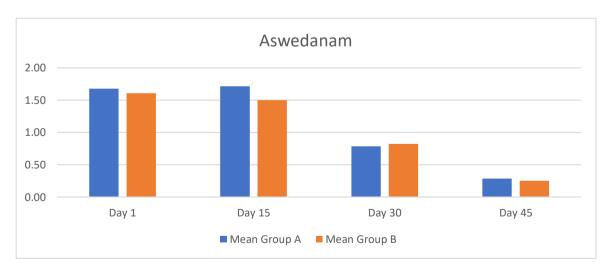
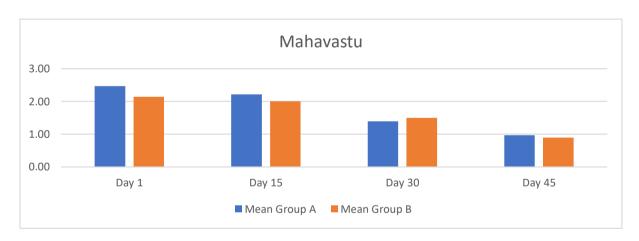


Table -Difference in statical value of Mahavastu within group on day 1,15,30,45

	Mean		SD		% Change		
Mahavastu	Group	Group	Group	Group	Group	Group B	
	A	В	A	В	A	Group B	
Day 1	2.46	2.14	0.58	0.65	-	-	
Day 15	2.21	2.00	0.57	0.67	10.14	6.67	
Day 30	1.39	1.50	0.50	0.69	43.48	30.00	
Day 45	0.96	0.89	0.51	0.42	60.87	58.33	
Friedman' Test	24.180	26.146					
P-Value	0.000	0.000					
Result	Sig	Sig					

Since observations are on ordinal scale assessed at different follow up. Friedman's test is carried out to test significance in Group A and Group B. From above table, we can observe that, P-Value for Group A and Group B is less than 0.05. Hence, we can conclude that, effect observed in Group A and Group B is significant.



Matsya Shaklopam

Matsya Shaklopam		Mean	Median	SD	SE	Wilcoxon W	P-Value	% Effect	Result
Group A	BT	2.32	2.00	0.55	0.10	-4.748 ^b	0.0000021	76.92	Sig
Group 11	AT	0.54	0.50	0.58	0.11	1.710	0.0000021	70.72	
Group B	BT	2.32	2.00	0.72	0.14	-4.604 ^b	0.0000041	63.08	Sig
Group B	AT	0.86	1.00	0.65	0.12	1.001	0.0000011	03.00	

Since observations are on ordinal scale (gradations), we have used Wilcoxon Signed Rank Test to test efficacy in Group A and Group B. From above table, we can observe that, P-Value for Group A and Group B is less than 0.05. Hence, we can conclude that, effect observed in Group A and Group B is significant.

Within group-we can observe that the P value in group 'A' and group 'B' is less than 0.05 hence the effect observed in 'A' and 'B' group is statistically significant.



Krushna arunvarna-

Table -Difference in statical value of Krushna arunvarna before and after treatment-

Krushna- Arunavarna		Mean	Median	SD	SE	Wilcoxon W	P-Value	% Effect	Result
Group A	BT AT	1.96 0.43	2.00	0.69 0.57	0.13	-4.552 ^b	0.0000053	78.18	Sig
Group B	BT	1.86	2.00	0.76	0.14	-4.584 ^b	0.0000046	80.77	Sig
Croup B	AT	0.36	0.00	0.49	0.09		0.0000010	00.77	515

Since observations are on ordinal scale (gradations), we have used Wilcoxon Signed Rank Test to test efficacy in Group A and Group B. From above table, we can observe that, P-Value for Group A and Group B is less than 0.05. Hence, we can conclude that, effect observed in Group A and Group B is significant.

Within group-we can observed that the P value in 'A' group and 'B' group is less than 0.05 hence the effect observed in group 'A' and Group 'B' is statistically significant.

Betewwn the group – we observed that the mean of group 'A'

Day 1 mean -1.96, Day 45-

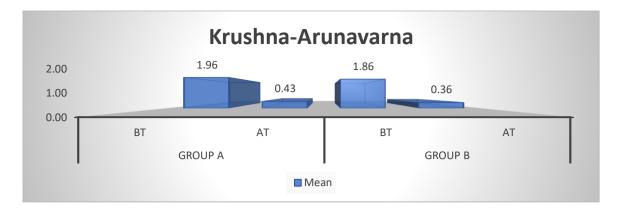
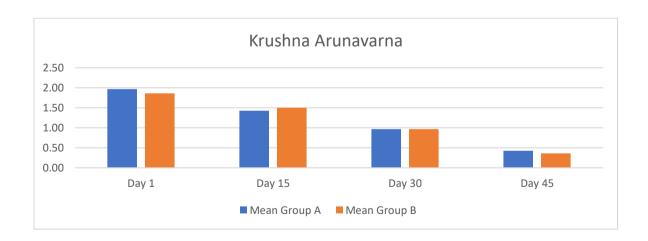


Table -Difference in statical value of Krushnaarun varna within group on day 1,15,30,45

	Mean		SD		% Chang	% Change		
Krushna-Arunvarna	Group	Group	Group	Group	Group	Group B		
	A	В	A	В	A	Group B		
Day 1	1.96	1.86	0.69	0.76	-	-		
Day 15	1.43	1.50	0.63	0.75	27.27	19.23		
Day 30	0.96	0.96	0.58	0.74	50.91	48.08		
Day 45	0.43	0.36	0.57	0.49	78.18	80.77		
Friedman' Test	23.512	22.299						
P-Value	0.000	0.000						
Result	Sig	Sig						

Since observations are on ordinal scale assessed at different follow up. Friedman's test is carried out to test significance in Group A and Group B. From above table, we can observe that, P-Value for Group A and Group B is less than 0.05. Hence, we can conclude that, effect observed in Group A and Group B is significant.



• Variable	Group	N	Mean Rank	Sum of Ranks	Mann- Whitney U	P-Value
Aswedanam	Group A Group B Total	28 28 56	28.95 28.05	810.50 785.50	379.500	0.820
Mahavastu	Group A Group B Total	28 28 56	30.84 26.16	863.50 732.50	326.500	0.233
Matsya Shaklopam	Group A Group B Total	28 28 56	31.63 25.38	885.50 710.50	304.500	0.106
Krushna- Arunvarna	Group A Group B Total	28 28 56	28.59	800.50 795.50	389.500	0.964

Mann Whitney U-test is carried out for comparison between Group A and Group B. From above table, we can observe that, P-Value is greater than 0.05. Hence, we can conclude that, there is no significant difference between Group A and Group B

Table -Difference in statical value of PASI SCORE within group on before and after -

PASI S	core	Mean	N	SD	SE	t-Value	P-Value	% Change	Result
Group	BT	21.50	28	13.55	2.56	7.750	0.00000	82.24	Sig
A	AT	3.82	28	4.36	0.82	7.730	0.00000	02.24	DIG
Group	BT	17.13	28	17.37	3.28	4.587	0.00009	73.21	Sig
В	AT	4.59	28	4.37	0.83	1.507	0.0000	73.21	515

Since observations are quantitative, we have used Paired t-Test to test efficacy in Group A and Group B. From above table, we can observe that, P-Value for Group A and Group B is less than 0.05. Hence, we can conclude that, effect observed in Group A and Group B is significant.

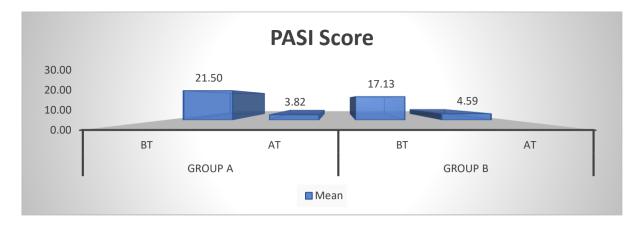


Table -Difference in statical value of ESR within group on Before and after-

ESR		Mean	N	SD	SE	t-Value	P- Value	% Change	Result
	BT	25.69	28	19.02	3.59		0.00036	37.09	
Group A	AT	16.16	28	14.89	2.81	4.083			Sig
Group B	BT	25.08	28	27.38	5.17	3.581	0.00132	37.23	C: ~
Group B	AT	15.74	28	21.93	4.14	3.301	0.00132	31.23	Sig

Since observations are quantitative, we have used Paired t-Test to test efficacy in Group A and Group B. From above table, we can observe that, P-Value for Group A and Group B is less than 0.05. Hence, we can conclude that, effect observed in Group A and Group B is significant.

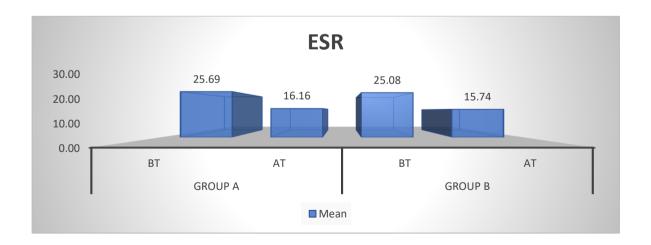
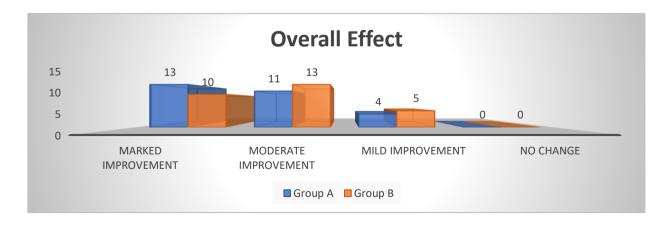


Table -Difference in statical value of PASI score and ESR within groups-

Variable	Group	N	Mean	SD	SE	t-Value	P- Value	
PASI Score	Group A	28	17.68	12.07	2.28	1.443	0.155	
This bear	Group B	28	12.54	14.47	2.73	1.115	0.100	
ESR	Group A	28	9.53	12.35	2.33	0.054	0.957	
	Group B	28	9.34	13.80	2.61	0.051	0.557	

Unpaired t-test is carried out for comparison between Group A and Group B. From above table, we can observe that, P-Value is greater than 0.05. Hence, we can conclude that, there is no significant difference between Group A and Group B.

Overall Effect	Grou	рА	Grou	р В
Overall Effect	N	%	N	%
Marked Improvement	13	46.43%	10	35.71%
Moderate Improvement	11	39.29%	13	46.43%
Mild Improvement	4	14.29%	5	17.86%
No Change	0	0.00%	0	0.00%
TOTAL	28	100.00%	28	100.00%



➤ Result of group A (*Darvyadi kwath*): significant results were found in group A. All over 73.69% improvement was appear after treatment. The clinical features of '*Ekakushtha*'(~plaque psosriasis) like; *Awedanam* (loss of sweating) relieved by 70.5%, *Mahavastu* (effected area) relieved by 57.4%, *Matsyashaklopam* (scaling) relieved by 81.2% and 64% improvement in *Krishna-aruna varna* (black-reddishdiscoloration).

- ➤ **Result of group B** (*Triphala kwath*): Significant results were found in group B. All over 42.08% improvement was appear after treatment. The clinical features of *Ekakushtha* like; *Aswedanam* (loss of sweating) relieved by 53%, *Mahavastu*(effected area) relieved by 43.47%, *Matsyashaklopam* (scaling) relieved by 66.30% and 58% improvement in *Krishna-aruna varna* (black-reddish discoloration).
- ➤ Inter group comparison: There are statistically highly significant difference present in efficacy of 'Darvyadi kwath' and 'Triphala kwath' in management of Ekakushtha (~plaque psoriasis). according to Psoriasis Area Severity Index (PASI) Score.

Group B ('Triphala kwath').

• After stopping the administration of the drugs under trial follow up after 45 days, the symptoms of plaque psoriasis recurrent in 10% patients. B patients have shown more recurrency as compare as group A patients.

Discussion⁹⁻¹³-

- Ekakushtha is stated to be tridoshaja kshudra-kushtha with dominance of kapha-vata dosha.
- On the clinical manifestation it seems to be equivalent clinical entity plaquepsoriasis described in modern and classical literature.
- In present clinical study, I found all symptoms of *Ekakushtha* according to Ayurvedic texts.
- 1. Aswedana (~loss of sweating): Vata causing Sankocha (~vasoconstrictor) and Kapha causing Sanga (~obstruction), resulting in Asvedanam.
- 2. *Mahavastu* (~large area): *Sighrakari guna* (quickly spreading property) of *vata(Dosha)* and *Rakta (Dushya)* is responsible for *mahavastu* (effected large area).
- 3. *Matshyashakalopama* (~papules or plaques cover with scales): it's the result of apid proliferation of skin cells. The rate of cell division is a function of *vata*.
- 4. Mahavastu (~large area): Sighrakari guna (quickly spreading property) of vata(Dosha) and Rakta (Dushya) is responsible for mahavastu (effected large area).
- 5. Krushna-arun varna (~red-blackish discoloration): due to aggravated vata dosha.

Mode of action of drug on patients 14,15,16 -

Darvyadi kwath and its ingredients of (Daruharidra,Nimba ,khadir)-Daruhaldi is katu tikta remove twak dosa pacifies kapha is raktashodhaka(antiscorbutic) shothahar(antiinflamatory) kadughana(~antimicrobial),it is use for treating inflammation and skin diseases is well documented. Khadir is considered as the best promising drug for all type of skin disease.its shothahar(anti-inflammotory) kandughana(antipruritic),kushthagna(~allevaites skin disease)Sthambhan(~astringent),rasayan,(~rejuvenating)properties remission.Neem is also known as Tiktaka due to tikta properties.it is said to pacify

Tridoshamak,kanduhar(~antipruritc),kushthagna,krimighana(~antimicrobial)neempossesses antiinflamatory,anti-histamine and anti-microbial properties .the three components of Triphala kwath are
Haraitaki,bibithaki,amalaka. Out of these two drug are Kashaya(~astringent) In taste and one has amla dominant
rasa (amla -pitta shamaka) all three drug are ushna virya(hot potency)and madhur vipak (~post diagestive
effect),activity so both medicines are effective in management of Ekakushtha.tikta rasa (~bitter taste)has
shodhan(~purifucation) property. Kashaya rasa(~astringent taste) has the property of shaman(~pacifying
action)and ropan(~healing). Tikta, Madhur, sheeta and Kashaya properties help balance rakta one of four major
tissue involved in kushta . Madhur, ushna properties pacify vata ,tikta Kashaya rasa predominant
kushthanghna(~curative for obstinate skin disease)drugs are mainstay of treatment of kushta shaman therapy.

In the present study, it was observed that psoriasis can occur at any age but its peak manifestation occurs during age of 51-60 years, and the second peak occurs in persons aged 21-30 years due to more stressful and dietary disturbances. It's more common in men than women. *Ekakushtha* is mostly occurring in *vata-kaphaj prakriti* parsons compared to other *prakritis*. It's more common in low economic class due to unawareness of hygiene. This disease increases in winter due to dominance of *Kapha* and *Vata*. Climate also appears to affect psoriasis prevalence, with higher rates recorded in single countries at greater latitudes from the Equator due to winter season in longer time.

Etiological factor on the basis of observation, Stress and genetic factors has a leading role in developing *Ekakushtha* which was observed in maximum number of patients. If human consumes milk, curd, jaggery excessive amount in diet for longer period they enhance the severity of this disease.

Conclusion-

Both medicines are effective in the management of *Ekakushtha* but group A (*Darvyadi kwath*) provided better improvement than group B (*Triphala kwath*). Group B patients have shown more recurrency as compare as group A patients.

- On the clinical manifestation it seems to be equivalent clinical entity plaque psoriasis described in modern and classical literature.
- In present clinical study, I found all symptoms of *Ekakushtha Darvyadi kwath* and its ingredients of (*Daruharidra*, *Nimba*, *khadir*)-*Daruhaldi* is *katu tikta* remove *twak dosa* pacifies *kapha* is *raktashodhak*a (antiscorbutic) *shothahar* (antiinflamatory) *kadughana* (~antimicrobial), it is use for treating inflammation and skin diseases is well documented. *Khadir* is considered as the best promising drug for all type of skin disease.its *shothahar* (anti-inflammotory)

kandughana(antipruritic), kushthagna (~allevaites

skin disease)

Sthambhan(~astringent), rasayan, (~rejuvenating) properties remission. Neem is also known as Tiktaka due to tikta properties.it is said to pacify Tridoshamak, kanduhar (~antiprurite), kushthagna, krimighana(~antimicrobial) Neem possesses anti-inflamatory, anti-histamine and anti-microbial properties. the three components of Triphala kwath are Haraitaki, Bibithaki, Amalaka. Out of these two drugs are Kashaya(~astringent) In taste and one has

amla dominant rasa (amla -pitta shamaka) all three drug are ushna Virya (hot potency) andmadhur vipak (~post diagestive effect), activity so both medicines are effective in management of Ekakushtha.tikta rasa (~bitter taste) has shodhan(~purifucation) property. Kashaya rasa (~astringent taste) has the property of shaman (~pacifying action) and ropan(~healing). Tikta, Madhur, sheeta and Kashaya properties help balance rakta one of four manjor tissue involved in kushta. Madhur, ushna properties pacify vata, tikta Kashaya rasa predominant kushthanghna (~curative for obstinate skin disease) drugs are mainstay of treatment of kushta shaman therapy.

- **Result of group A** (*Darvyadi kwath*): significant results were found in group A. All over 73.69% improvement was appear after treatment. The clinical features of '*Ekakushtha*' (~plaque psosriasis) like; *Awedanam* (loss of sweating) relieved by 70.5%, *Mahavastu* (effected area) relieved by 57.4%, *Matsyashaklopam* (scaling) relieved by
- 81.2% and 64% improvement in Krishna-aruna varna (black-reddish discoloration).
- **Result of group B** (*Triphala kwath*): Significant results were found in group B. All over 42.08% improvement was appear after treatment. The clinical features of *Ekakushtha* like; *Aswedanam* (loss of sweating) relieved by 53%, *Mahavastu* (effected area) relieved by 43.47%, *Matsyashaklopam* (scaling) relieved by 66.30% and 58% improvement in *Krishna-aruna varna* (black-reddish discoloration).
- Inter group comparison: There are statistically highly significant difference present in efficacy of '*Darvyadi kwath*' and '*Triphala kwath*' in management of *Ekakushtha* (~plaque psoriasis). according to Psoriasis Area Severity Index (PASI) Score. than Group B ('*Triphala kwath*').
- After stopping the administration of the drugs under trial follow up after 45 days, the symptoms of plaque psoriasis recurrent in10% patients. B patients have shown more recurrency as compare as group A patients. Kustha is described as one of the most chronic diseases in Ayurvedic literature. Under the roof of Kustha, Ayurveda described a wide range of dermatological disorders including its classification, etiopathogenesis, clinical presentation, prevention and management. The disease courses and the treatment modalities mentioned for dermatological disorders as described in Ayurveda are highlighted here with their modern counterparts and the measures mentioned in classics are focused in this study which provides management in natural way with no adverse effects. Ekkustha (Psoriasis) is the skin disease which is more difficult to cure even in modern science. This study showed that Ayurveda medicine has hope for such cases. Two assessments criteria have been taken in this clinical trial; PASI, *Ekakushtha* severity score with the help of these assessments, I find out that-There is no significant difference present in efficacy 'Darvyadi kwath' in d' Triphala kwath' in management of Ekakushtha (~plaque psoriasis)-Both medicines are effective in the management of Ekakushtha (~plaque psoriasis) both medicines are effective in the management of Ekakushtha in management Ekakushtha

(~plaque psoriasis). Both medicines are effective in the management of Ekakushtha but group A (Darvyadi kwath)

provided better improvement than group B (*Triphala kwath*). Group B patients have shown more recurrency as compare as group A patients.

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