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**Research Article** 

# EVALUATION OF THE EFFECT OF *PALASHADI VARTI* IN THE MANAGEMENT OF *SHWETA PRADARA* (ABNORMAL VAGINAL DISCHARGE)

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SHDHA

#### Article info

#### ABSTRACT

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#### **KEYWORDS:**

Abnormal Vaginal Discharge, *Shweta Pradara, Palashadi Varti,* Herbal.

Abnormal Vaginal Discharge can be correlated to Shweta Pradara is detailed in texts like Sharagdhar Samhita, Bhavprakash, and Yogratnakar. Commentator Chakrapani has explained the word Pandura-Asrigdara as Shwetapradar in his commentary on Charak Samhita. This condition often signals underlying genital tract pathologies and may present as thick, viscid, and foul-smelling discharge, particularly when caused by infections. Common pathogens include Gardnerella, Chlamydia, Trichomonas, and Candida albicans. AIM & OBJECTIVES: To assess the effect of the trial drug Palashadi Varti in the Management of Shwetapradar and to evaluate the comparative efficacy of the trial drug with modern drug. MATERIAL & METHODS: With Ethical Committee approval and informed consent, 210 patients were randomly assigned to two groups. In one group, Palashadi Varti at night was given for 7 days. From baseline to 7<sup>th</sup> day based on assessment criteria per-speculum examination was done. A comparison of categorical variables was done using an appropriate statistical test. **RESULTS**: Palashadi Varti potentially had comparable effects to the conventional treatment but the recurrence rate was found more in conventional treatment. CONCLUSION: Palashadi Varti is an effective, side effects-free, patient-complaint herbal alternative for the management of abnormal vaginal discharge.

#### **INTRODUCTION**

A woman's health is vital, as she undergoes numerous physiological changes throughout her life, from menarche to menopause, driven by hormonal fluctuations. Vaginal secretions, which begin around puberty, are often physiological and signify a healthy reproductive system. However, abnormal vaginal discharge, a common concern, can hinder women's well-being and freedom. It manifests as excessive or unusual discharge differing in color, odor, or consistency and may result from infections or hormonal imbalances. Vaginal discharge is a natural occurrence that most women experience at some point in their lives.

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It typically varies in amount, consistency, and duration depending on the menstrual cycle. While physiological vaginal discharge is usually not a cause for concern, pathological discharge caused by infections like Candida, Trichomonas, and bacterial infections (both gram-negative and gram-positive) may require medical attention<sup>[1]</sup>. Non-infective factors, such as genital tract tumors, fistulas, chemical irritants (like perfumed soaps and bath additives), spermicides, antiseptic douches, or foreign bodies in the vagina, can also result in abnormal discharge. In Ayurvedic texts, vaginal discharge is often associated with various gynecological disorders. These include severe genital tract infections (Sannipatki Yonivyapad), monilial vulvovaginitis, particularly in pregnant women (Upapluta Yonivyapad), and prolapse-related conditions (Prasramsinee Yonivyapad, Phalinee *Yonivyapad*)<sup>[2]</sup>. These conditions can manifest with vaginal discharge, which may occur alongside other symptoms. However, not all of these symptoms are necessary for a diagnosis of Shweta Pradara

(Abnormal Vaginal discharge), as this condition is considered a symptom rather than a disease. Shweta Pradara is believed to primarily involve the Vata and Kapha Doshas, although the role of Pitta should not be overlooked, particularly concerning the process of Paka (digestion and maturation). In Ayurvedic terminology, Shweta Pradara can be categorized as a *Vata Kapha Pradhana Tridoshaja Vyadhi*<sup>[3]</sup>, a condition involving all three *Doshas*, with *Vata* and *Kapha* being the dominant Doshas. This disturbance in the body's normal balance is often linked to Dosha vitiation, which is referred to as Ama (toxins) or Agnidushti (digestive fire dysfunction) in Ayurveda. This study specifically focuses on Shweta Pradara, as it is one of most common symptoms observed the in gynecological outpatient settings. While Shweta Pradara is not a disease on its own, it is a significant indicator of underlying conditions, making it important to understand its causes for effective treatment. Ayurveda offers a range of therapeutic approaches, including treatments such as Yoni Prakshalana, Yoni Avachurnana, Yoni Pichu, and Yoni Varti, which are commonly recommended in the management of this condition. This clinical trial evaluates the efficacy of Avurvedic treatment-Palshadi Varti in managing Shweta Pradara. Though references to Shweta Pradara are not directly described in the *Brihatravee* (the three primary Ayurvedic texts), some scholars have mentioned similar conditions, such as pale vaginal discharge (Pandur Asrigdara). The term "Shweta Pradara" was first used by Acharya Vrinda Madhava in the 9th century A.D., though earlier references can be found through the study of related symptoms. In modern medical terms, conditions such as chronic infections, tuberculosis, senile vaginitis, trichomonas vaginitis, and monilial vulvovaginitis may present with symptoms similar to those of Shweta Pradara. Shweta Pradara can result from various underlying causes, including a combination of Kapha and Vata Doshas. It is essential to recognize that not all symptoms need to be present for a proper diagnosis of Shweta Pradara. Identifying the root cause allows for more targeted and effective treatment. This clinical trial aims to further the understanding of Avurvedic treatments for Shweta Pradara, particularly through the use of Palashadi *Varti*, to provide effective solutions for those suffering from this common symptom.

# MATERIAL & METHODS

# Study Design

Open Monocentric Clinical Study.

# **Place of Study**

Study conducted at RGGPG Govt. Post Graduate Ayurvedic College and Hospital Paprola Distt. Kangra HP.

# Sample size & Study intervention

210 patients fulfilling inclusion criteria were randomly selected from OPD/IPD of PTSR Dept. of R.G.G.P.G. Ay. Hospital, Paprola for the clinical study and divided into two groups of 105 each: -

- 1. Group I (Study Group) *Palashadi Varti*<sup>4</sup> (Vaginal Pessary)
- 2. Group II (Control Group) Clindamycin (100mg) + Clotrimazole (200mg) Vaginal Suppository

Duration of trial was7 days

The study received approval from the IEC (No. Ayu/ IEC/2022/1351) and was registered with CTRI (No. CTRI/2023/05/052519). The drug was tested, and the analysis report (No. DTL/PP/15/22-102) was obtained. Informed consent was taken from patients after explaining the trial details. Patients who met the inclusion criteria were registered, and necessary investigations were performed before starting the Ayurvedic treatment. Patients were followed up with the first follow-up after trial completion and the second follow-up one month after the drug-free period.

# Inclusion & Exclusion criteria

The inclusion criteria for the study were: patients who provided informed consent and were willing to participate, married or sexually active females, those experiencing *Shweta Pradar* (abnormal vaginal discharge) as a primary symptom, and women between 20 to 45 years of reproductive age. The exclusion criteria included unmarried women, pregnant or lactating women, postmenopausal women, individuals with gynecological conditions such as cervical cancer, fibroids, or polyps, HIV-positive patients, diabetics, and patients with severe anemia (Hb  $\leq$  7).

# Assessment Criteria

The patients treated in both Groups were assessed by the presence or absence of signs and symptoms before and after treatment, and symptomatic relief obtained by the treatment given was assessed.

# Subjective

<i>Yoni Srava</i> (Amount of vaginal discharge)	Grade
Normal moistening	0
Moderate (Feeling of wetness on undergarments but does not require change in 24 hours)	1
Profuse (require changing of undergarments within 24 hours)	2
Yoni Dorgandhya (Offensiveness)	Grade
Absent	0
Present	1
Gramyedharama Ruja (Dyspareunia)	Grade
Absent	0
Pain on superficial penetration	1
Pain on deep penetration	2
Patient tries to avoid Marital relation due to pain during coitus	3
Yonikandu (Itching vulvae)	Grade
Absent	0
Occasional	1
Mild feeling of irritability	2
Constant intolerable itching and excoriation	3
Maithunottraraktsrava (Post coital bleeding)	Grade
Absent	0
Spotting	1
Mild	2
Moderate	3

# 2. Gradation on Associated symptoms

Katishula (Backache)	Grade
No pain	0
Pain increase on exertion, relieved by rest	1
Pain increase on exertion, not relieved by rest	2
Severe pain interference in routine activities and no relief after medicine	3
Artava Chakra (Menstrual cycle)	Grade
Regular cycle	0
Irregular cycle with scanty to moderate bleeding	1
Irregular cycle with heavy bleeding	2
<i>Udarshula</i> (Pain in lower abdomen)	Grade
Absent	0
Mild pain throughout day but relieved by rest	1
Moderate pain interfering physical activity and not relieved by rest	2
Pain interfering physical activity and need to take analgesic	3

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<i>Mutradaha</i> (Burning micturition)	Grade
Absent	0
Mild burning	1
Moderate troublesome burning	2
Severe troublesome burning	3
3. Gradation on Per speculum examination	
Yonisrava Samhana (Consistency of vaginal discharge)	Grade
Jalabha (Watery discharge)	0
Pichhila (Mucoid)	1
Singdha (Creamy)	2
Dadhivata (Curdy)	3
Yonisaravvarana (Colour of discharge)	Grade
Shetabha (Whitish)	0
Peetabha (Yellowish)	1
Haritabha (Greenish)	2
Raktabha (Brownish /Blood stained)	3
Size of cervix	Grade
Normal	0
Nulliparous size/ atrophic size	1
Hypertrophy	2
Garbhashyagrivamukha Raktabhta (Congestion of cervix)	Grade
Absent	0
Mild	1
Moderate	2
Severe	3
Garbhashyagriva Mukhagatavrana (Cervical Erosion)	Grade
No erosion	0
At upper lip/lower lip	1
Around os	2
Whole cervix (portio-vaginlis)	3

# **Objective Criteria**

Vaginal discharge pH	Grad	de
3.5-4.5	0	
4.5-5.5	1	
5.5-6.5	2	
6.5-7.5	3	

# Gradation on Wet vaginal smear

0-5 / hpf	0
6-25/ hpf	1
26-50 /hpf	2

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50- 100 /hpf	3
>100 /hpf	4
Based Epithelial cell	Grade
0-5 / hpf	0
6-25/ hpf	1
26-50 /hpf	2
50- 100 /hpf	3
>100 /hpf	4

# Based on micro-organisms in discharge

Trichomonas vagi	nalis
Absent	
Present	

Candida albicans	
Absent	
Present	
Other Organisms	

# **Statistical Analysis Method**

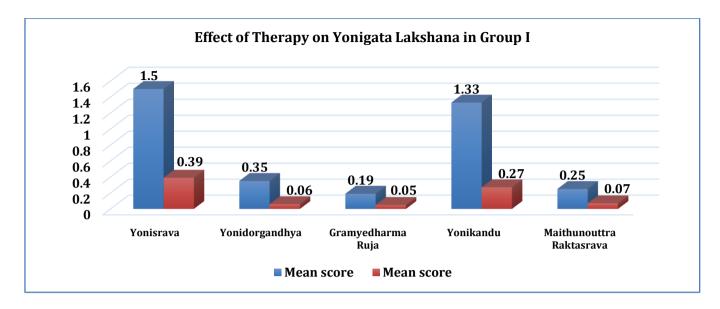
The collected data were analyzed using statistical methods and presented as median, mean, standard deviation ( $\pm$ SD), and standard error ( $\pm$ SE). The Wilcoxon signed-rank test was applied for intragroup comparisons, while the Mann-Whitney U test was used for intergroup comparisons to assess the significance of the results following treatment.

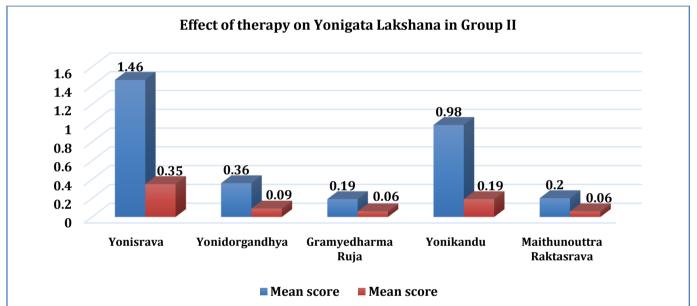
# **Observations & Results**

Out of 210 participants enrolled in the study, 200 successfully completed it. Statistical analysis using appropriate tests for each criterion revealed that both the study drug and the conventional drug produced highly significant improvements in *Yonigata* symptoms. However, intergroup comparisons showed no significant differences. Similarly, associated symptoms, per speculum examination findings, and objective assessments also indicated no notable differences in the efficacy of the two drugs. Overall, the study found no significant variation in the action of the drugs.

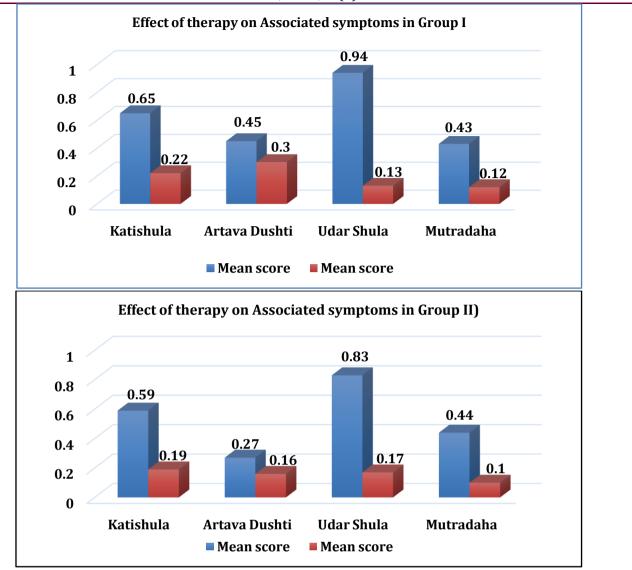
Sumatom	Mean score		Mean	% age	SD ±	S.E.	W Value	р	Result
Symptom	B.T.	A.T.	Diff	Relief	3D I	<b>J.E.</b>	w value	value	Result
Yonisrava (Group I)	1.5	0.39	1.11	74%	0.617	0.0618	-3828	< 0.001	H.S.
Yonisrava (Group II)	1.46	0.35	1.11	76.02	0.694	0.069	-4074	< 0.001	H.S.
Yonidorgandhya (Group I)	0.35	0.06	0.29	82.85	0.477	0.0478	-464	< 0.001	H.S.
Yonidorgandhya (Group II)	0.36	0.09	0.27	75	0.489	0.048	-432	< 0.001	H.S.
Gramyedharma Ruja (Group I)	0.19	0.05	0.14	73.68	0.449	0.045	-105	0.004	S
Gramyedharma Ruja (Group II)	0.19	0.06	0.13	68.4	0.463	0.046	-79	0.011	S
Yonikandu (Group I)	1.33	0.27	1.06	79.69	0.885	0.886	-3089	< 0.001	H.S.
Yonikandu (Group II)	0.98	0.19	0.79	80.6	0.769	0.076	-1968	< 0.001	H.S.
Maithunouttra Raktasrava (Group I)	0.25	0.07	0.18	72	0.479	0.047	-207	<0.001	H.S.
Maithunouttra Raktasrava (Group II)	0.2	0.06	0.14	70	0.376	0.037	-119	0.033	S

Effect of therapy on *Yonigata Lakshana* in Group I and Group II



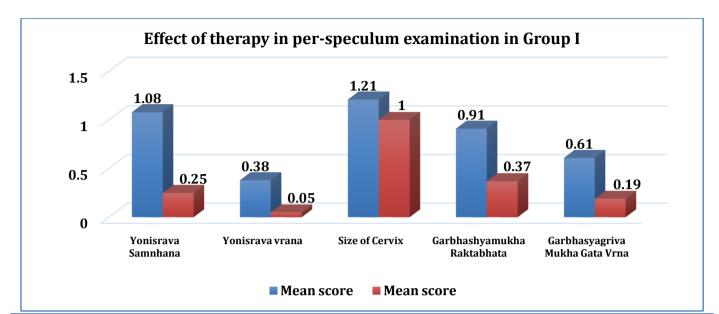


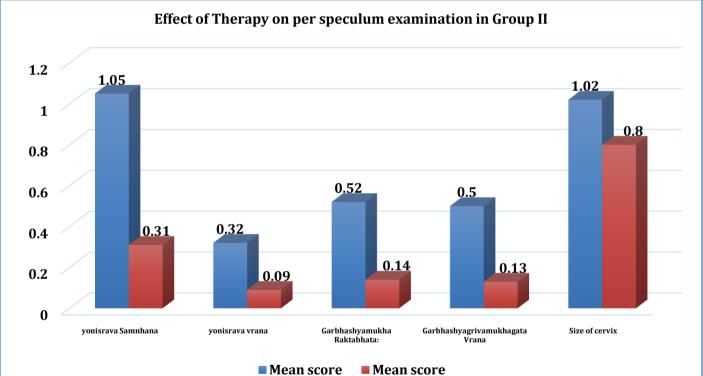
Effect of therapy on Associated Symptoms in Group I and Group II									
Symptom	Mean	score	Mean	%age	SD ±	S.E.	W	р	Result
	B.T.	A.T.	Diff	Relief			Value	value	
Katishula (Group I)	0.65	0.22	0.43	66.15	0.670	0.067	-860	< 0.001	H.S.
Katishula (Group II)	0.59	0.19	0.4	67.7	0.550	0.055	-703	< 0.001	H.S.
ArtavaDushti (Group I)	0.45	0.3	0.15	33.33	0.479	0.047	-136	0.06	I.S.
ArtavaDushti (Group II)	0.27	0.16	0.11	40.7	0.345	0.034	-77	0.07	I.S.
Udar Shula (Group I)	0.94	0.13	0.81	86.17	0.544	0.054	-3405	< 0.001	H.S.
Udar Shula (Group II)	0.83	0.17	0.66	79.6	0.713	0.071	-1728	< 0.001	H.S.
Mutradaha (Group I)	0.43	0.12	0.31	72.09	0.580	0.058	-382	< 0.001	H.S.
Mutradaha (Group II)	0.44	0.1	0.34	77.2	0.554	0.055	-465	< 0.001	H.S.



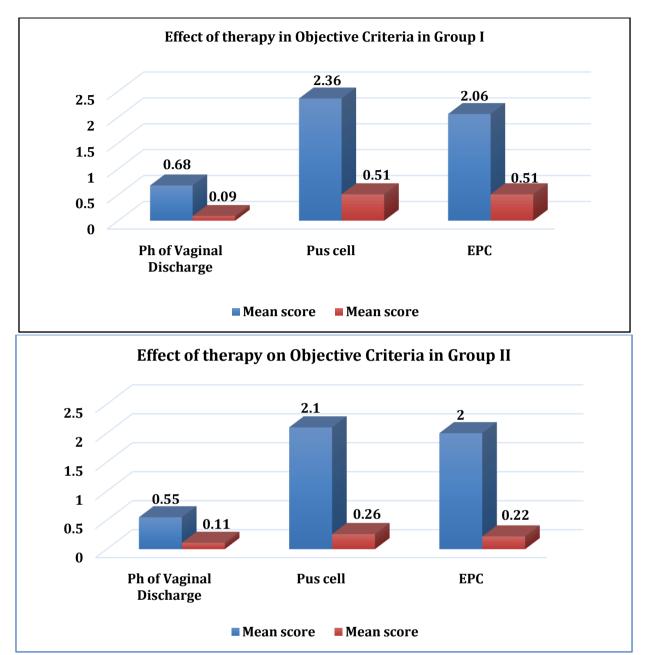
Effect of therapy in Per Sp	aculum Evamination in	Group I and Group II
Enect of therapy in rel sp	culum Lammation m	uroup rand uroup n

Sumntom	Mean score		Mea	%age		C F	W	р	Res
Symptom	B.T.	A.T.	n Diff	Relie f	SD ±	S.E.	Value	value	ult
Yonisrava Samnhana (Group I)	1.08	0.25	0.83	76.85	0.546	0.054	-1998	< 0.001	H.S.
Yonisrava Samnhana (Group II)	1.05	0.31	0.74	70.4	0.883	0.088	-1322	< 0.001	H.S.
Yonisrava Varna (Group I)	0.38	0.05	0.33	86.84	0.532	0.053	-529	< 0.001	H.S.
Yonisrava Varna (Group II)	0.32	0.09	0.23	71.8	0.489	0.048	-210	< 0.001	H.S.
Size of Cervix (Group I)	1.21	1	0.21	17.3	0.820	0.082	-175	0.022	I.S.
Size of Cervix (Group II)	1.02	0.8	0.22	21.5	0.785	0.078	-167	0.003	S
Garbhashyamukha Raktabhata (Group I)	0.91	0.37	0.54	59.34	0.892	0.089	-1195	<0.001	H.S.
Garbhashyamukha Raktabhata (Group II)	0.52	0.14	0.38	73	0.749	0.074	-486	<0.001	H.S.
Garbhasyagriva Mukha GataVrna (Group I)	0.61	0.19	0.42	68.85	0.793	0.079	-603	<0.001	H.S.
Garbhasyagriva Mukha Gata Vrna (Group II)	0.5	0.13	0.37	74	0.719	0.071	-351	<0.001	H.S.



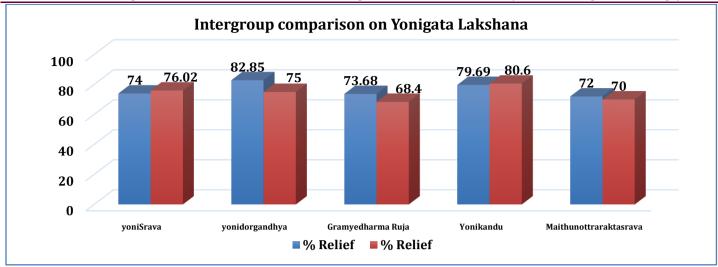


Symptom	Mean	score	Mean	%age	SD ±	S.E.	W	р	Result
Symptom	B.T.	A.T.	Diff	Relief	3D I	J.E.	Value	value	Result
pH of Vaginal Discharge (Group I)	0.68	0.09	0.59	86.76	0.712	0.071	-1839	< 0.001	H.S.
pH of Vaginal Discharge (Group II)	0.55	0.11	0.44	80	0.574	0.057	-991	< 0.001	H.S.
Pus cell (Group I)	2.36	0.51	1.85	78.38	1.479	0.148	-3634	< 0.001	H.S.
Pus cell (Group II)	2.1	0.26	1.84	87.61	1.522	0.152	-3403	< 0.001	H.S.
EPC (Group I)	2.06	0.51	1.55	75.24	0.8	0.08	-2989	< 0.001	H.S.
EPC (Group II)	2	0.22	1.78	89	0.6	0.06	-948	< 0.001	H.S.



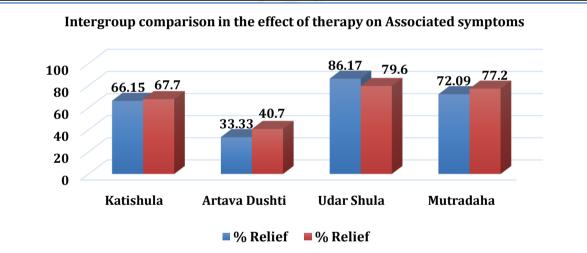
# Intergroup Comparison of the effect of therapy on the Yonigata Lakshana

Symptom		% Relie	f	Mann Whitney	p value	Result
	Group I	Group II	Diff. in % age	Test 'U'		
Yonisrava	74	76.02	-2.02	9879	0.678	I.S.
Yonidorgandhya	82.85	75	7.85	10134	0.837	I.S.
Gramyedharma Ruja	73.68	68.4	5.28	10140	0.826	I.S.
Yonikandu	79.69	80.6	-0.91	11114	0.009	S
Maithunottraraktasrava	72	70	2	10220	0.678	I.S.



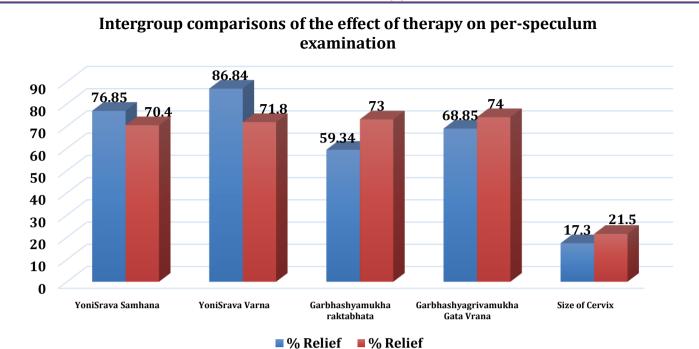
#### Intergroup comparison in the effect of therapy on Associated Symptoms

Symptom	% Relief			Mann Whitney	p value	Result
	Group I	Group II	Diff. in % age	test 'U'		
Katishula	66.15	67.7	-1.55	10279	0.576	I.S.
ArtavaDushti	33.33	40.7	-7.37	10172	0.766	I.S.
Udar Shula	86.17	79.6	6.57	10816	0.05	S
Mutradaha	72.09	77.2	-5.11	9886	0.689	I.S.



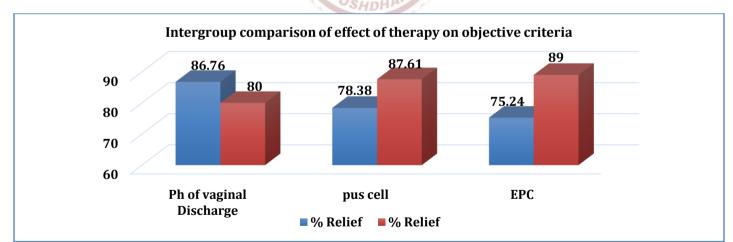
# Intergroup Comparison of the effect of therapy on Per-Speculum Examination

Per speculum examinations	% Relief		Mann Whitney	p value	Result	
	Group I	Group II	Diff. in % age	test 'U'		
YoniSravaSamhana	76.85	70.4	6.45	10459	0.317	I.S.
YoniSrava Varna	86.84	71.8	15.04	10582	< 0.001	H.S.
Garbhashyamukha <i>Raktabhata</i>	59.34	73	-13.66	10846	0.05	S
Garbhashyagriva Mukha Gata Vrana	68.85	74	-5.15	10315	0.517	I.S.
Size of Cervix	17.3	21.5	-4.2	10022	0.946	I.S.



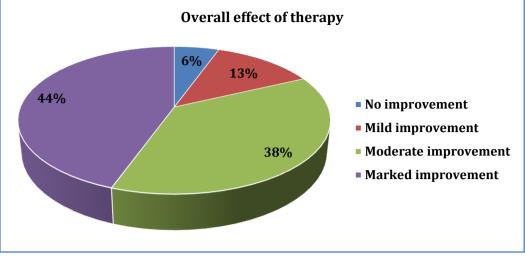
# Intergroup Comparison of Effect of Therapy on Objective Criteria

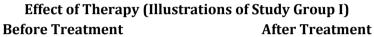
Symptom		% Relie	ef	Mann Whitney	p value	Result		
	Group I	Group II	Diff. in % age	Test 'U'				
pH of vaginal Discharge	86.76	80	6.76	10819	0.06	I.S.		
Wet Smear								
Pus cell	78.38	87.61	-9.23	10117	0.871	I.S.		
EPC	75.24	89	-13.76	10172	0.628	I.S.		
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# **Overall Effect of Therapy in Both Groups**

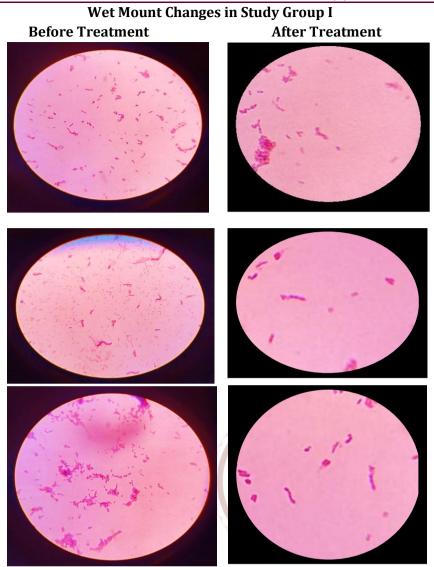
% Relief	Group I	Group I % age	Group II	Group II % age	Total	total % age
No improvement	5	5	6	6	11	5.5
Mild improvement	11	11	14	14	25	12.5
Moderate improvement	41	41	34	34	75	37.5
Marked improvement	43	43	46	46	89	44.5
	100	100	100	100	200	100







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#### Adverse Effects Analysis

No significant local adverse effects were reported by any participants in either group during the study. Additionally, safety-related laboratory parameters showed no notable changes, remaining within normal limits at both baseline and the final assessment.

# DISCUSSION

In present study in Group I In 5% patient there was no improvement found, mild improvement in 11 % patients, moderate improvement in 41 % patients and also 43 % patient was found with marked improvement. Group II showed that 6% of patients experienced no improvement, 14% had mild improvement, 34% achieved moderate improvement, and 46% demonstrated marked improvement. After one month of drug-free follow up, it was observed that in the Group I recurrence of symptoms were found in 11% patients while in Group II there was recurrence of symptoms seen in 14 % of patients. The drug used for the study was *Palashadi Varti* (*Palash*<sup>[5]</sup>, *Sarj*<sup>[6]</sup>, *Jambu*<sup>[7]</sup>, *Samanga*<sup>[8]</sup>, *Moch Rasa*<sup>[9]</sup>, *Dhataki*<sup>[10]</sup>). In Palashadi Varti the predominant Rasa was Kashaya rasa, 2<sup>nd</sup> dominant rasa was Tikta, 3<sup>rd</sup> dominant Rasas were Madhur and Katu, 4th dominant Rasa was Amla. The study drug, primarily possesses Kashaya Rasa, which exhibits properties like Samshmana, Soshana, Sangrahi, Stambhana, and Kaphanashaka, helping to dry Kleda and reduce Srava due to the combination of Vayu and Prithvi Mahabhuta. Tikta Rasa, composed of Vayu and Akasha, has Kandughna, Kaphashoshana, and Krimighna properties, while Amla Rasa, with Laghu and Ushna Guna, balances Kapha. Madhura Rasa aids in Vata-Pitta Shamana and epithelial regeneration, and Katu Rasa, formed by Vayu and Agni, reduces Srava and alleviates Shotha with its Shothaghna and Krimighna properties<sup>[11]</sup>. The drug's Laghu and Ruksha Guna contribute to Varnaropana, Lekhana, and Stambhana, reducing Srava, while Snigdha, Guru, and Sheeta Guna help pacify Vata and Pitta. Its Sheeta and Ushna Veerya normalize vitiated Pitta, Vata, and Kapha, aiding in Srava control. The

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formulation's predominant *Katu Vipaka*, supplemented by *Madhura Vipaka*, enhances efficacy, while its unique *Prabhava* and *Tridoshahara* properties collectively alleviate *Kapha-Vata* dominant *Shweta Pradar*. The formulation had properties like antimicrobial (Eliminates harmful microorganisms and helps preserve a balanced, healthy vaginal flora), antiinflammatory (Reduces inflammation and lowers excessive secretion), immune-modulatory effect, antioxidant & Astringent (Restrains *Srava*) activity.

# CONCLUSION

Palashadi Varti has proven effective in reducing Shweta Pradar. It is reported from this study that the recurrence rate is higher in patients who were treated with Clindamycin & Clotrimazole Vaginal suppository as compared to the study drug Palashadi Varti. It was found that Palashadi Varti extract exhibited antimicrobial and antifungal activity. It was observed that patients could tolerate the treatment quite well.

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