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MANAGEMENT OF SHWITRA (VITILIGO) WITH VAMANA KARMA AND RAKTAMOKSHANA ALONG WITH SOMRAJI GHRITA – AN OPEN LABELLED RANDOMIZED COMPARATIVE CLINICAL TRIAL

Vd. Bhaumik Suthar^{1*}, Vd. Falgun Patel² and Vd. Ram Shukla³

Assistant Professor, Department of Panchkarma, Ananya Ayurved College, Kirc Campus, Kalol, Gujarat 382721.
 Associate Professor, Department of Panchkarma, Govt. Akhandanand Ayurved College, Ahmedabad, Gujarat 380001.
 Deputy Hospital Superintendent/ Vaidya Panchkarma, Govt. Ayurved Hospital, Kherva, Gujarat 384001.



*Corresponding Author: Vd. Bhaumik Suthar

Assistant Professor, Department of Panchkarma, Ananya Ayurved College, Kirc Campus, Kalol, Gujarat 382721.

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ABSTRACT

Shwitra is a chronic, autoimmune disease that appears on the skin. There is about 1% of whole world population today who are suffering from *Shwitra*. In current study, efforts have been made to evaluate and compare the efficacy of *Vamana Purvak Shamana* and *Raktamokshana purvak shamana chikitsa*. In present study 30 patients having the signs and symptoms of *Shwitra* were selected from Govt. Akhandanand Ayurved Hospital, Ahmedabad. In group A 15 patients were treated with *Vamana karma*, followed by administration of *Somraji Ghrita* orally, in group B 15 patients were treated with *Raktamokshana* (*Siravedh*) *karma*, followed by administration of *Somraji Ghrita* orally. Moderate improvement was found in 1(6.66%) patients in group B. Mild Improvement was found in 9 (60%) patients in group A, 6(40%) patients in Group B. Unchanged Improvement was found in 6 (40%) patients in Group A, 8 (53.33%) patient in Group B. It may be concluded that *Siravedh* with followed by *Shamana chikitsa* and *Vamana karma* followed by *Shamana chikitsa* both are equally effective in the management of *Shwitra*.

KEYWORDS: Raktamokshana, Shwitra, Somraji Ghrita, Siravedh, Vamana karma.

INTRODUCTION

As we have a tendency to all are aware that, the skin is that the largest organ of body. For the common adult human, the skin contains area of between 1.5-2.0 square meters (16.1-21.5 square feet) and concerning sixteenth of total body weight.

Ayurveda is the repository of life saving remedies which are therapeutically safe and efficacious, but its old concept and practice should be re-modeled and fitted to the contemporary needs of the present sophisticated world. The importance of Ayurveda in global scenario is because of its holistic approach towards positive life style so that we can live healthier and more balanced life.

Skin is the first organ of the body interacting with the environmental agents like physical, chemical and biological agents. Skin could be a link between internal and external atmosphere and is additionally the seat of complexion. Variations in the environmental stimuli and natural ability of body to deal with these factors result in spontaneous remissions and relapses. Interaction with these factors results in specific reaction pattern producing characteristic skin lesions in different parts of

the body. Skin is a mirror that reflects internal and external pathology and thus helps in diagnosis of diseases. It is one of the five '*Indriyas*' which is '*Sparshanendriya*' as told by Ayurveda, which is responsible for the perception of touch. ^[1] Large community prevalence studies have demonstrated that between 20-30% of the population have various skin problems requiring attention. ^[2]

A variety of skin diseases are collectively explained in Ayurveda under the heading *Kushtha*. *Shwitra* is a variety of skin disease placed in the chapter of *Kushtha*.

25 June - has officially been declared "World Vitiligo Day"

Vitiligo is a chronic, autoimmune disease that appears on the skin. This disease is most common in northern European countries; its higher incidence is seen in the Negroes of East Africa. India has an incidence approaching 1% i.e. less than European countries. [3] The prevalence ranges from 0.5% to 1% in most countries, but more than 8% in some regions of india.

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Various environmental factors have been suggested as aggravating to vitiligo including stress, withdrawal of systemic corticosteroid, excessive alcohol consumption and smoking but few have shown statistical significance. [4] Vitiligo is a challenging problem globally and nationally. It is chronic in nature, difficult to treat and even after being cured there are chances of reoccurrence.

In modern science there is no effective treatment of vitiligo. Very few drugs like steroids, PURA, ultraviolet light, and immune system suppressing medications such as Methotrexate are available and they create number of side effects. Now-a-days, in field of skin problems *Ayurveda* contributes remarkably because it eradicates root cause of disease. Ayurvedic treatment reduces the chances of recurrence through *Shodhana*, *Shamana*, and *Nidana parivarjana* - a complete course of treatment.

According to *Ayurveda* three types of *Chikitsa* are described by *Acharya* among them *Samshodhana* is first and the supreme; because of its capacity to eliminate the excessive *Dosha*.^[5] *Kushtha* in general and *Shwitra* particularly have excessive accumulation of *Dosha* and are chronic in nature.^[6] Hence *Samshodhana* therapy seems to be the first line of treatment in *Shwitra*. The classics also emphasize on repeated *Shodhana* in *Kushtha*.^[7]

For present study a complete course of the treatment was selected. i.e. *Vamana karma*, followed by *Somraji ghrita and Raktamokshana (siravedh)* followed by *somraji ghrita* as a *shamana* treatment.

MATERIAL AND METHODOLOGY

30 patients of *Shwitra* were randomly selected from OPD & IPD of Govt. Akhandanand Ayurveda College & Hospital, irrespective of their caste, sex, profession and religion.

AIMS AND OBJECTIVE

To evaluate and compare the efficacy of Vamana Purvak Shamana and Raktamokshana purvak shamana in the management of Shwitra.

INCLUSION CRITERIA

- 1. Patients having sign and symptoms of *Shwitra* (Vitiligo).
- 2. Patients between age group of 18 years to 60 years were selected.

3. Patients indicated for *Vamana and Raktamokshana* as per *Ayurvedic* classics.

EXCLUSION CRITERIA

- 1. Patients having chronic condition, more than 5 years
- 2. Patients contraindicated for *Vamana* and *Raktamokshana* as per *Ayurvedic* classics.
- 3. Patients having all other de-pigmentory disorders.
- 4. Patients having serious cardiac, renal, hepatic diseases.
- Patients having major illness like IDDM, NIDDM which are poorly controlled and any other systemic diseases.
- 6. Patches due to burning, chemical explosion etc and located at region of *Guhya*(Genital region), *Panitala*(Foot soles and Hand soles), *Oshtha* (Lips), *Aekanga*, *Sarvanga*(whole body).
- 7. Patches with Raktaroma & Sansakta.
- 8. Patients with known drug hypersensitivity, photosensitivity,
- 9. Pregnant and lactating women.

INVESTIGATIONS

- 1. Blood –Hb %, TLC, DLC, E.S.R. etc.
- 2. Urine Routine & Microscopic examination.
- 3. F.B.S. and P.P.B.S. examination was advised where ever it is necessary.
- 4. Stool macro and microscopic investigation will carry out to ascertain the presence of *Krimi* if any. (If required)
- 5. Wood's lamp test. (If required).

DIAGNOSTIC CRITERIA

A diagnosis was made on the basis of classical signs and symptoms of *Shwitra* (Vitiligo) described in *Ayurvedic* texts & Modern medical science.

PLAN OF STUDY

Grouping: Patients were allocated by using computer generated randomization method. In present study two groups were there, each group were having minimum 15 patients.

Group 'A' – In this group after classical *Vamana Karma*, oral administration of *Shamana Sneha* in the dose of 20 ml/day were given for the duration of 4 weeks with warm water as *Anupana*.

VAMANA KARMA

Vamana Karma followed by Shamana Chikitsa. Kritvedhanadi Yoga Vamana were administered in patients of group "A".

Table 1: Purva Karma.

| Procedure | Drug | Dose | Duration | |
|------------------|------------------------------------|-------------------------------|--|--|
| Deepana & | Panchkola Churna -2gm/3times a day | 2gm/ 3 times | Till the appearance of Samyaka Deepan and | |
| Pachana | with warm water | 2gm/ 5 times | Pachana Lakshana observed. | |
| Snehapana | Somraji Ghrita | 20-40ml (starting dose)as per | 3-7 days (Depending upon the appearance of | |
| <i>Sпенарана</i> | Somraji Girna | Koshtha and Agni | Samyaka-Snigdhata Lakshanas) | |
| Abhyanga and | Nirgundi Taila and Sarwanga Bashpa | | Davis | |
| Swedana, | Sweda with Dashmool Kwath | | Days | |

Pradhan Karma

- Aakanthpan By Dugdha
- Vaman dravya

Kritvedhana Bija Churna-6 Gm

Vacha Churna-3gm

Saindhava-1gm

Madhu-Q.S.

After giving Vamana Aushadhi wait for one Muhurt

- Vamanaopaga Dravya: Yastimadhu Phanta
- **Time of procedure:** Early morning

Paschata Karma SAMSARJANA KRAMA

- As per the observations during the Vamana process, the nature of Shuddhi were decided (Pravara, Madhyama or Avara) and the Samsarjana Krama were decided according to the Shudhhi.
- The regimen of 7, 5 or 3 days shall be fixed according to the *Shudhhi*. The sequence of *Peya*, *Vilepi*, *AkritaMudgaYusha*, *KritaMudgaYusha*. were served for 3, 2 or 1 *Aahar Kala* according to the type of *Shuddhi*.
- All these foods were prepared according to the methods described in standard *Ayurvedic* texts.

SHAMANA YOGA

Somraji Ghrita orally as Shamana Yoga in the dose of 20 ml/day for the duration of 4 weeks with warm water as Anupana.

Group 'B' – In this group after *Raktamokshana Karma*, oral administration of *Shamana Sneha* in the dose of 20 ml/day were given for the duration of 4 weeks with warm water as *Anupana*.

PROCEDURE

- ➤ Siravedh One sitting in a week. (Total 4 sitting during whole study)
- > Materials: Snigdha Yavagu, Taila (Abhyangarth), Nadi Swedana Yantra, scalp vein (NO. 20/24), Guage, measuring glass, Kidney tray, Antiseptic lotion, Raktasthambhaka Yoga (Sphatika, Gairika, Haridra), Bandage, Cotton, Emergency kit (if needed).

Site: Maximum protruded vein from affected area was selected for the *Siravedh*.

Purva Karma

- > Snigdha Yavagupaan
- After that Sarvang Abhyanga and Sarvang Nadi-Swedana

Pradhana Karma

- ➤ Tourniquet were tied above the affected part until the procedure is completed.
- Look for protruded vein around the affected part.
- Siravedhana were carried out by scalp vein (NO. 20/24).
- In this procedure we were letting approximate less

than 270ml of blood during one sitting.

Paschat Karma

- After the complete stoppage of bleeding Bandage were applied.
- The lukewarm & light diet were given to the patients for *Agni Deepan*.

FOLLOW UP

After completion of the treatment, patient was advised to visit weekly for follow up for 4 weeks.

ETHICAL CLEARANCE

Study was started after obtaining Ethical clearance from Institutional Ethical Committee, Vide Certificate. No.108 dated 01/08/2018.Govt. Akhandanand Ayurved College, Ahmedabad.

"CTRI" REGISTRATION

This clinical trial was registered under CTRI (Clinical Trials Registry of India) with CTRI no CTRI/2019/02/017463.

CRITERIA FOR ASSESSMENT

• Result was assessed on the basis of relief in the signs & symptoms of *Shwitra* by specific scoring pattern adopted from WHO Scoring of *Ayurveda*, G.A.U.

VASI score was used for assessment of result in signs and symptoms of Vitiligo.

The total effect of the therapy was assessed considering the overall improvement in signs and symptoms. For this purpose, following categories were maintained.

Table 2: Criteria for Assessment of Overall effect of the therapy (subjective parameter and VASI score wise).

| Percentage | Effect of therapy |
|------------|----------------------|
| 0-25 | Unchanged |
| 26-50 | Mild improvement |
| 51- 75 | Moderate improvement |
| 76-99 | Marked improvement |
| 100 | Cured |

OBSERVATIONS AND RESULTS

Statistical Analysis

The information gathered on the basis of above observations was subjected to statistical analysis. The Wilcoxon rank sum test has been carried out for all data to analyze the effect of individual therapy in the both groups. Mann Whiteny test has been used to compare the effect of therapies of the two groups all data. The obtained results have been interpreted as.

- Insignificant P > 0.05
- Significant P < 0.05
- Highly Significant P < 0.001

IN GROUP-A

15 patients were treated with *Vamana* and *Shamana*. It showed that this therapy provided highly significant relief in *Mandalotapatti*(47%), insignificant relief in *Rukshata*(30%) insignificant relief in *Saparidaha*(46%), insignificant relief in *Bahalatva*(67%), highly significant relief in *Kandu*(95%).

In Signs, in group A Highly significant difference was found in **VASI** Score, was decreased by 19.87%.

IN GROUP-B

15 patients were treated with *Raktamokshana* and *Shamana*. It showed that this therapy provided highly significant relief in *Mandalotapatti*(45%), highly significant relief in *Rukshata*(92%) significant relief in *Saparidaha*(91%), insignificant relief in *Bahalatva*(27%), highly significant relief in *Kandu*(91%).

In Signs, in group B Highly significant difference was found in **VASI** Score, was decreased by 22.24%.

Comparison between two groups

There was statistically insignificant different between two group in chief symptoms like, *Mandalotapatti*, *Rukshata*, *Saparidaha*, *Kandu*. Highly significant different between two group in chief symptoms like *Bahalatva*.

There was statistically insignificant different between two group in Signs VASI Score.

Summary of overall effect of therapy

- ✓ Complete Remission was observed in no patients in all the groups.
- ✓ **Mild Improvement** was found in 9 (60%) patients in group A,6 (40%) patients in Group B.
- ✓ **Moderate Improvement** was found in 0 patients in Group A, 1 (6.66%) patient in Group B.
- ✓ **Unchanged Improvement** was found in 6 (40%) patients in group A, 8(53.33%) patients in Group B.

Table 3: Comparison of effect of the rapies of chief complaints in Group A (n=15) and Group B (n=15) (Wilcoxon test).

| Compleints | G | | Mo | ean | Mean | % Relief | SD | SE | W | P | S |
|----------------|----|----|------|------|-------|----------|------|------|------|--------|----|
| Complaints | r. | N | BT | AT | Diff. | % Kellel | | | l vv | r | 3 |
| Mandalotapatti | A | 15 | 2.53 | 1.33 | 1.20 | 47 | 0.56 | 0.14 | 105 | 0.0001 | HS |
| | В | 15 | 2.66 | 1.46 | 1.20 | 45 | 0.67 | 0.17 | 91 | 0.0002 | HS |
| Rukshata | A | 15 | 0.20 | 0.13 | 0.06 | 30 | 0.25 | 0.06 | 1 | < 0.05 | IS |
| | В | 15 | 0.8 | 0.06 | 0.74 | 92 | 0.59 | 0.15 | 55 | 0.002 | HS |
| Saparidaha | A | 15 | 0.13 | 0.06 | 0.06 | 46 | 0.25 | 0.06 | 1 | >0.99 | IS |
| | В | 15 | 0.73 | 0.06 | 0.67 | 91 | 0.89 | 0.23 | 21 | 0.031 | S |
| Bahalatva | Α | 15 | 0.4 | 0.13 | 0.27 | 67 | 0.45 | 0.11 | 10 | 0.125 | IS |
| | В | 15 | 1 | 0.73 | 0.27 | 27 | 0.45 | 0.11 | 10 | 0.125 | IS |
| Kandu | A | 15 | 1.4 | 0.06 | 1.34 | 95 | 0.89 | 0.23 | 66 | 0.001 | HS |
| | В | 15 | 1.46 | 0.13 | 1.33 | 91 | 0.81 | 0.21 | 78 | 0.0005 | HS |

S-Significant, HS- Highly Significant, IS- Insignificant

Table 4: Intergroup Comparison of Group A & Group B for Subjective Parameters. (Mann-whitney test)

| No. | Complaints | No. | Mean Diff. | SD | SE | U | P | S |
|-----|---------------|------------------|---------------|------|-------|-------|-------|----|
| 1. | Mandolatnatti | Α | 1.20 | 0.72 | 0.18 | 99.50 | 0.59 | IS |
| 1. | Mandolatpatti | В | 1.20 | 0.74 | 0.19 | 99.30 | | 13 |
| 2. | 2. Rukshata | Α | 0.06 | 0.35 | 0.09 | 105 | 0.75 | IS |
| 2. | Kukshaia | В | 0.74 | 0.25 | 0.06 | 103 | | 13 |
| 3. | Saparidaha | Α | 0.06 | 0.25 | 0.06 | 112.5 | 0.98 | IS |
| 3. | | В | 0.67 | 0.25 | 0.06 | | | |
| 4. | Bahalatya | A 0.27 0.35 0.09 | 0.09 | 45 | 0.005 | HS | | |
| 4. | Бапанича | В | 0.27 | 0.45 | 0.11 | 43 | 0.003 | пъ |
| 5. | Kandu | Α | 1.34 | 0.25 | 0.06 | 105 | 0.75 | IS |
| 3. | Kanau | В | 1.33 | 0.35 | 0.09 | 105 | | 12 |

S-Significant, HS- Highly Significant, IS- Insignificant

Table 5: Effects of therapies on semi-objective parameters on Group A (n=15) & B (n=15) (wilcoxon test)

| SCORE | | Mean | | Mean | 0/ | Diff | Diff | ·w' | 6m? | C |
|-------|----|-------|-------|-------|--------|---------|------|-----|----------|----|
| SCORE | Gr | BT | AT | Diff | % | $SD\pm$ | SE± | w | b, | 3 |
| VACT | A | 35.53 | 28.46 | 7.06 | 19.87↓ | 3.63 | 0.93 | 105 | 0.0001 | HS |
| VASI | В | 49.73 | 38.66 | 11.06 | 22.24↓ | 12.53 | 3.23 | 120 | < 0.0001 | HS |

S-Significant, HS- Highly Significant, IS- Insignificant, ↓-Decreased and ↑-Increased.

Table 6: Comparison of effect of the rapies on semi-objective parameters on group A (n=15) & B (n=15) (mannwhitney test).

| SCORE | Gr. | Mean Diff | Diff SD± | Diff SE± | ʻu' | 'p' | S |
|-------|-----|-----------|----------|----------|-----|------|----|
| VACT | A | 7.06 | 18.93 | 4.88 | 90 | 0.26 | IC |
| VASI | В | 11.06 | 26.94 | 6.95 | 90 | 0.36 | 13 |

S-Significant, HS- Highly Significant, IS- Insignificant.

Table 7: Overall effect of therapies in Group A and Group B.

| | Group A(| n=15) | Group B(n=15) | | |
|----------------------|-----------------|-------|--------------------|-------|--|
| Gradations | No. of Patients | % | No. of Patients | % | |
| Complete Remission | 0 | 0 | 0 | 0 | |
| Marked Improvement | 0 | 0 | 0 | 0 | |
| Moderate Improvement | 0 | 0 | 1 | 6.66 | |
| Mild Improvement | 9 | 60 | 6 | 40 | |
| Unchanged | 6 | 40 | 8 | 53.33 | |

DISCUSSION

According to classics Shwitra is a type of Kilasa and is caused by Tridosha and Meda Dhatu as Dushya. [8] Because all the Kushtha caused by Sapta Dushyas where three *Doshas* are included. [9] The condition which has white color vitiated in skin is called 'Shwitra'. Acharya Charaka has listed the Shwitra under the Rakta Pradoshaja Vikara. [10] Consequently the factor causing Rakta Pradosha may also be considered as causative factors of Shwitra. Viruddha Ahara (incompatible diet) is mentioned as the prime causative factor of Kushtha in general and Shwitra in particular. These incompatible foods are responsible for the formation of Ama (exogenous toxic source). Ama may interfere with absorption of nutrients which accepted as one of the etiological factor for Vitiligo; as prolonged consumption of diet poor in protein and cuprominerals was thought to be contributory factor for Vitiligo. [11] *Charaka* stated that Papakarma, Guruninda, [12] unlawful acts and Harita samhita mentioned stealing of silver are causes for Shwitra. There is no logic to see these things as a Nidana in present days. But these may induce stress in the patients and become Vyanjaka Hetu for triggering of further depigmentation and also is observed that sudden emotional trauma and repression have been noted to be responsible for very sudden onset of and rapid spread of lesion.[13]

In Ayurveda Agni (digestive fire) plays key role in any disease. In Vamana Karma to digest Sneha, Agni is most important factor, so for increasing efficacy of Agni, Deepana-Pachana Karma is necessary. For the purpose

of *Deepana* and *Pachana*, *Panchkola churna* was given. *Panchkola* is uniform powder combination of five drugs i.e *Shunthi*, *chavya*, *chitraka*, *pippali moola* and *Pippali*. All ingredients of *Panchkola* have *Deepana*, *Amapachana* (potent to digest *Ama*), *Kaphaghna*, *Kushthaghna* (ruin the skin diseases) and *Krimighna* (wormicidal) properties. [14]

The drug selected for this study was 'Kritavedhanadi Churna', because of its easily availability, less complication and easy to administer in the patients. Pharmacodynamics of Kritavedhanadi Churna is Rasa-Tikta; Guna - Laghu, Ruksha, Tikshana; Veerya -Ushna; Vipaka - Katu. The Vamaka Yoga, after its ingestion reaches the heart and spreads all over the body due to its Vyavayi Guna and Anutwa Bhava (Anutwamcha Anumarga Samcharitwam) of Sukshma Guna. The drug after attaining its optimal concentration at the desired sites separates and liquefies the stagnated Doshas and Dushyas in microcirculation, due to its Guna. Then these liquefied Doshas and Dushyas migrate into the Koshtha, the migration of vitiated Doshas and Dushyas from Shakha to Koshtha is because of Anu Pranavabhava (Pranavatwam Iti Kosthagamano Mukhatwam) quality of Vamaka Dravya. The Doshas after their migration into the Koshtha will move in upward direction due to the Prabhava (Vamana) of Vamaka Yoga. The Panchabhoutika combination (Agni+Vayu) of Vamana Dravya will also help in accelerating the upward movement of Doshas. Then these Doshas are eliminated through emesis by the action of Udanavaya. So the patients suffering with Shwitra will attain homeostasis of Dosha, Dhatu and Malas, in

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the presence of *Nidanaparivarjana* (avoiding the defaults of diet and life style).

The conventional *Siravyadh* procedure by *kutharika shastra* was modified by utilizing 20 number disposable scalp vein as equipment; which was easily available and found suitable. There is no problem of septic precautions also. In ancient time *kutharika* and *trikaurcha* were used which are very crude methods. In present era it is practically not possible because the use of *kutharika shastra* may cause injury to posterior wall of vein during procedure which leads to subcutaneous hematoma. The patient also will not get ready for such procedure due to delicate body structure.

Siravedh is predominantly indicated in pitta, rakta and kaphaja vyadhies or when Pitta or kapha is in anubandha to vata dosha. In such conditions of vata prakopa due to kapha and pitta avarana, Siravedh can help to remove the avarana of pitta and kapha dosha giving way for anuloma gati of vitiated vata that indirectly cures the vatika symptoms along with symptoms produced by kapha dosha.

A preparation of *Bakuchi* (Psoralea corylifolia), *Guggulu* (Commiphora Mukul), *Amalaki* (Emblica officinalis), *Haritaki* (terminalia chebula), *Bibhitak* (terminalia bellirica), *Nimb* (azadiracta indica), *Devdaru* (cedrus deodara), *Parpat* (fumaria vaillantii), *Kantakari* (solanum surratence), *Patol* (trichosanthes dioica), *Trayamana* (geniana kurroo), *Duralabha* (fagonia cretica), *Khadira* (Acasia catechu) was selected for the present study. (*Bhaishjya ratnavali- kushtha adhyaya*).

These drugs act on Rasa, Rakta, Mamsa and Meda dhatus. Shwitra which is having Rakta, Mamsa and Meda as the Dushya (spoiled elements), therefore Somraji ghrita was selected in for Shamana and administered in liquid form.

CONCLUSION

- Shwitra characterized by white patches which effectively resembles and represents Vitiligo according to modern science.
- Most of the patients of *Shwitra* were more concerned about *Shweta Mandala* (hypo pigmented or white coloured patches) instead of any other symptoms of *Shwitra* and visit hospital for same.
- Viruddha Ahara (incompatible diet) like milk with salt, milk with sour foods, milk with fish, excess taking of fermented foods were observed in most of patients of Shwitra.
- Raktamokshana (Siravedh) and Shamana sneha of Somraji ghrita (Group B) therapy showed better results in symptoms like Saparidaha and Rukshata and VASI score than Vamana and Shamana sneha of Somraji ghrita (Group A) therapy.
- Group A showed better effect on *Mandalotpatti*, *Bahalatva* and *Kandu* like symptoms.

- ➤ Group B presented better repigmentation response on face, neck, dorsa of hands and ankles and didn't respond on distal extremities and on *Sansrishta* (mixed one another patches).
- Raktamokshana group percentage wise showed better result in VASI score as compare to Vamana group.
- ➤ Overall, 60% patients showed mild improvement, 40.00% patients showed unchanged improvement in Group A. Overall 6.66% patients showed Moderate improvement while 40% patients showed Mild improvement in Group B.
- Therapeutically, both the groups (Group A- Vamana and internal application of Somraji ghrita) and Group B- Raktamokshana (Siravedh) and internal application of Somraji ghrita) provided considerable symptomatic relief. However, Group B (Raktamokshana group) was found to be relatively more effective percentage wise in the management of majority of the symptoms and on quality of life.
- Hence, it is concluded that, "Vamana and Raktamokshana Karma along with Somraji Ghrita are equally effective in the management of Shwitra".

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