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Review Article

APPLIED ASPECT OF PANCHAKARMA AND THEIR MECHANISM OF ACTION IN URDHWAJATRU GATA-ROGA (DISEASE OF EYE, ENT, ORODENTAL, HEAD AND SCALP)

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ABSTRACT

The phrase "Swasthyasya Swasthya Rakshnam" represents, maintaining the health of a healthy person, prevention of disease and "Aaturasya Vikara Prasamanam", which means curing the disease of ailing person. These are the main aim and objective of Ayurved. The Shalakyatantra, a part of Astanga Ayurved, deals with the disease above throat. It includes the disease and treatment of Netra, Karna, Nasa, Kantha, Mukha, Danta and Siro-Kapala Gata Roga. Sansamana (conservative), Samsodhana (Panchakarma) and the Shastra chikitsa (surgical procedures) are the essential treatment modalities followed to treat a disease. These are the basic treatment modalities, explained in the classical texts of Ayurved. Panchakarma is a branch of Ayurveda, meant for the removal of vitiated Dosha, Mala or toxic part of body and balances Dosha-Dushya through, Vamana, Virechana, Nashya, Basti, Rakta Mokshyana etc. In the disease like Abhisyanda, Adhimantha, Timira, Danta Nadi, Upakusha and Dusthapratishyaya, most of the Panchakarma therapies are indicated according to their severity of the disease. In practice the patient, who undergoes Panchakarma or Sodhana Chikitsa as Pradhana karma or Poorvakarma shows better result than the patient treated without Sodhanakarma. The patients, treated with Sodhanakarma recover faster than patient treated only with Shamana-chikitsa does. Therefore, increasing and mainstreaming the Panchakarma procedure in Shalakya Tantra will definitely provide an effective and satisfactory outcome in *Urdhwajatrugata* disorders.

INTRODUCTION

Sansamana (conservative), Samsodhana (Panchakarma) and the Shastra chikitsa (surgical procedures) are the essential treatment modalities followed to treat a disease in Ayurveda[1]. Samsodhana Chikitsa is one of the best methods to remove, reduce and balance the Saririka Dosha. Samsodhana or Sodhana chikitsa is also known as the Panchakarma Chikitsa. The Panchakarma includes the Poorvakarma Snehana and Swedana^[2].

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The *Pradhanakarma* as the *Vamana*, *Virechana*, Anuvasana Basti, Niruha Basti and Nashya^[3]. Basti can be added instead of Anuvasana and Niruha Basti with Raktamokshana in Panchakarma Shalakyatantra is one among the eight branch of Ayurved and it deals with the disease of Netra, Karna, Nasa, Siro-Kapala and Mukhagata roga^[4]. While considering the predominant Dosha Urdhwajatrugata roga, Karna and Danta are Vata predominant, so the treatment followed is Vatahara chikitsa like Sneha as Pana, Kavala Gandusha, Sneha Virechana and Siro Basti etc. Mukha is Kapha predominant, so treatment followed are Kaphahara chikitsa, Lekhana, Pratisarana, Siro Virechana and Jalaukavacharana etc. The diseases of Kantha are Kapha-Rakta predominant, so treatment followed are Vamana, Siro Virechana, and Raktamokshana etc. In Siro-Kapalagata Roga the treatment followed are

Nashya, Raktamokshana, Siro-Virechana, Mudhni-Taila and Dhoomapana etc. In Danta Nadi, Upakusha and Dusthapratishyaya almost all the Panchakarma therapy are indicated according to the Dosha-Dushya, Baya (age) and Kala. The disease treated with Panchakarma or Sodhana Chikitsa as Pradhana karma or as Poorvakarma, never reoccur and shows better result than the patient treated without Sodhana Karma^[5, 6]. Here in this context an attempt is made to collect and to discuss the applied aspect of Panchakarma with their mechanism of action in Shalakyatantra.

AIMS AND OBIECTIVES

• To elaborate and to discuss the concept of *Panchakarma* in *Shalakyatantra* with their mechanism of action.

MATERIALS AND METHODS

Literatures will be collected from different classical textbooks of Avurveda, from journals and

from dissertations. The details of *Panchakarma* techniques and their special indications in *Shalakvatantra* are discussed in details.

Panchakarma In Shalakya-Tantra

Panchakarma is a branch of Ayurved, which is adopted in every clinical department of Ayurved according to the Dosha-Dushya, Dhatu, Desha (site of disease), Kala of disease (duration of disease/chronicity) and Baya (age of patient). The Panchakarma includes the Poorvakarma Snehana and Swedana^[2], the Pradhanakarma as the Vamana, Virechana, Anuvasana Basti, Niruha Basti and Nashya^[3]. Basti is also considered instead of Anuvasana and Niruha Basti with Raktamokshana in Panchakarma therapy. Here are few general considerations or facts regarding the Panchakarma and their applied aspects are discussed below.

Table 1: Panchakarma According to Dosha involved in Urdhwajatrugata Roga

Dosha predominance	Treatment Protocol
Vata predominant disease	Basti, Snehana Basti and Nashya
Pitta and Rakta predominant diseases	Virechana and Raktamokshana.
Kapha predominant diseases	Vamana, Nashya, Tikshna Nashya

Specific indications of *Panchakarma* in Various disease of *Urdhwajatru*

Out of the 76- Netra roga, 52 diseases are Sadhya; Vata and Pitta predominant disease are 10 each, Kapha, Rakta and Sannipataja disease are 13, 16 and 25 respectively^[7]. Hence, based on the Dosha, Dushya/Dhatu and chronicity of the disease the treatment protocols are recommended. Netra is the Pitta predominant organ as Alochaka-Pitta seats on the Netra ^[8]. Therefore, while considering the treatment protocol the Virechana, Rakta Mokshyana and Snehana Karma are to be considered as a prime treatment. However, based on the Dosha predominant the other Panchakarma therapies are also recommended. Karna (ear) is Vata Predominant ^[9], so the Snehana (Ghrita pana), Swedana and Rasayana karma are considered first. Tikshna-Nashya, Vamana, Dhoomapana, Kavala and Gandusha are primarily considered in Nasa Roga because of its Kapha predominance. Most of the Dantamoola-gata roga are Kapha-Rakta predominant, hence the treatment protocol followed are Raktamokshana, Kavala, Gandusha, Dhoomapana, Nashya etc. Talu and Kantha Roga are Kapha and Rakta predominant and among them, most of the diseases are Asadhya. The procedures adopted are Raktamokshana, Kavala, Gandusha and Tikshna-Nashya. Danta Roga are Vata predominant and the treatment protocol adopted are Sneha Kavala, Gandusha and Snehika Dhoomapana etc. In Jihwa-roga, the treatments followed are Raktamokshana, Kavala and Gandusha etc.

Vamana-Karma (Emesis Therapy)

Vamana is a process in which vitiated Dosha are expelled out through the upper route, through mouth^[10] and it is the principal treatment in Kaphaja disease^[11]. Vamana must not be advised before ten and seventy-years of age group^[12]. In Vamanakarma, the Apakwa Pitta Dosha and Kapha are forcibly expelled out through the oral route ^[13]. In Vamana Karma the Kapha followed by Pitta Dosha is expelled out through oral route^[14].

Table 2: The Vamana Protocol

Duration	Event
Day 1-3	Deepana/Pachana
4-7 th Day	Snehapana ^[2]
1 day gap may be provided and on this day <i>Kaphakara Ahara</i> along with <i>Abhyanga</i> and <i>Swedana</i> (day 8) is recommended.	
Day 8	Kaphakara Ahara, Abhyanga and Swedana [2]
Day9 (Brahmya-Mhurta	Vamana Karma followed by Dhoomapana (Snehika,

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Dawn)	Vairechanika, Prayogika) ^[15]
Samsarjana Krama/ Ahara	Peya, Vilepi, Akruta-Yusha, Kruta-Yusha, Akruta-Mamsa Rasa
Vidhi	and <i>Kruta-Mamsa Rasa</i> ^[2] are recommende respectively

Specific indication of Vamana with their Specific yoga in Shalakya Tantra

Netra-roga- In *Kukunaka*, a disease of infant, *Vamanakarma* is done with *Pippali, Saindhava, Yasthimadhu* and *Sarsapa Kalka*^[18]. Common protocol in *Poorvakarma* of *Vartma Lekhana* is *Snehana* followed by *Vamana* and *Virechana* ^[19]. In *Pakshmosata, Vamana* is indicated with *Ksheera* and *Ikshu rasa*. ^[18]

Karna-Roga- If there is *Kapha* predominance in *Karnanada* and *Badhirya* then *Vamana* followed by *Dhoomapana* and *Nashya* are recommended [21]. In *Karna Kandu, Vamana* is probably due to *Kapha* predominance [25]. Similarly, in *Kaphaja Karnasoola, Vamana karma* is indicated after *Snehapana* with *Pippali* and *Ghrita*[26].

Nasa-Roga- Vamanakarma is indicated in Nasaroga, having Kapha predominant. (Table No. 3.)

Kantha-Roga- Vamana is one of the treatment protocols in Rohini [34] and in Kaphaja Galaganda [35]

Mukha-Roga- In *Pooti-Mukha* [38], *Vamana* is advised as *Samanya Chikitsa Upakrama*.

Siro/Kapala-Roga- Tikshna Vamana is indicated in Kaphaja-Siro Roga [39] and also in Khalita, Palita [40]

Other disease of *Urdhwajatrugata roga*, where *Vamana* is indicated is mentioned in Table No. 3.

Table 3: Vamana-Karma in Shalakyatantra

Name of Procedure	Roga Adhisthana/ Gata Roga	Name of Disease or Procedure
	<i>Netra-</i> Eye	Pilla Roga ^[16] Sasofa and Asofa Akshipaka ^[17] Kukunaka and Pakshmosata ^[18] Vartma Lekhana ^[19]
	<i>Karna</i> - Ear	Karna Vidradhi ^[20] Karna nada and Badhirya ^[21] Krimi karna ^[22] Karna Kandu, Kaphaja Karnasoola, Pooti Karna ^[23] Karna Sotha and in Karna Kleda ^[24] Kapha predominance in Karna nada and Badhirya ^[21] Karna Kandu, Vamana is probably due to Kapha predominance ^[25] . Kaphaja Karnasoola ^[26]
Vamana	Nasa-Roga	Apeenasa and Pootinasa ^[27, 28] Urdhwaga Raktapitta ^[29] Pooya Sonita ^[30] Pratishyaya ^[31, 32] Kaphaja Pratishyaya ^[33]
	Kantha-Roga	Rohini ^[34] Kaphaja Galaganda ^[35]
	Mukha-Roga	Pittaja and Kaphaja Sarvasara Mukha Roga and in Pittaja Mukhapaka ^[37] Upakusha ^[36] Pooti-Mukha ^[38]
	Siro/Kapala-Roga	Kaphaja-Siro-Roga ^[39] Khalita, Palita ^[40] Suryavarta and in Ardhavavedaka ^[41] Indralupta and Arunshika ^[42]

Virechana (Purgation Therapy)

Virechana is a process in which aggravated *Dosha* are expelled out through anal canal, the lower route or through both upper and lower route^[10]. The medicines by which the digested or indigested parts are made to come out through the anal canal, is known as *Virechaka* medicine^[13] VirechanaKarma is indicated in between ten to seventy year age group^[12]. It is the principal treatment in *Pittaja* disease ^[11]. The *Virechana* Protocol is mentioned in Table 4.

DurationEventDay 1-3Deepana/Pachana4-7th DaySnehapana[2]Day 8-9Diet like JangalaPradesha sneha with Mamsa rasa, or Sneha with Yusha, that never induces Kapha, Abhyanga and Swedana [2]Day 10Virechana KarmaSamsarjana
Krama/Ahara VidhiPeya, Vilepi, Kruta-Yusha, Akruta-Yusha, Kruta-Mamsa Rasa and Kruta-Mamsa Rasa are recommended respectively

Table 4: Virechana Protocol

Samsarjana Krama was carried out according to the number of Vega. In this procedure the Mala, Pitta and Kapha are expelled out respectively [14]. Then normal diet should be allowed.

Specific indication of Virechana with their Specific Yoga in Shalakya Tantra. (Table -5)

Netra roga- In *Vataja-Abhisyanda* and *Adhimantha Snehana* and *Virechana* followed by *Basti* is indicated [46]. In *Poorva karma* of *Tarpana* and *Pootapaka, Virechana* is indicated as *Sodhanakarma*[50]. In *Sasofa* and *Asofa Akshipaka, Virechana* is indicated with the decoction prepared from *Drakshya, Haritaki* and *Trivrut* [53,17].

Karna-Roga- Sneha-Virechana with Eranda Taila is indicated in Karna Soola, Karna Nada or Karna Pranada, Khweda and Badhirya [54].

Nasa-Roga- Virechana is indicated in *Pittaja*, *Raktaja*, *Sannipataja* and in the other *Nasaroga* (Table 5)

Mukha-Roga- Virechana is indicated in Pittaja and Kaphaja Sarvasara Mukha Roga [37], Upakusha [37] and in Pittaja Mukhapaka.

Siro/Kapala-Roga- Virechana is indicated in Tridoshaja, Pittaja and Raktaja Siro and Kapalagata Roga.

Roga Adhisthana/ Name of Name of Disease or Procedure Procedure Gata Roga Timira, Kacha and in Abhisyanda [43]. Pilla Roga^[44] Dhoomara or Dhooma Darshi, Amla-vidaadha, Pitta-Vidaadha and Ushna-vidagdha Drishti [45] *Vataja-Abhisyanda* and *Adhimantha* [46] Raktaja-Abhisyanda and Adhimantha^[47] Pittaja Abhisyanda and Adhimantha[48] Netra-Eye Suktika [49] Poorva karma of Tarpana and Pootapaka [50] Virechana-Vartma Lekhana [19] **Purgation** Kukunaka[51] **Therapy** Balasagrathita^[52] Sasofa and Asofa Akshipaka, Virechana [53, 17]. Karna Soola, Karna Nada or Karna Pranada, Khweda, Badhirya^[54] Karna- Ear Vataja-Karna Soola [54] Piitaja-Karnasoola [26] Apeenasa, Pootinasa [55] Nasa-Roga- Nose *Urdhwaga Raktapitta*^[29] Pittaja Pratishyaya [56]

Table 5: Virechana in Shalakyatantra

			Pakwa-Pratishyaya [31]
	Mukha-Roga-Oro- Dental	Madalan Danis Ossa	Pittaja and Kaphaja Sarvasara Mukha Roga [37]
		J	Upakusha ^[37]
		Dentai	Pittaja Mukhapaka ^[37]
			Suryavarta, Anantabata and Ardhavavedaka [57, 58]
	Siro/Kapala-Roga- Scalp	Kaphaja- Siro Roga ^[59]	
		Indralupta, Arunshika ^[60]	
			Khalita and Palita [41]

Basti

Basti is a procedure of introducing Sneha, Kashaya, Ksheera or Ksheerapaka etc. to the rectum or colon through anus. It is an Ayurvedic therapy having curative, preventive and promotive action. Basti is the principal treatment in Vataja disease [11] and is considered as the Ardha Chikitsa [61]. It is not merely the enema, rather it is a highly complex, sophisticated and systemic therapy having wider range of action and indication. It may be Asthapana, Niruha, Matra, Kala and Yoga Basti. The patients who are undergone proper Vamana, Virechana and Samsarjanakarma, can take Snehapana and Basti on ninth day. In Kapha, Pitta and Vata predominant diseases, Basti is indicated for one or three, five or seven and nine or eleven days respectively [2].

Specific indication of *Basti* with their Specific Yoga in *Shalakya Tantra* (Table: 6)

Netra-Roga- In *Vataja-Abhisyanda* and *Adhimantha, Snehana* and *Virechana* are indicated followed by *Basti* [46]. *Basti* is indicated in *Timira* according to *Dosha* predominant [62].

Siro/Kapala-Roga- Virechaka Basti is given in *Pittaja Siro Roga* [64]. *Anuvasana* and *Asthapana Basti* are followed in *Pittaja* and *Raktaja Siro Roga* [39]. *Bala Taila* and *Trivrut Sneha Basti* is followed in *Vatika Siro Roga* [65].

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Name of Procedure	Roga Adhisthana/ Gata Roga	Name of Disease or Procedure
	Netra- Eye	Abhisyanda and Adhimantha [46] Timira [62]
	Nasa-Roga- Nose	Pakwa Pratishyaya ^[31]
Basti	Siro/Kapala- Roga- Scalp	Ardhavavedaka, Suryavarta, Anantabata, Vatika, Pittaja and Raktaja Siro Roga ^[63,57] Pittaja Siro Roga ^[64] Pittaja and Raktaja Siro Roga ^[39] Vatika Siro Roga ^[65]

Table: 6 Basti Indications

Nashya (Table: 7)

The *Nashya* procedure is an integral part of *Shalakyatantra*. It is a process of instilling *Taila, Ghrita, Kashaya, Swarasa, Churna, Dhooma* etc. to the nasal cavity. The aggravated *Dosha,* situated in the *Siro,* are eliminated by this procedure. It may be *Rechaka, Tarpaka, Shamana* or *Navana, Avapida, Dhmapana, Dhooma* and *Pratimarsha Nashya* [^{66]}. *Nashyakarma* is indicated in between seven to eighty years of age [^{12]} and *Sirovirechana* must not be advised before ten and beyond seventy-year age group [^{12]}. In our OPD, we are following *Mukha-Abhyanga* then *Swedana* followed by *Nashya karma* as *Pradhana-karma*. In *Paschat-karma Dhoomapana* followed by *Gandusha* is advised with lukewarm water of *Saindhava*.

Specific indication of Nashya with their Specific Yoga in Shalakya Tantra. (Table: 7)

Netra-Roga- Anutaila nashya is advised in Sushkakshipaka [67] and Marsha Nashya is advised in Avrana Sukla. [68] In Savrana sukla, the depression caused by the Vrana can be recovered by Nashya karma [70]. Madhura and Sheetala Dravya processed Ghrita-Nashya is indicated in Pakshmosata [71]. Nashya is indicated by processed Ghrita of Meda, Sabar-lodha, Sariba, Manjistha, Daruharidra, Yasthimadhu and Ksheera in Dhoomara, Amla-Vidagdha, Pitta-Vidagdha, Ushna-Vidagdha Drishti. [72] Tikshna Nashya is indicated in Balasagrathita [52] and Poorva Roopa of Abhisyanda and Adhimantha except Vataja type [46,73]. Avapida Nashya is advised on the third day of Vartma Lekhana karma [74].

Karna-Roga- Sata-Paki Bala Taila Nashya is indicated in Karna Soola^[75]. In Nasa-Arsha, Sikhari Taila and Taila processed with *Gruhadhooma*, *Pippali*, *Devadaru*, *Karanja*, *yava Kshara*, *Saindhava* and *Apamarga* is used as Nashya.^[76] Tikshna Nashya is indicted in Karna Kandu^[25]. In Unmatha, the disease of ear pinna, *Tikshna Nashya* is

indicated with *Katphala Twak Churna* [77]. *Sirovirechana* is indicated in *Karna Srava, Pooti karna* and *Krimi karna* [78].

Nasa Roga- In Apeenasa and Pootinasa, Vamana followed by Nashya is done with Taila prepared with the paste and decoction of Lakha, Karanja-Beeja, Maricha, Baya Bidanga, Hingu, Pippali, Guda (Jaggery) mixed with sheep urine and Shigru, Kantakari, Danti Beeja, Trikatu, Saindhava, Baya Bidanga and Tulsi^[27]. In Nasanaha and in Nasa Sosha Bala Taila^[27] and Anutaila^[79] Nashya is indicated. In Kshyavathu, Bhramshathu or in Bhrushakshyavo, Siro Virechaka, Tikshna Pradhamana Nashya with Sunthi, Kha, Pippali, Bidang, Drakshya, Siddha ghrita or Taila Nashya ^[27,79] are advised. Vamana followed by Avapida Nashya is indicated in Pooya Sonita ^[79]. The Tikshna Avapida and Pradhamana Nashya is indicated in Nasa Parisrava ^[79]. In Pakwa-Pratishyaya and in Pratishyaya, Nashya and Avapida Nashya is adopted ^[80]. Avapida Nashya is indicated in Urdhwaga Raktapitta ^[29].

Kantha Roga- Nashya is indicated in *Samanya Rohini Chikitsa* [34]. *Pancha moola* processed oil as *Nashya* is indicated in *Vataja Rohini* [81]. *Taila* processed with *Apamarga, Danti, Saindhava, Bidanga,* and *Sweta-aparajita* is indicated in *Kaphaja Rohini* as *Nashya* [82]. The *Kaphahara Nashya* is indicated in *Kaphaja Galaganda* [35].

Mukha Roga- Anu Taila Nashya is indicated in Sheetada [85]. In Vataja Ostha roga; with Vatahara Siddha Taila [86], in Kaphaja Ostha Roga; Kaphahara Nashya is opted [85,86]. Kaphahara Nashya is indicated in Galasundhika [87]. In Sheetada; Triphala, Yasthimadhu, Kamala and Padmakhya [86] processed oil Nashya is indicated. In Danta Besta; with Kakalyadi Gana with oil Dravya and Ksheera [86] is opted. In Soushira; oil processed with, Yasthimadhu, Lodhra, Kamala, Krishna-Sariba, Sweta Sariba, Agaru, Chandana, Gairika and Mishri, is used as Nashya [88] and in this condition, Nashya with processed Ghrita of Sariba, Kamala, Yasthimadhu, Lodhra, Agaru, Chandana, and Ksheera is indicated [36]. Sirovirechana is a treatment protocol in Upakusha, with Madhuragana processed Ghrita [36]. Avapida Nashya is indicated in Krimi Danta [84]. In Gala Sundhika and Adhrusha; Kapha hara and Kashaya rasa Pradhana Nashya are advised [87]. In Vataja Mukha paka; Nashya is advised with processed oil of Vatahara-Dravya [90,91].

Siro/Kapala-Roga- Nasa is the gateway of Siro^[92, 93, 94], so the Nashya is the prime treatment protocol in Siro Roga. In Samanya Siro Roga Chikitsa Upakrama; Nashya is given with Sirovirechaka Churna, Ghrita and Madhu followed by Sarsapa Taila Nashya is indicated. However, this is not followed in Kshayaja and Krimija Siro Roga [95]. In Vataja Siro Roga; Varunadi Ghrita [96], in Pittaja; Jeevaneeya gana, Ksheera siddha Ghrita Nashya[96], in Kaphaja; Tikshna Nashya with Kathafala Churna^[59]and in Raktaja Siro Roga; Nashya is indicated with processed Ghrita of Keshara and Sarkara^[96]. In Krimija-Siroroga; Rakta Nashya, Siro Virechaka (Bidanga, Maricha, Apamarga, Shigru etc.) [97] and in Kshayaja-Siroroga; Nashya is indicated with ghee prepared with Madhura Dravya Oushadhi [97]. Nashya is indicated in Suryavarta, Anantabata, the Bacha, Pippali churna Nashya in Ardhavavedaka^[58, 98] and in Sankhaka, Nashya with Ksheera and Sharpi is recommended [98]. In Darunaka Snigdha Nashya^[42], in Palita, Nili Taila nashya is opted. In Khalita and Palita, Sirovirechaka Nashya is followed by Siro Abhyanga, Nimba Taila nashya with Ksheera pana for one month and Nashya with processed Taila of Bruhatyadigana and Jeevaneeya gana are indicated [41].

Table 7: Nashya Indications

Name of Procedure	Roga Adhisthana/ Gata Roga	Name of Disease or Procedure
Nashya	<i>Netra-</i> Eye	Sushkakshipaka ^[67] Avrana Sukla ^[68] Pilla roga ^[69] Sasofa-Asofa-akshipaka ^[17] Timira ^[62] Savrana sukla ^[70] Pakshmosata ^[71] Dhoomara, Amla-vidagdha, Pitta-Vidagdha, Ushna-vidagdha Drishti ^[72] Balasagrathita ^[52] In Poorva Roopa of Abhisyanda and Adhimantha except Vataja type ^[46,73] On the third day of Vartma Lekhana karma ^[74]
	Karna- Ear	Karna Soola ^[75] Nasa-Arsha ^[76] Karna Kandu ^[25] Unmatha, ^{[77} Karna Srava, Pooti Karna, Krimi Karna ^[78] .

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		Apeenasa and Pootinasa ^[27]
		Nasanaha and in Nasa Sosha [27, 79]
		Kshyavathu, Bhramshathu or in Bhrushakshyavo ^[27, 79]
	Nasa-Roga	Pooya Sonita ^[79]
		Parisrava [79]
		Pakwa-Pratishyaya and in Pratishyaya ^{[80}
		Urdhwaga Raktapitta ^[29]
		Samanya Rohini Chikitsa [34]
	77 d D	Vataja Rohini ^[81]
	Kantha-Roga	Kaphaja Rohini ^[82]
		Kaphaja Galaganda ^[35]
		Paitika Jihwa Kantaka ^[83]
		Danta Harsha, Danta Sarkara [84]
		Talu Sosha [81]
		Sheetada [85]
		Vataja Ostha roga,] [86]
		Kaphaja Ostha Roga ^[85, 86]
		Galasundhika [87]
		Sheetada ^[86]
		Danta Besta ^[86]
	Mukha-Roga	Soushira[88, 36]
		Upakusha [36]
		Upajihwa ^[83]
		Adhimamsa [89]
		Acute (new) Jihwa Alasa [87]
		Danta Pupputaka[86]
		Krimi Danta [84]
		Gala Sundhika and Adhrusha ^[87]
		Vataja Mukha paka [90, 91]
		Samanya Siro Roga [95]
		Vataja Siro Roga ^[96]
		Pittaja [96]
		Kaphaja ^[59]
	Sino /Vanala Doga	Raktaja Siro Roga [96]
	Siro/Kapala-Roga	Krimija-Siroroga ^[97] Kshayaja-Siroroga ^[97]
		Suryavarta, Anantabata, Ardhavavedaka ^[58, 98]
		Sankhaka [98]
		Darunaka [42]
		Khalita and Palita [41]
Dalsta Malsal	wana (Toblo 0)	

Rakta Mokshyana (Table 8)

Rakta-Mokshna is considered as the Ardha chikitsa in Shalya-tantra. In this process the aggravated Rakta or vitiated Rakta is let out of the lesion. This procedure should be applied within sixteen to seventy years of age [99]. It is done through Jalauka (leech), Alabu, Prachhana-karma and Shringa [100] etc. In Raktaja, Pittaja, Kaphaja, Kapha-Raktaja and Tridoshaja Urdhwajatrugata Roga, Mukhagata, Netraroga, Siroroga [99], it is considered as one of the essential treatment protocol. In Siro-Kapalagata Roga, it is an effective treatment. Prior to Siraveda, the Yantrana-Bidhi must be followed, to engorge the veins of oral cavity and head, to identify appropriate vein and to carried out proper vein puncture [101]. The Matra of Raktamokshana is one Prastha [102]. In Paschat karma, application of Raktastambhaka is recommended. For Raktastambhaka purpose tying of tourniquet as mechanical pressure or Sandhana (application of tight bandage with medicated paste), Skandana (coagulation by application of Sheeta dravya), Dahana (cauterization) and Pachana (application of Bhasma)[103] are recommended according to their

need. Another puncture may be done 3-4 *Angula* above the first puncture point to cease the bleeding. The appropriate diet must be followed until the *Dosha* is balanced [102].

Specific indication of Raktamokshana with their Specific Yoga in Shalakya Tantra (Table 8)

Netra-Roga- There are fifteen types of eye diseases, which are *Bedhana Sadhya*. Those are *Puyalasa, Siratpata, Siraharsha, Sasofa* and *Asofa Akshipaka, Anyotavata, Vataparyaya, Vata, Pitta, Kapha, Raktaja* type of *Abhisyanda* and *Adhimantha*^[104]. *Jalaukavacharana* is indicated in *Pakshmosata* over the lid margin at the lash-root ^[71], in *Savrana Sukla*^[111], *Pillaroga* ^[112] and in *Timira roga* associated with *Raaga*^[113].

Karna Roga- In functionally damaged ear or in *Badhirya* (loss of hearing), *Siraveda* is done near ear^[24]. In *Raktaja Karnasoola*, if *Shoola* is not subsiding then *Siraveda* is performed^[114]. In *Utpata* (*Karna Paali Roga*), *Jalaukavacharana* followed by *Sheetala Oushadha lepa* is indicated^[77].

Kantha-Roga- In *Pittaja Rohini, Rakta visravana* is done by *Lekhana karma* followed by *Pratisarana*^[82]. In *Vataja* and *Kaphaja Galaganda, Swedana* followed by *Raktavisravana* with *Upanaha karma* is indicated.

Mukha-Roga- Frequent *Rakta visravana* is advised in *Mukha, Dantamoola* and *Kantha roga*^[115]. In *Sheetada, Raktamokshana* is recommended followed by *Gandusha*^[86]. In *Dantabesta, Raktamokshana* followed by *Pratisarana* is indicated^[86]. In *Upajihwa, Raktasravana* is done with *Anguli-Yantra* followed by *Pratisarana* with *Javakshara*^[116].

Siro-Kapala-Roga- Siraveda is followed in *Samanya Siro Roga Chikitsa*^[94]. In *Pittaja Siroroga, Snehana* followed by *Siraveda*^[96] and in *Arunshika, Jalaukavacharana* is recommended ^[96]. And in *Darunaka, Siraveda* is recommended at *Lalata Pradesha* (forehead). ^[40].

Table 8- Rakta Mokshyana

Table o- Ruktu Mokshyunu		
Name of Procedure	Roga Adhisthana/ Gata Roga	Name of Disease or Procedure
Rakta Mokshyana	<i>Netra-</i> Eye	Puyalasa, Siratpata, Siraharsha, Sasofa and Asofa Akshipaka, Anyotavata, Vataparyaya, Vata, Pitta, Kapha, Raktaja type of Abhisyanda and Adhimantha ^[104] Arjuna ^[105] Ajakajata ^[68] Sasofa, Asofa Akshipaka ^[53, 17] Timira and Yapya Timira ^[62, 106] Vataja Abhisyanda and Adhimantha ^[46] Pittaja Abhisyanda and Adhimantha ^[107] Kaphaja Abhisyanda and Adhimantha ^[108] Raktaja Abhisyanda and Adhimantha ^[47] Puyalasa ^[109, 110] Jalaukavacharana is indicated in Pakshmosata over the lid margin at the lash-root ^[71] Savrana sukla ^[111] Pillaroga ^[112] Timira associated with Raaga ^[113]
	Karna- Ear	In functionally damaged ear or in <i>Badhirya</i> (loss of hearing), <i>Siraveda</i> is done near ear ^[24] <i>Raktaja Karnasoola</i> ^[114] <i>Utpata (Karna Paali Roga)</i> ^[77]
	Nasa-Roga	Nasapaka ^[30]
	Kantha-Roga	Rohini, Eka-Vrinda, Kantha-Saluka ^[34] Pittaja Rohini ^[82] Vataja and Kaphaja Galaganda, Medoja-Galaganda Siraveda ^[82]

		Mukha, Dantamoola and Kantha roga ^[115]
		Pittaja, Raktaja, Abhighataja Ostha Roga ^[86]
		Krimi Danta ^[84]
	Madda Dona	Soushira [86]
	Mukha-Roga	Upakusha ^[36]
		Sheetada ^[86]
		Dantabesta ^[86]
		Upajihwa ^[116]
		Samanya Siro Roga Chikitsa ^[94]
		Pittaja Siroroga ^[96]
	Siro/Kapala-Roga	Arunshika [96]
		Suryavarta, Anantabata, Ardhavavedaka [57]
		Indralupta ^[40]
		Darunaka-at Lalata Pradesha (Forehead). [40]

General Facts on Panchakarma and Disease of Urdhwajatru- Snehana and Swedana are done as the Poorva karma of Panchakarma and Karnapoorana except Jalaukavacharana. Tila Taila Sechana is indicated as post-operative procedure in Sandhana-Karma of Nasa, Karna and Ostha[117]. In chronic diseases, Sodhana produces better result as compared to Shamana Chikitsa. Raktamokshana is one of the best treatment modality in Rakta-Avarana. Deha Sodhana that is *Vamana* and *Virechana Karma* is indicated prior to Mudhni Taila[118]. Kaya Sodhana or Siro Sodhana are indicated prior to Tarpana Karma. Ubatana with Sirovirechaka-Dhoomapana indicated are after *Tarpana* procedure^[119].

DISCUSSION

The term "Panchakarma" includes the Vamana, Virechana, Nashya, Basti and Raktamokshana. The Karmukata or mechanisms of action of the Panchakarma therapy are explained below.

Mechanism of Action

Pradhana Karma

Vamana. Virechana. Basti. Nashya, Raktamokshana are applied as Pradhanakarma in Ayurved. In practice the patient, who undergoes Panchakarma or Sodhana Chikitsa as Pradhana karma or as *Poorvakarma* shows better result than the patient treated without Sodhanakarma. The disease treated with Panchakarma or Sodhana Chikitsa as Pradhana karma or as Poorvakarma, never reoccurs and show better result than the patient treated without Sodhana Karma. [5,6]. Panchakarma is nothing but the Sodhana Chikitsa, as it removes the impurities out of the body. It clears the blocked channels of body and cleans *Indriva*^[2]. From these statements we can conclude that Panchakarma therapy detoxify the body and provides a platform for effective drug absorption and action.

Vamana and Virechana^[10]- Drugs, which are Ushna, Tikshna, Sukshma, Vyavayi and Vikashi, by virtue of their potency, they reach the Hridaya (heart) and

circulated or distributed all over through the Arteries or vessels. They liquefy adhere morbid *Dosha* by the predominance of *Agni Mahabhoota*. Because of the *Tikshna* property, they separate the adhere *Doshas* located in the gross and subtle channels of the entire body. Because of the tendency of the drug to move through subtle channels and to flow, this morbid material reaches the stomach and propelled by *Udana-Vayu*.

Vamana protocol mainly adopted to remove the aggravated Kapha out of the body and it balances the Kapha Dosha. In Urdhwajatrugata Roga, Vamana Karma is one of the treatment protocols in case of aggravated Kaphaja diseases and in other chronic disease [43]. Main function of Vamana (emesis) is to reduce the Kapha or balancing the Kapha Dosha. In this procedure the Dosha that is Kapha, Pitta and Vata expelled out of the body respectively. It clears the blocked channels of Siro and Indriya. [2] Because of the specific actions of moving upward, the predominant Agni and Vayu Mahabhoota, the morbid materials are expelled out through the oral route.

Virechana alleviates the Pitta and also balances it. There is a chance of electrolytic imbalance because of the induced emesis or purgation. However, it usually does not occur as the Poorvakarma of those procedures involved in Snehana (Sneha pana). It clears the blocked channels of body and cleans *Indriya*^[2]. The predominance of the Prithvi and Jala Mahabhoota and because of their specific actions, they move down wards to expel the morbid materials through the anus. The purgative or laxative drug induces low grade inflammation of the small and large intestine to promote accumulation of water, electrolytes and stimulate intestinal motility. Likewise the Virechana Dravya also causes irritation and inflammation of intestinal mucosa. Thus the mucosal permeability changes and those substances come out to the lumen. The induced inflammation facilitates quick absorption of active principles of the drug in early stage. Later on it facilitate the excretion of the morbid matters through the mucosa of gut. It is possible only because of inflammation increases the permeability of the capillaries, which in turn allow the absorption as well as excretion of such substances^[120].

Basti- Basti is a procedure used to alleviate and balance Vata *Dosha*. It also stimulates the enteric nervous system, provides nutrition and strengthen the nerves. *Niruha Basti*, increases the *Jatharagni*, memory, voice, cures all types of diseases and expelled the vitiated Tridosha out of the body. The *Anuvasana Basti* improves *Bala, Varna, Virya, Jatharagni* and promotes a proper health. In patients with improper functioning *Indriya* (senses), it provides effective results. The *Basti dravya* reaches the *Nabhi, Kati, Parswa-pradesha*, large and small intestine, there it churns the accumulated *Dosha, Mala*, spreads the unctuousness all over the body and comes out along with the *Purisha* and *Dosha*^[121].

The Sodium ion (Na+) present in the *Basti* Dravva in the form of Saindhava Lavana reach the colon and absorbed through the Na+ channel. The drug *Madhu* is the best among the drug vehicles^[122]. The Sneha present in the Basti Dravya, destroy the compact *Mala*, and removes the obstruction in the channels^[2]. The *Sneha* increases the permeability of cell membrane and become helpful in eliminating the Dosha and Mala. *Basti Dravya* provides enteral nutrition. Eternal nutrition is the preferred route because it sustains the digestive, absorptive and immunologic barrier functions of the GIT. There is absorption of usual and unusual substances from the mucosa of the colon under the effect of medication. It eliminates the waste products from the colon. The water-soluble substances may be easily absorbed as the water molecule can move easily in both directions across the mucosal membrane of small and large intestine. The short chain fatty acid also absorbed from the colon, so the fat or lipid of the *Basti dravya* also absorbed^[123].

Nashya- The used drugs of *Nashya* are in the form of liquid or powder (*Kashaya, Swarasa, Choorna* and *Dhooma*). The administered drugs reaches the *Shringataka Marma*, distributed in the *Siro* and in the vessels of eye, ear, nose and throat or oral cavity. It scratches the morbid *Dosha* from supra clavicular region completely^[124, 125]. The drugs absorbed through the nasal mucosa, stimulates the Nervi Terminalis and olfactory nerve-endings of the nasal cavity. *Nashya* expells the *Dosha* out of the *Urdhwajatru* through nasal cavity. Thus, alleviate and balance the Dosha.

Raktamokshana- It balances the *Rakta Dosha*, it also removes the *Avarana*, balance the *Tridosha*, helpful in chronic diseases and helpful, where other treatment

failed to cure or reduce the symptom of the disease. This procedure also helps in healing the chronic ulcer or *Vrana*. In *Shalakya tantra* mainly the *Jalauka* (leech therapy) and *Siraveda* technique is considered.

Raktamokshana removes the impure blood. It balances the aggravated *Pitta-Dosha* as *Rakta* is the seat of *Pitta-Dosha*. It stimulates the liver and spleen as it reduces their work load. It removes the old and damaged blood cells and stimulates their production. It reduces blood pressure and viscosity, reduces stress, and pain. It is very helpful in chronic pain, in *Avarana*, allergy.

Jalaukavacharana is an essential parasurgical procedure in Shalakya Tantra. Leech sucks morbid factors out of the pathogenic area. The saliva of leech contains enzyme Hirudin, which act like an anticoagulant and diuretic. It also has Calin, which prevents blood coagulation. Eglin, hyaluronidase of Leech saliva act as antithrombin, antitrypsin and antichymotrypsin. Thus the swelling and pain reduces. Leech application induces irritant effect on the lesion. which creates new cellular division and removes dead cell layer. Ultimately result in reduction of local swelling and lichenification. It normalizes and improves the capillary circulation. It also acts as immunomodulant. anti-inflammatory. bactericidal, reduces blood pressure and improves endocellular exchange. Hence it enhances the wound healing. Therefore, it is very helpful in chronic wounds[126] and chronic diseases.

CONCLUSION

Shalakyatantra deals with the sense organs of body except the skin. The Doshik Imbalance produces the abnormality in those sense organs. In this condition, Panchakarma therapy is a choice to eliminate and balance the Dosha. After Dosha balance, the Shamana and Brihmana Chikitsa show proper and effective response. Most of the successful Shalaki or Ayurveda physician follows this principle. So increasing and mainstreaming the Panchakarma procedure in Shalakya Tantra will definitely provide an effective and satisfactory result in Urdhwajatrugata disorders.

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