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Adaptability in Lepa Combinations: An Ayurvedic Perspective

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Abstract

Lepa are topical preparations which are applied on the skin for both curative purpose and as daily regimen. Ayurveda explains about the different types of therapies; antahparimarjana (internal cleansing), baahyaparimaarjana (external cleansing) and shastra pranidhaana (surgical procedures). Based on various conditions in both diseased and healthy person, various permutations and combinations of lepa can be done for significant therapeutic effect. The powder used can be coarse or fine in nature; liquid medium for triturating the powder can be either water or alcoholic or unctuous etc, in nature. Even though different types of lepa, lepa dravyas and drava dravyas have been suggested, it is up to the rationality and logic of physicians to make effective combinations of the same. Ayurveda has not named every diseased condition but has put forward diverse possibilities of dosha involvements in manifestation of the same. Hence, this article covers the possibilities of variations that can be made in different lepas in unnamed disease conditions also.

Keywords: Lepa, bahiparimarjana, topical medicament, Ayurveda.

Introduction

In Ayurveda, lepa is one of the bahih parimaarjana chikitsa¹ (external application of medicaments), which is being used in swastha as a daily regimen and in the aatura as a treatment procedure. Lepa can be understood as any topical medicament applied on the body; while specifically in Ayurveda, lepa is considered as paste of medicaments applied on the body. Fresh drugs or dried drugs are used as lepa dravyas. To bring it to the consistency of a paste any liquid media is mixed with the powdered dry drug or pounded wet drug. Based on the condition in which the lepa is applied the thickness and the dravya used varies. Different types of lepa have been explained by different Acharyas in different conditions. The application of the same has been scattered throughout the Samhitas by different Acharyas. This article is put down to comprehend lepa and its effective application as a mode of treatment.

Aim and objectives

Aim : To comprehend the application of *lepa* and discuss the possibilities and variations that can be made in the same.



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Objectives:

- 1. To review and compile concept of *lepa* according to different *acharyas*.
- 2. To generate potential variations in different lepa combinations in unidentified disease conditions.

Materials and methodology

Materials: Literature review

- **Primary source**: Bruhathrayee and Laghuthrayee.
- **Secondary source**: Sanskrit dictionaries like Shabdakalpadruma, Vaachaspatya and Amarakosha, related articles, relevant works on lepa kalpana.

Methodology

All the available literature on lepa was reviewed and critically analysed for its effectiveness in application as a mode of treatment.

Review of literature

Acharya Charaka explains three types of treatments for shareerika dosha as *antah parimaarjana* (internal therapies), *bahi parimaarjana* (external therapies) and shastrapranidhaana¹ (surgical procedures). *Bahih parimaarjana* has been explained as the type of treatment which takes the aid of *spashanendriya* in alleviating the *doshas*. This includes abhyanga, *sweda*, *pradeha*, *parisheka*, *unmardana* etc¹.

Aalepa has been mentioned as the primary upakrama in vrana, and pradhaanatama chikitsa in shopha by Acharya Sushruta³. Acharya Dalhana comments that among all the upakramas of bahiranta pramaarjana, aalepa is the most important one, as it can be applied directly to the target area, superior among all topical applications as it subsides the ailment rapidly³. Acharya Vaghbhata quotes lepa and parisheka subside the vitiated doshas just like water puts the fire out⁴. The concept behind the lepa is samanya and vishesha.

Nirukti:

Bahih parimaarjana

- Bahih means baahyam or external.
- The word *maarjana* means '*maarsht*⁵

According to Shabdakalpadruma,

लिप् + करणे ल्युट् - "लिम्पत्यनेनेति"

Generally, the word *lepa* means 'to smear', 'to anoint', 'to besmear' etc.

Synonyms:

आलेपस्य च नामानि लिप्तो लेपश्च लेपनम $|^7$

• Lepana, Lepa, Lipta, Aalepa, Pradeha

Method of preparation of lepa

- In case of fresh drugs, the selected wet drug is cleaned from foreign particles and taken in a clean mortar and pounded to fine paste with a pestle.
- In case of dry drugs, they are finely powdered and filtered with the help of a sieve. Then with the suggested *drava dravya*, it is triturated to obtain a well ground paste.



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Types of lepa

Charaka	Susrutha	Ashtanga	Ashtanga	Sharangadhara
Samhitha	Samhitha	Hrudaya	Sangraha	Samhitha
32 pradeha	Pradeha	Mukhalepa	Mukhalepa	Mukhalepa
	Pralepa	Doshaha	Doshaghna	Doshagna
	Alepa	Vishaha	Vishaghna	Vishagna
		Varnakrut	Varnya	Varnyakara
		Sheeta	Lepa	
		Ushna	Snaihika	
		Heena	Nirvapana	
		Madhyama	Savarneekarana	
		Uttama	Prasadana	
			Stambana	
			Vilaayana	
			Pachana	
			Peedana	
			Shodhana	
			Ropana	

Acharya Charaka has enlisted 32 churna pradeha which can be adopted to any modes of bahih parimarjana chikitsa.

Sushruta has explained the *lepa* on the basis of thickness

- 1. *Pralepa*⁸ can be (cold), (thin), *vishoshi*(causes dryness) or *avishoshi* (does not cause dryness) and improves *rakta* and *pitta*.
- 2. **Pradeha**⁸ can be either hot or cold, bahalo, abahu, vishoshi, vata shleshma prashamaka, shodhana, healing in nature and cures swelling and pain.
- 3. *Aalepa*⁸ should neither be too thick nor too thin in nature and is used in open wounds, to check the discharge and eliminates slough, pus and thus cleans the wound.

Ashtanga Hrudaya classifies mukha lepa -

On the basis of the intended action of the $lepa^9$

- 1. Doshaha lepa should be 1/4 of an angula
- 2. Vishaha lepa should be 1/3 of an angula
- 3. Varnakara lepa should be 1/2 of an angula

On the basis of the *dosha* involved¹⁰

- 1. *Ushna vatakaphaja* disorders *lepa* should be warm
- 2. *Ati Sheeta pittaghna, vishaghna & varnya lepas* should be very cold.

On the basis of the thickness of *lepa*¹¹

- 1. Heena lepa should be 1/4 of an angula
- 2. Madhyama lepa should be 1/3 of an angula
- 3. Uttama lepa should be 1/2 of an angula



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Ashtanga Sangraha classifies¹²

10 types of *lepa* on the basis of intended action –

Snaihika, Nirvapana, Prasadana, Stambhana, Vilayana, Pachana, Peedana, Shodhana, Ropana and Savarneekarana.

Lepa prayoga in different Ritu:

Ritu	Lepa	
Acc: to Acharya Charaka;		
1. Hemanta	Thick lepa of aguru. 13	
2. Greeshma	Lepa of chandana. ¹⁴	
3. Vasanta	Chandana and aguru lepa. 15	
Acc: to Ashtanga Hrdaya ¹⁶ ;		
1. Hemanta	Kolamajja,vrshaanmoola,shaabaram, gaurasarshapa.	
2. Sisira	Simhimoola, krishna tila, darvi twak, nistusha yava	
3. Vasanta	Darbhamoola, hima, ushira, sirisa, tandula.	
4. Greeshma	Kumuda, Utpala, kahlaara,durva, madhuka, Chandana	
5. Varsha	Kaaliyaka, tila, ushira, jatamamsi, tagara, padmaka	
6. Sarat	Talisa, gundra, pundrahu, yashtimadhu, asana, kasa,	
	nata, aguru	

As part of *dinacharya*, *Acharya Susrutha* has mentioned a *mukhalepa* which has to be applied after *snana*, which imparts strength to the eyes, cheeks and face, removes freckles and boils, thus making the face similar to lotus.¹⁷

The treatment of ulcerous wound includes *vimlapana*, *avasechana*, *upanaha*, *padanakriya*, *shodhana*, *ropana* and *vaikrtapaha*; out of which *vimlapana* includes *bahya parimarjana* methods like *lepa*, *parisheka*, *abhyanga* etc *lepa* form is used in *vimlapana* and *ropana* procedures¹⁸.

Another application of *lepa* has been described in swelling, where it is suggested that ¹⁹:

Type of lepa	Dosa dominance	
Unctuous, amla, lavana, ushna	In vataja shopha	
Sheetala, mixed with milk	In pittaja shopha	
Ushna, mixed with excessive quantity of	In kaphaja shopha	
milk or mutra		

For the treatment of *shopha*, *sapta upakramas* have been suggested, out of which *pachana* and *darana* involves application of lepa²⁰:

Upakrama	Dravyas used for lepa		
Vimlapana	For vataja sopha –		
	Pralepa of matulunga, agnimantha, bhadradaru, mahaushadha, rasna.		
	For pittaja, raktaja, vishaja and agantuja sopha –		
	Durva, nalamula, madhuka, chandana, shitala gana dravya.		
	For kaphaja sopha -		



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	Ajagandha, ashwagandha, sarala, ajashrngi.		
	For sannipataja sopha –		
	Combination of all the formerly mentioned <i>dravyas</i> .		
Pachana	Shana, mulaka, shigru phala, tila, sarshapa, atasi and other ushna dravyas.		
Darana	Chirabilva, agnika, danti, chitraka, hayamaraka, faeces of kapota or grdhra		
	or any kshara vargas.		

Rules for lepa application²¹

- 1. Lepa should be applied in the pratiloma direction.
- 2. Lepa should be removed before getting dried up completely.
- 3. Lepa should be done in daytime for diseases of pitta, rakta, abhighaata and savisha;
- 4. Lepa which has dried up, should not be used.
- 5. *Lepa* should not be applied in several layers.
- 6. Lepa should not be reused.
- 7. Alepa is effective in avidagdha sopha.
- 8. Lepa is done for shodhana purpose in marma pradesha.
- 9. When Sneha is used for lepana,
- a. In *vataja* disorder *Sneha* is to be added 1/4th part of *kalka*.
- b. In *pittaja* disorder- *Sneha* is to be added 1/6th part of *kalka*.
- c. In *kaphaja* disorder *Sneha* is to be added 1/8th part of *kalka*.
- 10. The thickness of the *lepa* should be similar to the thickness of a buffalo skin.
- 11. Alepa should not be applied at night.
- 12. When *lepa* is applied, avoid day sleep, talking, heat rays of sun or other heat sources, sadness and anger.

Why application of lepa contraindicated at night?²²

Local applications done at night may obstruct the transfer of body heat which escapes through the skin pores. Exceptions - *apakva sotha*, *gambhira sotha* and *raktaja* and *sleshmaja sotha*.

Contra indications of mukhalepa (Ashtanga Hrudaya)²³

- 1. Person suffering from Rhinitis, indigestion, lock jaw, loss of appetite,
- 2. One who has been given *nasya*.
- 3. One who had sleepless night.

Examples for lepas -

Type of lepa	Examples
Vishaha	Pinyaka lepa in vatika keeta visha
Doshaha	Madhushigru beeja and dhanyamla
Varnyakara	Rodhradi gana

Examples of special lepas mentioned in Sarangadhara Samhita:

- Doshagna lepa²⁴ Punarnava, devadaru, shundi, Siddhartha, shigru, aaranaala.
- Dashanga lepa²⁵ sirisa, madhuyashti, tagara, raktachandana, ela, jatamaamsi, haridra, daruharidra, kushta, vaalaka, ghee.



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- Dahartinashaka lepa²⁶ vibheetaka phala majja.
- Keetaghna lepa²⁷ langali, ativisha, alabu, jalini, mulakabija, dhanyaambu.
- Lepa in indralupta²⁸ brhati swarasa and honey.
- Lepa in Darunaka²⁹ khakhasa bija and milk.
- *Lepa* in *Palita*³⁰ *triphala* powder, *loha* powder, *dadima twak* powder, *bisa* powder, *bringaraja* powder, goat's milk.
- Lepa to remove unwanted hair³¹ shankha churna, haritaala, manashila, swarjika ksara, water.
- Dhrdeekarana of yoni³² in aged women-plaksha phala, udumbara phala and tila taila.
- In linga vrddhi, stana vrddhi³³ maricha, saindhava lavana, krishna, tagara, brhati phala, apamarga, tila, kushta, yava, masha, aswagandha and honey.
- Vasheekarana lepa³⁴ vaca, sauvarchala, kushta, haridra, daruharidra and marica.

Few examples of Drava dravyas used in lepa preparation

Dhanyamla— used in vatakaphottara condition- vatarakta chikitsa.

- *Madhushigru* seeds etc are made into paste with *dhanyamla*, in conditions of excessive vitiation of vatakapha in vatashonita.³⁵
- *Amla kanjika* or fermented rice water is used in preparing *kolakulathadi pradeha*, advised in *vata* related diseases.³⁶

Mutra –

- Gomutra is mixed with kukkuta purisha, gunja etc and used as an alepa formulation in arshas.³⁷
- In kaphaja visarpa, gomutra is to make kalka of ajagandha etc.
- In udara, devadaru, palaasha, arka etc with gomutra are used to make pradeha.
- Cow's urine is used in making *pradeha* in *kushta*³⁸.
- Lepa made with goat's urine is said to be most effective in arsha chikitsa³⁹.

Sneha dravyas –

• Ghee is used to make *durvaadi kalka* in treatment of *visarpa chikitsa*- as it is ulcer healing.⁴⁰

Based on the Dravya, the types of lepa can be derived from sthavara, jangama and parthiva dravyas

- *Sthavara* includes the herbal drugs used either in fresh or dried form.
- *Jangama* includes the products obtained from animals like, *majja*, *vasa*, *ksheera*, *rakta*, *mutra*, *pitta* etc.
- Parthiva includes the dravyas of mineral origin like manashila, mrit, gandhaka, makshika etc. egmakshika dhatu as lepa in kushta chikitsa⁴¹

Mode of action of lepa42

The *tiryag dhamanis* (vessels moving other than in upward and downward directions) which ends at the skin, absorb the *lepa* with the help of the *virya* of respective drugs and circulate throughout the body. *Acharya Dalhana* explains that *bhrajaka pitta* located in the skin, transforms the abhyangadi application into absorbable form, with the aid of *virya*.

Discussion

When we consider the term 'lepa', the literal meaning is 'smeared on', which means that it can be smeared on a localised part or the whole body. Taking this into consideration, any kind of topical application can



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be placed under *lepa*. Single drug or combination of drugs can be used as *lepa*. *Lepa* is anything which is made into *kalka* (paste) form and used for topical application. K*alka* is made with *ardra* (wet) or *shushka* (dry) *dravya/dravyas* mixed with any *drava dravya* and thus applied as *lepa*.

Comparison of lepa with other topical applications -

- *Malahara* is different from lepa on the basis of the ingredients (base of bee wax, oil and powder of *kajjali/tankana/gandhaka* etc.) used and also it is applied in *Anuloma* direction.
- *Upanaha* is different from lepa, as it involves *bandhana* and also different time period for which it should be applied. *Upanaha* is one of *swedana* procedure and *lepa* is not.
- Avachurnana is different from lepa as there is only dusting of the churna on the body and there is no involvement of kalka.
- Poochu of Siddha medicine has similar preparatory methods.
- The ointments, liniments, gels etc of allopathy have a different base for medicine preparation, specific direction of application is not there and the duration of application is also different.

Understanding the probable mode of action of lepa

Contemplating the theory of *srotomayapurusha*, which states that the whole body is porous, we can understand that the tiryak dhamanis which branch out into hundreds and thousands of channels or vessels, end at root of hair follicles in the skin. This can be considered as pathway for the *doshas* to enable the absorption and metabolism of the drugs applied on the skin. The application of lepa in opposite direction also aids the *lepa* to remain in the applied area due to the presence of the hair follicles. Thus, allowing the internal heat to get trapped by the *lepa* and helping in increasing the temperature beneath the skin and aids the pilosebaceous glands and the capillaries to dilate allowing easy and faster absorption of the medicament. Hence, the reason why *lepa* should be applied in the opposite direction of the hair follicles. The *virya* of applied drug is absorbed through the root of hair follicles present on the skin. The *bhrajaka pitta* in the skin helps in the *pachana* of the applied drug. The *Sukshma*(minuteness) and *chala* (moving) characteristics of *vata* aids in easy transportation and absorption of the *virya* of the drug through the skin. The absorbed *virya* of the drug may act locally or circulate throughout the body by the fast-moving characteristics of *vyana vata*

Kalka form of lepa

Kalka is that which has been triturated to a paste. The fresh and dry drugs are ground to powder or paste, for easy absorption. Reducing the drugs into smaller pieces or grinding it into powder, helps in covering larger surface area of action for each particle of the drug. That is, larger the pieces, smaller surface area covered and smaller the pieces, larger surface area covered. By this, more chemical constituents come in contact with the area of *lepa* application. The size of a sweat pore ranges from 66 microns – 287 microns⁴³ depending on the site of the pore. The size of the fine powder particle is approximated to be less than 100 microns⁴⁴. From this it is understood that if the size of the particles is 100 microns or less than 100 microns, chances are there for it to get absorbed into underlying structures and vessels. This enables easy and effective action of lepa in all condition.

Consistency of kalka for lepa

The application of ushna lepa in vata kaphaja disease is understood by the vishesha siddhanta where



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drugs with opposite qualities are used. Similarly, in *rakta pitta pradoshaja vyadhis, sita lepa* is used. When *Chandanadi lepa* which is cooling in nature, is applied in *slakshna*(fine) and *ghana*(thick) form, it closes the pores of the skin and helps in retaining the heat within the skin layers and also to reach deeper levels of skin, thus providing warmth. In case of *Agaruvadi lepa* which is warming in nature, is applied in *aslakshna*(coarse) and *tanu*(thin) form, does not completely cover the pores of the skin and allows the heat to escape, thus providing a cooling effect. Here, we can understand that irrespective of the *virya* of the *lepa* applied, depending upon the size of the *lepa* particles, ie, coarse or fine, variations can be made in the *lepa* depending upon the condition.

Discussion on rules for lepa application

Lepa should be removed before getting dried up completely, else dried up lepa can cause dryness and wrinkles. Lepa should not be applied at night in swellings as the cool temperature of night will obstruct heat of the swelling and eventually give rise to other abnormalities. Overlapping layers of lepa should not be advised as it can increase the thickness of lepa thereby producing increased heat, pain and burning sensation in the body. Similarly, if lepa is reused, due to absence of useful chemical constituents, it will be ineffective. Thickness of the pradeha (and not the entire lepa types) should be similar to thickness of buffalo skin, which is approximately 0.65cm in thickness.

Drava Dravya used to prepare lepa

The drava dravya is mixed into the fine powder to make it into a paste, so that it acts as a transport medium for the chemical constituents to pass through the skin. Drava dravya used acts as the medium which enables the powdered drug to release its chemical constituents into the same and seep through the pores of the skin to reach the target area. Through this, it is also understood that lepa dravya should be removed after drying up, indicating that there is no further absorption process. Mutra, or mostly cow's urine is used widely in kaphaja conditions of haemarrhoids, herpes like conditions, ascites etc, where sthira, kathina and obstructive nature of dushya and doshas are presented. Sthira guna of kapha is broken down by the strong action of mutra. Dhanyamla is mainly used in vataja conditions, where due to its hot property, it brings down cold property of vata dosha. In vatarakta with more of kapha dushti, ushna guna of dhanyamla brings down the cold nature of both vata and kapha. Tikshna guna of dhanyamla helps in breaking down guru and sthira gunas of kapha dosha. Ghrta used as drava dravya in visarpa enables bringing down hot, sara and sharp properties of pitta dosha. Shlakshna nature of ghee facilitates healing of affected area.

Understanding the classification of lepa

Pralepa is thin application as it is used in *rakta pitta pradosha* conditions. If the thickness of *pralepa* is more, it can increase the hotness of that area and lead to further vitiation of the *pitta*. **Pradeha** is thick layered and used in *vatakaphaja* conditions. The thick layer of the *lepa* helps in retaining the hotness of the affected part, thus aids in subsiding *vata* and *kapha dushti* conditions. **Aalepa** is of intermediate thickness and is used for superficial action on the affected area. **Daurgandhyahara pradeha**(lepa which removes bad body odour) acts at the level of *medas* because of thickness of *lepa* which imparts hotness that reaches deeper levels of *dhatu*, hence *pradeha* is suitable for subsiding cold property of *vata* and *kapha*. **Sarivadi lepa** in *visarpa* is applied as *pralepa* as it acts on *pitta* and *rakta* to reduce burning sensation and intense pain.



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The classification -vishagna, doshagna and varnyakara mukha lepa is on the basis of the intended action -doshagna – doshahara drugs used, vishagna – vishahara drugs used, varnyakara – drugs which enhances and restores the normal tone and lustre of skin. In doshagna lepas the virya of the drug and the drava dravya used to make the kalka are responsible for the prakupita doshas to subside. For example, in pain due to vatakaphaja vatarakta, madhusigru beeja mixed with dhanyamla is used to make the kalka, as it is vatakaphahara in nature. Thus, action of doshagna lepa is understood. Pinyaka lepa applied in vatika keeta visha, is vatahara in nature. The ushna veerya of the pinyaka increases pitta dosha which in turn subsides the vitiated vata. Thus, action of vishagna lepa can be understood. Rodhradi gana is mixed with the appropriate drava dravya, based on the dosha, which are dosha shaamaka and rakta prasadaka in nature is used. Thus, action of varnyakara lepa is understood.

From these examples, it is understood that *doshaha lepa* are generally either *pralepa* or *pradeha* or *alepa*, based on the *dosha* involved. *Vishagna lepa* are generally *pralepa*. As for *varnyakara lepa*, it is used for *rakta prasadana* and *dosha shamana*. Hence it can be inferred to be either *pralepa* or *alepa*. Here also, if *sotha* is present, then *pradeha* can be used.

Types of *lepa* acting on layers of skin

When each layer of skin is considered, mode of action of *lepa* used in *mukhalepa* is limited upto the *avabhasini* layer due to the influence of *bhrajaka pitta*.

Pralepa is used in *Tilakalaka* and *vyanga*, two common conditions which occur in the second layer, *lohita*. They are *vata paittika* in nature.

Alepa is used in Ajagallika, which is of kaphashonita in nature and occurs in swetha layer and hence as it is intermediate in thickness, ie, not very thin for kaphaja involvement and not very thick for rakta involvement. Since rakta involvement is there, fine paste cannot be used as it might retain the heat thus causing more vitiation.

Pralepa is used as the *samanya lepa* chikitsa in *visarpa* (occurring in the *vedini* layer), as it is of *paittika* in nature. Fine paste *lepa* should not be used as it can retain heat and cause more vitiation.

Pradeha is used in shushka arsas as it is vatakaphaja in nature. Pralepa is used in ardra arsas as it is raktapittaja in nature. Arsas is the most common disease occurring in the last layer, mamsadhara.

Layers	Common	Dosa	Type of <i>lepa</i> to be used
of skin	diseases	predominance	
	occurring		
Lohita	Tilakalaka	Vata paittika	Pradeha with coarse, ushna virya dravya OR
	vyanga.		pralepa with fine, sita virya dravya.
Swetha	Ajagallika	Kapha shonita	Pradeha with coarse, ushna virya dravya OR
			pralepa with fine, sita virya dravya.
Vedini	Visarpa	Paittika	Pralepa with coarse and sita virya dravya.
Mamsad	Arsha	Shushka arsas –	In shushka – pradeha with fine and ushana
hara		vatakaphaja.	virya dravya.
		Ardra arsas –	In ardra – pralepa with coarse and sita virya
		raktapittaja	dravya.

The ten types of *lepa* in *Ashtanga Sangraha* is classified on the basis of their mode of action. *Snaihika lepa* should be done with *sneha bahula* or *kevala sneha dravyas* for subsiding the dryness, roughness and



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pain of the affected area. "sneha bahula" can be understood as the amount of sneha added to the *lepa* dravya. In vataja condition 1/4th part sneha is added and the *lepa* applied would be pradeha. In pittaja condition 1/6th part of sneha is added and the *lepa* would be pralepa. In kaphaja condition 1/8th part of sneha is added and the *lepa* would be pradeha.

Discussion of lepa usage in vrana and sopha

Based on the nature of the *shopha*, *kalka dravyas* have been given. In this scenario also, *pralepa* which are *sheeta* in nature can be used for *pittaja*, *raktaja*, *abhighataja* and *vishaja* type of *shopha*; *pradeha* which are *ushna* in nature can be used for *vataja* and *kaphaja* type *shopha*. In *vimlapana*, *pachana* and *ropana* treatments, *lepa dravya* choosen and thickness of *lepa* applied should be with respect to type of *doshas* involved. In *vimlapana*, suggested *lepa* should be applied in order to soften the area. Since the objective of *lepa* before *vimplapana*, is for softening; it facilitates affected area to be squeezed for bringing out the *shalya* or puss. *Pralepa* has been suggested throughout, but with a variation in the *dravyas* based on doshas.

Understanding effectiveness of dravadravya through comedogenic value:

According to comedogenic rating enlisted in Beneficial Botanicals⁴⁵ (information collected from Journal of American Academy of Dermatology), comedogenic (tendency to block the pores of the skin) value of:

- Castor oil is 1.
- Sesame oil is 2.
- Bees wax is 2.
- Coconut oil is 4.

Higher the comedogenic value, more the more the retention of heat. Therefore, based on the above, for *vataja* condition, *sneha* which has higher value of comedogenic value and fine paste *lepa* can be used as *pradeha* for better insulation of pores and thus retaining heat within the skin. As for *pittaja* condition, *sneha* which has least/moderate value of comedogenic value and coarse *lepa* can be used as *pralepa*, which does not cause closure of skin pores and thus regulating the temperature of underlying part. In *kaphaja* condition, unctuous *dravya* with moderate comedogenic value and coarse paste *lepa* can be used as *pradeha* or *alepa* to facilitate insulation and also prevent complete closure of pores.

Nirvapana lepa will be mostly pralepa in nature as it aids in subsiding pitta dushti of affected areas by the madhura or kashaya rasa, sita and snigdha guna. When this lepa is used in rakta dushita avastha, it is termed as prasadana lepa which helps in rakta prasadana and hence, pralepa in nature. When lepa helps in ceasing or reducing the excessive bleeding, it is called as stambhana lepa, because of their kashaya or katu rasa, guru, sita, sukshma, sthira, ruksha, slakshna and manda guna. Therefore, stambhana lepa is primarily pralepa in nature. Vilayana lepa helps in dissolving gratitha, kaphaja and medoja vrana, by the lavana or amla rasa, tikshna, ushna gunas. Hence, it is understood to be pradeha in nature. Pachana lepa transforms the vrana to pakavastha due to the lavana or amla rasa, ushna, tikshna guna. Hereby, understood to be pradeha in nature. Peedana lepa helps in squeezing out the pus or vitiated dushyas by dilating the opening of the vrana and forcing out the pus by the lavana or amla rasa and tikshna, sukshma and ushna gunas. Shodhana lepa should be done to clean slough and dead skin from the affected region by the dravyas which are kashaya rasa, laghu and ruksha. It can be inferred to be Ropana lepa which is used to heal the vrana by the madhura, kashaya and tiktha rasa rasa and snigdha, sita guna



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pradhana dravyas. Lastly, the *savarneekarana lepa* for bringing back the normal colour of the healed *vrana* by the *tikta*, *lavana* and *katu pradhana rasa dravyas*, *ushna virya*, *sara*, *tikshna guna*.

Extent of action of the lepa

Lepa is used for localised action as it is coming under bahih parimarjana chikitsa, ie, since there is no interaction with the jatharagni, it is understood to be of localised action. The action of lepa can extend to different layers of skin. This can be understood by the different types of vyadhis mentioned in different layers of twak. The virya of the drugs applied helps in entering through the romakoopa and permeate through different layers of the twak based on the requirement. For example, in case of sidhma, manashiladi lepa is used, where the drug has to reach the third layer of the skin and do the necessary therapeutic action. In case of vishahara lepas, its action is both local and overall bodily action. Overall bodily action is probably due to the virya, vipaka and prabhava of the drugs applied, which acts upon the deranged doshas. With the help of virya of the drug, it reaches the target area and with help of vipaka, required action takes place to correct the vitiated dosas, thereby the dushyas or affected tissues.

Conclusion

Lepa, even though is used as a general term for topical medicament, in Ayurveda it is paste of either fresh or dry drugs ground with drava dravya. Lepa is included under bahih parimarjana chikitsa as it has no interaction with jatharagni. Lepa is prescribed according to the yukti of the physician, on the basis of the doshas involved. The necessary dravyas are triturated to either a fine paste or coarse paste based on the involvement of doshas and layers. Application of lepa in pratiloma direction facilitates the entrapment of internal body heat and thus facilitating easy absorption of medicine, through the dilated capillaries. The types of lepa are based on the thickness of the lepa and action of the drugs. In all vata kaphaja conditions, pradeha will be used and in rakta pitta conditions, pralepa is used. The fine powder used in lepa helps in better insulation, while coarse powder reduces too much heat insulation. Hence, they are used in vatakaphaja and raktapitta conditions respectively. Based on the yukti of the Vaidya, combinations and permutations of thickness, liquid medium, powder, type of drugs etc can be done in preparing lepa for more effective outcome.

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