APPLICATION OF AGADA PRINCIPLES IN THE MANAGEMENT OF SKIN DISORDERS

Abstract

The Ayurvedic concept of Dooshivisha holds good for the present-day food and lifestyle where exposure to chemicals and toxins is unavoidable and even the food chain is entangled with pesticides, fertilizers and various processing agents. These low potent poisons produce systemic and metabolic diseases when they get precipitating factors, among which skin diseases are most common.

The beauty of Agadatantra lies in its unique way of approaching the diseases, focusing mainly on the Nidaanaas while treating. These may be any of the factors that the person is getting exposed since the Garbhavastha. The etiological diagnosis also rules out the skin manifestations due to visha, Jangama visha and Sthaavara visha which helps in treating the effectively saving time and disease unnecessary intake of excess medicines. So rationality lies in the selection of the agadaas and shamanoushadhis in the management of these diseases. Few of such cases along with their causes, diagnosis and management are discussed here to understand the concepts of

Keywords: Dooshivisha, Garavisha, Agada, Skin diseases

Agada and their application in managing

Authors

Dr. Mahesh P Savalagimath

Professor
Department of Agadatantra
KAHER's Sri. B.M Kankanawadi Ayurveda
Mahavidyalaya
PG Studies & Research Center
Belagavi, Karnataka, India.
vaidyamaheshps@gmail.com

Dr. B Sreenivas Prasad

President Board of Ayurveda New Delhi, India.

Dr. Santosh F Patil

Assistant Professor Department of Agadatantra KAHER's Sri. B.M Kankanawadi Ayurveda Mahavidyalaya PG Studies & Research Center Belagavi, Karnataka, India.

skin disorders.

IIP Series, Volume 3, Book 10, Part 5, Chapter 4

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Chemicals and toxins in present day food and lifestyle including environment is undeniable fact which causes assault to body. Food chain is entangled with these residual or altered pesticides and fertilizers may it be vegetables, grains, fruits to meat (broilers) which is dosed with several drugs and cattle with hormones for high yield of milk. Food is made attractive with additives, artificial colors and preservatives in the name of permissible limit but goes as unidentifiable etiology for skin, immune and many other disorders. To add on, anirrational use of medicaments and environment painted with different toxins has undesirable effect on health. This scenario has been mentioned in Ayurveda, where in low potent poisons of artificial origin called as Garavisha gain entry to body and act as Dushivisha.

Dushivisha is state where any low potent poison (vegetable, mineral and animal origin)can stay in the body for several years and cause diseases on getting precipitating factors. Dushivishaaccumulated in Amashaya causes kapha&vaata disorders and in pakwaashaya causesvaata& pitta disorders which may then lead toorgan specificity, for example by affecting shukracausesbeeja dosha, by affecting Rakta causes Kushta and so on. It can be inferred that Dushivisha patients may suffer from liver disorders, GI disorders, urinary disorders or reproductive disorders etc depending on the nature and type of poison. It may also manifest as an allergic condition mostly of skin or respiratory system. Most of the occupational disorders seen in persons working in places where chances of exposure to chemicals, heavy metals etc. suffer from several disorders which can be considered and treated effectively as dushivishajavikaaras. Prolonged and injudicious medication may also develop as dushivisha.

I. ASSESSMENT OF EXPOSURE TO ETIOLOGY:

In the diagnosis of any disease usually three kinds of diagnosis are made.

- 1. Clinical diagnosis
- 2. Morphological diagnosis
- 3. Etiological diagnosis

Clinical diagnosis refers to the assessment of clinical presentation and analysis of dosha involvement and dominance. Morphological diagnosis refers to understanding the extent of the disease, where one can assess the part affected and the duration etc. Etiological diagnosis is the search for causative factors of the disease and it should be done very carefully, as the selection of treatment largely depends on this and there by the success of the treatment.

In any skin condition we can make etiological diagnosis in two headings.

- Exposure before birth
- Exposure after birth
- Local exposure
- Systemic exposure
- **1. Exposure before birth:** These factors can be treated as Garbhopaghatakara bhavas, where it is said that if mother gets exposed to disease specific etiologies before

conception or during fertilization or in early post fertilization period, the offspring will suffer from those specific diseases or will get Kha vaigunya(susceptibility) suitable for specific diseases. Here not only mother, but father is also responsible by contributing (like) dushta shukra. Both parents play important role in the causation of diseases to their children. To establish this we will discuss two cases.

2. Case 01: A 12 years male child approached with the complaints of multiple skin lesions like bullae, vesicles and erythema all over the body gradually in episodic fashion since one and half month after birth. History dissection said child's elder siblings are apparently healthy, no specific Antenatal history by mother that was specific to contribute for the etiology. But a formal history from paternal side gave an edge to existing condition of child. Father was diagnosed as epileptic 6-8 months prior to conception of this child and underwent anti-epileptic and anti-anxiolytic therapy. So it may be derived that patient's condition can be caused by the shukradusti due to drug.



Figure: 01

3. Case 02: A 3 years female child was brought with complaints of vesicles and pustules associated with oozing, itching and general weakness. It was told that the baby started developing pustular lesions over abdomen and back between 15th to 20thdays of birth. Gradually severity increased and availed contemporary treatment regularly but the complaints were recurring veryoften. History reveled that there was no specific family element of skin diseases in both mother and father, even the elder child of couple was

healthy. Antenatal history of mother lauded that during her 3rdmonth;shemet with an accident and had fracture of right tibia. She underwent surgical repair and treatment with analgesics and antibiotics for more than two and half months. So it may be considered

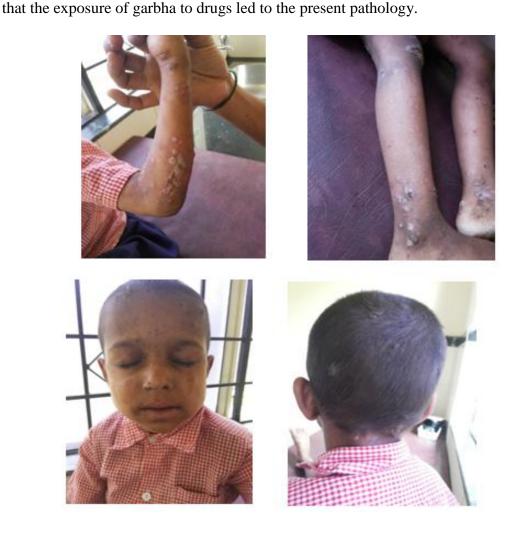


Figure: 02

- **4. Exposure after birth:** When a patient comes with particular skin manifestations, the dermatologist should always search for the type of exposure so that one can plan the treatment as well as do's and don'ts.
- 5. Local exposure: Very often it is believed in the practice that some chemicals or substances produce skin diseases as a result of allergy and the patient is treated symptomatically. Hence asked to avoid the substances/chemicals to which he/she is allergic. Scientifically this should not happen as we understand the allergy caused by chemicals/substances is not exactly by itself, rather it is because of the environment in one's own body, which is brought about by various etiological factors. When we see the indications of Bhallataka, it is suitable for Vaata-Kapha dominant diseases and people.

While same is contraindicated in Pitta dominant disease and Pitta prakruti people, because it acts adversely or like visha to them. This is not because for Bhallataka, but it is the body's composition or environment that is not suitable for Bhallataka. Hence people develop complications, but at the end Bhallataka is regarded as drug causing

- 6. Systemic Exposure: As discussed earlier the present day etiologies namely Dushivisha and garavisha that are gaining entry into body through toxicated food, water and air etc affect the body's ability to prevent disease manifestation, which is brought about by Oja, which is the prime target of any type of Visha. Individuals ability to adapt for changes in food, climate etc is altered/affected and lands into conditionof Vikaravighataabhava, this makes even the minimal etiologies to cause disorders and in this context skin diseases. This systemic exposure itself determines the effect of local exposure and hence the severity of the skin manifestations.
- **7.** Etiological diagnosis can also be made by understanding morphological findings of Skin manifestations as mentioned in the context of Paduka visha, Abharavishaetc. Even accessories like footwear's or jewelry if contaminated with chemical or poison can develop skin manifestation over the contact area like dorsum of feet or wrist etc. This goes on to say that wherever the offending agent comes in contact with skin there it will cause skin manifestations.

If low potent toxins either natural or artificial origin vitiates blood then these will cause skin manifestations presenting as Kitibha, Khota etc.

These poisons have specificity in causation of various diseases like some cause Psychological/Psychiatric disorders, few cause speech disorders, others cause GI disorders, Reproductive disorders etc. This gives clear picture about their organ specificity. It is said if they affectshukra, then will cause diseases in offspring, if affect Rakta then will cause Kusta(skin manifestations).

These clinical manifestations explained in the context of Dushivisha or Garavisha cannot be seen in all types of toxin/poison exposures but depends on specific toxin and its affinity to tissue. Many scientific studies have shown that exposure to pesticides in low doses is common and this can cause neurological and reproductive disorders.

Similarly another study says that Daughters whose mothers took DES (Diethylstilbestrol is a synthetic estrogen) (about 1 million or more between 1960 and 1970) suffer reproductive organ dysfunction, abnormal pregnancies, a reduction in fertility, immune system disorders, and periods of depression.

As it is very clear here that some low potent poisons affect shukra thengarbhadeveloped by that shukra will develop diseases either in the intrauterine life or after birth. Similarly skin manifestations can occur by affecting rakta dhatu. Another study of environmental factors like pollution exposure in preconceptional, prenatal and postnatal period showed that chemicals can cause allergic disorders like eczema in offsprings.

adverse effects.

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Skin manifestations not only caused by Sthavara visha (poisons of vegetable and mineral origin) but even several venoms (poisons of animal origin) also cause skin manifestations, as most of insect bites and stings mainly present with skin manifestations. To highlight this one can consider Loothavisha clinical presentations, as it is explained that Loothavisha presents with wheels, rashes, pustules, vesciles, discolorations, oozing, itching, fever, etc. It is also explained that the discharge from these skin manifestations produces new lesions on the healthy parts of the body when it comes in contact.

II. TREATMENT

Etiological diagnosis is important in successful management of any skin manifestation caused by poison because selection of etiologic specific Agadas or medicaments depends on it. Once the etiological diagnosis is established, clinical diagnosis will help to assess the dominance of dosha and treatment protocol.

Protocol framed then will be falling like Agada or Vishaharaoushadhi for etiology and Shamana for dosha modulation which includes kashaya, churna and external modalities like pariseka and tail application.

But the principle of protocol should be and carefully framed with medicines having vishara property or indicated in visha conditions (ex: patolokaturohinyadikashaya) or least they should not be contraindicated in visha conditions.

In general the following Doshivishachikitsa is adapted when skin manifestations are caused by the exposure to Low potent poisons or toxins. Dushivisha patients should be administeredSwedana followed by Vamana or virechana or both¹⁰. As such there is no mention of Snehapaana for Dushivisha, but depending on the clinical presentations one has to decide whether snehapana is to be done or not.

If the patient presents with Vaata dominant lakshanas then snehapaana is to be done, if the patient presents with increased Kleda (kaphautklesha) and haveuttamabala (strength), then one can do abhyanga and swedana followed by suitable shodhana i.e. vamana. Same is followed for Pitta utklesha conditions and virechana is done. Also in this context only Vamana and Virechana are mentioned, but by considering the general treatment principles of Kushta one can opt for Raktamokshana.

If the patient presents with Vaata dominant chronic skin manifestation with reduced bodily strength then one should choose to do Snehapaana by selecting appropriate ghrita (internally taila is contraindicated in visha condition as it potentiates visha), then abyanaga and swedana followed by appropriate shodhana. Vamana is adopted inKapha dominant and Virechanain Pitta or Vaata dominance. Commonest used ghritas are Kalyanakaghrita, Tiktakaghritaand Mahatiktakaghrita, but guggulu containing ghritas are usually avoided as the teekshna properties of guggulu may aggravate the condition by potentiating low potent visha.

Acute skin manifestations as a result of exposure to Visha are very often cured or managed by shaman therapy alone and/or along with Sadhyahshodhana like Vamana, Virechan, Raktamokshana whichever is suitable for the presenting condition. In acute

manifestations Snehapana is not done, in such condition sadhyahshodanais done as the doshas will be in Utklishtaavastha and they can be easily eliminated by appropriateshodhana. In such conditions if one plans for Snehapana which takes 3 to 7 days, during that period itself the disease may get aggravated and management becomes difficult.

III.LET US DISCUSS FEW CASES

1. Case number 01: 18 years male approached with complaints of pustules, discharge, local odema, discoloration and severe itching over dorsum of both foot over a month. History revealed that it started after having new footwear and diagnosed as paduka visha dermatitis). This was considered as vishaja and showedsannipatajalakshana with pitta-kaphja dominance (pustules, discharge, local odema and itching). Internally Bilwadi agada and Patolakaturohinyadikashaya was used while externally pariseka with Lodrasevyadikashaya followed by Nalpamaraditail application was done for 15 days. Later to this treatment nearly all complaints subsided except vaatalakshana (dryness & hyperpigmentation), hence for this Kalyanakaghruta was advised at shaman dose of 10 ml on empty stomach, Dushivishari agada twice daily after food with honey and Eladi tail for external application for 15 days. One month of vishaharachikitsa relieved all complaints.



Before treatment



After treatment

Figure: 03

2. Case Number 02: A female aged 21 yrs approached with the complaints of recurrent skin peeling as very thin layers over face, trunk and extremities, associated with itching and discolouration from the age of nine. She experienced such peels not less than 10 episodes per year. Detailed history gave an incident of infection at age of eight and treated with injection penicillin for which she developed instant allergic urticarial rashes all over the body and was managed immediately by conventional medication, but she started to develop peeling of skin on most parts of the body which gradually increased. For this sheunderwent conventional treatments but was futile. She also revealed that it gets aggravated in rainy season, exposure to cold climate, eating cold things, food having additives (artificial food colours, taste enhancers, flavours etc.) and by taking antipyretics and analgesics. Based on the history, etiologically it was diagnosed as vaata pitta dominant (skin peeling and discoloration) skin manifestation caused by Dooshivisha (aggravates on exposure to vishavardhaka bhava as explained above). In contemporary medicine the condition was entitled as Erythema Annulare Centrifugum. This patient was

treated successfully on the basis of Dushivisha and for last 07 yrs patient is completely free from the said complaints even after exposing to above detailed aggravating factors. The patient was undertaken for virechan with Tiktakaghritasnehapana, Eladi tailaabhyanaga followed by swedana. Later she was kept on Dushivishari agada with honey and Haridrakhanda thrice a day for a period of six months with 20 days medication and 10 days gap during entire 6months.







After Treatment

Figure: 04

3. Case Number 03: A male patient aged 42yrs farmer by occupation came with the complaints of vesicles over dorsum of left foot around the ankle extending upto midleg with serous discharge, pain, itching and swelling over left lower limb. This was associated with loss of sensation over left foot and first three toes since 8 months. Similar lesions over medial aspect of right leg with mild itching and oozing since own week. Notable incidence was expressed by the patient saying that within a day new lesions would appear wherever the discharge of vesicles came in contact with fresh skin and hence always tried to keep the lesions dry. Etiology of unknown bite and morphological presentation diagnosis was made as Loota visha (wherever the discharge from these skin manifestations comes in contact produces new lesions-A.Hru.U.37/58) while conventional diagnosis was Erythema Nodosum leprosum and treated priorly with Dapsone, Rifampicin and clofazimine for more than 3months and there was no relief from the complaints, instead they increased.

Dashanga agada indicated in keetavisha and Patolakaturohinyadi Kashaya (15 ml) was given 4 times a day along with Triphalakashayapariseka followed with Parantyaditaila application externally twice daily for 08 days. Later to this when Pittakaphajalakshan came down (reduced discharge, itching and swelling) Dashanga agada was replaced by Bilwadi agada keeping other medications same for next week. Patient started to experience pain over the region of foot where loss of sensation was complained in first visit. After 2 visits Pitta-kaphjalakshana came down completely and treatment was continued with KalyanakaGhrita 10 ml on empty stomach, Bilwadi agada thrice daily

after food internally and Eladi tail for (indicated for twakprasadana and kanduhara) external application for next 15 days. Post to this Loota vishachikithsa normalcy of sensation over foot was restored and relief of other complaints.

Before treatment Before Treatment Before Treatment Before Treatment Before Treatment

Figure: 05



After Treatment



After Treatment



After Treatment

4. Case Number 04: A male patient aged 39 working as tourist driver approached with sudden onset of redness, small reddish papules over both upper and lower extremities spreading up to lower abdomen, severe burning sensation, mild persistent fever and odema over both lower extremities since 4-5 days. The condition was associated with headache, thirst and generalized weakness. On local examination there were few necrotic circular lesions of size less than 0.5 cm suggesting of some insect bites. History directed towards an insect bite while touring the clients in Dandeli forest safari and by the same evening he developed above complaints which flared in 2-3 days. Consulted conventional physician but no relief was found and went on to be diagnosed as Leukocytoclastic vasculitis. As per Agadatantra the morphological and etiological diagnosis was Keeta visha and treated successively and successfully. As the lesions were Sannipatajawith Pittakaphapradhanata (burning sensation, peeling skin and odema) Patolakaturohinydaikashaya 10ml five times a day along with Dashanga agada four times a day internally and Erythaila (indicated in sarpavishachikitsa in kerala tradition) was given as external application for first two days. By day 3 of admission the complaints subsided (redness, odema and fever came down) and patient was taken for sadyovirechana with Avipattichurna, where patient had 7 vegas and once blood stained stool. Next morning complaints of redness, burning sensation, swelling and fever were disappeared except the vata dosha lakshana like multiple joints pain and kostarukshata (indicted by blood stained stool). For the vatalakshanwe adopted Tiktakaghruta 10ml once in the morning on empty stomach with hot water and Bilwadi agada thrice a day after food for next 03days along with Nalpamaraditaila for external application. After this course of medication patient become completely free form the complaints.







Before Treatment

Before Treatment

After Treatment

Figure: 06

5. Case number 05: A farmer by occupation aged 50 years complained of raised erythematic circular lesions all over body including oral and anal mucosa, itching, burning sensation, scaling with mixed presentation of dry and pus formation, multiple joint pain and generalized weakness since 3 years. Associated with constipation and loss of appetite. Patient's previous medical history was strong indication for development of existing condition. He had taken over the counter medication (self mediation) for his previous complaints of pustular acne lesions over face and back which actually again aggravated the condition. For this he consulted local physician and received few oral and intravenous medications which after 4 days developed severe skin reactions/allergy as mentioned above. He neglected these for month and then experienced skin lesions all over the body. Consultation at peripheral center diagnosed condition as Erythema Multiformae a condition caused due to hyper sensitivity reaction. According to Ayurveda the condition was diagnosed as Dooshivishajanya Pitta-Kaphaja Kusta (itching, burning sensation and erythematic circular lesions) and Dooshivishachikitsa was adopted. The patient was first treated with Patolakaturohinyadikashaya 15ml four times along Dushivishari agada 1gm four times a day internally and Triphalakashayaseka and Nalpamaraditaila as external modalities for 5 days. After developing good appetite patient was taken for Virechanawith Tiktakaghritasenhapana for 5days followed by abhyanga with Nalpamaraditaila and Triphalakashayaseka (as Sweda) for three days and virechana was done by giving Trivrutleha. After shodana the patient was put Nimbadikashaya and Bilwadi agada internally (for pitta-kapha shaman and raktaprasadana) Nalpamaraditaila for external application for 15 days. By the end of follow up medication more than 60% relief was seen. Once again virechana was done with same protocol and same medicines were continued with addition of Tiktakaghritha (For vata shaman and ojavardhan) 10ml on empty stomach with hot water for next 20days. Since then patient is completely free from all the complaints and has not developed any further allergy to conventional medicines that he took for common illnesses thereafter till date.







Before Treatment



Before Treatment

Figure: 07





Before Treatment

After Treatment





After Treatment

After Treatment

IV. RATIONALITY OF SELECTION OF AGADAS & SHAMANA FORMULATIONS

Management of any disease having poisons or toxins as the causative factors irrespective of high potency or low potency one should give importance to Oja or Bala , as poisons are told to act adversely over it. Hence treatment not only includes correcting disease but to nurture oja. As a reason one has to include all dosage forms and drugs having vishahara property which can protect oja and increase bala.

In skin diseases commonly prescribed Agadas are Dooshivishari agada, Bilwadi Agada and Dashanga Agada. Considering the ingredients of these mentioned agadas it can be said that Dooshivishari agada is Soumya yoga, Bilwadi agada is moderately teekshna yoga and Dashanga agada is most Teekshna among the three agadas mentioned here.

Generaly it is thought that when skin conditions are severe in nature then soumyayogas are prescribed or chosen, but on contrary in skin manifestations caused due to poison or toxin exposure, which are acute and severe in nature one should give teekshnayogas. For example, Loothavisha which is Pitta dominant tridoshaja condition presenting with pitta pradhanalakshanas like srava and dahaetc, agada used is Dashanga agada. This is teekshna among mentioned three agadas, though independently the ingredients of this formulation are said to be Pitta vardhaka, here by virtue of its Prabhava it reduces the clinical manifestations of visha. Whereas for modulating the dosha, kashayas are given along with any agada.

Kashayas can be chosen as explained here, when there is increased Kleda and Srava we can chosePatolakaturohinyadikashaya along with the agada, if burning sensation is more then Chandana Parpatakadikashaya is opted, if jwara is associated then Amritottarakashaya is to be given, if Kleda and Kandu are dominating then Aragwadadi Kashaya is to be given, in the same way if Shotha is dominating then one can opt for Punarnavadikashaya. In this way along with agada, suitable shaman yogas can be selected, even more than one kashaya or shamana yoga can also be given.

Clinically Dooshivishari agada has been found effective in chronic skin manifestations with less pitta and kapha dominance, like in Urticaria, Chronic eczema, dermatitis, and other allergic skin manifestations.

Bilwadi agada is found to be effective in pitta dominant conditions even with discharge, itching, fever and swelling. It can be effectively used in vesiculo bullous presentations like Herpes, Acute dermatitis, Eczema, bites and stings induced skin manifestations etc. Bilwadi agada and Dashanga agada have also been found effective in preventing secondary infections in skin diseases like cellulites etc.

Among externally used yogas, Lodrasevyadi yoga, explained in the context of Loothavisha is also used for external application as Lepa or kashaya Seka other than internal administration. It is seen that it prevents further spread of the lesions, reduces burning sensation, oozing, itching and helps for faster healing of the skin lesions. Panchavalkadi Kashaya which is also considered to have vishahara property has been used as seka in conditions having more Pitta dominance along with Kapha, this helps in reducing excessive srava, Daha, kandu and enhances the faster healing of skin manifestations. Triphalakashaya is the next most commonly used formulation. It is used as Seka in skin conditions presenting with mild kleda and srava.

After seka,tailas are used for external application and commonest is Nalpamaraditaila, because of its kashayapradhanatait is used inconditions associated with itching and mild oozing. Panchavalakaladitaila is used when there is more discharge and burning sensation. When severe Pitta dominance presentations are seen Paranthyaditaila, which is explained in the context of Mandalisarpadamshachikitsa of Prayogasamucchaya, is found to be every effective. In the same way Erythaila, an oil preparation used by Traditional Visha vaidyas of kerala, is used in skin manifestations which are severe in nature also caused by potent bites and stings. For Vaata or Vaatakaphaskin manifestations likedryness, discolouration and itching Eladi taila is to be used. Pitta-Kapha dominant skin manifestations after treatment

come down as Vaata-kaphja or vaatjaand hence there also at end Eladi taila can be used for external application.

Usually at the end of the treatment when one feels that all the skin manifestations have reduced, the patient should beadministered with ghritayogas Kalyanakaghrita, Tikataghrita and Mahatiktakaghrita. This ghrita administration can be done for a period of 15 days or 30 days or as per the yukti of Vaidya, duration can be decided. The selection of the ghrita is to made byconsidering the dosha dominance and the nature of the disease and also therasayana properties of the ghrita. Kalyanakaghrita is best used when there isvaata and raktadushti is seen, it helps to restore the bodily strength, cures Visha of all origins and also nurishes Oja. It helps for correction of discolouration and also helps to overcome the mental stress that patient willbe having. Tiktakaghrita and Mahatiktakaghritaare best utilized in the Pitta dominantconditions, both help to subside the Pitta which might not have been eliminated completely during shodhana. Even if the condition is managed by only agada&shamana therapy, there also these ghritas are used effectively to counterPitta&Vaata vitiation. These ghritas also prevent further vitiation of Pitta and Vaata, improve pigmentation, and prevents further infections and simultaneously help to improve Bala and Oja.

One more important issue is the time of administration of medicines, classically repeated administration of medicines is advised for visha conditions and the same is followed in all skin manifestations caused due to exposure to Visha. While such administrations patient should be carefully observed periodically as clinical manifestations change faster and hence one should note those changes and shamanayogas can be revised or entire treatment protocol is to be revised. For example when Aragwadadikashaya is given with some agada in kleda and kandupradhana condition, after 10 to 15 doses of medication the presentation usually changes to Vaata-Pitta dominance and hence Guducchyadikashaya or any other Vaata-Pitta hara shaman yoga is to be administered. In the same way if Teekshna agada is given in the beginning after 10 to 15 doses that can also be changed to milder ones as explained above.

V. CONCLUSION

The etiological diagnosis plays important role in the management of any disease. Present day life style, food style and environment clearly defines that each and every disease has one or other toxic (Visha) etiology. Based on the type of visha and its nature one has to assess clinical presentation, nature of disease (acute, chronic etc.) and dosha presentation one has to select agadas along with suitable shaman yogas.

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