WORLD JOURNAL OF PHARMACEUTICAL RESEARCH

SJIF Impact Factor 8.084

Volume 11, Issue 10, 218-228.

Review Article

ISSN 2277-7105

A PRACTICAL APPROACH OF SHATKRIYAKALA IN ANNAVAHA SROTO VIKARA DIAGNOSIS

Dr. Bhumika Saxena¹*, Dr. Sowmysashree U. P.² and Dr. Gopala Krishna G.³

- ¹Post Graduate Scholar, Department of Kayachikitsa, Sri Sri College of Ayurvedic Science and Research, Bengaluru, Karnataka.
- ²Associate Professor, Department of Kayachikitsa, Sri Sri College of Ayurvedic Science and Research, Bengaluru, Karnataka.
- ³Professor and HOD, Department of Kayachikitsa, Sri Sri College of Ayurvedic Science and Research, Bengaluru, Karnataka.

Article Received on 23 May 2022,

Revised on 13 June 2022, Accepted on 03 July 2022

DOI: 10.20959/wjpr202210-24824

*Corresponding Author Dr. Bhumika Saxena

Post Graduate Scholar, Department of Kayachikitsa, Sri Sri College of Ayurvedic Science and Research, Bengaluru, Karnataka.

ABSTRACT

Introduction: Understanding the etio-pathogenesis of a disease through a riveting concept of "Kriyakala" plays an important role in diagnosis, practical understanding of disease process and thereby management. The diseases like Amlapitta and Grahani are one of the most common diseases of Annavaha Srotas which are dealt in daily practice. Hence, the present review deals with process of diagnosing Annavaha Sroto Vikara in light of Shatkriyakala concept. Materials **And Methods:** For the present study, classical texts of *Ayurveda*, case studies of Amlapitta and Grahani were referred to understand the practical aspect of Shatkriyakala. **Result:** In the diseases of Annnavaha Srotas like Amlapitta and Grahani, detecting the particular disease

stage through its symptoms in accordance to Shatkriyakala is appreciated in the present study. **Discussion:** In the initial three stages of *Shatkriyakala*, diagnosis of a disease cannot be established but with the help of its symptoms based on *Doshas*, early identification can be made and disease progress can be ceased. As the disease establishes in the further stages of Shatkriyakala, symptoms of Amlapitta and Grahani can be practically employed to diagnose the exact stage of the disease and thereby to plan the treatment.

KEYWORDS: Shatkriyakala, Annavaha Sroto Vikara, Amlapitta, Grahani.

INTRODUCTION

Early diagnosis helps in the management of a disease during its early stages. Hence, knowing the etio-pathogenesis of the disease plays an important role. In *Ayurveda*, a riveting concept of *Kriyakala* has been put forward to understand the disease process.

The term *Kriyakala*, also known as *Chikitsa Avasara* is the time denoting the necessity of treatment. The term *Shatkriyakala* is comprised of 3 words namely, '*Shat*' meaning the number six, '*Kriya*' referring to the action or treatment and '*Kala*' denoting the time period. Thus, *Shatkriyakala* represents the six stages of disease process and the appropriate time period to take measures for the management of it.

In *Ayurveda*, the root cause of all the diseases is said to be *Mandagni*.^[1] Hence, the *Dushti* of *Annavaha Srotas* can be appreciated either directly or indirectly in almost all the diseases. The most commonly encountered diseases of *Annavaha Srotas* in daily practice are *Amlapitta* and *Grahani*, and applying the knowledge of *Shatkriyakala* can play an important role in diagnosing, practical understanding of each stage in disease process and thereby its management.

OBJECTIVES

- To re-evaluate the concept of *Shatkriyakala* and discuss it in purview with *Annavaha Sroto Vikara* diagnosis.
- To understand the *Samprapti* (pathogenesis) of a disease with respect to *Shatkriyakala*.
- To understand practical approach of *Shatkriyakala* for the diseases *Amlapitta* and *Grahani*.

MATERIALS AND METHODS

The present study is based on the review of *Shatkriyakala* with its practical applicability (case studies). Data related to *Shatkriyakala*, *Annavaha Srotas*, *Amalpitta* and *Grahani* were collected. The main *Ayurveda* texts used for the study are *Charaka Samhita*, *Sushruta Samhita*, *Ashtanga Hrudaya* and *Madhava Nidana*. Case studies of *Amlapitta* and *Grahani* were referred to understand the practical aspect of *Shatkriyakala* concept.

CONCEPTUAL REVIEW

Concept of Shatkriyakala

Acharya Sushruta has introduced the unique concept of Shatkriyakala in the chapter Vranaprashna, where he had explained the consecutive stages of disease manifestation, its complications and preventive measures during each stage to overcome from it.

Kriyakala indicates the specific time for the therapeutic intervention which is of 2 types, Ritu-Kriyakala and Vyadhi-Kriyakala. The Ritu Kriyakala deals with normal physiological variations of the *Doshas* (humours) in the respective seasons. They are subdivided into 3 stages namely, Sanchaya, Prakopa and Prasara. The second type i.e Vyadhi Kriyakala deals with the consecutive stages of a disease process. Vyadhi Kriyakala, also termed as Shatkriyakala consists of six stages which are Sanchaya, Prakopa, Prasara, Sthana Samshraya, Vyaktavastha and Bhedavastha.^[2]

1. Sanchaya

The first stage of Shatkriyakala is the Sanchaya, in which due to Nidana Sevana (etiological factors) the aggravated Doshas starts getting accumulating on their own sites. [3] The main responsible cause for this is Trividha Hetu i.e Asaatmya Indriyaartha Samyoga, Parinama and Pragnaaparadha. [4] During this stage the person fells grievance from the Chaya Karana (causative factors) and desires for the things with opposite properties to that of aggravated Dosha. [5] Apart from this specific symptoms related to the aggravated Dosha are also noted which are explained in the Table 1.

2. Prakopa

Prakopa is the second stage of Shatkriyakala. During this stage the previously accumulated and stagnated Doshas on their respective sites, tends to get circulated to other sites. Acharya Sushruta has quoted that the aggravated Doshas will be in liquefied form and tends to leave their own site during this stage. [3]

The general causes mentioned for this stage involves unhealthy lifestyle and the specific causes are related to individual *Dosha Prakopa*. The specific *Dosha* related symptoms during this stage are mentioned in Table 1.

3. Prasara

It is the third stage of *Shatkriyakala* during which the migration of the *Doshas* takes place. During this stage the aggravated *Doshas* leaves their original site and starts spreading to other parts of the body. [6] Vayu is said to be the main responsible factor for the movement of Doshas due to its Rajo Guna.^[7] The symptoms according to individual Doshas during Prasaravastha are explained in Table 1.

4. Sthana Samshraya

The fourth stage of *Shatkriyakala* where localization of *Doshas* takes place is *Sthana Samshraya*. Due to continuous indulgence of etiological factors, the vitiated *Doshas* settles down to one place where *Srotovaigunya* is present and *Dosha-Dushya Sammurchana* takes place. ^[8] At this point the manifestation of a disease occurs and the *Purvarupa* i.e prodromal symptoms of that particular disease are elicited. ^[9]

5. *Vyakta*^[10]

The fifth stage is the *Vyaktavastha* in which all the sign and symptoms of a disease are manifested along with its types.

6. Bheda

It is the most advanced and last stage of *Shatkriyakala*. During this stage, due to *Deergha Kalanubandha*^[11] i.e. chronicity of the disease, *Upadrawa* (complication) is seen. If these complications are not addressed during this stage, then the disease will become *Asadhya* (incurable).

Table 1: Doshika symptoms in Sanchaya, Prakopa and Prasara stages of Shatkriyakala.

Kriyakala	Symptoms
Sanchaya	Vata – Stabdha Poorna Koshthata
	Pitta – Peetaavabhaasata, Mandoshmata
	Kapha – Gauravam, Alasyam
Prakopa	Vata – Koshta Toda, Sancharana
	Pitta – Amlika, Pipasa, Paridaha
	Kapha – Hridaya Utklesha, Annadwesha
Prasara	Vata – Vayorvimarga gamana, Atopa
	Pitta – Osha, Chosha, Paridaha, Dhoomayana
	Kapha – Arochaka, Avipaka, Angasada, Chardi

Samprapti and Shatkriyakala

In general the *Samprapti* (pathogenesis) of any disease can be understood with the help of *Shatkriyakala* (figure 1). The pathogenesis of the diseases of *Annavaha Srotas* like *Amlapitta* and *Grahani* are explained in the figure 2 in accordance with *Shatkriyakala* which helps in evaluating the stage of the disease and planning the treatment.

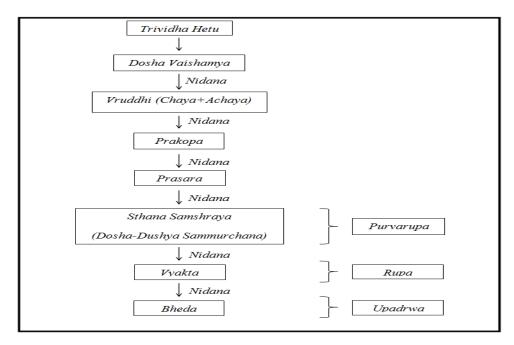


Figure 1: Samprapti according to Shatkriyakala.

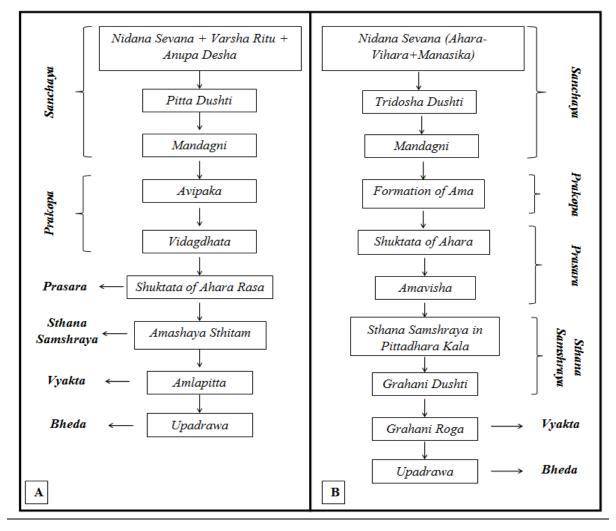


Figure 2: A- Amlapitta Samprapti; B- Grahani Samprapti.

Management with respect to Shatkriyakala

The management of a disease is planned in congruence to the different (or particular) stages of Shatkriyakala. During the initial three stages i.e. Sanchaya, Prakopa and Prasara, the treatment is planned on the basis of *Dosha* dominance as the disease is not established yet. This is because the *Dosha-Dushya Sammurchana* wouldn't have happened till Prasaravastha. As the disease is established during the Sthana Samshraya and is depicted with its prodromal symptoms, *Ubhayashrita Chikitsa* i.e implication of both the treatment protocols related to *Dosha* and particular disease has to be employed. During the *Vyakta* and Bheda stages, the condition has to be treated according to the mentioned Chikitsa Sutra (treatment protocol) of the disease (table 2).

Table 2: Management in different stages of Shatkriyakala.

Stage	Management		
Canalana	Chaya Karana Vidwesha		
Sanchaya	Nidana Parivarjana		
	Alpa Dosha – Langhana	Dogles Dustressiles	
Prakopa	Madhyama Dosha – Langhana-Pachana	Dosha Pratyanika Chikitsa	
_	Prabhuta Dosha – Shodhana	Cnikusa	
Prasara	Sthanantara Dosha Chikitsa (treatment according to		
	site of <i>Dosha</i>)		
Sthana	Along with the <i>Dosha</i> , treatment of <i>Dushya</i> with	Ubhaya Aashrita	
Samshraya	respect to its site to be added.	Chikitsa	
Vyakta	Specific line of treatment of the particular disease Viadli Praticular		
Bheda	Along with the disease management, complications	Vyadhi Pratyanika Chikitsa	
	should be treated	Спікніза	

Annavaha Sroto Vikara

Annavaha Srotas are considered as one of the major Srotas as they helps in transportation and transformation of Anna (food), hence nourishing the Uttarotara Dhatus. Acharya Charaka has mentioned Amashaya and Vamaparshva as Moola (origin) of Annavaha Srotas whereas Acharya Sushruta has described Amashaya and Annavahi Dhamani. The Annavaha Srotas gets vitiated due to the reasons like Atimatra Bhojana (excess eating), Akala Bhojana (irregular food timing) and Ahita Bhojana (intake of unhealthy food items). [12] The sign and symptoms seen in Annavaha Sroto Dushti are-

- Annabhilasha, Arochaka, Avipaka and Chardi^[13]
- Shoola, Anna Dvesha, Chardi, Pipasa, Andhya and Marana^[14]

DISCUSSION

In the initial three stages of Shatkriyala namely Sanchya, Prakopa and Prasara, diagnosis of a disease cannot be established as Dosha-Dushya Sammurchana has not taken place. But the symptoms according to the predominance of the Doshas can be elicited in the first three stages. The symptoms which can be commonly seen in Annavaha Sroto Dushti mentioned in Ayurveda classics and during the clinical practice can be merged together for better understanding the disease stage (table 3). In the further stages of Shatkriyakala i.e Sthana Samshraya, Vyakta and Bheda, the disease gets established and the symptoms of Amlapitta and *Grahani* can be appreciated during these stages (table 4).

Table 3: Symptoms manifested during Sanchaya, Prakopa and Prasara stages of Annavaha Sroto Dushti.

Symptoms	Sanchaya	Prakopa	Prasara
Symptoms according to	Mandoshmata	Annadwesha	Arochaka
classics in Annavaha	Gaurava	Hridaya Utklesha	Avipaka
Sroto Dushti	Alasya	Amlodgara Pipasa	Chardi Atopa
Common clinical	Bloating of abdomen, heaviness, indigestion, loss of appetite,		
complaints	generalised weakness, excessive burping, sour belching		

Table 4: Symptoms of Amlapitta and Grahani in Sthana Samshraya, Vyakta and Bheda stages.

Shatkriyakala stage	Amlapitta	Grahani
Sthana Samshraya	Purvarupa are not elicited in this particular disease.	Purvarupa like- Trishna, Alasya, Balakshaya, Vidaho Annasya, Pakashcha Chirata etc will be seen.
Vyakta	Common symptoms like <i>Avipaka</i> , <i>Klama</i> , <i>Utklesha</i> , <i>Tika-Amlodgara</i> , <i>Hrid-Kantha Daha</i> and <i>Aruchi</i> . [15] Symptoms according to different types like <i>Urdwaga</i> and <i>Adhoga Amlapitta</i> will be elicited.	"Pakvam Va Sarujam Pooti Muhurbaddham Muhurdravam" [16] Trishna, Arochaka, Praseka etc can be seen. [17] Symptoms of different types of Grahani will also be appreciated.
Bheda	Upadrawa like Jwara, Atisara, Pandu, Shoola, Shotha, Aruchi and Bhrama.	Upadrawa- Jwara, Shotha, Shoola, Hikka, Vamana, Shwasa, Pandu, Pralapa.

Practical approach of Shatkriyakala

The practical applicability of detecting the disease stage with the help of symptoms described during each stage of Shatkriyakala can be appreciated with the help of following case studiesCase study 1 – A 36 years old male patient came to our OPD with complaints of sour belching, headache, bloating of abdomen, burning sensation over chest region associated with pain in abdomen, small rashes and heaviness of the body. The present stage of the disease was *Vyaktavastha* and the disease was diagnosed as *Urdhwaga Amlapitta*. The detailed timeline of the disease course and its relation with *Shatkriyakala* is mentioned in table 5. The condition was managed with *Shodhana* procedure followed by *Shamana* line of treatment.

Shodhana (Virechana)

- First 3 days: *Chitrakadi Vati-* 2TID before food with warm water.
- 4th day 7th day: *Snehapana* with *Sukumara Ghrita* in the increasing dose of 30ml, 60ml, 90ml and 120ml respectively, early morning, empty stomach with hot water.
- 8th day- 11th day: *Sarvanga Abhayanga* with *Ashwagandha Bala Lakshadi Taila* followed by *Bashpa Sweda* for 4 days
- 12th day: Virechana with Trivruth Lehya 45gms with 100ml of Triphala Kashaya as Anupana.

Shamana

- Shankha Vati 2TID (Before food)
- Tab. Gasino 1TID (After food)
- Tab. Anuloma DS- 1HS (at bed time)

The patient showed good improvement with reduction in the complaints of sour belching, burning sensation over chest region, bloating and pain in abdomen.

Table 5: Disease course of Amlapitta with Shatkriyakala (case study 1).

Clinical symptoms	Duration	Probable Kriyakala	
Loss of appetite (used to skip dinner)	April 2019	Sanchaya	
Indigestion Bloating of abdomen		Prakopa	
Sour belching (on/off)		Prasara	
Continuation of etiological factors			
Along with above symptoms he developed mild	Echmiomy 2020		
headache and burning sensation over chest region & February 2020		Sthana Samsharaya	
abdomen (on/off)			
Continuation of etiological factors			
Increased frequency and severity of sour belching,		Unalstanaatha	
headache, bloating of abdomen, burning sensation	September 2020	Vyaktavastha Diagnosis-Urdwaga Amlapitta	
over chest region associated with pain in abdomen,			
small rashes and heaviness of the body		Атирина	

Case study 2 – A 65 years old female patient complaining about frequent loose stools (7-8 times/day; 2-3 times in a month) associated with bloating and pain in abdomen, loss of appetite, nausea, headache and weakness came to our OPD. The disease course in relation with Shatkriyakala is described in the table 6. The current state of the disease was Vyaktavastha and the case was diagnosed as Vataja Grahani. Kala Basti was planned with Takra Basti as Niruha and Anuvasana with Changeriyadi Ghrita. The oral medications given were-

- Chaturbhadra Kwatha 25ml BD (Before food) with warm water
- Tab. Eladi vati- 2 BD (Before food)
- Tab. Brahmi vati- 1BD (After food)
- Tab. Nodys- 2 SOS

Patient showed improvement with reduction in the symptoms like-frequency of loose stools, bloating and pain in abdomen, nausea and headache.

Table 6: Disease course of *Grahani* with *Shatkriyakala* (case study 2).

Clinical symptoms	Duration	Probable Kriyakala	
Loss of appetite		Sanchaya	
Generalised weakness	January 2019	Prakopa	
Heaviness of the body		Prasara	
Continuation of etiological factors			
Along with above complaints, indigestion	Oatobor 2010	C4h an a Camahnana	
and bloating of abdomen	October 2019	Sthana Samshraya	
Continuation of etiological factors			
Frequent loose stools (7-8 times/day- 2-3	December 2019		
times in a month) associated with –		Vyakta Diagnosis- Vataja Grahani	
bloating and pain in abdomen, loss of			
appetite, nausea, headache and weakness			

From the above two case studies, the practical approach of Shatkriyakala with respect to the disease can be appreciated. Implying the clinical aspect of Shatkriyakala in accordance with the particular stage of a disease helps in-

- Establishing the early diagnosis by the symptoms elicited in each stages.
- Planning the management in accordance with disease stage.
- Thereby improving the prognosis

CONCLUSION

Early diagnosis and early intervention is the sole message of the Shatkriyakala concept. In the diseases of Annnavaha Srotas like Amlapitta and Grahani, the role of Shatkriyakala is appreciated in detecting the particular disease stage with the help of its symptoms. If the treatment of a disease is not initiated at appropriate time (early or late) it may result in bad prognosis even that of curable diseases. Hence, the practical approach of *Shatkriyakala* plays an important role not only in diagnosing but also in managing any disease.

REFERENCES

- 1. Vagbhata, Ashtanga Hridaya, Shastri HS, editor, Nidana Sthana, 12/1, Varanasi: Chaukhamba Surbharati Prakashan, 2007; 513.
- 2. Sushruta, Sushruta Samhita, Acharya YT, editor, Sutra Sthana, 21/36, Varanasi: Chaukhamba Surbharati Prakashan, 2008; 106.
- 3. Sushruta, Sushruta Samhita, Acharya YT, editor, Sutra Sthana, 21/18, Varanasi: Chaukhamba Surbharati Prakashan, 2008; 103.
- 4. Agnivesha, Charaka Samhita, Acharya YT, editor, Sutra Sthana, 11/43, Varanasi: Chaukhamba Surbharati Prakashan, 2008; 76.
- 5. Vagbhata, Ashtanga Hridaya, Shastri HS, editor, Sutra Sthana, 12/22, Varanasi: Chaukhamba Surbharati Prakashan, 2007; 195.
- 6. Sushruta, Sushruta Samhita, Acharya YT, editor, Sutra Sthana, 21/32, Varanasi: Chaukhamba Surbharati Prakashan, 2008; 105.
- 7. Sushruta, Sushruta Samhita, Acharya YT, editor, Sutra Sthana, 21/28, Varanasi: Chaukhamba Surbharati Prakashan, 2008; 104.
- 8. Sushruta, Sushruta Samhita, Acharya YT, editor, Sutra Sthana, 21/33, Varanasi: Chaukhamba Surbharati Prakashan, 2008; 105.
- 9. Agnivesha, Charaka Samhita, Acharya YT, editor, Nidana Sthana, 1/8, Varanasi: Chaukhamba Surbharati Prakashan, 2008; 194.
- 10. Sushruta, Sushruta Samhita, Acharya YT, editor, Sutra Sthana, 21/34, Varanasi: Chaukhamba Surbharati Prakashan, 2008; 106.
- 11. Sushruta, Sushruta Samhita, Acharya YT, editor, Sutra Sthana, 21/35, Varanasi: Chaukhamba Surbharati Prakashan, 2008; 106.
- 12. Agnivesha, Charaka Samhita, Acharya YT, editor, Vimana Sthana, 5/12, Varanasi: Chaukhamba Surbharati Prakashan, 2008; 251.

- 13. Agnivesha, Charaka Samhita, Acharya YT, editor, Vimana Sthana, 5/8, Varanasi: Chaukhamba Surbharati Prakashan, 2008; 250.
- 14. Sushruta, Sushruta Samhita, Acharya YT, editor, Shareera Sthana, 9/12, Varanasi: Chaukhamba Surbharati Prakashan, 2008; 386.
- 15. Vijayarakshita, Srikanthadatta, Commentator, Madhava Nidanam of Madhavakara, edited by Tripathi Brahmanada, 51/2, Varanasi: Chaukhamba Prakashan, 2013; 226.
- 16. Sushruta, Sushruta Samhita, Acharya YT, editor, Uttara Sthana, 40/171-2, Varanasi: Chaukhamba Surbharati Prakashan, 2008; 709.
- 17. Agnivesha, Charaka Samhita, Acharya YT, editor, Chikitsa Sthana, 15/53, Varanasi: Chaukhamba Surbharati Prakashan, 2008; 517.