ISSN (Online): 2455-3662
EPRA International Journal of Multidisciplinary Research (IJMR) - Peer Reviewed Journal
Volume: 10| Issue: 7| July 2024|| Journal DOI: 10.36713/epra2013 || SJIF Impact Factor 2024: 8.402 || ISI Value: 1.188

CONCEPTUAL REVIEW OF *PAKSHAGHATA*

Sahana T.N[1] Divya P[2] Saranya K[3]
PG Scholar[1] , Hod and Professor [2] Assistant Professor[3]
Department of Roga Nidana Evam Vikruthi Vignyana
Sri Dharmasthala Manjunatheshwara College of Ayurveda and Hospital Hassan

ABSTRACT
All three Brihatrayi texts emphasize the significance of Vatavyadhi due to its involvement in complex multiple aetiologies and Pathogenicity. Pakshaghata is one such Vatavyadhi characterized by symptoms such as loss of strength/weakness in half of the body loss. Specific Nidana for Pakshaghata is not extensively detailed; it is generally considered that Samanya Vatavyadhi Nidana contribute to its manifestation. Detailed explanations of symptoms, prognosis, and treatments are elucidated by all Acharyas. In contemporary medical science, based on clinical observation, it can be likened to cerebrovascular disease. This article aims to compile existing data from classical texts on Pakshaghata

KEYWORDS: Pakshaghata, Pakshavadha, Ekanga Roga, Stroke

INTRODUCTION

Pakshaghata is one of the *Vataja Nanatmaja Vyadhi*. The term Pakshaghata is derived from "*Paksha*" meaning half side of the body and "*Aghata*" indicating injury, thus denoting loss of function in one side of the body. When both sides are affected, it is referred to as *Sarvanga Vata*[1].

From contemporary medical science perspective, it is analogous with hemiplegia a condition often resulting from a stroke. Non-communicable diseases, such as cardiovascular diseases, cerebrovascular accidents, and neoplasms, are increasingly prevalent among adults worldwide. According to the World Health Organization (WHO), cerebrovascular accidents alone affect approximately 15 million people globally each year, resulting in 5 million deaths and leaving another 5 million individuals with permanent disabilities[2].

The term 'stroke' is related to the Greek word apoplexia which implies being stuck with a deadly blow. Apoplexia was an umbrella term used for describing a condition in which patient had a sudden abolition of all activities of mind with the preservation of the pulse and respiration[3]. The term **Stroke** is defined as rapid onset of focal neurological deficit, resulting from disease of cerebrovasculature[4]. A **Transient ischaemic attack** [TIA] denotes complete recovery of such a deficit within 24 hours[5], whereas **Completed stroke-** If the focal deficient is persistent and not worsening and **Evolving stroke** -If the focal deficit continues to worsen after about 6 hours from the onset[6]. Based on pathological changes stroke can be classified as Ischemic stroke, Haemorrhagic stroke and lacunar stroke[7]

REVIEW AND DISCUSSION

Nidana

There is a limited explanation of specific *Nidana* for *Pakshaghata*. It is considered that *Samanya Vatavyadhi Nidana* will also be responsible for manifestation of *Pakshaghata*. For better understanding *Nidana* can be categorized under different domains such as *Aharaja, Viharaja*, *Abhighataja*, *Manasika Nidana* which are explained by Acharyas.

In Sushrutha samhitha and Astanga *Hrudaya* specific *Vata Vyadhi Nidana/ Pakshaghata Nidana* is not available hence *Vata Dosha Prakopa Karana* can be considered

- ***Aharaja***

	C.S[8]	S.S[9]	A.H[10]	A.S[11]	M.N[12]	B.P[13]
Ruksha	+	+	+	+	+	+
Sheeta	+	+	-	+	+	+
Alpa Ahara	+	-	+	+	+	+
Laghu Ahara	+	+	-	+	+	+
Abhojanat	+	+		-	+	+
Katu Kshaya Tikta sevana		+	+	+		+
Intake of *Suska Shaka, Vallura, Varaka, Uddalaka, Koradusa, Syamaka, Nivara, Mudga, Harenu, Kalaya, Nishpava*	-	+	-	-	-	-
Vishamashana, Adyasana	-	+	-		-	-
Intake of water while hunger				+	-	-

ISSN (Online): 2455-3662
EPRA International Journal of Multidisciplinary Research (IJMR) - Peer Reviewed Journal
Volume: 10| Issue: 7| July 2024|| Journal DOI: 10.36713/epra2013 || SJIF Impact Factor 2024: 8.402 || ISI Value: 1.188

- ***Viharaja***

	C.S	S.S	A.H	A.S	M.N	B.P
Ativyavaya	+	+	+	+	+	+
Atiprajagara	+	+	+	+	+	+
Plavana	+	+	-	+	+	+
Atiadhva	+	-	-	+	+	-
Ativyayama	+	+	-	+	+	+
Atichesta	+	-	-	+	+	-
Dukha Shayana Asana	+	-	-	-	+	-
Divaswapna	+	-	-	-	+	-
Vegadharana	+	+	+	+	+	+
Abhighata	+	+	-	+	+	+
Marmaaghata	+	+	-	-	+	-
Balavat Vigraha	-	+	-	+	-	-
Atiadhyayana	-	+	-	-	-	-
Pradhavana	-	+	-	-	-	-
Prapatana	-	+	-	+	-	-
Bhara Harana	-	+	-	+	-	+
Physical excretion due to riding animals like Elephant, Horse etc	+	+	-	+	+	-
Atibhasana with loud pitch	-	-	+	+	-	-

- ***Manasika***

	C.S	S.S	A.H	A.S	M.N	B.P
Chinta	+	-	+	-	+	+
Shoka	+	-	+	+	+	+
Krodha	+	-	-	-	+	-
Bhaya	+	-	+	+	+	+

- **Iatrogenic cause**

	C.S	**S.S[14]**	**A.H**	**A.S**	**M.N**	**B.P**
Vishama Apachara	+	-	+	+	+	-
Ati Asruk Sravana	+	-	-	+	+	+
Atidosha Sravana	+	-	-	-	+	+
Raktamokshana done in *Atiushna kala, Athisveditha* person, and physician negligence	-	+	-	-	-	-
Langana	+	-	-	-	-	-

- ***Anya[15]***
  - *Ama*
  - *Dhatukshaya*
  - Afflicted with the other disease for long term

Purvarupa

- *Avyakta Lakshana*[16]- No clear manifestation of the premonitory symptoms

Madhukosha commentary explains that due to instability of *Vata* there is absence *(Apaya)* of *Lakshana* such as *Sthamba Sankocha Kampa*[17]

ISSN (Online): 2455-3662
EPRA International Journal of Multidisciplinary Research (IJMR) - Peer Reviewed Journal
Volume: 10| Issue: 7| July 2024|| Journal DOI: 10.36713/epra2013 || SJIF Impact Factor 2024: 8.402 || ISI Value: 1.188

RUPA

Lakshana	**C.S[18]**	**S.S[19]**	**A.H[20]**	**A.S[21]**	**M.N[22]**	**B.P[23]**	**Sh[24]**
Chesta Nivruti in half part of the body	+	+	+	+	+	+	+
Sandhibandha Vimokshana	+	+	+	+	+	+	+
Vak Sthamba	+	-	-	-		-	-
Ruja	+	-	-	-	+	+	-
Daha	-	-	-	-	+	+	-
Santapa	-	-	-	-	+	+	-
Murcha	-	-	-	-	+	+	-
Saithya	-	-	-	-	+	+	-
Shotha	-	-	-	-	+	+	-
Gurutha	-	-	-	-	+	+	-
Vichetana	-	+	+	+	+	+	+
Akarmanya	-	+	+	+	+	+	+
Achetana	-	+	-	-	-		-

- ***Akarmanya means***

Akarmanya Irshathkarmakshaya[25] [loss or reduced movement of body parts]

Akarmanya Irshath Chesta Akshama[26] [Inability to even minute activities]

- **Vichetana refers**

Vichetanamalpachethana Irshathsparshadhijnana Anityarthaha[27] [Decreased conscious and sensory function]

- ***Achetana*** – *Achetana Alpachena*[28]

Bheda[29,30,31]

1.*Vata Pittaja*

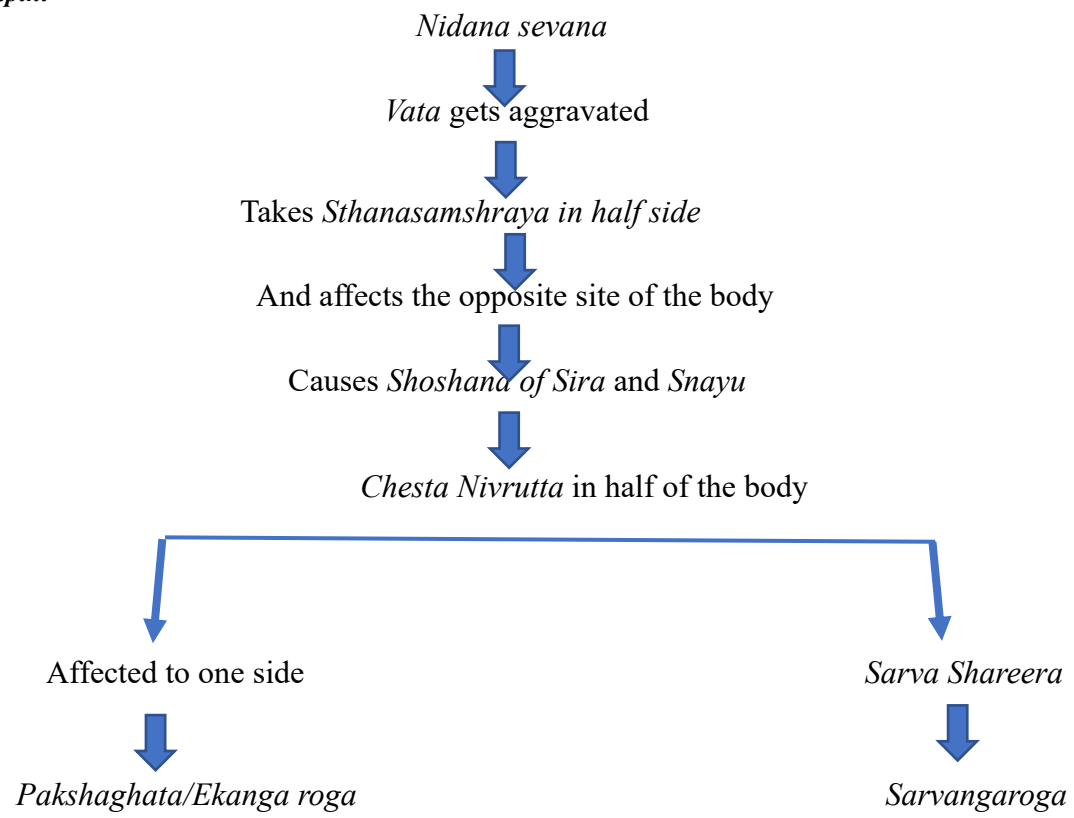
2. *Vata Kaphaja*

Lakshana [32,33]

Vata Pittaja – Daha, Santapa, Murcha

Vata Kaphaja – Saithya, Shotha, Gurutha

Sampraptihi[34]



ISSN (Online): 2455-3662
EPRA International Journal of Multidisciplinary Research (IJMR) - Peer Reviewed Journal
Volume: 10| Issue: 7| July 2024|| Journal DOI: 10.36713/epra2013 || SJIF Impact Factor 2024: 8.402 || ISI Value: 1.188

Sadya Asadyata [35,36,37,38]

- *Sadhya* if patient is *Balavan,* absence of *Upadrava*, recent origin (*Nava*) with careful and proper treatment
- If it is *Vata* is associated with other disease

Asadhya

- If involvement of only *Vata Dosha* [*Shuddha Vata*]
- Caused due to *Kshaya*
- In *Garbhini, Sutika, Bala, Vruddha, Ksheena*, in haemorrhagic indivduals,
- Loss of sensation in the affected side [39]

***Pathya Ahara* and *Vihara*[40]**

Ahara

- *Mamsa rasa, Kshira, Snehayukta Ahara*
- Fruits and food substance which contain *Lavana* and *Snigdha Guna*

Vihara

- Gentle pressing of body with *Kukuma, Ela, Tagara, Patra,*
- Thick coverings made up of Silk, wool, Cotton
- *Nivata Pradesha* with adequate sunlight
- Soft bed for sleeping, Residing in underground cellar
- Exposure to heat and fire
- Following *Bramacharya*

***Apathya Ahara* and *Vihara*[41]**

Ahara

- *Chanaka, Kalaya, Nivara, Venu, Kurvanida, Churna of Shyamaka, Kodrava, Rajmasha, Mudga, Yava, Jambhu, Kaseru, Trunakam, Kranukam, Mrunala, Nishphava beeja, Talaphala asthi Majja, Shaluka, Tinduka, Shimbi, Udumbara,*
- *Sheeta Ambu, Virudha Anna, Shushka Pala , Kshoudra, Kahaya Tikta Katu Rasa*

Vihara

- *Jagarana, Vega dharana, Ativyayam, Ativyavaya, Atishayana, Athi chankramana*

Manasika

- *Chinta*

Chikitsa

- According to Charaka Samhita, the approach includes Charaka *Sneha Yukta Swedana* and *Virechana*[42].
- Sushruta Samhita outlines a treatment regimen starting with *Snehana, Swedana* followed by *Mrudu Shodhana*, *Anuvasana* [with *Bala Taila*], *Asthapana Basti, Sirobasti, Anutaila Taila* for *Abhyanga, Salvana Upanaha* and Periodic *Shodhana* for 3 to 4 months *[Virechana*- after fortnight of *Vamana, Anuvasana Basti*- After a week of Virechana, *Niruha Basti*- after *Samyak Lakshana* of *Anuvasana Basti]*[43]
- According to Astanga Hrudaya and Astanga Sangraha treatment protocol includes *Snehana Swedana, Mrudu Virechana, Basti* [specially *Anuvasana Basti* with *Bala Taila*][44,45]

CONCLUSION

Nidana Panchaka is fundamental in understanding of illness, Providing essential insights into diagnosis, prognosis and treatment. All *Brihatrayi* and *Laghuthrayis* offer detailed explanations for *Lakshana, Samprathi, Sadya Asadyata Chikitsa* for *Pakshaghata* specific *Nidana* is not mentioned, generally *Vatavyadhi Samanya* Nidana which includes different domains such as *Aharaja Viharaja Manasika Nidana*. Due to the lack of specific *Purvarupa Lakshana* early diagnosis and prevention pose significant challenges. Treatment initiation should thus prioritize early intervention to mitigate complications. Based on the clinical presentation it can be analogous with cerebrovascular accident a leading cause of death among non-communicable diseases. cerebrovascular accidents remain a critical public health concern due to their debilitating impact and mortality risks. Advances in diagnostic techniques and treatment modalities continue to improve outcomes, yet challenges remain in addressing risk factors such as hypertension, diabetes, and lifestyle choices. Continued research into preventive strategies and rehabilitation efforts is imperative to reduce the global burden of cerebrovascular accidents and improving the quality of life for affected individuals.

REFERENCE

1. *Acharya JT, editor. Charaka samhitha by agnivesha, Chikitsasthana; Vatavyadhichikitsa: Chapter 28, Verse 53-55. Reprint edition 2021. Varanasi: Chaukhambha orientalia, 2021; p.619.*
2. *M. Graber, L. Baptisite, S. Mohr, C. Blanc-Labarre, G. Duptont, M.Giroud et al. A review of psychological factors and stroke: A new public health problem. J.neurol.2019 May 24;175(10):686-692.*
3. *Copland AP, Thapar A, Qureshi IM, Jenkins H, Davies AH. The definition of stroke. J. R.Soc.Med. 2017 Jan 13;110(1):9-12.*
4. *Dalal PM Ischemic cerebrovascular diseases. In; Munjal PY, editor in chief, API textbook of medicine, 9th ed vol.2. Mumbai: The association of physicians of india; 2012.p.1401*
5. *Dalal PM Ischemic cerebrovascular diseases. In; Munjal PY, editor in chief, API textbook of medicine, 9th ed vol.2. Mumbai: The association of physicians of india; 2012.p.1401*
6. *Cull RE, Will RG. Disease of nervous system. IN; Edwards CRW, Bouicher IAD, Haslett C, Chilvers E.R, editors. Davidsons principle and practice of medicine, 17th ed. Britan: BPC Paulton books limited; 1995.p.1072*
7. *Dalal PM Ischemic cerebrovascular diseases. In; Munjal PY, editor in chief, API textbook of medicine, 9th ed vol.2. Mumbai:The association of physicians of india; 2012.p.1402*
8. *Acharya JT, editor. Charaka samhitha by agnivesha, Chikitsasthana; Vatavyadhichikitsa: Chapter 28, Verse 15-18. Reprint edition 2021. Varanasi: Chaukhambha orientalia, 2021; p.617.*
9. *Sharma PV, English translation on susruta samhitha.Vol 1. Sutrasthana; Vranaprashanamadhyaya: Chapter 21, Verse 19. Varanasi: Chaukamba Visvabharati office, 2014: p.231*
10. *Murthy SKR, English translation on Vagbhatas astanga hridayam. Vol 2. Nidanasthana; Sarvaroganidanam: Chapter 1, Verse 14-15. Varanasi: Chaukamba Krishnadas Academy,2018: pg.8*
11. *Murthy SKR, English translation on Vagbhatas astanga Sangraha. Vol 2. Nidanasthana; Sarvaroganidanam : Chapter 1, Verse 13. Varanasi: Chaukamba Orientalia,1999: p.144*
12. *Murthy HC, English translation on Madavanidana of sri madavakara.5th ed.part 1 poorvardha; Vatavyadhinidana*

ISSN (Online): 2455-3662
EPRA International Journal of Multidisciplinary Research (IJMR) - Peer Reviewed Journal
Volume: 10| Issue: 7| July 2024|| Journal DOI: 10.36713/epra2013 || SJIF Impact Factor 2024: 8.402 || ISI Value: 1.188

:Chapter 22,Verse 1-4 Varanasi: Chaukamba Sanskrit series office,2019:p.237
13. Murthy SKR, English translation on Bhavapraksha of Bhavamishra.3rd ed.part 2 Madhya and Uttara khanda; Vatavyadhiadhikara :Chapter 24,Verse 1-3 Varanasi: Chaukamba Sanskrit series office,2005:p.315
14. Sharma PV, English translation on susruta samhitha.Vol 1. Sutrasthana; Shonitavarnaniyaadhyam: Chapter 14, Verse 30. Varanasi: Chaukamba Visvabharati office, 2014: p.150
15. Acharya JT, editor. Charaka samhitha by agnivesha, Chikitsasthana; Vatavyadhichikitsa: Chapter 28, Verse 15-18. Reprint edition 2021. Varanasi: Chaukhambha orientalia, 2021; p.617.
16. Acharya JT, editor. Charaka samhitha by agnivesha, Chikitsasthana; Vatavyadhichikitsa: Chapter 28, Verse 19. Reprint edition 2021. Varanasi: Chaukhambha orientalia, 2021; p.617.
17. Murthy HC, English translation on Madavanidana of sri madavakara.5th ed.part 1 poorvardha; Vatavyadhinidana :Chapter 22,Verse 5 Varanasi: Chaukamba Sanskrit series office,2019:p.239
18. Acharya JT, editor. Charaka samhitha by agnivesha, Chikitsasthana; Vatavyadhichikitsa: Chapter 28, Verse 53-55. Reprint edition 2021. Varanasi: Chaukhambha orientalia, 2021; p.619.
19. Sharma PV, English translation on susruta samhitha.Vol 2. Nidanasthana; Vatavyadhinidanam: Chapter 1, Verse 61-62. Varanasi: Chaukamba Visvabharati office, 2014: p.13
20. Murthy SKR, English translation on Vagbhatas astanga hridayam. Vol 2. Nidanasthana; Vatavyadhi Nidana: Chapter 15, Verse 40-41. Varanasi: Chaukamba Krishnadas Academy,2018: p.155
21. Murthy SKR, English translation on Vagbhatas astanga Sangraha. Vol 2. Nidanasthana; Vatavyadhinidanam : Chapter 15, Verse 40-41. Varanasi: Chaukamba Orientalia,1999: p.246
22. Murthy HC, English translation on Madavanidana of sri madavakara.5th ed.part 1 poorvardha; Vatavyadhinidana :Chapter 22,Verse 39-40 Varanasi: Chaukamba Sanskrit series office,2019:p.249
23. Murthy SKR, English translation on Bhavapraksha of Bhavamishra.3rd ed.part 2 Madhya and Uttara khanda; Vatavyadhiadhikara :Chapter 24,Verse 204-205 Varanasi: Chaukamba Sanskrit series office,2005:p.340
24. Savrikar S.S, Sarangadhara-samhitha of sri sarangadharaacharya .1st ed.part Prathama khanda; Rogagnana:Chapter 7, Varanasi: Chaukamba Sanskrit Prathisthan,2019:p.302
25. Patil VC, Rajeshwari NM. Susruta samhitha with English translation of text and dalhanas commentary with critical notes.Vol 2. Nidanasthana; Vatavyadhinidanam: Chapter 1, Verse 62. Newdelhi: Chaukamba orientalia, 2018: p.13
26. 26.Murthy HC, English translation on Madavanidana of sri madavakara.5th ed.part 1 poorvardha; Vatavyadhinidana :Chapter 22,Verse 39-40 Varanasi: Chaukamba Sanskrit series office,2019:p.249-50
27. Murthy HC, English translation on Madavanidana of sri madavakara.5th ed.part 1 poorvardha; Vatavyadhinidana :Chapter 22,Verse 39-40 Varanasi: Chaukamba Sanskrit series office,2019:p.249-50
28. Patil VC, Rajeshwari NM. Susruta samhitha with English translation of text and dalhanas commentary with critical notes.Vol 2. Nidanasthana; Vatavyadhinidanam: Chapter 1, Verse 62. Newdelhi: Chaukamba orientalia, 2018: p.13
29. Sharma PV, English translation on susruta samhitha.Vol 2. Nidanasthana; Vatavyadhinidanam: Chapter 1, Verse 63. Varanasi: Chaukamba Visvabharati office, 2014: p.13
30. Murthy SKR, English translation on Vagbhatas astanga hridayam. Vol 2. Nidanasthana; Vatavyadhi Nidana: Chapter 15, Verse 41. Varanasi: Chaukamba Krishnadas Academy,2018: p.155
31. Murthy SKR, English translation on Vagbhatas astanga Sangraha. Vol 2. Nidanasthana; Vatavyadhinidanam : Chapter 15, Verse 43. Varanasi: Chaukamba Orientalia,1999: p.246
32. Murthy HC, English translation on Madavanidana of sri madavakara.5th ed.part 1 poorvardha; Vatavyadhinidana :Chapter 22,Verse 42-43 Varanasi: Chaukamba Sanskrit series office,2019:p.250
33. Murthy SKR, English translation on Bhavapraksha of Bhavamishra.3rd ed.part 2 Madhya and Uttara khanda; Vatavyadhiadhikara :Chapter 24,Verse 206 Varanasi: Chaukamba Sanskrit series office,2005:p.340-341
34. Murthy HC, English translation on Madavanidana of sri madavakara.5th ed.part 1 poorvardha; Vatavyadhinidana :Chapter 22,Verse 39-40 Varanasi: Chaukamba Sanskrit series office,2019:p.249
35. Acharya JT, editor. Charaka samhitha by agnivesha, Chikitsasthana; Vatavyadhichikitsa: Chapter 28, Verse 72-74. Reprint edition 2021. Varanasi: Chaukhambha orientalia, 2021; p.620.
36. Sharma PV, English translation on susruta samhitha.Vol 2. Nidanasthana; Vatavyadhinidanam: Chapter 1, Verse 60-62. Varanasi: Chaukamba Visvabharati office, 2014: p.13
37. Murthy SKR, English translation on Vagbhatas astanga Sangraha. Vol 2. Nidanasthana; Vatavyadhinidanam : Chapter 15, Verse 43. Varanasi: Chaukamba Orientalia,1999: p.246
38. Murthy HC, English translation on Madavanidana of sri madavakara.5th ed.part 1 poorvardha; Vatavyadhinidana :Chapter 22,Verse 43 Varanasi: Chaukamba Sanskrit series office,2019:p.250
39. Sharma PV, English translation on susruta samhitha.Vol 2. Chikitsasthana; Mahavatavyadhichikitsa: Chapter 5, Verse 18. Varanasi: Chaukamba Visvabharati office, 2014: p.320-321
40. Byadgi P.S.Parameswarappas Ayurvediya Vikriti-Vijnana and Roga Vijnana.New Delhi : Chaukhamba Publication;2016. Vol 2.p.503
41. Byadgi P.S.Parameswarappas Ayurvediya Vikriti-Vijnana and Roga Vijnana.New Delhi : Chaukhamba Publication;2016. Vol 2.p.504
42. Acharya JT, editor. Charaka samhitha by agnivesha, Chikitsasthana; Vatavyadhichikitsa: Chapter 28, Verse 100. Reprint edition 2021. Varanasi: Chaukhambha orientalia, 2021; p.621.
43. Sharma PV, English translation on susruta samhitha.Vol 2. Chikitsasthana; Mahavatavyadhichikitsa: Chapter 5, Verse 18. Varanasi: Chaukamba Visvabharati office, 2014: p.320-321
44. Murthy SKR, English translation on Vagbhatas astanga hridayam. Vol 2. Chikitsasthana; Vatavyadhichikitsa: Chapter 21, Verse 44. Varanasi: Chaukamba Krishnadas Academy,2018: p.505
45. Murthy SKR, English translation on Vagbhatas astanga Sangraha. Vol 2. Chikitsasthana; Vatavyadhichikitsam : Chapter 23, Verse 30. Varanasi: Chaukamba Orientalia,1999: p.529