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# PAKSHAGHAT: A CASE STUDY

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Abstract: Pakshaghata a term in Ayurvedic literature, refers to a condition characterized by loss of function and weakness in one half of the body. It is regarded as predominately Vata Dosha Vyadhi. Factors such as Dosha involvement, Bala, and Vaya can impact the prognosis, with the face potentially involved.

Current scientific theories suggest the brain controls motor functions, with cerebral vascular accidents being the primary cause of loss of bodily function. *Ayurveda* can be correlated with *Pakshaghata* because of the most similarity; on the other hand, *Ayurveda* treats both the underlying cause and symptoms of *Pakshaghata* with *Samshodhana* and *Vata - Shamaka* chikitsa.

In the present case, the patient presented with right side *Pakshaghata* and was treated with *Panchakarma* therapy, which included *Shirodhara*, *Nasya*, *Mukhabhyanga*, *Ksheerdhooma*, *Agnilepa*, *Vasti*, and *Shaman Aushadhi*. Initially, *Nasya*, *Mukhabhyanga*, and *Ksheerdhooma* were given for 7 days. *Shirodhara*, *Sarvang Abhyanga*, *Nadisweda*, *Agnilepa* for 13 days, and *Vasti* for 5 days. Then the patient was discharged with oral medication and then came to follow up after 25 days. After treatment, patients get significant results.

Key words: Pakshaghata, Dosha, Samshamana, Samshodhana..

#### 1. Introduction:

Acharya Charaka explains that Pakshaghata is a disease caused by the vitiation of the Vata Dosha, resulting in Adhishthana in one half of the body and joint stiffness (a lack of function on one side of the body)<sup>1</sup>. Acharya Sushruta explains that Vata Dosha travels in Urdhava Adhoga Tiryaka Dhamani, leading to Sandhi Bandhana Moksha and ultimately causing Pakshaghata. The prognosis is Asadhya when Dhatukshaya is the cause, Krichhrasadhya when Vata is the only factor, and Sadhya when Vatadosha is linked to other doshas<sup>2</sup>. Pakshaghata's Chikitsa lists Snehana, Swedana and Mridu Samshodhana first, followed by Vasti with Balya and Vatashamaka Aushadha, Shalavana Upanaha, Nasya, Shirovasti, and Abhyanaga with different Taila<sup>3</sup>.

Hemiplegia, often a result of cerebrovascular disorders or stroke, is characterized by a focal neurologic deficit. The clinical symptoms are highly variable due to the brain's complex anatomy. Other symptoms include weakness, decreased movement control, clonus, spasticity, exaggerated deep tender reflexes, and decreased endurance. Hemiplegia is the leading cause of disability and has significant socioeconomic implications<sup>4</sup>.

#### 2. Case report:

A 57-year-old Male patient reported at the Kayachikitsa OPD of Padma hospital, SDMTAMC Terdal, complaining *Vaakrichata* (Difficulty in talking) Right upper &lower limb *Karma* and *Bala Kshaya* (loss of function and strength) since18 days along with gradual onset and routine work in co-ordination but no signs and symptoms of Increased intracranial pressure. Before coming to us he consulted to Lakeview Hospital Belagavi where he has got his MRI Brain done for two times and later, he was put on Antiplatelets, Antihypertensive & other symptomatic medication and got partial improvement in speech and Rt. Upper and lower limb function. The patient was detected diabetic and hypertensive along with above complain. With these complaints, patient admitted to hospital with ID no. 30182.

#### 3. Clinical Findings:

The case was subsequently consulted on 22/09/2023 in OPD of Padma hospital Terdal for the *Ayurvedic* treatment. A male patient with moderate built, had complaints of *Vaakrichata* (Difficulty to talking) Right upper &lower limb *Karma* and *Bala Kshaya* (loss of function and strength) since18 days along with gradual onset and routine work Inco-ordination. When physical examination was done, vitals were stable, per abdominal examination did not reveal any significant findings.

#### 4. Dashavidha Pareeksha (Ten-Fold Examination):

Prakruti (genome) was Vata Kapha; Vikriti was Vata Pradhana Tridosha; Satva (psyche) was Madhyama (moderate); Sara (excellence of tissue), Samhanana (compactness of organs), Ahara Shakti (power of food intake), Satmya (suitability), Pramana (measurement of body organs) were Madhyama (moderate), Vyayama shakti was Madhyama (moderate).

#### 5. Ashtavidha Pareeksha (Eight-Fold Treatments):

Nadi (pulse) was Vataja(78/minute); Mala (bowel) was Vibhandayukta (constipated) and regular; Mutra (urine) was Srista (normal); Shabda (voice) Vaakrichata (Difficulty to speech/slurred speech); Jihva (tongue) was Lipta (coated); Akriti (body built) was Madhyama (moderate); Drik (vision) was normal.

#### 6. H/O:

Type 2 DM & Hypertension detected with above complaints 18 days back, Now patient is on allopathy medication.

No history of any surgical intervention or blood transfusion

**1st MRI Brain:** (02/09/2023) Acute infract in left half of pons age related bilateral diffuse prominence of fronto-parietal cortical sulci.

**2nd MRI Brain:** (19/09/2023) 17 days later MRI was compared to previous MRI brain there is no significant increase in size of subacute infarct noted in left half of pons. No e/o hemorrhagic transformation. No e/o fresh infarct.

H/O old blood reports: Hb 15%, platelets 2.47lakh/cells/Cmm, BSL level 140 mg/dl, creatine 1.1 mg/dl.

#### 7. O/E:

General Condition: stable conscious oriented

No pallor/icterus/edema.

B.P:140/100 mm of Hg

P.R:78/min Temp:Afebrile

#### 8. Central nervous system

### 8.1. Higher functions:

Consciousness: fully conscious to time place and person.

Memory Intact Behavior friendly

Orientation: fully oriented to time, place and person.

#### 8.2. Cranial nerves:

Facial nerve (symptoms present) Asymmetry of face, stasis of food in mouth, dribbling of saliva through mouth during talking. Eye closure normal, whistling not present, blowing not present Hypoglossal tongue deviated.

#### 8.3. Sensory system:

Superficial sensation WNL

Deep sensation WNL

Cortical sensation WNL

Deep tendon reflexes – Right knee reflex exaggerated; Right elbow reflex exaggerated.

#### **8.4. Gait**: Hemiplegic gait positive

#### 8.5. Movements:

Unable to raise right upper leg above to head.

Elbow flexion possible up to 60 degrees.

Unable to do physiotherapy stair up and down by 2 fingers.

Unable to draw circle with pen.

Unable to get up and sit without support.

Unable to walk without support.

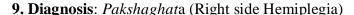
Unable to were cloths/shoes or bath without support.

Unable to attend professional work at TVS show room.

#### 8.6. Motor Function:

**Table 1: Motor function before treatment** 

	Right	Right	Left	Left
	upper	lower	upper	lower
	limb	limb	limb	limb
Bulk	Normal	Normal	Normal	Normal
Tone	Normal	Normal	Normal	Normal
Power	3/5	4/5	5/5	5/5



#### 10. Treatment:

Table 2: Panchakarma Treatment

Date	Procedure	Medication used	Days
22/09/2023 -	Shirodhara	Ksheerbala Taila + Karpasasthyadi	13 day
03/10/2023		Taila	
22/09/2023 -	Sarvanga Abhyanga f/b	Balashwagandha Taila	13 day
29/09/2023	Nadisweda		
23/09/2023 -	Nasya	Gudaadraka Swarasa	7 day
29/09/2023			
23/09/2023 -	Mukhabhyanga &	Mukhabhyanga Karpasasthyadi Taila	7 day
29/09/2023	Ksheerdhooma(face)		
23/09/2023 -	Agnilepa	Lashuna,Maricha,Sarshapa,Arka,Harid	11 day
02/10/2023		ra,Saindhava Lavana,Dhattura.	

29/09/2023-	Basti a)Anuvasan basti	Sahacharadi taila.	3 day
03/10/2023	b)Niruh basti	Manjisthadiksharbasti	2 day

#### Table 3: Shamana Chikitsa

Date	Drug name	Dose	Days
22/09/2023 -	Dhanadanayanadi Kashayam	10 ml TID after food	13 day
03/10/2023			
22/09/2023 -	Yasthimadhu churna + Vacha churna +	2gm with water TID	13 day
03/10/2023	pipali Churna	after food	
22/09/2023 -	Tab Vrihat Vatchintamani Rasa	1 tab BD after food	10 day
01/10/2023			
22/09/2023 -	Capsule Palsinuron	1 tab TID after food	13 day
03/10/2023			
22/09/2023 -	Capsule Gandharvahastadi Thailam	1 tab HS (hora somni)	13 day
03/10/2023			

**Physiotherapy:** for 13 days. (22/09/2023 - 3/10/2023)

#### 11. Discharge medication:

- 1) Sarasvatarishta + Ashwagandharista + Cardorium syrup 10 ml each with 1/2 water BD after food.
- 2) Cap Lashun Rasayan 1 Bd 2 day 2 Bd for 3day 1 Bd for 2 day repeat cycle 2 time after food.
- 3) Cap Palsinuron TDS after food.
- 4) Tab *Brahmhi Vati gold* 1 HS.
- 5) Tab Makardhwaj vati gold OD after food.
- 6) Abhyanga with Balashwagandha taila.

Patient continued above medication up to next follow up 4/10/2023 to 30/10/2023 (25 days).

#### 12. Follow Up and Outcome:

The patient took *Panchakama* treatment for 13 days and then came to follow up after 25 days.

#### 13. Result:

Improvement in *Vaakrichata* (Difficulty to talking).

Facial nerve (symptoms present) Asymmetry of face improved, No stasis of food in mouth, No dribbling of saliva through mouth during talking.

Gait: Hemiplegic gait Negative.

#### **Movements:**

Able to raise right upper leg above to head.

Elbow flexion possible upto 80 degree.

Able to physiothrepic stair up and down by 2 fingure.

Able to draw circle with pen.

Able to get up and sit without support.

Able to walk without support

Able to were cloths/bath/ shoes without support

Able to attend professional work at TVS show room.

**Table 4: Motor function after treatment** 

	Rt	Rt	Left	Left
	upper	lower	upper	lower
	limb	limb	limb	limb
Bulk	Normal	Normal	Normal	Normal
Tone	Normal	Normal	Normal	Normal
Power	5/5	5/5	5/5	5/5

#### 14. Probably mode of action:

The aggravated *Vata-Vataja* disorder in *Vatavyadhi* affects both the *Snayu* (nerves) and *Sira* (blood vessels). The best treatments have been mentioned as *Snehana* (oleation), *Swedana* (sudation), and *Basti* (enema). It supplies *Pushti Prasada*, or food for the *Dhatus*, and balances the *Vata Doshas*. If *Abhyanga* is done for a sufficient amount of time, the oil gets absorbed and transported to the different *Dhatus*. *Swedana* has the ability to enter the microchannels after they have dilated and lead the toxins towards *Kostha* or expel them through the use of *Shodhan* therapy<sup>5,6</sup>.

Shirodhara: It helps to pacify the vitiated Vata in Shiropradesh and relaxes the nervous system. Karpasahastadi taila soothes muscles, nerves, and balances Vata Dosha<sup>7</sup>. Balashwagandha taila has muscle and nerve-strengthening properties, and it is best for Vata-induced degenerative neurological changes.

The accumulated *Doshas* are expelled out by *Shodhana Nasya*. *Guda* with *Adraka* having *Tridoshoshamaka* activity, *Adraka* acts as *Kaphaghna*, *Strotoshodhaka*, and *Raktprasadka* and enhances good circulation. *Ksheerdhoom* is helpful in treating anxiety, stress, speech disorders, and facial paralysis caused by an imbalance in the *Vata Dosha*<sup>8</sup>.

Agnilepa, a paste containing drugs like *Ushna*, *Tikshna*, *Ruksha*, *Katu*, *Tikta Rasa*, and *Laghu Guna*, whose properties are opposite those of *Vata Kapha Dosha* helps relax and reduce muscle spasms, and improve muscle function<sup>9</sup>.

Vasti helps in Vata shamana multidimensional affect Dhatu Poshana and pacification of other Doshas associated with Vata Dosha. Anuvasana Basti with Sahacharadi Taila, balances the Vata and Kapha<sup>10</sup>. It helps ensure that the blood circulates properly and strengthens the veins. Manjisthadi Kshara Vasti contains potent Vata Shamak, Stroto, and Raktashodhak Dravyas. Kshara Basti aids in removing lumen blockages and enhances circulation to the afflicted area<sup>11</sup>.

Palsineuron capsules enhance PNS and central nervous system metabolic functions. It leads to neuromuscular communication<sup>12</sup>.

Brihatvatachintamani Rasa has properties such as Medhya, Rasayana, Lekhana, Balya, Kshayagna, Ojovardhana, and Yogavahi, which have a targeted effect on the management of Pakshaghata<sup>13</sup>.

The post ischemic brain's upregulation of anti-apoptotic proteins and downregulation of proapoptotic proteins is influenced by gold nanoparticles. The brain's inflammatory response is reduced by silver nanoparticles.

The *Gandharvahastha Eranda Thailam* Capsule helps to restore the natural balance of the digestive system by providing friendly relief from hard bowel movements. It helps to regulate the Vata's normal movement<sup>14</sup>.

*Makardhwaj Vati* aids in tissue repair and regeneration, protects against cellular damage, and stabilizes *Vata* and *Pitta* doshas<sup>15</sup>.

*Brahmi Vati*, a helpful remedy for nerve strengthening and circulation improvement, is known for its neuroprotective and memory-enhancing properties<sup>15</sup>.

 $Saraswatarishta^{16}$  is a potent nervine tonic that aids in reducing low grasping power and slurred speech.

Cardorim Plus is a potent herbal remedy that strengthens blood vessels and dissolves blockages to improve blood circulation.

Ashwagandharishta effectively reduces bad cholesterol and enhances neurotransmission and synaptic flexibility<sup>16</sup>.

Vacha, along with Medhya, supports regulating speech problems due to its Vata pacifying and Medhya actions.

Physiotherapy helps patients restore, maintain, and optimize their physical strength, function, and overall wellness; enhance joint integrity and muscular flexibility; and meet developmental milestones <sup>17</sup>.

#### 15. Discussion

Ayurveda is a science that not only treats symptoms but ultimately leads to Samprapti Vighatana, thus curing the disease. In Pakshaghata disease, Vata is the basic cause of the disease, which should be treated first with Shodhana and Shamana Chikitsa. Vasti helps Vata Shamana multidimensional affect Dhatu Poshana and pacification of other doshas if associated with Vata Dosha. Manjisthadi Kshara Vasti contains potent Vata Shamaka, Stroto, and Raktashodhaka properties. Pakshaghat's main pathology lies in the brain. In Ayurveda, Nasa is called Dwara to Shira (brain) [Nasa Hi Shiraso Dwaram]. In the case of Nasya, which causes Dosha Shodhana and Shamana. Shirodhara pacifies the vitiated Vata in Shiropradesh and relaxes the nervous system. In the case of *Pakshaghata*, if there is flaccidity, rigidity, hypertrophy of muscles, and stiffness prevented by Abhyanag, Swedana, Ksheerdhoom and Agnilepa it also increases blood supply to the part.

#### 16. CONCLUSION

Pakshaghata is a Vata Pradhana ailment that causes loss of function in one half of the body, which may be compared to hemiplegia of any origin. Vata Pradhana Vyadhis are best treated with Shirodhara, Nasya and Vasti, and the main Adhishthana of Dosha is Urdhva Jatrugata. Symptomatic relief is given by Sthanika Abhyanaga, Swedana, Agnilepan, Shaman Aushadhi, and physiotherapy. After the above treatment, the patient's recovery is significant. Thus, it can be concluded that Panchakama Shodhana and Shamana Aushadhi and physiotherapy are very effective in Pakshghata Chikitsa and in patients suffering from stroke and similar ailments.

#### **Declaration of Patient Consent**

Authors certify that they have obtained patient consent form, where the patient has given his consent for reporting the clinical case information in the journal. The patient understands that his name and initials will not be published and due efforts will be made to conceal his identity, but anonymity cannot be guaranteed.

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#### **Conflicts of Interest**

There are no conflicts of interest.

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