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"Role of 'santarpana chikitsa' in the management of 'pakshaghata' with special reference to 'acute non – hemorrhagic infarct – hemiplegia' – a case study."

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ABSTRACT -

In the era of modernization, diseases like systemic hypertension, dyslipidemia, diabetes mellitus, coronary / artery diseases etc., occurs easily due to sedentary adaptation of lifestyle, excessive stress, fast food consumption etc., Which then leads to conditions like stroke or hemiplegia. Along with cancer and coronary artery diseases, stroke is the major cause of mortality and morbidity worldwide. Hemiplegia means total or partial paralysis of one-sided limbs with physical and mental instabilities. In Ayurvedic prospective correlated hemiplegia is with 'Pakshavadha'.[1] 'Pakshaghata' or 'Paksha' means half part of body and 'Aghat' means loss of functions.

This is a case of 52 years old female patient diagnosed with 'Acute non-hemorrhagic infarct' (*Dakshina pakshavadha*). Initially she was treated with modern medicines but she didn't get

satisfactory result. So, on the 25th day of stroke she was admitted to MAP Hospital Mumbai. She was successfully managed by *Ayurvedic "Santarpana chikitsa*" for 2 months. Treatment shows considerable recovery in ability, mobility and strength which is highly encouraging.

KEYWORDS – *Pakshaghata*, Stroke, *Pakshavadha*, Hemiplegia, *Santarpana*, *chikitsa*.

INTRODUCTION –

Hemiplegia is one of the most prevalent and disabling neurological disorder with prevalence of completed stroke and hemiplegia due to any cause is 56.9 per 1,00,000. The prevalence rate per 1,00,000 population is 68.5% in male and 44.8% in female.^[2] Hemiplegia caused due to manifestation of stroke with neurological depict from vascular mechanism, 85% are ischemic and 15% are hemorrhagic. The reduction of blood flow to the brain for prolonged period resulted in ischemia and infarction. [3]

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Most common symptoms of hemiplegia include weakness or numbness of face, arms, legs most often on one side of body. Other symptoms include confusion, difficulty in speaking, difficulty in walking, loss of balance or coordination, difficulty in seeing with one eye or both, severe headache without any cause etc.,

According to *Ayurveda* it is correlated with '*Pakshaghata*' or '*Pakshavadha*'. Which is made of two word '*Paksha*' means 'half part of body' and '*Aghat*' means 'loss of functions. It is amongst the 80 types of *Nanatmaj vata vyadhi*. [4] Here, vitiated *vata dosha* is main causative factor, which decreases *dravatva* and *snigdhata* of *rakta* and *meda dhatu*. [5] It causes looseness and dryness in *sira- snayu- sandhi* and tendons of the half part of body.

Ayurveda plays major role in the management of this condition. Here treatment includes Ghritapana, Shamana nasya, Matra Basti, Snehana, Swedana with Shamana aushadhi comes under the title of*'Santarpana* Chikitsa' 'Brihana Chikitsa'. It is one of the Shadavidha upakrama narrated Acharya Charaka. This treatment leads vatashamana. vatanulomana. agnivardhana as well as rasayana effect. Management of pakshaghata is reported in this paper.

CASE REPORT -

A 52 years old female patient came to our hospital on stretcher with the complaints –

1. Weakness in right sided upper and lower limbs

- 2. Restricted movement of right sided upper and lower limbs
- 3. Unable to stand and walk since 25 days
- 4. Unable to sit without support
- 5. Swelling over fingers of right upper limb
- 6. Vismriti (Diminished memory)
- 7. Vibandha (Constipation) -since 5 days

HISTORY OF PRESENT ILLNESS –

As per patients' statement, she was quite well before 04/11/2019. On this day, she got some bad news causes emotional disturbances, leads to sudden rise in blood pressure and she had convulsion. Which leads to acute non- hemorrhagic infarct. After that she was admitted to some private hospital but she didn't get satisfactory result. So, she came to our hospital on 30/11/2019 for further management.

PAST HISTORY -

■ K/C/O – 1) HTN – since 25 days (From the same day of stroke)

 R_x Tab. Amlodipine 5mg 1-0-1 2) Hypothyroidism – since 7 years

R_x Tab. Thyronorm 25mcg 1-0-0

 H/O – Convulsion (on the same day of stroke)

Tablet. Eptoin 100mg 1-1-1 taken for 20 days.

- F/H HTN & DM Father
- S/H Hysterectomy 3 years ago

• GENERAL EXAMINATION –

1, GC – Moderate, afebrile

2. PR – 66/min

3. BP - 130/80 mmHg

• SYSTEMIC EXAMINATION –

- 1. RS AEBE, Clear
- 2. $CVS S_1S_2$ normal
- 3. CNS -

- Consciousness
 Conscious
- Orientation Fully oriented to time, place and person.

Sr.	Function	Right extremities		Left extremities	
no.					
		Upper limb	Lower limb	Upper limb	Lower limb
a.	Sensation	Normal	Normal	Normal	Normal
МОТ	OR EXAMINATION				
b.	Tone	Нуро	Нуро	Normal	Normal
c.	Power	1/5	1/5	5/5	5/5
d.	Muscle - movement	Weak	Weak	Normal	Normal
	coordination				
e.	Involuntary movement	Absent	Absent	Absent	Absent
SEN	SORY				
EXA	MINATION				
		Biceps - +3	Knee - +3	Biceps - +2	Knee - +3
f.	Reflexes	Triceps- +3	Ankle - +3	Triceps - +2	Ankle - +2
		Supinator -	Plantar –	Supinator –	Plantar –
		responding	flexion	responding	flexion

INVESTIGATION –

Multislice CT scan of head -

- 1) Acute Hypertensive haematoma is seen in the left thalamus with extension into the ventricular system. Haematoma is seen bulging into the posterior aspect of III ventricle and reaches up to the right paramedian location where it indents upon the right thalamus. Also indent upon the superior surface of the mid brain.
- 2) Haematoma measures approx. 3.5 (TR) * 2.5 (AP) * 2.7 (SI) cm.
- 3) Mild diffuse effacement of the bilateral cerebral sulci.

4) Minimal bowing of the interventricular septum towards the right without significant midline shift.

DIAGNOSIS:

On the basis of clinical presentation and CT scan of brain it was diagnosed as 'Acute non-hemorrhagic infarct' (Hemiplegia right sided) and *Pakshaghata* (*Dakshina*).

SAMPRAPTI GHATAK -

- 1. Dosha Prana, udana and vyana vayu, Sadhak pitta, Tarpak kapha.
- 2. Dushya Dhatu Rasa, Rakta, Mansa, Meda, Majja, Asthi

- i. Updhatu Sira, Snayu, Kandara
- 3. Strotasa Rasavaha, Raktavaha, Medovaha, Asthivaha, Majjavaha.
- 4. Agni Jatharagni, dhatwagni of Rasa, rakta, mansa, meda, asthi, majja.
- 5. Type of strotodushti Sanga
- 6. Udbhavasthana Mastishka
- 7. *Vyaktisthana Ardhanga* (Right side)

MANAGEMENT –

DAY	COMPLAINTS	INTS EXAMINATION OF RIGHT EXTRMITIES			OF ES	C	HIKITSA
		TONE		POWER			
		U/L	L/L	U/L	L/L		
1 st day (30/11/2019)	Weakness in right sided upper limb and lower limb with restricted movements	1/5	1/5	Нуро	Нуро	•	Capsule. Palsynorm 1 at morning with Brahmi ghrita 2 tsp
	Unable to stand and walk					•	Matra basti with tila taila and saindhav *7 days
	Unable to sit without support					•	Pratimarsha nasya with
	Swelling over fingers of right upper limb	Ay	J-RIM	<u>ne</u>		•	Brahmi ghrita at night $2^0 - 2^0$ Chitrak Haritaki Avaleha 2 tsp at night with luke warm water. Tab. Amlo 5mg 1-0-1 Bladder wash Splint given for Right upper limb
	Constipation Urine -passed (catheter in situ) Stool - not passed BP - 130/80 mmHg PR - 66/min					-	
	(Solid stool with pungent smell passed after <i>Matra Basti</i>)						
After 1 week	Weakness	1/5	2/5	Нуро	Нуро	•	Palsynorm 1 at morning with Vachadi ghrita 2 tsp Vachadi ghrita 3 tsp at 8.00 am
(7/12/2019)	Loose motion (5-6 episodes – since morning)						
	Weakness in right sided upper limb and lower limb with restricted movement Able to sit with					•	

	T	ı	ı	ı		Ι
	support of back rest					at morning with
	Able to stand with					Vachadi ghrita
	support					Pratimarsha
	Swelling over					nasya with
	fingers of right					Brahmi ghrita at
	upper limb ↓					night 2^0 - 2^0
	Vismriti(Diminished					 Mahamasha taila
	memory)					for L/A
	■ Urine – passed					 Splint for right
	Stool – passed					upper limb
	■ BP – 120/60					■ Bladder wash
						and removal of
	mmHg					catheter
	■ PR – 60/min					Stopped Tablet
						Amlo 5mg Hold <i>Matra basti</i>
						and chitrak
			0.4			haritaki avaleha
After 2 weeks	Weakness in right	1/5	3/5	Нуро	Нуро	Continue above
(14/12/2019)	upper limb and					treatment
	lower limb					■ <i>Matra basti</i> with
	Restricted					tila taila &
	movement of Right					saindhava
	upper limb ++ and					*15days
	right lower limb	1/1-		ino		Chitrak haritaki
	Able to sit without			110		avaleha 1 tsp
	support		J - RIM			with luke warm
	Stiffness at right					water at alternate
	upper and lower					night
	limb					■ Patrapinda
	Able to stand and					sweda at right
	walk with support					upper and lower
	(20-30 steps)					limb *15 days
	Swelling over					■ Wax therapy
	_					over right upper
	0					limb
	upper limb					IIIIIO
	Vismriti (diminished					
	memory)					
	■ Urine – passed					
	■ Stool – passes					
	■ BP – 110/70					
	mmHg					
	■ PR – 66/min					
After 4 weeks	Weakness in right	2/5	3/5	Improve	ed	Continue above
(28/12/2019)	upper limb and					treatment
	lower limb					■ Hold <i>matra basti</i>
	Restricted					■ Ksheera basti
	movement of Right					with panchatikta
	upper limb and					+ $Bala$ $+$
	right lower limb					Shatavari +
l		l	l	l		1

	Able to walk with support (40-50 steps) Swelling over fingers of right upper limb Stiffness at right upper and lower				Vachadi ghrita * 15 days
	limb Vismriti (diminished memory) Urine – passed Stool – passed BP – 120/60 mmHg				
After 6 weeks (4/01/2020)	■ PR – 74/min Weakness in right upper limb and lower limb ★▼ Restricted movement of Right upper limb and right lower limb	3/5	4/5	Improved	Continue above treatment Foot splint given for right lower limb
	Able with support (50-70 steps) Swelling over fingers of right upper limb Stiffness at right upper and lower limb	Ay	J. HIM	<u>ne</u>	
	Improvement in memory + Urine – passed Stool – passed BP – 110/60 mmHg PR – 70/ min				
After 8 weeks (20/01/2020)	Weakness in right upper limb and lower limb Restricted movement of Right upper limb and right lower limb walk without support	4/5	4+/5	Improved	Continue above treatment (Hold wax therapy)

(30-40 steps)		
Improvement in memory ++		
 Urine – passed stool – passed BP – 120/60 mmHg PR – 72/min 		

DISCUSSION -

Pakshagahta is Vata pradhana ailment which causes loss of functions of half part of the body. In this case study has been carried out to evaluate better line of treatment for Pakshagahta.

In this case patient is having symptoms like weakness in right upper limb and lower limb with restricted movement, unable to stand, sit etc., so vitiated *vata dosha* is the basic cause of these which should be treated first. Though all the drugs under study having *vatashamana*, *santarpana* effect.

CAPSULE PALSYNORM -

It has rasayana and vatashamana properties which helps in relieving symptoms also acts as balva to the contains it nervous system. As Sameerpannaga rasa, which improves tissue oxidation and regulate blood supply in affected areas. Also, it contains Mahavatavidhvansa rasa, it improves metabolic process in central as well as peripheral nervous system and activates neuromuscular communication. Another ingredient such as Parasik yavani, Deodaru, Erandamoola, Ashwagandha, Atibala, Vidari etc., acts as a balya, vatashamaka and rasayana.

SNEHANA -

As vitiated *vata dosha* is main cause of *pakshaghata*, *Snehana* plays important role in *vatashamana* and *santarpana*.

a) BAHYA SNEHANA –

Mahamasha taila is used for bahya snehana, it is balya in nature. It increases muscle tone and power by reducing stiffness and sluggishness.

b) ABHYANTARA SNEHANA -

In this case *Brahmi ghrita* and *Vachadi ghrita* used for *abhyantar snehana*. *Ghrita* is *vatashamaka*, *balya*, *agnivardhaka*, *vrishya and* improves general condition of body. Also, it has lipophilic action and can cross blood brain barrier. So, it acts on brain.

1. Brahmi ghrita –

It is used as *anupana* and for *nasya karma*. Main ingredient is *Brahmi*, it is *medhya* drug and has ability to enhance the efficacy of transmission of nerve impulses, thereby strengthening the memory and cognition.

2. Vachadi ghrita –

It is used as anupana and for abhyantar snehapana. It helps in improving cognition and memory because vacha has kshobhakar property. Here, patient is having vismriti so vachadi ghrita helps in improving memory.

1) **BASTI** -

All the *Acharyas* have appreciated *basti* as a unique form of treatment modality for *vata dosha* and also considered as '*Ardha chikitsa*'. It expels vitiated *doshas* rapidly as well as it nourishes the body.

Matra basti -

Matra basti of tila taila and saindhava helps to remove strotorodha and Pakwashayagata vayu and relieving constipation. It leads to vatashamana as well as decreases blood pressure.

1. Ksheera basti -

Ιt Panchatikta. contains bala. shatavari, ksheera and vachadi ghrita. contents of basti have balya well as *tridoshashamak* and dhatvagnivardhak properties. The nutritive substances from these drugs get absorbed from gut and leads to santarpana.

2) NASYA -

Nasya means administration of drugs through nasa or nose. According to Acharya Vagbhata, Nasa is the portal gateway of shira pradesha. [6] The drug administered through the nose reaches to the brain and in pakshaghata main pathology lies in brain.

In this study *pratimarsha nasya* is given with *Brahmi ghrita* at night. The *Sneha* means *ghrita* helps in *vatashamana* and acts as a *brihana nasya*.

3) PATRAPINDA SWEDA –

It is one of the types of sagni sweda. Its ingredients are NIrgundi, Eranda, Arka patra, Bala and Ashwagandha choorna, Eranda taila. All these drugs have vatshamaka properties. Which helps to reduce strotorodha

and stiffness leads to improvement in muscle tone and power.

4) CHITRAK HARITAKI AVALEHA -

It helps in improving metabolism and agni. It acts on digestive juices and increases their secretions thus improves digestive power as well as dosha pachana and anulomana. Helps in relieving constipation.

5) SWAMALA RASAYANA –

It is semisolid preparation having Chyavanaprasha its as main ingredient, other ingredients Suvarna bhasma, Roupya bhasma, Abhraka bhasma and goghrita. It acts as rasayana, balya and also improves immunity, infuses fresh energy and relieves physical weakness especially as a result of illness. Also promotes healthy functioning of nervous system.

6) WAX THERAPY -

Wax therapy is the form of deep heat therapy that involves the application of molten wax to the affected joints and warming connecting tissues, it leads to muscle relaxation, reduction in stiffness and improvement in joint mobility.

7) SPLINT -

It is supportive device or treatment which is used to immobilize the injured body part or joints and for protection and support. Here we give splint over right forearm which stabilizes dislocated shoulder joint and improves blood supply and swelling over fingers get reduced. Also, foot splint is given to right foot for support and stabilization of foot during walking.

CONCLUSION -

According to observation, in the present study this can be concluded that 'Santarpana chikitsa' is significantly effective in the management of Pakshaghata.

While scope for the further research and clinical trails is enormous, it remains sustained, that with proper diagnosis and selection of treatment protocol.

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RESULTS BEFORE AND AFTER STUDY -

(30/11/2019)

(07/12/2019)

(14/12/2019)











(4/01/2020)

(20/01/2020)

REPORTS OF CT BRAIN BEFORE AND AFTER TREATMENT -



