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**Research Article** 

## CLINICAL-COMPARATIVE STUDY OF VIRECHAN & PAKSHAGHATARI GUGGULU ON PAKSHAGHAT W.R.S. TO HEMPIPLIGIA

# MANOJ KUMAR GUPTA<sup>1</sup>, NEERAJ KANUNGO<sup>2</sup>, DINESH SINGH GAUR<sup>3</sup>, SHRIKRISHNA SHARMA<sup>4</sup>, U.S NIGAM<sup>5</sup>, VINOD KUMAR SINGH<sup>6</sup>

<sup>1</sup>Lecturer, Department of Roga and Vikriti Vijnana,Government Ashtang Ayurvedic College and Hospital, Lokmanya Nagar, Indore, Madhyapradesh, India, <sup>2</sup>Lecturer, Department of Kaya chikitsa, Government Ashtang Ayurvedic College and Hospital, Lokmanya Nagar, Indore, Madhyapradesh, India, <sup>3</sup>Lecturer, Department of Shalakya, Government Ashtang Ayurvedic College and Hospital, Lokmanya Nagar, Indore, Madhyapradesh, India. <sup>4</sup>Ex Associate Professor Department of Roga and Vikriti Vijnana, National Institute of Ayurveda, Jaipur, Rajasthan, India. <sup>5</sup>Ex Principal and H.O.D. Department of Kaya chikitsa, Government Dhawantari Ayurved College and Hospital, Ujjain, Madhyapradesh, India. <sup>6</sup>Reader. Department of Kaya chikitsa, Gaur Brahman Ayurved College and Hospital, Rohtak, Haryana, India. Email: drmanoj.gupta505@gmail.com

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## ABSTRACT

In the present era due to speeder change of the civilization, human habits and life style continuously changing without any consideration of their benefits or harms Adaptation of new diets, movement with fast moving vehicles, maintenance of wrong postures, avoidance or over-indulgence of exercise, suppression of natural urges, anxiety strain etc. of the present life are becoming responsible for increasing incidence of Vatavyadhi like Pakshaghat (Hemiplegia.) These diseases mostly treated by allopathic medicines(high dose of corticosteroids) which are having considerable side effects and could not be used on long term basis. So conclusion is that in these disease, the dose of allopathic medicines and disease gradually progresses and in addition due to the side effects of allopathic medicines, it is better that these diseases should be treated by Ayurvedic medicines.

Keywords: Pakshawadh Pakshaghat and Ardhangavata etc.

#### INTRODUCTION

Stroke1 is a world-wide health problem; with incidence ranging from 0.2 to 2.5 per thousand per year according to WHO Collaborative Study in 12 countries. It accounts for 20% of neurological admissions. Till date, in India there have been only a few community based studies for either prevalence or incidence of stroke; with one reporting a prevalence rate of 334/100,000 and an incidence of 73/100,000 in 19902. Post-stroke hemiplegia is one of the most common causes of disability in adults. Prevalence of hemiplegia in South India is 56.9 per 100,000; as compared to 150 to 186 per 100,000 in the USA and Europe. Hemiplegic shoulder pain (HSP) is one of the commonest complications, occurring in about 20-72% of such patients with average figures ranges from 43 to 64%3-10. Kalichman and Ratmansky11 reported prevalence of HSP is approximately 22%-23% in the general population of stroke survivors and approximately 54%-55% among stroke patients in rehabilitation settings. In day- today practice Pakshaghat disease is common in Ayurvedic OPD& IPD. As compare to modern medical science after Emergency manegment on Pakshaghat, they prescribe physiotherapy, which is not so much beneficial.

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Generally the Vatavyadhi is managed by Snehan-Swedan, Vastikarma etc. But according to Charakachrya Virechankarrna is the specific treatment for Pakshaghat roga. In Ayurveda there are specific treatments for pakshaghata. There are two types of treatment. One is Sodhan therapy and second is Shaman therapy. Shodan means purification of the body by eliminating morbid Doshas and Dushyas from body through Panchkarma, and main principal of Shaman therapy is to normalize and maintain the equilibrium of all their Doshas. After the Shodhan therapy comete Shaman chikitsa is indicated for pacifying reminant Doshas.

In the present stage of socio-economic life the trend of disease management is to find out more effective, easily available and quickly responding remedies, which do not have any ill effect on health and longevity of the patient.

The modern scientific mind is not satisfied by only giving statements, no matter from what source they originate, unless and

until collaborated by clinical and experimental proof. if this could be achieved, *Ayurveda* could be brought into mass of humanity in the world.

#### Address for correspondence.

Lecturer, Department of roga and vikriti vijnana,

Government Ashtang Ayurvedic College and Hospital,

Lokmanya Nagar,Indore, Madhyapradesh,India.Email:drmanoj.gupta505@g mail.com mob: 07566212661

#### Aim and objectives

To evaluate the effect of *Virechan* karma in the management of *Pakshaghat* (Hemiplegia)

To assess the clinical effectiveness of *Pakshaghatari Guggulu yog and Virechan Karma* on *Pakshaghat* i.e. *Shodhan (virechan) Purvak Shamak Chikitsa*.

To compare the effectiveness of both i.e. Shodhan Purvak shaman and Shaman Chikitsa

#### Material and Method

For the present study 30 patients will be selected irrespective of their age, sex, religion etc. from OPD and IPD of Govt. Dhanwantri Ayurvedia Hospital, Ujjain. These 30 patients subdivided into 3 groups.

**Group A**:Patient will treat with *Virechan* therapy and after that placebo will be given total 30 days are required.

**Group B**: In this group after *Virechan* and *Samsarjan krama* the research drug will be given up to 30 days.

**Group C:** In this group only research drug will be given total course will be 30 days.

Detailing of clinical study has been projected under the following manner.

## Criteria of Diagnosis

The main Criteria of diagnosis of the patient were based on cardinal as associated symptoms mentioned in classical texts and parameter of nervous system examination.

#### **Criteria of Inclusion**

Fully conscious patients

All the patients of Pakshaghat above the age of 20 year

## **Criteria of Exclusion**

Unconscious patients. Lost bowel and bladder control. Complicated with heart diseases. Intra cranial infection meningitis etc. Trauma, cerebral tumor, cerebral abscess. Marked impaired mental function.

#### **Criteria of Assessment**

scoring system was adopted for cardinal as associated sing and systems (*Doshanubandhi lakshan*).

#### Signs &Symptoms

#### Loss of speech (Vaksanga)

Normal Speak with difficulty Speak few words Utter voice Aphasia

## **Finger movement**

Normal Able to bold object Unable to bold object Slight No

#### Lifting of Arm at shoulder/Leg at Hip joint (Flexion Extension)

Up to to 180 Up to 135 Up to 90 Up to 45 No

## Standing from sitting

Normal Without support With support Unable Normal Mild rigidity Moderate rigidity Seven rigidity

#### Loss of Muscle power

Normal Not against resistance Power detachable when gravity excluded Flicker Complete paralysis

#### Loss of sensation (Achetana):-

Normal Mild sensory loss Moderate sensory loss Sever to total Sensory loss

#### Walking time (cover given distance in time [10 meter])

Less than 1 min Between 1-1:30 min Between 1:30-2min More than 2min Can't Walk

#### Hand grip power by sphygmomanometer

Above 40 mm Hg 30-40 mm Hg 20-30 mmHg 10-20 mm Hg 0-10 mm Hg

## Foot pressure on weighing machine

Above 40 kg 30-40 kg 20-30 kg 10-30 kg 0-10 kg

## Reflexes

Normal Brisk Very **Scoste** Clonus

0

## *Ruja* (Pain)

No pain Only after some extension Less frequently Very frequently

#### Gourava

Normal Mild *Gaurav* Moderate *Gourav* Sever3*Gourav* 4

## Sotha

No Sotha Mild **9**otha Modeltate Sotha Severte Sotha

## Associated signs symptoms

No deviation of face Slightly present Moderately present Markedly present

2 On the basis **g**f various haematological and biochemical parameter Routine hematological investigation like Hb, TLC, DLC, ESR. Were done before and after the treatment bio-chemical investigation like FBS and serum cholesterol were also done.

**Plan of study**<sup>3</sup>. - Pakshaghat is a Kricchsadhya Vyadhi. The therapeuticmeasures should be able to assuage symptoms and provide maximum relief to the patients. Bearing this in mind patients of Pak@haghat were chosen from O.P.D. & I.P.D. of Govt. Dhanwantri AyuArved hospital irrespective of age, sex, and religion & exclusion criteraton were taken into account before choosing the patients for the3clinical trial. The patient was examined thoroughly and progress of the malady noted precisely weekly. Three group were made underneath is the details.

Three group were designed for the present study

**Group A**: - *Shddhan* group incorporated patient that were given *Shodhan* therap? i.e. *Virechan* and after placebo were given.

Group-B: - encompassed patient that were given Shodhan therapy than Shaman drug Pakshaghatari Guggulu is given.

Group	Details of Group	Number patients registered	of	Number of patients completed the course	Duration of course	Drug of choice
А	<i>Shodhan</i> group + placebo	10		10	30 daysd	Virechankarma + placebo
В	Shodhan therapy + Shaman drug	10		10	30 days	Virechankarma followedby pakshaghatari Guggulu
С	Shaman Group	10		10	30 days	Pakshaghatari Guggulu

#### **Group A-Shodhan Group**

10 patients were registered in this group All patients completed the course. In this category, snehan svedan than virechan karm was this is followed by dispensing of capsule of placebo Following is the schedule following in this group.

S. No.	Therapy	Time Duration	Drug and Dosage
1	Dipan Pachan	3 days	Trikatu Churna 5 gm B.D.
2	Abhyantar Snehan	5-7 days*	25-175 ml in increasing order daily increasing by 25 ml (Murchit Til tail)
2 3	Bahya Snehan and Svedan	3 Annakals	Murcchit til tail for Snehan, Bahya Sarwang Svedan with Dashmool Kwath.
4	Virechan karm	Morning **	Haritaki - 20 gm
			<i>Trivrita</i> - 20 gm
			Aragvadha - 20 gm
			<i>Kutaki</i> - 20 gm
			200 ml kwath of above drug was prepared 30 ml Erand tail was added to
			it.
5	Samsarjan Karm	3-7 days***	Peya, Vilepi, Akrityush, krit yush, Akrit krishara, Krit Krishara Ardhahar,
			Purnaharar in chronological order ***
6	Placebo	15 days****	Glucose Capsule Dose - 2 BD
			Mode of Dispensing
**Empty stomacl	nyak Snigdha Lakhans. 1 in the morring 9:00 A.M.		Glucose was dispended in the form of capsule of 125mg.
***Depends on Same Same Same Same Same Same Same Same	hudhi Prakar Uttam, Hin M Shudhi:	adhyam.	Anupan:-Anupan of Virechan kalp & placebo is Leukwarm water.
•	f course 30 days step 1-6	was followed in sys	stemic Aushadhkal:-Virechana kalp in preribed in morning hours after sunrise at 9:00 A.M. placebo given after meals.
Method of prep	ration		<b>Group B:</b> -Shodhan therapy than Shaman drug group 10 patient were registered in this group all patient completed this course: I this category. Snehan syedan than Virechan karm was performed th

Method of prepration Murcchit til tail and Virechan has been described in Drug review section.

nts In this category, Snehan svedan than Virechan karm was performe this was succeeded by Samsarjan karm which relied in the type of Shudhi achieved in Virechan. Thes is following in the schedule followed in this group

S. No.	Therapy	<b>Time Duration</b>	Drug and Dosage
1	Dipan Pachan	3 days	Trakatu Churna 5 gm B.I.D.
2	Abhyantar Snehan	5-7 days*	25-75 ml in increasing order daily increasing by 25 ml* Drug = <i>Murchit Til tail</i>
3	Bahya Snehan and Svedan	3 Annakals	Murcchit til tail for Snehan, Bahya Svedan with Dushmool Kwath.
4	Virechan karm	Morning **	Haritaki - 20 gm Trivrita - 20 gm Aragvadha - 20 gm Kutaki - 20 gm 200 ml Kwath of above drug was prepared 30 ml Erand tail was added it.
5	Samsarjan Karm	3-7 days***	Peya, Vilepi, Akrit, krit, yush, Akrit, Krishara, Krit, Krishara, Ardhahar, Purnahar in chronological order***
6	Shaman drug	30 days****	Pakshaghatari Guggulu**** Dose 5 gm BID

\*Depends on Samyak snighdha lakshan.

\*\*After sunrise in the morning 9:00 A.M.

\*\*\*Depends on shudhi prakar-Uttam, Hin Madhyam.

\*\*\*Depends on shudhi total duration of course 30 days step 1to 6 was followed in systemic order.

#### Method of preparation

Method of murcchit til tail and virechan kalp has been described in drug review section

#### **Method of Dispensing**

Pakshaghatari Guggulu was dispensed in the form of pouch according to dose. Anupan

#### water. **Anushadhka**l

Virechan kalp is described in morning hours after sunrise at 9.00 A.M.& pakshaghatri Guggulu is given after meals. Group C- Shaman Group

Anupan of virechan kalp and Pakshaghatari Guggulu is Leukwarm

10 patients were registered in the group and all patients completed this course Pakshaghari Guggulu was administered to 10 patients.

#### **Method of Preparation**

Method of preparation has been specified in drug review section.

"period test " The calculated value was compared with tabulated

value and the Sequel assessed at various probabilities The results

-p < 0.01

-p < 0.001

obtained were interpreted as :-

Significant

Highly Significant

**Observation and results** 

**Mode of Dispensing** 

1gm tablet given for 2 gm BID Dose for 30 days duration.

Dose and Anupana : 2gm BID with lukewarm water

Aushadhkal :After meals.

## **Statistical Analysis**

The result of the therapy was assessed after accomplishment of the

treatment All the available data was statically analyzes by applying

Table1: Total Effect Cardinal Sign & Symptoms of 10 patients of Hemplegia in Group A.

Sign Symptoms	B.T.	A.T.	D	% Relief	S.D. <u>+</u>	SE <u>+</u>	t	Р
Finger movement	2.8	1.5	1.3	52.00	0.95	0.30	4.33	< 0.01
Lifting arm & leg	3.1	1.6	1.5	48.39	0.97	0.31	4.84	< 0.001
Standing from sitting	1.67	0.78	0.89	53.33	0.60	0.2	4.45	< 0.01
Loss of speech	2.2	1.6	0.6	27.27	0.70	0.22	2.72	< 0.05
Loss of sensation	2.7	1.3	1.4	51.85	1.07	0.34	4.12	< 0.01
<i>Ruja</i> (Pain)	2.7	0.4	2.3	85.19	0.82	0.26	8.83	< 0.001
Gourav	2.8	1.1	1.7	60.7	0.677	0.21	7.96	< 0.001
Shotha	3.1	01	2.1	67.74	0.32	0.1	21	< 0.001
Muscle tone	3.2	1.5	1.7	53.13	1.21	0.38	4.47	< 0.01
Muscle power	3.7	1.4	2.3	62.16	0.82	0.26	8.83	< 0.001
Reflexes	1.13	0.8	3.33	29.20	0.19	0.13	2.54	< 0.05
Walking time	3.1	0.8	2.3	74.19	0.68	0.21	10.78	< 0.001
Hand grip	3.3	1.2	2.1	63.63	1.29	0.41	5.12	< 0.001
Foot pressure	2.5	1.1	1.4	56.00	1.17	0.37	3.78	< 0.01
Associated symptom	3.2	1.5	1.7	53.13	1.21	0.38	4.47	< 0.01

Table2: Total Effect Cardinal Sign & Symptoms of 10 patients of Hemplegia in Group B.

Sign Symptoms	B.T.	A.T.	D	% Relief	S.D. <u>+</u>	SE <u>+</u>	t	Р
Finger movement	2.3	0.9	1.4	60.87	0.52	0.16	8.57	< 0.001
Lifting arm & leg	2.3	0.9	1.4	60.87	0.52	0.16	8.57	< 0.001
Standing from sitting	2.2	0.7	1.5	68.18	0.70	0.22	6.71	< 0.001
Loss of speech	2.5	1.1	1.4	56.00	1.17	0.37	3.78	< 0.01
Loss of sensation	2.8	1.2	02	62.5	0.667	0.211	9.487	< 0.001
Ruja (Pain)	2.4	0.1	2.3	95.85	0.48	0.15	15.06	< 0.001
Gourav	2.3	0.6	1.7	73.91	0.48	0.15	11.13	< 0.001
Shotha	02	0.4	1.6	80.00	0.966	0.31	5.4	< 0.001
Muscle tone	3.7	0.8	2.9	78.38	1.10	0.35	8.33	< 0.001
Muscle power	3.1	0.8	2.3	74.19	0.67	0.21	10.78	< 0.001
Reflexes	2.67	1.3	1.37	50.00	0.87	0.29	4.48	< 0.001
Walking time	3.4	0.4	3	88.25	0.67	0.21	14.23	< 0.001
Hand grip	2.9	0.8	2.1	72.41	0.73	0.23	09	< 0.001
Foot pressure	2.2	0.7	1.5	68.18	0.70	0.22	6.70	< 0.001
Associated symptom	3.3	0.9	2.4	72.72	0.97	0.31	7.74	< 0.001

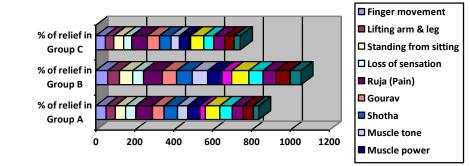
#### Table3: Total Effect Cardinal Sign & Symptoms of 10 patients of Hemplegia in Group C.

Sign Symptoms	B.T.	A.T.	D	% Relief	S.D. <u>+</u>	SE <u>+</u>	t	Р
Finger movement	03	1.5	1.5	50.00	0.71	0.22	6.8	< 0.001
Lifting arm & leg	2.4	1.4	1.1	41.67	0.82	0.26	3.85	< 0.01
Standing from sitting	2.7	1.3	1.4	51.85	1.07	0.34	4.12	< 0.01
Loss of speech	2.2	1.5	0.7	31.81	1.25	0.40	1.77	>0.05
Loss of sensation	2.4	1.4	01	41.67	0.82	0.26	3.85	< 0.01
Gourav	3.7	1.34	2.3	62.7	0.671	0.213	7.96	< 0.001
Shotha	3.2	1.3	1.9	59.38	0.74	0.233	8.14	< 0.001
Muscle tone	2.38	1.38	01	42.10	0.76	0.27	3.70	< 0.01
Muscle power	2.7	1.3	1.4	51.85	1.07	0.34	4.12	< 0.01
Reflexes	1.93	1.8	0.13	6.74	0.35	0.09	1.44	>0.1
Walking time	1.8	0.6	1.2	66.66	0.79	0.45	4.81	< 0.001
Hand grip	2.8	1.5	1.3	52.00	0.95	0.30	4.33	< 0.01
Foot pressure	2.9	1.3	1.6	55.17	1.67	0.52	3.08	< 0.02
Ruja (Pain)	02	0.4	1.6	80.00	0.97	0.31	5.24	< 0.001
Associated symptom	3.25	1.63	1.62	50.00	0.92	0.32	5.08	< 0.01

Table4: Percentage of relief in cardinal sings & symptoms of Hemplegia in all three Groups.

Symptoms	% of relief in Group A	% of relief in Group B	% of relief in Group C	Total %
Finger movement	52.00	60.87	50.00	54.29

Lifting arm & leg	48.39	60.9	41.67	50.32
Standing from sitting	53.33	68.18	51.85	57.78
Loss of sensation	51.85	56.00	41.67	49.84
Ruja (Pain)	85.19	95.85	80.00	87.01
Gourav	60.70	73.91	62.7	65.77
Shotha	67.74	80.00	59.38	69.04
Muscle tone	53.13	78.38	42.10	57.87
Muscle power	62.16	74.19	51.85	62.73
Reflexes	29.20	50.0	6.74	28.64
Walking time	74.19	88.25	66.66	76.36
Hand grip	63.63	72.41	52.00	2.68
Foot pressure	56.00	68.18	55.17	59.78
Associated symptom	53.13	72.72	50.00	58.61
Loss of speech	27.27	56.00	31.81	38.36



Figures 1: Percentage of relief in cardinal sings & symptoms of Hemplegia in all three Groups

Table 5: show t value and P value of the Symptoms after one month clinical trial (if P value<0.20 to >0.05=insignificant, if P value≤0.05 to>0.01=significant, if P value ≤0.01 to <0.001= highly significant)</td>

	% of relief in	GROU	PA	S	% of relief in	GROUI	РB	N,	% of relief in	GROU	IP C	ŝ
Symptoms	Group A	t	Р	Results	Group B	t	Р	Results	Group C	t	Р	Results
Finger movement	52.00	4.33	<0.01	S	60.87	8.57	<0.001	H.S	50.00	6.8	<0.001	I.S
Lifting arm & leg	48.39	4.84	< 0.001	H.S	60.9	8.57	< 0.001	H.S	41.67	3.85	< 0.01	S
Standing from sitting	53.33	4.45	< 0.01	S	68.18	6.71	< 0.001	H.S	51.85	4.12	< 0.01	S
Loss of sensation	51.85	2.72	< 0.05	S	56.00	3.78	< 0.01	S	41.67	1.77	< 0.05	S
Ruja (Pain)	85.19	4.12	< 0.01	S	95.85	9.487	< 0.001	H.S	80.00	3.85	< 0.01	S
Gourava	60.70	8.83	< 0.001	H.S	73.91	15.06	< 0.001	H.S	62.7	7.96	< 0.001	H.S
Shotha	67.74	7.96	< 0.001	H.S	80.00	11.13	< 0.001	H.S	59.38	8.14	< 0.001	H.S
Muscle tone	53.13	21	< 0.001	H.S	78.38	5.4	< 0.001	H.S	42.10	3.70	< 0.01	H.S
Muscle power	62.16	4.47	< 0.01	S	74.19	8.33	< 0.001	H.S	51.85	4.12	< 0.01	S
Reflexes	29.20	8.83	< 0.001	H.S	50.0	10.78	< 0.001	H.S	6.74	1.44	>0.1	I.S
Walking time	74.19	2.54	< 0.05	S	88.25	4.48	< 0.001	H.S	66.66	4.81	< 0.001	H.S
Hand grip	63.63	10.78	< 0.001	H.S	72.41	14.23	< 0.001	H.S	52.00	4.33	< 0.01	S
Foot pressure	56.00	5.12	< 0.001	H.S	68.18	09	< 0.001	H.S	55.17	3.08	< 0.02	S
Associated symptom	53.13	3.78	<0.01	S	72.72	6.70	< 0.001	H.S	50.00	5.24	< 0.001	H.S
Loss of speech	27.27	4.47	< 0.01	S	56.00	7.74	< 0.001	H.S	31.81	5.08	< 0.01	S

Table5: Total effect of therapy on laboratory parameters of 10 patients of Group A

Parameters	B.T.	A.T.	D	% Relief	S.D. <u>+</u>	SE <u>+</u>	t value	р
Hb%	13.45	13.7	-0.25	1.86↑	13.18	0.42	-0.6	>0.10
TLC	8040	7730	2310	3.86	769.5	243.33	1.274	>0.10
ESR	10.3	11	-0.7	6.796	5.677	1.795	-0.389	>0.10
S.Cho.	197.1	188	9.1	4.6169	13.543	4.282	2.1247	>0.05
F.B.S.	93	91.7	1.3	1.3978	9.393	2.970	0.4377	>0.10

## In Group A

Hb% was increased by 1.86% that was statistically insignificant (p >0.10)

TLC was decreased in Group A 3.86% change was seen in readings, that wss statically insignificant.

E.S.R. was increased in Group A 3.86% change was seen in readings, that was statically insignificant.

S.Cholesterol. was decreased by 4.61% Group A that was also insignificant

F.B.S. was found to be decreased by 1.39% in Group A that was also insignificant statistically.

Table6: Total Effect of therapy on laboratory parameters of 10 patients in Group B.

Parameters	B.T.	A.T.	D	% Relief	S.D. <u>+</u>	SE <u>+</u>	t value	р
Hb%	13.3	13.95	-0.65	4.88↑	1.415	0.447	-1.452	>0.10
TLC	7420	7860	-440	5.92个	840.89	265.91	-1.654	>0.10
ESR	11.2	10.9	0.3	2.67个	6.037	1.909	-0.157	>0.10
S.Cholesterol.	189.8	199.7	-2.9	1.5279↑	16.76	5.299	-0.547	>0.10
F.B.S.	102.8	90.5	13.5	13.035	26.442	8.3615	1.603	>0.10

## In Group B

Hb% was increased by 4.88% in group B that was insignificant.

TLC was increased by 5.92% in Group B that was insignificant.

E.S.R. was decreased by 2.68% Group B that was insignificant.

S.Cholesterol. was increased by 1.527% in Group B that was statistically insignificant.

F.B.S. was decreased by 13.03% in Group B that was statistically insignificant.

Table7: Total Effect on laboratory parameters of 10 patients in Group C.

Parameters	B.T.	A.T.	D	% Relief	S.D. <u>+</u>	SE <u>+</u>	t value	р
Hb%	13.65	14.4	-0.85	6.2271↑	1.415	0.448	-1.899	>0.05
TLC	8230	8040	190	2.307	1189.26	376.07	0.505	>0.10
ESR	13.6	12.7	0.9	6.6176	5.971	1.88	0.476	>0.10
S.Cholesterol.	198.9	188.6	10.3	5.1784	11.035	3.489	2.9514	>0.02
F.B.S.	97.1	94.1	03	3.0895	08	2.529	1.1858	>0.10

#### In Group C

Hb% was increased by 6.22% in Group C that was statically insignificant.

TLC was decreased by 2.31% in Group C that was insignificant.

E.S.R. was decreased by 6.62%, S.Cholesterol. was decreased 5.18%, F.B.S. was decreased by 3.08% in Group C that all are statistically insignificant.

## CONCLUSION

Table8: Total Effect of therapy of 30 patients of Hemiplegia

Total Effect	Group A		Group B		Group C		Total	%
	No. of Pt.	%	No. of Pt.	%	No. of Pt.	%		
Complete cure	00	00	01	10	00	00	1	3.33
Marked improvement	04	40	05	50	03	30	12	40
Moderate improvement	06	60	04	40	05	50	15	50
Mild Improvement	00	00	00	00	02	20	2	6.66
Unchanged	00	00	00	00	00	00	00	00

Complete remission was found in 10% in Group B only. As a whole of 30 patients studied, complete remission was found in 3.33% in Group B As a whole of 30 patients studied complete cure was found in 3.33%. Marked improvement was obtained in 40% in Group A, 50% patients of Group B, 30% patients of Group C. As a whole of 30 patients studied marked improvement was found in 40%. Moderate improvement was obtained in 60% in Group A, 40% patients of Group B 50% patients of Group C. As a whole of 30 patients studied moderate improvement was found in 50%. Mild improvement was found in 20% in Group C only. As whole of 30 pt. studied mild improvement was found 6.66%. No patient remained unchanged by this therapy.

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