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# Management of delayed milestone's patient with Ayurveda - A case report

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# **ABSTRACT**

Children, who are opposite to adults are characterized by a continuous process of physical growth and neuromotor development. Milestones are the predicted points for when a child reaches a significant stage in their development such as walking or talking. A delayed milestone is when a child has not reached a significant stage at the predicted age. In the world, about 6.6% of children suffer from developmental delay while 15- 20% of children suffer from cerebral palsy. A 2-year-old male patient with gross developmental delay with seizure disorder, EEG showing Hypoxic Ischemic Encephalopathy (HIE) received Ayurvedic treatment for about 6 months. At the end of 3 months, the patient showed very encouraging results. The patient was treated with Shaman Chikitsa, Shirodhara, Nasva. Basti. Marmapidan, Viddhakarma. Aim of the of Study was to treat the patient and bring him back to normal growth and development. In this single case study, the patient was thoroughly examined clinically his gross motor, fine motor, language, and personal and social developmental milestones were noted before treatment. Patient's improvements were assessed on Trivandrum Developmental Screening Test (TDST)after 6 months Ayurvedic treatment. As a result, the patient achieved many milestones during treatment.

**Keywords:** Delayed Milestones, Hypoxic Ischemic Encephalopathy (HIE), *Panchakarma*.

#### INTRODUCTION

Delayed development has always demanded more attention from paediatrician. Delay in reaching gross motor, fine motor, personal and language milestones is called developmental delay. Developmental delay may be caused by a variety of factors, including intrauterine infections, postnatal CNS infections, immaturity, perinatal hypoxia, birth trauma, metabolic disorders and complications during pregnancy. [i] Development is also dependent on interaction between innate genetic potential and environment factors. [ii]

#### PATIENT INFORMATION

A 2 years old male child was brought by his parents in Balrog OPD of Government ayurvedic college Nagpur. Patient was in BPL category. Father was working on Daily Wedge and mother was house wife living in Physically ioint family. patient has appearance of idiotic look, head lag and spastic scissor gait, complaints that unable to turn on tummy, unable to sit with support, Unable to stand with support and walk, Head was lagging neck holding yet to develop and Jerking movements of hands and legs during sleep since last 12 months of age. After taking patients history during pregnancy child's mother was suffering from asthma since 6<sup>th</sup>month of pregnancy. She was using inhaler bronchodilators. Father was Suffering from Poliomyelitis (Paraplegia). Child was full term delivered by L.S.C.S. Birth weight was 2.5 kg, baby didn't cry immediately after birth. Admitted in N.I.C.U for one month after birth. No history Pneumonia/pathological jaundice or other major illness at or after birth. At the age of 1

yr patient suffered from seizure episode from that time patient was receiving Syp Varparin. 4 ml BD, Syp Neurokind 2.5ml BD, Syp. Gardenal 2.5ml BD. In Family History no consanguinity is found. In **Immunization** history immunization completed up to 2 yrs of age as per schedule. Patient was taking breast milk and other semi-solid food. Appetite was good. (Uttam Kshudha). Patient was always on bed, had not achieved even neck holding and extra drooling of saliva is present since birth. Not achieved bowel and bladder control. Other vitals were normal.

#### **CLINICAL FINDINGS**

Child was unable to do eye contact. Upward gaze, Swallowing difficulty, Spasticity in both upper and lower limbs. Do not move to the sound. Drooling of saliva. Child had constipation and irregular bowel habit. Tongue (Jiwha) was Alpasaam. Child was unable to speak even monosyllables. He was not responding to any verbal communication. His eyes had convergent squint in left eye. General examination: Appearance- mentally retarded, body build- lean, orientation- less oriented, pallor (conjunctiva)absent. Icterus- Absent. Child was conscious, less oriented, well Alert. Patient is diagnosed to have hypertonia (spasticity) and contracture at both elbow joint. Muscle power was not obtained because patient is unable to follow commands. Sensory system was intact and no abnormality found.

C.T scan (13/10/2021) showed Hypoxic Ischemic Encephalopathy, EEG (13/10/2021)-Showed abnormal EEG pattern and seizures during sleep. MRI was not done due to poor economic condition of patient.

After OPD examination patient was diagnosed with Hypoxic ischemic encephalopathy (HIE) with global developmental delay with seizure disorder.

# 4. Therapeutic interventions and assessment

For above clinical presentation patient was treated with Snehan [iii] (massage with medicated oil) Swedan (steam), Shirodhara (pouring a liquid onto the forehead), Nasva [iv] (administration of drug by nasal root), Annalepan (where rice is directly applied to an individual's body), Jiwha Pratisaran (rubbing of tongue), Marmapidan (Marma point therapy) and Snehapan (internal oleation). First cycle of treatment was given from 2 June 2022 to 4 June 2022 Snehan was done with Mahamash Tail and Swedan (Nadi Swed) was done. Shirodhara with Brahmi and Dhanvantar Tail, Nasya with Anu Tail, **Annalepan** with Shashtishali, Udad, Bala Churna and Ashwagandha Churna. Jiwha pratisaran with Vacha +Yashtimadhu+Akkalkara. Snehapan with Kumar Kalyan Ghrit 10 ml BD and Arvindasav 5 ml BD. Marmapidan of Shirastha (Sthapani, Avarta, Shakha, Apang, Shrungatak, Adhipati and Krukatika), Shakha Marma (Kshipra, *Talhriday* Kurcha, Kurchashir, Manibandha, Indrabasti, Kurpar, Janu, Aani, Bahavi, Lohitaksha, Kakshadhar, Vitap) and Prushta Marma (Kukundara, Nitamba. Parshvasandhi, Brihati, Ansaphalak, Ansa) is done. Second cycle of treatment was given from 10 July 2022 to 30 July 2022 Snehan with Chandan Bala Lakshadi Tail and Swedan. Shirodhara, Marmapidan and Annalepan was continued like first cycle. Nasya with Shadbindu Tailwas given (As patient was suffering from

Pratishay) Then again Anu Tail Nasya is started. Basti started after proper Dipan Pachan of patient. Majja Basti is given. Kumar Kalyan Grit dose was reduced to 5 ml BD. Brihan Yog (A mixture of Shishubharan Ras, Ashwagandha, Brahmi, Yashtimadhu, Aamalki, Shatavari, Tapyadi loh are mixed properly and ½ tea spoon with Goghrit Anupan) was given BD. Jivha Pratisaran with Vaacha, Yashti and Akkalkara. Sitopaladi and Yashtimadhu with honey is given. In third cycle of treatment child was given Panchatikta Kwath, Panchatikta Grit and Mahasneha Basti. Other treatment was same as second cycle.

## 5. Fallow up and outcomes

Outcome after first three cycle is mentioned in Table No 1. In Jan 2023, Aug 2023 and in June 2024 also patient continued the treatment for 1-1 month

### DISCUSSION

after Treatment was started *Koshtashuddhi* of patient. For *Koshtashuddhi* Snehapana Gandharva Haritaki Churna is given sos. Then in the first cycle of treatment Mahamash Snehan was given to strengthen the Mamsa Dhatu. [v] and Swedan was given to reduce the spasticity of muscles. Brahmi Tail was selected to stimulate the brain activity [vi] and Dhanvantar tail is used for Vaatshaman and Poshan. [vii] As we know Shrungatak Marma is responsible for development of senses, so in order to develop speech and other senses Anu Tail Nasya is given. [viii] Annalepan is done in order to increase Bal of Mamsa Peshi (muscle strenghth). Arvindasava is used as Sarva Bal Vyadhi, Grahdoshhar. [ix] Marmapidan is done to improve the blood flow, to reduce spasticity.

In second cycle *Nasya* with *Shadbindu Tail* is given as patient was suffering from *Pratishay* then again *Anu Tail Nasya is started. Jivhapratisaran* is done to promote speech. *Sitopaladi Churna* with *Yashtimadhu* is given because *Shirodhara* was continue even during *Varsha Rutu to* avoid *Vyapad* like *Pratishay* it is given.

In third cycle *Panchendriya Vardhan Tail* is used to develop all *Indriyas*. For *Asthi Poshan* and *Vardhan Basti* with *Panchatikta Kwath* + *Panchatikta Ghrit* + *Mahasneha* is given.

#### PATIENT'S OPINION

In June 2022, I visited the doctor for my 2 years child as he was suffering from scissor and most of the time he just sleeps like newborn baby. He was just eating and sleeping, he doesn't have even neck holding. After meeting doctor, I was counselled about his condition and treatment. After starting treatment gradually, he started holding neck. He stopped rolling his eyes. started sitting with support and standing with support. He started understanding things making eye contact and started smiling. In Jan 2023, Aug 2023 and in June 2024 I continued the treatment and now he can walk with the support. He can individually step down the bed, he drinks water by himself. Try to eat food by himself. Says mamma, papa. When we inquire where his nose is, he points it out. He tries to wear clothes and shoes. Adore himself in the mirror. He listens to everyone and follow commands.

# **CONCLUSION**

Developmental delay due to HIE is a common problem in paediatric practice. Damaged neurons cause developmental delay in gross motor, language and social milestones. There is no effective treatment till date for developmental delay due to brain damage. Ayurvedic treatment definitely help to reduce disability and improve the growth and development of the patient. Unlike Morden medicine ayurveda do not sedate the patient it works on *Dosha*, *Dhatu* and promotes the development of the patients.

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Table no 1: TRIVANDRAM DEVELOPMENTAL SCREENING TEST (TDSC) [x]

Sr	Item	Lower	Upper	Before	After 1st	After 2 <sup>nd</sup>	After 3 <sup>rd</sup>
no.		limit	limit	treatment	cycle of	cycle of	cycle of
					Treatment	Treatment	treatment
					(2/6/2022	(10/7/2022	(5/8/2022
					to	to	to
					4/7/2022)	30/7/2022)	3/9/2022)
1	Social	1 day	2 months	Unable to	Giving	social smile	social
	smile			do Eye-to-	slight smile	present	smile
			11 D .	eye	_		present
			A CONTRACTOR OF THE PARTY OF TH	contact			
2	Eyes	1months	3 months	No eye -	Only	Fallow for	Fallows
	fallow	3 days	$N_{JRA}$ S	to-eye	Follow for	30-35 sec	the object
	object		2	contact	few sec	** 11 1 1	** 11
3	Holds	1months	3 months	Head was	Holds head	Holds head	Holds
	head	3 d	24 d	lagging	for few sec	for 25 sec	head for 1
	steady	2 4	4 .1	G .:		D 11 C	min
4	Rolls from	2 months	4 months	Spastic	Trying to	Rolls from	Rolls from
	Back to Stomach	21 d	24 d	body	roll from back	back to stomach for	back to stomach
	Stomach				Dack	few min	and even
						iew iiiii	started
							crawling
5	Turns	3 months	5	Head was	Hold head	Holds head	Able to
	head to the	3 months	months24	lagging	for a min	but tremors	hold as
	sound		d	14551115	101 4 11111	present	well as
	Source		G			present	turn
6	Transfer	4 months	7 months	Spasticity	Not able to	Able to	Able to
	Objects	3 d		presents	hold the	hold light	hold the
	hand to			no grip	object.	toys. (Pen)	small toys.
	hand				Spasticity		Bidextrus
					reduced		grip

7	Raises self to sitting position	5 months24 d	11 months	Unable to roll back	Trying to roll from back	Unable to sit	Sitting with support
8	Standing up with support	6 months 9 d	11 months	Not able scissor gait present	Not able to stand scissor gait still present	Not able to stand scissor gait reduced	Able to sit with support scissor gait reduced but spasticity still present
9	Fine prehension pellet (pincer grasp)	6 months 24 d	11 months	Spasticity presents no grip	Not able to hold the object. But spasticity reduced	Bi-dextrous grasp	Tries to grasp
10	Pat a cake	6 months 24 d	months 21 d	Not able to perform	Not able to perform	Tries to move hands on stimulation	Moves hands but unable to pat a cake
11	Walks with help	7 months 24 d	months	Spastic Scissor gait present	Spastic Scissor gait present	Spasticity, reduced Scissor gait	Spasticity reduced but unable to stand with support tip toe standing
12	Throws ball	9 months 15 d	16 months 24 d	Not able to	No	No	Able to hold but Unable to throw
13	Walks alone	9 months 27 d	17 months 12 d	Not able to walk	Not able to walk	Not able to walk	Not able to walk
14	Says two words	11 months 6 d	19 months	Not able to say words	Not able to say words	Responds to sound	Cooing present
15	Walk backwards	11 months 6 d	19 months 15 d	Not able to walk	Not able to walk	Not able to walk	Not able to walk
16	Walk upstairs with help	12 months 6 d	24 months 15 d	Not able to walk	Not able to walk	Not able to walk	Not able to walk

17	Points to	15	24	Not able	Not able	Not able	Not able
	parts of	months 9	months				
	doll (3	d	15 d				
	parts)						
18	Remove	21	25	Not able	Not able	Not able	Not able
	garments	months	months				
19	Uses	24	27	Not able	Not able	Not able	Not able
	words for	months	months				
	1 personal						
	needs						

(Patients chronological age was 25 months but mental age was only of 1 month)

Table no 2: PATIENT'S IMPROVEMENT ASSESSMENT CHART

Sr no	Milestones	Before treatment	After treatment
1	Neck holding	Absent	present
2	Roll over	Absent	present
3	Social smile	Absent	present
4	Sitting with support	Absent OO	present
5	Standing with support	Absent	present

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