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"Ayurvedic Perspectives On Attention Deficit Hyperactivity Disorder (Adhd): A Review"

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Abstract: Attention Deficit Hyperactivity Disorder (ADHD) is the most common neurological disorder of childhood. In this growing era of competition children suffering with ADHD find it difficult to cope up and even for parents and teachers to exactly determine the distinguishing factor for the children. *Ayurveda* is found to be the world's oldest and most complete holistic healing modality. So, this article deals with the general knowledge about ADHD and an *Ayurveda* approach towards its causes, pathophysiology and treatment which include the basic treatment of *Manas Roga Chikitsa* i.e *Daiva-Vyapashraya Chikitsa*, *Satvajay Chiktisa* and *Aushada Chikitsa*.

Keywords- *Manas Roga Chikitsa*, *Daiva-Vyapashraya Chikitsa*, *Satvajay Chiktisa*. behavioral, neurological hyperactive disorders

INTRODUCTION

According to the *Ayurveda* theory there are three main types of substances constitutions make up the body. These constitutions are often termed as *Doshas*. Every person has a unique relative to the *Dosha*. The predominance of *Dosha* and the relationship with *Aakash*, *Vayu*, *Agni*, *Jala*, and *Pruthvi*. These *Panchmahabhoota* combine to make *Vata*, *Pitta*, and *Kapha Dosha*. *Vata Dosha* having more *Vayu* and *Aakash*, *Pitta* being more *Agni*. *Pruthvi* and *Jala* form *Kapha Dosha*. The equilibrium of these three *Doshas* helps them to regulate their own effects. The disequilibrium brings out the true values of an individual while the disequilibrium brings out the deterministic features of the individual disease. One such ailment that widely affects people today is attention deficit hyperactivity disorder. it is a one of the most common mental disorders characterized by symptoms of inattention, hyperactivity and impulsivity. It affects 5 to 8% of children more common in boys than girls. Typically emerging in childhood ADHD affects an individual's ability to focus, remain calm and control their impulses. Furthermore, ADHD is often accompanied by secondary symptoms such as insomnia, learning disabilities and delayed language development. These symptoms can impact various aspects of an individual's life including cognitive function, academic performance, behaviors, emotional well-being and social interactions.

Ayurveda Perspective in ADHD

In *Ayurveda* directly description of ADHD is not found. Only abnormal behaviors are discussed under *Unmada*, which shares similar symptomatologic manifestations. *Unmada* is a *Vata-Pitta* Dominant Disorder *Sarva-Dosha* (involving physical and mental doshas) disorder, characterized by *Mano Vibhrama* (mental instability) *Buddhi Vibhrama* (intellectual instability) *Smriti Vibhrama* (memory instability) *Sheela Vibhrama* (emotional instability) *Cheshta Vibrama* (action instability) *Achara Vibhrama* (behavioral instability). *Unmada* is a *Manovaha Shroto Vikara* involving an imbalance of *Raja* and *Tama guna*.³ According to *Acharya Kashyap Pralap*, *Vaichitya* and *Arti* mentioned under *Unmada Vyadhi* ⁴

which are similar with ADHD symptoms. The features of Rakshas Rajasik Manas Prakriti and Matsya Tamsika Manas Prakriti are similar to ADHD symptoms which can be correlated by Unmada, Dhee (logical reasoning) Dhriti (mental capacity to store information) Smriti (remembering). In Ayurveda, *Tridosha* (three humors), *Triguna* (three qualities) and *Mana* (mind) are intricately linked with each other. Vata, Pitta and Kapha doshas influence physical and mental health Sattva, Rajas and Tamas gunas (qualities) impact mental and emotional well-being. The mind is essential to preserving equilibrium and good health. Vata dosha is particularly significant as it can vitiate both Sharirika Dosha (Physical humors leading to bodily diseases) Mansika Dosha (Mental humors causing emotional and psychological disorders).⁵

According to Ayurveda perspective, ADHD is considered a Vata-Pitta predominant disorder. In Charaka Samhita describe symptoms of inattention, hyperactivity and compulsive behavior as indicative of Vata imbalance in the body. According to the Charaka Samhita, "When Vyana- Vayu is obstructed by Prana-Vayu, it leads to a loss of sensory perception, memory and strength. Pitta- related symptoms of ADHD may include: Irritability, Aggression, Quick temper Impatience. These symptoms can vary in severity and impact daily life. This interconnectedness highlights the importance of balancing Tridosha, Triguna and *Mana* to maintain overall health and prevent diseases.

Nidana (Etiological Factors): -

Ayurveda texts do not explicitly list Nidanas for ADHD, we can consider factors that vitiate Tridosha and Raja-Tama. Three primary factors contribute to Manovaha Srotas Vyadhi.⁸

Asatmya Indriyartha (Improper Use of Sense organs): It refers to the improper functioning of Gyanendriya (sense organs) leading to potential health issues. This can occur due to three types of improper functioning.

- Ayoga (Insufficient) under-stimulation or inadequate use of sense organs. For Example: A person struggling to hear a question clearly, leading to improper sensory impulses.
- Atiyoga (Excess) Over-stimulation or excessive use of sense organs. For Example: A person sensitive to normal frequency sounds, potentially causing hearing impairment.
- Mithya Yoga (Unsatisfactory) Incorrect or distorted perception through sense organs. For Example: Misunderstanding or misinterpreting spoken words. These improper functioning patterns are controlled by sense organs, which are ultimately governed by the mind (Manas).⁹
- Mithya Ahara (Improper Diet) Consuming unhealthy, irregular or incompatible foods that disrupt *Tridosha* balance.
- Mithya Vihara (Improper Lifestyle): Adopting bad habits including excessive stress, lack of exercise or inconsistent sleep patterns are the factors that can contribute to the vitiation of *Tridosha* and *Raja-Tama* potentially leading to ADHD-like symptoms.
- > Garbhaja Hetu (Maternal Factors) The physical and psychological development of a child is significantly influenced by maternal factors during pregnancy. 10 According to Ayurveda taxes Acharya Charaka states that a pregnant woman's diet and lifestyle can impact her child's health. For example, consuming excessive sweet foods may lead to diabetes in the child. Poor sleep quality

and nocturnal wandering during pregnancy may lead to Unmada vyadhi (mental health issues) in the child.¹¹

Sahaja hetu(congenital factors)- This includes all the factors involved in the morbidity of Shukra and Shonita. Vitiation in Beeja, Beeja Bhaga, Beeja-Bhaga Avayava due to Vata can cause congenital deformities in the child which may be a factor in developing ADHD. If Rajaswalacharya (menstrual Regimen) is not properly followed by woman then it affects *Aartava*(*Stribija*)¹² there by affects the child. All the chromosomal, hereditary or genetic problem can be corelated with above *explanation*.

LAKSHANA (SYMPTOMS)

TABLE NO. 1: INATTENTIVE TYPE

Symptoms	Correlation with <i>Unmada</i> ^{13,14}	Mansik Prakruti ¹⁵
Caused by insignificant or	Manna Vibhrama	Anavasthita (Matsya
external factors		Tamsika Kaya)
Lack of capacity to finish	Chestitam Mandam	
projects or home work	(Kaphaj Unmada)	
Forgets the things that are	Smriti Vibhra <mark>ma</mark>	Amedhas (Pashava
done every day		Tamasic Kaya)
Show inadequate listening	Unmattchitatvam	
abilities	(Puravrup)	
Things are lost or misplaced	Dhee Vibhrama	

TABLE NO. 2: HYPERACTIVE TYPE

Symptoms		Correlation <i>Unmada</i> ^{13,14}	with	Mansik Prakrı	ıti ¹⁵
Unable to maintain position in class	their	Parisarnam-ajastram Unmada)	(Vataj	Anavasthita Tamsika Kaya)	(Matsya
Spontaneously answers before they are finished	-	Satatam Aniytanam Giramutsarga (Vataja Un	Cha ımada)		
Interrupts or interferes people's conversations o		Amarsha (Pittaja Unma	da)	Amarshina (Rakshas Rajasika	ı Kaya)

Restlessness	and	constant	Abhidravan (Pittaja Unmada)	
Movement				

	Abhikshnam Smita Hasita- nritya- Geet-Vaditra Samprayoga Asthane (Vataja Unmada)	
Talking To much	Satatam Aniytanam Cha Giramutsarga (Vataja Unmada)	Asamvibhagi (Preta Rajasika kaya)
Touching or playing everything	Hasita-nritya-Geet-Vaditra Samprayoga Asthane (Vataja Unmada)	
Showing emotions without Control	Sarambh Cha Sthane (Pittaj Unmada)	

Diagnosis:

If someone is suspected of having ADHD, they should be evaluated by a medical expert. A diagnosis of ADHD cannot be made or ruled out by any test. The diagnosis is predicated on a pattern of the previously mentioned symptoms. When a child is suspected of having ADHD, the evaluation procedure typically involves parents and teachers. At least one other developmental or mental health issue is present in the majority of children with ADHD. This issue could be learning disability, mood, anxiety or substance use disorder. A physician can assist in determining the presence of these other conditions. A physical exam and neurological assessment that includes screenings of vision, hearing, and verbal and motor skills. More tests may be given if hyperactivity may be related to another physical problem.

A scan called the Neuropsychiatric EEG-Based Assessment Aid (NEBA) System, which measures theta and beta brain waves.¹⁶

CHIKITSA (TREATMENT): -

- ➤ Nidana Parivarjana¹⁷: This helps prevent and cure it by avoiding the causes of the illness whether they are Vihara, Ahara or both in addition, the Nidana Parivarjana helps to stop the progression of the disease by avoiding particular Nidana. As the first line of treatment for all diseases, Acharya Charaka and Acharya Sushruta advised avoiding their causes because this also helps prevent further illnesses. A comprehensive understanding of *Nidana* facilitates the planning of an effective therapy.
- Yuktivyapashraya¹⁸: This encompasses Aushadha and Panchkarma practices.
 - Aushadha: The youngster is unable to concentrate and sit still because of the increase in Tikshna and Laghu Guna of Pitta, the decrease in Sthira and Sthula Guna of Kapha and the increase in Chala and Laghu Guna of Vata. Therefore, medications containing the Manda, Sthira, Sthula, and Medhya guna of Prithvi Mahabhuta are necessary to balance Tridosha and enhance brain function.

TABLE NO. 3 EKALA AUSHADHA

AUSHADHA	AUSHADHA MODE OF ACTION		
Ashwagandha	Antioxident, Antiinflammatory, Neuroprotective Ashwagandha Rasa, Guna, Veerya, and Vipaka properties aid in the removal of Vata, which in turn aids in the management of ADHD Ashwagandha and other Medhya-Rasayanas are used to enhance memory and intelligence. 19		
Shankhpushpi	Activity that promotes intelligence, neuroprotective action, action of antioxidants, improves memory performance. ²⁰		
Guduchi	Neuroprotective action action of antioxidants, Activity to reduce stress Learning and memory-boosting activities. ²¹		
Madhuyashti	Medhya, memory-boosting Glabridin The antidepressant. ²²		
Brahmi	Bacopa supports the synthesis of dopamine. Bacosides, or steroidal saponine, are the main active ingredients in Brahmi leaves. According to references, bacosides have a nootropic and cognitive effect by increasing the metabolism of neurotransmitters, improving synaptic plasticity, and activating the serotonergic and cholinergic systems, all of which promote brain function. ²³		
Jatamansi	The Parthiv Dravya Jatamansi possesses Snigdha and Medhya Gunas. It counteracts Vayu elevated Chala Guna. Because of its unique scent (Gandha Guna Bahul), it operates on mind rapidly. ²⁴		
Vacha	Anticonvulsant, antidepressant, antihypertensive, anti- inflammatory, immunomodulator, and neuroprotective ²⁵		

TABLE NO. 4 AUSHADHA YOGA USED IN ADHD

Aacharya Charak	Bhesajhya Ratnavali	Astang Hridyam	Yogratnakar
Kalyanak Ghritam	Astmangal Ghritam	Brahmi Ghritam	Smritisagar Ras
Mahakalyanak Ghritam ,Lashunadya Ghritam	Chaturmukh Ras		Jyotishmati Tailum

Mahapeshachi Ghritam	Ashwagandharishta	

Panchkarma Procedure

Shirodhara:²⁶ It affects human bodily functions in a neuro-immuno-physio- psychological manner. It soothens the nerves, preserves *vata*, and promotes nerve renewal. EEG wave synchronisation might be aided by *Shirodhara*. In order to improve cognitive abilities and mental activity, it feeds the *Indriyas* and improves blood flow to the brain. *Mana* is stabilised while *Dhee*, *Dhriti* and *Dharana shakti* are increased. *Prana vayu*, *Mana*, *Indriyas* and *Manovaha srotas* are all found in *Shira*; hence they might be useful for ADHD.

Basti:²⁷ Basti is recognized as Ardha Chikitsa by Acharya Charaka and is effective in balancing Vata Dosha. According to Acharya Sushruta, Basti also regulates Pitta, Kapha, Rakta, and various ailments. It influences the entire body through the gut-brain axis, contributing to reduced stress, anxiety, and depression. The substances used in Basti may enhance neurohumoral transmission by stimulating the gut-brain connection, influencing behavior and emotions. Additionally, Raja Guna is notably dominant in ADHD.

Nasya:²⁸ Shira is accessible through Nasa "Nasa hi Shirso Dwaram" By reaching Shringataka Marma, the medications given through it stimulate nerve endings transmit impulses to the brain and improve blood circulation. The nasal mucosa is thus nourished and the vitiated Doshas are discharged. Nasal tissue is an ideal site for rapid and efficient systemic absorption due to its substantial blood supply. The medications administered here act to regulate the operation of the neurological system and endocrine system by stimulating the higher brain centres.

Abhyanga: Abhyanga is a form of Ayurveda therapy which involves massaging the whole body with lukewarm medicated oils. Oleating the body helps Pacify Vata which is responsible for hyperactive behavior in ADHD patients. Massage therapy has also been shown to increase serotonin levels which might help to modulate elevated dopamine levels in children with ADHD. It isenhances blood flow, promotes physical relaxation, reduces tension, etc.

Satvavjaya Chikitsa: Maintaining one's mental health and treating mental diseases are the goals of Sattvavajaya Chikitsa. "Satvavajaya Punah Ahitebhyo Arthebhyo Manognigrah²⁹ is the definition of Sattvavajaya Chiktsa. Manonigraha means control or constraint of the mind. One can achieve mental restraint by reciting the Sanskrit verses "Manaso Gyanam, Vigyanam, Dhairya, Smriti, Samadhibhih." The passage lists the following five virtues: Gyan (spiritual knowledge), Vigyana (skilled/textual knowledge), Dhairya (patience and willpower), Smriti (remembrance), and Samadhi.³⁰

Today's psychotherapy works similarly to the *Sattvavjaya chikitsa*. It is described as complete non-pharmacological psychotherapy in ancient texts. Applying the principles and dimensions of *Sattvavajaya Chikitsa* to everyday life is a more general concept that serves as a strategy for managing and overcoming obstacles in life.³¹

DISCUSSION

The causal factors can be identified as Garbhaja, Jataja, Sahaja, and Purvajanmajataj Hetu. Unmada has Vata-dominant Tridosha Prakopa and Raja-Tama Prakopas. Vata Prakopa occurs in two conditions: Dhatushayajanya or Avaranajanya. It vitiates Pitta and Kapha, resulting in Raja Tama Dushti through Manovaha Srotas. Vata Prakopa leads to Agnimandhyata, Ama Utpatti, Rasa Dushti and finally Dhatushaya or Margavarana. This vitiates Tridosha, Raja and Tama. When vitiated Doshas reach the seat of Mana, they cause sickness symptoms such as Mano Vibhrama, Buddhi Vibhrama, Smriti Vibhrama, Sheela Vibhrama, Cheshta Vibhrama and Achara Vibhrama. Nidana Parivarjana the primary treatment principle is the idea that one should refrain from consuming, taking or doing anything that aggravates or causes disease, according to Sushruta Acharya. Since Astmyaendriyartha Samyoga aggravates Vata along with other doshas and leads to sickness, one should refrain from doing Vata Vardhak Ahara and Vihara. Choosing herbs or medication preparations that decrease Chala Guna of Vata and boost Sthira Guna is necessary for treatment because if a person has more symptoms of the hyperactive kind of ADHD, then Vata is prevalent, more specifically Chala

Guna. Although *Dhatushaya* or *Margavarana Vata Prakopa* occurs in both, the fundamental therapy approach for each is distinct.

CONCLUSION

ADHD is a neurobehavioral disorder that significantly alters a child's behaviour. The *Ayurveda* perspective on ADHD emphasizes balancing the *Vata Dosha*, which is often aggravated in individuals with this condition. *Ayurveda* suggests a holistic approach, including dietary modifications, herbal remedies, lifestyle adjustments and therapies like meditation and yoga to improve focus, calm hyperactivity and enhance overall well-being. *Ayurveda* offers a variety of amazing plants, herb preparations and certain methods mentioned above that have shown good efficacy in managing ADHD symptoms. Personalized treatments, such as *Brahmi*, *Ashwagandha* and *Shankhpushpi* along with daily routines and proper nutrition help restore balance and promote mental stability. By addressing the root cause rather than just symptoms, Ayurveda provides a natural and sustainable way to manage ADHD effectively. Therefor it may be said that *Ayurveda* medicines are safe for use in treating ADHD. Since ADHD is *Yapya Vyadhi*, an effort was made to improve the child's and the family's quality of life.

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