

# Articles Based on The Character, Symptoms Include Speech And Treatment on Applied Behavior Analysis (ABA) For Autism Spectrum Disorder Child

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**Abstract-** *Autism spectrum disorder (ASD) is a neurological and developmental disorder that begins early in childhood and lasts throughout a person's life. Every individual on the autism spectrum has problems to some degree with social interaction, empathy, communication, and flexible behavior. It includes what used to be known as Asperger syndrome and pervasive developmental disorders. The information here focuses primarily on children and adolescents. In this paper we discuss about characteristics and symptoms of autism child and to define ABT (Applied Behavior Analysis) which is therapy based on the science of learning and behavior.*

**Keywords-** ASD, Characteristics, Symptoms and ABT.

## I. INTRODUCTION

Autism is a spectrum disorder, meaning that there is a wide degree of variation in the way it affects people. Every child on the autism spectrum has unique abilities, symptoms, and challenges. Learning about the different autism spectrum disorders will help you better understand your own child, get a handle on what all the different autism terms mean, and make it easier to communicate with the doctors, teachers, and therapists helping your child. children with ASD, the symptoms are present before three years of age, although a diagnosis can sometimes be made after the age of three. There are three to four times more common in boys than in girls, and many girls with ASD exhibit less obvious signs compared to boys. Autism is a lifelong condition. However, many children diagnosed with ASD go on to live independent, productive, and fulfilling lives. The information here focuses primarily on children and adolescents. We know that there is not one autism but many subtypes, most influenced by a combination of genetic and environmental factors. Because autism is a spectrum disorder, each person with autism has a distinct set of strengths and challenges. The ways in which people with autism learn, think and problem-solve can range from highly skilled to severely challenged. Some people with ASD may require significant support in their daily lives, while others may need less support and, in some cases, live entirely

independently. There are Several factors may influence the development of autism, and it is often accompanied by sensory sensitivities and medical issues such as gastrointestinal (GI) disorders, seizures or sleep disorders, as well as mental health challenges such as anxiety, depression and attention issues. Further we discusses Related works, Characteristics and Symptoms of Autism child, Treatment – ABT, Conclusion and Future Work.

## II. RELATED WORKS

Autism is a developmental delay in an individual caused due to neuro-developmental disorder usually known as Autism spectrum disorder (ASD), it is characterized by delays in various developmental skills needed for a person for a daily living. (American Psychiatric Association, 2013) ( fifth 2003). Researchers like Munoz, et. al 2012 suggest that individuals with autism preferred computer instruction than playing with toys.

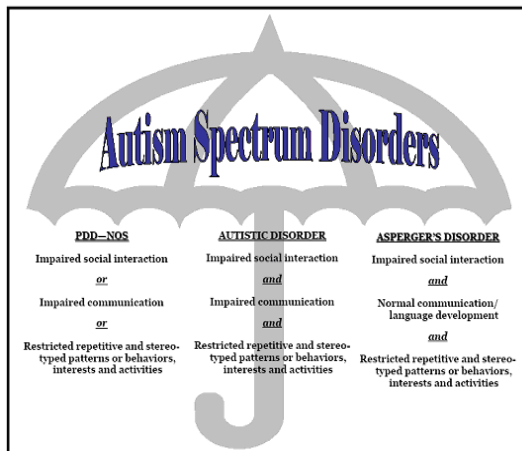
Through some of the research study made by Rao & Gagie, 2006 it is established that individuals were learning better through interactive approach and through visual media. Now a days with a wide use and advancements in technologies, software developers and researchers are developing eLearning applications through mobile application and computer (Pavlov et. al , 2014),(Chien et al., 2015). Further Whalen et al 2009 .investigated the effect of computers and technology children motivation and learning, it shows that autism children were able to meet the learning objectives through computer-based learning and were also more motivated to learn through computer-based instructions.

## III. CHARACTERISTICS AND SYMPTOMS OF ASD

Autism differs from person to person in severity and combinations of symptoms. There is a great range of abilities and characteristics of children with autism spectrum disorder — no two children appear or behave the same way.

Symptoms can range from mild to severe and often change over time. The characteristics of autism spectrum disorder, including effects on the five senses, social interactions, and emotional reactions.

- Social interaction and communication problems.
- Difficulty relating to people, things and events.
- Restricted and repetitive patterns of behaviors, interests or activities.
- Children with ASD often have difficulty with social interaction.
- Children with ASD may have an unusual interest in objects.
- Children with ASD often have difficulty with changes in routine.
- Children with ASD may have great ability in one area and great difficulty in another.
- Children with ASD may have unusually strong reactions to one or more of their five senses.
- Children with ASD may do the same thing over and over again, or talk constantly about specific things that interest them.
- Children with ASD may have unusually intense and prolonged emotional reaction
- Children with ASD often have difficulty with the color, smell, or texture of certain foods. This may limit what they will eat to only a few foods.



Autism Spectrum Disorder is diagnosed based on the presence of multiple symptoms that disrupt a person's ability to communicate, form relationships, explore, play, and learn. Basic social interaction can be difficult for children with autism spectrum disorders. Symptoms commonly may include:

- Unusual or inappropriate body language, gestures, and facial expressions (e.g. avoiding eye contact or

using facial expressions that don't match what he or she is saying)

- Lack of interest in other people or in sharing interests or achievements (e.g. showing you a drawing, pointing to a bird)
- Unlikely to approach others or to pursue social interaction; comes across as aloof and detached; prefers to be alone
- Difficulty understanding other people's feelings, reactions, and nonverbal cues
- Resistance to being touched
- Difficulty or failure to make friends with children the same age

#### IV. SYMPTOMS – SPEECH AND LANGUAGE

Many children with Autism Spectrum Disorder struggle with speech and language comprehension. Symptoms may include:

- Delay in learning how to speak (after the age of two) or doesn't talk at all
- Speaking in an abnormal tone of voice, or with an odd rhythm or pitch
- Repeating words or phrases over and over without communicative intent
- Trouble starting a conversation or keeping it going
- Difficulty communicating needs or desires
- Doesn't understand simple statements or questions
- Taking what is said too literally, missing humor, irony, and sarcasm.

#### V. APPLIED BEHAVIOR ANALYSIS (ABA)

ABA is short for Applied Behavioral Analysis, and it is often described as the "gold standard" for autism treatment. Applied Behavioral Analysis (ABA) is a system of autism treatment based on behaviorist theories which, simply put, state that desired behaviors can be taught through a system of rewards and consequences. ABA which is much closer to play therapy than to discrete trials. As they master behaviors, well-trained therapists will start to take children into real-world settings where they can generalize the behaviors they have learned and incorporate them into ordinary social experiences. ABA can also be used, in one of its many forms, with older children, teens, or even adults.

ABA can be thought of as applying behavioral principles to behavioral goals and carefully measuring the results. It evaluates such as

- A therapy based on the science of learning and behavior.
- Behavior analysis help us to understand
- How behavior works
- How behavior is affected by environment
- How learning takes place

According to this measuring the behavior Goal of ABT for Autism disorder child.

## VI. CONCLUSION AND FUTURE WORK

Applied Behavioral Analysis (ABA) is a system of autism treatment based on behaviorist theories which, simply put, state that desired behaviors can be taught through a system of rewards and consequences. In this paper concluded that analysis and symptoms include speech and language of ASD. The goal analysis the measuring behaviors treatment of ABT. In further will research an suggest the better treatment of ASD.

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