



Autism Spectrum Disorder (ASD): An All-in-One Guide for Parents



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Introduction

The term autism is not what it once was. 'Autism' originally described a severe set of schizophrenia symptoms in 1911 by a German psychiatrist named Eugen Bleuler. This misconception continued until the 1960s when child psychology became a science.

Today, the term autism is known as '**Autism Spectrum Disorder**' (**ASD**). It's used to describe a complex developmental disorder affecting communication and social skills first appearing in childhood. When speaking about ASD, it's important to separate myths from facts. Also, for reasons of space this paper will use 'autism' and 'ASD' interchangeably.

Common Myths about ASD

1. Autism is curable.

- **Fact:** Autism is not curable. It's a lifelong developmental disorder.

2. Individuals with autism cannot live an independent and successful life.

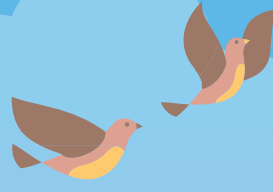
- **Fact:** People with autism can live full, happy, and successful lives with the help of speech and occupational therapy.

3. The cause of autism is bad parenting.

- **Fact:** There is no known single cause to autism. Studies suggest the development of autism occurs before birth.

4. Individuals with autism do not speak.

- **Fact:** Autism is complex. Some people develop speech normally, while others communicate with a combination of words, gestures, and communicative devices..



ASD

MYTHS

FACTS

Kids with ASD avoid social contact.

Individuals with ASD are often keen to make friends, but may find this difficult.

Individuals w/ASD cannot lead independent and successful lives.

Given appropriate education, many will grow up to be successful contributors to society.

ASD is the result of bad parenting.

Evidence shows that autism is caused from a difference in the way the brain develops before the child is born.

Everyone with ASD has special talents or "savant" skills.

c. 10% of individuals w/ASD may have special abilities.

ASD can be cured.

There is currently no cure for autism. Individuals w/ASD respond very well to structured early intervention, education, and vocational placements.

People with ASD do not make eye contact.

When relaxed and confident with the communication partner, eye contact can be quite spontaneous.

People with ASD cannot talk.

Some will develop speech almost easily, while others require assistance to communicate.

ASD can be outgrown.

Children do not outgrow autism, but symptoms may lessen or change as they receive appropriate interventions.

People with ASD don't have feelings, so they can't show affection.

Kids w/ASD can show affection, but its display may appear different than what is typical.

These common misconceptions about ASD only show the need for more awareness about this disorder. **That's why April is Autism Awareness Month.** To better understand this developmental disorder, parents need to know how to recognize this disorder that affects 1 out of 110 children.



Autism Awareness Month: Spreading the Word



Robert McKenzie

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Recognizing the Early Signs of Autism Spectrum Disorder

Autism is a complex disorder in which no two children or adults display the same signs and symptoms. It is also a disorder affecting different areas of a person's life. While one area may be greatly affected, another area may exhibit no signs of autism. For example: A child may struggle with sensory issues, but is able to talk in back and forth communication.



Social

- Cannot self-regulate emotions
- Trouble adjusting to a new environment
- Can only focus on one task at a time
- Does not respond to questions correctly or even at all
- Cannot communicate in back and forth conversation
- Trouble relating to others

Language

- Loss of language previously acquired around the age of three
- First words are nouns (objects) instead of proper nouns (names) and verbs (actions)
- Noncommunicative gestures and expressions are delayed the first year (waving goodbye or pointing)
- Repeats words immediately after being heard. Also known as 'echolalia.' Delayed echolalia also occurs in which a child repeats words heard for hours, days, or weeks.
- Limited eye contact with others

- Speech may be robotic and words may not flow together
- Does not understand social norms of communication like the volume of voice or speaking over someone
- Trouble understanding humor or sarcasm
- Craves structure and predictability
- Little to no fear
- Unable to plan or organize tasks
- Poor problem-solving skills
- Does not use toys appropriately or for their intended purpose
- Repetitive play

Behavior and Emotional Regulation

- Cannot handle changes in routine
- Trouble applying learned skills
- Uses objects differently or develops an attachment to certain objects or toys
- Stimming behavior (rocking, chewing, hand flapping)
- Unusual ways of expressing emotions (aggressive behavior, meltdowns, tantrums, running away)

- Repetitive and strict patterns of play, interests, and behavior
- Cannot self-manage well

Sensory and Eating

- Overreacts or under reacts to environmental stimuli like light, sounds, and social situations
- Plays by themselves
- Particular about food choices because of sensory issues
- Prefers a limited amount of food choices

Speech Blubs is an insanely fun app designed to develop kids' speech!

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Signs of Autism Spectrum Disorder



Stacie Bennett

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Developmental Regression

Developmental regression occurs when a child loses an acquired skill. A potty-trained toddler starts having accidents again. A talkative child reverts to babbling or using non-sense words. For many children, a developmental regression is only temporary and **may be the result of mastering a new skill or a major life change.**

But for some children, they are experiencing a **regression due to the onset of autism symptoms.** For the first year, many children who are later diagnosed with autism develop normally. It is possible for a child under one to show no signs of autism. However, once the child reaches the age of two, many parents notice autism signs that the child had not displayed before.

If a child experiences a developmental regression not related to mastering a new milestone or a major life change, an evaluation or screening for autism needs to be conducted.



“

Developmental regression occurs when a child loses an acquired skill.

”



Developmental Regression in Toddlers



Liz Talton

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Diagnosing ASD

Once a child displays signs of autism or a developmental regression, an evaluation for ASD should be conducted. Some children are diagnosed as early as 18 months. For most children, a diagnosis of ASD occurs after the age of two years.

Although every child should be screened for ASD at 9, 18, and 24 or 30 months by a pediatrician, signs of ASD can still be missed. Some children with a higher risk of developmental disorders may need to attend additional appointments for further screening.

The diagnosis process for ASD is a three-step process.

Step 1: Screening

Before a child is diagnosed, he or she must undergo an initial screening. This process takes roughly 15 minutes and involves a discussion and observation of a child's acquired and delayed milestones and skills. For a child, this initial screening is stress-free. All a child has to do is play. The doctor will observe and engage with the child in play to see how the child speaks, learns, and behaves.





Step 2: Developmental Pediatrician

If the doctor from the initial screening feels further evaluations need to be done, the doctor will refer the child to a developmental pediatrician, or a doctor specializing in childhood development. They can identify a multitude of behavioral and developmental disorders in children.

Developmental pediatricians are also able to help:

- Advocate for school planning and services needed
- Prescribe medications
- Initiate medical evaluations
- Provide long-term monitoring for a child's development in educational programs and behavior management



Step 3: Full Comprehensive Evaluation

After a child is seen by a developmental pediatrician, a full comprehensive evaluation is conducted. This type of evaluation is a more thorough process involving a child neurologist, a speech and language pathologist, and a child psychologist. All these professionals combined will help determine if a child has ASD.

In order to determine if a child displays signs of ASD, four tests are used:

- 1.** *Autism Diagnosis Interview* – Assesses a child or adult in three main areas of behavior (social interaction, communication/language, and restricted and repetitive interests and behaviors).

2. *Autism Diagnostic Observation Schedule* – Examines social interaction, play, communication, and how imaginative a child is with materials.
3. *Childhood Autism Rating Scale (CARS)* – Only used for children over the age of two years old and takes an in-depth look into behavior, abilities, and the characteristics of a child.
4. *Gilliam Autism Rating Scale* – Suitable for diagnosis in children over three years old and tells parents, teachers, and clinicians the severity of the disorder.



How Is Autism Spectrum Disorder Diagnosed?



Stacie Bennett

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The Causes of Autism

Although there are many myths about the causes of autism, there is not one single factor known to cause autism. Instead, science is finding that autism is caused by a variety of factors.

So far, there are seven factors attributed to a child developing autism.

1. Role of Genetics

Each family unit stands a likelihood of 1 in 68, or has a 1.5% chance of having a child with autism. But since family members have a similar genetic makeup, families who have one child with autism are at a 20% greater risk of having another child with autism. The risk then increases to 30% if a family already has two or more children with autism.



Swedish researchers found connections between a family's history of mental and neurological disorders like ADHD, schizophrenia, or depression, and the odds of having a child with autism.

The results concluded:

- Children with a parent or sibling with mental and neurological disorders had 4.7 times greater risk
- Children with a family with mental and neurological disorders stood a 7.6 times greater risk of developing autism and intellectual disability.

Other studies yield similar results as well, contributing an increase in autism if a sibling has attention-deficit hyperactivity (ADHD) or a parent has depression, anxiety, bipolar disorder, or schizophrenia.

2. Birth Complications

The *American Journal of Perinatology* found children were at an increased risk for developing ASD if they experienced birth complications. The birth complications found with the highest connection to ASD include:

- Preeclampsia
- Placenta separation from the uterus
- Breech or transverse birth
- Oxygen deprivation during labor (birth asphyxia)
- Prolapse or exposed umbilical cord

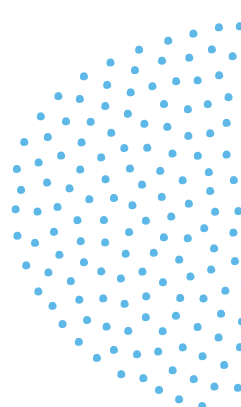


While not one single birth complication pinpoints if a child will have ASD or not, children who experienced the above complications do have an increased risk of developing ASD, according to the research.

3. Genetic Disorders

Although it is rare, genetics may play a large factor in the risk and development of ASD. Both Rett Syndrome and Fragile X Syndrome have been found to place a child at a higher risk of developing ASD.

However, it should be noted that both disorders are extremely rare and are the result of genetic mutations.



4. Born to Older Parents

Research studies from Denmark, Israel, Sweden, and California have found men over 40 years old are at a six-fold increase in the odds of having a child with autism. Researchers suspect that men who have children when they are over 40 years old may carry ASD traits that lead to delays in romantic partnerships and having children.

Other studies found different results that could debunk this theory. While being born to older parents cannot be eliminated as a cause of ASD, it is still considered a theory with no concrete research to support it.

5. Low Birth Weight

Low birth weight is anything below 5.5 pounds. When a child is born with low weight and/or prematurely, they may be missing proper fetal growth to help them develop. The Center for Disease Control found children born less than 5.5 pounds had a 2.3-fold risk of autism. The same study also found girls born underweight had a 3-fold greater risk of autism.

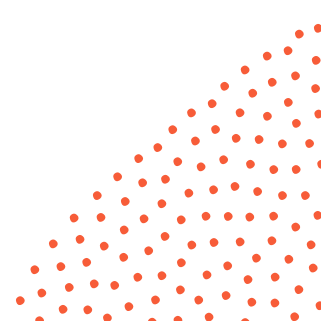


6. Environmental Toxin Exposure

Heavy metals and environmental toxins are thought to be one of the contributing factors for causing ASD. But this is simply a theory. As of today, there is no significant research to back up the theory.

The Children's Environmental Health Center lists 10 common toxins and chemicals suspected of causing ASD. **So, pregnant women should limit their exposure to the following 10 environmental toxins:**

1. Perfluorinated compounds
2. Endocrine disruptors
3. Methylmercury
4. Lead
5. Organophosphate pesticides
6. PCB's
7. Organochlorine pesticides
8. Brominated flame retardants
9. Lead
10. Automotive exhaust



7. Viral Infections

According to research from the American Society for Microbiology, pregnant women with active infections doubled their risk of having a child with ASD. More specifically, certain viral infections have been found by research to be linked to the development of ASD.

These six viral infections at the time of pregnancy double a woman's chance of having a child with ASD:

- Cytomegalovirus
- Measles
- Epstein-Barr Virus
- Rubella
- Human Herpes Virus 6
- Herpes Simplex Virus 1 and 2

Science is pointing to a mix of biology and environmental factors in combination that contribute to the development of autism. Not just one single factor. With increased research into the causes, it's about finding a specific or "right" combination of different factors that directly influences autism development.



ASD and Heredity

Since we know the role of genetics can play a part in the cause of autism debate, it's important to discuss some common characteristics of heredity and an autism diagnosis.

- Those with a family member with ASD are more likely to be diagnosed as well
- Boys are diagnosed with ASD more than girls



- Vaccinated versus nonvaccinated children are equally at risk of an autism diagnosis
- Children with older parents tend to be at an increased risk of autism
- Premature babies born before 26 weeks show a greater risk of autism

While there's no specific cause to autism, many professionals in the field of treating and diagnosing autism believe genetics and environment combined play a role. It's believed other genes may affect a child's brain development or how the brain cells communicate. It could also be that specific genes determine how mild or severe autism symptoms will be.

Although these are simply theories up for debate, the role of genetics, heredity, and environment are all key factors in determining the possible cause of autism.

Once your child is making sounds, the app uses entertaining and educational videos to help them make words and then sentences.

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Is Autism Hereditary?



Stacie Bennett

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ASD and Severe Morning Sickness

Along with examining genetics and environment, the debate about severe morning sickness, or hyperemesis gravidarum, and autism needs to also be looked at as a possible cause. Severe morning sickness is categorized by excessive vomiting and nausea. The cause of severe morning sickness is thought to be hormonal changes and high levels of hCG (human chorionic gonadotropin hormone) during early pregnancy.

Although the exact cause of severe morning sickness is still unknown, symptoms tend to appear between the 4th and 6th week. Many pregnant women find relief from symptoms at around 14 to 20 weeks. Still, 20% of women still require care for severe morning sickness for the rest of their pregnancy.



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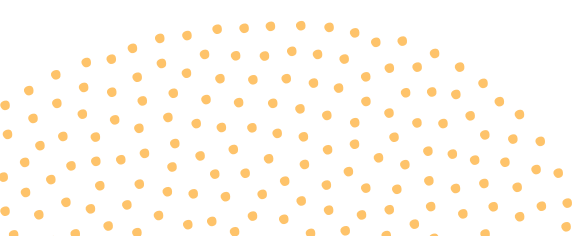
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The *Southern California Research and Evaluation Center* found in a recent study that pregnant women with severe morning sickness were 53% more likely to have a child diagnosed with ASD. The study further found:

- Mothers with severe morning sickness diagnosed in the first and second trimesters put them at an increased risk of having a child with ASD. But no increased risk for mothers who were diagnosed in the third trimester
- The severity of severe morning sickness did not increase the risk of autism
- Severe morning sickness and autism was higher among mothers of girls than boys and more prevalent in Caucasian and Hispanics than Pacific Islanders and African Americans
- Medications for treating severe morning sickness were not related to developing autism

Another study in 2018 conducted by the Telethon Kids Institute found pregnant women with hCG levels that were too high or too low raised their risk of having a child with autism.



While both studies found a link between the risk of autism and severe morning sickness, it doesn't mean that it is the cause of autism. More research needs to be done to find or rule out the cause of autism, including the severity of morning sickness during pregnancy.

The app uses video recordings of a child “expert” performing a desired behavior. Children observe other kids in videos, which triggers their mirror neurons, which starts the imitation process.

[Start Learning](#)

ASD Therapy and Tools

After your child receives a diagnosis of ASD, it is overwhelming to think about doctor's appointments, therapies, and changes at home. But the best part about autism therapy is it is not a “one size fits all.” Every therapy doesn't work for every child. So, all the different types of therapies are customized to meet your child's needs. When treating children with autism, there are three therapies typically used.



1. Applied Behavior Analysis

This type of therapy is best suited for children who have been diagnosed with autism under the age of five. Applied behavior analysis is considered the “gold standard” for treating autism because it changes bad behaviors and reinforces good ones with a reward and consequences system. A therapist may want to observe and treat the child in a daycare, home, or playground where challenging behavior typically occurs.



While a “natural setting” is used for changing behaviors like meltdowns and tantrums, it’s also used for reinforcing or teaching imaginative skills or empathy through reward. This therapy is great for addressing challenging behavior but is an intensive therapy often requiring 20-40 hours per week.

2. Relationship Development Intervention (RDI)

This therapy focuses on critical thinking, communication skills, and social interactions with the people closest to the child. Instead of the therapy focusing solely on the child, RDI includes the involvement of those closest to a child (parents and teachers).



Parent involvement is key with this therapy! You become your child's therapist. Although it's a new therapy, RDI yields promising results. To see success in your child with RDI, you need to be in regular contact with a program consultant and receive extensive therapy information that includes watching instructional videos and conferences.

Relationship Development Intervention has six objections:

- 1. Emotional Referencing:** Learning from the emotional experiences of others
- 2. Social Coordination:** Observing and controlling behavior to be involved in social situations
- 3. Declarative language:** 3.The use of non-verbal communication and language to show curiosity, help interaction, share feelings and thoughts, and coordinate actions with others
- 4. Flexible Thinking:** Adapt and change plans when situations change
- 5. Relational Information Processing:** Solve problems without clear solutions and solve situations that don't have a "right or wrong" solution
- 6. Foresight and Hindsight:** Think about past experiences and foresee future possibilities in situations based on those past experiences

3. Sensory Integration Therapy

Sensory integration therapy is all about decreasing sensory sensitivities whether it be light, texture, noise, or touch. This therapy is mostly play-based and involves focusing on the

things your child is most overly sensitive about. For example, if a child is overly sensitive to touch, a therapist will interact with the child by touching the back of his/her hand with different textures in hopes to desensitize him/her over time. Sensory integration is a form of occupational therapy and studies show it's an effective intervention for those with autism ages four to 12.



Along with sensory integration therapy, your child may also need speech and language therapy. The main goal of speech therapy is a focus on communication and social interaction. Speech-language pathologists help a child communicate through the use of electronic talkers, sign language, picture boards, social skills development, pragmatic skills, sounds, and rhymes. These are all fundamental in helping a child increase verbal and non-verbal communication.



Floortime Play Therapy

Another form of therapy utilized by occupational and speech therapists is floortime play therapy. This type of therapy focuses on building into a child's strengths by getting to their level of play. Instead of focusing on guiding a child through an activity, the child is the one leading all aspects of play.

Floortime play therapy is built upon six milestones:

- 1.** Self-regulation and interest in the world around them
- 2.** Emotional thinking
- 3.** Emotional ideas
- 4.** Back-and-forth communication
- 5.** Complex communication
- 6.** Intimacy and relationship engagement

To meet these milestones, a therapist or parent interacts with the child by following what the child is doing in a calm environment. If a child is playing with cars on the floor, a therapist or parent will sit on the floor and play with the cars. These play sessions normally last anywhere from two to five hours a day.

Over time, the interactions between the therapist and child become more complex. For instance, as a child plays with a toy car, toy planes are introduced with added language to create a game. Floortime play encourages your child to respond to questions and interact with the therapist.

In 2011, independent researchers in Thailand and Canada discovered floortime play therapy was “significantly improving emotional development and reducing autism’s core symptoms.”



Floortime Play Therapy for Autism Kids



Stacie Bennett

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IEP Goals for Autism

Since the bulk of your child's therapy will come from speech therapy, you may be curious about the goals of speech and language skills for a child on the autism spectrum. These same goals are not only for speech therapy but for your child's IEP (Individualized Education Program). The following goals for IEP's are only examples. Every child with autism requires different needs, therefore your child's IEP goals will be specific to him/her.

Joint Attention

Joint attention refers to a child's ability to focus on multiple things at once. This is essential when your child begins school. Your child needs to be able to focus on multiple tasks at once. While many children with autism struggle with joint attention, your child's IEP can focus on specific areas of joint attention.

Speech Blubs constantly updates its activities in 25 themed sections. We work hard to provide screen time that won't annoy or worry you.

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Here are some joint attention goals for your child's IEP:

- Responding to the teacher's voice
- Showing understanding through both eye contact and gestures
- Being able to recognize and describe the emotions of him/herself and others

Social Reciprocity

Social reciprocity is key for interacting with other people. It involves the back-and-forth interaction between two people. Children with autism spectrum disorder experience issues with social reciprocity like starting interaction, responding to interaction by others, maintaining conversations, and turn-taking verbal communication.

To help your child with social reciprocity, here are some goals for an IEP:

- Maintaining interactions
- Initiating conversations
- Engaging in topic maintenance
- Recognizing and attempting to repair communication breakdowns



Language and Related Cognitive Goals

Language is more than speaking. It's understanding and using the native language with both verbal and nonverbal communication. Pointing, waving, and facial expressions are all examples of nonverbal communication.

Some examples of language and related cognitive goals for your child's IEP can include:

- Using gestures
- Turning pages in a book while pointing at pictures
- Using words and gestures to share intentions
- Problem-solving
- Understanding event sequences (sequences in stories, alphabet letters)
- Using and combining words in creative combinations

Behavioral and Emotional Regulation

This area of a child's IEP goals remains one of the hardest areas to master for children with autism. Behavioral and emotional regulation involves understanding emotions, processing emotions, communicating their feelings, and coping with difficult emotions.

Some examples for behavioral and emotional regulation goals for an IEP include:

- Asking for a soothing activity when upset
- Expressing emotions
- Talking through transitions in activities
- Perceiving and predicting social behavior in others to self-monitor behavior



Speech and Language Goals for Kids on Autism Spectrum



Stacie Bennett

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Video Modeling and Autism

Video modeling is another form of therapy recently introduced. But video modeling first appeared in 1982 by Steinborn and Knapp by using a combination of behavioral training with a classroom-based environment to teach traffic and pedestrian skills to children within the autism spectrum.

Today, video modeling is considered a go-to method for teaching social skills and helping speech delay with autism. The therapy is now advanced even further with the help of scientific studies about mirror neurons.



Mirror neurons are sensory-motor cells in the brain that trigger or activate when...

- An individual performs an action
- Sees another person perform the same action

These types of neurons are thought to be linked to social behaviors, especially empathy and imitation, possibly explaining social cognition in humans. To take advantage of mirror neurons video modeling for social skills is used for children with autism. Speech Blubs takes video modeling a step further by having children speak or model behaviors and skills. All your child has to do for video modeling is watch Speech Blubs videos and copy the word or action demonstrated by other children.

The Speech Blubs app and video modeling will give your child the following benefits:

- 1.** Confidence to perform copied tasks and speech in daily life
- 2.** Learn faster by seeing other children perform the behaviors
- 3.** Increase memory of learned behaviors through fun activities and games

All of the content, that includes voice-controlled exercises, videos, mini-games, and more is based on suggestions and feedback provided by 100s of kids, parents, teachers, and speech therapists.

Try It now



Teaching Kids with Video Modeling



Robert McKenzie

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Autism and Speech

One speech disorder affecting 65% of children with autism is speech apraxia. Although there are many forms of apraxia, speech apraxia directly affects the tongue, lips, mouth, and jaw in producing clear speech sounds. On top of words sounding unclear, the same word may sound differently each time it's spoken leading to inconsistent speech sounds. If a child shows signs of a communication disorder, it can be hard to distinguish whether the speech issue is due to apraxia or autism. So, an evaluation from a speech-language pathologist should be conducted.

Some areas a speech-language pathologist will examine for diagnosing speech apraxia are:

- **Errors with consonants and vowels** – A child may say the same word different each time.
- **Problems moving from sound to sound or syllable to syllable** – This results in long pauses between words and troubles repeating a string of words.
- **Unusual emphasis on certain parts of speech** – A child may emphasize all the syllables of a word or sentence resulting in a “flat or robotic” tone of speech.



Other symptoms of apraxia of speech used for diagnosis include:

- Minimal babbling as a baby
- Troubles forming and saying long words
- Repeated attempts to pronounce a word
- Excessive use of nonverbal communication
- Removing consonants at the beginning or end of a word
- Problems making words

The evaluation will also examine your child's hearing, starting and responding to instructions, and verbal and nonverbal communication skills.

To help you child with the skills above, here are 7 at-home speech activities to start today:

1. Model words with examples

Grab your child's favorite toy and hold it next to your mouth and say the word of the toy clearly and slowly. This helps your child see your mouth movements.

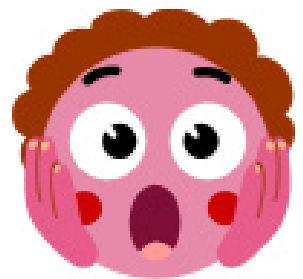


2. Find ways to amplify or change your voice

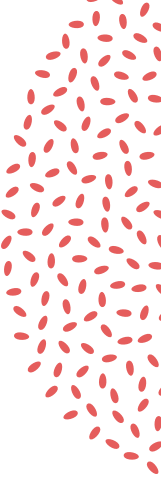
This is a way to foster back and forth imitation. Use an empty paper towel roll or voice-change app to make different sounds.

3. Offer two items

While holding two objects near your mouth, clearly say the words of the objects and ask which item he/she would like. Once your child points or says a word to respond, repeat the word of the object again.



For example: “Would you like an apple or an orange?”



After your child points or says a word, repeat “You would like the orange.”

4. Add excitement to your words

Change the tone of your voice by emphasizing sound at the beginning and ends of words. This will keep your child’s attention and help with imitation.

5. Make sound effects

Add sound effects to books or while playing with toys during floortime play.

6. Repeat “core words” in simple sentences

Keep “core words” simple and your sentences short, while focusing on emphasizing the core words. If you’re blowing bubbles, try core words like “bubble” or “pop.”

7. Encourage imitation with songs

Use music to engage your child with imitating your mouth movements. Songs like “If You’re Happy and You Know It” and “Itsy Bitsy Spider.” Combine these songs with the actions and movements to go along with them.





Can Children on Autism Spectrum have Apraxia of Speech?



Stacie Bennett

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ASD and Speech Delay

When a child has a speech delay, parents often wonder whether the speech delay is due to autism. Although a speech delay is a sign of autism, symptoms of a speech delay and autism are very different. If you suspect your child has a speech delay, it's important to either diagnose or rule out autism as the cause of a speech delay.

A speech-language pathologist can identify if your child is experiencing a speech delay but cannot diagnose autism. Only a developmental pediatrician can diagnose autism. To help you better understand the difference between speech delay and autism here are the signs and symptoms of both.





Signs and symptoms of autism:

- Delayed speech
- Lack of eye contact or brief eye contact
- Easily upset over minor changes in routine
- Reactions to certain sounds, lights, touch, smells, or tastes
- Difficulty understanding other's emotions
- Focused on a small range of interests or objects
- Engages in repetitive behavior like spinning or rocking
- Does not respond to his/her name by 12 months
- Does not point at distant objects by 14 months

TIP 1: To get you started, we have some great interactive guides, but feel free to try some activities from those most frequently chosen by children in the Sing-along, Animal Kingdom, Yummy Time, and Toy Box sections.

Start Learning

Signs and symptoms of a speech delay:

- Saying simple words clearly or unclearly by 12-15 months
- Not using nonverbal gestures like pointing and waving by 12 months
- Prefers to use gestures over words to communicate by 18 months
- Troubles imitating sound by 18 months
- Understanding simple words by 18 months
- Troubles understanding simple requests
- Only imitates speech or actions, but doesn't produce words or phrases by 2 years
- Says some sounds or words repeatedly by 2 years
- Cannot use language to communicate needs by 2 years
- Cannot follow simple instructions by 2 years
- Unusual tone of voice (raspy/nasal sounding) by 2 years
- Talks in short sentences by 3 years
- Telling a story by 4-5 years



If My Child Has Speech Delay Does That Mean They Have Autism?



Stacie Bennett

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Nonverbal Autism

While it's not an official diagnosis within the autism spectrum, nonverbal autism is used to describe any child that does not use verbal communication. Roughly 40% of children are considered nonverbal and there is no known cause of nonverbal autism. Societal misconceptions often associate nonverbal autism with low intelligence. However, nonverbal autism does not mean a lack of intelligence.

In 2015, *Cambridge University* found those with autistic traits are more likely to pursue careers in technology, engineering, science, and math. All of which require high intelligence. Another study holds promising results for future verbal communication for nonverbal children with autism.

The *Center for Autism and Related Disorders* studied records of children with autism between the ages of 8 to 17. All the participants' experienced language delays of either being nonverbal or only speaking simple words or phrases.



“

Nonverbal autism is used to describe any child that does not use verbal communication.

”

The study found the following positive results:

1. 70% of participants eventually spoke in simple sentences
2. 47% of participants became fluent speakers
3. Most participants had higher IQ's than once thought
4. Repetitive behaviors (rocking or spinning) and intense interests didn't affect language development



Will My Nonverbal Autistic Child Ever Talk?



Liz Talton

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Ways to Encourage Speech Development at Home

If your child has nonverbal autism, working with a speech-language pathologist is essential for increasing communication with your child. However, there are simple things you can do at home to strengthen your child's speech development.

1. Focus on nonverbal communication

Add nonverbal communication by modeling it for your child. Increase eye contact. Nod or shake your head when saying yes or no. Point to objects you're referring to. Learning these types of nonverbal cues increases communication of your child's needs.



2. Shorten your speech

If your child struggles with following directions, it could be because of a short attention span and your directions are too long. Try focusing on “core words,” shortening phrases, and using simpler words. This will lessen confusion for your child.

Example: “Don’t stand on the chair!”

Shorten this phrase to: “Sit please.”

3. Imitate behavior

Play with your child by copy sounds or actions he/she does. Imitation is a vital part of development and research suspects it can predict language outcomes. The benefits of imitation include sharing emotions, understanding turn-taking, increasing attention, and helping a child take an interest in others socially.

Speech Blubs encourages children aged 1-6 to generate new sounds using facial and speech recognition technology. Activities inspire imitation of the kid “experts” in the app. So, kids teach kids.

Get Started

4. Use visual tools

Many children with nonverbal autism require visual aids to help further understanding and communicate wants and needs. There are many apps like Speech Blubs that will help with speech development through imitation. A picture exchange communication system (PECS) is also essential for expressing needs and wants for a nonverbal child.

5. Encourage play and social interaction

Studies show children learn language best through play-based activities. Try singing songs, turn-taking activities, and gentle rough-housing. The most important part of play-based activities is being down at eye level with your child.



6. Leave “space” for your child to talk

Sometimes parents are too quick to answer for their child or they immediately ask a follow-up question. This may not leave enough “space” for your child to respond. Even if a nonverbal child responds with a gesture, it’s still communication. Over time, 15-20 seconds of space in between your questions can lead to an answer from your child.

7. Follow your child’s interests

It’s best to follow your child’s interests and focused attention on whatever he/she is doing. If your child is dumping out Legos on the floor, say “Dump Lego” and join in on the fun. This will help identify the action and increase language with short phrases and “core words.”

TIP 2: Fill out the in-depth questionnaire. Gain insight on which areas your child could improve! 100k+ kids are screened every month! This might give you the first solid information about your child’s communication skills.

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7 Ways to Help Your Child with Nonverbal Autism Speak



Stacie Bennett

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4 Ways To Help A Child With Nonverbal Autism Talk



Liz Talton

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PECS and Autism

The Picture Exchange Communication System (PECS) is a way for nonverbal children to communicate without words. For children with autism and other developmental disabilities, PECS gives them a “voice” to communicate their needs and wants. Since the 1980s, PECS has been helping children and caregivers for short and long-term use for developing verbal speech.

Research found children understand pictures better after the age of three. Therefore, PECS is recommended for children three and older. Like any visual aid tool, the overall goal of PECS is the development of verbal speech. Some children progress through all six phases of the system and acquire verbal language. Other children continue to use this visual aid for communicating simple needs and wants.

Over one million parents from over 50 countries already trust us with their child’s development and have downloaded Speech Blubs.

Download now

“

PECS gives nonverbal children a “voice” to communicate their needs and wants.

”

For the PECS system to work correctly a child needs to be an “intentional” communicator. This means he/she displays a need to communicate needs. A child who is an “intentional” communicator may lead an adult by the hand to something he/she wants.

Here’s how the 6 phases of PECS work:

Phase 1: Learn how to communicate

This phase helps a child communicate his/her needs through pictures by using motivating factors like a favorite toy. For example: If your child loves trains, use a picture of a toy train to motivate him/her to exchange the picture for a train.

Phase 2: Learn persistence and picture distancing

Phase one builds upon phase two. A child will exchange pictures for a need, but picture distancing is also included. Picture distancing involves a child having to retrieve a card from far away to fulfill a need or want.

Phase 3: Making choices

This phase involves making choices. Two pictures are introduced, and a child needs to point or hand the card he/she chooses. This works best with motivating factors.





Phase 4: Express feelings and needs

This phase combines pictures and words to make short sentences. A child must combine “I want,” “I need,” or “I feel” cards with a picture of the desired object or feeling. Some children will only reach phase four in the PECS system.

Phase 5: Answering a question

Phase 5 builds upon phase 4 by using cards to answer questions. A child will combine a sentence card with a picture card to give the answer.

Phase 6: Comment on a question

Phase 6 involves elaborating upon phase 5 by commenting on questions.



How to Customize PECS for Your Child

Every child is different. Therefore, a PECS needs to be customized to meet your child's unique needs, wants, likes, and dislikes. To customize PECS, you can either purchase pre-made picture cards or make your own. If you're making your own, keep the following tips in mind!



The more you follow your child's interests the more opportunities you're creating for speech development in your child.

Tips for customizing the PECS for your child:

- **Focus on an area of need** – These are pictures your child needs help with communicating the most. If your child needs help communicating he/she is hungry then focus on cards representing hunger. For example: Picture cards showing breakfast, lunch, and dinner foods, or your child’s favorite foods.
- **Follow your child’s interests** – A child will show more interest in PECS if there are cards with their favorite toys, foods, activities, and more.
- **Cartoon versus real photos** – PECS is either used with cartoon or real images. The best way to see how your child responds to one or the other is by creating some favorite images with both cartoon and real photos. Then, see which one your child prefers to communicate with.
- **Choose how to display PECS** – How you choose to display PECS cards depends on the patience level of your child, his/her understanding, and if you choose to create a schedule with the cards. If you create a schedule, schedules will need to be displayed somewhere easily accessible.

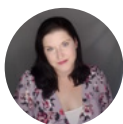
Here are some other ways to display and store PECS cards:

- *In a storage binder*
- *Laminated and held together by a keyring*
- *A schedule board with Velcro*
- *A communication book (this includes long Velcro strips to make sentences with picture cards)*

For a parent's perspective on customizing PECS read



Customize A Picture Exchange Communication System For Your Child



Liz Talton

READ MORE >



Stimming Behavior

Stimming behavior is a sign of autism. But individuals who do not have autism also engage in stimming behavior. Stimming behavior may occur in any who is anxious or nervous and takes the form of nail-biting, foot jiggling, knuckle cracking, and more. While some with autism may engage in these common stimming behaviors, stimming in children with autism looks different because he/she is unable to stop.

A child with autism may engage in the following stims:

- Rocking back-and-forth
- Hand flapping
- Bouncing
- Spinning
- Walking on tiptoes
- Repetitive blinking
- Rearranging or lining up objects
- Staring at ceiling fans or lights
- Sniffing people and objects
- Licking or rubbing objects
- Repeating words and phrases



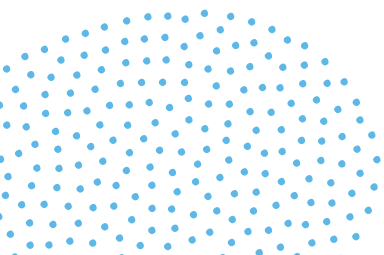
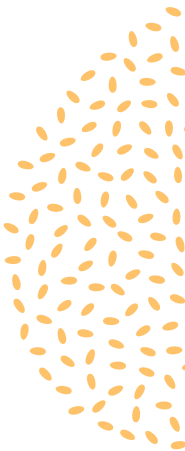
It's important to note a child can engage in one behavior or in multiple behaviors and each is done repetitively. While the list above are typical behaviors for children with autism, some children will display stims that cause physical harm.

Stimming behavior leading to physical harm include:

- Punching or biting
- Headbanging
- Excessive skin scratching
- Scab or sore picking
- Swallowing small objects

Although science is unsure what causes stimming in autism, there are multiple theories to this behavior:

- 1.** To stimulate or decrease the sensory system
- 2.** A way to adapt to an unfamiliar environment
- 3.** To calm him/herself
- 4.** Show frustration
- 5.** Avoid activities or expectations





While your child's stimming may worry you, the behavior doesn't need to be controlled unless it interferes with learning, causes social isolation, is dangerous or causes issues for other family members. If you are worried about the stimming behavior, there are simple ways to manage it.

How to manage stimming behavior:

- **Sensory toys** - Squeeze toys, sensory balls, moldable toys, fidget toys, etc.
- **Eliminate medical conditions** - Certain medical conditions like headaches, ear infections, and pain may be the cause or make stimming worse. Talk with your child's doctor to ensure it's not caused by other medical conditions.

- **Provide a calm environment** - Stimming becomes worse under stressful situations. Try to avoid situations where your child may be easily overwhelmed.
- **Try exercise** - Research shows physical activity releases tension to reduce stimming. It also provides stimulation for those needing it most.
- **Teach self-regulation of emotions** - This involves expressing emotions in a positive way compared to stimming, especially stimming behavior resulting in self-harm.

For more on stimming behavior, read “All About Stimming in Autism Kids.”



All About Stimming in Autism Kids



Stacie Bennett

[READ MORE >](#)

For a parent’s perspective of stimming behavior, read the article “Stimming Behavior and Autism.”



Stimming Behavior and Autism: What it is, Causes And How To Manage It



Liz Talton

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Oral Stimming

Similar to common repetitive motion seen in children with autism, oral stimming involves taste-testing, chewing, and/or swallowing objects. Children who oral stim are often seen with clothing, toys, paper, sensory balls, pencils/pens, and other inanimate objects in their mouth.

But with oral stimming, there are potential dangers to watch out for.

- 1.** Small objects can be swallowed causing health issues
- 2.** Chewing on hard objects causes tooth damage
- 3.** Objects can cause choking



If your child is a “chewer” there are ways to manage and remove potential chewing hazards.

- **Inspect household objects frequently** - Frequently check toys, books, and clothing for missing pieces or any signs of chewing.
- **Offer chewy snacks** - To provide a healthy outlet for oral sensory needs, offer chewy snacks like dry cereal, granola, popcorn, veggie chips, carrots, celery, apples, dried fruit, and fruit snacks.
- **Try chewable jewelry** - Bracelets, necklaces, and pencil toppers made specifically for children with oral sensory needs.
- **Use redirection** - If your child begins to chew on something he/she is not suppose to, redirect the chewing behavior to a “safe” object like sensory balls and chewable jewelry.
- **Offer drinks with straws** - Drinking through straws may fulfill the oral sensory need your child is craving.





5 Management Tips for Oral Stimming



Liz Talton

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Sensory Issues

Children with autism typically display signs of sensory processing disorder. Within sensory processing disorder, there are two types: Sensory avoider (hypersensitive) and sensory seeker (hyposensitive). Whether your child is a sensory seeker or sensory avoider, each type presents different symptoms. But children can display symptoms of both.

A child who is a sensory avoider struggles to process environmental stimuli and becomes easily overwhelmed, therefore they are overly sensitive to their environment. A sensory seeker is under-stimulated by his/her environment resulting in a child seeking out sensory stimulation.

Sensory avoider symptoms:

- Distracted by background noise (normally not noticeable to others)
- Avoids touch (hugs and cuddling)
- Appears clumsy (bumping into things)
- Doesn't tolerate loud noises
- Becomes frightened easily by sudden loud noises
- Very particular about clothing

- Avoids crowds due to loud noise or the possibility of being touched

Sensory seeker symptoms:

- High pain tolerance
- Chews on inanimate objects (oral stimming)
- Stands too close to others
- Jumps, runs, and crashes into things
- Doesn't understand his/her own strength
- Makes loud noises
- Stimming behavior (rocking, spinning)
- Explores the world through touch

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Is Your Child A Sensory Seeker Or Avoider?



Liz Talton

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Synesthesia and Autism

Synesthesia is a rare condition affecting 1% percent of the population. It is a neurological condition where one sense is simultaneously perceived by one or more other senses. Although many people are born with the condition, it's also possible to develop synesthesia later in life. Initial research indicates synesthesia may be genetically inherited.

People with synesthesia may...

- See the word “plane” as mint green
- Picture a skyscraper, but taste blueberries
- Read the number two, but see red



While there's no specific way to diagnose synesthesia, Richard Cytowic, MD and leading synesthesia researcher created specific guidelines for doctors to determine if a child has synesthesia.

Synesthesia guidelines for diagnosis:

- **Involuntary** – Perceptions are not actively thought about, they just happen.
- **Projected** – Instead of seeing things like a color in the “mind’s eye,” a person will see the color outside their body.
- **Durable and generic** – The perceptions must be consistent each time. For instance, when someone hears a particular song, he/she tastes chocolate.
- **Memorable** – The synesthetic perception is remembered over the primary perception. For example, if someone associates the name “Laura” with the color purple, he/she will remember purple and not “Laura.”

Research is now pointing to a connection between autism and synesthesia. Individuals with autism and synesthesia report higher levels of sensory sensitivity. Further research also reports synesthesia tends to appear in individuals with autism who have abilities in memory, art, arithmetic as well as high intelligence.

Although synesthesia doesn't present any problems for a child, if you suspect your child may have synesthesia it's important to get he/she diagnosed to better understand how your child views the world along with autism.



Is There a Link Between Synesthesia and Autism?



Stacie Bennett

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Food Aversions and Autism

Picky eating is common among children. But for children with autism, picky eating turns into food aversions. Research studies found children with autism are five times more likely to have fewer food selections, more mealtime tantrums, and ritualistic eating. *Autism Parenting Magazine* reports children with autism often limit food options to less than five types.



While the specific cause of food aversion and autism is unknown, it's suspected that sensory issues related to food are to blame. Brightly colored food may lead to sensory overload causing specific foods like peppers to be avoided altogether.

Food aversions are challenging for parents with an autistic child. Although your child may be extremely picky about his/her food choices, there are things you can do to help expose your child to new foods to increase food selection.

5 Tips for introducing new food

1. Don't pressure

Don't try and convince your child to "clear their plate." This will only lead to further food aversions. Instead, each time a new food item is introduced, simply leave it on the plate and allow your child to decide to eat it or not.



2. Don't intermix foods

Foods that are intermixed may lead to sensory overload. That sensory overload will only result in food aversions and mealtime tantrums. To avoid this, keep each food item separate. For instance, if you have pasta with broccoli, cheese, and chicken, separate each ingredient. Don't try and 'hide' food ingredients in hopes your child won't notice.



3. Combine new and old favorites

Always combine a new food item with one of your child's favorite foods. If you would like to introduce green beans, pair it with his/her favorite like chicken nuggets. This will give your child the choice to eat the green beans or not while ensuring he/she eat something during mealtime.



4. Eat the same new food

Children with autism learn best through visualization. Show your child the new food item is tasty by eating it yourself. Over time, your child will see the new food item being eaten over and over and may start eating it themselves.



5. Allow them to explore

Instead of keeping your child from playing with his/her food, encourage it! For children with sensory issues, play is key for introducing new foods. Allow your child to taste, smell, and feel the food to get use to it.



Autism And Food Aversions: 5 Tips For Introducing New Food



Liz Talton

[READ MORE >](#)



Resources, Books and Magazines on Autism for Parents

Autism Parenting Magazine

The prime resource for parents of kids with autism, [Autism Parenting Magazine](#), recently included us in their [Helpful Links](#) section! To be endorsed by this noted authority on how to survive and thrive as parents of kids on the Autism Spectrum is an honor, indeed. For even more information about where to find resources for dealing with this challenging disorder, also see [Autism Resources for Parents – The Ultimate New Guide](#).

FREE professional PECS cards and images

Professional, printable and customizable [PECS cards](#).

National Autism Resources

Find resources for [sensory items and classroom](#).

Autism Speaks

Leading authority on all information related to [autism](#).

Conclusion

Autism Spectrum Disorder is a complicated diagnosis. There's no specific cause to its existence and each child displays very different symptoms and severities. This makes it challenging for parenting a child with autism.

Children with autism need extra time to develop at their own rate with the help of doctors, therapy, tools, and a loving and patient parent like yourself! If you believe your child may have autism, an early diagnosis is key. The earlier the signs and symptoms of autism are recognized and diagnosed, the sooner your child will receive the necessary therapy to flourish and reach his/her full potential!



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