

The Role of WIC in Children with Autism: How Can We Help?

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# **Overview**

- · Prevalence of eating issues in ASD
- Nutrition considerations
- Characteristics of ASD related to eating/feeding
- · Strategies to address eating issues



# **Picky Eating: What's Typical? What's**

Not?

Picky Eater	Problem Feeder
Eats at least 30 different foods	Very restricted variety of foods (less than 20).
Accepts a food after taking a break from it for 2 weeks.	After they food jag (eating a food consistently then suddenly refusing that

- · Picky eating is usually temporary.
- PFD involves skill, medical, nutritional, or physiological challenges.
- · ARFID is a mental health diagnosis with serious nutritional and emotional impacts.

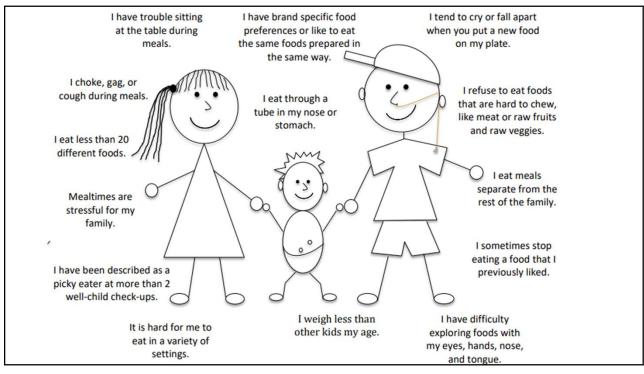
or type of texture.	of texture.
Eats with the family.	May eat at different times or spaces than the rest of the family.
Described as a "picky eater" for less than 2 years.	Described as a "picky eater" for more than 2 years.

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https://therapyworks.com/blog/feeding/sos-feeding-approach/

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#### **PREVALENCE**

An estimated 46–89% of children with autism spectrum disorder (ASD) have feeding problems; 5x higher than the neurotypical

population (Ledford, 2006)

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# **ASD & Pediatric Feeding Disorder**

- Nutrition: rigid food patterns (27%); strong aversions; exclusion of whole food groups
  - Grain products and/or chicken (usually nuggets) were the preferred foods for 92% of children with autism who had limited food preferences
- Medical: GI disturbances, medication side effects
- Feeding skills: hypersensitivity to food textures (46%), pocketing food without swallowing (19%), oral motor impairments, sensory processing
- Psychosocial: Resistance to change, mealtime behaviors, pica (12%), rumination

(Mayes, 2019)



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# **Eating Influencers: Medical**

- Constipation, abdominal pain, diarrhea, gas, and vomiting significantly higher in those with ASD (McElhanon, 2014; Vuong, 2017)
- 9-91% of children with ASD experience GI issues (Ibrahim, 2009)
- Autistic symptomatology may be more frequent/severe in children with comorbid GI problems (Ibrahim, 2009). GI issues should be considered with agitation, food refusal, and sleep disruption (Hyman, 2012)
- Children with ASD have been shown to have different intestinal microbiota populations than neurotypical children (Vuong, 2017)
- Gut imbalances in children with autism may create an imbalance of metabolites in the digestive system — ultimately disrupting neurotransmitter production and influencing behavioral symptoms (Aziz-Zadeh, 2025)

GI issues are not the sole cause of eating issues or ASD characteristics, but they certainly do not help matters

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## **Eating Influencers: Nutrition**

- · Calorie intake similar to peers
- More sugary drinks, refined grains, packaged/snack foods & fried foods
- Fewer fruits, veggies & protein (Evans, 2012)

Food Group	Key Nutrients
Grains	B Vitamins, Minerals, Fiber
Dairy	Ca, Vit D, Vitamin A, B12, Riboflavin, Potassium, Protein
Protein	Iron, Zinc, Magnesium, Protein
Fruits	Vitamin C, Folate, Potassium, Fiber
Veggies	Vitamins A, E, and K, Folate, Fiber



Children with ASD are 8x more likely to have GI issues.

- Vitamin D most often deficient
- Possible deficiencies of vitamins A, E, iron, iodine and
   incomparison of the control of
- C, B6 & B12, calcium, potassium, choline & fiber (Stewart
- Some may nave issues absorbing folic acid



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# Feeding Influencer: Eating Skills

Feeding development in children with normal development vs. those with autism (Al-Beltagi, 2024)

Age range	Normal feeding development	Feeding development in children with autism
0-6 months	Suck-swallow reflexes are well- developed; begins to coordinate sucking, swallowing, and breathing during feeding	May exhibit weak suck, poor coordination of sucking and swallowing, or difficulties breastfeeding
6-12 months	Introduced to pureed foods; begins to develop pincer grasp for self-feeding; starts to handle a variety of textures	It may show oral tactile sensitivity or gagging, a preference for smooth, pureed foods, and delays in self-feeding skills
12-18 months	Progresses to more textured foods; begins to use utensils; starts to drink from a cup	Persistent preference for purees; resistance to textured foods; may continue using a bottle; difficulty using utensils
18-24 months	Eats a variety of foods; able to chew a wide range of textures; uses a spoon and fork more efficiently	Limited food variety; preference for specific textures or types of food; may have incomplete mastication and occasional choking

2-3 years Further develops chewing skills; eats most family foods; drinks from an open may insist on specific foods or avoid cup; uses utensils independently 3-4 years Expands diet to include more complex Persistent selective eating; might insist textures; shows improved self-feeding on using a bottle or refuse sippy cup; skills; less picky eating 4-5 years Eats a wide range of foods; improved Ongoing rigidity with food variety and social eating behaviors; uses utensils textures; may still prefer smooth or proficiently 5+ years Generally eats a varied diet, participates Continues to display selective eating in family meals, fewer food-related

Continued rigidity with food choices; entire food groups; ongoing issues with chewing and swallowing difficulty with mixed textures

specific-textured foods; potential social eating challenges

patterns; may require feeding therapy; potential need for specialized diets to meet nutritional needs

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Five Pillars of NAM® as it relates to eating & nutrition

- 1. Challenge/Unlearn Ableism
- 2. Guide Self-advocacy and Leadership
- 3. Acceptance-based
- 4. Trauma-informed
- 5. Mind-Body connection

https://www.rdsforneurodiversity.com/neurodiversity-affirming-model





#### **Characteristics of ASD Needs**

- Repetitive Routines/Behaviors
- Deep interests
- Language/Communication
- Executive Functioning
- Anxiety/Social interaction
- Gl issues
- Sensory –based food issues



Franklin D. Roosevelt: "Nobody cares how much you know, until they know how much you care."



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Sitting still isn't easy when your inner balance system is on high alert. Even staying in a chair and keeping the head in a neutral position (for safe swallow) can feel like a workout



Bite food with just the right amount of pressure, holding a glass (or a piece of food) and setting it down gently can result in spills and splashes and smashed up foods.



Am I hungry, thirsty, full, nauseous? All these signals at once make it hard to figure out needs and wants.

Parent Role

Co-regulate, provide structure, calm responses, and connection around meal and snack time.





(where all 8 sensory systems show up ready to party)

L. R. Knost "When little people are overwhelmed by big emotions it's our job to share out calm, NOT join their chaos."

(pediatric speechd parent of an Autistic





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# Knowing What to expect Promotes Emotional Wellbeing

# ATN/AIR-P Guide to Exploring Feeding Behavior in Autism

Some researchers estimate that over half of children with autism have some sort of issue with food. These feeding issues can be of significant concern to parents because they can impact their child's health and wellbeing.

This tool kit helps parents and professionals better understand feeding behavior

#### Sections include:

- What are feeding problems?
   Conditions that might affect feeding.
- When to be concerned
   Tips to help with feeding issues at hor
- Tips to help with feeding issues at hor
   Frequently asked questions
- We hope that this tool kit will give you a better understanding of how to help your child with feeding issues.

- Feeding difficulties and Mealtime Challenges are:
  - Common (up to 80%)
  - Stressful
  - Long, Slow Journey

FDR: "Nobody cares how much you know, until they know how much you care."

"Despite dietary selectivity, calories and protein intake often meet your child's needs."

AAP Clinical Report on Management of Children with ASD 2007

Autism speaks: Parent's Guide to Feeding Behavior in Children with Autism https://www.autismspeaks.org/tool-kit/exploring-feeding-behavior-autism

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# Asking and Responding to Feeding Challenges

Family might mention:	You might respond with:
Can't get my child to sit with family/school for meals.	<b>Pillar 1 NAM® - Unlearn ableism</b> "Is it important to your family that everybody sits at the table?" "Could the surroundings of the environment over stimulating?"
My child refuses to drink milk.	<b>Pillar 2 NAM®</b> - <b>Guide Leadership/Advocacy</b> "Make it a priority to review your concerns with your child's primary care physician." OR "Sometimes tummy issues (constipation) or food sensitivities can cause eating issues."
My child is a picky eater. Don't know what to feed my child.	Pillar 3 NAM® - Acceptance-based "What looks like picky eating is actually your child's way of navigating the world and protecting his nervous system." "Children with autism are not just picky eaters, they are sometimes "super tasters" and are able to detect very small changes in foods making it a challenge to find foods to feed them every day."
My child only wants to eat X.	Pillar 4 NAM® - Trauma-informed "sensory trauma" "Children with autism find comfort in the same foods and familiar foods; decreases anxiety during mealtime because they know what to expect from the texture of crackers vs a banana which changes taste and texture the more it ripens."
My child refuses to eat at a meal.	Pillar 5 NAM® - Mind/Body Autonomy "Trust your child's refusal to eat and plan for a nourishing snack after 2 hours as another eating opportunity." "Use outside cues (the timing of a favorite TV show or a special song or a timer) to help child regulate his internal eating cues."

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### **Nutritional Considerations**

Stay out of the weeds!



Instrumental food

Novel food

Good-tasting food

Reliable, ongoing access to food

Acceptable food

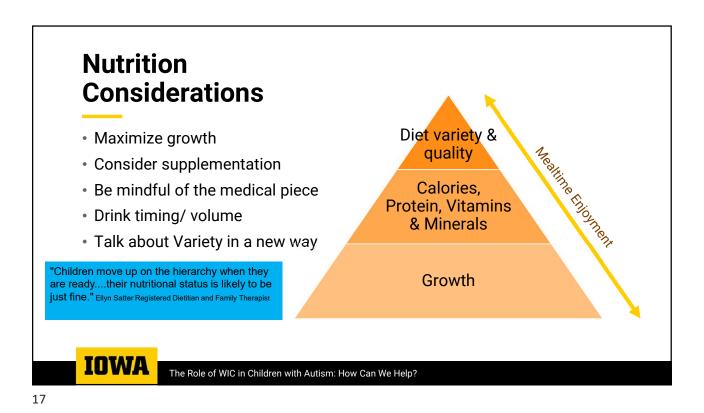
Enough food

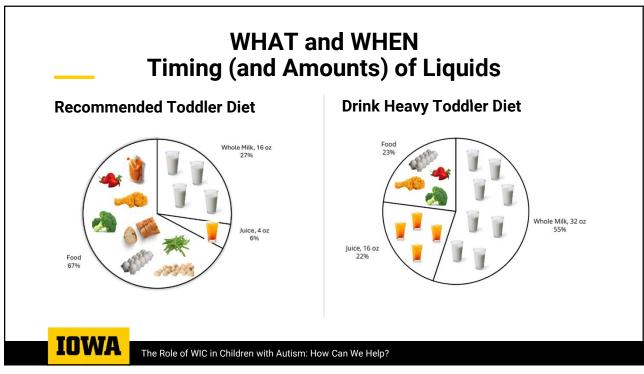
Figure viewer

Figure Satter's Hierarchy of Food Needs.

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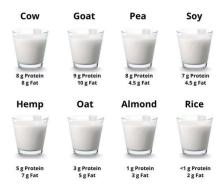




#### GI problems? Concider milk alternates

- Remember up to 90% may have GI problems
- Family history
- Difference between lactose and protein intolerance
- How to best use WIC benefits!

# ANIMAL VS. PLANT-BASED MILK FOR KIDS





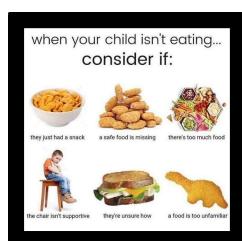
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#### What can the WIC RD do? SUMMARY

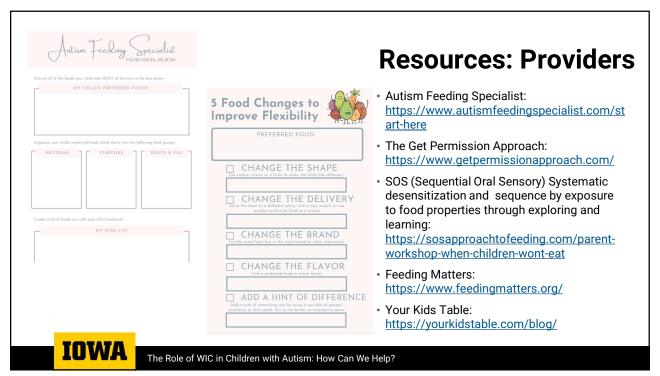
- · Reassure Growth
- Promote Importance of Structure
- · Look for gaps or boulders in the diet
- Offer Sensory information/perspective
- · Give the Autism speaks handout
- Make or encourage outside referrals:
  - AEA
  - ABA
  - Outpatient Therapies
  - CHSC
  - Medical (GI, allergy, sleep)





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#### **Resources - Families**

- Yummy Toddler Food: https://www.yummytoddlerfood.com/about/
- · Instagram:
  - Kids Eat in Color: https://www.instagram.com/kids.eat.in.color/
  - Feeding Littles: <u>https://www.instagram.com/feedinglittles/</u>
  - Solid Starts: <u>https://www.instagram.com/solidstarts/?hl=en</u>
  - My Munch Bug: https://www.instagram.com/mymunchbug\_mel aniepotock/
  - Feeding Picky Eaters: <u>https://www.instagram.com/feedingpickyeaters/</u>

# things that helped real (very) picky eaters try new foods

TRY THESE TO REDUCE & PREVENT PICKY EATING







GETTING IN THE KITCHEN

PLAYING W/ TOYS & REAL FOOD

READING FOOD BOOKS







PLANTING A GARDEN

EXPERIMENTS W/ FOOD

GROCERY SHOPPING



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