



In-person
March 13-16, 2024

Virtual
May - July 31, 2024

45th National Conference on Pediatric Health Care

Is it Just a Picky Eater, Behavioral Food Opposition or ARFID?

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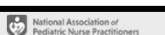
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Experts in pediatrics, Advocates for children.

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Speaker Disclosure

- I have no financial disclosures or conflicts of interest.




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Learning Objectives

- Define the most common behavioral differences in picky eating, eating oppositional behaviors or ARFID (Avoidant Restrictive Food Intake Disorder).
- Identify key history taking findings and physical assessment and diagnostic evaluations (including laboratory tests) that would provide necessary information to determine a diagnosis.
- Recognize normal and abnormal findings of assessment to assist in differentiating normal "picky eating" versus more concerning behavioral outcomes and nutritional disorders that result in poor weight and nutritional status.
- Describe key documentation to support diagnosis, coding and referral, if necessary.
- Identify necessary patient education and resources for best patient management for picky eaters, children using behavioral outcomes to manipulate the eating environment or children with ARFID.




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Important Definitions

- ARFID:** feeding or eating disturbance characterized by avoidance or restriction of food intake and clinically significant failure to meet requirements for nutrition through oral food intake (DSM-5, 2013)
- Picky eating:** common feeding difficulty behavior in early childhood characterized by strong food preferences and refusal to try new foods or even consistently eat familiar ones (Taylor et al., 2015)
- Behavioral food opposition:** behavioral response using food as an oppositional factor in leverage to produce reciprocal responses from parental or adult caregivers



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What do we know about how our food preferences begin?

- Dietary habits reflect basic biology which predisposes them to prefer sweet tastes and to avoid bitter-tasting foods.
- Once adapted, the adoption of this food environment places them at risk for obesity and numerous other conditions.
- Flavors from the mother's diet are transmitted to amniotic fluid and breast milk.
- Children will have repeated and varied opportunities to learn to like the flavors of healthful foods they will likely encounter after initial experiences.

What do we know about how our food preferences begin? (cont.)

- Dietary habits reflect basic biology which predisposes them to
- After weaning, 8-10 exposures to food will increase intake even if the food is initially rejected.
- Further exposures may be required to increase liking.
- Exposing infants and young children to a variety of flavors promotes infants' willingness to consume novel foods.

What does that mean for food adoption for infants?



What does that mean for food adoption as adults?



- Hunger
- Appetite
- Taste
- Cost
- Availability
- Culture
- Peers
- Media

Think back to childhood...Favorites?



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Three different patients.....

- **John** is a 15-year-old male (full term, well nourished at birth)
- Unremarkable early eating behaviors
- 2-3-year history of declining dietary habits
- Poor weight gain, poor growth chart consistency
- Increasing social isolation related to food choices (or lack thereof)
- Increased stress in family dynamics related to mealtime

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John.....

- Was within typical norms on growth curves, then plateaued..and has since fallen off growth curve
- Physical exam shows a very thin, pale, anxious male
- 24 hour food recall is about 50-75% of the ideal caloric intake
- Portion sizes are small
- He complains of early satiety
- He refuses to go to any sleep overs or birthday parties

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John.....and John's food.....



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Three different patients.....

- **Sammy** is an 11-year-old male (full term, well nourished at birth)
- Unremarkable early eating behaviors when away from home
- Prefers proteins, will not drink any milk, will try to hide food to "get dessert"
- Good weight gain, growth chart consistency
- Increasing behavioral confrontations related to food choices (or lack thereof) at home
- Increased stress in family dynamics related to mealtime,

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Sammy.....

- Was within typical norms on growth curves, but has been consistent at the 95% for the last 4 years
- Physical exam shows an overweight, interactive male
- 24 hour food recall is about 100-150% of the ideal caloric intake
- Portion sizes are adequate, not as many fruits and vegetables
- Eats dessert at every meal
- Parents report that they frequently give in "to his tantrums" when trying to support healthy eating choices
- Will sometimes eat same (fight provoked) food when out with friends

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Sammy.....and Sammy's food



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Three different patients.....

- Taylor is a 12 year old girl.....
- Has a "slow to warm up" personality.....
- Eats slowly and methodically....meals can take a LONG time
- Will try new foods, but only after closely inspecting it
- Trying of new foods means only a nibble or two on initial introduction
- Finds it difficult to try "new" restaurants if she does not know the menu

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Taylor.....

- Full term, well-nourished at birth
- Is within the typical norms on growth curves
- Physical exam shows a smiling, interactive child
- 24 hour food recall is about 75-90% of the ideal caloric intake
- Portion sizes are small with frequent repeats of food
- Snacks twice daily
- Her nutritional bloodwork demonstrates mild IDA
- She attends social functions easily

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Taylor.....and Taylor's food



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Thinking about picky eaters vs. ARFID?

The picky child will eventually eat....



The ARFID child could starve to death....



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Significant ARFID findings (Physical and Psychological)

- Significant weight loss
- Abdominal pain
- Fatigue
- Cold intolerance
- **No body image struggles**
- **No fear of weight gain**

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Significant ARFID food and eating behaviors

- Worsening picky eating (caregivers are now noticing)
- Avoid or refuse entire food group
- Sensitive to smell, texture and temperature
- Only eating food of a similar color, brand or texture
- Severe anxiety around new foods
- Lack of interest in food
- Fears around food: fear of vomiting, choking, allergies
- Avoid social events

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Differences Between ARFID and Picky Eating

| | ARFID | Picky Eating |
|--|--|--|
| Feeding tubes/Nutritional supplements | May require nutritional supplements or feeding tubes to be able to have sufficient nutrition during treatment. | Does not usually require supplementation to meet their caloric needs and maintain typical growth and development |
| Psychosocial Functioning | Significant interference with psychosocial functioning | No significance interference with psychosocial functioning |

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Differences Between ARFID and Picky Eating

| | ARFID | Picky Eating |
|-----------------------------|---|--|
| Treatment Priorities | Requires intensive, multi-disciplinary approach including family therapy, adjunct medications and additional psychotherapy. | Requires a less intensive approach. Uses parental or adult modeling, repeated exposures to unfamiliar foods. Promotes positive mealtime preferences and offers mealtime options when possible. |

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What causes ARFID? (Not known, may be multifactorial)

- Child's temperament
- Genetic basis
- Triggering events
- Concurrent medical/developmental/psychological conditions
- A child who is already predisposed to ARFID due to biological or genetic makeup may be triggered by environmental or psychosocial situations, such as a traumatic event

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Making an Eating Disorder Friendly Office...

- Consider getting “blind weights” in underwear or paper gowns
- Maintain a neutral demeanor when obtaining weight
- Do not talk about food in terms of “calories”, consider exchanges
- Stress the importance of “exchanges” meeting the necessary nutrients and energy needs
- Providers should know the basic caloric requirements for each age group and have a “caloric blinded” template to offer the patient/family.

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What can the PNP do to provide care for these patients and families?

Assessment

- VS including blood pressure, consider orthostatic measures
- Temperature
- EKG (may be done as an outpatient)
- Complete physical
- Screen for anxiety/depression

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Managing Initial Eating Disorder Assessments Lab work-Chemistry

| Test | Considerations | Norms (may vary by lab) |
|------------|--|---------------------------|
| Glucose | Main energy sources, lows may cause dizziness, seizure | 70-100 (may be low) |
| Albumin | Longer term assessment of protein | 3.4-5.4 g/dl (may be low) |
| Prealbumin | Better assessment of more recent protein intake | 15-36 mg/dl |
| BUN | Kidney function, low may indicate dehydration | 5-18 mg/dl, 10-20 mg/dl |
| Creatinine | Malnutrition may cause it to be low | Vary with age, gender |
| Calcium | May be low if deficient | 9-10.5 mg/dL |

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Managing Initial Eating Disorder Assessments Lab work-Chemistry

| Test | Considerations | Norms (may vary by lab) |
|-----------------|---|-------------------------|
| Ionized calcium | Better indicator of calcium status | 4.4-5.4 mg/dL |
| Sodium | May vary with hydration | 135-145 mEq/l |
| Phosphorous | May drop early in refeeding, varies with fluid shifts | 2.4-4.1 mg/dL |
| Potassium | May vary with hydration and activity level | 3.5-5 mEq/L |
| Magnesium | May drop early in refeeding | 1.7-2.2 mg/dL |
| Chloride | May vary with hydration | 98-108 mmol/L |

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Managing Initial Eating Disorder Assessments Lab work-Hematology/Nutrient

| Test | Considerations | Norms (may vary by lab) |
|-------------|---|-------------------------------|
| Hemoglobin | Protein carrying oxygen in blood | Norms based on age and gender |
| Hematocrit | Can be influenced by low levels vitamins/nutrients | Norms based on age and gender |
| Serum Iron | Low with lack of iron containing foods: red meat and green leafy vegetables | 60-170 mcg/dL |
| Zinc | Supports the immune system | Can vary, 0.66-1.10 mcg/mL |
| Vitamin B12 | Maintains nerve function, production of blood cells | 200-900 ng/dL |
| Folate | High risk for deficiency in vegetarians and vegans | 2.5-10 ng/ml |
| Vitamin D | Helps body absorb calcium | Greater than 30 ng/ml |

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Goals for ARFID and beyond....

- Thinking of food for energy, acknowledge the role it plays in our life
- Achieve and maintain a healthy weight and healthy eating patterns
- Increase the variety of foods eaten (no food deserts: social implications)
- Learn ways to eat without fear of pain, choking, allergies

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Managing Initial Eating Disorder Management from the PCP

- Food diary: What they eat, when, how much, with whom and how are they feeling, can be easier with pictures
- Food pictures are also great when they are attempting to meet food goals
- Food intake lists (can be fun...or overwhelming) pictures for interest ("ugly fruit")
- Setting food goals: 1 new food, bring back 1 safe food (put in chart, "contract")
- Increasing intake (mechanical)Setting food goals: 3 extra sips, 3 extra bites of safe foods (need to increase stomach capacity)

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Food chaining (works for ARFID and picky eaters)

- Taking child's safe food and slowly introducing them to similar foods so they can start to increase their variety
- Only introduce one or two new foods at a time (it can be overwhelming and stressful for the patient AND family)
- Food chaining links between food profiles
- Uses sensory measures like similar textures, colors, smells, or flavors
- Ex. Rice, couscous, stelline, orzo, ditalini, orecchiette, farfalle, rotini
- Ex. Butter, olive oil, parmesan, blush sauce, marinara, salsa
- Slow combining!!! (Casseroles can be scary!!!)

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Family Involvement in Treatment

- Be a role model. Support a variety of foods in family eating.
- Schedule regular meals and snacks. Every time is a new opportunity/exposure.
- Regular family meals in pleasant environment. Avoid battles!
- Encourage, support, do NOT force! (You cannot force feed your child...it is illegal ☹)
- Reward positive eating behaviors! (Your child may have equaled or surpassed the achievement of honor roll or sports win)
- Find innovative ways to manage anxiety and stress around food (or anything)!
- Stay calm, avoid criticizing your child, avoid blame on them...or yourself!

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Managing Initial Eating Disorder Management from the PCP

- Consider treating the anxiety (weight can impact response)
- Anxiety based psychotherapy referrals
- Parents/Caregivers/Sibs need support too!
- Respite care (Families should go eat out! And ...identify "safe" restaurants to re-introduce patient to that environment)
- Developmentally appropriate planning: birthday parties, sports team buses, school "pizza" parties, dating, COLLEGE (may need notes to prepare own food. Dining Hall is the goal!)

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Medications that may be used in ARFID (very few studies to support ☹)

- Anxiety medications (Fluoxetine, Escitalopram): best option
- Cyproheptadine (off label)
- Mirtazapine (off label)
- Lorazepam (off label)
- Olanzapine (off label)
- Child may also be on additional medications: ADHD

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Managing PCP visits for this complex eating disorder

- Usually an established patient
- Get 24 hour diet recall (weekday vs. weekend), duration, food refusals, % completed
- 99214 presenting problem(s) are of moderate to high severity
- Moderate level of medical decision-making
- 30-39 minutes of total spent day of encounter (caloric conversion)
- Problem focused history (4 items)
- Problem focused examination
- Moderate complexity decision-making

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Managing ARFID and complex eating disorders

- Dietician
- Speech-language pathologist (swallowing and feeding evaluation)
- Cognitive-Behavioral Therapy (specialized)
- Family-based therapy
- Occupational therapy

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Some interesting presentations in new patients

- A 10-year-old male patient in the 5th grade who heard about “good” food and “bad” food in health class.
- An 11-year-old male who saw his older brother “load on protein” to be a better “lifter” (decreased fruits, veggies and carbs)
- An 11-year-old female who gave up “sweets” for Lent...and went on to carbohydrates and grain-based foods
- A 15-year-old female who fixated on “healthy and organic” foods when the family food budget could not support that.

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Our work in Eating Disorders at Oishei Children's Hospital in Buffalo, NY



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My Favorite ARFID kiddo!



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