



How to treat patients with ARFID via telehealth

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Disclosures





- I receive royalties from Cambridge University Press for the sale of my books *Cognitive-Behavioral Therapy for Avoidant/Restrictive Food Intake Disorder: Children, Adolescents, and Adults;* and *The Picky Eater's Recovery Book: Overcoming Avoidant/Restrictive Food Intake Disorder.*
- I receive royalties from Harvard Health Publications/Hazelden for the sale of my book, Almost Anorexic: Is My (Or My Loved One's) Relationship with Food a Problem?.
- I receive an honorarium for serving as Associate Editor of the *International Journal of Eating Disorders*.
- I receive a travel stipend for my role on the Board of Directors of the Academy for Eating Disorders.







1. How is ARFID assessed?

2. What is CBT-AR, and how can it be delivered via telehealth?

3. How can digital tools support CBT-AR delivery?







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2. What is CBT-AR, and how can it be delivered via telehealth?

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DSM-5 Criteria for ARFID

- Persistent failure to meet nutritional needs, causing
 - Significant weight loss/poor growth
 - Significant nutritional deficiency
 - Dependence on supplements
 - Psychosocial impairment
- Not due to lack of available food
- Not accounted for by other medical or psychiatric condition
- No fear of weight gain or body image disturbance



APA, 2013



3 Prototypical ARFID Presentations





Food selectivity due to sensory sensitivity



Fear of aversive consequences



Lack of interest in food or eating







categorical or dimensional?

Figure 1a. Categorical Model of Avoidant/Restrictive Eating



Thomas et al., 2017, Curr Psychiatry Rep





- Pica, ARFID, and Rumination Disorder Questionnaire (PARDI) ARFID-Questionnaire (PARDI-AR-Q)
 - Self-report questionnaire that maps on to DSM-5 criteria
 - Includes severity of impact and severity of each ARFID prototype
 - Self version for youth and adults; parent version for children
 Bryant-Waugh et al., 2019 *IJED*; Thomas et al., in prep, 2020 *EDRS*
- Nine-Item ARFID Survey (NIAS)
 - Self-report screener
 - Cut-offs validated to detect each ARFID prototype:
 - ≥ 10 Sensory/Pick Eating Subscale
 - ≥ 10 Fear Subscale
 - ≥ 9 Lack of Interest Subscale
 - Adult survey available, with pediatric surveys forthcoming





Does neurobiology underlie

ARFID dimensions?



- R01 (MH 108595, PIs: Thomas, Lawson, & Micali)
- 134 males & females (100 ARFID or A/R eating, 34 HC) ages 10-23yo
- Examining neurobiology of ARIFD and its 3 profiles



MG

1811



in ARFID compared to AN







ARFID fear of aversive consequences profile is uniquely associated with anxiety disorders



Anxiety, obsessive compulsive, and traumarelated disorders were the most common comorbid diagnosis in our ARFID sample

- 35% current
- 41% lifetime

		Anxiety, obsessive-
Fear of Aversive	OR = 2.14	compulsive, and
<u>Consequences</u>	<i>p</i> = .031	trauma-related
		disorders

Kambanis et al., 2020 IJED



ARFID treatment should target



these mechanisms



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JENNIFER J. THOMAS KAMRYN T. EDDY

CHILDREN, ADOLESCENTS, AND ADULTS

Medicine

Overcoming

Food Intoke Disorder

cognitive-behavioral therapy for Avoidant/Restrictive Food Intake Disorder

Jennifer J. Thomas, Kendra R. Becker and Kam yn T. Eddy



Cognitive-Behavioral Therapy for



- Flexible, modular treatment for children, adolescents, and adults with ARFID that comprises ~20 sessions over 4 stages:
 - 1. Psychoeducation & early change
 - 2. Treatment planning
 - 3. Addressing maintaining mechanisms (<u>exposure to</u> <u>new food- and eating-related situations</u>)
 - 4. Relapse prevention
- Offered in 2 formats:
 - Family-supported (patients < 16yo and/or underweight)
 - 2. Individual (patients > 16yo, not underweight)



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Tips on delivering CBT for eating disorders via telehealth

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WILEY

CLINICAL FORUM

WILEY

Cognitive-behavioral therapy in the time of coronavirus: Clinician tips for working with eating disorders via telehealth when face-to-face meetings are not possible

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Children, adolescents, or adults ages who:

- •Have a diagnosis of ARFID
- •Are able to cognitively engage in treatment
 - Are ages 10 and up
 - If a developmental disorder is present, it is of mild severity
- •Are eating by mouth
 - Are at least able to orally consume liquids or soft foods
 - Do not require tube feeding
- Monitored by a physician
 - ARFID can have serious medical consequences
 - Patients who are underweight are at risk for re-feeding syndrome





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Telehealth tip: In-person medical evaluation is crucial





- 1. Verbally set the session agenda
- 2. Weigh the patient
- 3. Review homework from last session
- 4. Implement intervention related to current treatment stage
- 5. Review any agenda items brought in by patient and/or significant other(s)
- Plan at-home practice task(s) to be completed before next session



- 1. Verbally set the session agenda
- 2. Weigh the patient
- 3. Review homework from last session
- <u>Telehealth tip:</u> Patient will need a scale at home
- 4. Implement intervention related to current treatment stage
- 5. Review any agenda items brought in by patient and/or significant other(s)
- Plan at-home practice task(s) to be completed before next session





- Psychoeducation on ARFID
- Self- or parent-monitoring
- Regular eating (eating preferred foods at each meal/snack)
- Personalized formulation
- If weight gain needed:
 - Set clear goal weight range in collaboration with medical provider (and weigh patient at each session)
 - Increase volume of preferred foods before variety
 - Conduct in-session therapeutic meal to provide coaching
- If weight gain is not needed:
 - Make small changes in presentation of preferred foods and/or reintroduce recently dropped foods



CBT-AR: Stage 1

Telehealth tip: Screenshare any handouts you use

- Psychoeducation on ARFID
- Self- or parent-monitoring
- Regular eating (eating preferred to the meal/snack)
- Personalized formulation
- If weight gain needed:

<u>Telehealth tip:</u> Use an app for self-monitoring

- Set clear goal weight range in collaboration with medical provider (and weigh patient at each session)
- Increase volume of preferred foods before variety
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Stage

Stage 1: Psychoeducation on ARFID



What is ARFID?

Avoidant / Restrictive Food Intake Disorder

• People with ARFID eat a very limited variety or amount of food and it causes problems in their lives

• These problems may be health-related, like losing too much weight, or not getting enough nutrients

• These problems may be social, like not being able to eat meals with others

ARFID is different from other eating disorders, like anorexia nervosa, because people with ARFID do not worry much about how they look, or how much they weigh. Instead, people with ARFID might have one, two, or all three of these important concerns:



1. Some people with ARFID find that novel foods have strange or intense tastes, textures, or smells, and they feel safer eating foods that they know well

2. Others have had scary experiences with food, like throwing up, choking, or allergic reaction, so they may avoid the foods that made them sick, or stop eating altogether

3. Still others don't feel hungry very often, think eating is a chore, or get full very quickly

ARFID is a Psychiatric Disorder

It's important to understand that someone with ARFID is not just being "picky" or "stubborn"



People with ARFID have underlying biological traits that initially made their eating habits a logical choice

Once established, a pattern of food avoidance can become longstanding and highly resistant to change

GOOD NEWS!

There are helpful steps patients and families can take to interrupt these patterns of behavior

Fhomas, J.J. and Eddy, K.T. (2018). Cognitive-Behavioral Therapy for Avoidant/Restrictive Food Intake Disorder: Children, Adolescents, & Adults. Cambridge: Cambridge University Press.





- Rapid change is the expectation from day 1!
- For patients who need to gain weight:
 - Start adding 500 calories/day this week
- For patients who do not need to gain weight:
 - Small change in presentation of preferred food
 - Re-introduce previously dropped food
 - Rotate preferred meals
 - Eliminate minor safety behavior







Thomas & Eddy, 2019,

Cambridge University Press

Massgeneral.org/eatingdisorders



Stage 1: CBT Model





Thomas & Eddy, 2019,

Cambridge University Press

Massgeneral.org/eatingdisorders





(underweight patients only)

- Meal comprises energy-dense preferred foods plus one novel presentation item
- Therapist coaches parents to give specific instructions (or coaches patient) to increase volume
 - Increase eating speed ("Don't put down your fork")
 - Specific requests ("Take another bite of pizza")
 - Persistence with reasonable demand ("I know you can do it. Take another bite.")
 - Specific praise ("Great work finishing your pasta!")
- After patient has eaten adequate volume, parents (or therapist) encourage one bite of novel item





(underweight patients only Telehea

 Meal comprises energy-dense preferre one novel presentation item <u>Telehealth tip:</u> Have patient or family put device right at the kitchen table

- Therapist coaches parents to give specific instructions (or coaches patient) to increase volume
 - Increase eating speed ("Don't put down your fork")
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CBT-AR Stage 2





- Psychoeducation about 5 basic food groups and nutrition deficiencies
- Select new foods to learn about in Stage 3







** p < .01 Harshman et al., 2019, *Nutrients*





Deficiency	Signs and symptoms	Foods rich in this nutrient (in order of nutrient density)
Vitamin B12	Fatigue, weakness, constipation, loss of appetite, weight loss, numbness, tingling, depression, confusion, poor memory, soreness of mouth/tongue	Liver (all types), fish, meat, poultry, eggs, milk, yogurt, cheese, nutritional yeast Tip: Vitamin B12 is found in animal products and not plant based foods
Vitamin C	Severe deficiency (scurvy) can cause tiredness and weakness with severe medical complications	Bell peppers, orange juice, oranges, grapefruit juice, kiwi, broccoli, strawberries, Brussels sprouts, grapefruit
Zinc	Poor growth, loss of appetite, low immune function, taste changes, depression, hair loss, diarrhea, eye and skin lesions	Oysters, crab, beef, lobster, pork, baked beans, chicken, yogurt, cashews, chickpeas, cheese, oatmeal, milk, fortified cereals Tip: Zinc is easier to absorb in animal sources



Stage 2: Building Blocks worksheet



	Consistently eating?	Willing to learn about?	Number of tastes since starting CBT-AR?							
FRUITS										
100% Fruit juice										
Apple juice										
Cranberry juice										
Grape juice										
Grapefruit juice										
Mango juice										
Orange juice										
Papaya juice										
Pineapple juice										
Pomegranate juice										
Prune juice										
Berries										
Acai berries										
Blackberries										
Blueberries										









CBT-AR: Stage 3



Sensory Sensitivity Module



Food selectivity due to sensory sensitivity

- Select foods to learn about that
 - Increase representation from 5 food groups
 - Correct nutritional deficiencies
 - Reduce psychosocial impairment
- <u>Early sessions</u>: Repeated exposure to very small portions
- <u>Later sessions</u>: Incorporate larger portions into meals and snacks to meet calorie needs



Stage 3: Sensory Sensitivity



Ask yourself these FIVE questions when approaching a new food!

Trying a new food can be overwhelming at first. The next time you encounter a new food, slow down and give yourself a few minutes to explore it as if you've never seen it before. Try to use neutral words without describing foods as good or bad.



The Five Steps





Stage 3: Sensory Sensitivity

#3

What does it

smell like

(e.g., strong,

bitter]?



Ask yourself these FIVE questions when approaching a new food!

Trying a new food can be overwhelming at first. The next time you encounter a new food, slow down and give yourself a few minutes to explore it as if you've never seen it before. Try to use neutral words without describing foods as good or bad. <u>Telehealth tip:</u> If patient wants to try a new food with high allergy potential (e.g., peanuts) check with PCP first

The Five Steps



#1 What does it look like (e.g., green, round)?



<u>Telehealth tip:</u> Impossible to "forget" items for tasting in athome therapy. Send them to fridge/kitchen!

What taste like (e.g., sweet, salty)?

(e.g., chewy, soft)?



Stage 3: Sensory Sensitivity



Strategies for Incorporating New Foods at Home



*In CBT-AR, you first learn about new foods by <u>TASTING</u> small amounts of simple foods and practicing this at home

*As you continue to learn about more foods, you will work on mixing foods together and trying complex foods

*As you become more comfortable with these foods, it is time to INCORPORATE them into your meals and snacks

Here are some strategies for incorporating new foods into your meals and snacks at home

Fade it in

Start with a high proportion of a preferred food (e.g., applesauce) and add a small portion of a novel food (e.g., pieces of raw apple). Then gradually increase the proportion of the novel food while fading out the preferred food



Add some spice

Preferred condiments and spices can act as training wheels for trying new foods. For example, add cheese to your broccoli, ketchup to your meat, ranch dressing to your carrots, or garlic salt to vegetables



3 Chain to a goal

Use a preferred food to chain to a novel food. For example, if you currently prefer potato chips, try veggie chips. Before you know it, you might feel comfortable trying raw veggies!



Switch it up

If at first you don't succeed, try, try again -but change it up! Try different presentations of novel foods. Think cooked versus raw, salted versus unsalted, etc





If you have never tried a new food like pizza, try starting with one component of the food and then layering on individual components one-by-one. For example, try crust alone, then crust with cheese, then crust with cheese and sauce, and, finally, a slice of pizza!

Thomas, J.J. and Eddy, K.T. (2018). Cognitive-Behavioral Therapy for Avoidant/Restrictive Food Intake Disorder: Children, Adolescents, & Adults. Cambridge: Cambridge University Press.



CBT-AR: Stage 3



Fear of Aversive Consequences Module



Fear of Aversive Consequences

- Provide psychoeducation on how avoidance increases anxiety
- Create exposure hierarchy to include small steps leading up to food or eating-related situation that led to initial avoidance
- Continue exposures until patient has completed the most distressing task on the hierarchy





Consequences





Stage 3: Fear of Aversiv

Consequences

<u>Telehealth tip:</u> Screenshare any handouts you use

Avoidance Increases Anxiety



Your anxiety increases when you think about trying an avoided food and decreases when you decide not to. However, anxiety increases even more when you consider trying the food again, and decreases less when you decide not to. In other words - you get more scared and worried every time you avoid!

Exposure Decreases Anxiety



If you try a novel food, your anxiety will increase at first, but it will ultimately decrease as you keep practicing.

The best way to learn whether your predictions will really come true and that you can cope with fear is to eat foods that you fear!



for ARFID fear of aversive consequences

What are you afraid will happen? "If I eat pizza, I will vomit."

How certain are you that you will vomit? 90%

What is your SUDS rating (0-100)? 50 Eat pizza in session



What actually happened? "I felt nauseous but didn't actually vomit."

How certain are you that you will vomit next time you eat pizza? 50%

What is your SUDS rating (0-100)? 30





CBT-AR: Stage 3



Lack of Interest in Food or Eating Module



Lack of interest in food or eating

- Interoceptive exposures to increase tolerance of physical sensations:
 - <u>Fullness</u>: Rapidly drink several glasses of water
 - <u>Bloating</u>: Push belly out
 - Nausea: Spin in chair
- Self-monitoring to increase awareness of hunger and fullness
- In-session practice with highly preferred foods





- Evaluate treatment progress
 - Patients unlikely to become "foodies," even if treatment is successful
 - CBT-AR is designed to expand diet, restore weight, correct nutritional deficiencies, and reduce psychosocial impairment related to ARFID
- Co-create relapse prevention plan
 - Identify CBT-AR strategies to continue
 - Set goals for continued progress





- What is the current evidence for CBT-AR?
 - a. Case reports^{1,2,3,4}
 - b. Two open trials^{5,6}
- Both studies provided support for the feasibility, acceptability, and proof-of-concept of CBT-AR across the lifespan

¹Thomas et al., 2017 NEJM; ²Thomas & Eddy, 2019 manual; ³Becker et al., 2020 JAACAP;

Murray et al., in prep; ⁵Thomas et al., 2020 *IJED*; ⁶Thomas et al., in press



Pre

Post

80-75

Pre

Post

Evidence of CBT-AR for children





ARFID

No ARFID

Thomas et al., 2020, IJED Massgeneral.org/eatingdisorders



Evidence for CBT-AR in adults





Thomas et al., in press, JBCT Massgeneral.org/eatingdisorders







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Questions?

- CBT-AR: jjthomas@mgh.harvard.edu
- Recovery Record: <u>elissa@recoveryrecord.com</u>

Books about CBT-AR

- Cognitive-Behavioral Therapy for Avoidant/Restrictive Food Intake Disorder: Children, Adolescents, & Adults (Thomas & Eddy, 2019)
- The Picky Eater's Recovery Book: Overcoming Avoidant/Restrictive Food Intake Disorder (Thomas, Becker, & Eddy, 2021)

Download CBT-AR patient/family workbook (free)

<u>https://bit.ly/2WvDdy6</u>

Download Pica, ARFID, and Rumination Disorder Interview (PARDI) (free)

- <u>https://bit.ly/2vQD1hq</u>
- Obtain PARDI-AR-Q: <u>rachel.bryant-waugh@slam.nhs.uk</u>

Recovery Record

• <u>https://www.recoveryrecord.com</u>