



University
of Houston
Clear Lake

2015-16 Autism Speaker Series

“One Bite at a Time: Manageable Mealtimes for the Fussy Eater”



CADD
CENTER FOR AUTISM AND
DEVELOPMENTAL DISABILITIES

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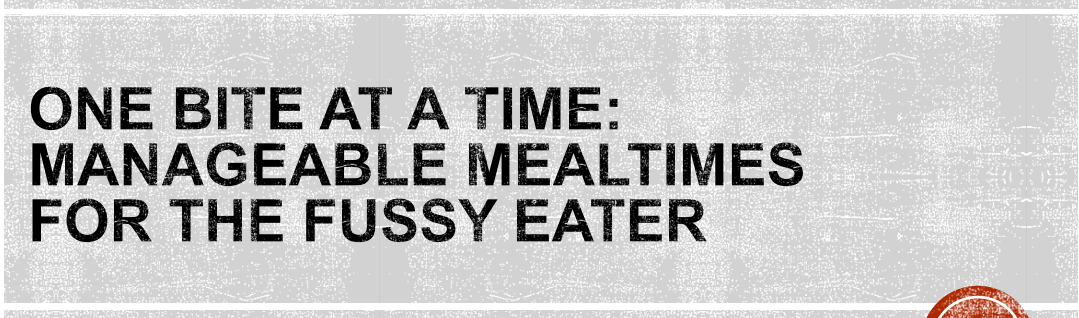






Please visit their tables during the break and
after the lecture!







ONE BITE AT A TIME: MANAGEABLE MEALTIMES FOR THE FUSSY EATER

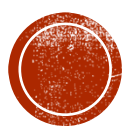
Bridgette White, B.A.

University of Houston-Clear Lake





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WHAT IS A FEEDING DISORDER?

A FEEDING DISORDER IS:

- Difficulties with eating and/or drinking that affect weight and nutrition
- History of oral or enteral consumption of nutrients that deviates from the norm enough to lead to negative social or health consequences

Extreme Food/Fluid Selectivity or Refusal

- Type
- Texture
- Brand
- Shape
- Color

Medical Conditions

- Reflux
- A severe illness

Physical Limitations

- Poor oral motor skills
- Difficulty chewing and swallowing

(nationwidechildrens.org)



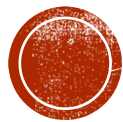
SOME FACTS ABOUT FEEDING DISORDERS

- **25%** of all children are reported to have some form of feeding disorder
 - Increases to **80%** reported with developmentally delayed children
- Does not discriminate:
 - Healthy children
 - Gastrointestinal disorders
 - Special needs

(Manikam & Perman, 2000)

COMMON TYPES OF FEEDING DISORDERS

Rumination	Pica	Food/Liquid Refusal	Food/Liquid Selectivity
<ul style="list-style-type: none"> ▪ Repeatedly bringing up (regurgitating) food ▪ Repeatedly rechewing food 	<ul style="list-style-type: none"> ▪ Persistent and compulsive cravings to eat nonfood items ▪ Examples: <ul style="list-style-type: none"> ▪ Glue ▪ Paint chips ▪ Paper 	<ul style="list-style-type: none"> ▪ Refusing certain foods/liquids ▪ Risk of malnourishment 	<ul style="list-style-type: none"> ▪ Refusing foods/liquid selectivity ▪ Only eats/drinks select items ▪ Risk of malnourishment



WHERE DO I START?

→ Consider the biological, medical,
and behavioral factors

MEDICAL/BIOLOGICAL FACTORS

- Physical limitations
 - Cleft-lip and palate
 - Oral motor difficulties
- Medical issues
 - Gastro-esophageal reflux disease (GERD)
 - Food allergies
- Sleep dysregulation

(Laud, Girolami, Boscoe, & Gulotta, 2009)



MAKE SURE YOUR CHILD IS MEDICALLY CLEARED BEFORE YOU START AN INTERVENTION

- ➔ Number one priority is to make sure there is no physical/medical issues that explains why your child isn't eating

Note: Most clinics require a doctor's note that indicates a child is cleared to begin a feeding program

CHALLENGING BEHAVIORS

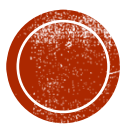
- Some challenging behaviors may need to be addressed prior to the feeding intervention
 - Aggression
 - Tantrums



BEHAVIORAL FACTORS

- Keep an eye on those consequences!
 - Receiving toys
 - Receiving preferred/different foods
 - Attention
 - Escape from different foods/dinner table

(Laud, Girolami, Boscoe, & Gulotta, 2009)



CHALLENGING BEHAVIORS DURING MEALTIMES

CHALLENGING BEHAVIORS

Food Refusal:

- Crying
- Turning head away
- Spitting out food
- Throwing utensils
- Holding/packing food in mouth
- Aggression
- Getting out of seat

Other Behaviors:

- Coughing
- Gagging
- Vomiting
- Self-injurious behavior

(Laud, Girolami, Boscoe, & Gulotta, 2009)



EXAMPLES



RECEIVING TOYS

Before



Then...



Behavior



Then...



After



PROBLEMS MAY EMERGE

Before



Then...



Behavior



+



After



Then...



Then...



ESCAPE FROM FOOD

- Removing a bite of food after challenging behavior has occurred
- Example:
 - You give Alice a carrot to eat
 - She starts screaming
 - You then remove the carrot
 - Alice stops screaming

(Piazza, Fisher, Brown, Shore, Patel, Katz, Sevin, and Gulotta, 2003)



ACCESS TO ATTENTION

- Getting attention for engaging in challenging behavior
- Example:
 - You give Jon a piece of an apple to eat
 - Jon throws the apple on the ground
 - You then say, "You like apples!" or "Don't throw your food, apples are good for you!"



(Piazza, Fisher, Brown, Shore, Patel, Katz, Sevin, and Gulotta, 2003)



PROBLEMS MAY EMERGE

Before



Then...

Behavior



+

After



ACCESS TO PREFERRED ITEMS

- Getting:
 - Preferred toys
 - Preferred foods
 - Preferred drinks
- When the child engages in challenging behavior



Includes getting a bottle

(Piazza, Fisher, Brown, Shore, Patel, Katz, Sevin, and Gulotta, 2003)



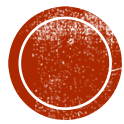
STRATEGIES TO IDENTIFY WHY YOUR CHILD OR LEARNER IS REFUSING TO EAT



OBSERVE THE MEALTIME BEHAVIOR

- Schedule an appointment with a Behavior Analyst to come observe a mealtime
 - Videotape mealtimes if this is not an option
- The Behavior Analyst will:
 - Determine what causes of the inappropriate mealtime behavior(s)
 - Will be able to directly observe





DAILY FOOD LOG




KEEPING TRACK OF HELPFUL INFORMATION

- Keep track of last meal/snack times:
 - Sleep regulation
 - Set mealtimes
 - Number of portions
 - Set snack times
- If taking medicine:
 - Side effects

All of these can impact the success of feeding!



Date	Meal/Snack Time	Food Item(s)	How Much Consumed	Take Medication (?)	Hours Slept
1/23/16	7:00 am	Oatmeal, OJ,	1 cup 8oz	Y	8hrs 30min
	10:30 am	Greek yogurt, Water	2 bites 10oz	N	
	12:00 pm	Sandwich, Chips, Water	5 bites 1.5oz (all) 10oz	N	
	2:30 pm	Fruit Snacks, Choc. Milk	3 gummies 8oz	N	

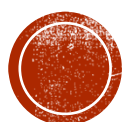


FOOD LOG: NOW WHAT?

- Try scheduling snack times further away from meal times
- If you suspect medicine may be affecting your child's appetite
 - Go see your Doctor!
 - Bring the food log with you
- Bring the food log to a Behavior Analyst



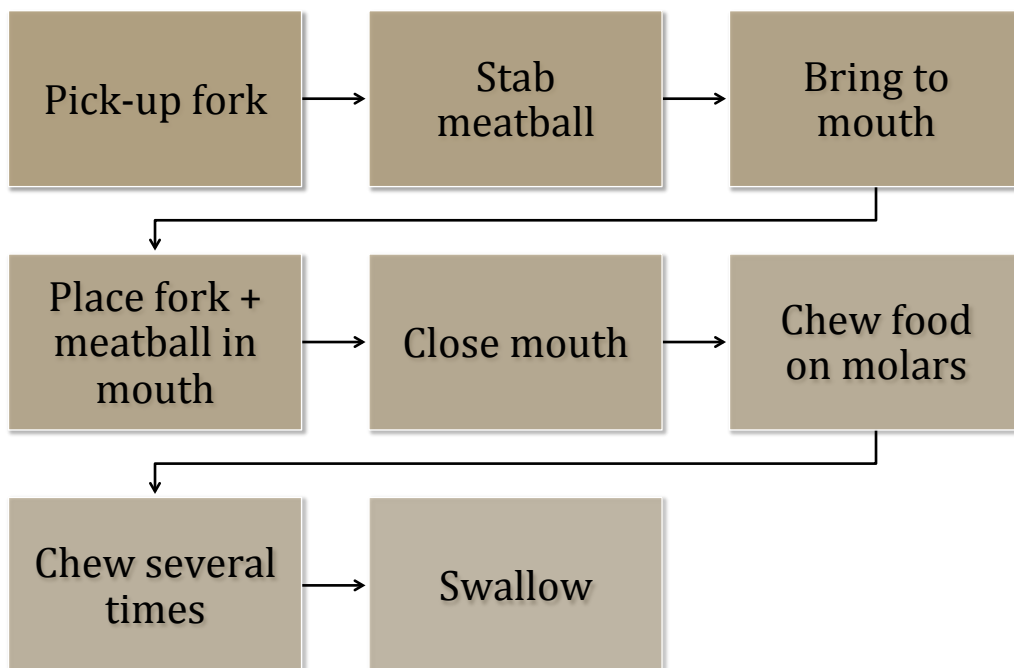
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↓	10:30 am	Greek yogurt, Water	2 bites 10oz	N	↓
	12:00 pm	Sandwich, Chips, Water	2 bites 1.5oz (all) 10oz	N	
	2:30 pm	Apple, Choc. Milk	1 bite 8oz	N	

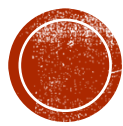


EATING INCLUDES MANY STEPS

MAKE IT MANAGEABLE

- Eating consists of many different steps
 - Using utensils
 - Cups
 - Straws
 - Plates

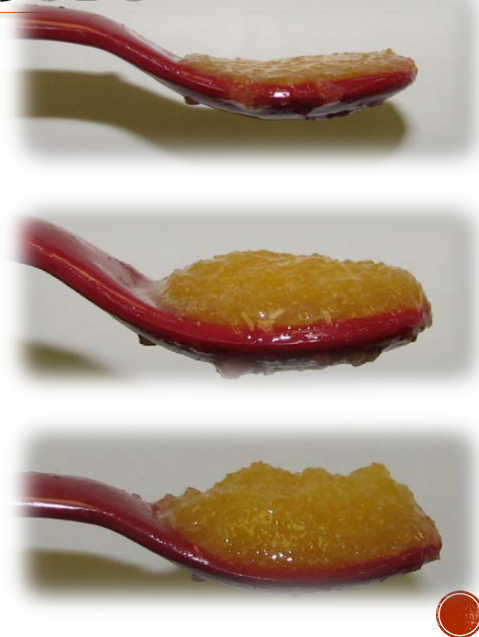




INTRODUCING NEW FOODS & LIQUIDS

INTRODUCING NEW FOODS

- Bite Sizes
- Nutritional Needs



NUTRITIONAL NEEDS

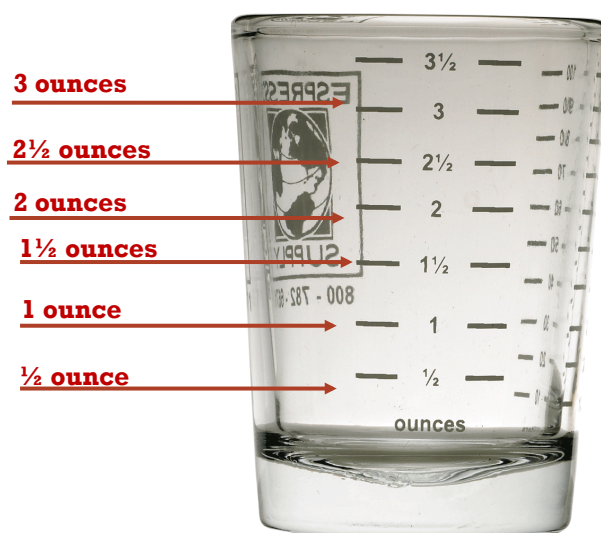
	Ages 2-3	Ages 4-8	Ages 9-13	Ages 14-18
Calories	1,000 – 1,400	1,200 – 2,000	1,400 – 2,600	1,800 – 3,200
Protein	2-4oz	3-5.5 oz	4-6.5oz	5-7oz
Fruits	1-1.5 cups	1-2 cups	1.5-2 cups	1.5-2.5 cups
Vegetables	1-1.5 cups	1.5-2.5 cups	1.5-3.5 cups	2.5-4 cups
Grains	3-5oz	4-6 ounces	5-9oz	6-10oz
Dairy	2 cups	2.5 cups	3 cups	3 cups

(Mayo Clinic, 2016)



INTRODUCING NEW LIQUIDS

- Ounces in a cup to drink
- Nutritional needs



CALCIUM & JUICE GUIDELINES

- **Calcium Guidelines**

- Toddlers (ages 1 to 3 years) – 700 milligrams daily
- Kids (ages 4 to 8 years) – 1,000 milligrams daily
- Older Kids (ages 9 to 18 years) – 1,300 milligrams daily

- **Milk Intake**

- Ages 2 to 3 years: 2 cups per day
- Ages 4 to 8: 2.5 cups per day
- Ages 9 and older: 3 cups per day

- **Juice Intake**

- 6-12 months old: no more than 2-4 ounces per day
- 1-6 years old: 4-6 ounces per day
- 7-18 years old: 8-12 ounces per day

(Kidshealth.org, 2016)



DIFFERENT FOOD TEXTURES FOR LEARNERS WITH TEXTURE DIFFICULTIES

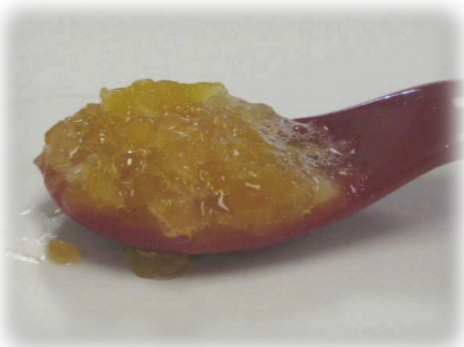
EASIEST TEXTURE – BABY FOOD/PUREE



- Completely smooth
- Examples:
 - Pudding
 - Applesauce
 - Watered down grits
 - Smooth mashed potatoes



SECOND TEXTURE – WET GROUND



- Small lumps
- Watery
- Examples:
 - Watery Oatmeal
 - Slightly chunky mashed potatoes
 - Minced fruit



THIRD TEXTURE – GROUND



- Lumps
- Thicker in consistency
- Examples:
 - Slightly minced fruits and veggies
 - Ground beef

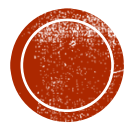


FOURTH TEXTURE – CHOPPED



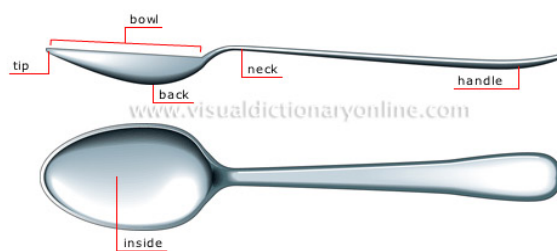
- Usually prepared with a knife
- Examples:
 - Chopped celery
 - Jello cut into small pieces
 - Crumbled goat cheese



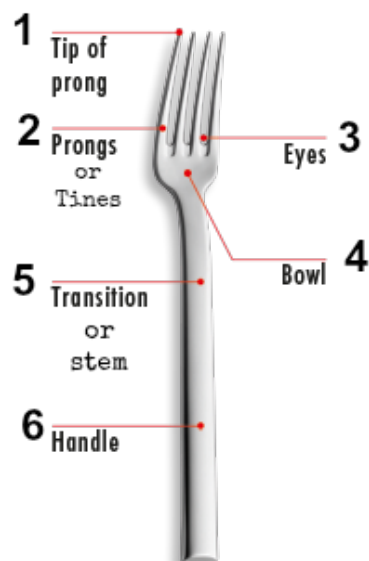


FEEDING TOOLS MATTER!

UTENSILS



UTENSILS



UTENSIL GRIPS

- Great for teaching learner how to grip
- Allows the utensil to stay positioned in hand



BOWLS & PLATES



CUPS





MAKE IT STICK

START SMALL

- Pick foods similar in some way to the food that your learner is currently willing to eat
- Reinforce immediately for taking one bite of food
- Demand fading: increase the bite requirement to get the reinforcer over time



EARNING TOYS

Before



Then...



After



+



GO BACK TO THE DRAWING BOARD

- New reinforcer
- Reconsider how much
- Reconsider texture or amount of food
- Lower bite requirement

- Wait it out
 - Keep the bite present

- Try a different approach



BLENDING FOODS

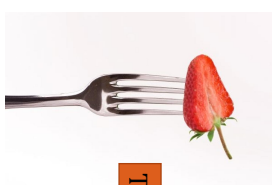
- Slowly introduce new foods with foods he/she is already eating
- Important to keep in mind taste of blended foods

	Greek Yogurt	Blueberries
Day 1-3	100%	0%
Day 3-6	90%	10%
Day 6-9	80%	20%
Day 9-12	70%	30%



PRESENT NEW WITH OLD

- New food item is presented first, immediately followed by old item



Then...



Then...



SLOWLY INCREASE REQUIREMENTS

- Number of bites increases to get the ice cream



Day 6



RULES OF THUMB

IF YOU LIKE IT...

- Tell your learner!



WHY INTERVENTIONS FAIL

- Reinforcers are NOT being used to increase desirable behaviors
- Conduct a preference assessment
 - Make a list of favorite things:
 - Toys
 - Food
 - Liquids
- Reserve the most preferred item for feeding sessions
- If you get stuck problem solving, contact a BCBA



KEEP YOUR COOL

- Ignore unwanted behaviors
- It may get messy
- Progress takes time
- Do NOT:
 - Beg
 - Coax
 - Plead
- Things may get worse before they get better
- The learner is probably doing something they don't like
 - Problems may occur:
 - Tantrums
 - Crying
 - Throwing food/utensils
 - Hitting
 - Vomiting



SET GOALS

- What are your goals?
 - Self-feeding?
 - Using a cup instead of a bottle?
 - Decreasing food throwing?
- Where are you hoping to end?
 - Increase food variety?
 - Increase texture?
 - Increase different liquids?

