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# Crumbs as a Tool in Pediatric Feeding Transitions

Marsha Dunn Klein OTR/L, MEd, FAOTA



continued

### **Disclosures**

- Financial Disclosures: Paid presenter
- Financial Disclosure: Mealtime Notions, royalties for books and DuoSpoons
- Non-financial disclosures: Advisory Council Feeding Matters, and Board Member NOURISH.



### **Learning Outcomes**

- As a result of this course, learners will be able to:
- 1. Define the use of *continuum* in creating treatment strategies in feeding therapy
- 2. List four benefits of the use of crumbs in feeding therapy
- 3. Describe how to use crumbs in sensory feeding transitions
- 4. Describe how to use crumbs in motor feeding challenges.

continued

# Common Pediatric Feeding Challenges

- Skill basics of sucking swallowing and chewing
- Developmental transitions
- Texture transitions
- Sensory sensitivity
- Motor challenges
- Worry
- Crumbs can help



# Child success and parent success

- Child success
- Parent success
- Therapist success
- We want to celebrate the child and have them celebrate the mealtime!

### continued

### Positive tilt

 A Positive Tilt, as described in the Get Permission Approach to Pediatric Feeding Challenges, is a coming together of parent and child whether physically and emotionally that says "Yes, I want the food".









# Negative tilt

 A Negative Tilt, as described in the Get Permission Approach to Pediatric Feeding Challenges, is a leaning away of child from the parent physically and emotionally says "Absolutely NOT!"



#### continued

### Get Permission Approach

- Adult offers and the child gives permission or not.
- Look at influences on permission carefully
- When no permission, we must adapt
- If the child is resisting, we are pressuring or asking too big an ask.
- What do WE need to do to offer so the child is able to give permission?



### Continuum of tasks

- Continuum: Continuum is a continuous sequence in which the adjacent elements are not perceptibly different from each other, although the extremes are quite distinct.(Google Dictionary)
- Here \_\_\_\_\_\_\_ There
- (https://www.google.com/search?q=definition+continuum&oq=definition+continuum&aqs=chrome..69i57j0l5.4755j1j7&sourceid=chrome&ie=UTF-8)

continued

### Grade the ASK

- Safety ask
- Developmental ask
- Sensory ask
- Motor ask
- Emotional ask
- Independence ask



### The Art of Crumbing

- The prescriptive use of crumbs to help children be successful in new food textures, flavors and chewing challenges.
- Support transitions in the sensory properties of the foods and the motor challenges



#### continued

### **Crumb Benefits**

- Crumbs help the child build enjoyment while developing the confidence to work towards developmental texture acceptance and chewing.
- Sensory bridge
- Motor bridge
- Bridge to a new food group
- Reduce worry



### Grade the Crumb (Sensory Ask)

Here \_\_\_\_\_\_\_ There

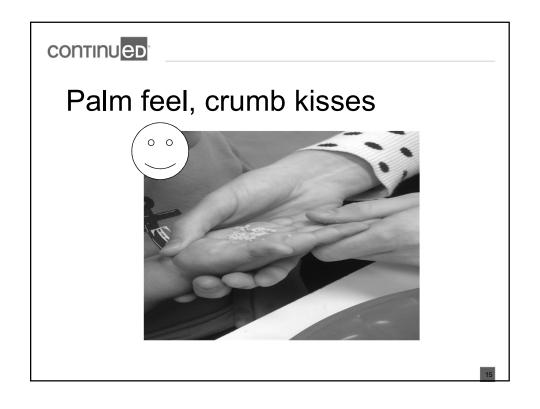
- Grade the sound
- Grade the visual
- Grade the flavor
- Grade the texture...a texture bridge
- Grade the amount
- Grade the dry to wet and wet to dry
- Grade the "meltability"
- Grade the lasting effect (feel and flavor)

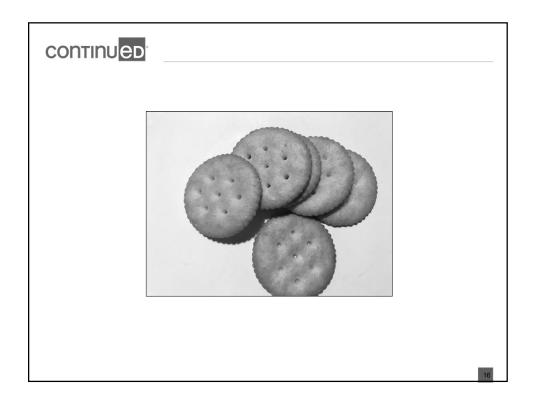
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# Sensory Properties-Crumb Rehearsals

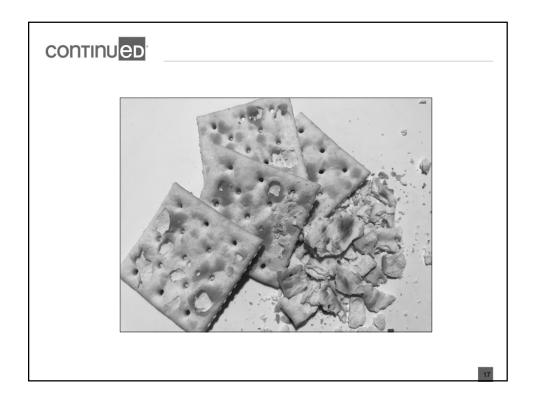
- Reduce the worry with rehearsals
- Vision-Look from a distance
- Sound-Hear it from a distance
- Smell-Taste from a distance
- Texture Touch-Experience the texture in the hand as a preview of the texture in the mouth















# A closer look at textures and their sensory differences

- Textures are a roadblock for many children in developmental eating transitions
- Think of food texture words
- What are the food words we use talking about children's food?

### continued

# A closer look at textures and their sensory differences

- What are the food words we use talking about children's food?
- Puree?



# A closer look at textures and their sensory differences

- What are the food words we use talking about children's food?
- Puree?
- Mashed?

#### continued

# A closer look at textures and their sensory differences

- What are the food words we use talking about children's food?
- Puree?
- Mashed?
- Ground?



# A closer look at textures and their sensory differences

- What are the food words we use talking about children's food?
- Puree?
- Mashed?
- Ground?
- Chopped?

### continued

# A closer look at textures and their sensory differences

- What are the food words we use talking about children's food?
- Puree?
- Mashed?
- Ground?
- Chopped?
- Solid...





### How about these words???

- Think about the texture differences, subtlties? a continuum?
- Smooth, coarse, dry, moist, wet, solid, slippery, grainy, rubbery, viscous, thin thick, chewy, scattery, crunchy, soft, runny, crispy, hard, juicy, springy, lumpy, chunky, stiff, rough, gritty, hot/cold, lukewarm, sticky, crumbly, light, airy, meltable...



### How about these words???

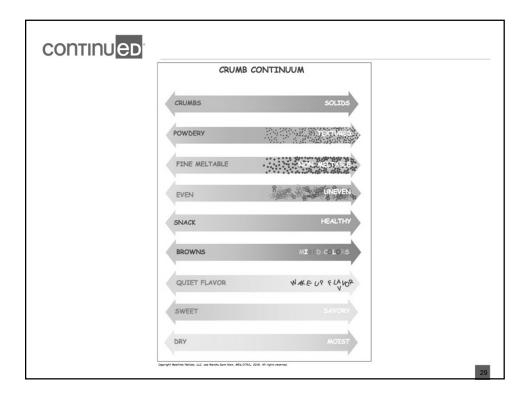
- Smooth, coarse, dry, moist, wet, solid, slippery, grainy, rubbery, viscous, thin, thick, chewy, scattery, crunchy, soft, runny, crispy, hard, juicy, springy, lumpy, chunky, stiff, rough, gritty, hot/cold, lukewarm, sticky, crumbly, light, airy, meltable...
- We need creativity in making careful changes in the sensory properties of foods.
- Crumbs can help you get there.

continued

### Sensory properties of crumbs

- Crumbs can be made and added in foods and on foods to systematically and carefully change the texture
- Can change texture
- Can change flavor
- Can change the look





# Dry to moist continuum

- We generally think of crumbs as dry but...
- A continuum of crumbs towards moist
- What about corn muffins crumbed?
- What about waffles crumbed?
- Breakfast bars crumb the outer cake?
- Banana bread ③ (Maybe too gluey?)
- Cheese crumbs















### OR Wet to dry continuum

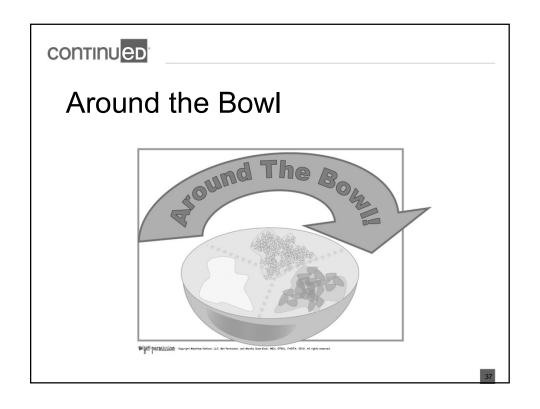
- For children who like purees and are not yet comfortable with dry, we can help them add crumbs on the food until there are more and more.
- They could be on the spoon or under
- They could be on a spoonful of puree and gradually less and less puree and more and more crumbs
- Until they like crumbs on the spoon without the puree.

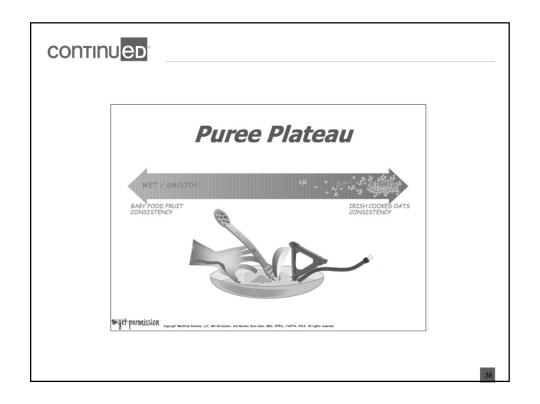
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# Crumbs as a texture disguise

- Dealing with slippery
- Slippery foods such as canned peaches, apricots and bananas can be coated in a familiar crumb to disguise the slipper texture.
- Breading (batter) can be a bridge to ground meats (nuggets, breaded chicken, veal, meatballs with crumb coating, veggies fried in batter



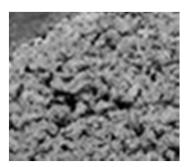






# Anything can be a crumb?

- Hamburger "crumbs"
- Carrots prepared in a zester
- Raspberry "crumbs"
- Apple "crumbs" in the fine grater



continued

### Rehearsals as a therapy tool

- A rehearsal is a practice, and introduction to the activity so the child KNOWS what is coming.
- Trying new can be scary, worrisome
- Watch try others
- Take turns
- Have choices
- Make the crumbs



### Rehearsals from a distance

- Sight- Watch others eat or interact with them
- Sounds- Hear others crunch it
- Smell it- Smell is taste from a distance
- Feel it- in the hand is a rehearsal or preview of the texture to imagine the mouthfeel

continued

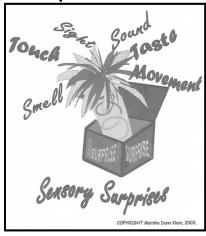
# Making Crumbs

- Rolling Pin
- Stomp
- Smash with spoon, play hammer
- Food processor
- Coffee bean grinder
- Grater
- Zester





Sensory surprises



continued

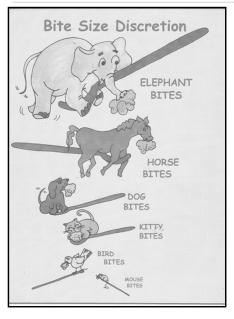
### Grade the Motor Ask

- Grade the size
- Grade the meltability
- Grade the placement (in the food, on the spoon, under the spoon, on the side of the spoon)
- Grade the crunch and chew







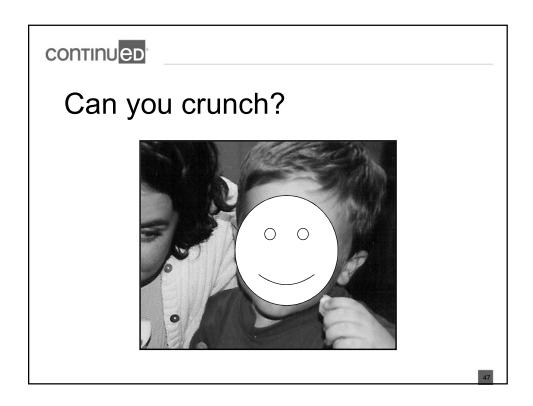


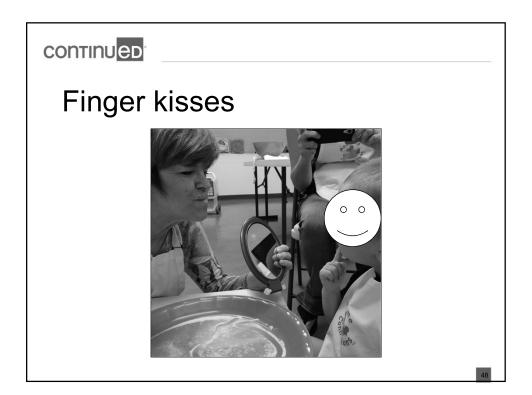
### Help asymmetry

- Children need to be able to respond to food out of the midline
- Children need to get comfortable with asymmetrical interaction with foods
- They (or we) can place foods lateral, upper, lower, as needed to inspire the motor response.











# Finger placement



continued

# A pinch of crumbs





"Can you take a mousebite?"



continued

### What about scatter?

- Too much too soon can be SCATTER
- Can happen, but we can control the experience
- Build skill with the ASK



### **Crumb Stretches**

- One crumb to another
- Start with a familiar crumb
- Stretch to a new crumb
- Waffle crumbs to waffle
- Nutterbutter<sup>™</sup> cookie peanut butter
- Oreo ™cookie to coco cereals
- Multicolored cereal crumbs to freeze dried fruit or veggie crumbs

continued

### **Crumbs-Preacademics**





# **Dips and Dippers**

- Dip a familiar dipper (cracker, apple slice etc) in a new dip
- Dip a new dipper in a familiar dip
- Dip the dipper and dip into crumbs
  - Adds utensil experience
  - Adds calories
  - Adds texture
  - Adds novelty

continued

### Crumb Snow and more





### **Articles**

- Coulthard, H. and Thakker, D. (2015). Enjoyment of tactile play is associated with lower food neophobia with preschoolers. *Journal of the Academy of Nutrtionand Dietetics* 115 (7), 1134-1136.
- Coulthard, H. and Seaky A. (2017). Play with your food! sensory play associated with tasting fruits and vegetables in preschool. *Appetite* 113 (2017),84-90.
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  Association between tactile over-responsivity and vegetable consumption early in the introduction of solids food and its variation with age. *Maternal Child Nutrition* Oct: 12 (4) 848-59.

#### continued

### **Books**

- Sheperd, G. (2012). Neurogastronomy: How the brain creates flavor and why it matters. New York, NY: Columbia University Press.
- Mourtisen, O.G. and Stybaek, K. (2017). Mouthfeel: how texture makes taste. New York, NY: Columbia University Press.
- Stuckey, B. (2012). Taste what your missing: A
  Passionate Eater's Guide to Why Good Food Tastes
  Good. New York, NY: Simon and Schuster.



# Questions?

- marshadunnklein@gmail.com
- Check out the Grasshopper Story
  - www.mealtimenotions.com
    - Thanks!Thanks!Thanks



