



## Introduction

- Mealtimes can be an opportunity for gender socialization.
- Moms and dads can model different types of eating behaviors or concerns (Scaglioni) et al., 2008; Tibbs et al., 2001)
- Parents feed more higher calorie meals and provide fewer vegetables to boys than to girls (Bouhal et al., 2015; Song et al., 2021)
- Previous research has focused on what adolescents and adults perceive as stereotypical eating behaviors and food selection for men and women (Jensen & Holm, 1998; Vartanian et al., 2007)
- Men are expected to eat more meat and more portions of food overall (Vartanian et al., 2007)
- Women are expected to eat less food overall, as well as more fruits and vegetables (Mori et al., 1987)
- Young boys may have similar gender stereotypes around food as adult men. Specifically, that meat is for boys, salad is for girls, and boys should get to eat more food than girls (Drummond & Drummond, 2015)
- There has been little research on what eating behaviors adults consider appropriate for boys and girls, which might impact parental feeding practices

# **The Current Study**

In this study, we will explore what kinds of meals adults make for boys and girls, as well as their motivations behind the types of food and portion sizes they choose when making these meals.

- H1: We hypothesize that meals created for boys would contain more meat and less produce than meals for girls
- H2: We expect that meals created for boys would contain larger portion sizes than meals for girls
- H3: The main motivations for choosing foods are expected to focus on health, nutrition, and convenience
- Motivations for girls will be more focused on health & nutrition.

# Methods

### **Participants**

58 participants were recruited from The University of Texas at Dallas

- 76% female, 24% male
- 20% Latine, 13% Black, 33% Asian, 12% Middle Eastern, 25% White
- 5% of participants had children
- Participant BMI
- Mean: 26.4
- Range: 18.8 50.04

### Procedure

- Participants completed surveys online through qualtrics
- Participants were randomly assigned to create a meal for a 3-year old boy or girl • Then were asked open-ended and multiple-choice questions about their motivations
- behind the foods selected
- This procedure was repeated, but instead creating a meal for a 10-year old boy or girl

### Measures

**Meal Creation Task** (revised from Holub & Musher-Eizenman, 2010)

- Participants select 4 foods and 1 drink from a list of 27 foods and 4 drinks (Fig.1) Based on pictures of a portion size of each food, participants were asked how much of each food they would serve the child (5-point scale)
- Participants could serve more than, the same amount, 3/4, 1/2, or 1/4 of the portion of food

### **Motivations**

- Participants were then asked open ended questions on how they decided what types of food and how much of each food to serve
- Participants completed the modified food choice questionnaire (FCQ; Russell et al., 2014) to evaluate their motivations behind the types of food chosen for meals
- 'It is very/moderately/slightly/not at all important to me that the food I choose for my child for a typical lunch is ... (see fig. 4 for subscales)

# **Family Mealtimes and Gender Socialization** Giselle Reyes and Shayla C. Holub, School of Behavioral and Brain Sciences

# Results

There were no clear gender differences in the				
types of food selected for children				
Food	3 year old girl	10 year old girl	3 year old boy	10 year old boy
Scrambled Eggs	8	3	6	3
Hot Dog	1	1	4	0
Turkey Sandwich	8	19	12	21
Roasted Chicken	5	4	4	6
Fish Sticks	2	3	4	2
Chicken Nuggets	6	1	9	1
Peanut Butter & Jelly Sandwich	7	6	4	3
Burrito	2	2	0	2
Hamburger	0	0	0	4
Cheese Pizza	2	1	2	3
Apple	5	12	6	11
Grapes	7	5	12	8
Mango	2	4	2	1
Strawberries	16	8	10	9
Green Beans	3	4	1	7
Broccoli	5	7	9	8
Baby Carrots	7	12	21	15
Tomatoes	1	2	0	0
Wheat Bread	0	0	2	1
Fries	3	0	2	4
Potato Chips	3	10	2	8
Black Beans	1	1	2	1
Strawberry Yogurt	5	3	7	4
Chocolate Cake	0	2	0	0
Cookies	4	5	3	3
Donuts	0	0	0	0
Apple Pie	1	1	1	0
Milk	7	4	8	4
Water	10	16	13	14
Juice	7	7	10	10
Soda	0	0	0	0

**Food Type Selection** 

Fig. 1: Frequency of each food selected in meal creation task for 3- and 10-year old girls and boys

Fig. 3: Frequency of motivation selection in open ended questions on meal food choice

# **Motivations: Close Ended**

There were no differences in motivations for feeding the 10 year old children based on child gender, but there were differences for the 3 year old children related to child gender



Fig. 4: Mean frequency of motivations selected by participants after creating meals

## **Food Portion Selection**

There were no differences in the amount of food served to children based on child gender 3-year old children: t(57) = 0.84, p = 0.4110-year old children: t(57) = 0.13, p = 0.90



Fig. 2: Average portion sizes served to 3- and 10-year old boys and girls in meal creation task

# **Motivations: Open Ended**

Exploratory analysis of open-ended questions about motivations in selecting foods revealed that health & nutrition and convenience were the most important factors in selecting foods



### Discussion

- meal creation task
- gender (Song et al., 2021)
- with mostly non-parents.
- during the meal creation task

- nutrition & health.
- balanced meals, and selecting healthy foods.
- convenience than for girls
  - (Russell et al., 2014).

There were mixed findings in these results, where the open-ended questions elicited responses more focused more on health and nutrition and the close-ended questions more on the importance of convenience for feeding younger children, specifically boys

### **Limitations & Future Directions**

- population of parents
- which may have affected the results
- select in the feeding task
  - selections.
- children are fed

Bryant-Waugh, R., & Nicholls, D. (2005). Maternal core beliefs and children's feeding problems. International Journal of Eating ride, C. M., Ward, D. S., & Persky, S. (2015). Drivers of overweight mothers' food choice behaviors depend on child gender. Appetite, 84, 154–160. Brown, K. A., Ogden, J., Vögele, C., & Gibson, E. L. (2008). The role of parental control practices in explaining children's diet and BMI. Appetite, 50(2-3), 252-259.

https://doi.org/10.1016/j.appet.2007.07.010 Chapman, L., Cartwright-Hatton, S., Thomson, A., & Lester, K. J. (2021). Parental eating disorders: A systematic review of parenting attitudes, behaviours, and parentchild interactions. Clinical Psychology Review, 88, 102031. https://doi.org/10.1016/j.cpr.2021.102031 Drummond, M., & Drummond, C. (2015). My dad's a 'barbie' man and My Mum's the cooking girl. Journal of Child Health Care, 19(3), 279–292.

https://doi.org/10.1177/1367493513508846 Holub, S. C., & Musher-Eizenman, D. R. (2010). Examining preschoolers' nutrition knowledge using a meal creation and food group classification task: Age and gender differences. Early Child Development and Care, 180, 787-798. Mori, D. A., Chaiken, S., & Pliner, P. (1987). "Eating lightly" and the self-presentation of femininity. Journal of Personality and Social Psychology, 53(4), 693–702.

https://doi.org/10.1037/0022-3514.53.4.693 O'Doherty Jensen, K., & Holm, L. (1999). Preferences, quantities and concerns: Socio-cultural perspectives on the gendered consumption of foods. *European Journal* of Clinical Nutrition, 53(5), 351-359. https://doi.org/10.1038/sj.ejcn.1600767 Russell, C. G., Worsley, A., & Liem, D. G. (2014). Parents' food choice motives and their associations with Children's Food Preferences. Public Health Nutrition, 18(6), 1018–1027. https://doi.org/10.1017/s1368980014001128 Scaglioni, S., Salvioni, M., & Galimberti, C. (2008). Influence of parental attitudes in the development of children eating behaviour. British Journal of Nutrition, 99(S1). https://doi.org/10.1017/s0007114508892471 Song, S., Ishdori, A., & Dave, J. M. (2021). Gender differences in nutritional quality and consumption of lunches brought from home to school. International Journal of

Environmental Research and Public Health, 18(24), 13168. https://doi.org/10.3390/ijerph182413168 Tibbs, T., Haire-Joshu, D., Schechtman, K. B., Brownson, R. C., Nanney, M. S., Houston, C., & Auslander, W. (2001). The relationship between parental modeling eating patterns, and dietary intake among African-American parents. Journal of the American Dietetic Association, 101(5), 535–541. https://doi.org/10.1016/s0002-8223(01)00134-1

Vartanian, L. R., Herman, C. P., & Polivy, J. (2007). Consumption stereotypes and impression management: How you are what you eat. *Appetite*, 48(3), 265–277. https://doi.org/10.1016/j.appet.2006.10.008



I am grateful for my research mentor Dr Shayla Holub for providing her knowledge on the subject and her guidance throughout the duration of the research project. I would also like to thank the REU faculty for the opportunities provided to me and my fellow student colleagues, who have supported my journey throughout the program.



## Conclusions

Hypothesis 1: There were no gender differences in the types of foods selected for the

This is inconsistent with current literature that suggests adults believe that specific foods are more appropriate for different genders (Vartanian et al., 2007)

• Additionally, parents have been shown to feed their children differently based on

This could be due to limited sample size or this protocol that was completed on-line

Hypothesis 2: There were no gender differences in the overall amount of food selected

This is also different from current studies suggesting that there are differences in how much food parents feed their children (Bouhal et al., 2015)

Future research should examine whether differences are found while observing meal creation tasks with real food with real children present.

Hypothesis 3: For open-ended questions, the main motivation by participants was

Many participants cited their reasonings based on adequate serving sizes, creating

For 3-year olds, close-ended questions on motivations boys were more focused on

• This is consistent in following up with previous findings, which suggest that children's wants are especially important in selecting food for children's meals

This study recruited from college students, which may not be generalizable to a

• Furthermore, the study did not control for participants' experiences with children,

• Future research should focus on surveying parents, especially with young children Participant BMI was not controlled for, which may have also affected how much they

• Parents with overweight have been shown to express conflict between their own and their child's weight status during meals (Blissett et al., 2021), as have parents with eating disorders (Chapman et al., 2021), so these qualities impact child food

Research can also be done on examining how the gender of the parent impacts how

### References

# Acknowledgements