

Original Article

The Association Between Parental Behavior Patterns and the Dietary Intake of Preschool Children in Tehran Kindergartens

Maryam Pazuki¹, Majid Hajifaraji*², Morvarid Nikoosokhan¹, Anahita Houshyarrad³, Taghi Pourebrahim⁴, Bahram Rashidkhani⁵, Abolfazl Payandeh⁶

- 1. Faculty of Nutrition Sciences and Food Technology, International Branch of Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 2. Department of Nutrition and Food Policy Research, National Nutrition and Food Technology Research Institute, Faculty of Nutrition Sciences and Food Technology, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 3. Department of Nutrition Research, National Nutrition and Food Technology Research Institute, Faculty of Nutrition Sciences and Food Technology, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 4. Department of Counseling and Psychology Sciences, Shahid Beheshti University, Tehran, Iran
- 5.Department of Community Nutrition, National Nutrition and Food Technology Research Institute, Faculty of Nutrition Sciences and Food Technology, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 6. Department of Biostatistics, Faculty of Paramedical Sciences, Shahid Beheshti University of Medical Sciences, Tehran, Iran

Received: January 2014 Accepted: May 2014

ABSTRACT

Background and Objectives: This study was designed to investigate the association between parental behavior and the dietary intake of Tehranian preschool children aged 2-6 years.

Materials and Methods: In a cross-sectional study conducted on 310 children aged 2-6 years from the kindergartens of 22 districts of Tehran, a qualitative validated 85-item food frequency questionnaire was completed by interviewing with their parents. Also the effect of parental behavior on the children's dietary intake was assessed using a validated comprehensive feeding practices questionnaire (CFPQ).

Results: 47 and 53% of children were girls and boys, respectively. Among the parental behavior patterns, encouraging children to eat healthy foods, using food rewards, teaching and talking with children about the value of foods, encouraging the children to participate in food purchasing and preparation, making available the healthy foods, parental controlling behavior, child's control, restricted behaviors because of having weight loss diet, and role modeling were significantly associated with the dietary intake of food groups (P<0.05).

Conclusions: Any effort to promote children's dietary intake needs considering the role of parents in the development of feeding patterns, and interest in children to consume healthy foods.

Keywords: Children, Dietary intake, Parental behavior patterns, Kindergarten

Introduction

The first 2-3 years of life is the most crucial period for the normal physical and mental development of every child.

Children in the developing countries constitute one-half to two-thirds of the whole population. Nutrition-related health problems during the first 3 years of life lead to many short and long-term consequences, such as cardiovascular disease that limit human potential within the society. Therefore, improving infants' and young children's nutrition should be a priority, and must be seen as an integral part of social and economic development (1). Results of several studies show that the diet of children in most cases is not based on the recommendations for this age group (1-3). Problems of

dietary intake in this age group such as low intake of water, fruits and vegetables, high intake of sweetened beverages, and high calorie, high fat, and low nutrient density snacks may bring about various short- and long-term health consequences. Nowadays, 15-35% of toddlers and children aged 2-6 years in the world have nutritional disorders including disability and weakness in eating enough food, religious or cultural inhibitions of having or not having special foods, inappropriate behavior at mealtime, and unhealthy food habits. These problems are often temporary; however, they may become a chronic and disruptive issue in some children, these disorders are associated with delayed and retarded physical and mental growth, and are underlying factors for several chronic

diseases (2). In addition, overweight and obesity is a significant threat, and its prevalence in the children of developing countries has been increased two to three times in the last decade (3). It worth mentioning that 3% of children <3 years are obese in the world (4). Destructive consequences of childhood obesity are not only related to physical symptoms and some diseases but also to the overall health, as well as social and mental issues. The first five years of life is the period of rapid growth, physical change, and forming eating behaviors in children, which is the base of their future dietary intake and patterns(5). The main factors that may effect the eating behaviors and the amount of food intake of children include demographic, economic, environmental, social and family factors(6). During the early years of childhood, children learn "what, when, and how much to eat", based on differences on the eating practices, attitudes and cultural beliefs (5). Family environment is one of the main factors, which its rules and priorities determine the type and amount of food availability and physical activity to a large extent(4). Furthermore, parents' applied methods and strategies to feed children (using restrictive, obligatory, encouraging, punishing, or suggesting behaviors), their choices for type and amount of food accessible to children and their own behavior during the mealtime (role modeling for children) can underlie healthy nutrition for children (7). In some cases, strategies applied by parents may have negative results on the dietary intake of children (8).

Considering the priority of this issue, several studies in the world have evaluated the association between parental behavior patterns and dietary intake of children. However, in Iran, studies regarding this issue, especially among the toddlers, are very limited. Therefore, the current study aimed to assess the association between the parental behavior patterns and the dietary intake of preschool children aged 2-6 years in Tehran, Iran.

Materials and Methods

Study design and subjects: This cross-sectional descriptive analytical study was conducted on 310 children aged 2-6 years, from the preschools of 22 districts of Tehran, Iran. The children were selected using proportional multistage sampling method. In order to have enough number of children in each district, K coefficient was calculated as the number of children going to kindergarten in each district divided by the total number of children. Then two kindergartens were chosen from each district (and one kindergarten from districts number 17 and 19 because of their low weight population). The children were selected randomly based on the population weight of the two kindergartens.

Parental behavior patterns assessment: To assess the parental behavior patterns, a validated 36-item questionnaire, namely Comprehensive Feeding Practices

Questionnaire (CFPQ), was used (9). The questionnaire included questions on parental controlling, restrictive, obligatory, encouraging, and role modeling behaviors for children, using food rewards, regulating the child's emotional feeling about food, using teaching methods, participation of children in food purchasing and preparation, and making available healthy and unhealthy food items. The responses were "never", "rarely", "sometimes", "often", and "always". All questionnaires were completed by the mothers.

Dietary intake assessment: Qualitative pattern of dietary intake was assessed by using a validated 85-item food frequency questionnaire (10-13). Usual frequency consumption of each food item on a daily, weekly, and monthly basis was determined by interviewing the mothers. Food items that were markedas never eaten were reported too.

Statistical analysis: The Statistical Package for Social Science (SPSS Inc, Chicago TL. Version 18) was used for statistical analysis. The Shapiro-Wilk test was used to test the normality of quantitative variables. Mean difference of the frequency of food groups' intake between the parental behavior patterns was tested with the Student's t-test and the Mann–Whitney's test for normal and non-normal distributed variables, respectively. To explore the association between the categorical variables, $\chi 2$ and Fisher's exact test were used. P-values < 0.05 were considered statistically significant. Multiple Linear Regression Analysis (MLRA) was used for determining the frequency of daily food groups eating according to the parental behavior patterns.

Results

Among the 310 children, 39% and 61% were in the 2-3 years and 4-6 years age groups, respectively. These two age groups were compared regarding each variable of parental behavior patterns. The results indicated a significant association between teaching behavior and talking to children about the nutritional value of foods in both groups. Teaching strategy and talking to children about the value of food were more prevalent (70%) in the 4-6 years age group. There was no significant difference among the other parental behaviors between the two age groups.

Mean value of the food group's frequency of daily intake in two age groups is shown in Table 1. Mean frequency of intake of most of the food groups was lower in the 4-6 years age group than in the 2-3 years age group; however, the mean frequency of consumption of fast foods and deep fried foods was higher in the 4-6 years age group in comparison to the 2-3 years age group. Processed meat intake was significantly higher in children aged 4-6 years than those aged 2-3 years, and the intake of nutritious snacks and dairy products was higher in children aged 2-3 years.

Table 1. Mean and SD of the frequency of the food groups' daily intake in children aged 2-6 years in Tehran

		Byears	4-6years			
	(n=121)		(n=189)		Total percen	
	Mean	SD	Mean	SD	of consumers	
Bread and grains	2.65	0.95	2.71	0.84	100	
Bread	1.28	0.71	0.140	0.7	99	
Rice	1.14	0.60	1.10	0.61	99	
Pasta and dough compounds	0.24	0.24	0.22	0.31	97.5	
Total meats	1.90	0.7	0.85	0.77	100	
Red meat	0.36	0.24	0.38	0.43	92	
Minced meat	0.37	0.22	0.33	0.20	96	
Fish and tuna	0.27	0.36	0.34	0.35	96	
Poultry	0.34	0.18	0.32	0.23	96.5	
Kebab and chicken kebab	0.17	0.16	0.15	0.11	97	
Eggs	0.48	0.53	0.40	0.28	98	
Processed meat	0.06^{a}	0.13	0.08	0.17	87	
Total fruits	5.10	2.99	4.69	3.27	100	
Vitamin C sources (strawberries, prunes, orange, tangerine)	1.19	1.02	1.13	1.01	95	
Vitamin A sources (apricot, cantaloupe, peaches, nectarine)	1.45	1.36	1.25	1.28	92	
Other fruits (apple, banana, grapes, cherry, watermelon)	2.51	1.35	2.42	1.68	100	
Homemade fruit juice	0.39	0.48	0.36	0.81	85	
Vegetables	3.31	1.83	3.29	1.83	100	
Cooked vegetables (squash, eggplant, green vegetables, potato)	2.71	1.73	2.72	1.66	99	
Uncooked vegetables (cucumber, tomato, salad, fresh herbs, lettuce, onion, carrots)	0.60	0.37	0.57	0.40	99	
Snacks	2.16	1.48	1.90	1.26	98	
Sweetened and fatty snacks (chips, puff, chocolate)	0.79	0.94	0.70	0.73	95	
Biscuits (biscuits, cake, pancake)	1.36	0.84	1.20	0.75	98	
				2.64	98 99	
Nutritious snacks (nuts, dried fruit)	3.44	2.87	2.82			
Ice cream	0.42	0.50	0.45	0.45	94	
Simple sugars	1.36	1.00	1.28	0.88	97	
Sugar	0.75	0.75	0.74	0.71	83	
Candy, jam, and honey	0.92	3.72	0.54	0.53	91	
Butter and fat (cream, butter, olive oil)	0.84	0.89	0.84	0.73	94	
Dairy	4.51	1.80	4.03	1.62	100	
Milk or flavored milk	2.29 ^a	1.27	1.91	1.06	99	
Yogurt	1.1 ^a	0.70	0.95	0.68	96	
Cheese	0.71^{a}	0.55	0.70	0.47	90	
Cooked food	0.99	0.76	1.03	0.61	100	
Fast foods	0.83	0.72	0.85	0.59	100	
Deep fried foods	0.35	0.24	0.40	0.33	99	
Legumes	0.44	0.27	0.43	0.31	97	
Beverages	0.58	0.59	0.61	0.57	100	
Synthetic beverages and carbonated drinks	0.60	1.06	0.51	0.48	95	
Soft drinks	0.23	0.53	0.20	0.24	82	
Water	4.88	2.46	4.71	2.17	100	

 $^{^{\}rm a}$ Different from the 4-6 years' age group, Mann-Whitney's test P < 0.05

Among the parental behavior patterns, child's emotion regulation using foods and pressuring child did not show any significant relationship with the frequency of food groups' type or amount of consumption. Food rewards had significant associations with the consumption of fatty and sweetened snacks, puffs and chips, and chocolate. There was also a significant association between the teaching behavior and talking to children about the nutritional value of foods, and the total frequency intake of meat and egg, meat, fruits, vitamin A sources of fruits, vitamin C sources of fruits, and soft drinks. Modeling for children had associations with the mean frequency intake of processed meat, legumes, snacks, nutritious snacks, nuts, dried fruits, beverages, and synthetic beverages. The findings indicated significant associations between participation of children in the food purchase, and the mean frequency intake of nutritious snacks, dried fruits, nuts, total vegetables, and cooked vegetables. Participation of children in preparation of food had significant association with the mean frequency intake of deep fried foods, simple sugar, and cooked vegetables. Making the healthy and nutritious foods available had significant relations with the consumption of processed meat, snacks, fatty and sweetened snacks, puffs and chips, chocolate, biscuits, beverages, and soft drinks. Parental controlling behavior had significant associations with processes meat, puffs and chips, cooked foods, fast food, beverages, and soft drinks. Controlling the behavior of child showed significant relation with the mean frequency intake of uncooked vegetables. MLRA results showed the association between the daily food groups frequency eaten by children aged 2-6 years and parental behavior patterns (Table 2).

Table 2. Multiple Linear Regression Analysis for the mean frequency of the food groups' daily intake in children aged 2-6

	1.	4 41	. 1	1 1 .		7D 1
٦	ears according	to the	narentai	penavior	natterns in	Lenran

	Bread and grains N=193	Meats and eggs N=194	Dairy products N=204	Fruits N=210	Vegetables N=209	Cooked foods N=197	Fats N=205	Sugar N=203	Snacks N=198	Beverages N=218
	β	β	β	β	β	β	β	β	β	β
Encouragement	020	060†	060	.026	.053	.041	.010	.056	.007	004
Food reward	.010	.000	105†	032	071	.020	026	005	.113†	.004
Excitement control	.045	.039	.104	.219	.078	.042	.037	022	013	.082
Teaching	.080	.009	.089	.161	.113	008	.015	.178	086	021
Role modeling	.029	050	.017	123	074	049	022	107	165†	.013
Participation in food purchase	.048	.094	.211	.237	.129	.053	.038	096	136	.032
Participation in food preparation	019	005	001	001	.036	003	003	.107	.120*	.057
Availability of healthy and nutritious foods	.024	.047*	.060	.171	.069	.057†	.008	.030	.107*	.043
Parental control	019	.003	.027	.139	.001	051†	.047†	.044	004	.057
Children's own control	025	.012	023	078	093*	001	018	152*	066*	.041
Restriction for health	001	023	034	163†	041	009	3.377×10 ⁻⁵	.030	.063*	.022
Restriction to lose weight	011	.000	.015	.052	.024	.016	027*	080*	.002	002
Pressure	.008	002	027	205	067	.005	065	140	110	152
Child's age	.027	022	214	091	.006	.042	.033	129	070	070
Child's sex	018	.164	.167	081	207	.009	.034	226	.155	.365

^{*} P <0.05, † P<0.01

Discussion

The current study found an association between parental behavior patterns and food group frequency eaten by children. Children aged 2-6 years are dependent to their parents and caregivers for food. Parents' choices for food and feeding methods are among the crucial factors of feeding experiences of children. Parental behaviors with regard to the children's nutrition have important roles in forming the food interests and preferences, amount of food intake, children's behavior during the mealtime, and weight status of children. Our findings regarding the association of parental controlling behaviors with children's dietary intake showed that increasing the supervision of parents would reduce the intake of processed meat, puffs and chips, fast foods, and soft drinks. Other researchers have confirmed the current findings; Klesges et al. showed that threat to monitor and real monitoring of parents are effective in reducing the intake of foods with low nutrition values (14). These results show that awareness of children being monitored through their parents would cause them to choose healthier foods; otherwise, children usually prefer foods with low nutritious values and high content of sugar,

saturated fatty acids, and sodium because of their taste. Children in this age obey the rules of their parents. Our findings indicated an association between the children's own control and the reduced intake of uncooked vegetables. Campbell et al. and Ogden et al. also showed similar results (15, 16). Kern and coworkers in a laboratory research found that children's food selection in a free situation is attended to higher energy dense foods (17). Also De Bourdeaudhuij showed that easygoing nutritional behavioral style for children leads to higher intake of sweetened and fatty snacks and lower intake of nutritious and healthy foods (18). The taste and energy density of foods affect children's preferences. Increasing the restrictive behaviors of parents about their children losing weight would cause a decrease in their bread, grains, sugar, fats, and butter intake, and an increase in the intake of puffs, chips and chocolate. This finding shows that nutritional restriction strategies can increase the preference and amount of intake of high calories and delicious foods, which can increase the pleasant feeling of eating these foods in children. Ritchie et al. found that limiting delicious foods have inverse effects on children as

Nutrition and Food Sciences Research Vol 1, No 1, Jul-Sep 2014

they have desire for such foods (19). In other terms, when restrictive foods are available, children are excited, lose their control, and eat a lot from those foods. High limitation in long term may decrease energy selfregulation reactions of children. These reactions respond to the satiety and hunger and food intake modification. Birch and Fisher, and also Liem et al. showed that higher restrictive behaviors of parents are associated with more intakes of sweetened and fatty snacks (20, 21). With monitoring the children's nutrition, parents usually attempt to encourage them to have higher intake of nutritious and healthy foods or limit the intake of nonnutritive foods to prevent obesity. However, the current study and several other studies showed that these efforts may have inverse effects on children's food preferences and energy intake; limitation draws children's attention to restrictive foods, and increases their intake of those foods.

Our results showed that increment of parental encouraging behavior is associated with higher intakes of legumes and cooked vegetables, which is consistent with findings of Gable et al., and Patrick et al., who found a significant relationship between parental encouragement and increasing intake of fruits and vegetables (22; 23). It may be concluded that the greater amount of encouragement from parents will result in higher intake of nutritious foods among children. This may be due to the emotional space of feeding that affects the children's intake. Other studies showed that rewarding foods to children, who have no positive sense, could increase their joy and tendency to the intake of those foods (24-26). These findings may be related to the fact that food rewards, usually used in a positive emotional space, are often sweetened and fatty snacks, which are energy dense, and provide more pleasure to children. Some reasons for likes or dislikes of a food are the emotional space of the food eaten or the sense gained by the child. Therefore, this strategy causes propagation of delicious and energy dense foods, which are usually unhealthy foods. Our findings showed that modeling for children is related to lower intakes of processed meat and synthetic beverages and higher intakes of nutritious snacks, nuts, and dried fruits. Cullen et al. and Faith et al. found similar results, and showed that modeling of healthy foods for children may develop a healthier nutritional program for them (27, 28). Food intake is a social event for children, and includes others whom the child eats with. If children have good experience about eating foods with their parents, when they model eating nutritious and healthy foods, it will develop a positive sense, which may help children to have higher intakes of healthy foods. Our finding reveals that teaching children to consume healthy foods leads to higher intakes of nutritious and healthy foods and lower intakes of non-nutritious foods. In a study by Werle et al., the functional role of nutrition education in promoting children's nutrition was confirmed (29), which is the similar to the findings of Nicola et al. who showed that higher intakes of nutritious and healthy foods such as fruits and vegetables have significant associations with the lower availability of non-nutritious foods at home, such as synthetic fruit juice as well as sweetened, fatty and salty snacks (3). These results show that higher availability of nutritious foods leads to higher intake of those foods and, therefore, lower intake of non-nutritious foods. Children eat foods, which are easily accessible at home. Frequent exposure of foods and frequent experiences of consuming foods in non-obligatory situations can cause loss of resistance and hate toward foods. As parents are responsible for food supply and access in home, they can affect children's food preference and intake. Our findings revealed that participation of children in food purchase and preparation is related to higher intakes of nutritious snacks, nuts, dried fruits, vegetables and cooked vegetables. Similarly, Ogden et al. showed that increasing the participation of children in food preparation leads to higher intake of vegetables in this group (16). In conclusion, any attempt to improve dietary intake of children requires parental role in making interest, dietary behaviors, and eating patterns in children. Indeed, participation of children helps them to be familiar with and have access to foods. It is a kind of active encouragement for the intake of nutritious and healthy foods and increasing the preference of children toward those foods. Therefore, it seems that participation of children in food preparation has both positive and negative effects. So beside participation of children in food preparation, the healthy dietary patterns should be taught to them and they must be educated in this regard.

As this study was done only through kindergartens and many of childrens aged 2-6 years, especially in lower SES (socio-economic status) districts, might not go to kindergartens, our sampling is not a good representative for Tehranian preschool children.

Acknowledgments: We would like to thank all the parents and kindergarten instructors, who sincerely cooperated with us to conduct this study.

References

- Powers SW, Chamberlin LA, van Schaick KB, Sherman SN, Whitaker RC. Maternal feeding strategies, child eating behaviors, and child BMI in low-income African-American preschoolers. Obesity (Silver Spring). 2006 Nov;14(11):2026-33
- Cooper PJ, Whelan E, Woolgar M, Morrell J, Murray L. Association between childhood feeding problems and maternal eating disorder: role of the family environment. Br J Psychiatry. 2004 Mar;184:210-5.
- 3. Spurrier NJ, Magarey AA, Golley R, Curnow F, Sawyer MG Relationships between the home environment and physical

- activity and dietary patterns of preschool children: a cross-sectional study. Int J Behav Nutr Phys Act. 2008 May 30;5:31.
- Fisher JO, Birch LL. Eating in the absence of hunger and overweight in girls from 5 to 7 y of age. Am J Clin Nutr. 2002 Jul;76(1):226-31.
- Petrauskiene A, Dregval L, Petkute S. Health behavior of families having preschool-age children. Medicina (Kaunas). 2007;43(10):816-23.
- Clark HR, Goyder E, Bissell P, Blank L, Peters J. How do parents' child-feeding behaviours influence child weight? Implications for childhood obesity policy. J Public Health (Oxf). 2007 Jun;29(2):132-41.
- Galloway AT, Fiorito LM, Francis LA, Birch LL. 'Finish your soup': counterproductive effects of pressuring children to eat on intake and affect. Appetite. 2006 May;46(3):318-23.
- Benton D. Role of parents in the determination of the food preferences of children and the development of obesity. Int J Obes Relat Metab Disord. 2004 Jul;28(7):858-69. Review.
- Sleddens EF, Kremers SP, Thijs C. The children eating behaviour questionnaire: factorial validity and association with body mass index in Dutch children aged 6-7. Int J Behav Nutr Phys Act. 2008 Oct 20;5:49.
- Story M, Neumark-Sztainer D, French S. Individual and invironmental influences on adolescent eating behaviors. J Am Diet Assoc. 2002 Mar;102(3 Suppl):S40-51.
- Taylor JP, Evers S, McKenna M. Determinants of healthy eating in children and youth, Can J Public Health. 2005 Jul-Aug;96 Suppl 3:S20-6, S22-9. Review. English, French.
- Wardle J, Guthrie CA, Sanderson S, Rapoport L. Development of the chilren's eating behaviour questionnaire. J Child Psychol Psychiatry. 2001 Oct;42(7):963-70.
- Wardle J, Sanderson S, Guthrie CA, Rapoport L, Plomin R. Parental feeding style and the inter-generational transmission of obesity risk. Obes Res. 2002 Jun;10(6):453-62.
- Klesges RC, Stein RJ, Eck LH, Isbell TR, Klesges LM. Parental influence on food selection in young children and its relationships to childhood obesity. Am J Clin Nutr. 1991 Apr;53(4):859-64 10.
- Campbell SB. Behavior problems in preschool children: a review of recent research. J Child Psychol Psychiatry. 1995 Jan;36(1):113-49 12.
- Ogden J, Reynolds R, Smith A. Expanding the concept of parental control: a role for overt and covert control in children's snacking behaviour? Appetite. 2006 Jul;47(1):100-6.
- 17. Kern DL, McPhee L, Fisher J, Johnson S, Birch LL. The postingestive consequences of fat condition preferences for

- flavors associated with high dietary fat. Physiol Behav. 1993 Jul;54(1):71-6 14.
- De Bourdeaudhuij I. Perceived family members' influence on introducing healthy food into the family. Health Educ Res. 1997; 12: 77-90.
- Ritchie LD, Welk G, Styne D, Gerstein DE, Crawford PB. Family environment and pediatric overweight: what is a parent to do? J Am Diet Assoc. 2005 May;105(5 Suppl 1):S70-9.
- Birch LL, Fisher JO. Mothers' child-feeding practices influence daughters' eating and weight. Am J Clin Nutr. 2000 May;71(5):1054-61.
- 21. Liem DG, de Graaf C. Sweet and sour preferences in young children and adults: role of repeated exposure. Physiol Behav. 2004 Dec 15;83(3):421-9.
- Gable S, Lutz S. Household, Parent, and Child Contributions to Childhood Obesity. Family Relations. 2000; 49: 293-300.
- Patrick H, Nicklas TA. A review of family and social determinants of children's eating patterns and diet quality. J Am Coll Nutr. 2005 Apr;24(2):83-92.
- Birch LL, Deysher M. Conditioned and unconditioned caloric compensation: evidence for self-regulation of food intake in young children. Learning and motivation. 1985; 16: 341-355.
- Birch LL, Marlin DW, Rotter J. Eating as the" means" activity in a contingency: Effects on young children's food preference. Child development. 1984; 431-439.
- Newman J, Taylor A. Effect of a means-end contingency on young children's food preferences. J Exp Child Psychol. 1992 Apr;53(2):200-16.
- 27. Cullen KW, Baranowski T, Owens E, Marsh T, Rittenberry L, de Moor C. Availability, accessibility, and preferences for fruit, 100% fruit juice, and vegetables influence children's dietary behavior. Health Educ Behav. 2003 Oct;30(5):615-26.
- Faith MS, Scanlon KS, Birch LL, Francis LA, Sherry B. Parent-Child Feeding Strategies and Their Relationships to Child Eating and Weight Status. Obes Res. 2004 Nov;12(11):1711-22.
- Werle MA, Murphy TB, Budd KS. Treating chronic food refusal in young children: Home-based parent training. J Appl Behav Anal. 1993 Winter;26(4):421-33.