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2 **The importance of mealtime structure for reducing child food fussiness**

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22

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25 and assisted in the interpretation of results. All co-authors participated in manuscript preparation  
26 and critically reviewed all sections of the text for important intellectual content.

28 The aim of this study was to explore how the structure of mealtimes within the family setting is related  
29 to children's fussy eating behaviours. Seventy-five mothers of children aged between 2 and 4 years  
30 were observed during a typical mealtime at home. The mealtimes were coded to rate mealtime  
31 structure and environment as well as the child's eating behaviours (food refusal, difficulty to feed,  
32 eating speed, positive and negative vocalisations). Mealtime structure emerged as an important factor  
33 which significantly distinguished children with higher compared to lower levels of food fussiness.  
34 Children whose mothers ate with their child and ate the same food as their child were observed to  
35 refuse fewer foods and were easier to feed compared to children whose mothers did not. During  
36 mealtimes where no distractors were used (e.g., no TV, magazines or toys), or where children were  
37 allowed some input into food choice and portioning, children were also observed to demonstrate  
38 fewer fussy eating behaviours. Findings of this study suggest that it may be important for parents to  
39 strike a balance between structured mealtimes, where the family eats together and distractions are  
40 minimal, alongside allowing children some autonomy in terms of food choice and intake.

41

42 **Keywords:** Food fussiness; mealtimes; eating behaviour; children; family; modelling

43 **Introduction**

44 Parents frequently report concerns about their children's picky or fussy eating (e.g., Mascola et al.,  
45 2010) whereby children fail to consume an adequate variety of foods through rejection of both  
46 familiar and unfamiliar foods (e.g., Dovey et al., 2008; Galloway et al., 2003). Food fussiness can  
47 represent a barrier to healthy food consumption and a healthy BMI, with associated problems  
48 including low fruit and vegetable intake (Galloway et al., 2003; Jacobi et al., 2003) and essential  
49 nutrient deficiency (Falciglia et al., 2000). Given that fussy eating habits established in early  
50 childhood can persist into adulthood (e.g., Nicklaus et al., 2005), there is need for a thorough  
51 understanding of the early risk factors for fussy eating and ways to modify them.

52         The development of eating behaviour in children is rooted within the family context (Ventura  
53 & Birch, 2008). One important aspect of parents' socialisation of their children's eating is the  
54 mealtime environment and several studies have found positive associations between the frequency of  
55 family meals and child eating behaviour, such as the consumption of healthier foods (e.g., Hammons  
56 & Fiese, 2011; Neumark-Sztainer et al., 2004). However, the importance of family mealtimes is likely  
57 to stretch beyond just their frequency, and interest is growing into the role of the structure of  
58 mealtimes within the family setting (e.g., Berlin et al., 2011; Orrell-Valente et al., 2007). Within  
59 studies exploring family mealtimes, it is often unclear whether parents or family members are eating  
60 the same food as their child during the meal or eating something different (Hammons & Fiese, 2011).  
61 Given the importance of modelling in the development of children's food preferences (e.g.,  
62 Palfreyman et al., 2014) and evidence from experimental studies that children tend to sample  
63 unfamiliar foods more readily when an adult is also eating the same food (Harper & Sanders, 1975),  
64 it is likely that this could be an important component in relation to children's fussy eating behaviour.

65         Factors such as not eating at a table and the presence of distractions at meals have also been  
66 associated with the presence of child feeding problems (Cooper et al., 2004). Parental use of  
67 distractions at mealtimes (when a child will not eat without a distraction) has been identified as a  
68 diagnostic criterion for infantile feeding disorders (Levinne et al., 2011), however research findings

69 are mixed. Distractions such as TV viewing have also been linked higher energy intake at mealtimes  
70 (e.g., Coon et al., 2001) and overweight (e.g., Dubois et al., 2008) and further research is needed to  
71 clarify the association between fussy eating and the use of distractions.

72 Another aspect that may be important when considering the mealtime environment is that of  
73 child autonomy (Satter, 1990; 1995). Satter (1995) highlights the importance of reciprocity in the  
74 feeding process, with parents providing structure within a mealtime but allowing infants and young  
75 children the opportunity for choice and exploration (Satter 1990). Research has shown that over time,  
76 given autonomy, young children tend to eat a variety of food and achieve a nutritionally adequate diet  
77 (e.g., Rolls, 1986). Therefore it is possible that allowing children autonomy or input into decisions  
78 around food choice or portion size may be important in the development of adaptive eating behaviour.  
79 Exploration of mealtime structure in more detail, rather than just the frequency of family meals, may  
80 provide greater insight into how mealtime structure may be adapted to promote healthier child eating  
81 behaviour.

82 Observational studies of the home mealtime environment, particularly in non-clinical groups,  
83 are rare and many studies rely on parents' reports of mealtimes and eating behaviour (e.g. Berlin et  
84 al., 2011; Galloway et al., 2003). Whilst some studies suggest that mothers are reasonably accurate  
85 in their reports of mealtime interactions (Cooper et al., 2004; Farrow & Blissett, 2005), others have  
86 found that maternal reports are not validated by independent observations (Haycraft & Blissett, 2008)  
87 or that the accuracy of maternal reports depends on child weight (Farrow et al., 2011). Therefore, the  
88 present study aims to explore the relationship between observations of fussy child eating behaviour  
89 and mealtime structure. It was hypothesised that greater fussy eating behaviour would be observed in  
90 children whose mothers do not eat with them, who do not allow the child input into food choice or  
91 portion size, or who use a distraction during the meal.

92

93

94 **Methods and Materials**

95 ***Participants***

96 Seventy-five mothers (mean age=35.94, range 26.78-45.82, SD=4.19), participated with their  
97 children (mean age=3.31 years, range 2.26-4.37, SD=1.17). There were 37 boys and 38 girls. Families  
98 were recruited through advertisements distributed to nurseries, pre-schools, children centres and  
99 online parenting sites. Mothers were predominantly White British (97%), with a modal occupation of  
100 'associate professional and technical occupations' (Office for National Statistics, 2000). Maternal  
101 mean self-reported BMI was 23.83 (SD=3.32) and mean objective, age and gender adjusted child  
102 BMI Z-score was .55 (SD = .86), indicating a healthy BMI (Child Growth Foundation, 1996).

103

104 ***Measures and procedure***

105 Following ethical approval from Loughborough University's Human Participants Sub-Committee,  
106 recruitment and consent, mothers completed demographic information and mother-child dyads were  
107 observed during a typical lunch or evening meal at their home. The mealtime was recorded using a  
108 video camera while the researcher waited in another room. After maternal consent, children who  
109 assented were weighed and measured by the researcher using a Leicester height measure (to nearest  
110 0.1cm) and digital Secca scales (to the nearest 0.1kg).

111 ***Mealtime structure and environment.*** The mealtime recordings were firstly coded using six  
112 items relating to the environment and structure of the child's mealtime, using variables previously  
113 used by Cooper et al. (2004) and Orrell-Valente et al. (2007). These include whether the mother eats  
114 with the child, eats the same food as the child, allows their child some autonomy in food choice,  
115 whether distractions are used (e.g. watching television, play with toys) and whether the father or  
116 siblings are eating with the child. Autonomy in food choice refers to a parent allowing the child some  
117 input in the type and/or amount of food provided for the meal.

118 ***Child Eating Behaviour.*** Mealtime duration and the total number of mouthfuls consumed by  
119 the child were recorded to calculate the child's speed of eating (mouthfuls per minute). Two subscales  
120 from the Child Mealtime Coding Scheme (CMCS; Haycraft, 2007) were used to provide an index of

121 child enjoyment of food; positive comments (e.g., “mmm this food is yummy”) and negative  
122 comments (e.g., “I don’t like it”) about food made by the child. A count was made for every  
123 vocalisation made in each category during the meal. The CMCS was also used to generate an overall  
124 index of how easy or difficult the child was to feed, ranging from 1 (easy; e.g., usually autonomous  
125 feeder, eats well with little protest) to 5 (difficult; e.g., much resistance to offers of food, refusal to  
126 eat). The CMSC has been shown to have good inter-rater reliability (Haycraft, 2007). A measure of  
127 food refusal was adapted from Young and Drewett’s (2000) coding scheme for food refusal/rejection.  
128 To account for the fact that not all children in the sample were spoon-fed a broader definition of food  
129 refusal was used. A count was made each time the child shook their head, turned their head away,  
130 pushed food away (either from parental prompt or around the plate), said “no” or commented with a  
131 similar meaning, made negative comments about not wanting to consume food, spat food out, or  
132 verbally or physically rejected foods on the plate.

133 One experienced researcher coded all of the observations. A second independent observer,  
134 who was trained on the FMCS, coded a random sample of 20% of the observations. Inter-rater  
135 reliability was assessed using intra-class correlations (McGraw & Wong, 1996). The mean intra-class  
136 correlation coefficient was .84 (range .79-.94) and the mean level of significance was  $p < .001$ . This  
137 indicates a high degree of agreement between the coders and suggests that the coding of this measure  
138 achieved good reliability

139

#### 140 *Data analysis*

141 Preliminary analysis of the data using Shapiro-Wilk tests and visual inspection of plots/graphs  
142 indicated the data was largely non-normally distributed; consequently non-parametric statistics were  
143 used where possible. Preliminary Spearman’s two-tailed correlations revealed no significant  
144 associations between observed child eating behaviour with parent age, parent BMI and child BMI z  
145 scores, or maternal occupation (all  $p > .05$ ). Younger children were observed to refuse more foods ( $r$   
146 =  $-.43$ ,  $p < .001$ ) and were rated as more difficult to feed ( $r = .41$ ,  $p < .001$ ), however child age was not

147 related to child eating speed ( $r = .17, p = .16$ ), positive vocalisations made about food ( $r = .15, p = .20$ ) or  
148 negative vocalisations about food ( $r = -.08, p = .47$ ). There were no significant associations between child  
149 age and mealtime structure; mother eating with child ( $r = -.20, p = .09$ ), mother eating same food as  
150 child ( $r = -.17, p = .15$ ), input in food choice ( $r = -.13, p = .27$ ) and use of distractions ( $r = .06, p = .60$ ).  
151 Mann-Whitney U tests indicated no significant differences in observed child eating behaviour  
152 dependent on whether children were male or female; White or non-White; observed at lunch ( $n = 39$ )  
153 or evening meal ( $n = 36$ ); and whether the father or siblings were present (all  $p > .05$ ). Next, Mann-  
154 Whitney U tests evaluated whether there were significant differences in child eating behaviour  
155 dependent on the mealtime structure and environment. The p-value was set at  $< .01$  to reduce the  
156 chance of type I errors.

157

## 158 **Results**

### 159 *Descriptive Statistics.*

160 Descriptive statistics for independent observations of child eating behaviour are presented in  
161 Table 1. Mean scores are similar to other data in similar samples (Haycraft et al., 2007; Young &  
162 Drewett, 2000). The mean mealtime duration was 23.21 minutes ( $SD = 7.75$ ; 95% CI [21.37, 25.04]).

163

164 [Table 1]

165

### 166 **Mealtime structure and observed child eating behaviour**

167 Descriptive and Mann-Whitney U statistics for each of the observed mealtime structure  
168 variables in relation to child eating behavior are presented in Tables 2 -5. Children whose mothers  
169 ate with them refused fewer foods during the meal ( $U = 280.50, z = 3.93, p < .001$ ) compared to mothers  
170 who did not and were observed as being easier to feed ( $U = 366.00, z = -2.99, p = .003$ ) compared to  
171 children whose mothers did not. In addition, children whose mothers ate the same food as them  
172 refused fewer foods ( $U = 280.50, z = -3.98, p < .001$ ), made fewer negative vocalisations about food

173 (U=424.00, z=-2.58, p=0.01), and were easier to feed (U=354.00, z=-3.19, p=0.001) compared to  
174 children whose mothers who ate something different or didn't eat with them.

175 Children who were allowed input in food choice and/or portion size refused foods less during  
176 the meal (U=321.00, z=-3.61, p<.001), made fewer negative comments about food (U=326.00, z=-  
177 4.02, p<.001), had a faster eating rate (U=321.00, z= -3.61, p<.001), and were observed as being  
178 easier to feed (U=383.50, z=-2.95, p=.003). Children who had a distraction during the meal (e.g., TV,  
179 radio, books, magazines, toys) refused foods more (U=140.00, z=-2.79, p=.005), and made more  
180 negative vocalisations about food (U=160.00, z=-2.79, p=.005) than those who were not distracted.

181

182 [Table 2]

183 [Table 3]

184 [Table 4]

185 [Table 5]

186

## 187 **Discussion**

188 This study aimed to explore whether there were any significant differences between  
189 observations of children's eating behaviour depending on the mealtime structure. As predicted,  
190 mealtime structure emerged as an important factor which significantly distinguished dyads with  
191 higher, compared to lower, levels of fussy child eating behaviour. Previous research with older  
192 children has highlighted the importance of family mealtimes in the development of healthy and  
193 adaptive eating (e.g., Neumark-Sztainer et al., 2004; White et al., 2013). Supporting and extending  
194 this, the present study found that children whose mothers not only ate with them but also ate the same  
195 food as them, refused fewer foods and were easier to feed compared to children whose mothers did  
196 not. This provides support for lab-based research where 2-5-year-olds accepted and ingested more of  
197 a novel food when an adult was eating a similar food, of the same colour, rather than just sitting  
198 together but not eating (Addessi et al., 2005) and provides further evidence that mealtime structure

199 may play an important role in providing an opportunity for the role modelling of healthy eating. This  
200 is particularly important given that observations of maternal modelling have been found to be related  
201 to increased enjoyment of food and lower food fussiness (Palfreyman, et al., 2015). Future research  
202 should utilise observational measures to reduce potential self-report bias (Haycraft & Blissett, 2008;  
203 Farrow et al., 2011) and explore the interaction between mealtime structure, modelling and the  
204 mealtime atmosphere/dynamic.

205 Interestingly, there were no significant differences in children's eating behaviour according  
206 to whether their father or siblings were present. However, fathers were present in only 19 of the 75  
207 mealtimes and this sample may be underpowered to detect significant differences according to  
208 paternal presence. Future studies should continue to explore the role of additional family members  
209 during mealtime interactions in order to ascertain the whether their presence and behaviour during  
210 mealtimes affect child eating behaviour.

211 Less fussy eating was also observed in children whose mothers allowed them some autonomy  
212 in food choice. Previous research has shown that over time, given autonomy, young children tend to  
213 eat a variety of food and achieve a nutritionally adequate diet (e.g., Rolls, 1986). Similarly our  
214 findings suggest that autonomy in food choice or portion size is related to fussy eating behaviour.  
215 However, it is possible that the degree to which mothers allow autonomy is actually dependent on the  
216 child's eating behaviour; mothers of fussy eaters may feel the need to direct and stipulate what their  
217 child eats, in an attempt to counter their fussy, restrictive eating behaviours and improve their dietary  
218 intake. Longitudinal studies are essential in order to infer causal relationships between mealtime  
219 structure and fussy eating behaviours in children. As autonomy in food choice has emerged as an  
220 important and interesting factor, future studies should consider measuring autonomy in portion size  
221 and autonomy in food type independently to ascertain which is the most important. In addition,  
222 exploring the idea of 'choice' on a continuum, rather than a dichotomy, could provide an insight into  
223 the degree of choice that may appropriate in promoting adaptive eating behaviour in young children.

224           Within the present sample, younger children were found to refuse more food, and were rated  
225 as more difficult to feed. Given that food fussiness is more prevalent in younger children (Carruth et  
226 al., 2004) this is not unexpected and it is important to consider how age may also relate to the way  
227 parents structure their mealtimes. Perhaps surprisingly, child age was also not related to any of the  
228 mealtime structure variables measured, and as such, was not controlled for within the analyses. This  
229 could be due to the fact that the age range within this study was relatively small (mean age=3.31  
230 years, range 2.26-4.37, SD=1.17) or it could be a reflection of the social demography of this sample.  
231 Caution must be taken when generalising the current findings as the sample consisted of  
232 predominantly White British mothers.

233           In summary, the results of this study indicate that more adaptive eating behaviours are seen  
234 in children where mothers eat with them and consume similar foods. Whilst this and previous  
235 evidence highlights the importance of structured family mealtimes (e.g., Berlin et al., 2011; Cooper  
236 et al., 2004), the findings in relation to child autonomy in food choice and portioning also support  
237 ideas from the feeding dynamics approach that the degree of parental control of a child's intake should  
238 be minimal (e.g., Satter, 1995). It may be important for parents to strike a balance between a clear  
239 structure, where the family eats together and distractions are minimal, and allowing children some  
240 autonomy in terms of food choice and intake. This may increase the opportunity for role modelling  
241 of healthy eating, promote more autonomous eating in the child, and reduce food fussiness. Further  
242 research is needed to explore observed mealtime structure and environment in greater depth and in  
243 wider socio-demographic and ethnic groups.

244 **Key Messages**

- 245 - During independent observations children refused less food when mothers ate with them and
- 246 ate the same food
- 247 - Children refused more foods when distractions (e.g. TV, radio) were used during mealtimes
- 248 - Children were more positive during mealtimes where they had choice about what meal they
- 249 were being served or the portion size they were given.

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