Predictors of paternal and maternal controlling feeding practices with 2- to 5-year-old children

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PREDICTORS OF PATERNAL AND MATERNAL CONTROLLING FEEDING PRACTICES WITH 2 TO 5-YEAR-OLD CHILDREN

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ABSTRACT

Objective: This study aimed to identify predictors of controlling feeding practices in both mothers and fathers of young children.

Design: Cross-sectional, questionnaire design.

Setting: Nursery schools within the United Kingdom recruited participants.

Participants: Ninety-six mothers and fathers, comprising 48 mother-father pairs of male and female children aged 2 to 5 years.

Main outcome measures: Parents’ child feeding practices, eating psychopathology, general mental health symptomology, and their children’s eating behaviors and temperament.

Analysis: Preliminary correlations; stepwise regressions.

Results: Maternal controlling feeding was predicted by children’s eating behaviors (emotional over- and under-eating), child temperament (sociability), and maternal general mental health symptoms. Paternal reports of children’s eating behaviors (slow eating and emotional under-eating) were the only significant predictors of fathers’ controlling feeding practices.

Conclusions and implications: Mothers’ and fathers’ feeding practices seem to be better linked to child characteristics than to the presence of eating psychopathology symptoms. Children’s emotional eating predicted all three controlling feeding practices in mothers and warrants further study to elucidate the causal nature of this relationship.

[Abstract word count = 165]

Key words: child feeding; eating; temperament; pressure to eat; restriction.
Over-controlling child feeding practices may contribute to the development of childhood obesity, particularly in white, middle class samples (1,2). Practices such as excessive overt restriction of children’s food intake may promote childhood overweight by inhibiting the child’s development of self-regulatory processes in appetite regulation (3,1). Researchers must endeavour to discover what circumstances might lead parents to use these feeding practices with the aim of reducing practices which may unintentionally promote childhood obesity.

Recent research has found children’s temperament, feeding behaviors, and maternal mental health to predict mothers’ controlling feeding practices with their 1 and 2-year-old children (4). In addition, the use of controlling feeding practices is thought to be fairly stable (4,5). What is not known, however, is whether these same factors are predictive of the controlling feeding practices used by mothers of children aged 2 to 5 years, and whether fathers’ feeding practices have similar predictors.

Symptoms of eating psychopathology in parents have been commonly associated with the use of overly controlling feeding practices in both non-clinical and clinical samples. For example, mothers with eating psychopathology or with their own eating and weight issues have been found to be less sensitive and more coercive during mealtime interactions with their children (6), use more restrictive child feeding practices with their daughters (7), and carry out high levels of monitoring of their daughters’ food intake (8). Fathers’ dieting attitudes and behaviors have also been shown to be important in predicting their sons’ and daughters’ later weight concerns and dieting behaviors (9).

Other types of parental psychopathology have also been related to controlling feeding interactions. Symptoms of anxiety and obsessive-compulsive disorder (OCD) have both been
related to greater maternal restriction of children’s food intake (7,10). Depression has been
associated with increased application of pressure to eat in mothers of 5-year-old girls (7); a
practice which can also impair children’s recognition of their internal responses to hunger and
satiety (3). Although studies examining fathers’ psychopathology and feeding interactions are
scarce, a range of mental health symptoms have been shown to relate to fathers’ use of more
pressuring and restrictive feeding practices with their young children (11).

While considerable effort has been devoted to identifying the parental factors that
predict maladaptive feeding practices, it is likely that there is an interaction between child
characteristics and parental practices. Much of the literature implies a causal relationship
between feeding practices and children’s subsequent eating behavior and weight gain, but
parents are also likely to moderate their feeding practices according to their children’s eating
behavior. For example, previous research (4) has found children’s eating behaviors to be
important predictors of maternal controlling feeding practices with children at both one and
two years of age. It is likely that there is a multidirectional interaction between children’s
eating behavior, weight status and parents’ feeding behaviors. It has been suggested that
factors such as fussiness can be problematic for parents to manage (see 12) and children’s
picky eating has been associated with parents applying pressure on their children to eat (13).
Hence, children’s eating behaviors are expected to be good predictors of mothers’ and fathers’
feeding practices with their 2 to 5-year-old children.

Difficult infant temperament can be related to problematic feeding interactions
between mother and child (14), and to children’s unwillingness to try novel foods (15). The
role of infant temperament in non-clinical feeding difficulties has been widely established,
while its role in determining parents’ feeding practices is less well understood. Infant
temperament, specifically maternal perceptions of infant dullness and unpredictability, has
previously been found to predict maternal control with 1- and 2-year-old infants (4), but no
work to date has examined temperament as a predictor of controlling feeding practices in a
sample of older children, or as a potential predictor of fathers’ feeding practices.

The majority of research in the child feeding domain has considered mothers, yet research suggests that fathers play important roles in child feeding (16-18). It is widely accepted that mothers tend to have more responsibility than fathers for feeding a child and for deciding on the types of food that the child eats. This difference has been reflected in the literature with studies finding that mothers report having significantly greater feeding responsibility than fathers, even in dual income families (16). Hence the current study aims to further examine differences between mothers and fathers; this time examining which of a series of factors might best predict mothers’ and fathers’ controlling feeding practices.

In summary, this study will examine whether measures of children’s eating behaviors, children’s temperament, and parents’ psychopathology will contribute to the explanation of monitoring, pressure to eat and restrictive child feeding practices, in both mothers and fathers of preschool children. Children’s less adaptive eating behaviors (e.g., slowness, emotional eating, and fussiness), difficult child temperament (e.g., less sociable, more emotional), and greater reported levels of parental psychopathology were all hypothesised to predict more controlling maternal and paternal feeding practices. In this exploratory, cross-sectional study, reference to ‘prediction’ and ‘predictors’ refers to statistical prediction and does not imply assumptions about causal relationships. Furthermore, differences in the predictors contained within final models for mothers and for fathers were expected, in light of factors such as mother-father differences in child feeding responsibility.

METHOD

Participants

Ninety-six parents constituting 48 mother-father pairs of children aged between 2 to 5 years took part in this study. The participants were recruited with the assistance of private and Local Education Authority Nursery Schools from the West Midlands and
Cambridgeshire, UK. Approximately 2000 questionnaires were sent to nurseries and, presuming that all of these were distributed, this suggests a response rate of 9.4%. Pairs of returned questionnaires were matched up using an identifier code and participants were excluded if they were not part of a pair of returned questionnaires or if they were not cohabiting with their partner (n=72). Respondents were also excluded if the child they reported on was under 24 or over 60 months of age (n=10 pairs). The mean age of the mothers was 35 years (SD 4.28, range 23 to 46 years) and the mean age of the fathers was 37 years (SD 5.00, range 26 to 49 years). The mean age of the children was 42 months (SD 9.00, range 24 to 59 months). Eighty percent of mothers and 83% of fathers had managerial/professional occupations, as assessed by the National Statistics Socio-Economic Classification self-coded method (NSSEC; 19). The NSSEC comprises four questions which ask: 1. Whether the individual is (or was, when last in employment) an employer, self-employed or an employee; 2. The size of organisation in which they work(ed); 3. Supervisory status; and, 4. Current or most recent occupation. Responses to these questions lead to one of the following five classifications: managerial/professional occupations; intermediate occupations; small employers and own account workers; lower supervisory and technical occupations; semi-routine and routine occupations. Ethnicity data were not collected, but the nurseries involved in this study served primarily white neighbourhoods. Seventy-nine percent (n=38) of the parents were married and 21% (n=10) were cohabiting.

Measures and procedure

Following institutional review board ethical approval, informed consent was obtained from mothers and fathers and the following self-report questionnaires were administered via nurseries. Questionnaires were returned via post to the researchers.

Child Feeding Questionnaire (CFQ) (20): The CFQ is a valid, reliable measure (20) which assesses parental beliefs, attitudes and practices regarding child feeding, and examines
Parental concerns about childhood obesity. The measure is suitable for use by mothers and fathers. Parents reported on the following feeding practices: Monitoring (keeping track of children’s unhealthy food intake); Pressure to Eat (encouragement to eat more food); and Restriction (limiting consumption of certain foods; using food as rewards). Responses are indicated using a 5-point scale with response options ranging from “never” to “always” for monitoring and from “disagree” to “agree” for the pressure to eat and restriction subscales. Mean scores are calculated for each subscale with possible mean scores ranging from 1 to 5. Higher scores indicate greater reports of each feeding practice. 

**Child Eating Behaviour Questionnaire (CEBQ) (12):** The CEBQ assesses children’s eating styles based on parental reports of their child’s behavior and has been shown to be valid and reliable (12). Seven subscales which examine children’s positive and negative reactions to food were used: Food Responsiveness; Enjoyment of Food; Satiety Responsiveness; Food Fussiness; Slowness in Eating; Emotional Over-Eating; and Emotional Under-Eating. The Desire to Drink subscale was excluded from this study. The questions are rated on a 5-point scale (1=never to 5=always), and five items are reverse scored. Mean scores ranging from 1 to 5 are calculated for each subscale and higher scores indicate a greater prevalence of that particular eating behavior.

**EAS Temperament Survey for Children: Parental Ratings (EAS) (21):** The EAS is a parental self-report measure of children’s temperament, comprising four subscales: Emotionality; Activity; Sociability; and Shyness. Twenty statements are responded to on a 5-point scale, ranging from 1 (not characteristic of your child) to 5 (very characteristic of your child). Six items are reverse-scored. Mean scores from 1 to 5 are calculated for each subscale. The EAS has previously demonstrated adequate psychometric properties (22).

**Eating Disorder Inventory-2 (EDI-2) (23):** The EDI-2 is a self-report measure of eating disorder symptoms. It has been validated for use with non-clinical samples of men as well as women (24) and has been found to display good reliability and validity (23).
questions pertaining to the three eating subscales were administered in this study: Drive for Thinness; Bulimia; and Body Dissatisfaction. Each item is scored on a 6-point scale, with options ranging from “always” to “never”. Six items are reverse-scored. A total EDI score was calculated by summing the responses to all 23 questions. Possible scores ranged from 0 to 69. Higher scores indicate greater levels of pathology.

Brief Symptom Inventory (BSI) (25): The BSI is a measure of current, point-in-time, psychological symptom status which is widely used and has good levels of reliability and validity (26). The BSI consists of 53 questions and response options range from 0 (not at all) to 4 (extremely). Higher scores indicate a greater experience of the symptom. As per recommendations in the BSI manual (25), raw scores were converted to T-scores with possible T-scores ranging from 33 to 80. For the purposes of this study, only the overall measure of current level of symptomology (the Global Severity Index) will be used. The Global Severity Index (GSI) is the most sensitive single indicator of the respondent’s distress, and combines the number of symptoms reported with information about intensity of distress (25).

Additional information: Parents were asked to report height and weight data for their children. In addition, researchers completed height and weight measurements for 33% (n=16) of the children in the current sample who were visited at home. Pearson’s one-tailed correlations showed excellent concordance between parents’ reports of their children’s heights and weights and those obtained by the researcher, suggesting reliability in these data (r values .791 to .856, p values .001 to <.001). Children’s Body Mass Index (BMI) scores were calculated and then converted into BMI standard deviation scores (BMI SDS) using the Child Growth Foundation Reference Curves Disc (27), which standardises BMI for child age and gender. The mean child BMI SDS was 0.02 (SD 1.73, range -3.46 to 3.04). Using the international definitions for overweight and obesity in children aged over 2-years-old established by Cole, Bellizzi, Flegal and Dietz (28), four children in this sample (8%) were at
risk of overweight in adulthood (i.e. having a BMI ≥ 25 at age 18+) and five children (10%) were classified as at later risk of obesity (i.e. a BMI ≥ 30 in adulthood). Information was requested about breastfeeding duration and, using the NSSEC, about mothers’ and fathers’ socio-economic status (SES) (19), in addition to child BMI data, because these factors have previously demonstrated relationships with eating, child BMI and controlling feeding practices (4,20,29,30). Mothers and fathers were also asked to indicate the number of meals, during a typical week, that they ate with their child.

Data analysis

The majority of the data were identified as being non-normally distributed and so non-parametric tests were used where possible. Significance levels were set at p<.05 for all analyses.

There were no significant differences in parents’ feeding practices dependent on the gender of the child. Therefore, child gender was not examined further in this study.

Two-tailed Spearman’s correlations were conducted to examine the relationships between potentially confounding variables (child BMI SDS, child and parent age, parents’ SES, and breastfeeding duration) with mothers’ and fathers’ child feeding practices. There were no significant correlations between any of these factors with maternal or paternal reported feeding practices and so these factors were not entered into any of the subsequent regression analyses. It is particularly noteworthy that child BMI SDS was not related to either maternal or paternal child feeding practices and so was not controlled for in any of the following regressions.

As the sample size was modest, and in order to maintain power when using regressions, a series of two-tailed Spearman’s correlations were initially conducted to identify significant correlates for entry into the regression equations.
A series of stepwise multiple linear regressions were then run to test the hypothesis that children’s maladaptive eating behaviors (e.g., slowness, emotional eating, and fussiness), difficult child temperament, and greater reported parental psychopathology were likely to predict more controlling parental feeding practices. Mothers’ reports were used to predict their feeding practices and fathers’ feeding practices were predicted from paternal reports, in order to examine how each parent’s perceptions of their child are related to their reported child feeding practices. The distribution of the CFQ subscales is noteworthy, being a mixture of normally (maternal reports of pressure to eat and restriction) and non-normally (all paternal CFQ subscales and maternal monitoring) distributed. There is no non-parametric equivalent of regression analysis, but the use of multiple regression analyses was deemed suitable on these data as Field (31) has stated that “predictors do not need to be normally distributed” (p.170), rather it is the normal distribution of the errors which is important. Hence, the data were screened for violations to the regression assumptions as outlined by Tabachnick and Fidell (32). Stepwise regressions were chosen in view of the exploratory nature of these analyses. Six regressions were conducted to examine the predictive value of children’s eating behaviors, children’s temperament and parent mental health on mothers’ and fathers’ feeding practices.

RESULTS

--- TABLE 1 ABOUT HERE ---

Descriptive statistics

The data obtained from mothers and fathers in the current study (Table 1) are broadly in line with data obtained in other studies which have used the CFQ (16), CEBQ (12), EAS (22), EDI-2 (11) and BSI (25). The reliability of these measures with the current sample ranged from acceptable to excellent (Table 1). Nine mothers (19%) and 8 fathers (17%) had a
GSI score of 63 or more, which is the cut-off for clinical concern or “caseness” (25, p.32).

Four mothers (8%) but no fathers had scores on the EDI-2 that indicated potential clinical caseness in their reports of their drive for thinness. This difference in EDI-2 scores is in line with findings from another sample of parents of preschoolers (16), where mothers reported more eating disorder symptoms than fathers. No participants’ scores reached a clinically significant level of bulimia symptoms. Mothers reported eating a mean of 15 meals (SD 4.06) per week with their child and for fathers, the mean was 11 meals (SD 3.51). This is in accordance with previous work which has found both fathers and mothers in two parent families to eat frequently with their children (17).

--- TABLE 2 ABOUT HERE ---

Significant correlates shown in Table 2 were selected for entry into regression analyses to identify predictors of mothers’ and of fathers’ feeding practices. It is noteworthy that maternal and paternal reports on the CEBQ were all positively and significantly associated (p<.05) with the exception of emotional under-eating, for which there was evidence of a trend (p=.075) (data not shown), suggesting similarity in parental judgement of children’s eating behaviors.

--- TABLE 3 ABOUT HERE ---

**Predictors of maternal and paternal monitoring:** Greater maternal monitoring was predicted by lower levels of children’s emotional over-eating and lower child sociability (Table 3). Higher levels of paternal monitoring were predicted by lower levels of children’s emotional under-eating. Child temperament did not predict paternal monitoring and neither eating disorder symptoms nor general mental health predicted maternal or paternal
Predictors of maternal and paternal pressure to eat: The significant predictors of higher levels of maternal pressure to eat were mothers’ reports of their children emotionally under-eating and higher levels of maternal general mental health symptoms (GSI). Children’s temperament and maternal eating disorder symptoms did not predict maternal use of pressure. Children’s slowness in eating was the only significant predictor of greater paternal use of pressure to eat. Paternal mental health symptoms and children’s temperament did not significantly predict fathers’ pressuring feeding practices.

Predictors of maternal and paternal restriction: Maternal restriction was solely predicted by higher levels of children’s emotional over-eating. Children’s temperament and maternal mental health did not predict mothers’ restrictive feeding practices. For fathers, their use of restriction was predicted by children’s slowness in eating. Fathers’ own mental health scores and children’s temperament were not significant predictors of their use of restriction.

DISCUSSION

The current study aimed to identify parent and child variables which best predicted controlling child feeding practices in a sample of mothers and fathers of 2- to 5-year-old children. It also aimed to highlight differences between mothers and fathers in the patterns of significant predictors of their feeding practices. Different patterns of predictors were found for mothers and fathers, and child factors were recurrent predictors of parental feeding practices. Fathers’ feeding practices were predicted entirely by their children’s slow or under-eating behaviors. In contrast, maternal feeding practices were predicted by a more complex set of predictors, including children’s emotional eating behavior, child sociability and maternal mental health symptoms.

For mothers, monitoring behavior was best predicted by their reports of their child’s sociability and emotional over-eating. Having a less sociable child predicted greater
monitoring of children’s snack or junk food intake. Previous studies have associated difficult, unsociable child temperaments with negative mealtimes and difficult feeding interactions (14,15). Hence, it is possible that increased monitoring is a response to eating difficulties in children with unsociable temperaments. Additionally, mothers tended to monitor their children’s food intake more when their children were less likely to emotionally over-eat. Moderate levels of monitoring can be adaptive (2). Therefore, this finding may indicate that these mothers are implementing appropriate covert control over their children’s eating, by monitoring their food intake, and that these children have healthier eating attitudes, as illustrated by them being less likely to emotionally over-eat.

Lower reported levels of children’s emotional under-eating predicted more paternal monitoring of their children’s food intake. These findings also accord with the suggestion that appropriate levels of monitoring can relate to healthier eating behaviors, as fathers who keep track of their children’s food consumption have children who are less likely to emotionally under-eat.

Mothers’ reports of emotional under-eating in their children and symptoms of mental health problems best predicted maternal reports of applying pressure for their children to eat. Pressure to eat often occurs when parents feel that their child is eating insufficient food (7,13). If mothers perceive their children to be under-eating, albeit in response to emotional situations, then it is unsurprising if this predicts them pressuring their children to eat. However, it could also be that it is the mothers’ pressuring feeding behaviors which lead to their children refusing food or under-eating, due to the creation of a negative environment surrounding eating and mealtimes. The association between negative mealtimes and food refusal has been found in previous research (33). Maternal mental health symptoms also predicted maternal use of pressure. Mental health symptoms have previously been related to the use of pressuring (7,11) and restrictive (7,10) feeding practices. It is suggested that these symptoms may impair parents’ sensitivity and responsiveness to their children, which may
extend into the feeding domain, with feeding interactions being more controlling. It is noteworthy that this finding accords with that of a previous study (4), where mental health symptoms also predicted pressure to eat in a sample of mothers with 2-year-old children.

Children’s slowness in eating predicted fathers’ application of pressure for their children to eat. Children who are slow eaters may elicit parental pressure to finish the meal, or alternatively, paternal pressure may create a negative mealtime, leading to children eating more slowly. Previous literature has suggested that children’s slow eating can be an indicator of heightened responsiveness to satiety (34). Pressuring children who parents perceive are slow eaters may suggest that these parents are encouraging their children to eat beyond satiety.

Children’s emotional over-eating was the only predictor of restrictive feeding practices in mothers. Mothers who use restrictive feeding practices may be particularly sensitive to their children’s eating behavior in response to emotion. If mothers feel that their children tend to eat more in response to emotional situations, then they may restrict their children’s unhealthy food intake as a way of ensuring that their child eats more healthily. It is also possible that maternal tendencies to impose restriction may be teaching children emotional responses to food, rather than allowing children autonomy in their food choices.

Paternal restriction was predicted by children’s slowness in eating. Children may eat slowly as a response to higher levels of paternal restriction; mealtimes may be more controlling, less enjoyable, constituted of less palatable or preferred foods, potentially leading to greater conflict and to children eating more slowly. Alternatively, it is possible that fathers who perceive their children to be slow eaters are more likely to impose restrictive feeding practices upon their children. Slow eating is often associated with smaller appetites (34), and fathers may perceive that slow eating during meals may be due to snacks that they have eaten prior to the mealtime. Greater restriction of snack and junk foods may thus follow.

The regression analyses presented in this paper have supported and extended previous
findings (4). This study has shown that similar factors to those found with mothers of 1- and
2-year-old children are predictive of both parents’ controlling feeding practices with a group
of preschool children. Furthermore, this study has shown that these parental feeding practices
were frequently predicted by children’s eating behaviors. As expected, the factors predicting
maternal and paternal use of controlling feeding practices differed, with children’s emotional
eating significantly predicting mothers’ feeding practices and children’s slow eating being a
recurrent predictor of fathers’ feeding practices. There is a tentative suggestion from these
data that fathers’ feeding practices may be predicted by less complex factors than mothers’
feeding practices, with fathers’ practices predicted by children’s eating behaviors and
mothers’ practices predicted by their own mental health, their child’s emotional eating
behaviors, and their child’s temperament. While we have demonstrated that practices
performed by mothers and fathers are associated with different predictors or correlates, it is
important to note that we do not believe that a particular practice performed by a father is
necessarily different from the same practice performed by a mother, or that the potential
impact of a practice delivered by a mother rather than a father will be necessarily different.
Paternal practices may be more clearly, and perhaps more simply, related to the child’s eating
behaviors, whereas maternal practices may be related to a broader spectrum of factors related
to both child and maternal characteristics. These characteristics may not be limited to eating
but are perhaps linked to mothers’ wider relationships, interactions or mental states. It is
possible that each parent’s parenting style or emotional tone might moderate the relationship
between practice and outcome. For example, paternal pressure to eat may be delivered with a
different emotional context than maternal pressure to eat, which in turn may have different
effects on children’s eating. This remains speculative because our self-report study was
unable to examine such factors and as yet no studies have examined these potential
differences.

That children’s BMI SDS did not correlate with any parental feeding practices is in
line with some previous findings (35). It is possible that, as most of the children in the current sample were neither overweight nor obese, these parents’ feeding practices may be more responsive to their children’s eating behaviors and temperament than their child’s BMI. It would be interesting to see if the same findings occurred between child BMI SDS and feeding practices in parents of obese or overweight children.

The current study failed to find evidence of eating disorder symptoms as significant predictors of mothers’ or fathers’ use of controlling feeding practices with their young children. This is contrary to other findings (11) but may be because of the low prevalence of eating psychopathology in this sample, so should not be interpreted as evidence that parental eating psychopathology does not relate to maladaptive feeding practices in clinical groups.

The fact that completed questionnaires were required from cohabiting pairs of mothers and fathers in order to be included in this study, and the fairly high levels of SES and years of education after the age of 16, limits the generalisability of this study’s findings to middle class, well-educated parents residing in the same household. Despite this fact, this study is the first to examine predictors of maternal and paternal feeding practices, and research with fathers within the child feeding domain is sparse and has been called for in previous literature (16,18). The non-clinical sample limits the clinical implications of our findings but further work with clinical samples might find psychopathologies to be stronger predictors of feeding practices in parents with clinically significant psychopathology. A strength of this study is the inclusion of cohabiting mother-father pairs, but a by-product of this is the study’s relatively small sample size. A lack of prior research with a similar sample and the same measures prevented us from carrying out a prospective power calculation. However, retrospective power analyses suggest that the effect sizes in our (relatively small) sample range from large (predicting maternal pressure) to small (predicting maternal restriction). Although the self-report nature of this study is not ideal, it was considered suitable for this study and previous work has demonstrated reliability in parental self-reports regarding child
feeding (36) and the CEBQ has been shown to correlate well with children’s food intake (34).

Furthermore, the cross-sectional nature of this study means that causality cannot be inferred and so future longitudinal work would help to elucidate the direction of some of the feeding relationships seen in this study.

Implications for research and practice

Predictors of mothers’ and fathers’ feeding practices were examined for an amalgamated sample of boys and girls and, although there were no significant differences between boys’ and girls’ outcome variables in this study, the study’s sample size was not large enough for an examination of the potentially different models of feeding practices dependent on child gender. However, in view of the literature which states the importance of considering child gender when examining feeding interactions (8,11,16,37), future work should continue to examine the role of child gender in the prediction of parental feeding practices.

The inclusion of pairs of mothers and fathers will broaden the potential implications of this work for professionals working within the fields of nutrition, dietary behaviors and obesity. Given that appropriate levels of control over children’s feeding have been suggested to link to more adaptive child feeding outcomes (2,16,13), professionals can advise families who have concerns about their children’s eating regarding appropriate monitoring of food intake and the reduction of excessively restrictive and pressuring feeding practices. Although the participants in our study were a non-clinical sample, our findings suggest that, where possible, professionals should attempt to establish both maternal and paternal concerns about children’s eating behaviors, given that both mothers and fathers are engaged in frequent eating interactions with their children, and that their concerns relate to more controlling practices in both parents. Furthermore, practitioners should pay attention to child temperament and maternal mental health issues when assessing maternal feeding practices.
Engaging and educating both parents about the importance of sensitive feeding practices may add to the efficacy of prevention and intervention programs.


Table 1: Descriptive and reliability statistics for mothers and fathers on the Child Feeding Questionnaire, Children’s Eating Behaviour Questionnaire, EAS Temperament Survey, Eating Disorder Inventory-2, and Brief Symptom Inventory

<table>
<thead>
<tr>
<th>Survey/Questionnaire</th>
<th>Mothers (n=48)</th>
<th>Fathers (n=48)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Mean (SD)</td>
<td>Cronbach’s alpha</td>
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<tr>
<td><strong>Child Feeding Questionnaire</strong></td>
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<tr>
<td>Monitoring</td>
<td>4.44 (0.75)</td>
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<td>Pressure to Eat</td>
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<tr>
<td>Restriction</td>
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<td><strong>Child Eating Behaviour Questionnaire</strong></td>
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<tr>
<td>Food Responsiveness</td>
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<td>Enjoyment of Food</td>
<td>3.63 (0.62)</td>
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<td>Satiety Responsiveness</td>
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<td>Food Fussiness</td>
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<td>Slowness in Eating</td>
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<td>Emotional Under-Eating</td>
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<td><strong>EAS Temperament Survey</strong></td>
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<td>Shyness</td>
<td>2.48 (0.78)</td>
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<td>Emotionality</td>
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<td>Sociability†</td>
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<td>Activity</td>
<td>4.15 (0.68)</td>
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<td><strong>Eating Disorder Inventory-2</strong></td>
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<tr>
<td>EDI total</td>
<td>16.29 (12.35)</td>
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<td><strong>Brief Symptom Inventory</strong></td>
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</tr>
<tr>
<td>Global Severity Index</td>
<td>53.08 (9.82)</td>
<td>.96</td>
</tr>
</tbody>
</table>

† Analyses revealed that the Cronbach’s alpha coefficient for the EAS improved if question 18 was removed (part of the Sociability subscale). Thus, question 18 was removed and all analyses were conducted without it contributing to the Sociability subscale.
Table 2: Two-tailed Spearman’s correlations between controlling feeding practices (CFQ) and children’s eating behaviors (CEBQ), children’s temperament (EAS), parental eating disorder symptoms (EDI-2), and parental mental health (BSI) for mothers and for fathers. 

<table>
<thead>
<tr>
<th>Child Eating Behaviour Questionnaire</th>
<th>Mothers (n=48)</th>
<th>Fathers (n=48)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food Responsiveness</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enjoyment of Food</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satiety Responsiveness</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Food Fussiness</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slowness in Eating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emotional Over-Eating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emotional Under-Eating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EAS Temperament Survey</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shyness</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emotionality</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sociability</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Activity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eating Disorder Inventory-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDI total</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brief Symptom Inventory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Global Severity Index</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* p ≤ .05, ** p ≤ .01

Mon: Monitoring; PtE: Pressure to Eat; Rest: Restriction.
Table 3: Stepwise regression analyses to predict monitoring, pressure to eat and restriction in mothers (n=48) and in fathers (n=48)

<table>
<thead>
<tr>
<th>Feeding practice predicted</th>
<th>Maternal predictors</th>
<th>Paternal predictors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Model</td>
<td>Model</td>
</tr>
<tr>
<td></td>
<td>R²</td>
<td>F</td>
</tr>
<tr>
<td>Monitoring</td>
<td>Sociability</td>
<td>22.2</td>
</tr>
<tr>
<td></td>
<td>Emotional Under-Eating</td>
<td>-2.35*</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressure to Eat</td>
<td>Emotional Under-Eating</td>
<td>26.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Restriction</td>
<td>Emotional Under-Eating</td>
<td>10.1</td>
</tr>
</tbody>
</table>

*p≤.05, **p≤.01, ***p≤.001, ****p≤.0001