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Abstract

Objective The present study investigated parents' understanding and approaches to providing energydense and nutrient-poor 'extra foods' to pre-school children and explored variation between parents of low and high socio-economic status in relation to these issues. Design We conducted thirteen focus groups. Data were subject to framework analysis. Setting Child-care centres in distinctly socially disadvantaged and socially advantaged areas. Subjects Eighty-eight parents of children aged 3-5 years. Results The three most common terms parents identified to describe foods that are not 'everyday foods' were 'treats', 'sometimes foods' and 'junk'. Parents' perceptions regarding what influences them in providing food to their children included seven sub-themes: (i) the influence of the child; (ii) food-related parenting practices; (iii) health considerations; (iv) food costs and convenience; (v) external factors perceived as influencing their child; (vi) factors related to child care; and (vii) social influences and occasions. Parents' decision-making processes regarding provision of 'extra foods' related to moderation and balance. Parents generally expressed the position that as long as a child is eating healthy foods, then treats are appropriate; and for many parents, this might apply frequently. All groups described the health of their child as an influence, but parents in low socio-economic groups were more likely to describe immediate concerns (dental health, behaviour) in relation to avoiding sugar-dense food or drink. Conclusions The belief that provision of 'extra foods' can be frequent as long as children are eating a healthy balance of foods is factored into parents' decision making. Challenging this belief may be important for reducing the consumption of 'extra foods' by young children.

Keywords

foods, children, junk, qualitative, study, exploring, treats, parents, extra, young, sometimes

Disciplines

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'Treats', 'sometimes foods', 'junk': a qualitative study exploring 'extra foods' with parents of young children

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Abstract

Objective: The present study investigated parents' understanding and approaches to providing energy-dense and nutrient-poor 'extra foods' to pre-school children and explored variation between parents of low and high socio-economic status in relation to these issues.

Design: We conducted thirteen focus groups. Data were subject to framework analysis.

Setting: Child-care centres in distinctly socially disadvantaged and socially advantaged areas.

Subjects: Eighty-eight parents of children aged 3-5 years.

Results: The three most common terms parents identified to describe foods that are not 'everyday foods' were 'treats', 'sometimes foods' and 'junk'. Parents' perceptions regarding what influences them in providing food to their children included seven sub-themes: (i) the influence of the child; (ii) food-related parenting practices; (iii) health considerations; (iv) food costs and convenience; (v) external factors perceived as influencing their child; (vi) factors related to child care; and (vii) social influences and occasions. Parents' decision-making processes regarding provision of 'extra foods' related to moderation and balance. Parents generally expressed the position that as long as a child is eating healthy foods, then treats are appropriate; and for many parents, this might apply frequently. All groups described the health of their child as an influence, but parents in low socio-economic groups were more likely to describe immediate concerns (dental health, behaviour) in relation to avoiding sugar-dense food or drink.

Conclusions: The belief that provision of 'extra foods' can be frequent as long as children are eating a healthy balance of foods is factored into parents' decision making. Challenging this belief may be important for reducing the consumption of 'extra foods' by young children.

Keywords Children Parental views Childhood obesity Snacking

Excessive consumption of energy-dense and nutrient-poor foods by children is associated with poorer diet quality and increased risk of overweight and obesity^(1,2). In the Australian Guide to Healthy Eating, energy-dense and nutrient-poor foods are distinguished from 'core foods' and referred to as 'extra foods' which should provide only 10–20% of young children's daily energy intake. In fact, they comprised 35% of Australian children's daily energy intake in 2007⁽³⁾. Another study of 16–24-month-old Australian children showed that those children with highest 'extra food' intake had significantly lower nutrient intakes, suggesting that these foods displace

nutrients⁽⁴⁾. Observation of Australian pre-school children's lunch boxes also indicated that most were 'overloaded' with 'extra foods'⁽⁵⁾.

While socio-economic status (SES) is associated with weight in Australian pre-school children⁽⁶⁾ and parents' values regarding weight status⁽⁷⁾ and knowledge of food and health⁽⁸⁾, few studies have specifically explored parents' views on 'extra foods' or focused on low-SES parents.

The present study sought to investigate parents' understanding and approaches to providing 'extra foods' to their pre-school children and any variations between parents of low SES (LS) and high SES (HS).

Experimental methods

The specific research questions are listed in Table 1. Focus groups were used as an appropriate means of exploring parents' understanding and perceptions and how they present these ideas among their peers⁽⁹⁾.

Focus groups were organised through child-care centres and comprised parents and carers from the same centre.

Selection of study sites and participants

Child-care centres in two distinctively LS and two distinctively HS local government areas within New South Wales, Australia were identified. The SES of the local government areas was determined using the Socio Economic Index for Areas (SEIFA)⁽¹⁰⁾.

A mix of both pre-schools and long-day-care centres was purposefully selected, as these provide different care and educational arrangements and may attract parents of different social characteristics. All centres in target LS local

Table 1 Research questions addressed in the present study

Research question

- 1. How do parents describe and understand 'extra foods'?
- What factors do parents perceive as influencing them in their provision of 'extra foods'?
- What are parents' decision-making processes regarding their provision of 'extra foods'?
- 4. What do parents think would assist them in limiting their provision of 'extra foods'?
- 5. Do these patterns vary on the basis of parents' socioeconomic status (as assessed by where they live)?

government areas were telephoned and invited to participate. In HS local government areas, centres were invited to participate through one of their routine network meetings. Following an agreed protocol, centre directors recruited parents for focus groups.

Focus group participants comprised parents or carers who were the primary carer of a 3–5-year-old child attending the selected centre and involved in family food provision. All group discussions were conducted in English.

The study was conducted according to the guidelines laid down in the Declaration of Helsinki and all procedures involving human subjects were approved by the Harbour Human Research Ethics Committee and ratified by the University of Sydney Human Research Ethics Committee. Both child-care centres and parents received information about the study and its purpose, and provided written consent to participate. A supermarket voucher and a full colour cookbook were provided as an incentive for parents to participate.

Focus group questions

A set of focus group discussion questions based on the research questions organised into four topic areas, with prompts within each, were formulated (Table 2). A pilot focus group was conducted to check that the questions were understood and elicited the types of information that addressed the research questions.

Conduct of the focus groups

All focus groups were held at child-care centres; refreshments were provided. The introduction emphasised that

Table 2 Schedule for the focus group discussions

Broad topic area	Probes and prompts
Types of food and context	'Out of the three main meals (breakfast, lunch and dinner), which do you find the easiest to prepare for your children? Why?'
	'Tell us about main meals you provide that are not prepared by you?'
	'How easy/difficult is it for you to prepare or find snacks which your children will eat? Is it different when you're out somewhere?'
	'How easy/difficult do you find packing your child's lunch box for pre-school?'
	Alternative for long-day-care centres where food is provided: 'If you pack food for your children when you go out, how easy or difficult do you find that?'
	'Does information/policies from the centre influence your decisions?'
	'Is it easy to get your children to drink water or milk?'
	'What do you think about the foods and drinks other people give your children?'
Influences on food provision	'What influences the types of foods and drinks you give your kids?'
	'How does your child influence your decisions? In what ways?'
	'Among all the competing demands on your time, where does providing food for your child fit?'
3. 'Everyday and	'What term would you use to describe foods that are not everyday foods?'
sometimes foods'	'People talk about "everyday foods" or "sometimes" or "extra foods" when describing what children eat. What would you consider these "sometimes" or "extra foods" to be? What about "everyday foods"?'
	Frequency: 'Getting back to sometimes foods, how often do you think kids should have "sometimes" or "extra foods"? Does it vary by the type? (e.g. chips, lollies, biscuits, muesli bars, jam) Why?'
	'Which drinks would you call "everyday drinks" and which would you consider "sometimes or extra drinks"? How often do you think kids should have "sometimes or extra drinks"?'
	'Are there foods that don't clearly fit in either category?'
	'Some parents find it hard to limit "sometimes" or "extra foods" or drinks. Do you find hard? Why?'
4. Strategies – what could make it easier	'Do you think there is anything that can be done to support parents limiting the amount of "sometimes" or "extra foods" they provide their young children?'
to limit 'extra foods'?	Prompts: 'Whose role is it? How far do you go?'

the study was not about food provided in child care and that discussion was confidential. The two lead investigators (N.A.P., R.L.W.) alternated roles as facilitator and note-taker. The note-taker documented important characteristics of group members not otherwise known, non-verbal behaviour, interaction and other key points to help interpret transcripts. Participants provided written consent for discussions to be digitally recorded. Interviews were transcribed in full, with the identity of groups retained. Digitally recorded files were erased once transcripts were finalised. Participants also provided demographic information.

Coding and analysis

Data were coded and analysed according to the methods of framework analysis and thematic analysis^(9,11), which are summarised in Table 3.

A lead investigator and co-investigator each reviewed half of the transcripts and generated a list of codes. All investigators reviewed the combined lists of codes and agreed on a final set to be applied to the complete data set.

Framework analysis was used to address research questions 2, 3 and 4; this facilitated rigorous, systematic and transparent exploration of similarities and differences between LS and HS groups. Data were summarised into tables for each of the major themes and sub-themes by LS and HS, in order to create summaries for each SES group and a final integrated summary⁽¹¹⁾. The data addressing research question 1, comprising simple descriptions of foods ('extra foods' or 'sometimes foods' and 'everyday foods'), were charted separately for LS and HS groups.

Results

Group and participant characteristics

Thirteen focus groups were conducted, six in LS areas and seven in HS areas, with similar numbers across

Table 3 Framework analysis steps and an explanation of each step

Analysis step	Explanation
1. Familiarisation	Two investigators read the transcripts and field notes repeatedly, recording initial impressions they presented to the team
2. Thematic framework	Themes were identified and a coding scheme was developed by all investigators
3. Indexing	Codes were applied to the whole data set in a systematic way by two investigators who checked for discrepancies in coding before agreeing which code would be applied
4. Charting	Rearranging summaries of the data by code and group in tabular formats with reference to the original transcripts, enabling investigators to view the data across groups and by theme
5. Mapping and interpretation	Charts were used to explore similarities and differences in the discussion from low- and high-SES groups

pre-schools (six) and long-day-care centres (seven). There were eighty-eight participants, forty-four from LS areas and forty-four from HS areas, with three to eleven participants in each group, and an average of seven.

Table 4 provides a summary of the demographic characteristics of participants according to SES group. The groups' SES differences were reflected in participants' education levels (59·1% of LS participants completed Year 12 v. 84·1% of HS participants). Most participants were female (93·2%). The majority (79·5%) of participants recruited from centres located in LS areas resided in this same postcode; 96·7% of HS participants lived in locations with SES matching that of their child-care centre. Participants from LS groups were predominantly from English-speaking backgrounds, with one group containing participants from Aboriginal and Torres Strait Islander backgrounds. Participants from HS groups comprised people from English-speaking backgrounds and people who spoke a language other than English at home.

Data saturation, where no new information was emerging, was achieved within the thirteen groups. The thematic findings are summarised below in relation to the research questions.

How do parents understand and describe 'extra foods'?

In response to the question about what term they would use to describe foods that are not 'everyday foods', parents nominated 'treats', 'sometimes foods' and 'junk', with the term 'treats' most frequently used. The ten foods parents most frequently referred to as examples of 'extra' or 'sometimes foods' were chips, ice cream, lollies,

Table 4 Demographic profile of participants: eighty-eight parents of children aged 3–5 years, New South Wales, Australia

	Low SES (n 44)	High SES (n 44)
Age of participants (years)		
Mean	33.8	38.7
Range	25-47	30-58
Sex		
Female (%)	90.9	95.5
Number of children		
Mean	2.6	2.3
Maximum	6	3
Marital status (%)		
Married	70∙5	97.7
De facto	22.7	0.0
Not married	6.8	2.3
Education (%)		
Year 12 completion	59·1	84·1
Highest level of post-school education (%)		
N/A	25.0	2.3
Certificate	45.5	11.4
Diploma	11.4	25.0
Undergraduate degree	5.0	31.8
Postgraduate degree	6.8	29.5

SES, socio-economic status; N/A, not applicable; SEIFA, Socio Economic Index for Areas

Low SES, SEIFA deciles 2 and 3; high SES, SEIFA decile 10.

chocolate, cakes/doughnuts, sweet biscuits, takeaway (food eaten off the restaurant premises, referred to as 'takeout' in some countries), soft drinks, savoury biscuits and spreads.

When asked to identify foods that do not easily fit into either 'everyday' or 'sometimes' categories, parents discussed sugar and salt, as well as the presence of additives. Examples of foods less easily categorised included breakfast cereals, muesli bars, rice crackers, some flavoured dairy snacks, cheese sticks, some biscuits, and fruit juices.

When prompted to discuss drinks, water and milk were consistently identified as 'everyday' drinks. A smaller number of parents described juice or cordial as an 'everyday' drink. Soft drinks were consistently perceived as 'sometimes' drinks. Some parents reported that they limited their children's consumption of sugar-dense drinks to a 'treat' or special occasion; and less frequently, some mentioned that they did not have sugar-dense drinks in the house. Some parents described diluting soft drinks, cordial and juice, in order to limit consumption: '... and then at dinner, so a little bit of Coke in the water and then milk before bed that is pretty much what they drink' (LS). Others described specific routines or rituals for consumption: 'Friday night is our fizzy night we would have one bottle' (LS).

What factors do parents identify as influencing them in their provision of 'extra foods'?

Parents' perceptions regarding what influenced them in providing food to their children were coded into personal/ dispositional influences or environmental/situational influences. The dispositional influences include: the influence of the child; food-related parenting practices; and health considerations. Situational influences include: food costs and convenience; external factors perceived as influencing their child; factors related to centre-based child care; and social influences and occasions. In describing how frequently they provided 'extra foods', participants' responses were balanced between situational factors, describing situations or contexts when 'sometimes' foods were consumed (12/12), and dispositional factors, particularly their parenting approach (10/12). There was more discussion related to situations in HS groups (6/6) and less among LS groups (4/6).

The seven parent-perceived influences promoting parents' provision of 'extra foods' are described in detail below.

1. Influence of the child

Parents frequently described how their children influence the food they provide, highlighting this as a significant influence. This influence took a number of forms, such as children's taste preferences and fussiness/faddishness, children making decisions on the type of food provided, persistent requests or pestering for certain foods, or general descriptions of children as an influence. Most of the discussion in the majority of groups (11/13) was about how children's taste preferences influenced the food parents provided: 'Your child can influence how you feed them, definitely, depending on their likes and dislikes' (HS).

2. Food-related parenting practices

Parents' food-related parenting approaches were expressed throughout the discussions and were a dominant theme in terms of discussion time and involvement of all participants. The main areas of parenting practices discussed are summarised in Table 5.

Using food as a bribe, treat or reward was frequently discussed (six LS, five HS). It emerged that it was common practice to use food as a reward to encourage children to finish all the food on a plate or to eat certain healthy foods. For example: 'I use a bribe especially for my little boy, three-year-old, if I have to go up the shops... if you are a good boy you can have a lollipop' (HS).

The practice of controlling the home food environment by not having extra foods or drinks available in the house was discussed as a common food-related parenting practice (six LS, five HS), particularly in discussions about 'extra' drinks and some foods (e.g. chocolate and chips).

Parents in a number of groups expressed a fear of overly restricting foods and the potential consequences of this for their children, saying that this might lead to overconsumption of these foods in situations where children are permitted to eat them (e.g. parties). Conversely, being restrictive with certain food was described in ten groups.

In most groups (10/13) there were comments reflecting the divisions of responsibility around food provision, where a parent provides healthful foods and young children decide how much and when they eat^(12,13). In a small number of groups (3/13) the discussions indicated that parents' practices did not reflect this division of responsibility, and children were allowed to determine the range of foods that parents provided. For example: '... people say "sometimes foods" ... realistically it should be all food and they should be able to make the choice and it shouldn't be just a treat' (HS).

3. Health considerations

Overall, health considerations generated a lot of discussion as an influence on the provision of 'extra foods'. Although general healthy eating concerns were discussed most, there were specific concerns about food additives and preservatives, and food allergy and intolerance. General healthy eating concerns related to immediate problems (e.g. dental health, children's behaviour) or general well-being in LS groups: '...health factor is a big thing for us, you know you want to eat food that makes you feel good and gives you energy...' (LS). In some HS groups, participants described being influenced by what they read and often discussed specific nutrients, food additives and specific disease states related to excessive food consumption.

Table 5 Areas of food-related parenting practice*

Area of food-related parenting practice	Description		
Food environment	Parents and carers control what food is available in the home, methods of preparation and selection of where to eat out. Children's preferences are learned through repeated exposure to foods		
Role modelling	Parents and carers are role models for their children. Young children are more likely to eat healthy foods and participate in physical activity through repeated exposure to other people adopting such behaviours, encouragement and familiarisation		
Establishing eating patterns: in/out, cooking, fast food	Eating patterns have changed. People eat out more often, cook less and eat more fast food. Parents can instil an appreciation of cooking, sharing a meal together and enjoying a restaurant meal that takes more than a few minutes to prepare		
Socialisation, bonding and etiquette	Meals are more than nourishment. That parents make the time to share meals with their children is very important for a sense of family. In this way, children learn to socialise, grow stronger family bonds and learn etiquette		
Preservation of positive food culture	Western diet, fast food and heavily processed, nutrient-poor foods are pervasive in our society. Preserving food cultures, or passing on traditions, may help provide children a love of food and assist children to avoid choosing less wholesome options so frequently		
Parenting/caring style relating to food	There are positive and negative parenting styles. Positive parenting styles include being authoritative and responsive with clear divisions of responsibility, where a parent of a child of this age provides a range of healthful foods to their child and the young child selects from these options and decides how much and when he/she eats. Negative styles include overemphasising rewards, treats or special foods; being overly controlling and not responsive to child cues (e.g. 'you must finish all the food on your plate'); not providing healthy snacks in between meals; and using language that creates negative psychological perspective on food, e.g. 'good' and 'bad' foods		

^{*}Adapted from references 12 and 17.

In about half of the groups, parents expressed a desire to provide a variety of foods, implying that 'extra foods' contribute to the variety of foods.

4. Cost and convenience

Cost was reported as a major concern and primary influence in most groups, but particularly in LS groups (six LS, four HS). One group member commented: 'Oh we definitely spend most of our money on food' (LS). Many groups discussed the high costs of specific fruit that their child liked. The belief that healthy food was expensive was reflected in comments by most LS groups (4/6). The convenience of takeaway or packaged foods was often weighed up with cost, with cost determining purchase decisions in LS groups.

The majority of groups (six LS, four HS) commented on convenience, comparing less convenient, healthier options with less healthy, but convenient foods. Fast foods, packaged food and energy-dense and nutrient-poor snacks were considered convenient by LS groups. Packaged foods were seen to reduce time in food preparation and mess, compared with fresh food. Parents described using them when eating on the run: 'Like rice crackers...', 'a convenience thing, usually it is in between meals or you know, as we say we are on the go, so if you are going out to their activities...' (LS).

5. Centre-based child care as an influence

There was a large volume of discussion on centre-based child care as an influence, with the majority (five LS, six HS) considering this as helpful. For example: 'Yeah I actually find it easy because I mean you have got your

sort of rules what you follow'. Parents also noted many activities centres used, that assisted them in providing healthy food for their children. At the same time, it was common for parents to describe child-care food policies as restrictive: 'Well it is hard to find snacks that you can actually pack to come here...' (LS). Parents highlighted restrictions related to allergies (e.g. nut-free policies), the difficulty of providing food variety, the lack of convenient and healthy food options and, for some, the desire to provide a treat: 'So it is really hard to find something special to put in the lunch box' (LS).

6. Parents' perceptions of what influences their children Media advertising was discussed, with parents in most groups (five LS, four HS) referring to the strong effect on their children of promotional characters on packaging, with yoghurt consistently mentioned as an example.

The majority of groups (four LS, six HS) referred to the influence of peers and siblings. In LS groups this was typically considered as positive, but in HS groups this was more mixed: '…like he wants what everyone else has and everybody else has the packet stuff but he can't have that, so yeah' (HS).

The majority of groups (7/13) commented on the influence of large supermarkets on their food purchases, with many comments describing advertising and product placement that targeted young children: 'If you take a child into the supermarket it's got it's eyes fixed on something ... the direct marketing is towards the child, it is not towards the adult' (LS) and '...it is all about making money and the big business' (LS).

7. Social influences – friends, family and occasions
The power of parental role modelling was acknowledged across most groups (five HS, five LS), and considered negative when a parent (mostly fathers and grandparents) consumed a 'treat' food and as a positive when it involved healthier foods.

The influence of friends and social occasions on food provision was discussed almost exclusively in HS groups. Social influences were discussed in positive terms (e.g. new ideas for healthy snack and recipe options) and as creating challenges. For example, some parents found social situations to be challenging when this involved providing foods that they considered inappropriate (e.g. provision of soft drinks or regularly meeting socially at fast-food restaurants). However, most parents felt that some leniency around social occasions with friends was acceptable most of the time.

The range of social occasions with friends included mothers' group meetings, organised activity (e.g. dancing, children's yoga), play dates, barbeques, parties, after church and socialising around children's sport.

What are parents' decision-making processes regarding provision of 'extra foods'?

Parents' decision-making processes regarding provision of 'extra foods' and drinks were not described directly. Rather, their decision-making processes were embedded in responses about food provision and the practical ways in which they balanced competing influences.

While participants referred to seeking a balance of foods across a day or week, they adopted different approaches for different foods or drinks. While participants did not generally have fixed rules about frequency of consumption of 'extra foods', parents in some groups expressed a fixed rule of never offering soft drinks to their children.

Parents were concerned with moderation and balance in their food provision to children, and they described a high degree of thought, time and effort around food provision. They frequently expressed the position that as long as a child is eating healthy foods, then treats are appropriate; and for many parents, this might apply every day or frequently: 'something little as a treat isn't a problem, ... as long as I know that my children are getting good nutritious meals then in between those meals I don't mind them having extra things'. For some parents this balance meant that they avoided being overly restrictive as they feared that restrictions may result in their child being excessively focused on certain foods.

Decisions to provide 'extra foods' or not were also discussed in relation to parents' time management and the value of convenience. Parents spoke about the need to be highly organised due to their work or family commitments, as well as for child behaviour management. Parents across all groups discussed the various strategies they use to prepare for going out or for compensating for

occasions when less healthy foods are eaten (e.g. parties and contact with grandparents). Parents in two HS groups discussed deliberate strategies they used to ensure children are less exposed to 'extra foods' (shop online, not taking children shopping).

What do parents think would assist them in limiting their provision of 'extra foods'?

Parents felt that they are ultimately responsible for the food they provide their children, but that some assistance would be helpful. Although education of children and parents as well as food supply strategies (simpler form of package labelling, food pricing and food product reformulation) dominated discussion, parents described other strategies that reflect the factors influencing them. They also discussed multiple stakeholders including government, the food industry and advertising bodies: 'The majority of it [should be the parent's role] yeah otherwise advertisers basically, and the manufacturers too I suppose...'.

Do these patterns vary according to parents' socio-economic status (as assessed by where they live)?

There were more similarities than differences between LS and HS parents.

Overall, LS and HS parents' understanding of what constitutes an 'extra food' was accurate and in accordance with professional knowledge. The terms used to describe 'extra foods' were also consistent across groups. References to takeaway meal choices were more common in LS groups and they appeared more accepting of these foods. Energy-dense and nutrient-poor takeaway was usually associated with travelling for holidays in HS groups. More parents from LS groups described providing soft drinks, with regular provision discussed only by them. Provision of caffeinated or cola drinks to young children, daily provision of cordial or soft drinks, and diluting soft drinks or cola were mentioned in LS groups.

All parents were concerned about the general health of their children, but parents in LS groups were more likely to describe practical and immediate concerns (dental health, behaviour) in relation to sugar-dense food or drink. Although concern about additives and preservatives was common across groups, the immediate effects on children's behaviour were more commonly mentioned in LS groups. Cost was discussed in most groups, but was a major concern and primary influence for LS parents. Many LS parents expressed the belief that healthy food is more expensive. Convenience was also important for all groups, with parents in LS groups more likely to weight cost over convenience (i.e. providing less pre-packaged snacks, convenient but expensive fruit such as blueberries, strawberries and bananas, and buying takeaway). The influence of friends and social occasions was discussed almost exclusively in HS groups.

Discussion

Parents in all groups used the terms 'treats' or 'sometimes foods', while the term 'extra foods', introduced in the Australian Guide to Healthy Eating, was not used by parents. The mix of responses may reflect the lack of expert consensus on the most appropriate term to use to communicate to consumers about 'extra foods'. However, parents' use of the term 'sometimes foods' may reflect the impact of health programmes conducted through child-care and education settings; and this term seems well accepted by parents of young children, and also understood by pre-school children, according to some parents.

The lack of currency of the Australian Guide to Healthy Eating's term 'extra foods' among parents and the absence of any widely accepted term pose challenges for nutrition education. While the term 'sometimes foods' was well understood, this term is ambiguous and may not be acceptable to older children or adults generally. The term 'treat' is problematic from a nutrition education or health professional perspective, as it has a positive connotation. The absence of a precise descriptor is apparent in other English-language countries. The UK's national dietary guidelines refer to foods high in fat, sugar and salt⁽¹⁵⁾ and in the USA the term 'extra foods' is used to refer to foods high in sugar and fat and low in essential nutrients.

Parents were found to have a good understanding of 'extra foods' and were generally able to identify them. Parents found it difficult to classify some foods, particularly where there are inconsistencies in the amounts of sugar and salt between different products in the same category. Total energy or fat content of foods was not identified by parents as a way of determining 'extra foods'. The focus on sugar was consistent with other findings⁽¹⁶⁾.

The study shows that juice and cordial were accepted as 'everyday' drinks, while soft drinks were not. The consistent negative perceptions of soft drinks suggest that parents could be responsive to strategies to further reduce sugar-dense drink consumption. The findings suggest that parents may not always be aware of young children's dislike of new foods and preference for high-sugar, high-salt foods as a normal developmental issue, and that nutrition information and appropriate parenting responses presented according to developmental stage may be valuable (12,17).

The observed differences between LS and HS groups in their use of language and approach to health considerations is highly consistent with findings from another Australian qualitative study exploring socio-economic differences in parental knowledge of food and health⁽⁸⁾. The minimal mention and concern about weight status is also consistent with research showing that parents underestimate their children's weight status⁽¹⁸⁾.

Given that most groups discussed food allergy or intolerance, it may be that the present study disproportionately attracted parents of children with food

allergies or intolerance. It is also possible these results reflect general views in a population where food allergy and food intolerance are relatively prevalent (6% and 5–20% respectively in 0–5-year-olds⁽¹⁹⁾) and the media attention related to research on these topics^(20,21).

Parents expressed the belief that provision of 'extra foods' can be frequent, as long as children are eating a healthy balance of foods. The idea of reducing consumption of 'extra foods' has received little attention in Australia, with the exception of a short one-off campaign to promote water and reduce sugary drink consumption in New South Wales in 2008⁽²²⁾. Consideration should be given to specifically addressing the issue of excessive provision and consumption of 'extra foods'.

In the present study the ability to explore individuals' precise motivations was limited as the analysis was conducted at group level. However, the level of participant interaction means that we were confident we captured the full range of ideas. The method of analysis allowed exploration of subgroups in a rigorous, transparent and reproducible way, and increases confidence in findings relating to similarities and differences between LS and HS groups. The focus group method means that social desirability bias may influence the results; however, the strength is that these groups provide access to how people display their social knowledge, as well as the content of that knowledge. As groups were not conducted in rural areas or with culturally and linguistically diverse groups, the findings may not be generalisable to these population segments.

Conclusions and implications

The range of influences on parents' food provision indicates the value of multi-setting, multi-strategic interventions to reduce the consumption of 'extra foods'. There is specific scope for strategies promoting food-related parenting practices appropriate to developmental stages. The common belief that provision of these foods can be frequent as long as children are eating a healthy balance of foods suggests that challenging this belief may be necessary. The lack of vocabulary to clearly refer to 'extra foods' suggests that formative research on terms that are acceptable to parents and children would be valuable. Health promotion campaigns and programmes should promote messages and actions that focus on reducing the consumption of energy-dense and nutrient-poor foods.

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