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Gross for kids but good for parents: differing messages in advertisements for the same products

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Keywords
Gross, for, kids, good, for, parents, differing, messages, advertisements, for, same, products

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Gross for kids but good for parents: differing messages in advertisements for the same products

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Abstract
Objectives: There has been surprisingly little research into the effects of food advertising on parents' perception of commonly consumed children's food items, although the available research suggests that parents may find nutritional claims in these advertisements confusing. The purpose of the present study was to investigate parents' perceptions of branded snack foods targeted at children, and the extent to which these perceptions are influenced by advertising messages.
Design: Using an intercept survey, participants were shown either adult-targeted or child-targeted advertisements for the same food products.
Setting: Central business district of a major Australian city.
Subjects: One hundred adults, mean age 40 years.
Results: The study results suggest that: (1) adults' perceptions of advertised food products and, most importantly, purchase intentions for those products differ according to the version of the advertisement seen (for three of the products, 42–54% would buy the product after seeing the child version compared with 82–84% after seeing the adult version); and (2) adults clearly perceive distinctly different messages in advertisements for the same products which are targeting parents vs. those targeting children (e.g. for three of the products, 74–92% perceived that the adult version of the advertisement suggested the food was nutritionally beneficial compared with 2–14% perceiving this for the child version).
Conclusions: It is clear that the messages conveyed to children about specific foods are quite different to the messages conveyed to adults – and importantly parents – about the same foods.

Adequate nutrition during childhood and adolescence is essential for growth and development, health and well-being. A child's eating behaviours are established during childhood and may follow them into adulthood.

The growing epidemic of childhood overweight and obesity is a major public health concern in both developed and developing countries. Currently 19–23% of Australian children and adolescents are overweight or obese, with authorities estimating that about 6% of Australian children and adolescents are classified as clinically obese. Overweight children are far more likely to become obese as adults.

Research shows that the majority of children consume insufficient amounts of fruit, vegetables, dietary fibre, and milk and meat products; and consume higher than recommended amounts of calorie-dense and high-fat foods.

A variety of factors have been reported to influence food choice, including physiological, psychological, social, environmental and cultural factors. Television advertising of foods aimed at children has been highlighted as a factor in the increasing levels of childhood obesity, with studies across different countries demonstrating that food advertisements consistently promote high-fat and high-sugar foods. However, there is limited evidence of a direct link between food advertisements aimed at children and their eating patterns – primarily because, at least for young children, while food preferences may be influenced by child-targeted advertising, food purchase decisions are generally made by parents.

Children's eating behaviours are strongly influenced by the family food environment, including parental food preferences and beliefs, children's food exposure, and parent–child interrelations surrounding food. Media exposure has been discussed above. Parents have both direct and indirect influences over children's food consumption: direct influences include control over food (i.e. what foods are offered) and controls using food (i.e. food-related rewards and punishments); indirect...
influences include exposure to different types of foods and to parental food habits and preferences\(^24\)--\(^26\).

A UK study of children's food requests revealed that 39% of the products requested had been advertised within a six-month period leading up to the questionnaire\(^27\); and a US experimental study reported that pre-school children exposed to food advertising within a videotaped programme were more likely to choose advertised products\(^28\).

It is important to note that the majority of the current literature focuses on the influence of advertising on children, with little attention paid to parents. However, as discussed above, parents play a central role in children's eating habits as the deciders and purchasers in the family unit\(^29\). This is particularly the case for younger children, as parents play a major role in educating and providing their children with healthy food choices during the formative years of childhood\(^30\).

There has been surprisingly little research into the effects of food advertising on parents' perception of commonly consumed children's food items, although the available research suggests that parents may find nutritional claims in these advertisements confusing\(^31\).

The purpose of the present study was to investigate the extent to which parents' perceptions of branded snack foods targeted at children are influenced by advertising messages. Specifically, we were interested in: (1) whether parents' perceptions of the specific foods and their resultant purchase intentions differed as a result of exposure to child-targeted vs. adult-targeted advertisements for the same products; and (2) whether parents perceived different messages in the child-targeted vs. adult-targeted advertisements.

Magazine advertising was chosen above all other media because it enables greater selectivity of the target audience\(^32\). By using magazine advertising we were able to identify advertisements for children's food that were clearly targeted at parents and advertisements for the same foods that were clearly targeted at children.

Method

Stimuli

Magazine advertisements were monitored by manually examining all issues of the top 30 magazines in Australia based on Audit Bureau of Circulation data from January to June 2004, but limited to magazines that advertised food or beverage products. The stimuli for the study were advertisements for food products targeted at children, taken from current issues of high-circulation Australian magazines. The selection criteria for advertisements were that the same product was advertised in both a children's magazine and an adult magazine during the same month, using a different advertisement. The four advertised products were: Yoplait 'Go-Gurts' (a single-serving yoghurt product); Dairy Whip 'Whipped Cream' (a long-life canned dairy product); Kellogg's 'Coco Pops' (a chocolate-flavoured rice-based breakfast cereal); and Kellogg's 'LCMs' (a rice-based confectionery/snack bar).

Yoplait 'Go-Gurts'

- Child version: This one-page ad was found in \textit{K-Zone} (February 2005). The ad presents an animated octopus with slime oozing out of its orifices. The ad reads 'Get grossed out with Yoplait Go-Gurts' and contains a series of headlines including 'Totally gross world records: Learn disgusting feats such as how far one man can shoot marshmallows out of his nose' and 'Suck Guts: Totally sick ways to eat yoghurt'.
- Adult version: This one-page ad was found in \textit{Australian Good Taste} (February 2005), and also appeared in the \textit{Australian Family Circle}, \textit{Super Food Ideas}, \textit{New Idea} and \textit{Woman's Day}. The advertisement pictures three primary-school children running with the product in their hands, as well as pack shots of the product. The text explains that the product 'contains no fruit lumps or pips ... they'll never know it's full of fruit and good for them' and a sidebar lists 'Calcium for strong teeth and healthy bones; No preservatives and no artificial flavours; Can be frozen or refrigerated for a cool treat; The perfect snack on the go – kids can play while they eat! Portable and convenient – no mess no fuss; 97% fat-free'.

Dairy Whip 'Whipped Cream'

- Child version: This one-page ad was found in \textit{K-Zone} magazine (January 2005), and also appeared in \textit{Total Girl}. The ad presents photo images of the 'Chocolate La Mousse' and 'Dairy Whip Cream' cans along with pictures of iced chocolate, ice-cream sundae and cakes. The ad reads 'make your dessert more WICKED than ever with DAIRY WHIP!', and presents recipe suggestions on how to use the product whilst encouraging readers to 'use your imagination and create your own awesome recipe!'
- Adult version: This one-page ad was found in \textit{New Idea} magazine (January 2005). The ad presents a picture of the product being home-delivered along with milk in a crate. The advertisement reads 'Real cream fresh daily'. At the bottom of the advertisement is written 'Made from real farm fresh cream, Dairy Whip is ultra pasteurized to keep fresh longer. Plus it's 20% lower in fat than regular thickened cream containing 35% fat. So you can enjoy lashings of it whenever you please. Dairy whip. Real cream. Real easy'.

Kellogg’s ‘Coco Pops’

- Child version: This one-page ad was found in \textit{Total Girl} magazine (May 2005), and also appeared in \textit{K-Zone}.
The ad presents the cartoon images of the Coco Pops Gang holding a scroll explaining ‘The Legend of Cocotopia’ and encourages readers to visit the gang at www.cocopops.com.au. There is also a small picture of the product at the bottom.

- Adult version: This one-page ad was found in New Idea magazine (May 2005), and also appeared in Woman’s Day. The advertisement presents a small picture of the product with large text reading ‘The only artificial colours are printed on the box’. The ad explains that the product has a balanced mix of eight essential vitamins and minerals including ‘B1, B2 and niacin, all of which help release energy in food’, ‘calcium for strong bones, vitamin C for healthy teeth and gums, plus iron, zinc and folate, all of which support healthy growth’.
- Child version: This two-page ad was found in K-Zone magazine (May 2005), and also appeared in Total Girl. The ad presents cartoon images of four primary-school children, wearing LCM wrappers as clothing, playing a game. The ad presents the rule of a handball game down the left side, and explains the point system down the right side. Four varieties of the products boxes are presented at the bottom, with a spiel encouraging children to visit K-zone’s website for ‘cool recess challenges, quizzes & puzzles, as well as online handball’
- Adult version: This one-page ad was found in Better Homes & Gardens magazine (May 2005), and also appeared in Super Food Ideas. The ad presents a lunch box containing a salad sandwich, fruit and an LCM bar. It asks the reader to ‘THINK OUTSIDE THE BOX’. The text underneath advises the reader that LCMs give energy to refuel children after a morning class; that LCMs are ‘made from the goodness of puffed rice’ and are ‘free from artificial colours’; that ‘a variety of foods is recommended by experts to achieve a balanced diet which meets daily nutrition requirements. Adding snacks to the lunchbox helps to increase the variety of a child’s diet’; and, lastly, that LCMs are ‘just the right size to slip into the lunchbox ... fits into small hands for a no-mess recess ... give kids the energy without spoiling their appetite for the next meal of the day’. Underneath is a picture of two of the varieties of the product.

Participants
The participants were 100 adults aged between 18 and 74 years (mean: 37.6 years, standard deviation: 12.9 years). Overall, 62% of the participants were female; 64% had one or more children; and 55% had some post-secondary education. Participants were recruited via a shopping centre intercept at a large regional shopping centre in New South Wales (with permission from the shopping centre management).

Methodology
Potential participants were approached at an entry to the shopping centre and asked if they would be interested in participating in the study. Those agreeing to participate were randomly allocated to one of two versions of the questionnaire: version one included the four advertisements from the children’s magazines, and version two the four advertisements from the adult magazines. Participants viewed each advertisement in turn and were asked three questions about the product and seven questions about the advertisement; at the end of the survey they answered some brief demographic questions.

The questions about the product were: (1) ‘Would you purchase this product for yourself?; (2) ‘Would you purchase this product for your children? (Or hypothetically, if you had children, would you purchase this product for them?)’; (3) ‘Do you think this product is healthy?’ The questions about the advertisements asked participants whether they thought the advertisement’s message was that the product was: (1) Nutritionally beneficial; (2) Healthy; (3) Tasty; (4) Fun; (5) Exciting and new; (6) Something that would make one popular; and (7) Convenient. All questions had a ‘yes’ or ‘no’ response format.

Results
There were no statistically significant differences between the two groups in terms of age (mean: 40.0 vs. 35.3 years), gender (62% female in both groups), number of children (average 1.9 children in both groups) or level of education (52% vs. 58% post-secondary).

Advertisement 1: Yoplait ‘Go-Gurt’
The product
As shown in Table 1, respondents were unlikely to perceive the product as one they would purchase for themselves to consume, regardless of which advertisement they viewed (8% and 6%, respectively). However, their likelihood of purchasing the product for their children varied substantially depending on the version of the advertisement they saw, with 84% who saw the adult’s version stating that they would purchase the product for their child compared with 42% of those who saw the child’s version ($\chi^2 = 18.92, P < 0.000)$. This was also reflected in their perceptions of the product itself; 82% of those who saw the adult version perceived the product to be healthy while only 38% of those who saw the child’s version had this perception ($\chi^2 = 20.17, P < 0.000$).
The advertisement

As shown in Table 1, there were significant differences in respondents’ perceptions of the messages in the advertisement across five of the message variables. Those who saw the adult’s version were more likely to perceive that the advertisement suggested the product was nutritionally beneficial (92% vs. 8%, $\chi^2 = 70.56, P = 0.000$), healthy (94% vs. 10%, $\chi^2 = 70.67, P < 0.000$), tasty (92% vs. 46%, $\chi^2 = 24.73, P = 0.000$) and convenient (98% vs. 42%, $\chi^2 = 37.33, P = 0.000$). Conversely, those who saw the child’s version were more likely to perceive that the advertisement suggested the product was exciting (76% vs. 56%, $\chi^2 = 4.46, P = 0.03$).

Advert 2: Dairy Whip ‘Whipped Cream’

The product

As shown in Table 2, over 60% of respondents perceived the product as one they would purchase for themselves to consume, regardless of which advertisement they viewed (68% and 62%, respectively). However, their likelihood of purchasing the product for their children varied substantially depending on the version of the advertisement they saw, with 28% who saw the adult version stating that they would purchase the product for their child compared with 66% of those who saw the child version ($\chi^2 = 14.49, P < 0.000$).

The advertisement

As shown in Table 2, there were significant differences in respondents’ perception of the messages in the advertisements between the two conditions across all seven of the message variables. Those who saw the adult version were more likely to perceive that the advertisement suggested the product was nutritionally beneficial (26% vs. 2%, $\chi^2 = 11.96, P < 0.000$) and convenient (98% vs. 86%, $\chi^2 = 4.89, P < 0.03$). Conversely, those who saw the child version were more likely to perceive that the advertisement suggested the product was healthy (74% vs. 30%, $\chi^2 = 14.58, P < 0.000$), tasty (90% vs. 74%, $\chi^2 = 4.34, P < 0.03$), fun (94% vs. 22%, $\chi^2 = 55.73, P < 0.000$), exciting (76% vs. 12%, $\chi^2 = 44.66, P < 0.000$) and would make one popular (38% vs. 10%, $\chi^2 = 10.75, P < 0.001$).

Advert 3: Kellogg’s ‘Coco Pops’

The product

As shown in Table 3, a greater proportion of respondents who saw the adult version perceived the product as one they would purchase for their children (82% vs. 60%, $\chi^2 = 5.88, P < 0.01$).

The advertisement

As shown in Table 3, there were significant differences in respondents’ perceptions of the messages in the advertisements between the two conditions across five of the message variables. A greater proportion of those who saw the adult version perceived that the advertisement suggested the product was nutritionally beneficial (90% vs. 24%, $\chi^2 = 44.43, P = 0.000$), healthy (92% vs. 36%,
suggest the product was exciting (84% vs. 32%, $\chi^2 = 7.86, P = 0.005$) and convenient (80% vs. 60%, $\chi^2 = 4.76, P = 0.002$). Conversely, a greater proportion of those who saw the child’s version perceived that the advertisement suggested the product was exciting (80% vs. 22%, $\chi^2 = 41.22, P = 0.000$).

**Advertisement 4: Kellogg’s ‘LCMs’**

The product
As shown in Table 4, a significantly greater proportion of those who saw the adult version stated that they would purchase the product for their child to consume (82% vs. 54%, $\chi^2 = 9.01, P < 0.002$).

The advertisement
As shown in Table 4, there were significant differences in respondents’ perceptions of the messages in the advertisements between the two conditions across six of the message variables. A greater proportion of those who saw the adult version perceived that the advertisement suggested the product was nutritionally beneficial (74% vs. 14%, $\chi^2 = 36.53, P = 0.000$), healthy (82% vs. 26%, $\chi^2 = 31.56, P = 0.000$), tasty (90% vs. 72%, $\chi^2 = 5.26, P = 0.02$), and convenient (98% vs. 76%, $\chi^2 = 10.7, P = 0.001$). Conversely, a greater proportion of those who saw the child’s version perceived that the advertisement suggested the product was exciting (84% vs. 32%, $\chi^2 = 27.75, P = 0.000$) and would make one popular (78% vs. 56%, $\chi^2 = 5.47, P < 0.02$).

Discussion
The results of this study suggest that: (1) adults’ perceptions of advertised food products and purchase intentions for those products differ according to the version of the advertisement seen; and (2) adults clearly perceive distinctly different messages in advertisements for the same products which are targeting parents vs. those targeting children.

With regard to perceptions of food products and associated purchase intentions, the most interesting aspect of the results is the differences in purchase intentions in response to the two ad types, with parents significantly more likely to purchase foods after seeing the adult’s version of the ads (or, conversely, less likely to purchase them after seeing the children’s versions) for three of the four food products (Go-Gurts, Coco Pops and LCMs). Adults were also more likely to perceive these foods as healthy if they read the adult version of the advertisement.

The results for Dairy Whip differ from the other three products – this may suggest that if parents see advertisements targeted at children for products that they do not traditionally associate with children, they may be more likely to purchase it for their child.* In contrast to the other types of advertisements and products, it would be in the interest of marketers to have parents see these children’s advertisements.

With regard to the perceived messages, there was a clear pattern of the adult-targeted advertisements portraying the foods as nutritious, healthy, tasty and convenient (except for Dairy Whip); and the child-targeted advertisements portraying them as fun, exciting products that would make the consumer popular. These different messages are consistent with what one might expect to be the food values of the two groups – adults and children – with adults (parents) valuing foods for children that are nutritionally beneficial, healthy, tasty and convenient; and children valuing fun, exciting foods that may make them popular. Advertisers are obviously successfully tapping into these values with messages that selectively appeal to these values, and in the long run may also be reinforcing these values regarding what is important in food. The messages in the children’s/adult’s advertisements are not necessarily incompatible however – in the same way that you may try to make vegetables ‘fun’ for children by making faces with sprouts for hair, etc.

However, these results do suggest that it is in the marketers’ interest to target children in a more ‘private’ way (i.e. via media which parents are unlikely to be exposed to) and magazines seem to provide a way to do this that television cannot provide. This is particularly so as parents seem unaware of the amount of advertising in children’s magazines. It is reasonable to assume that parents are more likely to see and hear advertisements on television, even those aired during children’s programming, than those in children’s magazines. It is concerning that parents have differing perceptions of products when

![Table 4 Kellogg’s ‘LCMs’](image-url)

* As pointed out by an anonymous reviewer, the fact that this is an ‘indulgence’ product – targeted at, and consumed by, both adults and children – could explain the difference in results between these and the other products.
they are ‘kept away’ from images and messages that their children are exposed to. The importance of this is underscored by a recent study which found that the presence of children in a household is associated with increased consumption of high-fat and other unhealthy snack foods among adults35, which suggests that advertising that effectively targets children has the potential to affect the diet of all family members.

These results illustrate just how much perceptions of food products are determined by advertising messages. It is concerning that if advertising messages are not nutritionally accurate, or promote a biased account of nutritional benefit and ‘healthiness’, children may be exposed to food that parents would not choose for their children if they had the full information given in an unbiased way.

Limitations
The use of a between-subjects design means that we cannot directly compare the effect of different advertisement types on an individual’s purchase intentions or interpretations of the advertisement’s message. However, the alternative, a within-subjects design, would have had considerable potential for confounding as respondents would have been interpreting the second advertisement exposed in the context of the information in the first advertisement; and would have been inconsistent with the real-life situation in which individuals are likely to be exposed to only one advertisement for a given product.

Due to the nature of the study – an intercept survey conducted in a central business district – which necessitated keeping the questionnaire length as short as possible, there were a number of questions we did not ask. For example, we did not ask about respondents’ potential mediators such as pre-existing brand awareness or brand attitudes; prior exposure to the advertisements; or purchase habits in relation to the advertised brands or product types. Further, as we did not have a control group and did not measure pre-exposure effects, it is likely that some of the responses reflected these pre-existing attitudes (e.g. Coco Pops had received negative publicity about its advertising campaigns); although there is no reason to suppose that these would have a differential effect across the two conditions.

Finally, the use of a convenience sample and the fact that the study was conducted in a shopping centre in a regional Australian city mean that the results may not be generalisable to people in different regions or countries; although collecting the data at the region’s major shopping centre increases the likelihood that the sample was representative of grocery shoppers in this region. We did not include being a parent as an inclusion criterion for participation in the study, which could have been a limitation – particularly as one of the questions directly asked respondents about purchase intentions for their children or, for those who did not have children, whether they would if they had children. Thus, analyses were conducted to determine whether the responses from parents differed from non-parents. Of the 80 items (i.e. 10 questions for each of eight ads), there were only five that differed between parents and non-parents (in all cases, the child version). Two of these related to perceptions that the advertisement implied consuming the advertised food would make one popular (Go-Gurts: $\chi^2 = 6.44, P = 0.01$; Coco Pops: $\chi^2 = 9.91, P = 0.002$), two to perceptions of Go-Gurts (healthy: $\chi^2 = 5.99, P = 0.03$; nutritionally beneficial: $\chi^2 = 6.20, P = 0.04$) and one to willingness to purchase Coco Pops for a child ($\chi^2 = 5.99, P = 0.05$).

Future research
Our results do not actually indicate whether seeing a children’s ad in the absence of viewing an adult ad would reduce purchase intention compared with seeing no advertising. Future research could ask ‘would this ad make you more likely to purchase the product’ rather than just ‘how likely are you to purchase the product’. Future research could also include showing both adult- and child-targeted advertisements to the same respondents, and comparing their responses with those who only see the adult ad. We also note that adults may be so accustomed to advertisers targeting their ‘healthy’ food values, and making use of anything that could be called healthy about a product, that if they see an advertisement which does not do this they may presume that it is extremely unhealthy, and hence reduce purchase intention. Alternatively, it is possible that the reduced purchase intention in response to child-targeted advertisements is related to adults’ philosophical objections to advertisers targeting children; or that advertisements which are visually designed to appeal to children are simply unappealing to adults. These potential explanations for the effects found could be explored in future research.

Conclusion
In conclusion, it is clear that the messages conveyed to children about specific foods are quite different to the messages conveyed to adults, and importantly parents, about the same foods. This has important implications for those concerned with the monitoring and regulation of food advertising. Previous research has shown that food advertising can be effective in persuading parents that unhealthy food products are actually good for their children34, generally by focusing on one ‘healthy’ ingredient (such as calcium), and there has been widespread public condemnation (led by the Parents Jury) of such deceptive advertising practices and calls for a ban on junk food advertising to children35. However, this strategy of attempting to deceive consumers into perceiving a food...
as healthy, rather than actually modifying its nutritional content, is not exclusive to child-targeted foods – in the words of an Advertising Federation of Australia executive, ‘...the trend is to tie products to healthy pursuits. Even in ads for burgers or pizza, you increasingly see people playing sports, working out or playing at the beach. They’re working up an appetite – and burning up calories’. There is a clear need to develop appropriate strategies to increase the awareness of parents and, equally importantly, regulators and other stakeholders of the contradictory messages being conveyed; and to provide young people and their caregivers with the necessary media literacy skills to counter such misleading messages.

These findings also have important implications for those directly involved in developing social marketing campaigns aimed at improving the nutritional intake of children and young people. Social marketers could learn much from commercial marketers about the development of messages that are appealing to the target audience and the selection of communication channels that reach these audiences. However, an important caveat on this recommendation is that, in developing messages for the different target audiences, we do not fall into the trap of doing what we are suggesting commercial marketers should not do but ensure that all messages are honest, accurate and conveyed in an ethical fashion.

References


