We used a variety of data sources and methods to provide a comprehensive analysis of the U.S. fast food market. Through publicly available data, we thoroughly document and evaluate the menus and marketing practices of the nation's largest fast food restaurants. Whenever possible, we used the same methods as our 2010 report, "Fast Food FACTS: Evaluation of the nutritional quality and marketing of fast food to youth,"¹ to measure changes over time.

Our methods include analyzing the nutritional quality of restaurant menu items; analyzing purchased data on media exposure and spending from syndicated sources (i.e., Nielsen and comScore); conducting content analyses of advertisements on children's TV; and evaluating marketing to youth on company websites, internet display advertising, social media, and mobile marketing. We supplement these analyses with information collected from company websites, monitoring of business and consumer press, and numerous visits to fast food restaurants and calls to their consumer helplines. These methods are described in detail in the following sections.

We did not have access to food industry proprietary documents, including privately commissioned market research, media and marketing plans, or other strategic documents. Therefore, we do not attempt to interpret fast food companies' goals or objectives for their marketing practices. Rather, we provide transparent documentation of: 1) the nutritional quality of menu items offered by fast food restaurants; 2) the extent of children's and adolescents' exposure to common forms of fast food marketing, including exposure by black and Hispanic youth; 3) the specific products promoted and marketing messages conveyed in traditional and digital media; and 4) changes in nutrition and marketing that occurred from 2009 to 2013.

Scope of the analysis

To narrow down the list of restaurants to evaluate, we obtained 2012 sales data for the 50 largest fast food restaurants in the United States using figures estimated for *QSR Magazine*.² We also used Nielsen data to identify fast food restaurants with advertising spending on national TV in 2012. From these analyses, we identified 18 restaurants that are the focus of this report. These restaurants include the 12 restaurants highlighted in the 2010 Fast Food FACTS report, as well as six additional restaurants that met at least one of two criteria: 1) ranked among the top-15 in 2012 U.S. sales, or 2) had child-targeted messages on their websites and national TV advertising. We also conducted a more limited analysis of the 25 restaurants with the most advertising spending on national TV in 2012.

The data reflect marketing practices used to promote fast food restaurants from January 1, 2008 through July 30,

2013. Most of the analyses assess practices during the 2012 calendar year and compare them to 2009, although time frames available for analysis varied by type of data. Specific time frames examined are described in the following Methods sections. However, fast food menu items and marketing practices change continuously. The information presented in this report does not include any new products or product reformulations, advertising campaigns, website redesigns, or other marketing programs introduced after July 2013.

Fast food menus and nutritional quality

We analyzed the menus of 12 of the 18 restaurants examined in this report. The six pizza and coffee restaurants were excluded due to the predominance of one or two food item categories on those menus (e.g. pizza at pizza restaurants and snack items and coffee beverages at coffee restaurants), which limited our ability to compare these restaurants' menus to more traditional fast food restaurants. We obtained lists of all menu items and corresponding nutrition information for the 12 restaurants from menus posted on company websites as of February 15, 2013. We used these menus to conduct more detailed nutrition analyses of the full menus at the top-five traditional fast food restaurants (McDonald's, Subway, Burger King, Wendy's, and Taco Bell) and special menus (i.e., dollar/ value and healthy menus) available at the 12 restaurants. These menus were also used for the nutrition analyses of advertised products, described in more detail later.

Food categories

Fast food restaurants typically have extensive menus with numerous types of foods. To systematically evaluate these menus, we defined **food categories** to describe different types of menu items. Menu items were assigned to one of 15 food categories according to whether they appeared on a special menu for children (i.e., **kids' meal** or menu) or the main menu, the eating occasion when foods are typically consumed (breakfast, lunch/dinner, or snack), and whether they are typically consumed alone, as a main dish, or as part of a meal in addition to a main dish (i.e., sides). We also classified types of beverages separately from foods. We defined beverages as any item that could be consumed using a straw.

- Menu items offered in kids' meals were classified as a kids' main dish, kids' side, or kids' beverage.
- Items traditionally consumed in the morning were classified as breakfast main dishes and breakfast sides (e.g., egg dishes, pancakes, and hash browns). Breakfast meals contained more than one breakfast item served together as one menu item, such as a pancake platter with sausage.
- Items traditionally consumed as the main item in a lunch or dinner meal were classified as **lunch/dinner main dishes**.

- Lunch/dinner sides and side beverages are items typically consumed in addition to a main dish at lunch or dinner. Common sides include french fries and fruit; common side beverages include soft drinks, milk, and water.
- Menu items that could be consumed on their own at nonmeal times or after a meal were classified as **snacks** and **snack beverages**. Snack beverages include ice cream and other frozen beverages; and snacks include all dessert items as well as sweet baked goods, such as donuts and muffins.
- Due to the number of options available on many of the restaurant menus, **coffee beverages** were also classified as a separate food category and include lattes, cappuccinos, and mochas. Frozen coffee beverages (e.g., frappuccinos) were classified as snack beverages.

Special menus

In addition to individual menu items, many restaurants also promote a specific subset of items as a **special menu**. In addition to kids' menus, many restaurants also promote **dollar/value menus**, or groups of individual items offered at a special price (e.g., Dollar, Right Price Right Size, \$5 Footlongs menus). Some restaurants also promote **healthy menus**, or groups of items designated as healthier in some way (e.g., low(er) in calories). Researchers identified all special menus presented on company websites as of February 2013. We did not categorize limited-time pricing promotions for individual menu items as special menus.

Menu standardization

All restaurants in our analyses reported total grams or ounces, calories, fat, saturated fat, trans fat, sugar, sodium, protein, and fiber per menu item or serving except Wendy's and Chick-fil-A, which did not report grams. Items on the kids' menu at Chick-fil-A were weighed manually to obtain grams. One-half of Wendy's menu items were purchased and manually weighed. Third-party nutrition websites were used to obtain gram weights for the remaining items on Wendy's full menu. The accuracy of the weights provided by these websites was verified using weights obtained for the purchased products. Fruit, vegetable, and nut content estimations were based on our 2010 data.

To standardize menu items across different chains, we made several adjustments to the items as reported by some restaurants. Following are the general principles applied to all menus:

- Only regular menu items are included. If an item was listed as a regional or limited-time item, it was not included unless the item was also promoted in national TV advertising.
- Regular menu items and kids' menu items are listed separately. If an item was only available on the kids' menu, it was not included in the regular menu analysis. Kids' items

that were also available for sale on the regular menu (e.g., a regular hamburger or 16-ounce drink) were included on both menus.

- All sizes of all items are listed as separate menu items, including drinks, sides, and sandwiches.
- All individual menu items are listed separately. If a restaurant sold a combination of items as a meal (e.g., a kids' meal), those combinations were not included as individual menu items unless they also were listed on the restaurants' website menus as one item (e.g., pancakes and sausage).
- Menu items with multiple components listed separately are combined into one item. Examples include salads with dressing and croutons and chicken nuggets with sauce. If the item had a default combination (i.e., specific extra items that are automatically included with the main item), the default combination was used. If the item was typically offered with different choices (e.g., type of salad dressing or sauce), the item was reported as two separate items for both the healthiest and least nutritious options according to NPI score (e.g., chicken nuggets with barbecue sauce and chicken nuggets with ranch sauce).
- Menu items are listed twice if consumers typically customize them by choosing individual ingredients (e.g., deli sandwiches), including the most and least nutritious version of the item according to NPI score. For example, a deli sandwich with whole-grain bread, no cheese, and no sauce, as well as the same sandwich with a higher-calorie bread, cheese, and mayonnaise are listed separately.
- Both the default and healthier options are listed as separate menu items if the restaurant provided an option on its menu to improve the overall nutritional quality of a specific item, such as a sandwich without the usual mayonnaise or an egg dish made with egg whites.
- A menu item is converted to a one-person portion size when listed as one item to be consumed by more than one person (e.g., "sharable size"). Items indicated as "family-sized" were divided by four. When items did not have a suggested number of servings, we used another menu item that was indicated as a one-person item to identify an appropriate per-person portion.
- A one-person portion size is calculated by combining menu items listed individually that are typically consumed in multiples (e.g., chicken pieces). If the restaurant promoted meals containing multiple pieces of the same item, those meal suggestions were used to calculate a one-person portion of the menu item. If the items were typically sold in a family size or bucket, the criteria cited above were used to calculate the one-person portion.

Nutritional quality

We evaluated the nutritional quality of kids' meals and individual menu items on restaurant menus according to several criteria. The **Nutrition Profiling Index (NPI)** score provided an evaluation of the overall nutritional composition of individual menu items. The NPI score is based on the nutrition rating system established by Rayner and colleagues for the Food Standards Agency in the United Kingdom.³ To identify reasonable portion sizes for children and adolescents, we also compared **total calories** and **total sodium** for kids' meals and regular menu items against standards established by the Institute of Medicine's (IOM) School Meal guidelines.⁴ Lastly, we evaluated menu items according to other established criteria for nutritional quality. The following describes each of these criteria in more detail.

NPI score

The NPI score was calculated for each menu item. The score provides a measure of the overall nutritional quality of foods and beverage. It is adapted from the Nutrient Profiling model (NP) currently used by the U.K. Office of Communications (OFCOM) to identify nutritious foods that are appropriate to advertise to children on TV.⁵ The model also has been approved by Food Standards Australia New Zealand to identify products that are permitted to use health claims in their marketing.⁶ The NP model provides one score for a product based on total calories and proportion of healthy versus unhealthy nutrients, and specific food groups or items, including saturated fat, sugar, fiber, protein, sodium, and unprocessed fruit, nut, and vegetable content. All menu items, including individual items in kids' meals, received individual NPI scores.

The NP model has several advantages over other nutrient profiling systems. University of Oxford nutrition researchers developed the model independently of food industry funding. Its development and scoring method is publicly documented and transparent. It has been validated to reflect the judgment of professional nutritionists.⁷ The model also produces a continuous score that provides a relative evaluation of products, in contrast to threshold models that simply classify foods as "good" or "bad." In addition, the model includes only nutrients that are reasonable and well-justified based on existing nutrition science. In particular, the model does not award points for micronutrient fortification, thereby not rewarding vitamins and minerals added to inherently unhealthy products. **Appendix B** provides a detailed description of the model design, scoring method, and benefits.

However, interpretation of the original scores produced by the NP model is not intuitively obvious. The original model is reverse scored (i.e., a higher score indicates a product of worse nutritional quality), and scores range from a high of +34 to a low of -15. In addition, a score of 3 points or lower identifies healthy foods that are allowed to be advertised to children in the United Kingdom. Therefore, we created an NP Index (NPI) score using the following formula: NPI score = (-2) * NP score + 70. For example, a relatively nutritious food with an NP score of -3 would receive an NPI score of 76 (-2 * -3 + 70). This recalculation produces a score from 0 (poorest nutritional quality) to 100 (highest nutritional quality) that is easier to interpret and compare.

To identify menu items with a healthy nutrient composition, we used the cut-offs established by the U.K. OFCOM to identify healthy products.⁸ Only food products with an NP score of 3 or lower and beverages with an NP score of 0 or lower are permitted to be advertised on children's TV programs in the United Kingdom or during programs with a disproportionate number of viewers under 16 years old. This score translates to a revised NPI score of 64 or higher to qualify as a healthy food product and 70 or higher for healthy beverages. All menu items, including individual items in kids' meals, received individual NPI scores.

Calorie and sodium upper limits

We also established maximum acceptable upper limits for calories and sodium in kids' meals and individual menu items and identified menu items that exceeded these upper limits. Children's menu items were evaluated as part of a total meal that included all possible combinations of individual menu items available with a kids' meal (typically a main dish, side, and beverage). All other menu items were evaluated individually.

Table A1 provides the maximum acceptable levels of calories and sodium for a) kids' meals served to both preschool and elementary school-age children; b) lunch or dinner main dish items or meals; c) breakfast main dish items or meals; and

Table A1. Maximum acceptable calories and sodium for kids' meals and individual menu items

Kids' meals	Maximum calories (kcal)	Maximum sodium (mg)
Elementary school-age children (per meal)	650	636
Preschool-age children (per meal)	410	544
Regular menu items (based on recommended upper limits for a	dolescents)	
Lunch or dinner main dishes (per individual item or meal)	700	720
Breakfast main dishes (per individual item or meal)	500	480
Sides, snacks and beverages (per individual item)	350	340

d) sides, beverages, snack foods, and sweet snacks. These criteria are based on the recommendations for upper limits of calories and sodium for school meals served as part of the National School Lunch Program established by the Institute of Medicine (IOM) Committee on School Meals.⁹

On an average visit to a fast food restaurant, 36% of children under 6, 21% of children between 6 and 12, and 2% of children between 13 and 17 order kids' meals.¹⁰ Because preschool-age children require fewer calories compared to older children, we established separate kids' meal criteria for elementary school-age and preschool-age children. We assumed that most adolescents would order from the restaurants' main menus, and therefore set the criteria for main menu items based on recommended calories and sodium for this age group.

- Kids' meals for elementary school-age children. The recommended maximum levels for lunch meals served to 5- to 10-year-olds specified in the IOM School Meals report were used to set the limits for elementary school-age children.¹¹
- Kids' meals for preschool-age children. To calculate maximum acceptable calories and sodium for kids' meals served to preschool-age children, we used the same method reported in the IOM School Meals report. The USDA recommends that a moderately active 2- to 5-year-old child should consume 1,275 calories daily¹² and should not consume more than 1,700 mg of sodium.¹³ Children consume on average 32% of their daily calories at lunch;¹⁴ therefore, maximum acceptable amounts for kids' meals served to preschoolers are 410 calories and 544 milligrams of sodium.
- Lunch/dinner main dish items on the main menu. To set limits for evaluating lunch/dinner and breakfast items for young people from 12 to 17 years, we averaged IOM recommendations for two age groups (11-13 and 14-18 years) for maximum amounts of calories and sodium for specific meals on the regular menu. No recommendations are available for individual meal items; therefore, we used recommended maximum amounts for meals to set limits for main dish lunch/dinner and breakfast items. Visitors to fast food restaurants order 2.4 menu items on average at an eating occasion.¹⁵ As a result, these limits represent the most calories and sodium that any young person should consume from one main dish item, especially if he or she also orders a side and/or beverage.
- Individual items served as snacks, beverages, or sides. The average daily amount recommended for a moderately active 13- to 17-year-old is 2,300 calories;¹⁶ and the recommended upper limit for sodium intake is 2,250 milligrams.¹⁷ Because young people consume on average 30% of their daily calories through snacks,¹⁸ and children consume on average two snacks per day,¹⁹ the maximum acceptable levels for a snack, beverage, or side consumed

in addition to a main dish item is 350 calories and 340 milligrams of sodium for adolescents.

Evaluating kids' meal combinations and main menu items

To evaluate kids' meals, we calculated NPI scores for individual kids' meal items and total calories and sodium for all possible combinations of main dish, side, and beverage items. We then identified kids' meal items with healthy NPI scores and combinations of items that met the acceptable calorie and sodium limits defined in Table A1. We also identified the best and worst kids' meal combinations as follows: for each restaurant, we selected the main dish, side, and beverage with the highest and lowest NPI scores and combined them to create the "best" and three "worst" kids' meal combinations for each restaurant. If more than one combination had the same NPI score, we chose the combined items with the lowest calorie content for the best list and the highest calorie content for the worst list. In addition, we provide estimated grams of added sugar for individual kids' meal menu items. We calculated added sugar in flavored milks by subtracting the sugar contained in plain milk offered with the same serving size and fat content.

For each product category on the menus of the top-five traditional fast food restaurants, we calculated the range of per-item values and medians for NPI score, calories, and sodium. We also calculated percents of items with a healthy NPI score and that met maximum total calories and total milligrams of sodium compared to the limits for the product category (as defined in **Table A1**), in addition to items that met all three criteria. We calculated the same values for all items included in dollar/value menus and healthy menus for the 12 restaurants. We also used these measures to analyze advertised products for the eight non-pizza and non-coffee restaurants that were evaluated in the 2010 report.

Chi-square of significance tests were used to compare differences in percent of items that met criteria by year (2010 vs. 2013). The statistical comparisons include percent of kids' meal combinations by restaurant that met calorie and sodium limits for preschoolers and elementary school-age children, percent of all menu items by type and by restaurant that met nutrition criteria for adolescents for the top-five traditional fast food restaurants, and percent of menu items available on dollar/value menus and healthy menus that met nutrition criteria for adolescents. Statistical significance is reported for differences at $p \le 0.05$.

Additional nutritional quality measures for kids' meal combinations

We also evaluated the nutritional quality of kids' meal combinations using other established nutrition criteria, including the Interagency Working Group (IWG) proposed standards for foods marketed to children and adolescents, Kids LiveWell standards established by companies participating in the Children's Food and Beverage Advertising Initiative (CFBAI) to identify products that can be advertised to children, and Kids LiveWell standards established by the National Restaurant Association for healthy kids' meals.

- IWG interim nutrition standards. The Federal Trade Commission (FTC), FDA, the Centers for Disease Control and Prevention (CDC), and the USDA were commissioned by Congress in 2009 to develop recommendations for the nutritional quality of foods marketed to children and adolescents. These recommendations represent consensus among the experts in these federal agencies about appropriate standards. The IWG recommendations specify limiting four nutrients as follows:
 - Saturated fat: <10% of calories</p>
 - Added sugars: < 13 grams of added sugar</p>
 - Sodium: ≤450 milligrams of sodium
 - Trans fat: Zero grams
- CFBAI new uniform standards for fast food meals.²⁰ Through this Better Business Bureau program, participating companies pledge to advertise only foods that meet nutrition standards to children under 12. New uniform standards (to be implemented by the end of 2013) require that fast food meals featured in child-directed advertising contain no more than 600 calories and 740 milligrams sodium, 10% of calories from saturated fat, and 20 grams of sugar. The guidelines make some exceptions for sugar in fruit, dairy, and 100% juice. To be conservative, we included only added sugars in these limits. CFBAI qualifying meals must also contain a fruit, vegetable, whole grain, lean protein, low fat dairy, or fortification. However, this information was not available from the restaurants so we did not include this requirement in our analysis.
- Kids LiveWell. Kids LiveWell is a voluntary program of the National Restaurant Association to identify healthful meals for children. Participating restaurants must offer at least one kids' meal combination that meets the following criteria:²¹ maximum 600 calories and 770 milligrams sodium; no more than 35% of calories from total fat, 10% of calories from saturated fat, and 35% of calories from sugar; and less than 0.5 grams trans fat. Qualifying meals must also contain two sources of fruit, vegetable, whole grain, lean protein, or low fat dairy, but this requirement was not included in our analysis.

Marketing practices

The analysis of fast food marketing practices documents advertising spending and marketing on TV and in digital media, including restaurant websites, display advertising on third-party websites, social media, and mobile devices. We also identify marketing that appears to be targeted to children, teens, and black and Hispanic youth.

Traditional media

To measure fast food restaurants' marketing practices in traditional media we licensed Nielsen data for advertising spending in all measured media and exposure to TV advertising (including Spanish-language) by age group and race. These data document total fast food restaurant advertising spending and TV exposure from 2009 to 2012.²² We also provide more detailed analyses of the 25 restaurants with the most national TV advertising spending in 2012. In addition, we conducted a content analysis of the messages and specific menu items promoted in TV advertising that appeared on children's commercial networks.

Advertising spending

Nielsen identified 264 restaurants in the Quick Serve Restaurant (QSR) category (Product Classification Code [PCC] = G330) with advertising spending in 2012. We also obtained Nielsen data for two additional restaurants in the *QSR Magazine* Top 50^{23} that were classified by Nielsen as coffee/donut retail shops (PCC = G716) (Starbucks and Dunkin' Donuts). Nielsen tracks total media spending in 18 different media including TV, internet, radio, magazines, newspaper, free standing coupon inserts, and outdoor advertising. We licensed these data for all fast food restaurants for the four-year period. These data provide a measure of all fast food **advertising spending**.

TV advertising exposure

To measure exposure to fast food TV advertising, we also licensed gross rating points (GRP) data from Nielsen for the same period and restaurants. GRPs measure the total audience delivered by a brand's media schedule. It is expressed as a percent of the population that was exposed to each commercial over a specified period of time across all types of TV programming. It is the advertising industry's standard measure to assess audience exposure to advertising campaigns; and Nielsen is the most widely used source for these data.²⁴ GRPs, therefore, provide an objective assessment of advertising exposure. In addition, GRPs can be used to measure advertisements delivered to a specific audience, such as a specific age or other demographic group (also known as target rating points or TRPs), and provide a "per capita" measure to examine relative exposure among groups. For example, if a restaurant had 2,000 GRPs in 2012 for 2- to 11-year-olds and 1,000 GRPs for 25- to 49-year-olds, then we can conclude that children saw twice as many ads for that restaurant in 2012 as compared to adults.

The GRP measure differs from the measure used to evaluate food industry compliance with their CFBAI pledges. The pledges apply only to advertising in children's TV programming as defined by audience composition (e.g., programs in which at least 35% of the audience are under age 12); less than one-half of all advertisements viewed by children younger

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than 12 occur during children's programming.²⁵ In contrast, GRPs measure children's total exposure to advertising during all types of TV programming. Therefore, evaluating GRPs will determine whether participating companies reduced total TV advertising to this age group.

In the TV advertising analyses, we first identified GRPs for the following demographic groups: 2-5 years, 6-11 years, 12-17 years, 18-24 years, and 25-49 years. These data provide exposure to national (network, cable, and syndicated) and local (spot market) TV combined. We also obtained GRPs for advertising viewed by black and white youth in the same age groups on national TV only; Nielsen does not provide spot market GRPs for blacks at the individual level. Spot TV advertising accounted for 11% of fast food restaurant advertising viewed by youth (2-17 years) during 2012. Therefore, these data reflect an estimated 89% of black youth exposure to TV fast food restaurant advertising. To assess exposure by Hispanic youth to Spanish-language advertising, we provide GRP data for advertising that occurred on Spanish-language TV.

Nielsen calculates GRPs as the sum total of all advertising exposures for all individuals within a demographic group, including multiple exposures for individuals (i.e., gross impressions), divided by the size of the population, and multiplied by100. GRPs may be difficult to interpret. Therefore, we also use GRP data to calculate the following TV advertising measures:

- Average advertising exposure. This measure is calculated by dividing total GRPs for a demographic group during a specific time period by 100. It provides a measure of ads viewed by individuals in that demographic group, on average, during the time period measured. For example, if Nielsen reports 2,000 GRPs for 2- to 5-year-olds for a restaurant in 2012, we can conclude that on average all 2to 5-year-olds viewed 20 ads for that restaurant in 2012.
- Targeted GRP ratios. As GRPs provide a per capita measure of advertising exposure for specific demographic groups, we also used GRPs to measure relative exposure to advertising between demographic groups. We report the following targeted GRP ratios:
 - Preschooler:adult targeted ratio = GRPs for 2-5 years/ GRPs for 25-49 years
 - Child:adult targeted ratio = GRPs for 6-11 years/GRPs for 25-49 years
 - Teen:adult targeted ratio = GRPs for 12-17 years/GRPs for 25-49 years
 - Black:white child targeted ratio = GRPs for blacks 2-11 years/GRPs for whites 2-11 years. This measure uses only national GRPs.
 - Black:white teen targeted ratio = GRPs for blacks 12-17 years/GRPs for whites 12-17 years. This measure uses only national GRPs.

A targeted ratio greater than 1.0 indicates that on average persons in the group of interest (i.e., children in the child:adult ratio) viewed more advertisements than persons in the

comparison group (i.e., adults), while a targeted ratio less than 1.0 indicates that they viewed fewer ads. For example, a child:adult targeted ratio of 2.0 indicates that children viewed twice as many ads as adults viewed. If this ratio is greater than the relative difference in the amount of TV viewed by each group, we can conclude that the advertiser likely designed a media plan to reach this specific demographic group more often than would occur naturally.

TV advertising exposure by product type

In addition to the Nielsen GRP data at the restaurant level described above, we also obtained GRPs at the brand variant level for national advertising in 2012 for the 18 restaurants in our detailed analysis. Creative descriptions for all ads aired for each brand variant also were obtained. Researchers then categorized ads into **product types** based on the brand variant name and creative descriptions did not provide enough information to categorize the ads. For these ads, a researcher viewed copies of individual advertisements to determine which product type was the main focus of the ad.

Ads were classified as follows:

- Kids' meals. Any kids' meal, either with or without specific kids' meal menu items.
- Branding only. The restaurant as a whole is the main point of the ad. Food may be pictured, but no specific food products are mentioned.
- Breakfast items. Any menu items typically consumed for breakfast.
- **Coffee beverages.** Any type of coffee beverage, including hot and frozen varieties.
- **Healthy options.** Healthy menu, menu items, or healthy version of a meal (as designated by the restaurant).
- Lunch/dinner items. Individual lunch/dinner menu items or line of items including main dishes, sides, and side beverages.
- Promotion only. Only a promotion is mentioned. Food may be pictured in the ads, but not mentioned.
- Snacks/desserts. Items typically consumed as a dessert or snack, including snack beverages.
- Value menu/combo meals. Value menu, dollar menu, combo meals, or other special pricing for a group of individual menu items, including mentions of the entire menu or specific items included on the value menu or in a combo meal.

TV advertising content analysis

We conducted a content analysis to evaluate the messages and marketing techniques used in advertisements that appeared on children's TV. Using the AdScope database from Kantar Media, we obtained digital copies of all fast food advertisements from the top 18 restaurants that aired nationally in the United States from January 1, 2012 through December 31, 2012 on five children's commercial networks: Nickelodeon, NickToons, Cartoon Network, The Hub, and Disney XD. Research assistants viewed each ad and removed duplicates, including 15-second shortened versions of 30-second ads.

We used the coding manual developed for the 2010 Fast Food FACTS report as the basis for the coding manual for the present study.²⁶ Two coders were trained to review the advertisements and code them for all items in the manual. In several pre-test group sessions, the project manager and coders evaluated 10 to 20 food advertisements during each session. These ads were selected from those used in the 2010 content analysis. Following these sessions, the project manager resolved coder disputes and revised and finalized the coding manual.

The final coding manual included six main categories:

- Selling point, or direct benefit of the product. Coders chose as many selling points as were present in the ad. These included: new/improved if the ad introduced a new product or an improvement to an old one; value/cheap if the ad highlighted the price of the product, such as "buy one get one free," "now for the low price of...," or "only 99 cents;" health/nutrition for claims about the nutrition, nutrients, or health outcomes of consuming the product; quality food if the ad used natural, fresh, real, quality, or similar words to describe the food; and limited-time special offers for short-term price promotions, giveaways, and new products that "won't be here long."
- Product associations, or indirect benefits of the product suggested or implied in the ad. Coders chose as many product associations as were present in the ad. These included: physical activity when the ad portrayed, suggested, or encouraged physical activity in any way; fun/ cool claims, typically made implicitly by depicting enjoyable social occasions, excitement or adventure, standing out in a crowd, superiority, and pop-culture references; humor if the ad included comedic elements, obvious or subtle, irony, or sarcasm; and adults as negative or incompetent if the ad belittled or poked fun at adult figures, parents, or other authority figures.
- Main characters in the ad or purchasers/consumers when indicated. Age was categorized as children (0 to 12 years), teens/young adults (13 to 29 years), older adults (30 years and older), and parents (buying food for children).
- Third-party tie-ins included appearances by outside (not brand-related) persons, characters, or other companies/ organizations, such as celebrities (famous actors, athletes, and musicians); movies/TV shows/video games; and licensed characters when a character from a TV, movie, or video game was featured in the ad (e.g., a "Shrek" toy promotion in a kids' meal).

- Brand spokes-characters, or fictional characters or mascots associated specifically with the brand or intrinsic to the identity of the brand (e.g., Ronald McDonald, Wendy).
- Eating behaviors that were portrayed or suggested. These included: place of consumption to describe where the food was apparently consumed (i.e., in the restaurant or other place); and time of consumption to describe when the food was consumed (e.g. late at night or unclear).
- Website references, either suggested or depicted on the screen. All references to websites were recorded, including reference to third-party sites.

Formal reliability testing was conducted using a sample of 37 ads from the final inventory. Cohen's Kappa²⁷ was used to measure inter-rater reliability. Each coder coded this same subset of ads. Kappa values ranged from .30 (fair) to 1.00 (perfect) agreement with 72% of the items receiving substantial to perfect agreement (.61 to 1.00) and only 1% receiving values in the fair range of agreement (.21 to .40). Items with Kappa values lower than .60 were discussed and redefined for clarity prior to moving forward with the final coding. The remaining advertisements were randomly assigned to the two coders, and final coding occurred over a three-week period.

TV advertising nutrient content analysis

We analyzed the nutrient content of products that appeared on television ads for eight restaurants: the restaurants in the 2010 analysis, excluding the pizza and coffee restaurants. Researchers viewed these ads to identify items that were prominently featured and how items were intended to be consumed (i.e., a single menu item, a combination of menu items, or one of a variety of advertised items).

To calculate the calorie and sodium content of individual ads, we used different procedures according to whether the ad appeared to encourage consumption of one type of food (e.g., one of several different sandwiches) or more than one food (e.g., a sandwich and a side item). If the ad encouraged consumption of one food, we averaged the nutrient information for all foods that were predominantly featured in the ad. If the ad encouraged consumption of more than one food, we added the nutrient information for all main foods presented to obtain total calories, sodium, saturated fat, and total sugar. In a few instances, ads promoted more than one food category and more than one main food within the categories. For those ads, we averaged the nutrient information for main foods within each category and added the average of the food categories together.

We then used 2012 GRPs for each ad to calculate the weighted **average calories** and **average sodium** per ad viewed by children and teens for each restaurant in our analysis. These measures provide a comparison of the nutrient content of foods featured in ads viewed by different age groups. We also multiplied the weighted average measures for each ad viewed by the average number of ads viewed per day by

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preschoolers, children, and teens, and by black age groups to provide **total calories**, **proportion of calories from sugar and saturated fat**, and **total sodium** viewed in fast food TV ads daily. The breakdown of calories viewed per day by restaurant is also reported. We also compared differences between 2009 and 2012 results. Finally, we examined the nutrient content of menu items that appeared in individual restaurant ads seen most often by children and teens.

Internet and other digital media

We document three types of youth-targeted marketing on the internet: restaurant (i.e., company-sponsored) websites, display advertising on other (i.e., third-party) websites, and social media marketing. Additionally, we provide examples of mobile marketing conducted by fast food restaurants.

Website exposure

We began with a list of restaurant websites that were included in the 2010 Fast Food FACTS report and added new restaurant sites, as well as sites for the six additional restaurants examined in this report, that existed during January through December 2012. For the purposes of this analysis, a website is defined as all pages containing the same stem URL. For example, HappyMeal.com is the website of interest, and HappyMeal.com/#play is an example of a secondary page contained within the site.

We obtained data on exposure to these websites from comScore Media Metrix Key Measures Report.²⁸ The company captures the internet behavior of a representative panel of about 350,000 users in the United States.²⁹ It is the nation's largest existing internet audience measurement panel. The firm collects data at both the household and individual level using Session Assignment Technology, which can identify computer users without requiring them to log in. The company uses these panel data to extrapolate its findings to the total U.S. population. Companies participating with comScore can also have census tags placed on their web content and advertisements to further refine audience estimates. Using the comScore panel, we identified individuals' exposure to restaurant websites, including exposure for both children and adults in the same household. The Media Metrix database provides internet exposure data for all websites visited by at least 30 of their panel members in a given guarter.³⁰ Media Metrix also provides exposure information by visitor age, ethnicity, and race for larger volume websites.

We first searched the comScore Media Metrix database to identify the fast food restaurant websites for which exposure data were available from January through December 2012. For each quarter during this period, we also used the Media Metrix Key Measures Report to collect the following data for available restaurant websites: total unique visitors, total visits, average minute per visit, and average visits per unique visitor. In addition, when enough website traffic was recorded in a given quarter we also collected these measures separately for children (2-11 years), teens (12-17 years), and all youth (2-17 years), and for black, Hispanic, and all youth (6-17 years).

For each of the demographic groups with data, we also report a **targeted index**, which measures the extent to which child or teen visitors to a website are over- or underrepresented compared to all visitors (2+ years) and the extent to which black or Hispanic youth visitors to a website are overor underrepresented compared to all 6- to 17-year-old visitors. Targeted indices greater than 100 signify that the demographic group was overrepresented on a website in relation to the comparison group; and targeted indices less than 100 signify that it was underrepresented. For example, if 40% of black youth visited HappyMeal.com, but 20% of all youth visited HappyMeal.com, the black youth targeted index for HappyMeal.com would be 200.

For each website in our analysis, we report the following website exposure measures:

- Average unique visitors per month for children, teens, and black and Hispanic youth. This measure was calculated by adding average total unique visitors per month, as reported quarterly by comScore, from January through December 2012 for each demographic group divided by four (for four quarters).
- Average visits per month,³¹ average pages per month, and average minutes per visit for each unique visitor. Quarterly numbers, as reported by comScore, were averaged for each website. The company only reports these data for the larger demographic groups. If separate data were not available for the specific demographic group, we used the information for the next largest demographic group. For example, if data were not available for 2- to 11-year-olds specifically, we report the data for 2- to 17-year olds.
- Child and teen targeted indices were calculated by dividing the percent of visitors to the website who were children (2-11 years) or teens (12-17 years) by the percent of child and teen visitors to the total internet. First, the percent of visitors exposed to the website from each age group (2-11 years or12-17 years) was obtained by averaging the number of monthly unique visitors to the website for that age group for the four quarters of 2012 and dividing that number by all average monthly unique visitors to the website (ages 2+). The same calculations were done for visitors to the total internet during the four quarters of 2012 for the same age group. The percent of child or teen visitors to the total internet and multiplied by 100 to get the targeted index.
- Black youth and Hispanic youth targeted indices were calculated by dividing the percent of black or Hispanic youth (6-17 years) who visited the website by the percent of all youth who visited the website. First, the percent of black

or Hispanic youth who visited the website was obtained by averaging the number of monthly unique visitors to the website for that group for the four quarters of 2012 and dividing that number by all black or Hispanic youth visitors to the total internet. The same calculations were done for all youth visitors to the website during the four quarters of 2012. The percent of black or Hispanic youth who visited the website was then divided by the percent of all youth who visited the website and multiplied by 100 to get the targeted index.

Display advertising on third-party websites

Data for exposure to fast food advertising on **third-party websites** (i.e. websites sponsored by other companies) were extracted from the comScore Ad Metrix Advertiser Report.³² comScore Ad Metrix monitors the same panel of users as comScore Media Metrix but tracks advertisements that are completely downloaded and viewable on a user's web browser. Ad Metrix, therefore, measures individual exposure to display ads presented in rich media (SWF files) and traditional image-based ads (JPEG and GIF files). It does not capture text, video, or html-based ads. Ad Metrix also identifies the unique user viewing the advertisement, the third-party website on which the advertisement was viewed, and the company sponsoring the advertisement.

Third-party website data were collected for January through December 2012. During the time period of our analysis, Ad Metrix did not report demographic information about the individuals who were exposed to these advertisements. Consequently, we cannot differentiate between exposure by any specific age group, including children, adolescents, or Hispanic or black youth.

The Product Dictionary from comScore was used to determine the display advertisements of interest. The company provided display advertisement data for the 18 restaurants in our analysis. For some restaurants, comScore also provided detailed data for specific menu items or promotions. For example, comScore provided display ad exposure data for McDonald's Chicken McNuggets and Happy Meal ads in addition to data for all McDonald's display ads combined. The company provides data for display ads for any fast food restaurant, menu item, or promotion in its dictionary that was viewed at least ten times by comScore panel members on the internet or on a specific publisher site.

Measures available from comScore for each month include **display ad impressions** (i.e., the number of advertisements fully downloaded and viewed on publisher websites), **advertising exposed unique visitors** (i.e., the number of different individuals exposed to advertisements on a publisher website), and **average frequency of ad views** per unique visitor by fast food advertiser. This information is available for the total internet and for individual publisher websites.

As we could not separate ads viewed by age group, we identified websites on which the advertisements appeared that were disproportionately targeted to youth (i.e., youth websites) and children (i.e. kids' websites).

For the first three quarters of 2012, we defined a **youth website** as a website that met one of two conditions: 1) It was identified by comScore as an entertainment website for youth ages 2-17 or as a teen community website during the period examined; or 2) the proportion of visitors ages 2-17 to the website exceeded the total percentage of visitors to the internet ages 2-17 during the time period examined. In the last quarter of 2012, comScore changed its website classification system and eliminated the youth entertainment category. Therefore, we only used the proportion of visitors ages 2-17 to define youth websites for ads that appeared during the fourth quarter of 2012.

We also identified websites that were targeted to children. We defined a **kids' website** as a website that met two conditions: 1) It met the criteria for being considered a youth website; and 2) over 20 percent of the unique visitors to the website were ages 2-11 years. Because we are unable to differentiate between ads viewed by youth under 18 years versus adults, we instead assume that advertising on youth and kids' websites will be viewed by disproportionately more young people.

From the comScore data, we calculated the following measures for each fast food product (including websites, menu items, and promotions) for which display advertising was found. Total numbers also were calculated for all identified restaurant products:

- Unique viewers per month³³ was calculated by adding the number of unique visitors exposed to a product's advertising reported monthly from January through December 2012 and dividing by 12.
- Ads viewed per viewer per month was calculated by averaging the number of ads viewed per viewer for the product for each month from January through December 2012.
- Proportion of ads viewed on kids' websites, youth websites, and Facebook were calculated by dividing the restaurant product's total display ad impressions that appeared on kids' websites, youth websites, and Facebook by the total display ad impressions that appeared on all websites from January 2012 through December 2012.
- Average ads viewed on kids' websites, youth websites, and Facebook per month were calculated by adding a product's display ad impressions on kids' websites, youth websites, and Facebook reported monthly from January through December 2012 and dividing by 12.

Mobile advertising

We examined three types of marketing used by the 18 restaurants in our analysis to reach consumers on their mobile devices: restaurant-sponsored mobile websites, display ads on third-party mobile websites, and smart phone applications.

For both restaurant-sponsored mobile websites and display ads on third-party mobile websites, comScore is unable to track smartphone or tablet usage for persons under 18 years old. Therefore, our data reflect the websites visited and ads viewed by users 18 years and older.

We utilized data from comScore's Mobile Metrix³⁴ application to measure exposure to restaurants' **mobile websites** from March 2012 through February 2013. Mobile websites include special mobile versions of restaurant websites, as well as full versions of restaurant websites viewed on a smartphone or tablet. Mobile Metrix tracks a list of mobile websites four times per day over the course of a month. At the time of collection, we were unable to access data prior to March 2012, so we gathered 12 months of data starting from that point.

For each mobile website in our analysis, we report the following exposure measures:

- Average monthly unique visitors was calculated by adding total unique visitors reported each quarter from March 2012 through February 2013 divided by four (for four quarters).
- Minutes per visitor per month is the average amount of time per month that a visitor spent on a restaurant's website.

We also used comScore's Ad Metrix Mobile Report³⁵ to measure **mobile display ads**, or ads that appear at the top or bottom of third-party mobile web pages. Similar to internet display ads, they are graphic display ads (commonly accepted file types are GIF, Animated GIF, JPEG, and PNG) that click through to a page designated by the advertiser.

comScore's Ad Metrix Mobile product tracks display ads on more than 1,000 mobile URLs. This includes all sites linked to a mobile service provider's portal (effectively a carrierspecific home page for accessing the mobile internet). The company automatically collects data from these defined portal websites every six hours, or approximately120 times per month. The **average monthly ad instance** measures how many times the application encounters a specific ad. Copies of the advertisements are captured and stored as a static image and classified four ways: by the company that owns the advertised product, the division responsible for the product, the product brand, and the product itself.

Restaurants also offer **smartphone applications**, or operating system specific (e.g., iOS and Android) applications that may be downloaded to smartphones and tablets and act as stand-alone programs. Using an iPhone, we downloaded all available applications offered by the restaurants in our analysis as of August 2013. We documented the features and

capabilities of each app, including ordering ability, restaurant locators, nutrition information, games, special offers, and social media connections.

Social media

We measured presence on three popular social media sites: Facebook, Twitter, and YouTube, for the 18 restaurants in our analysis. In addition, we examined the content of Facebook posts and restaurant activity on Twitter.

On Facebook, we recorded the number of likes for each fast food restaurant's page(s) in July 2013. We also collected Facebook posts, or the messages that restaurants post on their timelines, during a three-month period from December 1, 2012 to February 28, 2013. Using screen captures we conducted a content analysis of these posts. A codebook was developed and good inter-rater reliability was established prior to final coding of posts. Two coders identified the menu items featured in posts (including individual items, lines of items, and special menus); engagement devices used (i.e., showing a picture, asking a question, providing a link to an outside website, linking to a restaurant's own website, linking to Facebook events, contests, or sweepstakes, and watching a video); and child-targeted content (i.e., any content which spoke directly to a child, featured a kids' meal, animation. or any third-party characters, games, movies, TV shows, or celebrities that would appeal to children).

To measure marketing on **Twitter**, we recorded the number of followers for all of restaurants' page(s) in July 2013. Followers are users who have agreed to receive a restaurant's tweets through Twitter. In addition, we used Twitonomy to track activity on restaurants' main Twitter accounts from March to August 2013. Twitonomy is a web-based Twitter analytics program that analyzes the most recent 3,200 tweets of any user with a public Twitter account.³⁶ Twitter activities analyzed include average number of tweets per day, percent of tweets that were replies to users, and proportion of tweets that were retweeted or favorited by other users. Replies are direct responses by restaurants to tweets sent by other Twitter users. Retweets are restaurant tweets that users have re-posted for their own followers to see. Users have the ability to mark a tweet as a **favorite**, thereby saving it in special section on their profile page. A user's favorites can be viewed by other users, and indicates that the user finds the tweet of interest or value.

For **YouTube**, we recorded the following data as of July 2013: number of **subscribers** to each restaurant's YouTube channel, number of **video uploads** (i.e., videos available to view on the restaurant's channel), and **upload views** (i.e., number of times an uploaded video was viewed).

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The UK Ofcom Nutrient Profiling (NP) Model

Defining 'healthy' and 'unhealthy' foods and drinks for TV advertising to children

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Consumer groups and public health organisations have called for bans on the advertising of 'unhealthy' food to children for several decades. The definition of 'unhealthy' has been a topic of considerable argument. Food companies have resisted having any products described as 'unhealthy' but have gradually developed a number of different schemes which define products they believe are 'healthy' (or at least 'healthier') and appropriate for advertising to children. Health and consumer groups have called for a single scheme or 'nutrient profiling model' - consistent with international recommendations for preventing chronic disease and with national food-based dietary guidelines. A simple system which could be applied to all products and with a clearly defined cut-off for defining which foods are not suitable for advertising to children would be ideal.

What sort of nutrient profiling model?

There are a number of technical questions which need to be considered:

- Which nutrients should be included?
- Should the profiling criteria differ according to the type of food being profiled, or should all foods be assessed using the same criteria?
- What is the reference amount: for example, should foods be compared per 100g, per 100 kcal or per portion or serving?
- Should the final result be presented as a single figure or as a set of figures relating to different aspects of the nutritional quality of the food?

The answers to these questions depend on the purpose of the nutrient profiling model. If the requirement is simply to define the presence of 'high' or 'low' levels of nutrients, then the methodological questions are fairly easily answered, and indeed nutrient profiling in this sense has been widely accepted for national and international legislation. Codex Alimentarius and various other bodies have defined threshold values for making 'high' and 'low' claims for nutrients in food products, per unit of food, and include specific requirements for presenting information on which a nutrient-related claim is made. A similar approach is used for claims which make comparisons such as a 'higher' or 'lower' level of a nutrient relative to similar foods. An extension of these principles is to combine several different nutrients into a single score which can be used to show that a product is nutritionally better than another, similar one. For example, a manufacturer or retailer may promote a 'healthy eating' range, or a government or public health body may endorse a labelling scheme to identify 'better for you' products. Several schemes to identify healthier options within classes of foods are already available, such as the US manufacturers' *Smart Choices* programme (http://www.smartchoicesprogram.com/nutrition.html) and the Swedish Keyhole labelling scheme (http://www.slv.se/upload/nfa/documents/food_regulations/Keyhole_2005_9.pdf).

In 2007 a review of nutrient profiling models commissioned by the UK Food Standards Agency identified over 40 different schemes (http://www.food.gov.uk/healthiereating/ advertisingtochildren/nutlab/nutprofilereview/ nutprofilelitupdatedec07). More schemes have been developed since then. They vary considerably in the nutrients they consider (ranging from just a few to over 20) and whether they use different criteria according to the type of food being profiled or whether all foods are assessed using the same criteria. The Smart Choices scheme has different criteria for 19 different food categories, the Keyhole scheme has 26 food categories, and one scheme - used for the Australian Heart Foundation Tick Program (http:// www.heartfoundation.org.au/sites/tick/Pages/default.aspx) has different criteria for more than 70 food categories. The schemes also vary in the reference amounts they are based upon, and in the measurement criteria they use to score the different aspects of nutritional quality.

For the purposes of defining foods suitable for advertising to children, the nutrient profiling model needs to be relatively simple to understand and to apply. An ideal model uses easily-available information, it should take into account 'positive' elements (e.g. micronutrients, fruit, vegetables and dietary fibre) and 'negative' elements (e.g. saturated fats, salt/sodium and added sugars) and it should provide a single answer which lies on a single scale that runs from 'healthy' to 'unhealthy'.

The UK model

The UK regulator for broadcast media is the Office of Communications, usually called Ofcom, and in anticipation of new regulations to control advertising to children, it requested advice on how to profile the nutrients in foods in order to judge their suitability for advertising to children. In response, the UK Food Standards Agency commissioned the British Heart Foundation Health Promotion Research Group at Oxford University to carry out a research programme to develop a nutrient profiling model. The development of the model has been well-documented elsewhere (http:// www.food.gov.uk/foodlabelling/researchandreports/ nutrientprofiles). The model was formally passed to Ofcom at the end of 2005 and has subsequently been incorporated into a regulation (http://www.ofcom.org.uk/consult/condocs/ foodads_new/statement). This prohibits advertising of specified food and beverages during children's programmes and programmes for which children under the age of 16 years form a disproportionate part of the audience.

In the development of the model, various prototypes were compared with each other and with a set of foods categorised for their compliance with healthy eating guidelines. This was first done relatively informally by a small 'expert group' consisting of academic nutritionists and representatives from industry, consumer organisations and public health bodies, but then more formally using an on-line survey of professional nutritionists in the UK. The survey asked the nutritionists to assess 40 foods for their 'healthiness'. The 40 foods were randomly drawn from 120 different food products representative of the UK diet. The professionals' ratings were compared with the ratings obtained from the prototype models (http://www.food.gov.uk/ multimedia/pdfs/npreportsept05.pdf).

The best prototype model showed a close correlation with the professional ratings of r = 0.80 (95% CI 0.73-0.86). In this model, a single score based on a set of 'negative' indicators (energy, saturated fat, sugars and sodium) is counterbalanced by a score based on 'positive' indicators (protein, fibre and 'fruit, vegetables and nuts'). The protein score was found to be a good indicator of a range of micronutrients that would otherwise merit inclusion in the model. All measurement criteria were per 100 grams. The final model included various refinements to allow for some anomalous foods: in particular, the protein score was disallowed if the score for 'fruit, vegetables and nuts' was too low.

The model generates a final single score which determines whether the food can be advertised to children. Two threshold levels were set: one threshold for all food products and another for beverages.

Note that the model uses a 100g measure rather than actual serving size. This is justified on the basis that the model is designed to measure the nutritional quality of the food regardless of the way it is eaten. Using a 'per serving' approach would have been possible but to do so introduces several difficulties, not least of which is the fact that serving sizes and consumption patterns are an individual matter and cannot be standardised, especially across different age groups. Early prototypes of the model gave a score for added sugars (technically non-milk extrinsic sugars), but this was later replaced with a score for total sugar, a move which received substantial support from food manufacturers who said they faced technical difficulties in analysing added sugars and that information on total sugars is a requirement of UK (based on European) food labelling legislation. The contribution of foods high in natural sugars to a balanced diet is addressed through the inclusion of criteria for protein (in which dairy products usually score well) and for fruit and vegetables.

Early prototypes also gave scores for calcium, iron and n-3 poly-unsaturated fatty acids. These were later replaced with a score for protein, primarily to make scoring foods easier (protein levels are required by food labelling legislation but calcium, iron and n-3 polyunsaturated fatty acid levels are not) but also because prototype models which gave a score for protein rather than the other three nutrients gave similar results.

Subsequent to the adoption of the model the British Heart Foundation Health Promotion Research Group have further investigated the validity of the model - and in particular have shown that people in the UK who have less healthy diets consume more of their calories in the form of foods defined as less healthy by the model.

The model was developed for the regulation of food advertising in the UK, and was tested on a range of foods in UK national databases. For use outside the UK the model should be assessed using relevant national food databases, and for international use it should be assessed on a broad range of products from different national cuisines.

Added value and further applications of nutrient profiling

A clear result of using nutrient profiling as a means of assessing eligibility for marketing is that the profiling scheme becomes a driver for product reformulation. Processed foods that fail to meet the criteria permitting their advertising to children might benefit from reformulation, enabling the manufacturer to continue to advertise them. For example, most breakfast cereals promoted on children's television are high in sugar, and some are also high in salt. It is hoped that the controls in marketing may stimulate manufacturers to produce products that are lower in sugar and salt, thereby avoiding the advertising restrictions.

Although developed for restrictions on marketing through broadcast media, the model also has the potential to be used as the basis for developing regulations for nonbroadcast advertising and promotion – for example for product placements in films or for internet advertising.

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Nutrient profiling models could clearly support a wide range of public health initiatives. They are already used extensively as the basis of food labelling schemes. Note however that the front-of-pack 'traffic light' labelling scheme recommended for use by the UK Food Standards Agency uses a different nutrient profiling scheme than the one that has been developed for restrictions on marketing of foods to children. The three 'traffic light' colours indicate high, medium and low levels, for each of four nutrients: fat, saturated fats, sugars and salt/sodium. Nutrient profiling could also be used to support labelling in catering outlets, where, for example, traffic light signalling could help customers select healthier items from menus in advance of ordering their food.

In order to prevent poor quality foods from being promoted with health claims on the basis of a single 'good' ingredient, nutrient profiling can be used to decide if a food is sufficiently 'healthy' to be allowed to carry a health claim. The government body responsible for health claims regulation in Australia and New Zealand (Food Standards Australia New Zealand) has adapted the UK Ofcom model for assessing whether foods should be allowed to carry health claims. Their site includes a calculator that returns a score from the model (http://www.foodstandards.gov.au/foodmatters/ healthnutritionandrelatedclaims/nutrientprofilingcal3499. cfm). The European Commission is also in the process of developing a nutrient profiling scheme that would define which foods may carry a permitted nutrition or health claim.

The use of nutrient profiling can be extended to contractual relationships: for example the quality criteria for products supplied for school meal services and institutional catering in the workplace. The health sector, armed service, prisons and elderly care could include nutritional profiling standards, which in turn could be used for contract compliance and for health impact assessments of meal service policies.

Fiscal policies designed to benefit public health may, if they are considered appropriate, also benefit from using nutrient profiling as an assessment tool. One criticism made of the suggestion to impose a tax on foods such as soft drinks and snack foods is the difficulty of administering the tax because of the problem of defining what constitutes a soft drink, a snack food, etc. Nutrient profiling provides a method for categorising foods for taxation or subsidy. A taxation system based on nutrient profiling would also encourage manufacturers to reformulate their recipes and adjust their product portfolio.

The UK Ofcom nutrient profiling model in detail

The model provides a single score for any given food product, based on calculating the number of points for

'negative' nutrients which can be offset by points for 'positive' nutrients. Points are allocated on the basis of the nutritional content in 100g of a food or drink.

There are three steps to working out the overall score for the food or drink.

1. Calculate the total 'A' points

A maximum of ten points can be awarded for each ingredient (energy, saturated fat, sugar and sodium). The total 'A' points are the sum of the points scored for each ingredient.

Total 'A' points = [points for energy] + [points for saturated fat] + [points for sugars] + [points for sodium]

Points	Energy (kJ)	Sat Fat (g)	Total Sugar (g)	Sodium (mg)
0	≤ 335	≤ 1	≤ 4.5	≤ 90
1	>335	>1	>4.5	>90
2	>670	>2	>9	>180
3	>1005	>3	>13.5	>270
4	>1340	>4	>18	>360
5	>1675	>5	>22.5	>450
6	>2010	>6	>27	>540
7	>2345	>7	>31	>630
8	>2680	>8	>36	>720
9	>3015	>9	>40	>810
10	>3350	>10	>45	>900

If a food or drink scores 11 or more 'A' points then it cannot score points for protein unless it also scores 5 points for fruit, vegetables and nuts.

2. Calculate the total 'C' points

A maximum of five points can be awarded for each ingredient. The total 'C' points are the sum of the points for each ingredient (note that you should choose one or other of the dietary fibre columns according to how the fibre content of the food or beverage was calculated).

Total 'C' points = [points for fruit, vegetables and nut content] + [points for fibre (either NSP or AOAC)] + [points for protein]

NB. Guidance on scoring fruit, vegetables and nut content is available from the Food Standards Agency (http://www. foodstandards.gov.uk/multimedia/pdfs/nutprofpguide.pdf).

Points	Fruit, Veg & Nuts (%)	NSP Fibre (g)	or AOAC Fibre (g)	Protein (mg)
0	≤ 40	≤ 0.7	≤ 0.9	≤ 1.6
1	>40	>0.7	>0.9	>1.6
2	>60	>1.4	>1.9	>3.2
3	-	>2.1	>2.8	>4.8
4	-	>2.8	>3.7	>6.4
5	>80	>3.5	>4.7	>8.0

3. Calculate the overall score

If a food scores less than 11 'A' points then the overall score is calculated as follows:

Overall score = [total 'A' points] minus [total 'C' points].

If a food scores 11 or more 'A' points but scores 5 points for fruit, vegetables and nuts then the overall score is calculated as follows:

Overall score = [total 'A' points] minus [total 'C' points]

If a food scores 11 or more 'A' points but also scores less than 5 points for fruit, vegetables and nuts then the overall score is calculated without reference to the protein value, as follows:

Overall score = [total 'A' points] minus [fibre points + fruit, vegetables and nuts points only]

The model can be adjusted to take account of changes in public health nutritional policy. Within the model any threshold can be defined according to the judgment of the policy makers and their scientific advisers. For the purposes of the advertising controls introduced in the United Kingdom:

a **food** is classified as 'less healthy' where it scores **4 points or more**, and

a **drink** is classified as 'less healthy' where it scores **1 point** or more.

Frequently asked questions

There are a number of frequently asked questions about how to use the model to calculate scores for products. One of the most frequently asked questions is: 'What counts as a food and what as a drink?' For the purpose of the model a drink is defined as 'any liquid food, excluding oils, soups, condiments (vinegar, salad cream etc.) and dressings.'

Answers to other questions such as 'Should scores be calculated for products as eaten or as sold?', 'How do you calculate the scores for foods where nutritional information is provided by volume rather than weight?' and worked examples are available in technical advice provided by the Food Standards Agency (http://www.food.gov.uk/multimedia/ pdfs/techguidenutprofiling.pdf).

The model can be adjusted so that points for foods and drinks fall on a scale from 1 to 100 where 1 is the least healthy and 100 is the most healthy product using a simple formula: NUTRITION PROFILING INDEX SCORE = (-2)*OLD SCORE + 70

The table below gives an indication of how the model categorises foods.

Examples of foods that can and	cannot be advertised ac	cording to the UK
Ofcom nutrient profiling model		0

Foods that can be advertised (points <4 for foods; <1 for drinks)	Foods that cannot be advertised (score ≥4 for foods; score ≥1 for drinks)
Wholemeal and white bread	Potato crisps including low fat
Muesli and wheat biscuit cereal with no added sugar	Most breakfast cereals
Fresh fruit	Cheddar cheese, half and full fat
Most nuts	Butter and margarine
Takeaway salads with no dressing or croutons	Most sausages and burgers
Most brands of baked beans	Raisins and sultanas
Some brands of baked oven chips	Cookies
Some brands of chicken nuggets	Confectionary
Fish fingers	French fries
Chicken breast	Peanut butter
Unsweetened fruit juice	Mayonnaise, reduced and full calorie
Skimmed, semi-skimmed and whole milk	Most pizzas
Diet cola	Sweetened milkshakes
	Cola and other carbonated sweetened drinks

Note that some of these classifications depend on the particular recipe for the product.

Source: Annex II of Rayner M, Scarborough P, Boxer A, Stockley L. Nutrient profiles: Development of final model. London: Food Standards Agency, 2005. (http://www.food.gov.uk/multimedia/pdfs/nutprofr.pdf)

Annotated reading list about the UK Ofcom nutrient profile model

The history of the model.

These reports describe the development of the UK Ofcom nutrient profiling model.

- Rayner M, Scarborough P, Stockley L. Nutrient Profiles: Options for definitions for use in relation to food promotion and children's diets. London: Food Standards Agency, 2004. http://www.food.gov.uk/multimedia/pdfs/ nutrientprofilingfullreport.pdf
- Stockley L. Report on a scientific workshop to assess the Food Standards Agency's proposed approach to nutrient profiling. London: Food Standards Agency, 2005. http://www.food.gov.uk/multimedia/pdfs/ nutprofworkshop250205.pdf
- Rayner M, Scarborough P, Stockley L, Boxer A. Nutrient Profiles: Further refinement and testing of model SSCg3d. London: Food Standards Agency, 2005. http:// www.food.gov.uk/multimedia/pdfs/npreportsept05.pdf
- Rayner M, Scarborough P, Boxer A, Stockley L. Nutrient profiles: Development of final model. London: Food Standards Agency, 2005. http://www.food.gov.uk/ multimedia/pdfs/nutprofr.pdf

The model was agreed at a board meeting of the UK Food Standards Agency held on 13th October 2005. See the minutes of this meeting. http://www.food.gov.uk/ aboutus/ourboard/boardmeetings/boardmeetings2005/ boardmeeting101305/boardminutes131005

Ofcom agreed to use the model in February 2007. See Office of communications. Television Advertising of Food and Drink Products to Children Final statement. London: Ofcom, 2007. http://www.ofcom.org.uk/consult/condocs/foodads_ new/statement/statement.pdf

In 2007 the UK Food Standards Agency set up an Independent Review Panel to assess 'the effectiveness of the nutrient profiling model at differentiating foods on the basis of their nutrient composition'. As part of that review the BHF Health Promotion Research Group was commissioned to carry out a review of nutrient profiling models. See:

 Stockley L, Rayner M, Kaur A. Nutrient profiles for use in relation to food promotion and children's diet: Update of 2004 literature review. London: Food Standards Agency, 2008. http://www.food.gov.uk/healthiereating/ advertisingtochildren/nutlab/nutprofilereview/ nutprofilelitupdatedec07 The Independent Review Panel finished its work in March 2009. See the report of their review for a board meeting of the UK Food Standards Agency of 25th March 2009. http://www.food.gov.uk/multimedia/pdfs/board/fsa090306v2.pdf

At this meeting the UK Food Standards Agency accepted the finding of the Independent Review Panel 'that the nutrient profiling model was generally scientifically robust and fit for purpose' and considered that there was no need to modify the model for the time being. See the minutes of this meeting. http://www.food.gov.uk/multimedia/pdfs/board/ boardmins090325.pdf

Papers on the model published in peer-reviewed journals

Meanwhile the BHF Health Promotion Research Group has published a series of papers relating to the development of the model and its validation. These publications include the following:

- Rayner M, Scarborough P, Williams C. The origin of Guideline Daily Amounts and the Food Standards Agency's guidance on what counts as 'a lot' and 'a little'. *Public Heath Nutrition* 2003: 7 (4); 549-556.
- 7. Scarborough P, Rayner M, Stockley L. Developing nutrient profile models: a systematic approach. *Public Health Nutrition* 2007: 10; 330-336.
- Scarborough P, Rayner M, Stockley , Black A. Nutrition professionals' perception of the 'healthiness' of individual foods, *Public Health Nutrition* 2007: 10; 346-353.
- Scarborough P, Boxer A, Rayner M, Stockley L. Testing nutrient profile models using data from a survey of nutrition professionals, *Public Health Nutrition* 2007: 10; 337-345.
- Arambepola C, Scarborough M, Rayner M. Validating a nutrient profile model, *Public Health Nutrition* 2008: 11; 371–378.
- 11. Arambepola C, Scarborough P, Boxer A, Rayner M. Defining 'low in fat' and 'high in fat' when applied to a food. *Public Health Nutrition* 2009: 12: 341-350.

And other papers have discussed the model including:

Azais-Braesco, V, Goffi, C, Labouze, E. Nutrient profiling: comparison and critical analysis of existing systems. *Public Health Nutrition* 2006; 9(5): 613–622.

Lobstein T, Davies S. Defining and labelling 'healthy' and 'unhealthy' food. *Public Health Nutrition* 2009: 12; 331-340.

əı _{ODS} IdN	50	42	50	44	78	66	99	72	20	76	68	02	68	66	68	70	89	20	99	42	48	44	68	78	20	72	20	76	70	68	68	68	70	68	99	70	20	88	78
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Saturated fat (g) T	3.5	9	2	N	0	0.5	-	1.5	0	0	0	0	0	0	0	0	0	0	0	œ	က	ო	0	0	1.5	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0
Total fat (g)	6	12	14.5	12	0	2	10	2.5	0	0	0	0	0	0	0	0	0	0	0	19	20.5	18	16	0	÷	2.5	0	0	0	0	0	0	0	0	0	0	0	0	1.5
Total calories (Kcal)	250	300	250	240	30	115	200	100	130	100	110	0	110	120	20	0	110	0	110		340	330	330	30	245	100	130	100	0	150	150	150	0	150	160	100	0	150	150
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Individual item	Hamburger	Cheeseburger	Chicken McNuggets (4 piece) with hot mustard sauce	Chicken McNuggets (4 piece) with barbeque sauce	Apple slices (double portion)	Apple slices and kids' fries	Kids' fries (double portion)	1% low fat milk jug	Fat free chocolate milk jug	Minute Maid apple juice box	Coca-Cola Classic	Diet Coke	Sprite	Hi-C Orange Lavaburst	POWERade Moutain Blast	Iced tea	Sweet tea	Diet Dr Pepper	Dr Pepper	McDouble	Chicken McNuggets (6 piece) with hot mustard sauce	Chicken McNuggets (6 piece) with barbeque sauce	Small french fries and kids' fries	Apple slices (double portion)	Apple slices and small fries	1% low fat milk jug	Fat free chocolate milk jug	Minute Maid Apple Juice Box	Diet Dr Pepper	Dr Pepper	Orange Juice	Coca-Cola Classic	Diet Coke	Sprite	Hi-C Orange Lavaburst	POWERade Moutain Blast	Iced tea	Sweet tea	Kids' Veggie Delite® - wheat bread, no cheese
Part of kids' meal	Main	Main	Main	Main	Side	Side	Side	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Main	Main	Main	Side	Side	Side	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Main
Meal name	Happy Meal	Happy Meal	Happy Meal	Happy Meal	Happy Meal	Happy Meal	Happy Meal	Happy Meal	Happy Meal	Happy Meal	Happy Meal	Happy Meal	Happy Meal	Happy Meal	Happy Meal	Happy Meal	Happy Meal	Happy Meal	Happy Meal	Mighty Kids' Meal	Mighty Kids' Meal	Mighty Kids' Meal	Mighty Kids' Meal	Mighty Kids' Meal	Mighty Kids' Meal	Mighty Kids' Meal	Mighty Kids' Meal	Mighty Kids' Meal	Mighty Kids' Meal	Mighty Kids' Meal	Mighty Kids' Meal	Mighty Kids' Meal	Mighty Kids' Meal	Mighty Kids' Meal	Mighty Kids' Meal	Mighty Kids' Meal	Mighty Kids' Meal	Mighty Kids' Meal	Fresh Fit for Kids Meal
Restaurant	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	McDonald's	Subway
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Source: Menu composition analysis (February 2013)

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^{əJ} ODS IdN	76	78	76	72	68	72	68	82	76	72	66	66	50	40	46	48	64	64	78	62	72	70	68	70	89	68	20	66	99	66	66	66	68	20	99	20	88	44	40
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(6 _{W)} muibo ²	470	410	460	400	660	600	650	0	15	180	300	220	460	069	590	770	415	595	0	330	125	150	0	÷	23	26	0	15	4	0	÷	15	15	15	÷	0	0	540	750
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Saturated fat (g)	0.5	-	0.5	S	2.5	Ю	2.5	0	0	2.5	2	4.5	3.5	9	4.5	5.5	2	ო	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9
Total fat (g) ***	2.5	ო	CV	Q	9	6.5	5.5	0	0	3.5	8	7	8	12	26	32	÷	17	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	13
Total calories (kcal)	180	200	180	180	210	230	210	35	100	160	300	300	240	280	330	420	235	325	30	240	6	160	105	0	105	105	4	120	113	120	113	135	68	0	120	0	90	250	290
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Serving Size (g)	136	146	136	114	142	152	142	71	177	355	355	355	101	116	98	133	98	133	57	89	236	236	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	94	106
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s' Individual item	Kids' Black Forest Ham - wheat bread, no cheese	Kids' Roast Beef - wheat bread, no cheese	Kids' Turkey Breast - wheat bread, no cheese	Kids' Veggie Delite® - white bread, Amer cheese	Kids' Black Forest Ham - white bread, Amer cheese	Kids' Roast Beef - white bread, Amer cheese	Kids' Turkey Breast - white bread, Amer cheese	Apple slices	100% juice box	Low fat milk	Reduced fat chocolate milk	Reduced fat strawberry milk	Hamburger	Cheeseburger	Chicken Nuggets (4 piece) with ranch sauce	Chicken Nuggets (6 piece) with ranch sauce	Chicken Nuggets (4 piece) with sweet and sour sauce	Chicken Nuggest (6 piece) with sweet and sour sauce	Apple slices	French fries- value	Hershey's fat free milk	Hershey's 1% low fat chocolate milk	Coca Cola Classic	Diet Coke	Sprite	Dr. Pepper	Minute Maid Light Lemonade	Barq's Root Beer	Cherry Coke	Fanta Orange	Hi-C Fruit Punch	NESTEA Southern Style Iced Tea	NESTEA Sweetened Iced Tea	NESTEA Unsweetened Iced Tea	Vault	Gold Peak Unsweetened Tea	Gold Peak Sweet Green Tea	Hamburger	Cheeseburger
Part of kids' meal	Main	Main	Main	Main	Main	Main	Main	Side	Beverage	Beverage	Beverage	Beverage	Main	Main	Main	Main	Main	Main	Side	Side	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Main	Main
Meal name	Fresh Fit for Kids Meal	Fresh Fit for Kids Meal	Fresh Fit for Kids Meal	Fresh Fit for Kids Meal	Fresh Fit for Kids Meal	Fresh Fit for Kids Meal	Fresh Fit for Kids Meal	Fresh Fit for Kids Meal	Fresh Fit for Kids Meal	Fresh Fit for Kids Meal	Fresh Fit for Kids Meal	Fresh Fit for Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	BK Kids Meal	Wendy's Kids' Meal	Wendy's Kids' Meal
Artificial sweeteners Restaurant	Subway	Subway	Subway	Subway	Subway	Subway	Subway	Subway	Subway	Subway	Subway	Subway	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Burger King	Wendy's	Wendy's
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Source: Menu composition analysis (February 2013)

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aloos IAN	50	46	42	80	56	70	99	99	70	99	99	99	99	70	99	76	72	70	60	60	38	68	54	70	40	70	99	99	70	99	99	99	68	99	66	60	46	62	œ
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(6 _{UI}) _{UINIPOS}	069	490	610	250	0	10	20	0	0	10	25	15	15	0	25	2	125	170	95	06	450	290	510	960	200	45	30	40	50	40	50	210	50	70	75	310	360	290	690
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Total sugar (g)	4	÷	0	0	2	0	26	26	0	28	30	29	26	0	26	20	£	20	28	28	-	-	~	e	10	40	52	56	0	54	60	54	42	54	58	0	0	0	0
(6) ^{tet} snert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saturated fat (9)	e	2.5	4.0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	1.5	1.5	3.5	ო	5	3.5	4	4	0	0	0	0	0	0	0	0	0	0	0	1.5	7	-	3.5
(g) ¹⁶¹ fat (g)	14	÷	23	÷	0	0	0	0	0	0	0	0	0	0	0	0	2.5	2.5	5	2	6	10	0	£	~	0	0	0	0	0	0	0	0	0	0	7	10	4	17
Total calories (Kcal)	330	230	290	230	40	0	100	100	2	100	110	110	6	0	06	90	100	140	200	190	190	170	200	370	170	160	200	200	0	200	220	200	160	200	220	120	150	06	260
Serving Size (oz)						œ	œ	œ	80	œ	80	œ	8	8	8	6.75	œ	ø								16	16	16	16	16	16	16	16	16	16	•••••	_		
,205, Serving Size (g)	120	88	88	77	68	236	236	236	236	236	236	236	236	236	236	200	236	236	143	139	60	78	96	198	35	473	473	473	473	473	473	473	473	473	473	51	59	50	81
	-	e																							_		_		-	•••••							_		-
Individual item	Crispy chicken sandwich	Chicken nuggets (4 piece) with sweet & sour nugget sauce	Chicken nuggets (4 piece) with ranch dipping sauce	Apple slices	Natural-cut french fries- value	Diet Coke	Sprite	Coca-Cola	Minute Maid Light Lemonade	Hi-C Flashin' Fruit Punch	Barq's Root Beer	Fanta Orange	Pibb Xtra	Coke Zero	Dr Pepper	Juicy Juice Apple Juice	TruMoo Low Fat White Milk	TruMoo Low Fat Chocolate Milk	Chocolate Frosty Jr.	Vanilla Frosty Jr.	Cheese roll-up	Crunchy taco	Soft taco - beef	Bean burrito	Cinnamon twists	Mountain Dew A.M.	MUG Root Beer	Pepsi	Diet Pepsi	Sierra Mist	Tropicana Fruit Punch	Tropicana Pink Lemonade	Lipton Raspberry Iced Tea	Dr. Pepper	Mountain Dew Baja Blast	Original recipe chicken drumstick	Extra crispy chicken drumstick	Grilled chicken drumstick	Popcorn chicken-kids'
Part of kids' meal	Main	Main	Main	Side	Side	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Main	Main	Main	Main	Side	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Main	Main	Main	Main
Meal name	Wendy's Kids' Meal	Wendy's Kids' Meal	Wendy's Kids' Meal	Wendy's Kids' Meal	Wendy's Kids' Meal	Wendy's Kids' Meal	Wendy's Kids' Meal	Wendy's Kids' Meal	Wendy's Kids' Meal	Wendy's Kids' Meal	Wendy's Kids' Meal	Wendy's Kids' Meal	Wendy's Kids' Meal	Wendy's Kids' Meal	Wendy's Kids' Meal	Wendy's Kids' Meal	Wendy's Kids' Meal	Wendy's Kids' Meal	Wendy's Kids' Meal	Wendy's Kids' Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal
Restaurant	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Taco Bell	Taco Bell	Taco Bell	Taco Bell	Taco Bell	Taco Bell	Taco Bell	Taco Bell		Taco Bell	Taco Bell	Taco Bell	Taco Bell	Taco Bell	Taco Bell	KFC	KFC	KFC	KFC
Artificial sweeteners						•																							·										
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Source: Menu composition analysis (February 2013)

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NDI ^{SCORG}	78	60	66	60	46	86	86	76	62	70	24	84	58	38	68	70	99	70	99	99	70	99	70	70	68	70	68	68	99	70	99	99	70	99	99	99	99	66	20
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Saturated fat (g)	0	-	0.5	2.5	2.5	0.5	-	1.5	2.5	1.5	9	0.5	7	1.5	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Total calories (kcal) Total fat (y)	25	120	06	160	290	70	140	210	210	180	180	100	190	210	30	170	180	0	180	180	0	190	190	0	120	0	140	140	190	0	190	180	0	180	190	190	180	180	0
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Part of kids' meal Individual item	Green beans	Mashed potatoes with gravy	Mashed potatoes without gravy	Macaroni and cheese	Potato wedges	3" Corn on the cob	5.5" Corn on the cob	BBQ baked beans	Potato salad	Cole slaw	Biscuit	Sweet kernel corn	Macaroni salad	Cornbread muffin															rage Mountain Dew									ā	
Part c meal	Side	Side	Side	Side	Side	Side	Side	Side	Side	Side	Side	Side	Side	Side	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage														
Meal name	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal
Artificial sweeteners Restaurant	KFC	KFC	KFC	KFC	KFC	KFC	KFC	KFC	KFC	KFC	KFC	KFC	KFC	KFC	KFC	KFC	KFC	• KFC	KFC	KFC	• KFC	KFC	KFC	KFC	KFC	KFC	KFC	KFC	KFC	• KFC	KFC	KFC	KFC	KFC	KFC	KFC	KFC	KFC	• KFC
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Source: Menu composition analysis (February 2013)

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Liber (g)	0	0	0	~	~	~	2	-	-	7	2	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0	0	0	0	0	0
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Saturated fat (g)	0	0	1.5	7	2	9	3.5	7	ດ	0	2	0	0	1.5	1.5	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
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Total calories (kcal) Total calories	180	0	50	410	200	340	210	320	450	220	220	35	110	110	160	170	160	170	160	170	170	170	170	170	180	170	110	Э	0	100	110	ß	130	120	120	120	130	130	£
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Individual item	7UP	Pepsi MAX	ert Sargento light string cheese	Grilled cheese sandwich	Chicken strips (2 piece)	Jr. burger	Corn dog	Regular hot dog	Jr. deluxe cheeseburger	Tots - small	French fries - small	Apple slices	Apple slices with fat-free caramel dipping sauce	1% milk	1% chocolate milk	Lemon real fruit slush	_emon-berry real fruit slush	Lime real fruit slush	Strawberry real fruit slush	Cherry slush	Grape slush	Orange slush	Blue coconut slush	Watermelon slush	Green apple slush	Minute Maid cranberry juice slush	Coca-Cola	Diet Coke	Diet Dr Pepper	Ur Pepper	Sprite	Sprite Zero		Hi-C fruit punch	Fanta orange	Mello Yello	Minute Maid cranberry	Minute Maid orange juice	Iced tea
Part of kids' meal	Beverage	Beverage	/dess														_																				Эс	e	ge
	Be	Beve	Snack/dessert	Main	Main								_				Beverage	Beverage	Beverage		Beverage									Beverage	Beverage	Beverage	Beverage	Beverage	Beverage				Beverage
Meal name	Kids Laptop Meal Bev	Kids Laptop Meal Beve	Kids Laptop Meal Snack	Wacky Pack Kid's Meal Main									_				Beverage	Beverage	Beverage		Wacky Pack Kid's Meal Beverage									Beverage	Beverage				Wacky Pack Kid's Meal Beverage				Wacky Pack Kid's Meal Bevera
Artificial Sweeteners Restaurant	KFC Kids Laptop Meal				Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal Beverage	Wacky Pack Kid's Meal Beverage	Wacky Pack Kid's Meal Beverage		Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Sonic Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	wacky Pack Kid's Meal Beverage	Wacky Pack Kid's Meal Beverage	Beverage	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal		Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	
Restaurant	KFC Kids Laptop Meal	Kids Laptop Meal	Kids Laptop Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Sonic Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal Beverage	Wacky Pack Kid's Meal Beverage	Wacky Pack Kid's Meal Beverage	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Sonic Wacky Pack Kid's Meal	Sonic Wacky Pack Kid's Meal	wacky Pack Kid's Meal Beverage	Wacky Pack Kid's Meal Beverage	Wacky Pack Kid's Meal Beverage	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal

Source: Menu composition analysis (February 2013)

Fast Food FACTS 2013

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anoos IdN	68	70	70	70	70	68	70	99	70	99	66	68	99	66	20	99	99	68	50	99	48	50	78	68	54	76	72	70	70	70	64	70	64	64	64	50	48	50	48
(6) (1) D ^{rotein} (9)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	9	17	12	0	-	e	0	2	~	0	0	0	0	0	0	0	6	6	15	17
E.IPGL (6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~	~	-	~	~	~	ę	0	0	~	0	0	0	0	0	0	0	~	-	0	-
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(6) _{Je6ns} _{pappy}	30	0	0	2	0	29	0	36	-	32	32	19	46	32	0	36	21	23	4	4	0	e	0	80	0	0	0	13	0	0	49	0	54	50	48	0	0	4	0
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Saturated fat (9)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1.5	1.5	0	0	0	2	0	1.5	1.5	0	0	0	0	0	0	0	2	4	3.5	1.5
(6) ¹⁶¹ ¹⁶¹ (9)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	ß	7	9	0	0	13	0	7	2.5	0	0	0	0	0	0	0	17	30	21	12
Total calories (kcal)	120	5	5	20	0	110	5	140	10	120	120	70	170	120	0	140	100	06	210	170	230	210	35	85	240	80	6	150	0	2	180	0	200	190	180	280	370	410	280
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Individual item	Sweet iced tea	Raspberry iced tea	Peach iced tea	Cranberry tea	Diet green tea	Limeade	Lo-cal diet lime limeade	Cherry limeade	Lo-cal diet cherry+ limeade	Strawberry limeade	Minute Maid cranberry limeade	POWERADE Mountain Blast	POWERADE Mountain Blast slush	Ocean Water	Coke Zero	Minute Maid lemonade	Minute Maid Apple Juice Box	Green tea	Jr turkey and cheese sandwich	Kraft Macaroni and Cheese	Prime-cut chicken tenders (2 piece)	Jr roast beef	Apple slices	Apple slices with strawberry yogurt dip	Curly fries- kids	Capri Sun 100% fruit juice- fruit punch	Shamrock Farms lowfat whole milk	Shamrock Farms lowfat chocolate milk	Nestle Pure Life bottled water	Brewed Iced Tea	Pepsi	Diet Pepsi	Mountain Dew	Sierra Mist	Dr Pepper	Chicken Nuggets (5 piece) with BBQ dipping sauce	Chicken Nuggets (5 piece) with buttermilk dipping sauce	Chicken sandwich	Chicken strips, crispy (2 piece)
Part of kids' meal	Beverage	Beverage		Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage		Beverage	Beverage	Beverage	Beverage	Main	Main	Main	Main	Side	Side	Side	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Main	Main	Main	Main
Meal name	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Wacky Pack Kid's Meal	Kids Menu	Kids Menu	Kids Menu	Kids Menu	Kids Menu	Kids Menu	Kids Menu	Kids Menu	Kids Menu	Kids Menu	Kids Menu	Kids Menu	Kids Menu	Kids Menu	Kids Menu	Kids Menu	Kids Menu	Kids' Meal	K Kids' Meal	Kids' Meal	Kids' Meal
Artificial sweeteners Restaurant	Sonic	Sonic	Sonic	Sonic	Sonic	Sonic	Sonic	Sonic	Sonic	Sonic	Sonic	Sonic	Arby's	Arby's	Arby's	Arby's	Arby's	Arby's	Arby's	Arby's	Arby's	Arby's	Arby's	Arby's	Arby's	 Arby's 	Arby's	Arby's	Arby's	Jack in the Box Kids' Meal	Jack in the Box	Jack in the Box Kids' Meal	Jack in the Box						
Athlese , and score		•	•	•	•		•		•						•					•			•	•		•	•	•	٠	•		•							
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Source: Menu composition analysis (February 2013)

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eini Sodium (mg)	540	800	680	880	55	410	440	40	0	20	65	20	50	15	15	9	75	120	40	660	330	710	970	730	066	740	760	1020	1040	140	0	9	95	170	15	2J	2	Q	Q
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(9) tat snatt		0	0.5	~	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saturated fat (g)	-	9	4	9	0	~	-	0	0	0	0	0	0	0	0	0	0	2.5	0	2.5	-	0	2	ю	3.5	0	1.5	0	1.5	2.5	0	0	1.5	1.5	0	0	0	0	0
(6) ₁₉₁ (8)	4	16	÷	<u>4</u>	0	10	÷	0	0	0	0	0	0	0	0	0	0	4.5	0	12	9	9	10	17	2	-	12	2	12.5	16	0	0	7	2.5	0	0	0	0	0
Total calories (Kcal)	130	330	280	320	70	230	200	180	180	0	0	180	160	160	2	210	180	120	180	240	120	175	245	240	310	125	190	155	220	310	45	60	6	150	100	70	0	150	10
^{(zo) ƏZİS GuivnəS}								16	16	16	16	16	16	16	16	16	16	80	16														7	7	6.75	12	12	12	12
(6) _{ƏZIS} GuivnəS	100	94	105	116	76	72	60	473	473	473	473	473	473	473	473	473	473	236	473	102	51	80	104	73	97	69	62	88	8	42	88	91	207	207	200	355	355	355	355
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s [.] Individual item	Chicken strips, grilled (2 piece)	Grilled cheese	Hamburger	Hamburger with cheese	Chiquita Apple Bites with caramel	French fries- kids	Seasoned curly fries- kids	Barq's Root Beer	Coca-Cola Classic		Diet Dr Pepper	Dr Pepper	Fanta orange		Gold Peak fresh brewed iced tea	Hi-C fruit punch	Minute Maid lemonade	2% reduced fat milk	Sprite	Chick-n-Strips (2 piece)	Chick-n-Strips (1 piece)	Nuggets (4 piece) with BBQ sauce	Nuggets (6 piece) with BBQ sauce	Nuggets (4 piece) with buttermilk ranch sauce	Nuggets (6 piece) with buttermilk ranch sauce	Grilled Nuggets (4 piece) with BBQ sauce	Grilled Nuggets (4 piece) with buttermilk ranch sauce	Grilled Nuggets (6 piece) with BBQ sauce	Grilled Nuggets (6 piece) with buttermilk ranch sauce	Waffle potato fries	Fruit cup	Cinnamon apple sauce (Buddy Fruits)	Low-fat milk	Chocolate low-fat milk	Minute Maid apple juice		Iced tea- unsweetened	Lemonade	Diet lemonade
Part of kids' meal	Main	Main	Main	Main	Side	Side	Side	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Main	Main	Main	Main	Main	Main	Main	Main	Main	Main	Side	Side	Side	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage
Meal name	Kids' Meal	Kids' Meal	Kids' Meal	Kids' Meal	Kids' Meal	Kids' Meal	Kids' Meal	Kids' Meal	Kids' Meal	Kids' Meal	Kids' Meal	Kids' Meal	Kids' Meal	Kids' Meal	Kids' Meal	Kids' Meal	Kids' Meal	Kids' N	Kids' Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal
Restaurant	Jack in the Box	Jack in the Box	Jack in the Box	Jack in the Box	Jack in the Box	Jack in the Box	Jack in the Box	Jack in the Box	Jack in the Box	Jack in the Box	Jack in the Box	Jack in the Box	Jack in the Box		Jack in the Box	Jack in the Box	Jack in the Box	Jack in the Box Kids' Meal	Jack in the Box	Chick-fil-A	Chick-fil-A	Chick-fil-A	Chick-fil-A	Chick-fil-A	Chick-fil-A	Chick-fil-A	Chick-fil-A	Chick-fil-A	Chick-fil-A	Chick-fil-A	Chick-fil-A	Chick-fil-A	Chick-fil-A	Chick-fil-A	Chick-fil-A	Chick-fil-A	Chick-fil-A	Chick-fil-A	Chick-fil-A
Artificial sweeteners										•	•																												•
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Appendix C

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NDI ^{SCORE}	68	70	68	50	44	44	44	40	48	99	78	70	70	76	4	32	40	36	58	72	78	99	66	99	70	70	99	99	64	99	99	64	99	56	60	46	36	38	32
(6) _{UIƏIOI} D	0	0	0	23	17	20	21	18	7	2	e	8	œ	0	13	13	19	£	2	0	-	0	0	0	0	0	0	0	0	0	0	0	0	4	S	4	4	4	ε
(ð)	0	0	0	N	-	-	-	2	e	0	0	0	0	0	2	~	-	~	2	~	ო	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	~	0
(6 _{W)} _{WnipoS}	10	0	40	730	1240	970	1010	1000	470	40	0	115	160	25	750	960	930	006	400	30	0	105	10	40	9	40	40	45	40	65	55	80	0	70	80	75	70	70	95
(6) _{Je6ns} p _{eppy}	30	0	30	4	7	e	e	9	21	10	0	0	10	0	0	2	80	4	0	22	0	£	43	44	0	0	42	43	48	47	43	51	4	18	17	20	20	20	52
(6) _{Jebns} Ietol	30	0	30	4	7	e	e	9	21	10	30	12	22	29	0	2	80	4	0	22	15	5	43	44	0	0	42	43	48	47	43	51	41	18	17	20	20	20	22
(6) ^{tet sner} t	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saturated fat (g)	0	0	0	9	13	9	5	10	3.5	0	0	ო	1.5	0	2	œ	თ	7	~	0	0	ო	0	0	0	0	0	0	0	0	0	0	0	ო	3.5	7	0	Ø	9
Total fat (g)	0	0	0	10	30	6	80	13	17	0.5	0	4.5	2.5	0	12	13	18	17	œ	0	0	4.5	0	0	0	0	0	0	0	0	0	0	0	4.5	ß	6	15	15	13
Total calories (kcal)	110	0	110	310	490	300	280	400	400	60	160	120	150	120	220	320	400	290	190	06	110	110	160	160	0	0	150	170	180	160	160	190	210	170	180	220	240	140	220
(so) ⁹⁵ⁱ Ze (oz)	12	12	12								11.5	8	80	œ								ø	12	12	12	12	12	12	12	12	12	12	12				_		-
(b) _{ƏZİ} S Bu _{livuƏS}	355	355	355	139	218	139	139	143	118	57	340	236	236	236	81	103	156	110	71	113	126	236	355	355	355	355	355	355	355	355	355	355	355	66	66	106	87	87	87
	_								af						_										_				_								_		_
- Individual item	Coca-Cola	Diet Coke	Dr Pepper	Roast beef deli sandwich on all-natural white loaf	Mac & cheese	Smoked ham deli sandwich on all natural white loaf	Smoked turkey deli sandwich on all natural white loaf	Grilled cheese sandwich on all natural white loaf	Peanut butter and jelly sandwich on all natural white lo	Organic yogurt (blueberry, strawberry)	Premium orange juice	Organic milk	Organic chocolate milk	Organic apple juice	Chicken strips (2 piece)	Iron grilled cheese sandwich	Original cheeseburger	All-beef hot dog	French fries - kids'	Applesauce	Banana	2% milk	Coca-Cola	Pepsi	Diet Coke	Diet Pepsi	Sprite	Sierra Mist	Barq's Root Beer	Mug Root Beer	Dr Pepper	Mountain Dew	Arctic Rush, all flavors			Ż			sert Heath Dilly Bar
Part of kids' meal	Beverage	Beverage	Beverage	Main	Main	Main	Main	Main	Main	Side	Beverage	Beverage			Main	Main	Main	Main	Side	Side	Side	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Beverage	Snack/dessert	Snack/dessert	Snack/dessert	Snack/dessert	Snack/dessert	Snack/dessert
Meal name	Kid's Meal	Kid's Meal	Kid's Meal	Panera Kids	Panera Kids	Panera Kids	Panera Kids	Panera Kids	Panera Kids	Panera Kids	Panera Kids	Panera Kids	_	Panera Kids	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal	Kid's Meal
Restaurant	Chick-fil-A	Chick-fil-A	Chick-fil-A	Panera Bread	Panera Bread	Panera Bread	Panera Bread	Panera Bread	Panera Bread	Panera Bread	Panera Bread	Panera Bread	Panera Bread	Panera Bread	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen	Dairy Queen
Artificial sweeteners		•																							•	•													
aroos IdN XutheaH		•								•	•	•	•	•						•	•				•	•													
																											_												

Source: Menu composition analysis (February 2013)

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tion information for kids' meal menu items	
kids'	
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information	
C1. Nutrition	
2.	
Table (

Ph ^{SCOLG}	36	32	54	56
(6) Ulein (9)	ო	ო	ო	4
Eiper (3)	0	0	2	-
(gm) muibo2	80	105	60	135
(6) _{Yaqa} a (6)	20	20	2	18
(6) ^{Jebus} (6)	20	20	2	18
(6) ^{jej suej} t	0	0	0	0
(6) ^{jej p} eje ^{jnje} S	œ	6	10	ę
(6) _{JEJ (} EJO)	12	5	13	Q
Lotal calories (Kcal)	210	210	190	190
^{(ZO) ƏZ!} S GUINIƏS				
⁽⁶⁾ ^{ƏZI} S GuivuəS	88	87	88	85
Individual item	ert Cherry Dilly Bar	ert Butterscotch Dilly Bar	ert No Sugar Added Dilly Bar	ert DQ Sandwich
f kids'	ວົ	Butterscotch Dilly		
Part of kids' meal Individual item		itterscotch Dilly	Snack/dessert No Sugar Added Dilly Bar	Snack/dessert DQ Sandwich
f kids'	ວົ	Butterscotch Dilly		
Part of kids' Meal name meal	Kid's Meal Snack/dessert Ch	Kid's Meal Snack/dessert Butterscotch Dilly	Kid's Meal Snack/dessert	Kid's Meal Snack/dessert
Part of kids' meal	Snack/dessert Ch	Kid's Meal Snack/dessert Butterscotch Dilly	Kid's Meal Snack/dessert	Kid's Meal Snack/dessert
Part of kids' Restaurant Meal name meal	Kid's Meal Snack/dessert Ch	Kid's Meal Snack/dessert Butterscotch Dilly	Snack/dessert	Kid's Meal Snack/dessert
Antificial sweeteners Part of kids' Meal name meal	Kid's Meal Snack/dessert Ch	Kid's Meal Snack/dessert Butterscotch Dilly	Kid's Meal Snack/dessert	Kid's Meal Snack/dessert
Part of kids' Restaurant Meal name meal	Kid's Meal Snack/dessert Ch	Kid's Meal Snack/dessert Butterscotch Dilly	Kid's Meal Snack/dessert	Kid's Meal Snack/dessert

Fast Food FACTS 2013

Source: Menu composition analysis (February 2013)

Table C2. Nutrition information for products advertised on children's networks

Nbl ^{Score} brotein (g) Fiber (g)	80	1 0 78	0 9 72	1 9 44	1 1 66	0 8 72	2 16 40	10 40 64	6 44 44		10 38 68		10 36 74	6 39 60	16 42 70	14 48 58	4 39 44	3 40 46	3 42 50	3 37 36			3 31 48	3 72 40	£		5	7	4 38 50	2 18 48	2 15 62	2 15 50	1 19 60	4 30 64	1 17 44	1 17 44	3 34 70	1 18 48	α
Total Sugar (g) Sodium (mg)	10 415	0 9 0	0 12 125	0 10 620	0 3 70	0 12 125	0 6 1550	0 16 2600	1 18 4040	0 18 2470	0 12 1780	0 10 1880	0 14 1620	0 15 2810	1 24 1900	2 36 3640	0 9 1780		0 9 1530	.5 7 1450	3 10 2020	5 10 1530			0 28 95	0 42 140	28	40	0 8 1630	4	0 4 720	4	0 3 740	0 8 1290	0 1 850		9	0 7 970	
^{Saturated Fat} (g) Trans Fat (g)			0			1.5	10	12	21	11.5	0	9	7	10.5	14	23	12		10	18	27	21 2.5	14	30		2		4.5	10	9	4	e	3.5					9	-
Total Fat (g) Total Fat (g)	235 11	30 0	0 06	240 12	115 5	100 2.5	480 32	820 32	1140 65	960 41	720 24	640 16	560 7	890 39	960 36	1400 71	730 38	710 37	570 27	660 39	970 63	800 48	580 33	1060 67	200 5	300 8		280 7	650 29	400 20	380 20	330 14	260 10	560 23	350 17	340 16	400 10	510 26	000
(6) ^{Serving} Size (9)	98	57	236	93	65	236	196	452	514	527	348	348	438	498	602	782 1	267	270	268	219	312	337	250	426 1	143	214	139	214	286	154	157	120	122	250	126	122	234	191	Ċ
Individual tem	Chicken nuggets (4 piece) with sweet and sour dipping sauce	Apple slices	Hershey's fat free milk	Chicken McNuggets (4 piece) with barbeque sauce	Apple slices and kids' fries	1% low fat milk jug	Wholly guacamole hot dog	Footlong Italian B.M.T.® - 9-grain bread, cheese, no condiments	Footlong Italian B.M.T.® - parm bread, cheese and mayo	Footlong oven roasted chicken breast - parm bread, American cheese and mayo	Footlong omelet sandwich w/egg and cheese on 9-grain bread	Footlong omelet sandwich w/egg white and cheese on 9-grain bread	Footlong turkey breast - 9-grain bread, no cheese or condiments	Footlong turkey breast - parm bread, Amer cheese and mayo	Footlong meatball marinara- 9-grain bread, cheese, no condiments	Footlong meatball marinara- parm bread, cheese and mayo	es Asiago ranch club w/homestyle chicken	es Asiago ranch club w/spicy chicken	es Asiago ranch club w/ultimate chicken grill	Bacon portabella melt	Baconator	1/2 lb (double)	1/4 lb (single)	3/4 lb (triple)		Chocolate Frosty, small	Vanilla Frosty Jr.	Vanilla Frosty, small	Mozzarella chicken supreme	Monterrey ranch crispy chicken sandwich	Crispy chicken sandwich	Crispy chicken sandwich, kids' size	Grilled chicken go wrap	Homestyle chicken fillet sandwich	Homestyle chicken go wrap	Spicy chicken go wrap	Ultimate chicken grill sandwich	Premium cod fillet sandwich	
Food item or category advertised*	g BK Kids' Meal	Burger King BK Kids' Meal	Burger King BK Kids' Meal	McDonald's Happy Meal	s Happy Meal	McDonald's Happy Meal	Wholly guacamole hot dog	5 dollar footlongs	5 dollar footlongs	5 dollar footlongs	5 dollar footlongs	5 dollar footlongs	5 dollar footlongs, Footlong turkey breast	5 dollar footlongs, Footlong turkey breast	Meatball marinara	Meatball marinara	Asiago ranch chicken club, Premium chicken sandwiches Asiago ranch club w/homestyle chicken	Asiago ranch chicken club, Premium chicken sandwiches Asiago ranch club w/spicy chicken	Asiago ranch chicken club, Premium chicken sandwiches Asiago ranch club w/ultimate chicken grill	Bacon Portabella Melt	Baconator	Dave's Hot N' Juicy	Dave's Hot N' Juicy	Dave's Hot N' Juicy	Frosty	Frosty	Frosty	Frosty	Mozarella chicken supreme	Premium chicken sandwiches	Premium chicken sandwiches	Premium chicken sandwiches	Premium chicken sandwiches	Premium chicken sandwiches	Premium chicken sandwiches	Premium chicken sandwiches	Premium chicken sandwiches	Premium cod fillet sandwich	
Restaurant	Burger King	Burger Kin	Burger Kin	McDonald	McDonald's	McDonald'	Sonic	Subway	Subway	Subway	Subway	Subway	Subway	Subway	Subway	Subway	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	A 1 1 - 1 -

Source: Menu composition analysis (February 2013); TV advertising content analysis (2012)

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Fast Food FACTS 2013

Table C2. Nutrition information for products advertised on children's networks

<u> </u>	46	40	44	72	68	74	66	46	32	46	64	70	72	74	62	72	68	76	20	70	
Nbl ^{Score}	8					6 7	18 6					19 7	36 7		8			3 7			
(6) UIÐIOJOJ		27	2	17	22		·	17	39	4	31			38		23	44		23	41	
E!P ^{GL} (д)	-	-	2	9	9	10	8	-	7	4	e	4	9	~	7	4	e	2	e	5	
(Gw) wnipos	490	1080	930	880	1340	240	1200	940	1760	1790	1140	800	1170	1100	515	820	1620	250	1020	1340	
Total Sugar (g)	£	S	S	9	7	29	4	4	6	ດ	8	22	31	31	e	4	2	e	4	4	
(6) ₁₈₃ sueri	0	1.5	-	0	0	0	-	~	1.5	0	0	0	0	0	0	0	0	0	0	0	
S ^{aturated} Fat (g	2.5	6	6	2.5	9	2	£	5	18	4	9	4.5	80	9	4.5	7	12	0	œ	4	
Total Fat (g)	7	21	24	9	12.5	6	30	19	43	42	22	18	23	16	17.5	20	30	С	27	39	
Total Calories (K	230	400	400	210	310	380	570	370	700	770	530	340	520	460	250	300	490	105	440	660	
(6) ^{ƏZİ} S GUİNJƏS	88	166	161	227	233	307	280	207	218	315	231	283	433	433	142	247	449	142	290	435	
Individual item	4 Piece chicken nuggets w/sweet & sour nugget sauce	Double Stack TM	Jr. bacon cheeseburger	Small chili	Small chili w/ hot chili seasoning, saltine crackers, and cheddar cheese	Baked sweet potato	Chili cheese fries	Vermont cheddar mac & cheese	Son of Baconator	Spicy guacamole chicken club	s Spicy chicken fillet sandwich	Apple pecan chicken salad- half size w/roasted pecans and pomegranate vinaigrette	Apple pecan chicken salad w/roasted pecans and pomegranate vinaigrette	Berry almond chicken salad	Caesar side salad w/croutons and lemon garlic caesar dressing	Chicken BLT cobb salad- half size w/avocado ranch dressing	Chicken BLT cobb salad w/avocado ranch dressing	Garden side salad with croutons	Spicy chicken caesar salad- half size w/croutons and lemon garlic caesar dressing	Spicy chicken caesar salad w/croutons and lemon garlic caesar dressing	(0010) and and their (0010)
Restaurant Food item or category advertised⁺	Right Price Right Size Menu	Right Price Right Size Menu	Right Price Right Size Menu	Right Price Right Size Menu	Right Price Right Size Menu	Signature sides	Signature sides	Signature sides	Son of Baconator	Spicy chicken guacamole club	Spicy chicken sandwich, Premium chicken sandwiches	Wendy's salads	Wendy's salads	Wendy's salads, Berry almond chicken salad	Wendy's salads	Wendy's salads	Wendy's salads	Wendy's salads	Wendy's salads	Wendy's salads	Courses Marsus association and sing (Fahrunan 10040). TV addising association (10040)
Restaurant	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	Wendy's	