Can Health Claims for Foods Help Consumers Choose Better Diets?

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Abstract
Consumers are becoming health-conscious and most agree that eating healthily is a better way to manage illness than using medication. This has led to the increased acceptance and consumption of functional foods with health-promoting capabilities, demonstrated by impressive growth in sales worldwide. Functional foods certainly have the potential to assist in disease management or reduction of risk and their use is being increasingly recommended in both medical and dietetic practice. There is an observed ‘push’ from food companies seeking out new markets and profit opportunities, with a concurrent market ‘pull’ from an educated, health-conscious consumer with a higher disposable income. However consumer attitudes to health claims for foods need to be understood if the promise of functional food to improve health is to be realised. One their own, health claims on foods are unlikely to have any significant impact on eating behaviour. The potential barriers are many, including lack of awareness or notice of the claims, misunderstanding of their meaning, and lack of interest or trust in the claims. Long term behaviour change can only be achieved through a comprehensive education and marketing effort. It has been suggested that examination of successful campaigns can provide some generalisations about how to ensure that claims are effective: • Claims target a specific population segment • Claims receive significant media attention • Claims are introduced with an aggressive marketing campaign • Claims highlight quantitative health benefits • Claims relate to personally relevant health problems.

Keywords
health claims, functional foods, consumers, food labels

Disciplines
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Consumers are becoming health-conscious and most agree that eating healthily is a better way to manage illness than using medication [1]. This has led to the increased acceptance and consumption of functional foods with health-promoting capabilities, demonstrated by impressive growth in sales worldwide [2]. Functional foods (those marketed with scientifically substantiated claims to improve health and well-being) certainly have the potential to assist in disease management or reduction of risk [3] and their use is being increasingly recommended in both medical and dietetic practice [4, 5]. There is an observed ‘push’ from food companies seeking out new markets and profit opportunities, with a concurrent market ‘pull’ from an educated, health-conscious consumer with a higher disposable income. However consumer attitudes to health claims for foods need to be understood if the promise of functional food to improve health is to be realised [6].

Health claims – that is, claims that a food can provide a particular health or performance benefit above the effects of normal nutrition - are seen by many companies as essential tools for the successful marketing of new foods with innovative bioactive ingredients, but they can also be used to promote increased consumption of traditional unprocessed foods with demonstrated health benefits, such as oats, nuts and soybeans. The American Dietetic Association supports the use of health claims that have been pre-approved by the US Food and Drug Administration (FDA), but also stresses the importance of health claims on foods being supported by an adequately funded public program of nutrition education and health promotion [7]. Without this, it is claimed, there is the possibility that consumers will receive unbalanced messages, with greater advertising of value-added highly processed products rather than basic foods such as vegetables and fruit, or that health claims could have negative effects such as preoccupation with specific diseases, distortion of dietary habits, oversimplification of dietary guidance and erosion of confidence in information on the food label.

Nutrient content and function claims are commonly found on food products throughout the world, however the regulation of health claims varies widely. In many countries such claims are forbidden, or permitted only after approval by a national regulatory body. [8].
Prohibiting health claims has not prevented the proliferation of a wide number of potentially confusing or misleading claims on food products that may be interpreted by consumers as implied health claims. According to one commentator, manufacturers have “made the formulation of soft claims into a fine art, creating claims that imply health effects without actually naming a disease” [3].

There are a number of studies that have indicated that nutrition claims (such as “fat free”) are appealing to consumer and influence purchase [9]. Such claims may, however, not necessarily lead to better diet choices overall. The goal of reducing dietary fat appears to have supplanted the larger goal of balanced healthy eating, and it is notable that in the USA, although fat intake has declined as a percentage of energy over the past 25 years, the prevalence of obesity has dramatically increased [10].

It is less clear what the influence of health claims is on consumers. A recent review of the use and understanding of health claims found very few studies that had examined the impact of health claims on actual purchase behaviour or health outcomes, although the results from all the studies that have examined consumer reactions to particular claims are consistent with the proposition that health claims can support improved nutrition awareness and better food choices [11]. Some common findings from the studies were:

- Health claims on foods are seen by consumers as useful and when a product features a health claim they view it as healthier and state they are more likely to purchase it
- Consumers are sceptical of health claims from food companies and strongly agree with the idea that health claims should be approved by government
- Consumers do not make clear distinctions between nutrition content claims, structure-function claims and health claims

Using the Theory of Planned Behavior, one recent study concluded that belief in the effectiveness of the functional ingredient (ie belief in the health claim) was the most important factor determining consumer intention to use a functional food [12]. Another theoretical model that has been applied to the study of the impact of health claims is the
Attitude-Social influence-Self-efficacy (ASE) model [13]. It notes several key steps that are needed for a health claim to influence consumer food behaviour: 1) exposure and attention to the claim; 2) understanding of the claim; 3) changes in attitudes and belief (related to personal relevance and trust in the claim); and 4) maintenance of behaviour change.

**Exposure and attention to claims**

In order for health claims to have an impact on purchasing behaviour, consumers have to be exposed to them. In the US, where health claims have been permitted now for over 10 years, it is noticeable that the proportion of packaged foods carrying claims is still relatively low. Several surveys of supermarket products and print advertisements for food have found only 2-4% of products with health claims, a level largely unchanged from 1997 to 2001 [14-16]. Similar levels have been found in a recent survey in Australia, where most health claims are still illegal, demonstrating that monitoring of compliance with regulations is not always rigorous [17]. Generally claims are more common in particular food segments such as breakfast cereals, fat spreads, and dairy products.

A variety of surveys have indicated that health claims are seen by consumers as useful and desirable. In Canada a telephone survey about products with functional benefits reported that more respondents believed that packaging should promote the health benefit it provides, rather than only the presence of the component itself [18]. In other words, they preferred health claims to content claims and 47% rated them as very useful compared to less than 10% who saw little or no value for them. Similar supportive views have been found amongst consumers in Scandinavia [19], the UK [20] and the US [21]. The reasons for liking health claims seem to be related to general difficulties in interpreting existing nutrition information on labels.

While consumers may say that health claims are useful, the extent to which they use them is less clear. It has been suggested that the impact of claims is greatest on those who already tend to buy a particular type of product; people are unlikely to buy a new type of
product just because of a health claim [22]. It is clear that usage is generally higher in those who are better educated, older, female and with an interest in nutrition [21, 23].

Most studies in the UK, Scandinavia, the Netherlands and the US report that claims about prevention of chronic diseases or health enhancement are of more interest to consumers than claims about normal physiological function or health maintenance [19, 24, 25]. It is also a common finding that consumers do not make clear distinctions between nutrition claims and health claims [26-28]. Once consumers are familiar with a nutrient-disease relationship (e.g., calcium and bone health) a mere nutrient content claim may be interpreted as a health claim.

Several experimental studies have also found a preference for shorter or split claims (with a short claim on the front and more detailed information elsewhere on the pack). The presence of short health claim on the front label generates more thoughts and creates a more believable and positive image in the consumers’ mind than does a longer health claim [29]. In fact consumers who were given longer claims were no more likely to believe in the claimed health benefit than those who saw no front label information.

**Understanding of claims**

A lack of nutrition knowledge can limit consumers’ abilities to understand or evaluate a health claim [30] and this lack of understanding can diminish the credibility of claims. Consumers generally don’t like complex, scientifically-worded claims on foods. In some studies consumers seem particularly sceptical of claims with qualifying words such as “may” or “could” [26, 30]. However, in one US study consumers were wary about claims that were too broad or absolute to be credible and preferred “may reduce” or “helps reduce” claims [31]. Australian research suggests mixed reactions to claims qualified with words such as “may”, with some consumers reporting reduced confidence with such wording due to the implied uncertainty, while others feel enhanced confidence because it is more realistic [28].
The accuracy of consumers’ interpretation of health claims has been examined in only a few studies. When primary shoppers were shown various labels for canned soup, a claim of “healthier” resulted in a slightly more favourable and misleading evaluation of the sodium content of the product, but the claim had no significant effect on belief that consumption would reduce disease risk [32]. One Australian study found that even though products with claims were regarded as healthier, 82% consumers disagreed that eating them meant it was less important for them to watch what else they ate; in other words the concept of the need for an appropriately balanced diet is not lost in the presence of health claims [33].

**Changes in attitudes and belief**

There is a high level of consumer scepticism about all aspects of information on food labels, including health claims, and concern is often expressed over manufacturers using claims just as a sales tool [30]. Trust in health claims is not necessarily related to the strength of promise made in the claims [27] and messages are more likely to be believed when they repeated frequently by different and trusted sources [26]. Most studies show strong agreement from consumers with the idea that health claims should be approved [21, 22, 31]. Endorsement by authoritative independent organisations increases trust in health claims made on food labels [23, 28].

A number of studies have been conducted with consumers, showing them mock food packs with variations in labelling format, to evaluate the impact of health claims on beliefs and attitudes about the product. The largest study of this kind was one conducted for the FDA, using interviews with 1403 primary food shoppers in eight cities across the US. The study used three products and ten label formats, testing the effect of different lengths of claims, their position on the label and types of endorsement on consumers’ evaluation of product healthiness and purchase intent [34]. Some of the main findings were that:

- when a product features a health claim, respondents view the product as healthier and state they are more likely to purchase it
• brief health claims were more effective than long ones and there was no indication that short health claims encouraged inappropriate or exaggerated beliefs about products health benefits compared to long claims
• claims that provided new information had a positive effect on attitude to the product; claims that provided no new information had no effect
• health claims seemed to have limited ability to communicate educational information; more than 20% respondents did not acknowledge that a product had any health benefits even when carrying an explicit claim
• perception of health benefits seemed largely based on prior beliefs about the product rather than specific information provided by the claims.

Some of these findings have been replicated in other studies, but not all. The most consistent finding is that health claims do increase consumers’ expectations about the healthiness of a product and produce more positive attitudes toward its nutritional value [11]. This influence can result in a general “halo” effect, affecting belief about nutritional attributes unrelated to the health claim [35].

Some studies have supported the FDA finding that the presence of a health claim is associated with a greater probability that a search for information is more limited, ignoring the nutrition information panel, especially for those consumers with lower education [36]. However this is not a consistent finding. One survey of US shoppers found they relied on the nutrition facts panel to a greater extent than they do on claims on the front of pack [37]. Another reported that when claims about heart health and four different versions of a nutrition facts panel were presented together, the health claim had no significant effect on product evaluation; consumers could correctly interpret the nutrition information panel even in the presence of contradictory health claims [38]. Similarly, a study of the influence of claims and nutrient information for restaurant menu items found that participants were not easily mislead by claims that were not consistent with nutrient levels in the products [39].
Several studies support the FDA finding that health claim information that is new or unfamiliar has greater impact. Other factors that have been reported to influence consumer acceptance of a health claim are medical community support for the claim and whether consumers have an interest in nutrition information generally.

**Effects on behaviour**

Although surveys of consumer opinions and experimental studies are useful, on their own they are not sufficient to evaluate the ultimate impact of health claims on consumer behaviour and health outcomes. In reality, it is known that what consumers say in surveys and focus groups often does not translate into behaviour in the supermarket.

A few studies attempting to measure the effect of claims on purchase behaviour have relied on examining sales data and correlating this with presence or absence of health claims. It has been claimed by some food companies that health claims can grab the attention of consumers and increase the consumption of healthful products. There have been positive increases in sales of oats, high-fibre and folate-enriched breakfast cereals, and cooking oils after claims or media coverage about the health benefits of these products [40].

There is one study that has attempted to relate use of health claims with diet quality [41]. It compared the Healthy Eating Index (HEI) score – a measure of total diet quality – of individuals before and after using different food label elements. The results show that label use generally has a positive effect on improving diet quality and that improvement is highest when consumers use health claim information on the label - greater than the effect of use of ingredient lists, nutrient content claims, serving size or the nutrition panel.

However there are many areas that require further investigation. We know little about how health claims on products affect consumer behaviour compared to claims made in advertising or on the internet, and there are no studies that have looked at the reactions of children or adolescents versus adults.
Conclusions

One their own, health claims on foods are unlikely to have any significant impact on eating behaviour. The potential barriers are many, including lack of awareness or notice of the claims, misunderstanding of their meaning, and lack of interest or trust in the claims. Long term behaviour change can only be achieved through a comprehensive education and marketing effort. It has been suggested that examination of successful campaigns can provide some generalisations about how to ensure that claims are effective [42]:

- Claims target a specific population segment
- Claims receive significant media attention
- Claims are introduced with an aggressive marketing campaign
- Claims highlight quantitative health benefits
- Claims relate to personally relevant health problems.

For health professionals working to improve the food choices of individuals these suggestions for food companies provide some guide about how to help consumers use health claims effectively. Countries that permit health claims have established rigorous processes to evaluate the scientific evidence substantiating approved health claims [43]. Patients with particular diet needs should be encouraged to look for claims relevant to them and reassured to trust their accuracy. Health practitioners need to be able to translate the benefits of claims into quantifiable potential benefits for individuals and include information on functional food options in dietary advice strategies. At a broader level they should work with food companies to leverage their marketing capacity to ensure accurate diet and nutrition messages are communicated to the public whenever functional foods are promoted with health claims.
References


