Consumer perceptions of nutrition and health claims

M.H.A. Binnekamp, J.C.M. van Trijp and I.A. van der Lans





Outline presentation

Introduction

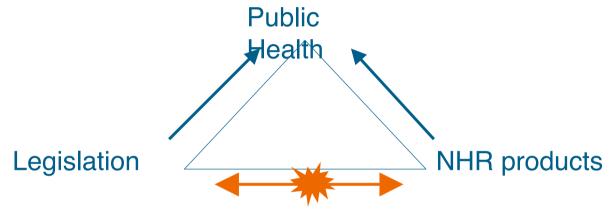
- Problem statement & Theoretical background
- Study design
- Results
- Conclusions & future research





Introduction

Potential of Nutritional and Health-Related claims



- New EU legislation
 - Harmonise over Member States (art 1.1)
 - Allow higher level claims with strict demands
 - Prohibit certain type of benefit claims
 - No claims on certain products (nutritional profile)



Problem statement

- Implicit EU-legislation assumptions:
 - 1) No country-specific consumer effects
 - 2) Consumers differentiate on claims strength level
 - 3) Consumers perceive soft and hard benefits different
 - (Nutritional profile not considered, yoghurt as base product)
- Problem statement:
 - We know very little about consumers & health claims
 - Lack of systematic research in this area
 - Average consumer?



Relevant insights from consumer science

- Most consumers are not nutritionists
 - Simplified processing of information
 - Often with limited nutritional involvement and knowledge
 - Yet for health they have to rely on 'our' information
 - Their understanding is not necessarily our understanding
 - Health claims are a powerful tool, if correct and relevant
- Health claims should take this into account
 - to motivate & educate consumers to healthier choices
 - to protect consumers against wrong inferences



Theoretical background

- Increasing use of claims (Caswell et al 2003; Parker, 2003)
- Potential product biases (Roe et al. 1999)
 - Overrating, HALO effect, 'magic bullet' effect
- Information search? (E.g. Keller et al. 1997 vs Roe et al. 2003)
- Claim strength (e.g. Bech-Larsen and Grunert 2003)
 - → knowledge gap on consumer perceptions of different health claims



This research

- Research objective
 - Understand how consumers perceive and interpret alternative health claims formats for foods
- Research questions
 - How do consumers evaluate alternative health claims?
 - What differences between countries, claimed benefits, claim types?
- Empirical design
 - Four countries: USA (n=1621), UK (n=1560), Germany (n=1620), Italy (n=1566)
 - Internet panel
 - · Representative for gender and age
 - Good spread in educational level
 - Yoghurt with taste claim as base product



Study design

Six health benefit types included

- 1. Established physiologically based:
- 2. Psychologically based disease :
- 3. Strengthen normal function
- 4. Physical performance
- 5. Weight management
- 6. Cognitive performance

cardiov. disease & plant sterols stress & valerian extract intestinal infections & probiotics fatigue & slow release CH overweight & added fibres lack of concentration & caffeine

For each health benefit type, five claim levels included

- 1. Content claim
- 2. Function claim
- 3. Product claim
- 4. Disease risk reduction claim
- 5. Consumer benefit claim



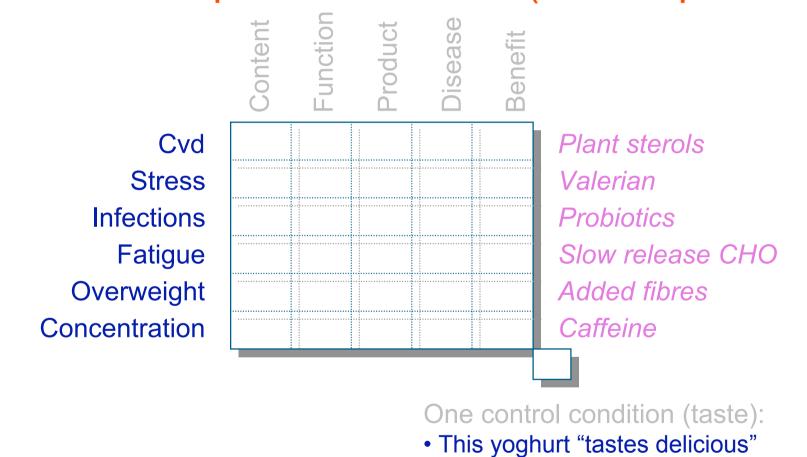
Example of the claims: 1. Physiological

Content	Contains plant sterols
Function	Helps lower LDL-cholesterol levels,
	because it contains plant sterols
	•
Product	Helps lower LDL cholesterol levels
	•
Disease	May reduce the risk of cardiovascular
	disease, because it contains plant sterols
\checkmark	
Benefit	Helps you live a healthy live,
	because it contains plant sterols



Study design

30 claims plus one control (N=100 per cell)





Analysis strategy

Model selection from exploratory ANOVA's

Dependents:

 Health impact, consumer appeal, newness and difficulty to understand

Independents:

- Benefit, claim level, country
- All first order interaction with benefit, claim level, country
- Healthy food choices, nutritional knowledge, overall health, confidence in functional foods (controlled/covariate)
- Age, education, gender, kids in household (controlled/covariate)

And: same analysis by Country & Benefit



In short: **Consumer evaluation Benefit** •Healthiness 6 types Appeal Strength Newness Claims 5 levels Difficulty to Country understand 4 countries Personal **Characteristics** Controlled for background variables



Conclusions

- Relevant differences between countries
 - Legislation should leave sufficient flexibility
- Little effect of claim-strength level
 - Discussion on claim strength level seems irrelevant
- Appeal 'hard' benefits (CVD, weight) higher than 'soft' (concentration)
 - Chance to influence public health
 - Prohibition necessary?



Future research

Limitations

- Not generalizable to other countries
- Internet panel
- Wording of specific claim
- Mentioning ingredients

Future research

- Consumer background characteristics (Van Trijp & Van der Lans, forthcoming)
- In-depth, qualitative research on claim perception
- New countries & claims
- Other food products



