

# Health claims regulation – opportunities and challenges in Europe – examples from the Bacchus project

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- Superfoods – missing link between diet and health or just hype and a distraction?



- Regulatory framework

- EU Bacchus project

**Cheat death.**

The antioxidant power of pomegranate juice:



Drink to prostate health.



# Lots of claims out there but are they legal?

- Claims about 'superfoods' - are they supported by **robust evidence**?
- Tests carried out on vitamin and mineral supplements by West Yorkshire councils have shown that **88% of products used illegal health claims** (2014)
  - e.g. for digestive support and joint pain
- Small businesses particularly susceptible as they may lack the necessary expertise in food law and in nutrition science.



# Saskatoon Berries

“Grow your own super-food collection of highly nutritious berry plants”

- “[These] are amazingly rich in antioxidants,” says the holistic nutritionist. “What gives them that beautiful purple-blue colour are anthocyanins, which are amazingly good for heart health, so they’re very anti-inflammatory.” They’re also high in fibre.





# Nutrition and health claims regulation



- The use of nutrition claims and health claims in the UK is controlled by a European Regulation (EC 1924/2006).
- Provides a comprehensive approach to the control of these claims
  - Ensures they are scientifically valid
  - Harmonises claims across the European Union
- The overall aims are to:
  - Provide useful and reliable information to consumers
  - Encourage innovation in food industry.
- Enforcement – via Member States

- Covers all foods, drinks and supplements sold in the EU
- Applies to all commercial communications, including food labels, advertorials and other promotional materials.
- Not covered – claims about preventing, treating or curing disease; claims on alcoholic beverages (>1.2% alcohol)

# General principles



In addition to being **scientifically valid**, the following **five** principles must be followed. The claim **must not**:

- Be false or ambiguous
- Give rise to doubt about the safety and or the nutritional adequacy of other foods
- Encourage excess consumption
- State, suggest or imply that a balanced and varied diet cannot provide appropriate quantities of nutrients in general
- Refer to changes in bodily functions which could give rise to fear in consumers.

# Health claims in Europe

A health claim may be featured on the packaging if a food or one of its ingredients has been agreed by EFSA experts and the EC to provide health benefits.

A list of permitted and rejected health claims was published in November 2011 by the European Commission. This is now available on the online register at <http://ec.europa.eu/nuhclaims/>

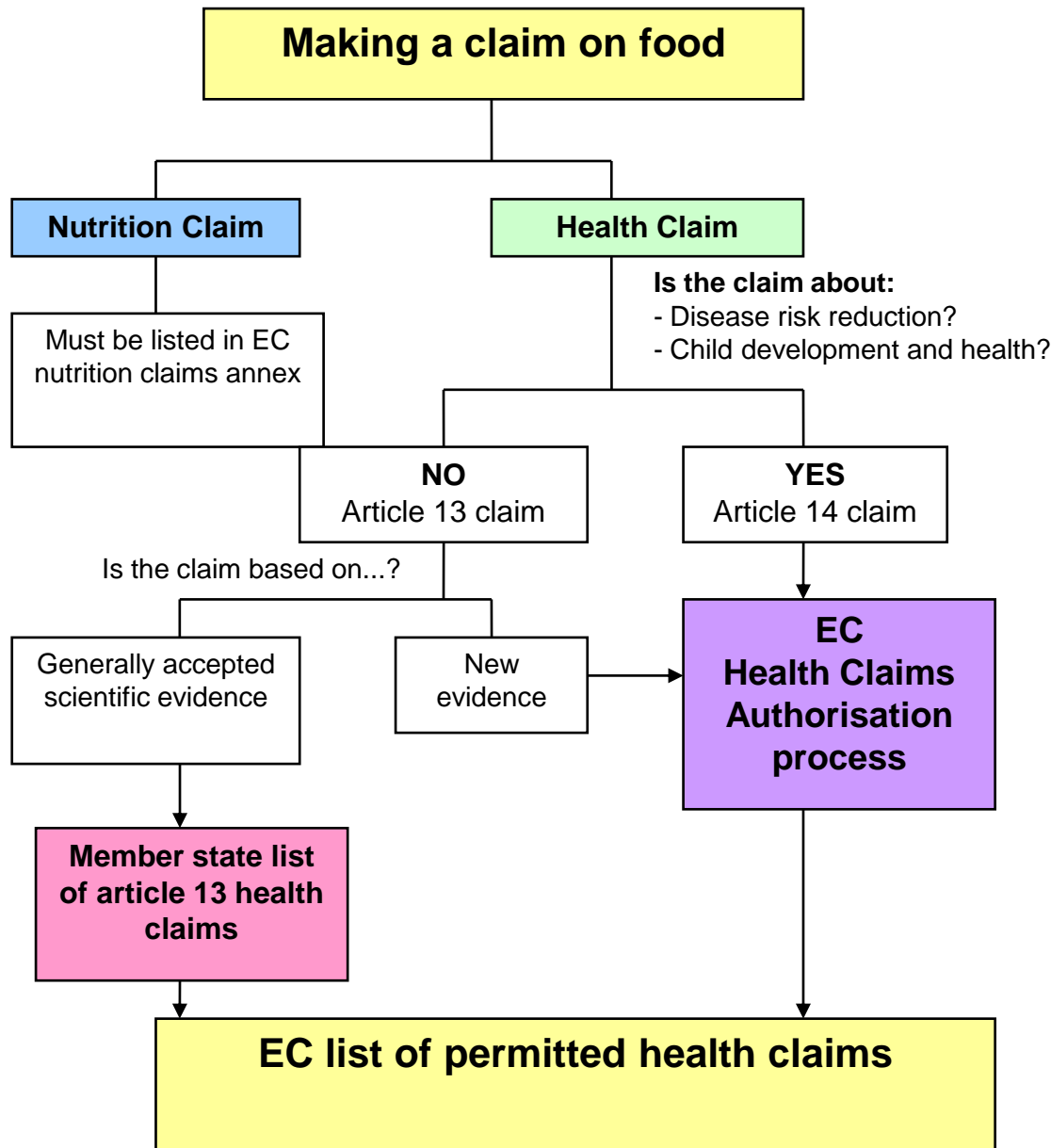
In order to make a claim, the amount present of the nutrient, substance or food must fulfil the conditions of use of the claim.



# Health claims

- **Article 13.1** are those based on generally accepted scientific evidence (*e.g.* calcium contributes to normal muscle function)
- **Article 13.5** are those based on newer evidence (*e.g.* cocoa flavanols help maintain endothelium-dependent vasodilation which contributes to healthy blood flow)
- **Article 14** are those relating to either:
  - Reduction in disease risk (**14a**) (*e.g.* plant sterols have been shown to lower/reduce blood cholesterol. High cholesterol is a risk factor in the development of coronary heart disease)
  - Children's health and development (**14b**) (*e.g.* iodine contributes to the normal growth of children).





# Examples of health claims

- *Folate contributes to maternal tissue growth during pregnancy.*
- *Calcium is important for normal growth and development of bones in children.*
- *Oat beta-glucans have been shown to lower/reduce blood cholesterol. High cholesterol is a risk factor in the development of coronary heart disease.*
- *Cocoa flavanols help maintain endothelium-dependent vasodilation, which contributes to normal blood flow.*



Complete list: EU register of nutrition and health claims  
<http://ec.europa.eu/nuhclaims/>

# What does the regulation cover?

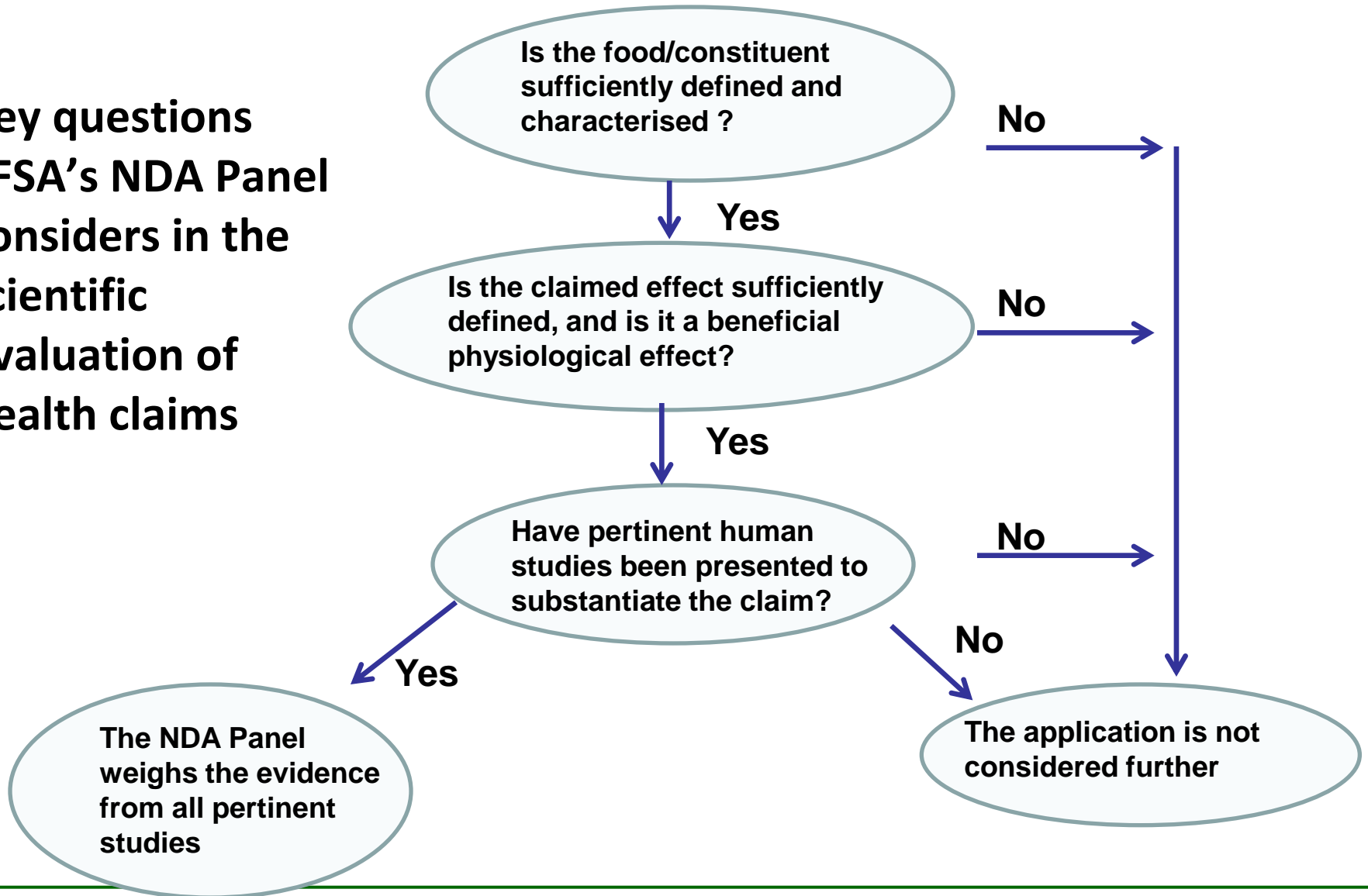
- All food, drinks and dietary supplements
- All 'commercial communications'
- **Not permitted:**
  - Medicinal claims about preventing, treating or curing a disease.
  - Claims on alcoholic beverages (more than 1.2% alcohol), other than low/reduced alcohol or energy.
  - Claims that suggest health could be affected by not consuming the food.
  - Claims that make reference to a rate or amount of weight loss.
  - Claims that make reference to recommendations of individual doctors and health professionals.
- The **five principles** listed earlier apply to all claims

# Approval process for Article 13.5 and 14 claims

- EFSA NDA panel provides scientific opinion on the proposed claim dossier [NDA panel = Dietetic products, Nutrition and Allergies Panel]
- EC considers EFSA opinion and also the likely consumer understanding of the proposed wording and gives final decision on approval/rejection
- Claim and the associated ‘conditions of use’ are published on the approved list
- If it’s not on the list .....



# Key questions EFSA's NDA Panel considers in the scientific evaluation of health claims



# Current challenges include...

- There are still submitted (botanicals) claims ‘on hold’.
- Nutrient profiling process for use with claims still not in place (was scheduled for 2009); delay leads to uncertainty.
- Issues with the flexibility of wording once a claim has been approved, and suggested inconsistency between member states in the enforcement processes applied.
- Assessment of consumer understanding in the evaluation of communications in a manner that controls subjectivity, and supports the aims of the Regulation.
- Is the Regulation facilitating research and innovation, as planned?

*See Buttriss 2015 (Nutrition Bulletin 40, 211-222) for a more detailed discussion of these issues*





# BACCHUS

Cardiovascular benefits  
from food bioactives

To develop tools and resources that will facilitate the generation of robust and exploitable **scientific evidence** that can be used to support claims of a **cause and effect relationship** between consumption of bioactive peptides and polyphenols and beneficial effects related to **cardiovascular health in humans**









<http://www.bacchus-fp7.eu/resources/bacchus-publications/>

- Best Practice Guide
- Watching Briefs
- Tool kit: Best Practice Guide, Dossier template, checklists, guidance on human studies design, tool to enable exposure assessments (eBASIS composition database linked to Crème Nutrition for Bacchus).
- SME impact surveys, 2015, 2016

## **AIMS of Bacchus Best Practice Guide:**

- Provide an introduction to the Nutrition and Health Claims Regulation
- Review relevant guidance documents
- Review health claims opinions to identify key issues
- Identify criteria for successful health claims dossiers.

**Importance of characterisation of the ingredient: knowing the mechanism helps - EFSA guidance EFSA Journal 2016; 14(1):4367, 38 pp.**

Food	Bioactives	Product and SME
Pomegranate 	Polyphenols e.g. ellagitannins, ellagic acid	Ellagitannin-rich extracts (ADMIRA)
Apples 	Polyphenols e.g. (epi)catechins, procyanidins (oligomers),	Evesse™ apple granules Evesse™ –EPC Evesse™-OPC (CORESSENCE)
Aronia 	Polyphenols e.g. anthocyanins, phenolic acids	Polyphenol-rich chokeberry juice (Aronia Anti-Oxi®) (NUTRIKA)
Sweet orange 	Polyphenols e.g. flavone glycosides	Cordiart™ sweet orange extract (BIOACTOR) 
Cured pork 	Bioactive peptides (formed during curing process)	Cured hams and loins, fermented sausages, pork-containing pastes (VAQUERO, VALDYCOMER)
Eggs, egg white 	Bioactive peptides (generated by controlled proteolysis)	Tensiocontrol (BIOACTOR) 

# Work-package 2

## Bioactive-rich foods and placebos



1. Development and characterisation of foods, beverages, extracts and placebos
  - Suitable bioactive content and composition
  - Placebos

2. New methods of analysis

- Ellagitannins
- Apple flavanols including procyanidin oligomers



3. Preparation and characterisation of foods for the RCTs

# Key factors that that play a role in **successful** health claims related to polyphenols and cardiovascular disease

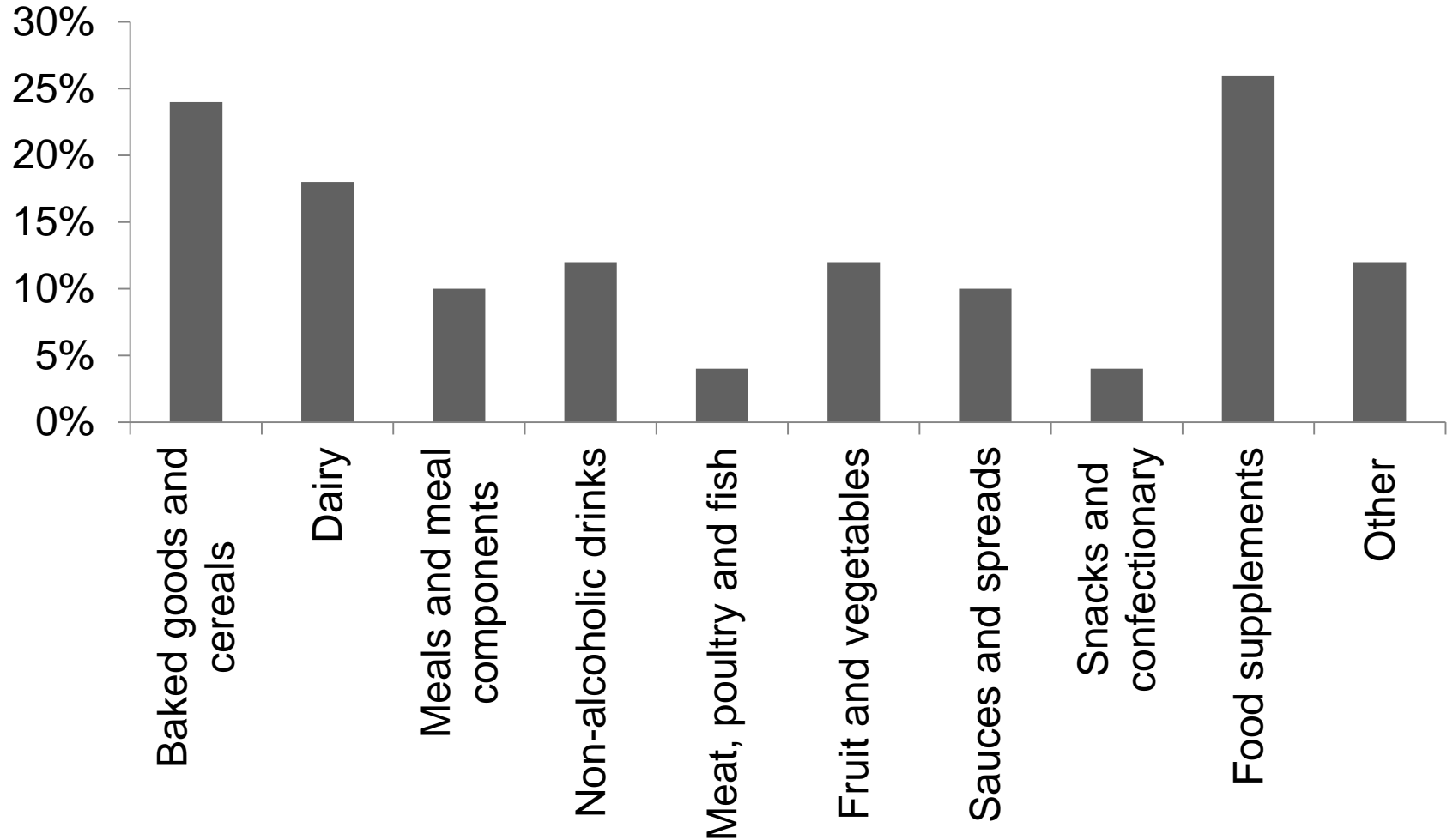
- Example of a successful health claim, *olive oil polyphenols contribute to the protection of LDL particles from oxidative stress*
- ✓ Sufficient characterisation of the food constituent (olive polyphenols)
- ✓ Large body of evidence from human studies
- ✓ Use of validated biomarker of LDL peroxidation
- ✓ Biologically plausible mechanism by which olive phenolics may protect LDL particles from LDL peroxidation

# Key factors that play a role in **unsuccessful** health claims related to polyphenols and cardiovascular disease

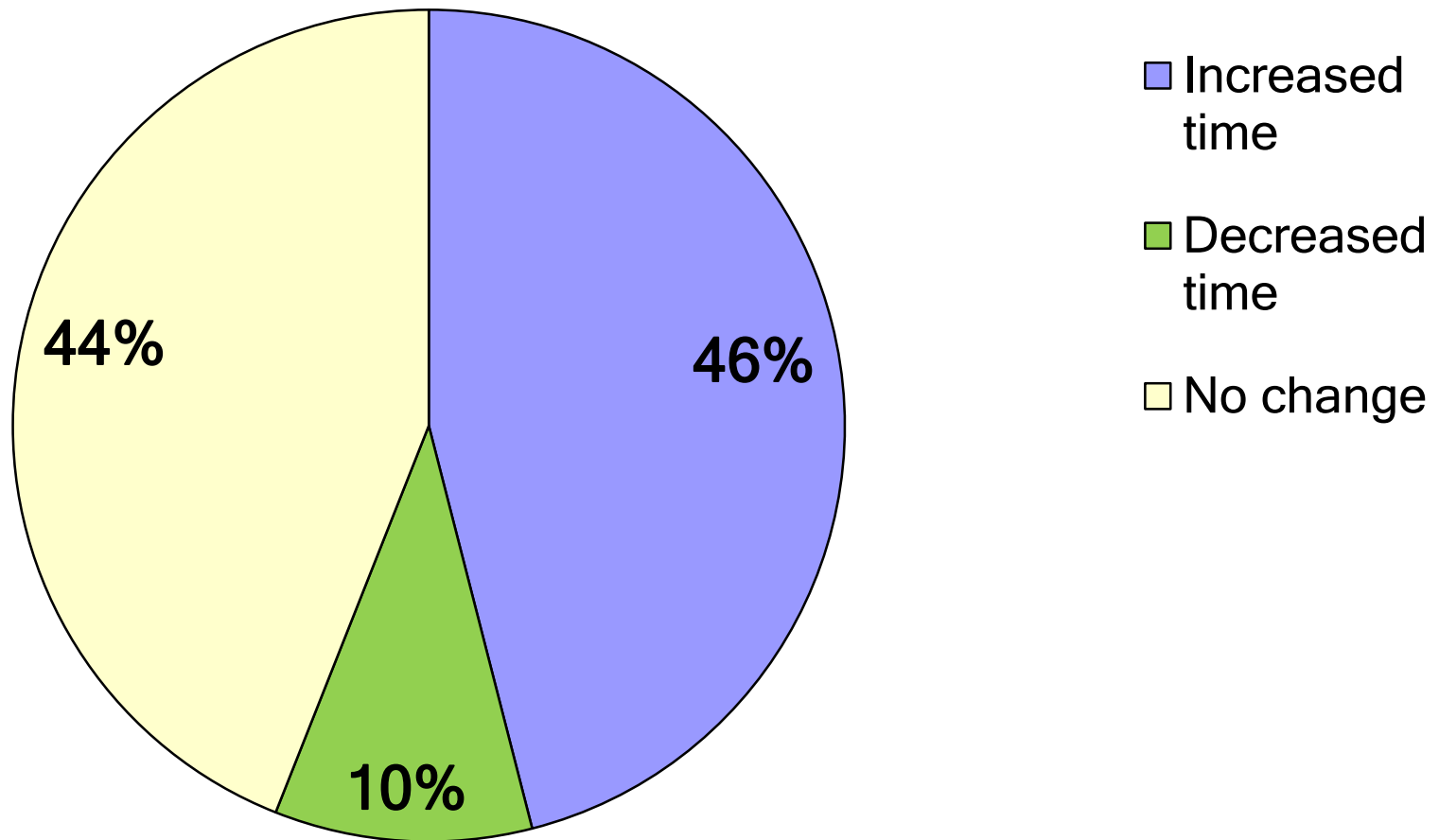
- Failure to reach a positive opinion for proposed health claims can occur for several reasons:
  1. Claims submitted under an **inappropriate article**,
  2. **Insufficient characterisation** of the food/constituent,
  3. **Insufficient evidence provided to establish a cause and effect relationship** between consumption of the food/constituent and the claimed effect,
  4. **Lack of evidence** that the claimed effect is **beneficial to the maintenance or improvements of functions** of the body,
  5. Lack of **human** trials.



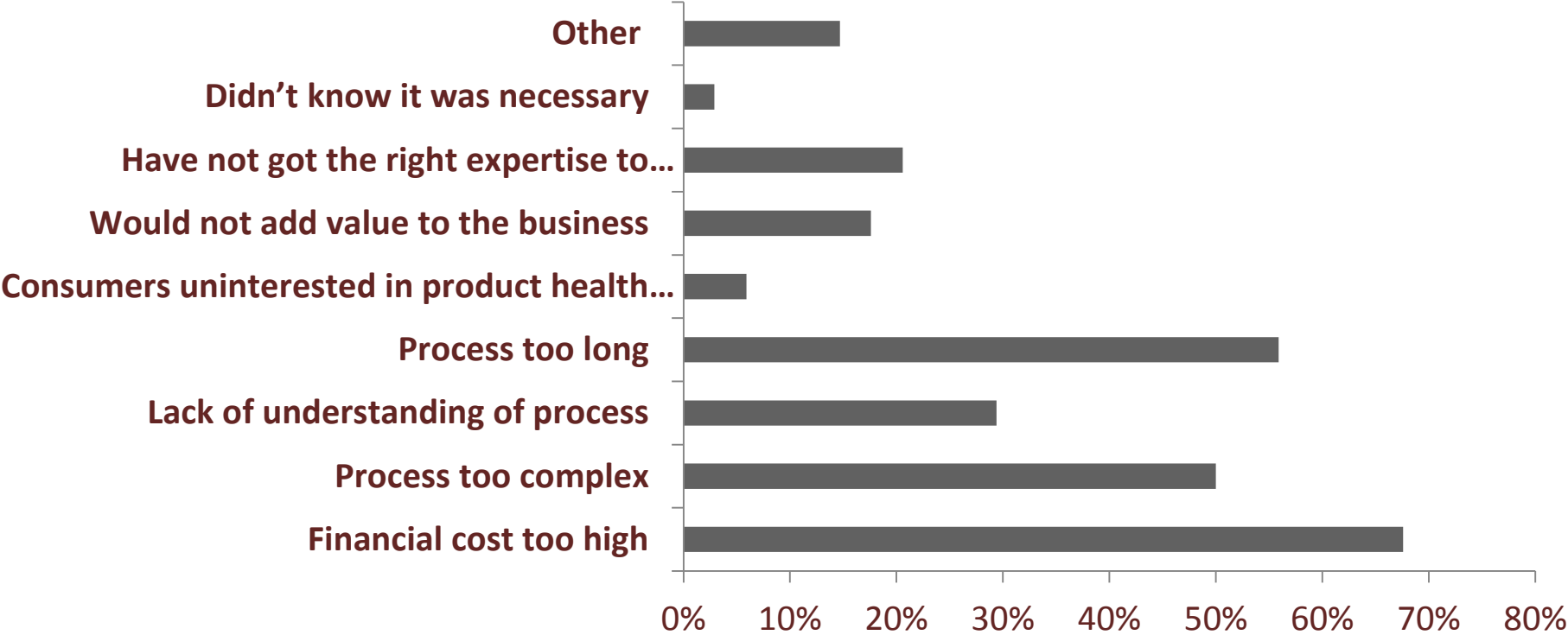
# Sectors represented among the SMEs surveyed (n=50, 11 countries)



# Responses to the question 'Has the regulation affected the length of time it takes from concept to product placement in market?'



# Percentage of respondents selecting each available option to the question 'Why is it unlikely that your company will submit a health claim dossier of evidence?'



Thanks for listening!



[www.nutrition.org.uk](http://www.nutrition.org.uk)  
[www.foodafactoflife.org.uk](http://www.foodafactoflife.org.uk)