Theresa M Marteau

Behaviour and Health Research Unit University of Cambridge

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1. Why should we care about acceptability?

2. What influences acceptability?

3. Can we increase acceptability of effective interventions?





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1. Why should we care about acceptability?

Major threats to health involve behaviour change

 Many of the more effective interventions require government intervention

 Public acceptability influences political acceptability of government intervention





Four sets of Behaviours and Disease Risk

➤ 63% deaths worldwide are due to Cancer, Cardiovascular disease, Diabetes, Respiratory Disease

Key causes -











Eliminating these major risk factors will prevent -

75% of diabetes and cardiovascular disease



40% of cancer









1. Why should we care about acceptability?

Major threats to health involve behaviour change

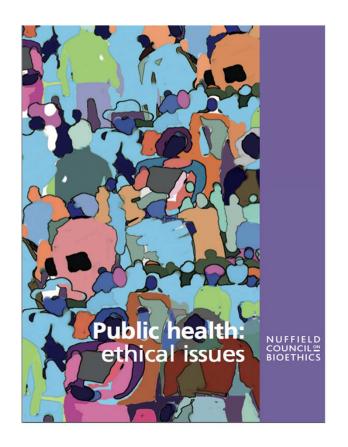
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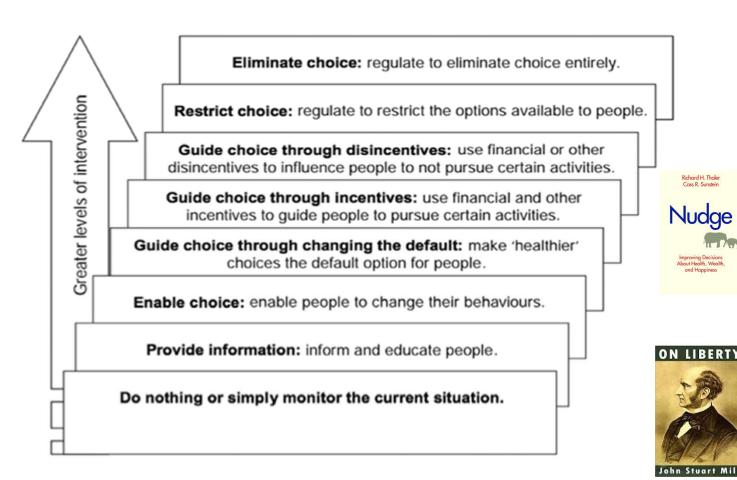
 Public acceptability influences political acceptability of government intervention





Levels of Intervention









1. Why should we care about acceptability?

Major threats to health involve behaviour change

 Many of the more effective interventions require government intervention

 Public acceptability influences political acceptability of government intervention





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Diepeveen et al. BMC Public Health 2013, 13:756 http://www.biomedcentral.com/1471-2458/13/756



RESEARCH ARTICLE

Open Access

Public acceptability of government intervention to change health-related behaviours: a systematic review and narrative synthesis

Stephanie Diepeveen¹, Tom Ling¹, Marc Suhrcke^{2,3}, Martin Roland³ and Theresa M Marteau^{3*}

Abstract

Background: Governments can intervene to change health-related behaviours using various measures but are sensitive to public attitudes towards such interventions. This review describes public attitudes towards a range of policy interventions aimed at changing tobacco and alcohol use, diet, and physical activity, and the extent to which these attitudes vary with characteristics of (a) the targeted behaviour (b) the intervention and (c) the respondents.

Methods: We searched electronic databases and conducted a narrative synthesis of empirical studies that reported public attitudes in Europe, North America, Australia and New Zealand towards interventions relating to tobacco, alcohol, diet and physical activity. Two hundred studies met the inclusion criteria.

Results: Over half the studies (105/200, 53%) were conducted in North America, with the most common interventions relating to tobacco control (110/200, 55%), followed by alcohol (42/200, 21%), diet-related interventions (18/200, 9%), interventions targeting both diet and physical activity (18/200, 9%), and physical activity alone (3/200, 2%). Most studies used survey-based methods (160/200, 80%), and only ten used experimental designs. Acceptability varied as a function of: (a) the targeted behaviour, with more support observed for smoking-related interventions; (b) the type of intervention, with less intrusive interventions, those already implemented, and those targeting children and young people attracting most support; and (c) the characteristics of respondents, with support being highest in those not engaging in the targeted behaviour, and with women and older respondents being more likely to endorse more restrictive measures.

Conclusions: Public acceptability of government interventions to change behaviour is greatest for the least intrusive interventions, which are often the least effective, and for interventions targeting the behaviour of others, rather than the respondent him or herself. Experimental studies are needed to assess how the presentation of the problem and the benefits of intervention might increase acceptability for those interventions which are more effective but currently less acceptable.

Keywords: Health behaviour, Attitude, Public opinion, Policy

Diepeveen et al., 2013 - BMC Public Health

Narrative synthesis of 200 studies

105/200: N America

110/200: Tobacco

42/200: Alcohol

18/200: Diet

18/200: Diet & Physical Activity

3/200: Physical Activity





Acceptability varies with:

i. <u>Target behaviour</u>
 Most support for tobacco control

ii. Type of intervention

Most support for Education (generally ineffective) Least support for Price (generally more effective)

iii. Respondents

Most support from those **not** engaging in the target behaviour Most support for more intrusive interventions from women and older respondents

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Public attitudes towards pricing policies to change health-related behaviours: a UK focus group study

12 Focus Groups

Common protocol with stimulus materials used to promote discussion of pricing policies to change three behaviours:

- Smoking
- Diet
- Alcohol consumption

Somerville, Kinmonth, Marteau & Cohn, Under Review





Beliefs associated with low acceptability of price interventions:

- i. pricing makes no difference to behaviour *It's not going to stop people (066)*
- ii. government operates as an enterprise and introduces pricing policies to generate income (not change behaviour)

 Every time the government do something I just think they're doing it for their own benefit, they just want your money (068)
- iii. government and the evidence it cites is not trustworthy

 To be honest with you I don't trust government
 whatsoever (061)





Reducing Sugary Drinks Consumption: USA & UK

<u>Study Aim</u>: To describe (UK & US) public acceptability of government interventions to reduce sugary drinks consumption

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Changing the shape
Changing the location

"Nudge" interventions

Increased taxation - high intrusion
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Increased taxation - high intrusion

Education campaign - low intrusion

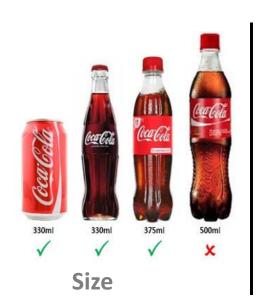
"Traditional" interventions

Hypothesis: describing the mechanism by which interventions are expected to work as "non-conscious" decreases public acceptability





Reducing sugary drink consumption





Shape







Education

Group 1 - Control

This new policy would work like this:

- The size of sugary drinks containers (e.g., bottles & cans) will be limited to smaller versions
- Changing the size of containers for sugary drinks means people will tend to drink less
- People will still be able to drink as much as they like

Group 2 - Conscious

This new policy would work like this:

- The size of sugary drinks containers (e.g., bottles & cans) will be limited to smaller versions
- Changing the size of containers for sugary drinks means people will tend to drink less
- People will be <u>conscious (i.e. aware)</u> of how this change in container size makes them drink less
- People will still be able to drink as much as they like

Group 3 - Non-Conscious

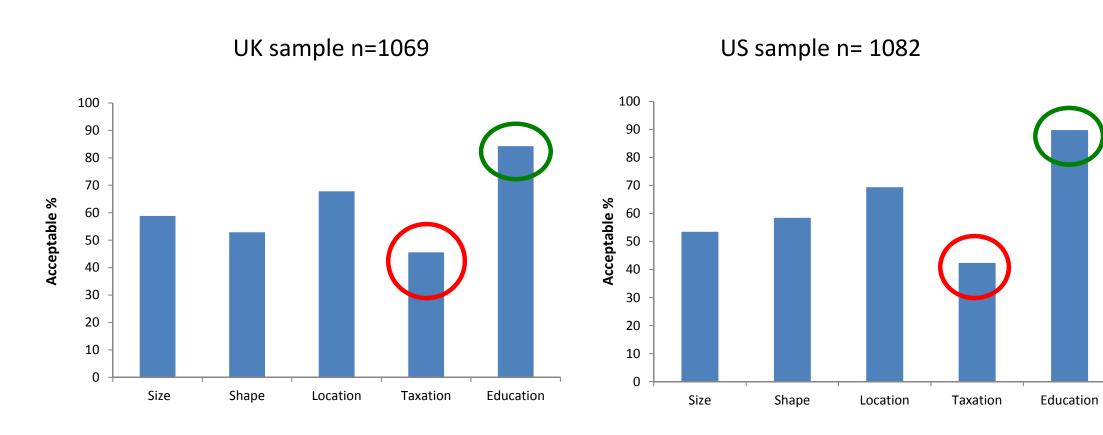
This new policy would work like this:

- The size of sugary drinks containers (e.g., bottles & cans) will be limited to smaller versions
- Changing the size of containers for sugary drinks means people will tend to drink less
- People will <u>not</u> be <u>conscious (i.e. aware)</u> of how this change in container size makes them drink less
- People will still be able to drink as much as they like





2. What influences acceptability? Interventions to reduce SSB consumption



Petrescu, Hollands & Marteau Under Review





1. Why should we care about acceptability?

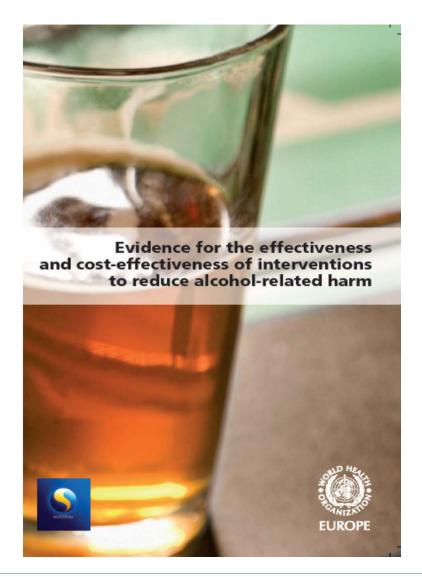
2. What influences acceptability?

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Alcohol Policies



Policy implications of the evidence of public support for alcohol policies

There is a range of effective policy measures, including those on drinking and driving, consumer labelling, advertising controls and controls on a minimum age of purchase, for which there is overwhelming public support from European citizens. The one policy measure that European citizens are sceptical about is that which is most effective – price. Concerted campaigns could be sounted to seek public support for price policy measures

Summary of the evidence of addressing pricing of alcohol

What we know

- There is extensive and consistent evidence that raising the price of alcohol reduces alcohol-related harm.
- There is consistent evidence that, to be effective, rises in the price of alcohol need to account for changes in income and the prices of other commodities.
- There is consistent evidence that price has an impact on younger and heavier drinkers.
- There is some evidence from economic models that setting a minimum price of alcohol could reduce alcohol-related harm.
- There is some evidence from economic models that price increases and setting a minimum price affect the consumption and expenditure of heavier drinkers to a much greater extent than lighter drinkers.
- ✓ There is some evidence that the EU economic treaties have led to lower alcohol taxes.
- There is some evidence that lowering taxes to reduce cross-border trade can lead to increased alcohol-related harm

what we do not know

The most efficient way to obtain public and political support for raising taxes or introducing a minimum price.





3. Can we increase acceptability of effective interventions?

<u>Study Aim</u> To estimate the extent to which public acceptability of government intervention to reduce alcohol consumption varies with:

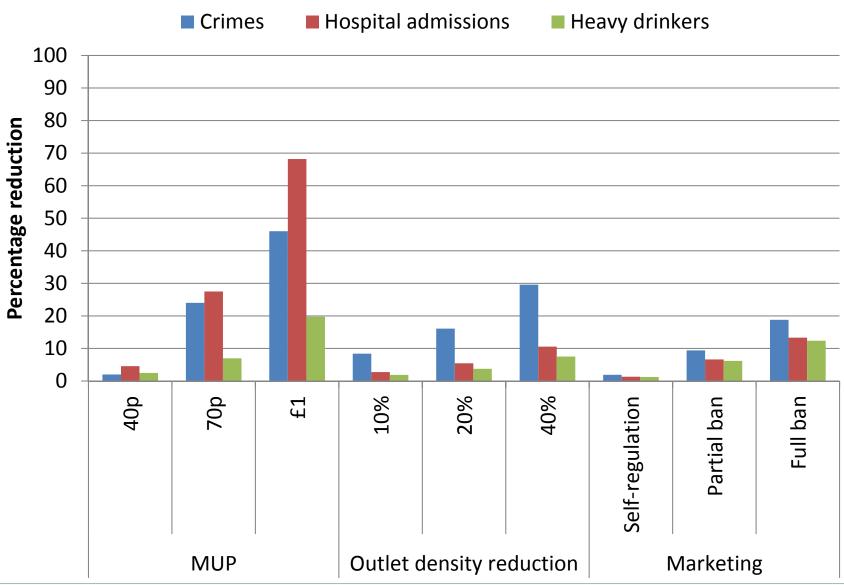
- The type of intervention
 (MUP vs. Outlet density vs. Marketing)
- 2. The intensity of the intervention (Low, medium, high)
- The domain of outcome
 (Crimes vs. Hospital admissions vs. Heavy drinkers)
- 4. The size of outcome effect (9 levels: Small large)

....and socioeconomic status and heaviness of drinking





Estimated Outcomes



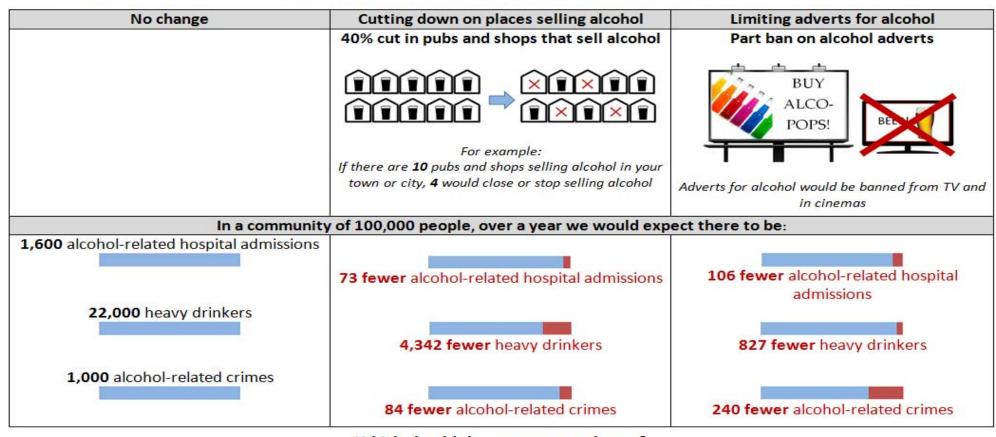




Choice Sets

Each participant responded to 9 choice sets, e.g.

CHOICE 6: Which of the following should the government choose?



Which should the government choose?

No change
 Cutting down on places selling alcohol

Limiting adverts for alcohol





Participant Characteristics

Face-to-face interviews with 1202 participants

Gender

- 46.2% male

Age

- 27.6% aged 18-34
- 37.8% aged 35-54
- 34.6% aged 55+

Highest educational qualification

- 16.7% no formal qualifications
- 39.9% GCSE or equivalent
- 16.8% A-level or equivalent
- 21.7% degree or higher

Working status

- 45.2% working full-time
- 15.3% working part-time
- 39.3% not working

Socioeconomic group

- 31.9% A or B
- 43.8% C1 or C2
- 24.3% D or E

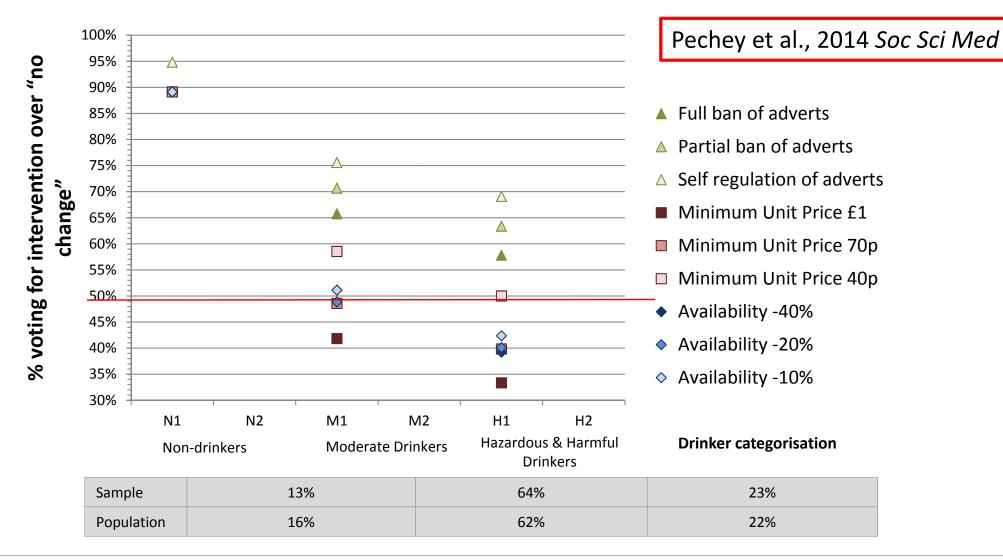
Drinker status

- 13% non-drinkers
- 64% moderate drinkers
- 23% heavy drinkers





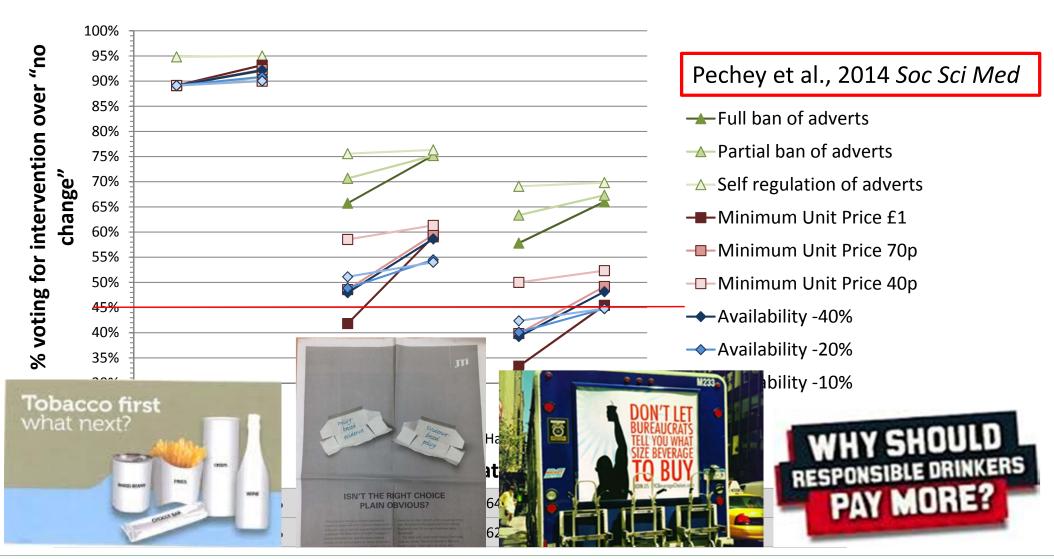
Acceptability of alcohol policy interventions given no information on outcomes







Acceptability of alcohol policy interventions given full information on outcomes







- 1. Why should we care about acceptability?

 Influences whether and how governments intervene
- What influences acceptability?
 - i. The target behavior
 - ii. The nature of the intervention
 - iii. Characteristics of respondents
 - iv. Perceived effectiveness
- 3. Can we increase acceptability of effective interventions?

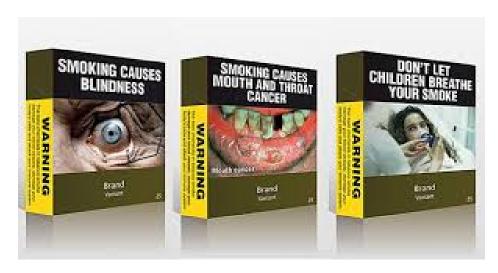
General Public: With evidence of effectiveness BUT is it sustained?





3. Can we increase acceptability of effective interventions...amongst policy makers?





Main vectors of 21st Century disease – alcohol, processed foods, tobacco, fossil fuels - bring pleasure and profit

- Economies are built on overconsumption
- Health is built on reducing consumption
 - How might prosperity AND health be aligned?





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- 3. Can we increase acceptability of effective interventions?

General Public: With evidence of effectiveness BUT is it sustained?

Policy Makers: Given competing values e.g. wealth vs. health creation can this be achieved and if so how?





Diepeveen S, Ling T, Suhrcke M, Roland M, & Marteau TM.

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Social Science & Medicine, 2014 113, 104–109

Under Review

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Public acceptability in the UK and USA of nudging to reduce obesity: the example of reducing sugary drinks consumption.

Somerville C, Kinmonth AL, Marteau TM, Cohn S.

Understanding public attitudes towards pricing policies to reduce consumption of alcohol and unhealthy foods: A focus group study

tm388@cam.ac.uk





