

The impact of e-cigarette shop displays on children

Submission date 03/12/2020	Recruitment status No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
Registration date 22/12/2020	Overall study status Completed	<input checked="" type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 22/08/2022	Condition category Other	<input checked="" type="checkbox"/> Individual participant data

Plain English summary of protocol

Background and study aims

Shop displays of tobacco (such as cigarettes) are linked to increased smoking, as well as the likelihood of smoking in the future, among children. Many countries have banned shops from displaying tobacco openly to the public. Tobacco has to be stored in units behind a screen instead. There has not been a similar ban on displaying e-cigarettes openly in shops. E-cigarettes are often placed next to the tobacco storage units. This study aims to understand whether seeing these open displays of e-cigarettes might be linked to a higher likelihood of smoking in the future among children.

Who can participate?

Children aged 13-17 years old will be invited to take part, via their parents.

What does the study involve?

Participants in the online study will be asked to look at 12 pictures from inside shops. They will be shown 1 of 4 possible sets of pictures, at random, which included either:

1. 9 pictures of e-cigarettes that are easy to see (lots of options with colourful packaging) and 3 other pictures (for example, of stationery)
2. 9 pictures of e-cigarettes that are not easy to see (only a few options) and 3 other pictures
3. 3 pictures of e-cigarettes that are easy to see and 9 other pictures
4. 3 pictures of e-cigarettes that are not easy to see and 9 other pictures

They will then be asked some questions about their interest in different products, including snack foods, energy and sugary drinks, cigarettes and e-cigarettes. The task should take 10 minutes. The images are from a range of supermarkets and corner shops in England and seeing these pictures is not expected to have any risks as children are likely to visit these places as part of their everyday lives.

What are the possible benefits and risks of participating?

None

Where is the study run from?

University of Bristol (UK)

When is the study starting and how long is it expected to run for?
January 2020 to January 2021

Who is funding the study?
Collaborative Award in Science from the Wellcome Trust (Behaviour Change by Design: 206853/Z/17/Z) (UK)

Who is the main contact?
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Contact information

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Additional identifiers**Clinical Trials Information System (CTIS)**

Nil known

ClinicalTrials.gov (NCT)

Nil known

Protocol serial number

102302

Study information**Scientific Title**

The impact of e-cigarette retail displays on smoking susceptibility in children: an experimental study

Study objectives

Children's susceptibility to tobacco smoking is increased by exposure to high visibility e-cigarette retail displays.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approved 17/07/2020, School of Psychological Science Research Ethics Committee (School of Psychological Science, 12a Priory Road, Bristol BS8 1TU, UK; +44 (0)117 928 9000; nathan.street@bristol.ac.uk), ref: 260320102302

Study design

2x2 between-subjects design randomized experimental study

Primary study design

Interventional

Study type(s)

Prevention

Health condition(s) or problem(s) studied

Smoking susceptibility among children

Interventions

Participants will take part in an online experiment, which will use a 2x2 between-subjects design, with two factors:

1. E-cigarette retail display visibility (high vs low)
2. Proportion of e-cigarette images (75% vs 25%)

Participants will be randomised to one of four groups (n=250 per group) as outlined below, using an algorithm within the Qualtrics online survey platform. Each group will comprise 12 images of retail displays, including either e-cigarettes or unrelated (control) products such as stationery. E-cigarette images will be based on a recent naturalistic observational study of e-cigarette displays in England.

Group 1 will be shown 9 images of high visibility e-cigarette displays and 3 images of control products. Group 2 will be shown 3 images of high visibility e-cigarette displays and 9 images of control products. Group 3 will be shown 9 images of low visibility e-cigarette displays and 3 images of control products. Group 4 will be shown 3 images of low visibility e-cigarette displays and 9 images of control products.

Participants will view the 12 images according to their group and then answer a series of questions, including free then cued recall of items from the images, smoking and vaping susceptibility, perceptions of smoking and vaping harm, previous smoking and vaping experience, demographics, as well as filler questions. The task will take approximately 10 minutes to complete.

Intervention Type

Behavioural

Primary outcome(s)

1. Smoking susceptibility will be assessed among never smokers only measured using an established questionnaire with three questions: "Do you think that you will try a cigarette soon?"; and "If one of your best friends were to offer you a cigarette, would you smoke it?"; "Do you think you will be smoking cigarettes 1 year from now?" (the responses to each given either a grade of 0 or 1, where a total score of 0 to 3 is possible, with 0 being not susceptible and ≥ 1 being susceptible) measured after exposure to the retail display images

Key secondary outcome(s)

1. Vaping susceptibility will be assessed among never vapers only measured using a questionnaire adapted from the smoking susceptibility measure with three questions: "Do you think that you will try an e-cigarette (vape) soon?"; and "If one of your best friends were to offer you an e-cigarette (vape), would you smoke it?"; "Do you think you will be using e-cigarettes (vaping) 1 year from now?" (the responses to each given either a grade of 0 or 1, where a total score of 0 to 3 is possible, with 0 being not susceptible and ≥ 1 being susceptible) measured after exposure to the retail display images
2. Perception of harm of tobacco smoking will be assessed using a question adapted for vaping harms: "How dangerous do you think it is to smoke one or two cigarettes occasionally?" (rated

on a five-point scale, where a score of 1 is not very dangerous and score of 5 is very dangerous) measured after exposure to the retail display images

Completion date

25/01/2021

Eligibility

Key inclusion criteria

1. Aged between 13 and 17 years

Participant type(s)

Healthy volunteer

Healthy volunteers allowed

No

Age group

Child

Lower age limit

13 years

Upper age limit

17 years

Sex

All

Total final enrolment

1470

Key exclusion criteria

Does not meet inclusion criteria

Date of first enrolment

22/12/2020

Date of final enrolment

25/01/2021

Locations

Countries of recruitment

United Kingdom

England

Study participating centre
University of Bristol
12a Priory Road
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Sponsor information

Organisation
University of Bristol

ROR
<https://ror.org/0524sp257>

Funder(s)

Funder type
Charity

Funder Name
Wellcome Trust

Alternative Name(s)
Wellcome, WT

Funding Body Type
Private sector organisation

Funding Body Subtype
Trusts, charities, foundations (both public and private)

Location
United Kingdom

Results and Publications

Individual participant data (IPD) sharing plan

Anonymous study data may be shared with collaborators for the purposes of analysis and results interpretation under appropriate collaboration agreements. At the end of the study, electronic study data (including finalised datasheet) will be transferred to a designated University of Bristol Research Data Storage Facility for long-term archiving. Study data will be kept for a

minimum of 20 years. At the appropriate time, the datasheet will be locked and made open using the University of Bristol Research Data Repository and/or Open Science Framework (<https://data.bris.ac.uk/data/>)

IPD sharing plan summary

Stored in publicly available repository

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article		13/04/2022	22/08/2022	Yes	No
Protocol article		18/11/2020	22/08/2022	Yes	No
Dataset		22/04/2022	22/08/2022	No	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes
Statistical Analysis Plan		12/02/2021	22/08/2022	No	No