

Effectiveness of a peer-led, school-based intervention to promote healthy food choices in adolescents

Submission date 08/11/2021	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 01/12/2021	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 03/12/2024	Condition category Other	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Background and study aims

The transition from childhood to adolescence is recognised as a nutritionally vulnerable time as adolescents begin to become more independent when making their food choices. Evidence highlights that many UK adolescents fail to meet the dietary recommendations, with inadequate consumption of fruit, vegetables and fibre and excessive sugar intakes. Promoting positive dietary choices within this age group is of primary importance to reduce the risk of future ill-health, as poor eating habits established during adolescence tend to track into adulthood. Adolescents spend a significant proportion of their time in school. Therefore, schools are a favourable environment to promote healthy food choices in adolescents as they provide access to a large proportion of this population. The aim of this study is to investigate whether adolescents (aged 11-12 years) can improve their food choices over a period of 12 weeks by taking part in a school-based, peer-led intervention.

Who can participate?

Mixed-gender Year 8 pupils (aged 11-12 years), Year 13 pupils (aged 16-17 years) and school stakeholders in mainstream post-primary schools in Northern Ireland who operate a 'CRBCunningham' Cashless Canteen System.

What does the study involve?

The intervention will run for a period of 12 weeks. Participants are randomly allocated to one of two groups depending on their school.

In the schools allocated to group one (intervention), Year 13 pupils (aged 16-17 years) are recruited as peer leaders to assist in making adaptations to the canteen environment to promote healthy food choices to Year 8 pupils (aged 11-12 years) at lunchtime over a 12-week period. Year 13 pupils (aged 16-17 years) are asked to complete a questionnaire at the beginning of the intervention. The school allocated to group two (control) will continue with their normal canteen routine practices over the 12-week period. In both groups, Year 8 pupils purchasing data records in the canteen at lunchtime are collected at baseline (week 0) and weekly throughout the 12-week intervention and the Year 8 pupils complete a questionnaire at baseline (week 0)

and at the end of the intervention. In the schools allocated to group one, a subsample of Year 8 pupils will participate in focus groups, a subsample of Year 13 pupils will take part in focus groups or interviews and school stakeholders will participate in interviews.

What are the possible benefits and risks of participating?

Benefits if allocated to group one (intervention):

Year 8 pupils have the opportunity to receive regular low-cost rewards throughout the 12-week period and be entered into a draw to receive larger prizes at week 6 and week 12 of the intervention. Year 13 pupils have the opportunity to receive a £20 voucher and a certificate.

Benefits if allocated to group two (control):

Year 8 pupils have the opportunity to be entered into a prize draw to receive larger prizes.

Risks:

There are no direct risks associated with participating in this study.

Where is the study run from?

Ulster University, Coleraine (UK)

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

November 2020 to June 2022

Who is funding the study?

Department for the Economy (DfE) and the Generating Excellent Nutrition In UK Schools (GENIUS) Network (UK)

Who is the main contact?

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Additional identifiers

EudraCT/CTIS number

Nil known

IRAS number**ClinicalTrials.gov number**

Nil known

Secondary identifying numbers

REC/21/0051

Study information

Scientific Title

Effectiveness of a peer-led, school-based intervention to promote healthy food choices in adolescents: a pilot feasibility study

Study objectives

Intervention participants will improve their food choices in the school canteen at lunchtime.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approved 28/09/2021, Ulster University Research Ethics Committee (Shore Road, Newtownabbey, County Antrim, BT37 0QB, Northern Ireland; +44 (0)28 9036 6700; researchgovernance@ulster.ac.uk), ref: REC/21/0051

Study design

Single-centre interventional pilot feasibility cluster randomized controlled trial

Primary study design

Interventional

Secondary study design

Cluster randomised trial

Study setting(s)

School

Study type(s)

Prevention

Participant information sheet

Not available in web format, please use the contact details to request a patient information sheet.

Health condition(s) or problem(s) studied

Public health nutrition in post-primary schools.

Interventions

This study is a pilot feasibility cluster randomised-controlled trial evaluating the effectiveness of a school-based, peer-led intervention to promote healthy food choices in adolescents in the school canteen at lunchtime.

Year 8 pupils (aged 11-12 years), Year 13 peer leaders (aged 16-17 years) and school stakeholders will be recruited from three post-primary schools (intervention group) and Year 8 pupils (aged 11-12 years) will be recruited from one post-primary school (control group) across Northern Ireland and the intervention will take place for a period of 12 weeks.

Participants will be randomised at school-level to participate in the intervention group (n=3 schools) or the control group (n=1 school) using MINIM software.

In the schools allocated to group one (intervention), Year 13 pupils (aged 16-17 years) are recruited as peer leaders to assist in making adaptations to the canteen environment to promote healthy food choices to Year 8 pupils (aged 11-12 years) at lunchtime over a 12-week period. Year 13 pupils (aged 16-17 years) are asked to complete a questionnaire at the beginning of the intervention. The school allocated to group two (control) will continue with their normal canteen routine practices over the 12-week period. In both groups, Year 8 pupils purchasing data records in the canteen at lunchtime are collected at baseline (week 0) and weekly throughout the 12-week intervention and the Year 8 pupils complete a questionnaire at baseline (week 0) and at the end of the intervention. In the schools allocated to group one, a subsample of Year 8 pupils will participate in focus groups, a subsample of Year 13 pupils will take part in focus groups or interviews and school stakeholders will participate in interviews.

Intervention Type

Behavioural

Primary outcome measure

Food choices in the school canteen at lunchtime measured using the cashless canteen purchasing data records at baseline (week 0), week 1 - week 12

Secondary outcome measures

1. Dietary knowledge measured using a questionnaire at baseline and post-intervention (12 weeks)
2. Health-related quality of life, KIDSCREEN-10 measured using a questionnaire at baseline and post-intervention (12 weeks)
3. Self-efficacy towards diet measured using a questionnaire at baseline and post-intervention (12 weeks)
4. Dietary habits measured using a questionnaire at baseline and post-intervention (12 weeks)
5. Outcome Expectations measured using a questionnaire at baseline and post-intervention (12 weeks)
6. Dietary motivation measured using a questionnaire at baseline and post-intervention (12 weeks)
7. Dietary support measured using a questionnaire at baseline and post-intervention (12 weeks)
8. Dietary attitudes measured using a questionnaire at baseline and post-intervention (12 weeks)

Overall study start date

02/11/2020

Completion date

30/06/2022

Eligibility

Key inclusion criteria

1. Mainstream post-primary schools in Northern Ireland who operate a 'CRB Cunningham' cashless canteen system.
2. Year 8 pupils (11-12 years).
3. Year 13 pupils (16-17 years).
4. School stakeholders (Senior staff members/ teachers/ caterers).

Participant type(s)

Mixed

Age group

Mixed

Sex

Both

Target number of participants

Four clusters (schools) with a target of approximately 70 Year 8 pupils, 10 Year 13 peer leaders, 2 school stakeholders per intervention school (n=3) and 70 Year 8 pupils per control school (n=1).

Total final enrolment

532

Key exclusion criteria

1. Post-primary schools in Northern Ireland that do not operate a 'CRB Cunningham' cashless canteen system.
2. Non-mainstream post-primary schools.

Date of first enrolment

29/09/2021

Date of final enrolment

31/05/2022

Locations**Countries of recruitment**

Northern Ireland

United Kingdom

Study participating centre

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Sponsor information**Organisation**

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Sponsor type

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Funder(s)

Funder type

Government

Funder Name

Department for the Economy

Alternative Name(s)

An Roinn Geilleagair, Department for the Economy NI, Department for the Economy (Northern Ireland), Department for the Economy, Northern Ireland, Northern Ireland, Department for the Economy, DfE

Funding Body Type

Government organisation

Funding Body Subtype

National government

Location

United Kingdom

Funder Name

Generating Excellent Nutrition In UK Schools Network (GENIUS)

Results and Publications

Publication and dissemination plan

Planned publication in a high-impact peer-reviewed journal.
Dissemination: Presentations at conferences. An outcome report will be sent to the Northern Ireland Education Authority and funders (GENIUS Network).

Intention to publish date

31/12/2024

Individual participant data (IPD) sharing plan

The data-sharing plans for the current study are unknown and will be made available at a later date.

IPD sharing plan summary

Data sharing statement to be made available at a later date

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Abstract results		05/09/2023	03/12/2024	No	No
Thesis results		31/10/2023	03/12/2024	No	No