

Quasi-experimental evaluation of an online health and well-being screening questionnaire (Digital Health Contact [DHC]) used in secondary schools in the UK

Submission date 29/10/2020	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 23/02/2021	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 13/12/2022	Condition category Other	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Background and study aims

A UK local authority area introduced an online questionnaire, called the Digital Health Contact (DHC). The DHC is a universal, online, health and well-being screening questionnaire delivered to secondary school children in years 7, 9 and 11. At-risk children, identified by the self-completed questionnaire, are offered an appointment with the school nurse. The aim of this study is to evaluate the effectiveness of this online health and well-being screening questionnaire (the Digital Health Contact). Specifically, whether the DHC affected the number of referrals to the school nurse and if this had a positive impact on the well-being of these young people.

Who can participate?

Students in years 7, 9 and 11 in participating schools

What does the study involve?

Once a year, children from participating schools in academic years 7, 9 and 11 complete the online questionnaire. The questionnaire covers general mental health topics such as depression and anxiety, as well as other public health topics such as diet and sleep. Responses are processed automatically, if a young person responds in such a way that indicates urgent, unmet needs (red flagged), a referral alert is sent to the school nurse. The nurse will organise a face-to-face consultation with the young person to conduct a health assessment. The researchers will analyse anonymous data from the DHC collected during the pilot phase (2017/2018) and the three subsequent years.

What are the possible benefits and risks of participating?

The data being analysed is anonymised secondary data, so there are no potential risks as a result of processing the data. However, it is anticipated that should the researchers find important results this may inform the further development of the DHC and potentially increase the uptake

of it by additional schools. It is currently envisaged that the DHC may identify students who have developed any mental health difficulties or those who have health behaviours or concerns which may impair their educational performance or their long-term health, prior to them seeking help.

Where is the study run from?
University of Bristol (UK)

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

Who is funding the study?
NIHR School for Public Health Research- Public Health Practice Evaluation Scheme (PHPES) (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

Nil known

Study information

Scientific Title

Evaluation of the Digital Health Contact (DHC): an online, school-based health promotion, screening and population health intelligence intervention for children and young people

Acronym

DHC

Study objectives

Aim: to evaluate the effectiveness of an online health and well-being screening questionnaire (Digital Health Contact) implemented in secondary schools in the UK.

Objectives:

1. To assess whether the DHC has affected the number of referrals to the school nurse and

possibly onto further pathways of care

2. To assess whether the introduction of the DHC has resulted in a positive impact on the wellbeing of young people who were seen by the school nurse following their answers to the DHC

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approved 29/09/2020, University of Bristol Faculty of Health Sciences Research Ethics Committee (First Floor South, Senate House, Tyndall Avenue, Bristol, BS8 1TH, UK; +44 (0)117 331 8197; research-governance@bristol.ac.uk), ref: 110982

Study design

This study is designed as a natural experiment to explore the effectiveness of a digital health and well-being screening tool used in schools, the study includes intervention and control schools, as well as repeated measures for a sub-sample of the population

Primary study design

Interventional

Secondary study design

Non randomised study

Study setting(s)

School

Study type(s)

Screening

Participant information sheet

No participant information sheet available

Health condition(s) or problem(s) studied

Health, mental health, and well-being in school children

Interventions

The study includes an intervention arm and a control arm. The intervention schools received the DHC questionnaire for their Year 7, 9 and 11 students to complete while the control schools proceeded as usual.

Data collected from both groups of schools were the number of referrals to the school nurse, attendance to referrals, and actions taken following consultation. The questionnaire is completed once a year by students in years 7, 9 and 11. The researchers will obtain 4 years of data which means for most students they should have two timepoints, while for some (those in year 11 in the first 2 years) they will only have one timepoint.

Intervention Type

Other

Primary outcome measure

Number of young people identified as having an unmet need (red flagged) identified based on the DHC, collected in Years 1 to 4 (2017 to 2020)

Secondary outcome measures

1. Number of children that were referred to a school nurse recorded by the schools and provided by the data custodian

1.1. Number of children that attend these referrals recorded by the schools and provided by the data custodian

1.2. The onward actions including the number of onward referrals recorded by the schools and provided by the data custodian

1.3. Wellbeing measured using the DHC at participating schools, once per academic year

Overall study start date

01/03/2020

Completion date

30/04/2021

Eligibility

Key inclusion criteria

1. All year 7 students in the participating schools with parental consent and who also provided assent

2. All year 9 and 11 students in the participating schools who provide consent

Participant type(s)

All

Age group

Child

Sex

Both

Target number of participants

There are 22 intervention schools, three of which were pilot schools. 1. Pilot = 687 students. 2. Full sample (additional 19 schools) = 3099 completed questionnaires, as of end of 2019/2020 academic year

Total final enrolment

3786

Key exclusion criteria

Does not meet inclusion criteria

Date of first enrolment

01/09/2017

Date of final enrolment

30/04/2021

Locations

Countries of recruitment

England

United Kingdom

Study participating centre

University of Bristol

Canynge Hall

Bristol

United Kingdom

BS8 2PS

Sponsor information

Organisation

University of Bristol

Sponsor details

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Sponsor type

University/education

Website

<https://bristol.ac.uk/>

ROR

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

Funder(s)

Funder type

Government

Funder Name

NIHR School for Public Health Research- Public Health Practice Evaluation Scheme (PHPES)

Funder Name

National Institute for Health Research

Alternative Name(s)

National Institute for Health Research, NIHR Research, NIHRresearch, NIHR - National Institute for Health Research, NIHR (The National Institute for Health and Care Research), NIHR

Funding Body Type

Government organisation

Funding Body Subtype

National government

Location

United Kingdom

Results and Publications

Publication and dissemination plan

1. A study report will be written for the funder (NIHR SPHR) describing all results and this will also be shared with the practice partner
2. A short leaflet describing the main results in lay terms will be developed for the practice partner and for the participating schools
3. With respect to academic output, the results will be published in articles submitted to international peer-reviewed journals
4. To facilitate faster dissemination to the scientific community the results may be presented at a national scientific conference

Intention to publish date

30/06/2022

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study are not expected to be made available as the researchers are not the data controller and are merely processing the anonymised data. They are acting as processors of this data under a data-sharing agreement and unfortunately cannot agree to sharing the data.

IPD sharing plan summary

Not expected to be made available

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article		16/02/2022	13/12/2022	Yes	No

[Results article](#)

29/03/2022

13/12/2022

Yes

No