# For dental patients assessed as being moderate or high risk for type 2 diabetes, is direct referral or signposting more effective to facilitate contact with a health care professional?

Submission date	Recruitment status  No longer recruiting	<ul><li>Prospectively registered</li></ul>		
31/03/2022		☐ Protocol		
Registration date	Overall study status	Statistical analysis plan		
30/08/2023	Completed	Results		
Last Edited	Condition category	Individual participant data		
31/08/2023	Nutritional, Metabolic, Endocrine	<ul><li>Record updated in last year</li></ul>		

## Plain English summary of protocol

Background and study aims

It has been suggested in recent years by government policy documents such as the Oral Health Improvement Plan that patients could receive general health checks while attending their dental practice for a routine appointment. This study will use risk assessment for type 2 diabetes as an example of a general health check to investigate to compare the effectiveness of two referral strategies (direct referral and signposting) used by primary care dentists for facilitating contact between dental patients assessed as being at moderate or high risk of type 2 diabetes and a healthcare professional. The study will also explore the views and experiences of dental patients and dentists about the use of the risk assessment in a dental setting.

# Who can participate?

Patients: Dental patients aged 40 years or older who attend a vocational dental training practice in Scotland can participate. They must be attending their dentist for a routine appointment. Practitioners who work in a vocational dental training practice in Scotland can participate.

## What does the study involve?

Eligible dental patients who attend an NHS dental practice for a routine appointment will be invited to take part. If eligible, consenting patients will be asked at this appointment to complete an online risk assessment tool provided by Diabetes UK. Participating dental practices will be randomly allocated to deliver either a direct referral or a signposting intervention to patients with a risk level of "high" or "moderate" to facilitate contact with a healthcare professional. One month later, all participating patients will be asked to complete an online questionnaire which will ask if they made contact with a healthcare professional - this is the main outcome measure of the study. They will also be asked about their experience of being risk assessed in a dental setting, how they felt about being told their risk level and their thoughts about doing risk assessments like this in a dental setting. Participating dentists will also be asked to complete an online questionnaire about their thoughts and experiences about using the risk assessment tool in a dental setting.

What are the possible benefits and risks of participating?

Possible benefits to participants include an increased knowledge of the risk factors of type 2 diabetes. Some patient participants may discover they are at moderate or high risk of developing type 2 diabetes by taking part in this study. This study will encourage these participants to speak to a healthcare professional, which may lead to timely and appropriate clinical investigation and treatment if needed.

Possible risks to participants include a risk that the risk assessment may incorrectly report a patient participant to be at a lower risk of type 2 diabetes when they may be at high risk. There is also a risk that patient participants may feel anxious or concerned about their risk assessment score.

There are no expected risks to practitioner participants.

Where is the study run from? NHS Education for Scotland is managing the study (UK)

When is the study starting and how long is it expected to run for? December 2021 to December 2022.

Who is funding the study?

This study is not funded by an external organisation. All costs incurred during the running of the study will be covered by NHS Education for Scotland (UK)

Who is the main contact?

Dr Laura Beaton, laura.beaton@nhs.scot

## Study website

https://www.sdpbrn.org.uk/current-projects-2/dramers-diabetes-risk-assessment-and-medical-referral-or-signposting/

# Contact information

# Type(s)

Public

#### Contact name

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Scientific

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# Type(s)

Principal Investigator

## Contact name

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# Additional identifiers

# **EudraCT/CTIS** number

Nil known

## **IRAS** number

306747

## ClinicalTrials.gov number

Nil known

## Secondary identifying numbers

Dental/VT/01, IRAS 306747

# Study information

## Scientific Title

DRAMeRS: Diabetes Risk Assessment and Medical Referral or Signposting. A trial to compare the effectiveness of direct referral or signposting at facilitating contact between dental patients assessed as being at moderate or high risk of developing type 2 diabetes and a healthcare professional

## Acronym

**DRAMeRS** 

## **Study objectives**

The aim of the study is to compare the effectiveness of two referral strategies (direct referral and signposting) at facilitating contact between dental patients assessed as being at moderate or high risk of developing type 2 diabetes and a healthcare professional.

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Approved 15/03/2022, East of Scotland Research Ethics Service (Ninewells Hospital & Medical School, Tayside Medical Science Centre (TASC), Residency Block, Level 3, George Pirie Way, Dundee, DD1 9SY, UK; +44 (0)1382 383871; tay.eosres@nhs.scot), ref: 22/ES/0004

## Study design

Multi-centre two-arm clustered randomized controlled trial

## Primary study design

Interventional

## Secondary study design

Cluster randomised trial

# Study setting(s)

Dental clinic

# Study type(s)

Other

# Participant information sheet

See additional files

## Health condition(s) or problem(s) studied

Referral strategies for dental patients at risk of type 2 diabetes

#### **Interventions**

Practices will be randomised to either directly refer or signpost patients who have been risk assessed as being at moderate or high risk of type 2 diabetes to a healthcare professional. The study will randomise practices on a 1:1 basis.

If directly referred, a letter will be sent from the patient's dentist to their GP practice. If signposted, the patient will receive a leaflet that provides information about type 2 diabetes and encourages them to contact a healthcare professional.

One month following the risk assessment, patients in both arms of the intervention, and those whose risk score was low or intermediate, will receive a follow-up questionnaire. Patients whose score was moderate or high will be asked if they have made contact with a healthcare professional. All participants will be asked about their thoughts and experiences of taking part in the study. Participating practitioners will also be asked to complete an online questionnaire about their thoughts and experiences of taking part in the study.

## Intervention Type

Behavioural

## Primary outcome measure

The proportion of dental patients assessed as being at moderate or high risk of type 2 diabetes who make contact with a healthcare professional. This proportion will be measured by follow-up questionnaire sent to participants one month following their assessment.

## Secondary outcome measures

- 1. Beliefs of patients regarding the acceptability of the Diabetes UK Risk Assessment tool in a dental setting and their feelings about being told their risk level. Beliefs will be measured by follow-up questionnaire sent to participants one month following their assessment.
- 2. Beliefs of patients regarding the acceptability of the Diabetes UK Risk Assessment tool in a dental setting and their feelings about being told their risk level. Beliefs will be measured by follow-up questionnaire sent to participants one month following their assessment.

## Overall study start date

01/12/2021

## Completion date

01/12/2022

# **Eligibility**

## Key inclusion criteria

Patients:

- 1. Male or female
- 2. Aged 40+ years
- 3. Attending a vocational dental training practice
- 4. Attending for a routine, non-emergency, appointment

## Practitioners:

- 1. Male or female
- 2. Adults (18+ years)
- 3. Dentist in a vocational dental training practice

## Participant type(s)

Mixed

## Age group

Adult

## Lower age limit

## Sex

Both

## Target number of participants

140 dental practices will be included. There will be two clusters, with 70 dental practices in each cluster. There are 170 dental practitioners who will be invited to participate.

## Key exclusion criteria

#### Patients:

- 1. Patients who do not meet inclusion criteria.
- 2. Patients who already have received a diagnosis of type 1 or type 2 diabetes.
- 3. Patients who are pregnant.

## Practitioners:

1. Practitioners who do not meet inclusion criteria.

## Date of first enrolment

01/05/2022

## Date of final enrolment

30/07/2022

# Locations

## Countries of recruitment

Scotland

**United Kingdom** 

## Study participating centre

TRiaDS, Dental Clinical Effectiveness, NHS Education for Scotland

Dundee Dental Education Centre Frankland Building Small's Wynd Dundee United Kingdom DD1 4HN

# Sponsor information

## Organisation

NHS Education for Scotland

## Sponsor details

102 Westport
Edinburgh
Scotland
United Kingdom
EH3 9DN
+44 1316563200
triads@nes.scot.nhs.uk

## Sponsor type

Government

## Website

https://www.nes.scot.nhs.uk/

## **ROR**

https://ror.org/011ye7p58

# Funder(s)

## Funder type

Government

#### Funder Name

NHS Education for Scotland

Alternative Name(s)

## Funding Body Type

Government organisation

## **Funding Body Subtype**

Local government

#### Location

United Kingdom

# **Results and Publications**

## Publication and dissemination plan

The results of this study will be included in a report to the NHS Education for Scotland Dental Executive. A summary of findings will be made available to participants, and the VDPs who contributed to the study. The protocol and findings will also be submitted for publication in a peer-reviewed journal and presented at relevant conferences. In addition, other innovative methods of dissemination will be explored, including online videos.

# Intention to publish date

01/12/2023

# Individual participant data (IPD) sharing plan

The data sharing statement will be provided 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?
Participant information sheet	For patients version 3	08/03/2022	25/04/2022	No	Yes
Participant information sheet	For practitioners version 3	08/03/2022	25/04/2022	No	Yes