

# Dental Outreach Oral Hygiene Study

<b>Submission date</b> 01/10/2010	<b>Recruitment status</b> Stopped	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 06/12/2010	<b>Overall study status</b> Stopped	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 02/09/2014	<b>Condition category</b> Oral Health	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

Outreach clinics provide free dental treatment delivered by final year dental students under supervision. The clinics, which have now become widespread throughout Scotland, have been constructed in areas with low NHS dental registration levels, under the direction of the NHS Action Plan for Improving Oral Health (Scottish Executive 2005). Subsequently, these clinics provide treatment for patients with high levels of disease as a result of poor oral hygiene. Dental care providers deliver oral hygiene instruction as part of a preventive care approach. However, there currently is no clear best practice on how this instruction is best delivered. There is, however, some evidence to suggest that delivery of oral hygiene instruction using a psychological framework can improve patients oral health behaviours and therefore oral health. It has also been suggested that the inclusion of biomarker information may further increase patients oral hygiene behaviours and therefore oral health. This study aims to assess the effectiveness of oral hygiene instruction delivered within a psychological framework, with the inclusion of biomarker information, on the periodontal health of dental outreach patients.

### Who can participate?

Dental outreach patients over the age of 16 with at least one natural tooth.

### What does the study involve?

During routine dental outreach appointments participants will complete a short questionnaire and have their gum health examined by a final year dental student. They then will be given oral hygiene instruction; the method used will be determined by the students group allocation. Participants will return at 3 and 6 months to complete a questionnaire and have their gum health examined. Participants will be enrolled in the study for 6 months. During this time they receive normal dental care on outreach which may involve gum treatment.

### What are the possible benefits and risks of participating?

Participants in the study may benefit from improving their oral health. Regular effective tooth cleaning has been proven to reduce dental disease. There are no additional risks to being involved in this study as oral hygiene instruction is something which is part of usual dental care.

### Where is the study run from?

Dundee Dental Hospital and School (UK).

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

The study ran from October 2010 to September 2011.

Who is funding the study?

Scottish Dental Practice Based Research Network have funded paperwork and donated researcher time to this study. Training for the study has been donated by Tayside Academic Health Science Centre.

Who is the main contact?

Dr Andrew Hall

## Contact information

### Type(s)

Scientific

### Contact name

Dr Andrew Hall

### Contact details

Department of Restorative Dentistry  
Dundee Dental Hospital and School  
Park Place  
Dundee  
United Kingdom  
DD1 4HN

## Additional identifiers

### Protocol serial number

00000053

## Study information

### Scientific Title

A randomised and controlled cluster trial of 1500 patients attending dental outreach facilities affiliated with the University of Dundee, investigating whether delivery of an enhanced form of oral hygiene instruction, framed using psychological theory with the inclusion of biomarker information, can influence gingival health

### Acronym

DOOHS

### Study objectives

Providing tooth cleaning instruction enhanced by psychological theory and including biomarker information will improve the gingival health of dental outreach patients, compared to the providing the usual methods of tooth cleaning instruction.

### Ethics approval required

Old ethics approval format

**Ethics approval(s)**

Fife and Forth Valley Research Ethics Committee, ref: 10/S0501/43

**Study design**

Randomised controlled cluster trial

**Primary study design**

Interventional

**Study type(s)**

Quality of life

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

Oral health

**Interventions**

Oral hygiene instruction delivery, enhanced by framing with a psychological framework including biomarker information (intervention), versus oral hygiene instruction delivered in the usual way (control).

The treatment is a one-off intervention and patients in both control and intervention arms will be followed up for 6 months.

Updated 02/09/2014: The study was stopped due to poor patient recruitment.

**Intervention Type**

Other

**Phase**

Not Applicable

**Primary outcome(s)**

To assess the effectiveness of oral hygiene instruction delivered within a psychological framework, with the inclusion of biomarker information, on the periodontal health of primary care dental outreach patients. Measured at baseline, 3 months and 6 months.

**Key secondary outcome(s)**

Measured at baseline, 3 months and 6 months:

1. To assess the change in reported oral hygiene behaviours after this method of oral hygiene delivery
2. To investigate the acceptability of clinical research to this new group of primary care patients and the participating students

**Completion date**

01/09/2011

**Reason abandoned (if study stopped)**

Participant recruitment issue

# Eligibility

## Key inclusion criteria

Dental outreach clinic patients over 16 years, with at least one natural tooth

## Participant type(s)

Patient

## Healthy volunteers allowed

No

## Age group

Adult

## Sex

All

## Key exclusion criteria

1. Patients who are pregnant
2. Patients with completely healthy gums and no dental plaque
3. Patients who have medical disorder preventing examination of the gums

## Date of first enrolment

31/10/2010

## Date of final enrolment

01/09/2011

# Locations

## Countries of recruitment

United Kingdom

Scotland

## Study participating centre

Department of Restorative Dentistry

Dundee

United Kingdom

DD1 4HN

# Sponsor information

## Organisation

University of Dundee (UK)

**ROR**

<https://ror.org/03h2bxq36>

## Funder(s)

**Funder type**

Other

**Funder Name**

Added 02/09/2014:

**Funder Name**

Scottish Dental Practice Based Research Network (UK)

**Funder Name**

Tayside Academic Health Science Centre (UK)

## Results and Publications

**Individual participant data (IPD) sharing plan**

**IPD sharing plan summary**

Not provided at time of registration

**Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes