

Evaluation of a psychological intervention for better oral health

Submission date 06/03/2018	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 14/03/2018	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 19/05/2023	Condition category Oral Health	<input type="checkbox"/> Individual participant data

Plain English Summary

Background and study aims

Oral health in adolescents and young adults is generally good, but there are subgroups with poor oral health, and there seems to be a strong link between socioeconomic status (SES) and oral health in adolescents and young adults. There is a need to develop more effective methods to change oral health behaviors, as conventional counseling methods are not always effective. This study aims to investigate if a brief psychological intervention based on the acceptance and commitment therapy (ACT) is a possible way of promoting oral health, oral health behaviour and general psychological health in young adults, taking into account the individual socioeconomic status.

Who can participate?

Adults aged 18 – 25 years with two or more dental caries

What does the study involve?

Participants are randomly allocated to an intervention or control group. Both groups receive standardised oral health information, provided verbally by a registered dental nurse using a brochure on oral health behaviour and caries.

Those in the intervention group also receive cognitive behavioural therapy based on acceptance and commitment therapy (ACT). This emphasises the participants own motivation to change by contacting their values and promoting committed action in line with those values. They receive two individual sessions (45 minutes each) with a licensed psychologist, delivered at their general dental clinic.

What are the possible benefits and risks of participating?

The participants may benefit from improved oral and general health. Whilst the intervention is assessed for adverse effects, no specific risks for the participants were expected.

Where is the study run from?

1. Dental Public Service Angered (Sweden)
2. Dental Public Service Vänersborg (Sweden)

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

February 2013 to May 2016

Who is funding the study?
Dental Public Service Region Västra Götaland (Sweden)

Who is the main contact?
Dr Ulla Wilde (Scientific)
ulla.wide@gu.se

Contact information

Type(s)
Scientific

Contact name
Dr Ulla Wide

ORCID ID
<http://orcid.org/0000-0001-9498-1118>

Contact details
Institute of Odontology
The Sahlgrenska Academy
University of Gothenburg
P.O. Box 450
Gothenburg
Sweden
405 30
+46 31 786 3076
ulla.wide@gu.se

Type(s)
Scientific

Contact name
Prof Magnus Hakeberg

Contact details
Institute of Odontology
The Sahlgrenska Academy
University of Gothenburg
P.O. Box 450
Gothenburg
Sweden
405 30
+46 31 7863134
hakeberg@gu.se

Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

n.a.

Study information

Scientific Title

Can a brief psychological intervention improve oral health behaviour?
A randomised controlled trial.

Study hypothesis

1. A brief psychological intervention (ACT) improves oral health behaviours (such as tooth-brushing and flossing) more than standard information alone
2. A brief psychological intervention (ACT) decreases distress and improves the ability to handle life stressors more than standard information alone.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Regional Ethical Review Board in Gothenburg Sweden, 03/12/2012, ref: 840-12

Study design

Randomized controlled trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

GP practice

Study type(s)

Treatment

Participant information sheet

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

Condition

Poor oral health (\geq two manifested proximal dental caries lesions)

Interventions

Participants are randomly allocated to an intervention or control group. Both groups receive standardised oral health information, provided verbally by a registered dental nurse using a

brochure on oral health behaviour and caries.

Those in the intervention group also receive cognitive behavioural therapy based on acceptance and commitment therapy (ACT). This emphasises the participants own motivation to change by contacting their values and promoting committed action in line with those values. It also focuses on developing their willingness to experience different negative emotions, that have previously hindered this action to occur. They receive two individual sessions (45 minutes each) with a licensed psychologist specialising in ACT, delivered at their general dental clinic.

Intervention Type

Behavioural

Primary outcome measure

1. Oral health behaviour (tooth-brushing, flossing, tooth picks, additional fluoride) was measured by a self-report questionnaire using single-questions at baseline, 3 weeks, 9 weeks, 18 weeks and 1 year.
2. Oral health (caries, gingivitis) were measured by
 - 2.1. radiographs for manifest caries at baseline and 1 year
 - 2.2. clinical examination for gingivitis using bleeding on probing yes/no at baseline, 9 weeks, 18 weeks and 1 year.
3. Sugar consumption was measured using a self-report questionnaire of several items for consumption of soft drinks and candy/sweets at baseline, 9 weeks, 18 weeks and 1 year.

Secondary outcome measures

1. Psychological distress and general health behaviour was assessed by a
 - 1.1. self-report questionnaire (Hospital Anxiety and Depression Scale HADS) at baseline, 3 weeks, 9 weeks, 18 weeks and 1 year
 - 1.2. self-report single questions (smoking, exercise) at baseline, 9 weeks, 18 weeks and 1 year.

Overall study start date

27/02/2013

Overall study end date

31/05/2016

Eligibility

Participant inclusion criteria

1. 18-25 years of age
2. \geq two manifested proximal dental caries lesions
3. Good understanding of Swedish

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Upper age limit

25 Years

Sex

Both

Target number of participants

130

Total final enrolment

135

Participant exclusion criteria

1. Psychiatric/neuropsychiatric diagnosis, such as depression, psychosis, autism spectrum disorder, mental retardation, substance abuse.

Recruitment start date

04/10/2013

Recruitment end date

19/01/2015

Locations**Countries of recruitment**

Sweden

Study participating centre**Dental Public Service Angered**

Triörgatan 2

Angered

Sweden

424 65

Study participating centre**Dental Public Service Vänersborg**

Kronogatan 14

Vänersborg

Sweden

462 30

Sponsor information

Organisation

Dental Public Service Region Västra Götaland

Sponsor details

Region Västra Götaland

Skövde

Sweden

541 80

+46 10 4417000

info.folktandvarden@vgregion.se

Sponsor type

Government

Website

<https://folktandvarden.vgregion.se>

Funder(s)

Funder type

Government

Funder Name

The Health Care Subcommittee, Region Västra Götaland, Sweden.

Results and Publications

Publication and dissemination plan

Several publications in scientific peer-reviewed journals are planned within the coming year till 31/03/2019

Intention to publish date

31/03/2019

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study are/will be available upon request from Associate professor Ulla Wide at ulla.wide@gu.se

IPD sharing plan summary

Available on request

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	03/10/2018	12/09/2019	Yes	No

Results article	results	26/08/2020	02/09/2020	Yes	No
Results article		18/11/2021	19/11/2021	Yes	No
Interim results article	Baseline data analysis	31/07/2021	19/05/2023	Yes	No