

The Monitor Practice Program - is non-invasive management of dental caries in private practice cost-effective?

Submission date 05/02/2009	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 30/03/2009	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 30/03/2009	Condition category Oral Health	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

Dr Bradley Curtis

Contact details

University of Sydney
Population Oral Health Research Unit
1 Mons Rd
Westmead
Australia
NSW 2145

Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

402466

Study information

Scientific Title

The cost-effectiveness of non-invasive management of dental caries in private practice: a cluster randomised controlled clinical trial

Acronym

MPP

Study objectives

1. That there is a statistically significant difference in the increment of decayed, missing, and filled tooth surfaces (DMFS) between a preventive and a standard care oral health program
2. That management of dental decay using a preventive remineralising approach is more cost-effective than the standard approach which involves filling the tooth

Ethics approval required

Old ethics approval format

Ethics approval(s)

Sydney University Human Ethics Committee gave approval on the 24th November 2004 (ref: 7810)

Study design

Cluster randomised controlled clinical trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Other

Study type(s)

Treatment

Participant information sheet

Can be found at <http://www.dentistry.usyd.edu.au/mpp/downloads.htm>

Health condition(s) or problem(s) studied

Dental caries

Interventions

Control arm:

Usual dental care.

Intervention arm:

The Caries Management System is a ten-step non-invasive strategy to arrest and remineralise early lesions. This system was developed for use by general practitioners according to a new

Caries Management Policy that had been adopted by the Faculty of Dentistry, University of Sydney, where learning and teaching within the new curriculum was designed to be informed by evidence-based practice. The governing principle of the Caries Management System is that caries management must include consideration of:

1. The patient at risk
2. The status of each lesion
3. Patient management
4. Clinical management
5. Monitoring

Both dental caries risk and dental caries treatment are managed according to a set of protocols which refer only to those interventions that are well supported by a strong evidence base. The protocols are applied at various steps throughout patient consultation and treatment and have a twin focus on the primary prevention of caries and its secondary prevention (arrest and reversal of early lesions) through non-invasive measures.

Assessment of dental plaque control:

1. Saliva assessment
2. The status of each lesion

Clinical examination:

1. Bite-wing radiographic survey
2. Assessment of the patient's caries risk status

Patient management:

1. Case presentation and treatment planning
2. Diet advice
3. Oral hygiene instruction and coaching
4. Clinical management
5. Monitoring
6. Caries activity
7. Diet control
8. Plaque control
9. Fluoride exposure

Intervention Type

Other

Phase

Not Applicable

Primary outcome measure

1. Reduction in incremental DMFS score
2. Incremental cost-effectiveness ratio

Interim analysis at 2 years (to determine efficacy for the cost-effectiveness analysis), final analysis 3 years.

Secondary outcome measures

1. Patient and dentist acceptability
2. Impediments to implementation

Interim analysis at 2 years (to determine efficacy for the cost-effectiveness analysis), final analysis 3 years.

Overall study start date

01/03/2005

Completion date

30/09/2012

Eligibility

Key inclusion criteria

1. All patients attending for dental treatment within recruited dental practices
2. Aged 5 years and over, either sex

Participant type(s)

Patient

Age group

Other

Sex

Both

Target number of participants

800

Key exclusion criteria

Unable to provide informed consent

Date of first enrolment

01/03/2005

Date of final enrolment

30/09/2012

Locations

Countries of recruitment

Australia

Study participating centre

University of Sydney

Westmead

Australia

NSW 2145

Sponsor information

Organisation

University of Sydney (Australia)

Sponsor details

Population Oral Health Research Unit
1 Mons Rd
Westmead
Australia
NSW 2145

Sponsor type

University/education

Website

<http://www.usyd.edu.au/>

ROR

<https://ror.org/0384j8v12>

Funder(s)

Funder type

Research council

Funder Name

National Health and Medical Research Council (NHMRC) (Australia) (ref: 402466)

Alternative Name(s)

NHMRC

Funding Body Type

Government organisation

Funding Body Subtype

National government

Location

Australia

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date

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?
Results article	recruitment results	01/06/2007		Yes	No
Other publications	patient perspective	01/12/2007		Yes	No
Results article	results	01/12/2008		Yes	No