

A clinical and laboratory study of the performance of a dual-cured glass-ionomer cement as a bonding agent for orthodontic brackets.

Submission date 23/01/2004	Recruitment status No longer recruiting	☐ Prospectively registered ☐ Protocol
Registration date 23/01/2004	Overall study status Completed	☐ Statistical analysis plan ☒ Results
Last Edited 18/01/2010	Condition category Oral Health	☐ Individual participant data

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

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Additional identifiers

Protocol serial number

94060005

Study information

Scientific Title

Study objectives

To assess the clinical performance of a resin-modified glass ionomer cement as an orthodontic bonding agent, and to compare these findings with the results of laboratory tests of bond performance.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Not provided at time of registration

Study design

Randomised controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Oral health/stomatognathic diseases

Interventions

Each patient will be allocated randomly to one of three test groups :

1. Glass-ionomer without sandblasting vs. composite resin
2. Glass-ionomer with sandblasting vs. composite resin
3. Glass-ionomer with sandblasting vs. glass-ionomer without sandblasting

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

Clinical bracket failure rates. In vitro: bracket bond strengths and fatigue (assessed using a ball mill); fluoride release over time

Key secondary outcome(s)

Not provided at time of registration

Completion date

04/01/1996

Eligibility

Key inclusion criteria

Patients attending for routine orthodontic treatment using fixed appliances.

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Other

Sex

All

Key exclusion criteria

Does not match inclusion criteria

Date of first enrolment

04/01/1994

Date of final enrolment

04/01/1996

Locations**Countries of recruitment**

United Kingdom

England

Study participating centre**Dental School**

Newcastle upon Tyne

United Kingdom

NE2 4BW

Sponsor information**Organisation**

NHS R&D Regional Programme Register - Department of Health (UK)

Funder(s)

Funder type

Government

Funder Name

NHS Executive Northern and Yorkshire (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?
Results article	results	01/05/1995		Yes	No