

Volume 79, Issue 1
(January 2009)
[< Previous Article](#) [Volume 79, Issue 1 \(January 2009\)](#) [Next Article >](#)
[Add to Favorites](#) [Share Article](#) [Export Citations](#) [Track Citations](#) [Permissions](#)
[Full-text](#)[PDF](#)

Declan Millett, Nicola Mandall, Joy Hickman, Rye Mattick, Anne-Marie Glenny (2009) Adhesives for Fixed Orthodontic Bands. The Angle Orthodontist: Vol. 79, No. 1, pp. 193-199.

Review Articles

Adhesives for Fixed Orthodontic Bands A Systematic Review

Declan Millett^a, Nicola Mandall^b, Joy Hickman^c, Rye Mattick^d, and Anne-Marie Glenny^e

Abstract

Objective: To evaluate the effectiveness of adhesives used to attach bands to teeth during fixed appliance treatment.

Material and Methods: Electronic databases, conference proceedings and the Internet were searched. There was no restriction with regard to publication status or language of publication. Randomized controlled trials (RCTs) and controlled clinical trials (CCTs) (including split-mouth studies) of adhesives used to attach orthodontic bands to molar teeth were selected. Patients with full arch fixed orthodontic appliance(s) who had bands attached to molars were included. All review authors were involved in study selection, validity assessment, and data extraction. Disagreements were resolved by discussion. Comparisons were made between the main types of adhesive.

Results: Five RCTs and three CCTs were identified, all of split-mouth design. Four trials compared chemically cured zinc phosphate and chemically cured glass ionomer; three trials compared chemically cured glass ionomer cement with light-cured compomer; and one trial compared chemically cured glass ionomer with a chemically cured glass polyphosphonate. Data analysis was often inappropriate within the studies. Meta-analysis was not feasible.

Conclusions: There is insufficient high-quality evidence with regard to the most effective adhesive for attaching orthodontic bands to molar teeth. Further RCTs are required.

Keywords: [Orthodontic bands](#), [Adhesives](#), [Systematic reviews](#)

Accepted: November 2007;

^a Professor of Orthodontics, Oral Health and Development, Dental School, University College Cork, Ireland^b Senior Lecturer/Honorary Consultant in Orthodontics, School of Dentistry, University of Manchester, Lancashire, UK^c Consultant Orthodontist, Department of Orthodontics, Glan Clwyd Hospital, Rhyl, Denbighshire, UK^d Consultant Orthodontist, Department of Orthodontics, Newcastle Dental Hospital, Newcastle upon Tyne, UK^e Lecturer, School of Dentistry, University of Manchester, Lancashire, UKCorresponding author: Professor Declan Millett, Oral Health and Development, University College Cork, Cork, Ireland (d.millett@ucc.ie)


www.angle.org

An International Journal of Orthodontics and Dentofacial Orthopedics



A Publication of the Edward H. Angle Society of Orthodontists and the EH Angle Education and Research Foundation

Volume 79 (1)

November 2009

[Current Issue](#)
[Available Issues](#)


Please **contribute** to the Angle Foundation to help keep this website free and open access

Journal Information

ISSN: 0003-3219

Frequency: Bimonthly

Register for a Profile

Not Yet [Registered?](#)

Benefits of Registration Include:

- A Unique User Profile that will allow you to manage your current subscriptions (including online access)
- The ability to create favorites lists down to the article level
- The ability to customize email alerts to receive specific notifications about the topics you care most about and special offers

[Register Now!](#)

Related Articles

Articles Citing this Article

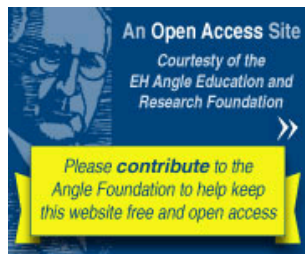
[Google Scholar](#)

Search for Other Articles By Author

- ⊖ Declan Millett
- ⊖ Nicola Mandall
- ⊖ Joy Hickman
- ⊖ Rye Mattick
- ⊖ Anne-Marie Glenny

Search in:

Angle Online



top ▲