

Efficacy of a vibrating dental syringe attachment on pain levels

[P. MURRAY](#), K. TERRETT, E. LYNCH, and D.L. HUSSEY, Queen's University of Belfast, United Kingdom

Aim: To assess if a commercially available vibrating dental syringe attachment, VibraJect LLC (USA), could reduce pain experienced by patients having intraoral injections for dental treatment. **Methods:** Patients selected for the study were due to receive a routine dental injection as part of their treatment. The patients fell into two groups. Group A received one injection using the vibrating dental syringe attachment. Group B, the control group, received one injection using conventional methods. The patients were then asked to grade the injection pain using a visual analogue scale from 0-10. Zero was marked as no pain up to 10 as unbearable pain. The site of injection, the type of injection (infiltration or IDB), the operator and the pain score were all noted for each patient. No other pain relief adjuncts, such as topical anaesthetic gels, were used on any of the patients. **Results:** Subjects receiving the conventional injection methods had a mean pain score of 4.6 (± 0.414) The VibraJect group had a mean pain score of 1.71 (± 0.235)($P < 0.05$). Certain sites had larger decreases in the mean pain score using the VibraJect. These included the upper anterior segment infiltrations and lower right IDB injections. **Conclusions:** The vibrating syringe attachment resulted in reduced pain levels on receiving intraoral injections.

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First Author

Presenting

P Murray

Oral Health Research Centre
Queen's University of Belfast
RVH

Belfast, BT12 6BP
United Kingdom

Phone Number: 00442890250403

Email: e.lynch@qub.ac.uk

Second Author

K Terrett

Oral Health Research Centre
Queen's University of Belfast
RVH

Belfast, BT12 6BP
United Kingdom

Phone Number: 00442890250403

Email: e.lynch@qub.ac.uk

Third Author

E Lynch, BDentSc, MA, PhD
Restorative Dentistry
Queen's University of Belfast

School of dentistry
Grosvenor Rd
Belfast, BT12 6BP
United Kingdom
Phone Number: +442890240503
Fax Number: +44 2890438861
Email: e.lynch@qub.ac.uk
Membership Number: p338465

Fourth Author

David L Hussey
Oral Health Research Centre
Queen's University of Belfast
School of Dentistry
Grosvenor Road
Belfast, BT12 6BP
United Kingdom
Phone Number: 44-2890 240503
Fax Number: 44-2890438861
Email: e.lynch@qub.ac.uk
Membership Number: P19613