

The Wand® Single Tooth Anaesthesia System is a safe and effective method of anaesthetising lower molar teeth for restorative treatment in patients with congenital coagulopathy.

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OBJECTIVES

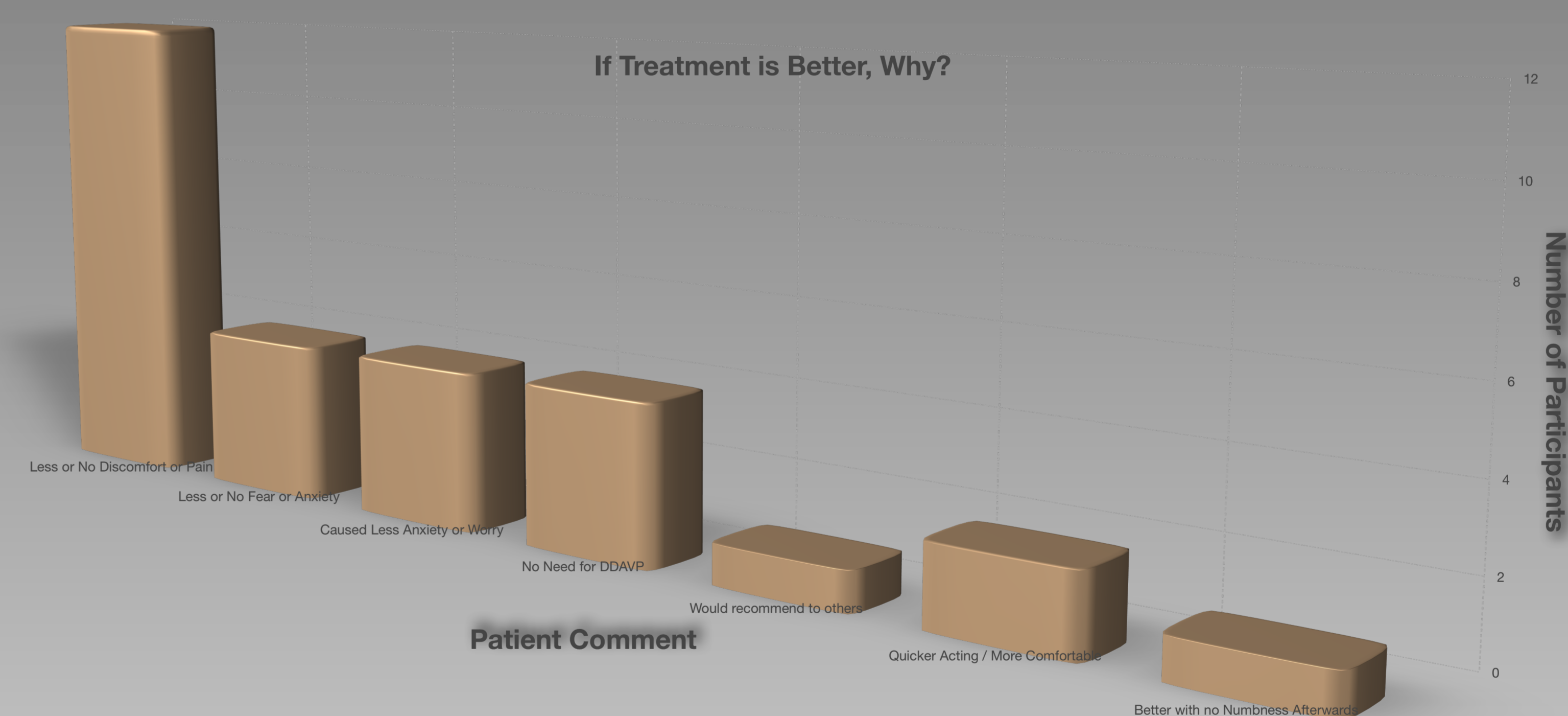
- To determine whether the Wand® Single Tooth Anaesthesia System is a safe and effective method of anaesthetising lower molar teeth for restorative treatment.
- To determine whether the Wand® provides the same depth of anaesthesia as a traditional methods such as an Inferior Dental Nerve block or an infiltration of a local anaesthetic with a greater depth of spread such as a Articaine.
- As this was a new way of working to evaluate its impact on treatment and on patients.

METHODS

A Prospective Study

- 12 patients with congenital coagulopathy who required lower molar teeth restored were recruited to the study during a twelve month period.
- None of the patients received any prophylaxis prior to treatment.
- Teeth were anaesthetised using the Wand® and a local anaesthetic solution of Articaine Hydrochloride 4% with 1:200 000 Epinephrine.
- A post evaluation questionnaire was developed for both patients and clinician and administered post-operatively. The questionnaire was designed to evaluate the efficacy of the Wand® as a reliable method of anaesthetising lower molar teeth for restoration and to investigate how the Wand® might improve the patient's journey.

RESULTS

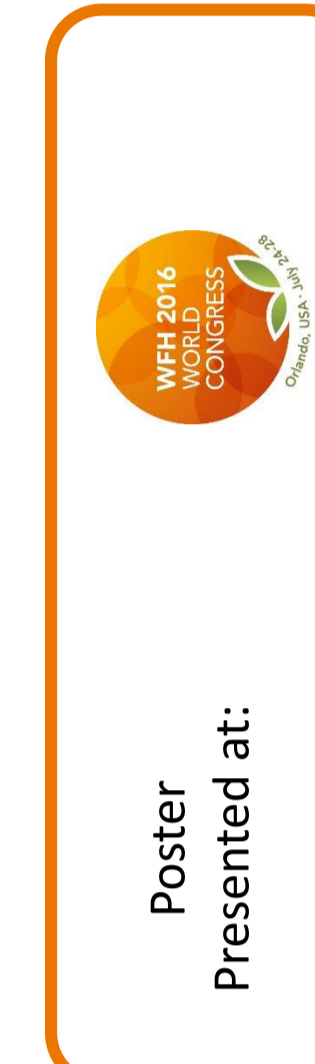


CONCLUSIONS

The Wand® provides a safe and effective method of anaesthetising lower molar teeth for restorative treatment in patients with congenital coagulopathy. Prophylaxis is not necessary with a significant cost saving and also a significant improvement to the patient journey.

REFERENCES:

- Guidance on the dental management of patients with haemophilia and congenital bleeding disorders.*
BDJ 215:497-504, 2013
J. A. M. Anderson, A. Brewer, D. Creagh, S. Hook, J. Mainwaring, A. McKernan, T.T. Yee and C. A. Yeung
- Articaine infiltration versus lidocaine inferior dental block - a review of the literature.*
BDJ 220, 117-120 (2016)
G. Bartlett and J. Mansoor
- Periodontal intraligament injection as alternative to inferior alveolar nerve block - meta-analysis of the literature from 1979 - 2012*
Clin Oral Investig 2014; 18 (2): 351-8



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