

seen under a palatal arch with a Nance button (Figure 12a and b). In addition, the inappropriate design or use of a Nance button can result in ulceration of palatal mucosa if there is excessive force during retraction of upper incisors (Figure 12c). Therefore, the Nance button should be made as big as reasonably possible and the anterior limit of the button should not be too close to the lingual surfaces of the upper anterior teeth.

Other rare iatrogenic complications with fixed appliances include quadhelices embedded in the palatal mucosa and inappropriate activation of quadhelix causing root exposure when left in the mouth for extended periods without careful monitoring (Figure 13a and b).

Conclusion

There are many potential hazards which are related to patient, operator and/or the appliance used for the treatment. It is absolutely essential for orthodontists and general dental practitioners to be aware of these limiting factors and these should be explained to the patients before starting the treatment.

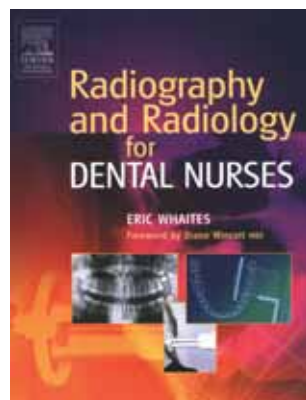
References

1. Kjellgren B. Serial extraction as a corrective procedure in dental orthopaedic therapy. *Acta Odont Scand* 1948; **8**: 17–43.
2. Haynes S. Discontinuation of treatment in the general dental services in England and Wales 1972–79. *Br J Orthod* 1982; **152**: 127–129.
3. Shaw WC, Meek SC, Jones DS. Nicknames, teasing, harassment and the salience of dental features among school children. *Br J Orthod* 1980; **7**: 75–80.
4. O'Brien K, Wright J, Conboy F, Chadwick S, Connolly I, Cook P *et al*. Effectiveness of early orthodontic treatment with the Twin-block appliance: a multicenter, randomized, controlled trial. Part 2: Psychosocial effects. *Am J Orthod Dentofac Orthop* 2003; **124**: 488–494.
5. Shaw WC, Gbe MJ, Jones BM. The expectations of orthodontic patients in South Wales and St. Louis, Missouri. *Br J Orthod* 1979; **6**: 203–205.
6. Shaw WC. Factors influencing the desire for orthodontic treatment. *Eur J Orthod* 1981; **3**: 151–162.
7. Cureton SL, Regennitter FJ, Yancey JM. Clinical versus quantitative assessment of headgear compliance. *Am J Orthod Dentofac Orthop* 1993; **104**: 277–284.
8. Cureton SL, Regennitter FJ, Yancey JM. The role of the headgear calendar in headgear compliance. *Am J Orthod Dentofac Orthop* 1993; **104**: 387–394.
9. Tinsley D, O'Dwyer JJ, Benson PE, Doyle PT, Sandler J. Orthodontic palatal implants: clinical technique. *J Orthod* 2004; **31**: 3–8.
10. Larsson E. Dummy and finger sucking habits with special attention to their significance for facial growth and occlusion. 1. Incidence study. *Swed Dent J* 1971; **64**: 667–672.
11. Larsson E. Dummy and finger sucking habits with special attention to their significance for facial growth and occlusion. 7. The effect of earlier dummy- and finger-sucking habit in 16-year-old children compared with children without earlier sucking habit. *Swed Dent J* 1978; **2**: 23–33.
12. Ballard CF. The clinical significance of innate and adaptive postures and motor behaviour. *Trans Br Soc Study Orthod* 1961; 63–72.
13. *Ethics in dentistry*, BDA advice, B1, June 2000.
14. O'Brien K, Wright J, Conboy F *et al*. Effectiveness of early orthodontic treatment with the Twin-block appliance: a multicenter, randomized, controlled trial. Part 1: Dental and skeletal effects. *Am J Orthod Dentofac Orthop* 2003; **124**: 234–243.
15. Tulloch JF, Proffit WR, Phillips C. Outcomes in a 2-phase randomized clinical trial of early Class II treatment. *Am J Orthod Dentofac Ortho* 2004; **125**: 657–667.
16. Mitchell L. Decalcification during orthodontic treatment with fixed appliances. *Br J Orthod* 1992; **19**: 199–205.

Book Review

Radiography and Radiology for Dental Nurses. By Eric Whaites. London: Elsevier Church Livingstone (£14.99, 21.95 EUR). ISBN 0-443-102139.

This book has been based on Eric Whaites' *Essentials of Dental Radiography and Radiology*.



It is divided into five sections, containing the core basic information that is essential for Dental Nurses undertaking

a Dental Radiography Certificate, with additional information for interest.

Part 1 is a well laid-out, easy-to-read introduction, discussing the radiographic image, how it is produced and interpreting information on film.

Part 2, *Radiation, Physics and Equipment*, usually a perplexing subject in radiography, has been made easier to understand, with the aid of photographs, diagrams, charts and graphs. This section provides key knowledge required in this aspect of radiography.

Part 3, *Radiation Protection*, discusses all current legislation and guidelines in an easy-to-read bullet point format.

Part 4, *Radiography*, is an ideal section for revision or as a reference. It summarizes the main guidelines for patient

care, importance of cross-infection, including the techniques and positioning of intra- and extra-oral films.

Part 5, *Radiology*, contains lots of diagrams and examples of radiographs. This is a very interesting chapter on assessing image quality, detecting caries and periodontal disease, including a fascinating section on abnormalities and lesions that have characteristic radiographic features.

The book concludes with suggestions for further reading.

Radiography and Radiology for Dental Nurses by Eric Whaites would be an excellent resource for Dental Nurses undertaking the post qualification in Dental Radiography, and also for other professions complementary to dentistry.

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