

# Book reviews

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## MINERALIZED TISSUES IN ORAL AND CRANIOFACIAL SCIENCE: BIOLOGICAL PRINCIPLES AND CLINICAL CORRELATES



L. K. McCauley,  
M. J. Somerman (eds)  
UK: Wiley-Blackwell  
price £93.99; pp 392  
ISBN 9780470958339

This text, *Mineralized tissues in oral and craniofacial science*, published in 2012 is an excellent compilation of the rapidly changing concepts in the field of mineralisation with respect to oral and craniofacial science. While there are pathology textbooks that discuss mineralisation, there is no other book available to focus on biological principles and clinical correlates of mineralised tissues in oral and craniofacial region. This 392-page book is organised into three sections: bones of the oral-dental and craniofacial complex, teeth and bone in relation to teeth. Each of these sections was well organised. Section one, bones of the oral-dental and craniofacial complex, starts with a chapter dealing with embryological development, followed by cellular mechanism of bone formation, autosomal disorders and stem cell therapy for craniofacial bone regeneration. Similarly, the second section starts with tooth development, disorders of tooth formation and ends with regeneration strategies. Finally, section three deals with the bone and teeth interface. Biomechanics of teeth is well described in this section and is very interesting.

The authors have made laudable strides to make clinical correlates link with the preceding chapter's labora-

tory research and further keep the contents up to date and relevant to the modern curriculum by adding numerous references to papers published in the last two years. The publisher also offers purchasers downloadable photographs, which can be utilised for academic presentation purposes. More than 150 images are available online. In addition, the textbook is available in e-book format.

In summary, this book is commendable for the extent of its content and its ability to remain up to date. It serves the needs not only of first-year students, but also of various specialists in training and all practitioners looking for a rationale in their diagnosis and treatment.

S. Sunkara

## DENTAL STATISTICS MADE EASY, 2ND EDITION



N. Smeeton  
Radcliffe Publishing  
price £24.99; pp 180  
ISBN 9781846199738

The explosion of information available on the internet, combined with new dental products on the market and increasing interest from the general public, has led to greater discussions of treatment options with the modern day patient. A firm understanding of statistics allows clinicians to quickly assess the quality of evidence read on the internet and in papers. When one hears the word 'statistics', you may think of endless numbers, algebra and confusing formulae, however, this impressive textbook, written for dental students and practitioners, does not focus on number crunching. Instead it success-

fully discusses the theory behind the statistics and how this relates directly to modern day dental practice.

The layout of the text is simple, clear and easy to understand. The informal style used by the author allows the reader to quickly and concisely generate an excellent understanding of basic statistics. The key points are boxed within the sections to reinforce knowledge described in the text. Tables and graphs are kept to a minimum, with the author placing a greater emphasis on dental examples and their relationship with statistics. This makes the book much more relevant for practitioners and clearly shows the importance of statistics in dentistry. The chapters end with questions and answers (of varying difficulties!), perfect for undergraduates. The second edition fantastically updates the references to dental journals at the end of each chapter. These not only include statistical papers, but also references to 'locating subject-specific literature for dental research'.

The initial chapters guide the reader through the details of planning a study and how a study is generated. This follows perfectly on to the types of studies used in dentistry with particular emphasis on randomised control trials. This edition has greatly updated the later chapters, which concentrate on more statistical specifics such as confidence intervals, comparing two means, P-values, chi-squared test and many more. The core emphasis of statistics in dentistry rather than formulae and calculations ensures that the reader appreciates the relevance of the text to daily practice life.

In summary, this excellent text could be renamed 'dental statistics made easy,

enjoyable and relevant! Using examples of how statistics relates to dentistry, rather than numbers and algebra, this book is perfect for understanding essential statistics in modern day evidence-based dentistry.

D. Adam

### CLINICAL CASES IN PEDIATRIC DENTISTRY



A. M. Moursi (ed)  
UK: Wiley-Blackwell  
price £66.95; pp 380  
ISBN 9780813807614

Like fast food outlets and shopping malls this book originates in North America. As such the book's editors, the majority of the contributors and the nomenclature used derive from the States. While this in no way detracts from the contents it does require a quick web search to reacquaint oneself with the Universal Numbering System. More importantly the potential reader should be aware that protocols regarding certain treatments derive from guidelines produced by the American Academy of Pediatric Dentistry, which do appear to vary somewhat when compared with UK guidelines.

Putting this aside, the book offers the reader a very thorough guide to many of the key aspects of paediatric dentistry, covering a wide and comprehensive variety of topics. As the title suggests, the book presents information in the form of case studies, providing details of 64 clinical scenarios. These are grouped logically into nine chapters including, amongst other things, management of the medically compromised patient and dental trauma, as well as sections on pulp therapies, orthodontic considerations and restorative dentistry.

Each case uses the same basic format starting from the patient history, clinical and radiographic examination, through to differential diagnosis, treatment plan and discussion. In addition to providing details of the case, each section also features a series of text boxes that highlight specific information pertinent to the clinical situation under discussion. I found this to be an excel-

lent feature of the book, which helps to put into context the management of each patient as well as discussing related issues and, where appropriate, providing a step-by-step guide to certain clinical procedures. At the end of each clinical case there are a series of questions that test knowledge gained within that particular section.

I was also impressed that the book features recent developments in the management of non-vital immature incisors including most notably the revascularisation technique.

For those involved in education, the authors of the book suggest that the case examples can be used to aid teaching as part of problem-based learning. I put this to the test and found undergraduate students responded positively when presented with scenarios from the book to troubleshoot.

In conclusion, this book presents a wide variety of fundamental aspects related to the holistic management of paediatric dental patients in a concise and thought-provoking manner.

A. McKay

### CLINICAL CASES IN ORTHODONTICS



M. T. Cobourne, P. S. Fleming,  
A. T. DiBiase, S. Ahmad  
UK: Wiley-Blackwell  
price £59.99; pp 456  
ISBN 9781405197793

Written in a case-based format, this book considers a wide variety of orthodontic cases treated mainly in the secondary care setting. There is a logical progression of chapters, however, they are written such that they could also be read in isolation. Each chapter begins by introducing the subject area, followed by a series of relevant cases illustrated with clinical photographs, radiographs and diagrams. The teaching expertise of the authors, four consultant orthodontists, is clear as the cases are well structured with apt questions and answers for the reader to consider. This problem-based approach makes the 11 chapters both easy and interesting to read.

Chapter one introduces clinical examination and outlines the role of cephalo-

metric analysis in treatment planning. Management of the developing dentition is described in the second chapter and the success of appropriate interceptive orthodontic treatment is nicely illustrated with several examples. Chapters three to six are divided into specific malocclusions: Class I, Class II division 1, Class II division 2 and Class III respectively. The reader is guided through the management of each malocclusion in turn, with high quality clinical images and pertinent questions throughout. Chapter seven focuses on problems associated with tooth impaction. Fixed appliances are discussed in Chapter eight, however, I felt that more detail and further explanation would have been beneficial at times. The ninth chapter covers post-treatment stability and the importance of long-term retention. Chapter ten explores orthognathic surgery and is a very interesting read with many fascinating cases. Finally, Chapter 11 considers development of the craniofacial region, another chapter which I feel could be expanded upon in future editions.

Despite some minor typing errors, the text certainly fulfils its aim to 'illustrate contemporary practice using clinical cases and individual examples'. It is thoroughly referenced and I agree with the authors' suggestion that it would be 'of particular benefit for postgraduate orthodontic students preparing for their MSc, MClinDent DDS and Membership examinations in orthodontics'. It covers the salient points of modern orthodontics and would be well used to supplement more theoretical orthodontic textbooks. Although perhaps beyond the scope of that required for the undergraduate curriculum, the text would nevertheless be useful and compelling reading for dental students. Overall it is a well written, illustrated and referenced book that I would recommend to any dental professional with an interest in orthodontics.

M. McErlain