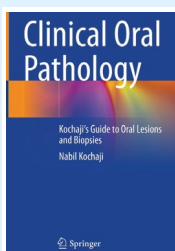


BOOK REVIEW



CLINICAL ORAL PATHOLOGY: KOCHAJI'S GUIDE TO ORAL LESIONS AND BIOPSIES

Nabil Kochaji

2024; Springer Cham; £69.99 (eBook); pp. 170;
ISBN: 978-3-031-53755-4

Nabil Kochaji's *Clinical Oral Pathology: Kochaji's Guide to Oral Lesions and Biopsies* is a comprehensive overview of intra-osseous lesions tailored specifically for dental clinicians of all grades.

The book is organised into four sections, with the narrative following an intuitive arc. The opening chapter discusses the workflow from patient to pathologist, emphasising the importance of histological examination. It then guides the reader through what occurs behind the scenes in the pathology laboratory. Kochaji effectively translates this information into practical advice for clinicians performing biopsies, clearly highlighting the factors that aid a pathologist in determining whether a specimen is diagnostic.

Chapter 2 approaches intra-osseous lesions through a clinical lens, exploring their radiographic appearances and differential diagnoses. The author systematically integrates clinical clues with essential microscopic features, methodically narrowing the differential diagnosis at each stage and offering concise management plans. Unilocular radiolucencies, multilocular radiolucencies, radiopaque entities and mixed lesions are addressed

sequentially, supported by helpful tables, radiographs, and colour photomicrographs.

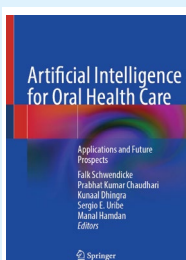
Chapter 3 categorises intra-osseous lesions into odontogenic and non-odontogenic cysts, odontogenic and non-odontogenic tumours, and malignancies (both primary and secondary). Classification, pathogenesis, clinical presentation, differential diagnoses, management and prognosis are thoroughly discussed within each category. The final chapter provides algorithms for unilocular radiolucent lesions and discusses the main lesions that a dentist may encounter (radicular and dentigerous cysts, odontogenic keratocyst and ameloblastoma), supplemented by reflective short stories describing real patients, missed signals and the consequences of delayed referrals.

The content is designed to engage a broad spectrum of learners. Undergraduates will value the detailed yet accessible clinical and theoretical explanations. Postgraduates undertaking higher training will appreciate the easy-to-understand approach to differential diagnoses and the emphasis on evidence drawn from imaging, surgery and microscopy. For general dental practitioners, the most compelling feature will undoubtedly be the chairside transferability of the diagnostic algorithms, enhanced further by cautionary tales that clearly indicate when reassurance is appropriate and when intervention is essential.

Overall, this book represents a well-written, comprehensive and practical resource that provides high-depth insights on intra-osseous lesions for all grades of the clinical team.

Manas Dave

BOOK REVIEW



ARTIFICIAL INTELLIGENCE FOR ORAL HEALTH CARE: APPLICATIONS AND FUTURE PROSPECTS

Editors: Falk Schwendicke, Prabhat Kumar Chaudhari, Kunaal Dhinra, Sergio E. Uribe and Manal Hamdan
2025; Springer Cham; £99.99 (eBook); pp. 197;
ISBN: 978-3-031-84047-0

Artificial Intelligence for Oral Health Care: Applications and Future Prospects offers a comprehensive and timely exploration of the transformative role of artificial intelligence (AI) across various domains of oral health. Aimed at dental clinicians, researchers, academics and digital health innovators, the book connects foundational AI principles with clinical utility in modern dentistry.

The introductory chapters lay a solid groundwork by explaining the core concepts of machine learning, deep learning and their practical application in medical image analysis. The book introduces commonly used AI models for image analysis along with key evaluation measures like precision, recall and the Dice score, helping readers understand how these models are tested and validated. The authors also address vital concerns regarding privacy, ethical use and adversarial attacks, ensuring a balanced understanding of both promise and pitfalls.

Subsequent chapters are thematically structured around specialties including orthodontics, periodontology, cariology, prosthodontics, endodontics, oral and maxillofacial medicine, oral radiology, dental education, and data governance. Clinical applications such as AI-based caries detection in radiographs, predicting oral cancer from genetic and clinical data, staging periodontal disease and optimising implant planning demonstrate how AI is moving from concept to clinical practice. Examples from recent literature and clear illustrations enhance the clinical relevance of the content.

Chapters on dental education and data governance are particularly impactful, urging institutions to embrace AI thoughtfully by adapting curriculum and ensuring data quality and transparency. The book provides a balanced perspective, acknowledging AI's current limitations and addressing the regulatory challenges involved.

This book stands out as an authoritative and engaging resource, presenting AI not merely as a technological advancement but as a practical tool for enhancing patient-centred dental care. Its interdisciplinary scope, clarity of presentation and strong clinical relevance make it valuable for readers at all levels of experience. With its in-depth yet accessible style, it is a highly recommended addition to the library of any oral health professional aiming to stay at the forefront of dental innovation through the meaningful integration of AI into clinical practice.

Mebin George Mathew