


Edition: 1st edition 2003
pages: 296
Images: 183
Cover: Softcover
ISBN: 978-0-86715-399-6
Published: April 2003

Quintessence Publishing Company, Ltd.

 Grafton Road
KT3 3AB New Malden, Surrey
United Kingdom

 +44 (0)20 8949 6087

 +44 (0)20 8336 1484

 info@quintpub.co.uk

 <https://www.quintessence-publishing.com/gbr/en>

Book information

Authors: Georges Eliades
Title: Dental Materials In Vivo
Subtitle: Aging and Related Phenomena

Short text:

This comprehensive review brings together research by biomaterials experts in various fields of dentistry, including oral and maxillofacial surgery, orthodontics, periodontics, prosthodontics, and restorative dentistry. Through the presentation of evidence derived exclusively from in vivo studies, the mechanisms governing the aging of materials placed in the oral cavity are clarified and selective aspects of the in vivo performance of materials demonstrated.

Table of Contents

Foreword

Preface

Section I: Overview

01. General Aspects of Biomaterial Surface Alterations Following Exposure to Biologic Fluids/George Eliades, Theodore Eliades, and Manolis Vavuranakis

Section II: Prosthodontics and Implant Dentistry

02. Aging of Casting Alloys Used in Prosthodontics and Restorative Dentistry/William A. Brantley

03. Ceramic Behavior Under Different Environmental and Loading Conditions/James L. Drummond

04. Characterization of Retrieved Implants: Titanium, Titanium Alloys, and Hydroxyapatite Coatings/Efstratios Papazoglou, William A. Brantley, and Edwin A. McGlumphy

Section III: Restorative Dentistry

05. Alterations of Dental Amalgam/Miroslav I. Marek

06. Aging of Glass-Ionomer Cements/Aphrodite I. Kakaboura

07. Degradation Mechanisms of Dental Resin Composites/Karl-Johan Söderholm

Section IV: Orthodontics

08. Disintegration of Orthodontic Appliances/Arne Hensten-Pettersen and Nils Jacobsen

09. Characteristics of Used Orthodontic Brackets/Claude G. Matasa

10. Aging of Orthodontic Utilities and Auxiliaries/Theodore Eliades, George Eliades, William A. Brantley, and David C. Watts

Section V: Endodontics

11. Aging of Endodontic Instruments and Materials/Spiros Zinelis and John Margelos

Section VI: Oral and Maxillofacial Surgery

12. Aging of Stainless Steel Oral and Maxillofacial Surgical Implants/Elliott J. Sutow

13. Leaching of Metallic Ions from Plates and Screws Used in Jaw Fracture Fixation/Ian R. Matthew

Section VII: Periodontology

14. Sutures in the Oral Cavity/J. Anthony von Fraunhofer

15. Aging of Bioactive Glass Bone-Grafting Materials/John C. Mitchell

Categories: Restorative Dentistry