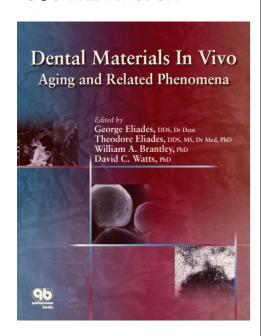
## QUINTESSENCE PUBLISHING UNITED KINGDOM



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
- **J** +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: 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

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

Section II: Prosthodontics and Implant Dentistry

- 2 Aging of Casting Alloys Used in Prosthodontics and Restorative Dentistry/William A. Brantley
- 3 Ceramic Behavior Under Different Environmental and Loading Conditions/James L. Drummond
- 4 Characterization of Retrieved Implants: Titanium, Titanium Alloys, and Hydroxyapatite Coatings/Efstratios Papazoglou, William A. Brantley, and Edwin A. McGlumphy

Section III: Restorative Dentistry

- 5 Alterations of Dental Amalgam/Miroslav I. Marek
- 6 Aging of Glass-Ionomer Cements/Aphrodite I. Kakaboura
- 7 Degradation Mechanisms of Dental Resin Composites/Karl-Johan Söderholm

Section IV: Orthodontics

- 8 Disintegration of Orthodontic Appliances/Arne Hensten-Pettersen and Nils Jacobsen
- 9 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