

Contents

Part I Introduction

- 1 Overview of Metal-on-Metal Implants** 3
Lynne C. Jones, Warren O. Haggard and A. Seth Greenwald
- 2 Bearing Surfaces for Joint Replacement: New Materials or New Problems** 13
Stuart Goodman

Part II Clinical

- 3 Outcome Studies for Metal-on-Metal Bearings: What Evidence-Based Medicine Tells Us** 23
Michael A. Mont and Robert Pivec
- 4 Metal Reactivity: Its Influence on Primary and Revision Outcomes . .** 39
George Grammatopoulos, Hemant Pandit, Adrian Low
and David Murray
- 5 Are Metal Ion Levels a Trigger for Surgical Intervention?** 63
David Langton
- 6 Metal Sensitivity: Is It Possible to Determine Clinically?** 83
Nadim J. Hallab and Paul H. Wooley

Part III Biology

- 7 Wound Healing, Chronic Inflammation, and Immune Responses** 109
Paul H. Wooley and Nadim J. Hallab
- 8 Benign Responses to Orthopaedic Implants: Really?** 135
H. John Cooper and Joshua J. Jacobs

| | |
|---|------------|
| 9 What Does the Histology Tell Us? | 153 |
| Thomas W. Bauer | |
| Part IV Biomechanics | |
| 10 Why Metal-on-Metal: What Laboratory Tests Have Shown Us | 165 |
| Peter Thomas, Burkhard Summer, Marc Thomsen, Veit Krenn and Jan Philippe Kretzer | |
| 11 What Do the Retrievals Really Tell Us? | 173 |
| Robin Pourzal, Robert M. Urban and Markus A. Wimmer | |
| Future Directions | 195 |
| A. Seth Greenwald, Warren O. Haggard, and Lynne C. Jones | |
| Index | 199 |

Metal-on-Metal Bearings

A Clinical Practicum

Jones, L.C.; Haggard, W.O.; Greenwald, A.S. (Eds.)

2014, X, 200 p. 46 illus., 26 illus. in color., Hardcover

ISBN: 978-1-4614-8998-6