



ASTM INTERNATIONAL
Selected Technical Papers

Antimicrobial Combination Devices

STP 1630

Editors:

Kenneth L. Urish

William M. Mihalko



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Foreword

THIS COMPILATION OF Selected Technical Papers, STP1630, *Antimicrobial Combination Devices*, contains peer-reviewed papers that were presented at a symposium held November 5, 2019, in Houston, TX, USA. The symposium was sponsored by ASTM International Committee F04 on Medical and Surgical Materials and Devices, and Subcommittee F04.22 on Arthroplasty.

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Overview

This ASTM Selected Technical Papers (STP1630), *Antimicrobial Combination Devices*, was held in Houston, Texas on November 5, 2019. The objective of this symposium was to discuss unmet needs regarding standards for antimicrobial combination devices including antimicrobial coatings on implants, antibiotic addition to bone cement, and antibiotic eluting devices. This symposium was built on the success of the previously held workshop the year prior. The group discussed the current state of standards and techniques utilized in the field and compared these techniques to other investigative methods. Topics covered include:

- Analysis methods for quantifying biofilm
- Analysis methods for quantifying elution and efficacy
- Antibiotic bone cement
- Antimicrobial coatings on medical devices
- Medical devices that elute antibiotics

The primary intent of this conference was to identify stake holders in this important area and begin to build consensus on the next best steps to move forward. This ASTM STP features the work of distinguished researchers and engineers in the field of infection and medical devices.

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