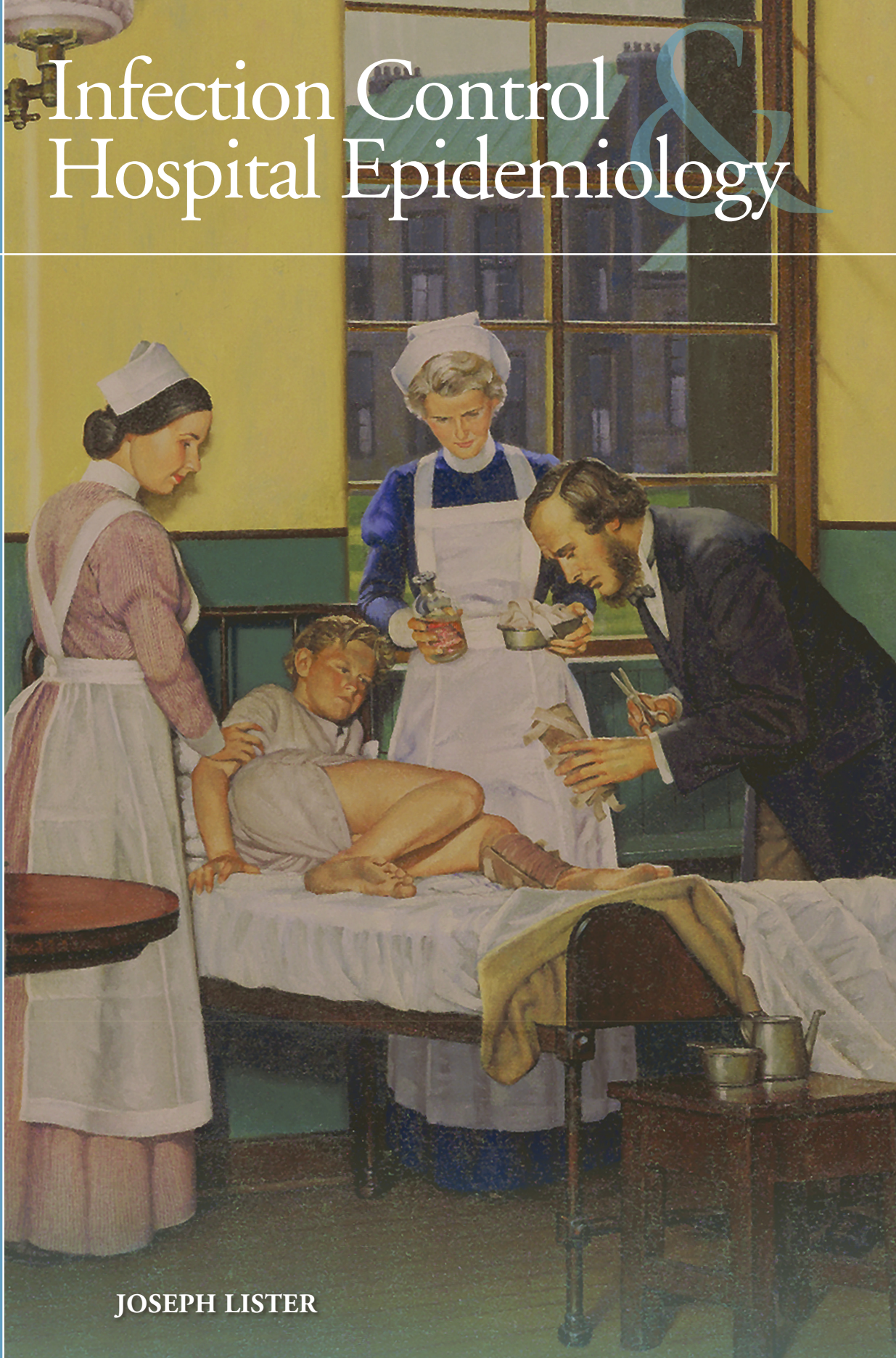


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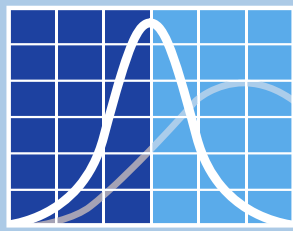
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CONTENTS

Original Articles

- 259** Top 1% of Inpatients Administered Antimicrobial Agents Comprising 50% of Expenditures: A Descriptive Study and Opportunities for Stewardship Intervention
Jennifer Dela-Pena, Luiza Kerstenetzky, Lucas Schulz, Ron Kendall, Alexander Lepak and Barry Fox
- 266** Clinical Risk Score for Prediction of Extended-Spectrum β -Lactamase-Producing *Enterobacteriaceae* in Bloodstream Isolates
Matthew R. Augustine, Traci L. Testerman, Julie Ann Justo, P. Brandon Bookstaver, Joseph Kohn, Helmut Albrecht and Majdi N. Al-Hasan
- 273** Phantom Prescribing: Examining the Frequency of Antimicrobial Prescriptions Without a Patient Visit
Benjamin N. Riedle, Linnea A. Polgreen, Joseph E. Cavanaugh, Mary C. Schroeder and Philip M. Polgreen
- 281** Screening Patients Undergoing Total Hip or Knee Arthroplasty with Perioperative Urinalysis and the Effect of a Practice Change on Antimicrobial Use
Samuel Bailin, Nicolas Noiseux, Jean M. Pottinger, Birgir Johannsson, Ambar Haleem, Sarah Johnson and Loreen A. Herwaldt
- 287** Comparing Catheter-Associated Urinary Tract Infection Prevention Programs Between Veterans Affairs Nursing Homes and Non-Veterans Affairs Nursing Homes
Lona Mody, M. Todd Greene, Sanjay Saint, Jennifer Meddings, Barbara W. Trautner, Heidi L. Wald, Christopher Crnich, Jane Banaszak-Holl, Sara E. McNamara, Beth J. King, Robert Hogikyan, Barbara S. Edson and Sarah L. Krein
- 294** *Clostridium difficile* in an Urban, University-Affiliated Long-Term Acute-Care Hospital
Jerry Jacob, Jingwei Wu, Jennifer Han and Deborah B. Nelson
- 300** An Increase in Healthcare-Associated *Clostridium difficile* Infection Associated with Use of a Defective Peracetic Acid-Based Surface Disinfectant
Jennifer L. Cadnum, Annette L. Jencson, Marguerite C. O'Donnell, Elizabeth R. Flannery, Michelle M. Nerandzic and Curtis J. Donskey
- 306** Lessons From an Outbreak of Legionnaires' Disease on a Hematology-Oncology Unit
Louise K. Francois Watkins, Karrie-Ann E. Toews, Aaron M. Harris, Sherri Davidson, Stephanie Ayers-Millsap, Claressa E. Lucas, Brian C. Hubbard, Natalia A. Kozak-Muiznieks, Edward Khan and Preeta K. Kutty
- 314** Outbreak of *Pantoea agglomerans* Bloodstream Infections at an Oncology Clinic—Illinois, 2012-2013
Brian R. Yablon, Raymund Dantes, Victoria Tsai, Rachel Lim, Heather Moulton-Meissner, Matthew Arduino, Bette Jensen, Megan Toth Patel, Michael O. Vernon, Yoran Grant-Greene, Demian Christiansen, Craig Conover, Alexander Kallen and Alice Y. Guh
- 320** Outbreak of *Klebsiella pneumoniae* Carbapenemase-Producing *Citrobacter freundii* at a Tertiary Acute Care Facility in Miami, Florida
Adriana Jiménez, José G. Castro, L. Silvia Muñoz-Price, Dennise de Pascale, Luis Shimose, Mustapha M. Mustapha, Caressa N. Spychala, Roberta T. Mettus, Vaughn S. Cooper and Yohei Doi

Cover image: Detail of Lister Introduces Antisepsis, from “The History of Medicine” by Robert Thom, used with permission from University of Michigan Museum of Art.

- 327** A Pediatric Approach to Ventilator-Associated Events Surveillance
Noelle M. Cocoros, Gregory P. Priebe, Latania K. Logan, Susan Coffin, Gitte Larsen, Philip Toltzis, Thomas J. Sandora, Marvin Harper, Julia S. Sammons, James E. Gray, Donald Goldmann, Kelly Horan, Michael Burton, Paul A. Checchia, Matthew Lakoma, Shannon Sims, Michael Klompas and Grace M. Lee on behalf of the Pediatric VAC Study Team
- 334** Validation of ICD-9-CM Diagnosis Codes for Surgical Site Infection and Noninfectious Wound Complications After Mastectomy
Margaret A. Olsen, Kelly E. Ball, Katelin B. Nickel, Anna E. Wallace and Victoria J. Fraser
- 340** Risk Factors for Surgical Site Infections Following Neurosurgical Spinal Fusion Operations: A Case Control Study
Thomas L. Walsh, Ashley M. Querry, Sheila McCool, Alison L. Galdys, Kathleen A. Shutt, Melissa I. Saul and Carlene A. Muto
- 348** Assessment of an Aggregate-Level Hand Hygiene Monitoring Technology for Measuring Hand Hygiene Performance Among Healthcare Personnel
Heather M. Limper, Lynn Slawsky, Sylvia Garcia-Houchins, Supriya Mehta, Ronald C. Hershov and Emily Landon

Concise Communications

- 353** An Evaluation of Antibiotic Prescribing Practices Upon Hospital Discharge
Sarah J. Scarpato, Daniel R. Timko, Valerie C. Cluzet, Jillian P. Dougherty, Jonathan J. Nunez, Neil O. Fishman and Keith W. Hamilton for the CDC Prevention Epicenters Program
- 356** Effective Antibiotic Conservation by Emergency Antimicrobial Stewardship During a Drug Shortage
Kevin Hsueh, Maria Reyes, Tamara Krekel, Ed Casabar, David J. Ritchie, S. Reza Jafarzadeh, Amanda J. Hays, Michael A. Lane and Michael J. Durkin
- 360** Quantifying Antimicrobial Exposure: Hazards in Populations With End-Stage Renal Disease
Graham M. Snyder, Christopher McCoy and Erika M. C. D'Agata
- 364** Evaluation of an Ethanol-Based Spray Disinfectant for Decontamination of Cover Gowns Prior to Removal
Sreelatha Koganti, Heba Alhmidi, Myreen E. Tomas, Jennifer L. Cadnum, Christopher Sass, Annette L. Jencson and Curtis J. Donskey
- 367** Uptake and Beliefs Regarding Seasonal Influenza Vaccination Among Childcare Center Staff, Administrators, and Parents
Terri Rebmann, Travis M. Loux and Brendan Daly

Research Briefs

- 371** Hospital-Onset Bloodstream Infection Rates After Discontinuing Active Surveillance Cultures for Methicillin-Resistant *Staphylococcus aureus* in a Regional Burn Center
Bayless E. Drum, Katherine Collinsworth, Brett D. Arnoldo and Pranavi V. Sreeramoju
- 373** Reducing the Rate of Surgical Site Infections After Breast Surgery With the Use of Larger Volumes of 4% Chlorhexidine Gluconate Solution as Preoperative Antiseptic Showering
Jon Persichino, Hayley Lee, Made Sutjita, Karla Talavera, Glenn San-Agustin and Silvia Gnass

Letters to the Editor

- 376** Improving Compliance With Antibiotic Stewardship: What Is the Role of Initial Microscopy on the Management of Mechanically Ventilated Patients?
Leandro Reus Rodrigues Perez, Gabriel Azambuja Narvaez and Cícero Gomes Dias
- 377** Improving the Culture of Culturing: Critical Asset to Antimicrobial Stewardship
Mohamad G. Fakh and Riad Khatib

- 379** Detection of Piperacillin-Tazobactam-Resistant/Pan- β -Lactam-Susceptible *Escherichia coli* with Current Automated Susceptibility Test Systems
Marguerite L. Monogue, Linda K. Tanner, Stephen M. Brecher, Jaber Aslanzadeh and David P. Nicolau
- 380** Pathogen and Procedure Trends Among Surgical-Site Infections at a Children's Hospital: A 20-Year Experience
Jon Woltmann, Joshua K. Schaffzin, Matthew Washam and Beverly L. Connelly
- 382** Oak in Hospitals, the Worst Enemy of *Staphylococcus aureus*?
Hélène Pailhoriès, Muhammad Tanveer Munir, Florence Aviat, Michel Federighi, Christophe Belloncle and Matthieu Eveillard

Corrigendum

- 385** Experience with Rapid Microarray-Based Diagnostic Technology and Antimicrobial Stewardship for Patients with Gram-Positive Bacteremia – CORRIGENDUM
Elizabeth A. Neuner, Andrea M. Pallotta, Simon W. Lam, David Stowe, Steven M. Gordon, Gary W. Procop and Sandra S. Richter

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About the cover:



The cover format of each volume of *Infection Control & Hospital Epidemiology* honors one of the many professionals throughout history who recognized not only how disease might be spread but also how the principles of epidemiology could be applied to reduce healthcare-associated infections.

Joseph Lister (1827–1912) was born to a Quaker family in the outskirts of London. His father, Joseph Jackson Lister, worked as a wine merchant by day and pursued the study of optics as a hobby. His work helped found modern microscopy, for which he was elected to the Royal Academy in 1832.

Young Lister decided to become a surgeon at an early age. Due to his religious affiliation, Lister was barred from attending older universities of greater prestige and settled upon study at the University of London, from which he received his medical degree and Fellowship in the Royal Academy of Surgeons. Lister moved to Edinburgh in 1853 to work under Mr. Syme, one of the preeminent British surgeons of the day. In Edinburgh, Lister made important observations on the pathogenesis of inflammation. He also gained a wife, Syme's daughter, Agnes, but in doing so had to become a member of the Church of England. Agnes worked closely beside Lister for many years, recording his experiments in great detail.

By 1856, Lister assumed professorship in surgery at the University of Glasgow, where he began to develop his principles of antiseptic surgery. At the time, surgical mortality rates from sepsis ranged from 23% to 60%, and it was assumed that putrefaction and purulent infection of wounds originated from tainted air. Based on the work of his colleague, Louis Pasteur, Lister performed a series of meticulous experiments in which he used antiseptics and developed optimal wound dressing techniques that focused on keeping wounds clean rather than excluding air. Lister traveled widely in the United Kingdom, Europe, and the United States promoting his wound-care techniques. He returned briefly to Edinburgh before assuming the Chair of Clinical Surgery at King's College in London. In 1891, Lister became a Founder of the British Institute for Preventive Medicine, the first academic medical research institute in the United Kingdom. He served as the Institute's President, and the organization was ultimately renamed in his honor. Lister served as President of the Royal Society of London and was appointed to the House of Lords. After his death, Lord Lister chose not to be buried in Westminster Abbey but rather was laid to rest next to his wife.

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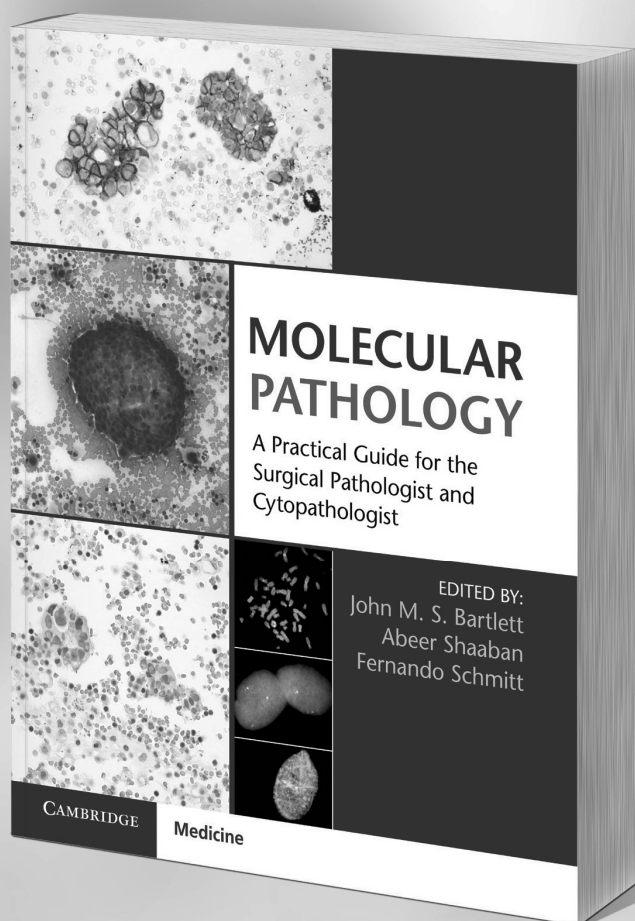
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This practical manual provides a comprehensive yet concise guide to state-of-the-art molecular techniques and their applications. It starts with an overview of the essential principles of molecular techniques, followed by separate chapters detailing the use of these techniques in particular tissues and organs, and describing recommended treatment plans. Each chapter covers the tests available, their advantages, limitations, and use as diagnostic and prognostic tools, with key learning points at the end of each topic. Using both histologic and cytologic samples, it discusses how to interpret test results in a pathologic context and enables trainees and practicing pathologists to gain an in-depth understanding of molecular diagnostic techniques and how to incorporate them into routine diagnostic practice. Aiding the daily practice of refining diagnosis, as well as offering a didactic approach, this book is an essential reference for practicing pathologists and cytopathologists as well as trainees in pathology.

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