

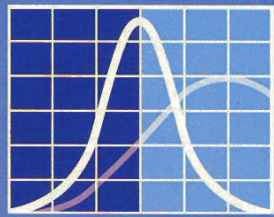
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CONTENTS

Original Articles

- 377** Assessing the Ability of Hospital Diagnosis Codes to Detect Inpatient Exposure to Antibacterial Agents
Michael J. Ray, William E. Trick and Michael Y. Lin
- 383** Physician Perceptions Regarding Antimicrobial Use in End-of-Life Care
Christopher E. Gaw, Keith W. Hamilton, Jeffrey S. Gerber and Julia E. Szymczak
- 391** The Influence of Traffic, Area Location, and Other Factors on Operating Room Microbial Load
Kevin Taaffe, Brandon Lee, Yann Ferrand, Lawrence Fredendall, Dee San, Cassandra Salgado, Dotan Shvorin, Amin Khoshkenar, Scott Reeves, and the Realizing Improved Patient Care through Human-Centered Design in the Operating Room (RIPCHD.OR) Study Group
- 398** How Does a Photocatalytic Antimicrobial Coating Affect Environmental Bioburden in Hospitals?
Matthew Reid, Vanessa Whatley, Emma Spooner, Alan M. Nevill, Michael Cooper, Jeremy J. Ramsden and Stephanie J. Dancer
- 405** Differential Effects of Chlorhexidine Skin Cleansing Methods on Residual Chlorhexidine Skin Concentrations and Bacterial Recovery
Yoona Rhee, Louisa J. Palmer, Koh Okamoto, Sean Gemunden, Khaled Hammouda, Sarah K. Kemble, Michael Y. Lin, Karen Lolans, Louis Fogg, Derek Guanaga, Deborah S. Yokoe, Robert A. Weinstein, Gyorgy Frendl and Mary K. Hayden, for the Centers for Disease Control and Prevention Epicenter Program
- 412** Cost-Effectiveness of Competing Treatment Strategies for *Clostridium difficile* Infection: A Systematic Review
Phuc Le, Van T. Nghiem, Patricia Dolan Mullen and Abhishek Deshpande
- 425** A Generalizable, Data-Driven Approach to Predict Daily Risk of *Clostridium difficile* Infection at Two Large Academic Health Centers
Jeeheh Oh, Maggie Makar, Christopher Fusco, Robert McCaffrey, Krishna Rao, Erin E. Ryan, Laraine Washer, Lauren R. West, Vincent B. Young, John Guttag, David C. Hooper, Erica S. Shenoy and Jenna Wiens
- 434** Immunological Stability of *Clostridium difficile* Toxins in Clinical Specimens
Donna M. Schora, Lance R. Peterson and Elena A. Usacheva
- 439** Medically Attended Catheter Complications Are Common in Patients With Outpatient Central Venous Catheters
Steven S. Spires, Peter F. Rebeiro, Mickie Miller, Katie Koss, Patty W. Wright and Thomas R. Talbot
- 445** Impact of the International Nosocomial Infection Control Consortium (INICC)'s Multidimensional Approach on Rates of Central Line-Associated Bloodstream Infection in 14 Intensive Care Units in 11 Hospitals of 5 Cities in Argentina
Victor Daniel Rosenthal, Javier Desse, Diego Marcelo Maurizi, Gustavo Jorge Chaparro, Pablo Wenceslao Orellano, Viviana Chediack, Rafael Cabrera, Daniel Golschmid, Cristina Graciela Silva, Julio Cesar Vimercati, Juan Pablo Stagnaro, Ivanna Perez, María Laura Spadaro, Adriana Miriam Montanini, Dina Pedersen, Teresa Laura Paniccia, Ana María Ríos Aguilera, Raul Cermesoni, Juan Ignacio Mele, Ernesto Alda, Analía Edith Paldoro, Agustín Román Orta, Bettina Cooke, María Cecilia García, Mora Nair Obed, Cecilia Verónica Domínguez, Pablo Alejandro Saúl, María Cecilia Rodríguez del Valle, Alberto Claudio Bianchi, Gustavo Alvarez, Ricardo Pérez and Carolina Oyola

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- 452** Protecting Healthcare Personnel in Outpatient Settings: The Influence of Mandatory Versus Nonmandatory Influenza Vaccination Policies on Workplace Absenteeism During Multiple Respiratory Virus Seasons
John Frederick, Alexandria C. Brown, Derek A. Cummings, Charlotte A. Gaydos, Cynthia L. Gibert, Geoffrey J. Gorse, Jenna G. Los, Ann-Christine Nyquist, Trish M. Perl, Connie S. Price, Lewis J. Radonovich, Nicholas G. Reich, Maria C. Rodriguez-Barradas, Mary T. Bessesen and Michael S. Simberkoff, for the ResPECT Team
- 462** Evaluation of the Xpert MTB/RIF Performance on Tissues: Potential Impact on Airborne Infection Isolation at a Tertiary Cancer Care Center
Tracy McMillen, Shauna C. Usiak, Liang Hua Chen, Luz Gomez, Peter Ntiamoah, Meera R. Hameed, Indre Budvytiene, Niaz Banaei, Mini Kamboj and N. Esther Babady

APIC/SHEA/SIDP ANTIMICROBIAL STEWARDSHIP POSITION PAPER

Commentary

- 467** Antimicrobial Stewardship and Infection Prevention—Leveraging the Synergy: A Position Paper Update
Mary Lou Manning, Edward J. Septimus, Elizabeth S. Dodds Ashley, Sara E. Cosgrove, Mohamad G. Fakh, Steve J. Schweon, Frank E. Myers and Julia A. Moody

Concise Communications

- 473** The Role of an Antimicrobial Stewardship Team in the Use of Rapid Diagnostic Testing in Acute Care: An Official Position Statement of the Society of Infectious Diseases Pharmacists
Brandon Hill, Navaneeth Narayanan, Elizabeth Palavecino, Katherine K. Perez, Sasha Premraj, Amber Streifel, Rebekah H. Wrenn and Kristen Zeitler
- 476** Hospital-Onset *Staphylococcus aureus* Bacteremia Is A Better Measure Than MRSA Bacteremia for Assessing Infection Prevention: Evaluation of 50 US Hospitals
Mohamad G. Fakh, Rebecca Battjes, Lisa Sturm, Lindsey Jones, Clariencia Groves, Angelo Bufalino and Ann Hendrich
- 479** Hospital-Onset MRSA Bacteremia Rates Are Significantly Correlated With Sociodemographic Factors: A Step Toward Risk Adjustment
Joshua T. Freeman, Matthew R. Blakiston and Deverick J. Anderson
- 482** Response to Alert on Possible Infections with *Mycobacterium chimaera* From Contaminated Heater-Cooler Devices in Hospitals Participating in the Canadian Nosocomial Infection Surveillance Program (CNISP)
Dominik Mertz, Jennifer Macri, Susy Hota, Kanchana Amaratunga, Ian Davis, Lynn Johnston, Bonita Lee, Linda Pelude, Michelle Science, Stephanie Smith and Alice Wong, and the Canadian Nosocomial Infection Surveillance Program (CNISP)
- 485** Safety of Palivizumab Stewardship in Conjunction with Infection Prevention and Control Strategies for Healthcare-Associated Respiratory Syncytial Virus Infections
Rupal M. Patel, Larry K. Kociolek, Emily Merrick, Caroline Reuter, Kenny Kronforst, Xiaotian Zheng and Sameer J. Patel

Research Brief

- 488** Clinical Significance of Low Colony-Count Urine Cultures Among Hospitalized Inpatients
Marc-André Smith, Michael J. Lamb, Laura Baillie, Andrew Simor and Jerome A. Leis

Letters to the Editor

- 490** Fecal Microbiota Transplant for Multidrug-Resistant Organism Decolonization Administered During Septic Shock
Srinivasa Nithin Gopalsamy, Amy Sherman, Michael H. Woodworth, Joseph D. Lutgring and Colleen S. Kraft
- 492** Dissemination of *Staphylococcus epidermidis* ST22 With Stable, High-Level Resistance to Linezolid and Tedizolid in the Greek-Turkish Region (2008–2016)
Ana R. Freitas, Aziz R. Dilek, Luísa Peixe and Carla Novais

- 495** Rethinking the Molecular Diagnostics for Methicillin-Resistant *Staphylococcus aureus*
Claudia Stein, Jörg Tittelbach, Stefan Monecke, Sebastian Weis, Oliwia Makarewicz, Ralf Ehricht and Mathias Pletz
- 496** Outbreak of ST395 KPC-Producing *Klebsiella pneumoniae* in a Neonatal Intensive Care Unit in Palermo, Italy
Carmelo M. Maida, Celestino Bonura, Daniela M. Geraci, Giorgio Graziano, Alessandra Carattoli, Angelo Rizzo, Maria V. Torregrossa, Davide Vecchio and Mario Giuffrè
- 498** Antibiotic Prophylaxis for Breast Oncosurgery in a Setting With a High Prevalence of Multidrug-Resistant Bacteria: Common Sense Infection Control Measures Are More Important Than Prolonged Antibiotics
Namrata Agarwal, Sanjit Kumar Agarwal, Sanjay Bhattacharya, Soumitra Shankar Datta, Sanjoy Chatterjee and Rosina Ahmed
- 500** From Dusk to Dawn: Understanding the Impact of Ertapenem Resistance Mechanisms on the In Vitro Potency of Other Drugs Among *Enterobacter cloacae* Complex Isolates
Leandro Reus Rodrigues Perez
- 502** Legionnaires' Disease and Use of Water Dispensers With an Ultraviolet Sterilizer
Yiu-hong Leung, Shui-wah Yau, Chau-kuen Lam and Shuk-kwan Chuang
- 504** Incidence and Risk Factors of Postoperative Pneumonia in Abdominal Operations Patients at a Teaching Hospital in China
Bizhen Chen, Yuhua Chen, Chunhui Li, Xun Huang, Pengcheng Zhou and Anhua Wu
- 506** Clinical Relevance of the 2014 and 2015 National Healthcare Safety Network's Catheter-Associated Urinary Tract Infection Definitions
Heather L. Young, Bryan C. Knepper, Whitney Daum, Tara Janosz and Larissa M. Pisney

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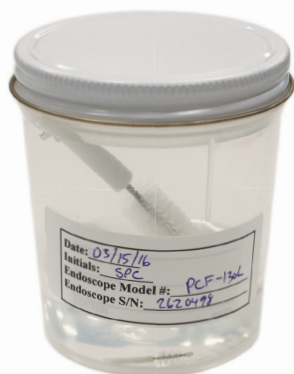


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About the cover:



Since 2015, the cover format of each volume of *Infection Control & Hospital Epidemiology* has been designed to honor one of the many professionals throughout history who not only recognized how disease might be spread but also how to apply those principles to reduce healthcare-associated infections.

John Snow (1813–1858) was 1 of 9 children born to a working-class family in York, England. At the age of 14, he was apprenticed as a surgeon-apothecary with a family friend in Newcastle. He was sent to tend the afflicted in a nearby mining town during a cholera outbreak in 1832. He pursued his medical degree at the University of London, with the sponsorship of a wealthy uncle, and he initially set up a general practice in Soho. He gained fame as a practitioner of the new discipline of anesthesia and tended to Queen Victoria during the births of her children.

On August 24, 1854, a baby died of cholera on Broad Street near Soho. Shortly thereafter, 700 deaths from cholera occurred within a radius of 250 yards, and Snow happened to live nearby. As an anesthetist, he recognized how gases dissipated, and he rejected the prevailing dogma that cholera was spread through the inhalation of atmospheric vapors from decaying material because it would not explain how patients were affected miles away from the source. Snow hypothesized that water, contaminated with some cholera agent in feces, was the more likely explanation.

Using epidemiological principles, he identified who was affected using death certificates and where the illness was acquired (e.g., where case patients lived), then he determined what water supply they had used. He discovered that most households with a cholera case obtained water from the Broad Street pump. Snow ordered that the pump handle be removed. A local curate, Henry Whitehead, initially sought to disprove Snow's suspicions through further surveillance. Instead, Whitehead found that 8-fold more case patients had drunk from the pump than had not. Furthermore, he revealed that deaths occurred more often among residents who resided closest to the pump than in houses located farther away or that used a different water source. Ultimately, a leak between the Broad Street pump and a neighboring cesspool was discovered.

John Snow continued to carefully study the relationship between water contamination and cholera. Unfortunately, his work in epidemiology was ignored or pilloried in editorials in major journals. Snow would not live long enough to be recognized as a founder of modern epidemiology; he died of "apoplexy" or stroke at the age of 45 years. The John Snow Inn and a replica of the Broad Street pump can still be found in what is now called Broadwick Street in Soho, central London.

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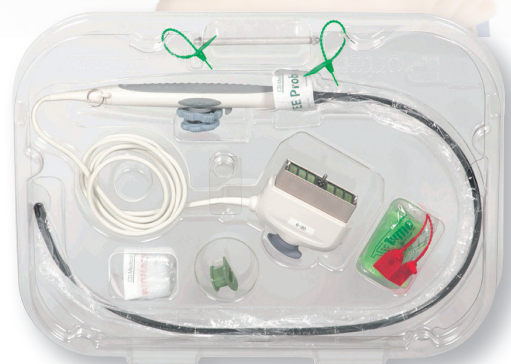
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