Current Awareness Bulletin

Infection Control
December 2014

Guidelines and Guidance

No new guidelines this month.

Journal articles

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American Journal of Infection Control

Commentary

Nebraska Biocontainment Unit perspective on disposal of Ebola medical waste
Pages 1256-1257
John J. Lowe, Shawn G. Gibbs, Shelly S. Schwedhelm, John Nguyen, Philip W. Smith

Middle East respiratory syndrome coronavirus infection control: The missing piece?
Pages 1258-1260
Ziad A. Memish, Jaffar A. Al-Tawfiq

State of the Science Review

Middle East respiratory syndrome coronavirus: Implications for health care facilities Review Article
Pages 1261-1265
Helena C. Maltezou, Sotirios Tsiodras

Major Articles

Environmental sampling for respiratory pathogens in Jeddah airport during the 2013 Hajj season
Pages 1266-1269
Ziad A. Memish, Malak Almasri, Abdullah Assiri, Ali M. Al-Shangiti, Gregory C. Gray, John A. Lednicky, Saber Yezli

Successful containment of carbapenem-resistant Enterobacteriaceae by strict contact precautions without active surveillance
Pages 1270-1273
Nak-Hyun Kim, Woong-Dae Han, Kyoung-Ho Song, Hye-kyung Seo, Myoung-jin Shin, Taek Soo Kim, Kyoung Un Park, Soyeon Ahn, Jung Sik Yoo, Eu Suk Kim, Hong Bin Kim
Impact of universal disinfectant cap implementation on central line–associated bloodstream infections
Pages 1274-1277
Katreena Collette Merrill, Sharon Sumner, Lorraine Linford, Carrie Taylor, Christopher Macintosh

Meta-analysis on central line–associated bloodstream infections associated with a needleless intravenous connector with a new engineering design
Pages 1278-1284
Ying P. Tabak, William R. Jarvis, Xiaowu Sun, Cynthia T. Crosby, Richard S. Johannes

Methicillin-resistant Staphylococcus aureus in public transportation vehicles (buses): Another piece to the epidemiologic puzzle
Pages 1285-1290

Using clinical variables to guide surgical site infection detection: A novel surveillance strategy
Pages 1291-1295
Westyn Branch-Elliman, Judith Strymish, Kamal M.F. Itani, Kalpana Gupta

Burden of present-on-admission infections and health care-associated infections, by race and ethnicity
Pages 1296-1302
Christie Y. Jeon, Peter Muennig, E. Yoko Furuya, Bevin Cohen, Denis Nash, Elaine L. Larson

Qualitative evaluation and economic estimates of an infection control champions program
Pages 1303-1307
Elisa Lloyd-Smith, Jim Curtin, Wayne Gilbart, Marc G. Romney

Multidrug-resistant Pseudomonas aeruginosa infections pose growing threat to health care–associated infection control in the hospitals of Southern China: A case-control surveillance study
Pages 1308-1311
Yang Peng, Jiaqi Bi, Jing Shi, Ying Li, Xiaohua Ye, Xiaofeng Chen, Zhenjiang Yao

Trends in ventilator-associated pneumonia: Impact of a ventilator care bundle in an Italian tertiary care hospital intensive care unit
Pages 1312-1316
Elena Righi, Gabriella Aggazzotti, Elena Ferrari, Chiara Giovanardi, Stefano Busani, Laura Rinaldi, Massimo Girardis

Brief Reports
Examining university students’ sneezing and coughing etiquette
Pages 1317-1318
Thomas D. Berry, Angela K. Fournier

Reducing risk and enhancing education: U.S. medical students on global health electives
Pages 1319-1321
Michael J.A. Reid, Nancy Biller, Sarah M. Lyon, John P. Reilly, Jessica Merlin, Matthew Dacso, Harvey M. Friedman

Attitudinal changes toward control measures in live poultry markets among the general public and live poultry traders, Guangzhou, China, January-February, 2014
Pages 1322-1324
Jun Yuan, Qiuyan Liao, Chao Jun Xie, Xiao Wei Ma, Wen Feng Cai, Yan Hui Liu, Yu Fei Liu, Wen Zhe Su, Yu Ma, Zhi Cong Yang, Richard Fielding, Ming Wang, Eric H.Y. Lau

Detection of hospital outbreaks of influenza-like illness based on excess of incidence rates compared to the community
Pages 1325-1327
Philippe Vanhems, Nicolas Voirin, Thomas Bénet, Sylvain Roche, Vanessa Escuret, Corinne Régis, Marine Giard, Bruno Lina, Brigitte Comte, Brigitte Coppéré, René Ecochard
Ventilator associated pneumonia and endotracheal tube repositioning: An underrated risk factor
Pages 1328-1330
F. McGovern Murphy, M. Raymond, P.-A. Menard, K.-R. Bejar-Ardiles, A. Carignan, O. Lesur

Catheter salvage in home infusion patients with central line–associated bloodstream infection
Pages 1331-1333
Daniel A. Caroff, Anne H. Norris, Sara Keller, Christopher Vinnard, Kristen E. Zeitler, Jennifer Lukaszewicz, Kristine A. Zborowski, Darren R. Linkin, CDC Prevention Epicenters Program

Portable UV light as an alternative for decontamination
Pages 1334-1336
Lasse Per Petersson, Urs-Vito Albrecht, Ludwig Sedlacek, Stefanie Gemein, Jürgen Gebel, Ralf-Peter Vonberg

Contamination of a purified water system by Aspergillus fumigatus in a new endoscopy reprocessing unit
Pages 1337-1339
Kamaljit Khalsa, Andrew Smith, Patrick Morrison, David Shaw, Marie Peat, Paul Howard, Kate Hamilton, Alan Stewart

Antimicrobial susceptibility profiles of Staphylococcus aureus isolates classified according to their origin in a tertiary hospital in Korea
Pages 1340-1342
Hee-Won Moon, Hyun Jung Kim, Mina Hur, Yeo-Min Yun

Journal of Hospital Infection, Volume 88, Issue 4, p183-236 December 2014

Reviews
Nanomedicines for antimicrobial interventions
Pages 183-190
F. Cavalieri, M. Tortora, A. Stringaro, M. Colone, L. Baldassarri

Controlling the spread of vancomycin-resistant enterococci. Is active screening worthwhile?
Pages 191-198
H. Humphreys

Original Articles
Microbiological comparison of hand-drying methods: the potential for contamination of the environment, user, and bystander
Pages 199-206
E.L. Best, P. Parnell, M.H. Wilcox

Endoscopy supply water and final rinse testing: five years of experience
Pages 207-212

Excess length of stay and mortality due to Clostridium difficile infection: a multi-state modelling approach
Pages 213-217

Short Reports
Clostridium difficile ribotype 027 is most prevalent among inpatients admitted from long-term care facilities
Pages 218-221

Outbreak of Clostridium difficile ribotype 027 in a residential home
Pages 222-225
J.J. Clayton, J. McHale-Owen
Cross-colonization of infants with probiotic organisms in a neonatal unit
Pages 226-229
L. Hickey, S.M. Garland, S.E. Jacobs, C.P.F. O'Donnell, S.N. Tabrizi, ProPrems Study Group

Value of an active surveillance policy to document clearance of meticillin-resistant Staphylococcus aureus and vancomycin-resistant enterococci amongst inpatients with prolonged admissions
Pages 230-233
A. Ghosh, L. Jiao, F. Al-Mutawa, C. O'Neill, D. Mertz, Hamilton Health Sciences Infection Prevention and Control Team

Infection Control and Hospital Epidemiology
Vol. 35, No. 12, December 2014
Please note that articles from this journal can only be sourced from the British Library, at a cost of £8 per article.

SHEA White Paper
Guidance for the Knowledge and Skills Required for Antimicrobial Stewardship Leaders
Sara E. Cosgrove, MD, MS; Elizabeth D. Hermsen, PharmD, MBA; Michael J. Rybak, PharmD, MPH; Thomas M. File Jr, MD; Sarah K. Parker, MD; Tamar F. Barlam, MD
Infection Control and Hospital Epidemiology Vol. 35, No. 12: 1444-1451.
http://www.jstor.org/stable/10.1086/678592

Original Articles

Epidemiology of Methicillin-Resistant Staphylococcus aureus Pneumonia in Community Hospitals
Sarah S. Lewis, MD, MPH; Vanessa J. Walker, DO; Mi Suk Lee, MD; Luke Chen, MBBS, MPH; Rebekah W. Moehring, MD, MPH; Christopher E. Cox, MD, MHA, MPH; Daniel J. Sexton, MD; Deverick J. Anderson, MD, MPH
Infection Control and Hospital Epidemiology Vol. 35, No. 12: 1452-1457.
http://www.jstor.org/stable/10.1086/678594

Methicillin-Resistant Staphylococcus aureus: Site of Acquisition and Strain Variation in High-Risk Nursing Home Residents with Indwelling Devices
Kristen E. Gibson, MPH; Sara E. McNamara, MPH, MT(ASCP); Marco Cassone, MD, PhD; Mary Beth Perri, MT(ASCP); Marcus Zervos, MD; Lona Mody, MD, MSc; on behalf of the Targeted Infection Prevention (TIP) Study Team, Ann Arbor, Michigan
Infection Control and Hospital Epidemiology Vol. 35, No. 12: 1458-1465.
http://www.jstor.org/stable/10.1086/678599

A Randomized, Controlled Trial of Chlorhexidine-Soaked Cloths to Reduce Methicillin-Resistant and Methicillin-Susceptible Staphylococcus aureus Carriage Prevalence in an Urban Jail
Michael Z. David, MD, PhD; Jane D. Siegel, MD; Janet Henderson; Greg Leos, MPH; Kaming Lo, MPH; Jerry Iwuora; Emesael Porsa, MD; L. Philip Schumm; Susan Boyle-Vavra, PhD; Robert S. Daum, MD
Infection Control and Hospital Epidemiology Vol. 35, No. 12: 1466-1473.
http://www.jstor.org/stable/10.1086/678606

No Specific Time Window Distinguishes between Community-, Healthcare-, and Hospital-Acquired Bacteremia, but They Are Prognostically Robust
Kim Oren Gradel, DVM, PhD; Stig Lenberg Nielsen, MD; Court Pedersen, DMSc; Jenny Dahl Knudsen, DMSc; Christian Østergaard, DMSc; Magnus Arpi, MD; Thøger Gorm Jensen, PhD; Hans Jørn Kolmos, DMSc; Henrik Carl Schonheyder, DMSc; Mette Søgaard, PhD; Annmarie Touborg Lassen, DMSc; for the Danish Collaborative Bacteraemia Network and the Danish Observational Registry of Infectious Syndromes
Infection Control and Hospital Epidemiology Vol. 35, No. 12: 1474-1482.
http://www.jstor.org/stable/10.1086/678593

Multicenter Evaluation of Computer Automated versus Traditional Surveillance of Hospital-Acquired Bloodstream Infections
Jean-Winoc Decousser, PharmD, PhD; Christian Brun-Buisson, MD
Infection Control and Hospital Epidemiology Vol. 35, No. 12: 1539-1542.

Frequency of Contamination of Single-Patient-Use Nebulizers Over Time
David J. Weber, MD, MPH; Maria F. Gergen, MT(ASCP); Emily E. Sickbert-Bennett, PhD; Kathleen A. Short, RRT, RN; Kendra E. Lanza-Kaduce, MHA; William A. Rutala, PhD, MPH
Infection Control and Hospital Epidemiology Vol. 35, No. 12: 1543-1546.

Research Brief

Clostridium difficile Infection in Hospitalized Patients with Cystic Fibrosis
Chaitanya Pant, MD; Thomas J. Sierra, MD; Abhishek Deshpande, MD, PhD; Mojtaba Olyaee, MD; Richard Gilroy, MD; Michael P. Anderson, PhD; Curtis Donskey, MD
Infection Control and Hospital Epidemiology Vol. 35, No. 12: 1547-1548.

Other Journal Articles

Appraisal of guidelines for pre-operative body wash
Elisabet EdströmLisa WesterbergMaria Henricson

Using double gloves in surgical procedures: a literature review
Mohammed Abdullah Al Maqbali

Infection prevention in ‘Safe Hands’
Clare Nash

Underdiagnosis of *Clostridium difficile* across Europe: the European, multicentre, prospective, biannual, point-prevalence study of *Clostridium difficile* infection in hospitalised patients with diarrhoea (EUCLID)
Kerrie A Davies, Christopher M Longshaw, Georgina L Davis, Emilio Bouza, Frédéric Barbut, Zsuzsanna Barna, Michel Delméé, Fidella Fitzpatrick, Kate Ivanova, Ed Kuijper, Ioana S Macovei, Silja Mentula, Paola Mastrantonio, Lutz von Müller, Mónica Oleastro, Efthymia Petinaki, Hanna Pituch, Torbjörn Norén, Elena Nováková, Otakar Nyč, Maja Rupnik, Daniela Schmid, Prof Mark H Wilcox
The Lancet Infectious Diseases, Volume 14, Issue 12, Pages 1208 - 1219, December 2014
http://www.thelancet.com/journals/laninf/article/PIIS1473-3099(14)70991-0/fulltext

Nonsterile glove use in addition to hand hygiene to prevent late-onset infection in preterm infants: randomized clinical trial.
Kaufman DA, Blackman A, Conaway MR, Sinkin RA.

Infection Control in the Intensive Care Unit.
Osman MF, Askari R.

Department of Health publications

**Guidance: Ebola: infection prevention and control for emergency departments**
20 November, 2014 at 06:10pm
Steps practitioners should take in the event of a person with possible Ebola virus disease (EVD) making first contact with their service.

**Guidance: Ebola: advice for allied health professionals in secondary care**
20 November, 2014 at 06:12pm
Guidance and advice for allied health professionals in secondary healthcare settings who encounter patients with Ebola virus disease (EVD).

**Guidance: Ebola in pregnancy: information for healthcare workers**
20 November, 2014 at 06:21pm
[Updated: Updated guidance in line with ACDP personal protective equipment (PPE) and new fever threshold.] This guidance is aimed at clinical staff undertaking direct care of pregnant patients.

**Guidance: Ebola virus disease: identifying and managing patients for assessment in acute trusts**
20 November, 2014 at 06:15pm
[Updated: Updated guidance in line with ACDP personal protective equipment (PPE) and new fever threshold.] This document is for clinical staff undertaking direct patient care in acute trusts.

**Guidance: Viral haemorrhagic fever: ACDP algorithm and guidance on management of patients**
20 November, 2014 at 06:32pm
[Updated: Updated version of the guidance (November 2014) and algorithm (version 5: 06.11.2014) published.] Specialist guidance on the management (including infection control) of patients with viral haemorrhagic fever (VHF).

**Statistics: Clostridium difficile infection: monthly data by NHS acute trust**
3 December, 2014 at 09:30am
[Updated: Updated to include October 2013 to October 2014 data.] Monthly counts of trust apportioned Clostridium difficile (C. difficile) infections by NHS acute trust in patients aged 2 years and over.

**Statistics: MRSA, MSSA and E. coli bacteraemia and C. difficile infection: quarterly epidemiological commentary**
11 December, 2014 at 09:31am
[Updated: Added commentary for data up to July to September 2014.] National trends in meticillin resistant Staphylococcus aureus (MRSA), meticillin susceptible Staphylococcus aureus (MSSA) and Escherichia coli (E. coli) bacteraemia and Clostridium difficile (C. difficile) infection by quarter.

**Research and analysis: Surgical site infections (SSI) surveillance: NHS hospitals in England**
12 December, 2014 at 04:52pm
[Updated: The following have been added: ‘Surveillance of surgical site infections in NHS hospitals in England: 2013 to 2014’; Surgical site infections surveillance: NHS Trust tables 2013 to 2014] This annual report covers surgical site infection (SSI) data collected by NHS hospitals and independent sector NHS treatment centres.

**Research and analysis: Reported norovirus outbreaks in hospitals: suspected and laboratory-confirmed outbreaks in 2014**
12 December, 2014 at 06:58pm
[Updated: Weeks 45 to 48 report uploaded] Week by week reports of suspected and laboratory-confirmed reported norovirus outbreaks in hospitals, with regional breakdown.

**Research and analysis: Antimicrobial Resistance (AMR) Systems Map**
18 December, 2014 at 10:38am
Visual representation of the factors that lead to the development of antimicrobial resistance and the interaction between them.
From BBC News:
Superbugs to kill 'more than cancer' by 2050
11 December 2014
Drug resistant infections will kill an extra 10 million people a year worldwide by 2050 unless action is taken, a study says.
Read full article

BBC News page on the Ebola outbreak
http://www.bbc.co.uk/news/world-africa-28754546

MRSA Action Newsletter

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