Infection Control & Hospital Epidemiology

Volume 44, No 2
February 2023

ICHE



Artist: Nile Moss

SHEA
The Society for Healthcare Epidemiology of America

CAMBRIDGE UNIVERSITY PRESS

https://doi.org/10.1017/ice.2023.22 Published online by Cambridge University Press

VERIFY WITH CONFIDENCE

HEALTHMARK'S CLEARLY VISIBLE, OBJECTIVE TESTS OF CLEANING METHODS



SCREEN WITH THE **NOW! TEST**

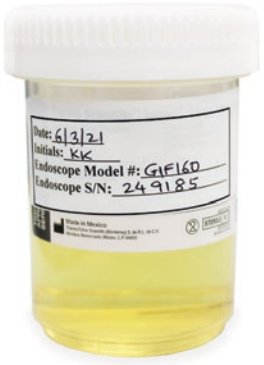
Rapid Indicator of Gram-Negative bacteria

Simply flush the lumen or swab the elevator mechanism of a flexible endoscope, such as a duodenoscope, and follow the procedure for gram-negative bacteria detection in less than 12 hours.

AUDIT WITH THE **FLEXIBLE ENDOSCOPE SAMPLING KIT**

For testing of duodenoscopes in compliance with FDA guidelines

After flushing and brushing the lumen and elevator mechanism of a duodenoscope, simply follow the procedure to have the sample solution & brush heads quickly sent to Nelson Laboratories, the leader in independent testing of flexible endoscopes.





MONITOR WITH **PROFORMANCE™ CLEANING VERIFICATION TOOLS**

Perform weekly testing of all assets of the cleaning process

Challenge the cleaning efficacy of the ultrasonic bath with SonoCheck™, the automated washer with TOSI®, pulse-flow lumen washers with LumCheck™, endoscope washers with FlexiCheck™ and more!

healthmark

HMARK.COM | 800.521.6224

FOR MORE INSTRUMENT CARE & INFECTION CONTROL SOLUTIONS, **VISIT HMARK.COM**

https://doi.org/10.1017/ice.2023.22 Published online by Cambridge University Press

Infection Control & Hospital Epidemiology

Volume 44 2023 Number 2

CONTENTS

Commentaries

171 Leadership in healthcare epidemiology, antimicrobial stewardship, and medicine: A soccer enthusiast's perspective
Gonzalo Bearman

175 Optimizing surveillance for pediatric ventilator-associated events—But are they preventable?
Anna C. Sick-Samuels and Gregory P. Priebe

SHEA Position Paper

178 Principles of diagnostic stewardship: A practical guide from the Society for Healthcare Epidemiology of America Diagnostic Stewardship Task Force
Valeria Fabre, Angelina Davis, Daniel J. Diekema, Bruno Granwehr, Mary K. Hayden, Christopher F. Lowe, Christopher D. Pfeiffer, Anna C. Sick-Samuels, Kaede V. Sullivan, Trevor C. Van Schooneveld and Daniel J. Morgan

Original Articles

186 Successful diagnostic stewardship for *Clostridioides difficile* testing in pediatrics
Katia C. Halabi, Barbara Ross, Karen P. Acker, Jean-Marie Cannon, Maria Messina, Diane Mangino, Krystal Balzer, Alexandra Hill-Ricciuti, Daniel A. Green, Lars F. Westblade, Christine M. Salvatore and Lisa Saiman

191 Mixed-methods process evaluation of a respiratory-culture diagnostic stewardship intervention
Kathleen Chiotos, Deanna Marshall, Katherine Kellom, Jennifer Whittaker, Heather Wolfe, Charlotte Woods-Hill, Hannah Stinson, Garrett Keim, Jennifer Blumenthal, Joseph Piccione, Giyoung Lee, Guy Sydney and Jeffrey Gerber

200 Evaluation of hospital blood culture utilization rates to identify opportunities for diagnostic stewardship
Bobby G. Warren, Michael E. Yarrington, Christopher R. Polage, Deverick J. Anderson and Rebekah W. Moehring

206 Optimizing reflex urine cultures: Using a population-specific approach to diagnostic stewardship
Sonali D. Advani, Nicholas A. Turner, Kenneth E. Schmader, Rebekah H. Wrenn, Rebekah W. Moehring, Christopher R. Polage, Valerie M. Vaughn and Deverick J. Anderson

210 Effecting the culture: Impact of changing urinalysis with reflex to culture criteria on culture rates and outcomes
Jessica A. Penney, Angie Mae Rodday, Paola Sebastiani, David R. Snydman and Shira Doron

216 Epidemiology and outcomes of ventilator-associated events in critically ill children: Evaluation of three different definitions
Dimitra Papakyritsi, Elias Iosifidis, Serafia Kalamitsou, Elisavet Chorafa, Eleni Volakli, Yolanda Peña-López, Maria Sdougka and Emmanuel Roilides

Cover image: ***Outsized, Overwhelming Impact of COVID-19,*** **2020**

https://doi.org/10.1017/ice.2023.22 Published online by Cambridge University Press

222 Risk of bacterial bloodstream infection does not vary by central-line type during neutropenic periods in pediatric acute myeloid leukemia
Caitlin W. Elgarten, William R. Otto, Luke Shenton, Madison T. Stein, Joseph Horowitz, Catherine Aftandilian, Staci D. Arnold, Kira O. Bona, Emi Caywood, Anderson B. Collier, M. Monica Gramatges, Meret Henry, Craig Lotterman, Kelly Maloney, Arunkumar J. Modi, Amir Mian, Rajen Mody, Elaine Morgan, Elizabeth A. Raetz, Anupam Verma, Naomi Winick, Jennifer J. Wilkes, Jennifer C. Yu, Richard Aplenc, Brian T. Fisher, and Kelly D. Getz

230 A mixed-methods evaluation on the efficacy and perceptions of needleless connector disinfectants
Scott C. Roberts, Curtis A. Hendrix II, Lauren M. Edwards, Richard S. Feinn, Richard A. Martinello and Thomas S. Murray

234 Reducing ventriculoperitoneal shunt infection with intraoperative glove removal
Konrad W. Walek, Michal Rajski, Rahul A. Sastry and Leonard A. Mermel

238 Trends in facility-level rates of *Clostridioides difficile* infections in US hospitals, 2019–2020
Ashley N. Rose, James Baggs, Sophia V. Kazakova, Alice Y. Guh, Sarah H. Yi, Natalie L. McCarthy, John A. Jernigan and Sujan C. Reddy

246 Extending outbreak investigation with machine learning and graph theory: Benefits of new tools with application to a nosocomial outbreak of a multidrug-resistant organism
Andrew Atkinson, Benjamin Ellenberger, Vanja Piezzi, Tanja Kaspar, Luisa Salazar-Vizcaya, Olga Endrich, Alexander B. Leichtle and Jonas Marschall

253 Decline in oral antimicrobial prescription in the outpatient setting after nationwide implementation of financial incentives and provider education: An interrupted time-series analysis
Kazuaki Jindai, Takahiro Itaya, Yusuke Ogawa, Tsukasa Kamitani, Shunichi Fukuhara, Michihiko Goto and Yosuke Yamamoto

260 Use of clinical pathways integrated into the electronic health record to address the coronavirus disease 2019 (COVID-19) pandemic
Allison H. Bartlett, Sonya Makhni, Samantha Ruokis, Mary Kate Selling, Lauren Hall, Craig A. Umscheid and Cheng-Kai Kao

268 Healthcare worker safety program in a coronavirus disease 2019 (COVID-19) alternate care site: The Javits New York Medical Station experience
Chad N. Thompson, Christopher Mugford, Joel R. Merriman, Mark A. Chen, Joseph D. Hutter, Thomas J. Maruna, Wanza R. Bacon, Richard W. Childs, Rituparna Pati, G. Travis Clifton and Renee M. Pazdan

277 Investigation of a cluster of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infections in a hospital administration building
Lucas D. Jones, Ernest R. Chan, Jennifer L. Cadnum, Sarah N. Redmond, Maria E. Navas, Trina F. Zabarsky, Elizabeth C. Eckstein, Jeffrey D. Kovach, Marlin Linger, Peter A. Zimmerman and Curtis J. Donskey

284 Healthcare-associated infections on the intensive care unit in 21 Brazilian hospitals during the early months of the coronavirus disease 2019 (COVID-19) pandemic: An ecological study
Ana Paula M. Porto, Igor C. Borges, Lewis Buss, Anna Machado, Bil R. Bassetti, Brunno Cocentino, Camila S. Bicalho, Claudia M.D.M. Carrilho, Cristhieni Rodrigues, Eudes A.S. Neto, Evelyne S. Girão, Filipe Piastrelli, Giovanna Sapienza, Glaucia Varkulja, Karin Kolbe, Luciana Passos, Patricia Esteves, Pollyana Gitirana, Regia D.F. Feijó, Rosane L. Coutinho, Thais Guimarães, Tiago L.L. Ferraz, Anna S. Levin, and Silvia F. Costa on behalf of the HAI/COVID-19 Brazilian Task Force

https://doi.org/10.1017/ice.2023.22 Published online by Cambridge University Press

291 Quantitative fit-test concordance of a pair of similar-fit 3M Aura respirator models, 3M 9320A+ and 3M 1870+: A randomized crossover study
Daryl Lindsay Williams, Benjamin Kave, Fiona Begg, Charles Bodas and Irene Ng

295 HALO CleanSpace PAPR evaluation: Communication, respiratory protection, and usability
Irene Ng, Keat Lee, Benjamin Kave, Michael Kluger, Camille Paynter, Reny Segal, Roni Benjamin Krieser, Paul Mario Mezzavia, Shan Hung, Yinwei Chen, Teresa Sindoni, and Daryl Lindsay Williams

Concise Communication

302 Applying mucosal barrier injury laboratory-confirmed bloodstream infection criteria in patients with solid tumors and hematologic malignancies: A retrospective cohort study looking for the real source of infection
Ana Carolina Puin da Silva, Michely Fernandes Vieira, Maristela Pinheiro Freire, Lumena Vaz, Patrícia Rodrigues Bonazzi, Karim Yaqub Ibrahim, Maria Del Pilar Esteves Diz, Paulo Marcelo Hoff, Juliana Pereira, Vanderson Geraldo Rocha and Edson Abdala

305 Changes in the epidemiology of ventilator-associated events over the course of the coronavirus disease 2019 (COVID-19) pandemic
Jeremy F. Weinberger, Chanu Rhee, Michael Klompas and for the CDC Prevention Epicenters Program

308 Antibiotic prescribing in mental health units across the Veterans' Health Administration: How much and how appropriate?
Jay J. Tieri, Bruce Alexander, Jason A. Egge, Brett H. Heintz and Daniel J. Livorsi

312 Evaluation of fidaxomicin use in community hospitals after a clinical guideline change at a large health system and opportunities for stewardship
Tina M. Khadem, M. Hong Nguyen and J. Ryan Bariola

315 Post-discharge decolonization of patients harboring methicillin-resistant *Staphylococcus aureus* (MRSA) USA300 strains: secondary analysis of the CLEAR Trial
Gabrielle M. Gussin, Lauren Heim, Thomas Tjoa, James A. McKinnell, Loren G. Miller, Daniel L. Gillen, Mohamad R.A. Sater, Yonatan H. Grad, Raveena D. Singh and Susan S. Huang

319 Transfer of methicillin-resistant *Staphylococcus aureus* by fist bump versus elbow bump
Heba Alhmidi, Jennifer L. Cadnum, Brigid M. Wilson and Curtis J. Donskey

322 Incidence of healthcare-associated coronavirus disease 2019 (COVID-19) in the state of Geneva
Denis Mongin, Gaud Catho, Anne Iten, Stephan Harbarth and Delphine S. Courvoisier

325 Transmission risk of severe acute respiratory coronavirus virus 2 (SARS-CoV-2) to healthcare personnel following unanticipated exposure to aerosol-generating procedures: Experience from epidemiologic investigations at an academic medical center
Sharon E. Fawcett, Meghan S. Madhusudhan, Emily N. Gaddam, Matthew J. Almario, Shawna R. Masih, Dee Dee Klute-Evans, Julie C. Johnson, Clarise D. Stroud, Judy A. Dolan-Caren, Michael A. Ben-Aderet, Jeffery Luria, Margie A. Morgan, Eric Vail and Jonathan D. Grein

328 Hospital outbreak of the severe acute respiratory coronavirus virus 2 (SARS-CoV-2) delta variant in partially and fully vaccinated patients and healthcare workers in Toronto, Canada
Erica K. Susky, Susy Hota, Irene E. Armstrong, Tony Mazzulli, Shaindel Kestenberg, Leanne K. Casaubon, John Granton, Carly Rebelo, Erika Bartels, Jeff Wrana and Alon Vaisman

https://doi.org/10.1017/ice.2023.22 Published online by Cambridge University Press

332 Outbreak of severe acute respiratory coronavirus virus 2 (SARS-CoV-2) in hospitalized hemodialysis patients: An epidemiologic and genomic investigation
Charles E. Marvil, Ahmed Babiker, Aaron Preston, Andrew S. Webster, Jeannette Guarner, Kari Love, Elham Ghonim, Paulina A. Rebolledo, Yun F. Wang, Robert A. Arthur, H. Richard Johnston, Jesse J. Waggoner, Anne Piantadosi and Jesse T. Jacob

335 Transfer efficiency of an enveloped virus, human coronavirus 229E, from various hard surface fomites to finger pads of the hands
Charles P. Gerba, Brianna M. Leija, Luisa A. Ikner, Patricia Gundy and William A. Rutala

338 The impact of coronavirus disease 2019 (COVID-19) response on hospital infection prevention programs and practices in the southeastern United States
Sonali D. Advani, Andrea Cromer, Brittain Wood, Esther Baker, Kathryn L. Crawford, Linda Crane, Linda Roach, Polly Padgette, Elizabeth Dodds-Ashley, Ibukunoluwa C. Kalu, David J. Weber, Emily Sickbert-Bennett and Deverick J. Anderson for the Centers for Disease Control and Prevention Epicenters Program

342 Assessing compliance of infection prevention mitigation strategies in hospital construction and renovation
Mark O. Buchanan, Emily E. Sickbert-Bennett, Lauren M. DiBiase and David J. Weber

Research Brief

345 Impact of electronic alerts on repeat urine culture testing: Analysis from a large academic medical center
Satish R. Munigala, Helen Wood, Melanie L. Yarbrough, Ronald R. Jackups Jr, Carey-Ann D. Burnham, Michael J. Durkin, Kevin Hsueh and David K. Warren

Letters to the Editor

348 Monkeypox testing delays: The need for drastic expansion of education and testing for monkeypox virus
Mindy M. Sampson, Christopher M. Polk, Robert T. Fairman, Michael E. DeWitt, Michael K. Leonard, Lisa Davidson, Lewis McCurdy and Catherine L. Passaretti

350 Persistent infection with severe acute respiratory coronavirus virus 2 (SARS-CoV-2) in a patient with untreated human immunodeficiency virus (HIV)
Alice Zhabokritsky, Samira Mubareka, Robert A. Kozak, Finlay Maguire, Lily Yip, Paul Yip and Jeff Powis

352 Severity of SARS-CoV-2 omicron infection in vaccinated and unvaccinated residents of long-term care homes
Ahmed Vanker, Lara de Waal, Allison McGeer and Matthew Morgan

https://doi.org/10.1017/ice.2023.22 Published online by Cambridge University Press

INFECTION CONTROL & HOSPITAL EPIDEMIOLOGY

cambridge.org/ICHE

An Official Publication of the Society for Healthcare Epidemiology of America

EDITOR-IN-CHIEF
David P. Calfee, MD, MS • New York, NY, USA

DEPUTY EDITOR
David Weber, MD, MPH • Chapel Hill, NC, USA

ASSOCIATE EDITORS
Westyn Branch-Elliman, MD, MMSc • Boston, MA, USA
Carol Chenoweth, MD • Ann Arbor, MI, USA
Tara N. Palmore, M.D., Washington, D.C.
Trevor C. Van Schooneveld, MD • Omaha, NE, USA

STATISTICS CONSULTANTS
Jon P. Furuno, PhD • Portland, OR, USA
Jessina C. McGregor, PhD • Portland, OR, USA

MANAGING EDITOR
iche.managingeditor@shea-online.org
Lindsay MacMurray • Brooklyn, NY, USA

SOCIAL MEDIA EDITOR
Alexander J. Sundermann, DrPH, CIC, FAPIC, Pittsburgh, PA, USA

PAST EDITORS, INFECTION CONTROL
Richard P. Wenzel, MD, Infection Control 1980-1987 (vols. 1-8)

PAST EDITORS, INFECTION CONTROL & HOSPITAL EPIDEMIOLOGY
Richard P. Wenzel, MD, 1988-1992 (vols. 9-13)
Michael D. Decker, MD, 1993-2001 (vols. 14-22)
Barry M. Farr, MD, 2000-2004 (vols. 23-25)
William R. Jarvis, MD, 2005-2006 (vols. 26 and 27)
Suzanne F. Bradley, MD, 2007-2021 (vols. 28-42)

EDITORIAL ADVISORY BOARD
Deverick Anderson, MD, MPH • Durham, NC, USA
Anucha Apisarnthanarak, MD • Pratumthani, Thailand
Lennox Archibald, MD, FRCP • Alachua, FL, USA
Jo Anne Bennett, RN, PhD • New York, NY, USA
David Birnbaum, PhD, MPH • Sidney, BC, Canada
Yehuda Carmeli, MD, MPH • Tel Aviv, Israel
Vincent C.C. Cheng, MBBS, MD. • Hong Kong, China
Christopher Crnich, MD, MS • Madison, WI, USA
Erika D' Agata, MD, MPH • Providence, RI, USA
Daniel Diekema, MD • Portland, ME, USA
Elizabeth Dodds Ashley, PharmD • Durham City, NC, USA
Curtis J. Donskey, MD • Cleveland, OH, USA
Charles E. Edmiston, Jr., PhD • Milwaukee, WI, USA
Katherine Ellingson, PhD • Tucson, AZ, USA
Charlesnika T. Evans, PhD • Chicago, IL, USA
Mohamad Fakih, MD, MPH • Grosse Pointe Woods, MI, USA
Jeffery Gerber, MD, PhD • Philadelphia, PA, USA
Dale N. Gerding, MD • Hines, IL, USA
Donald A. Goldmann, MD • Boston, MA, USA
Nicholas Graves, PhD • Singapore, Singapore
Donna Haiduven, PhD, RN, CIC, CPH, FAPIC • Tampa, FL, USA
Anthony D. Harris, MD, MPH • Baltimore, MD, USA
David K. Henderson, MD • Bethesda, MD, USA
Elizabeth Henderson, PhD • Calgary, AB, Canada
Loreen A. Herwaldt, MD • Iowa City, IA, USA
John A. Jernigan, MD, MS • Atlanta, GA, USA
Robin L.P. Jump, MD, PhD • Cleveland, OH, USA
Mini Kamboj, MD • New York, NY, USA
Carol A. Kauffman, MD • Ann Arbor, MI, USA
Michael Klompas, MD • MPH, Boston, MA, USA
Sarah Krein, RN, PhD • Ann Arbor, MI, USA
Karl Madaras-Kelly, PharmD • MPH, Boise, ID, USA
Eric T. Lofgren, MS, PhD • Pullman, WA, USA
Jasmine R. Marcelin, MD • Omaha, NE, USA
Allison McGeer, MD • Toronto, ON, Canada
Leonard A. Mermel, DO, ScM • Providence, RI, USA
Linda Mundy, MD • Collegeville, PA, USA
Ann-Christine Nyquist, MD, MSPH • Aurora, CO, USA
Jan Evans Patterson, MD • San Antonio, TX, USA
David A. Pegues, MD • Philadelphia, PA, USA
Didier Pittet, MD, MS • Geneva, Switzerland
Anusha Rohit, MD, PhD • Dip RCPath, Chennai, India
William A. Rutala, PhD, MPH • Chapel Hill, NC, USA
Lisa Saiman, MD, MPH • New York, NY, USA
Sanjay Saint, MD, MPH • Ann Arbor, MI, USA
Joshua K. Schaffzin, MD, PhD • Ottawa, ON, Canada
Sorana Segal-Maurer, MD • Flushing, NY, USA
Lynne M. Sehulster, PhD • Atlanta, GA, USA
John A. Sellick, DO • Amherst, NY, USA
Erica S. Shenoy, MD, PhD • Boston, MA, USA
Anna C. Sick-Samuels, MD, MPH • Baltimore, MD, USA
Arjun Srinivasan, MD • Atlanta, GA, USA
Kurt Stevenson, MD • MPH, Boise, ID, USA.
Nimalie Stone, MD • Atlanta, GA, USA
Thomas Talbot, MD MPH, • Nashville, TN, USA
Paul Tambyah, MBBS • Singapore
William Trick, MD • Chicago, IL, USA
Antoni Trilla, MD, PhD • Barcelona, Spain
Kavita Trivedi, MD • Alameda Country Public Health Department, San Leandro, CA, USA
Robert A. Weinstein, MD • Chicago, IL, USA
Andreas Widmer, MD, MS • Basel, Switzerland
Marcus Zervos, MD • Detroit, MI, USA

Infection Control & Hospital Epidemiology **(ISSN 0899-823X)** is published monthly by Cambridge University Press, One Liberty Plaza, New York, NY 10006, USA.

Editorial Office
Communications should be addressed to the Editor, *Infection Control & Hospital Epidemiology*, One Liberty Plaza, New York, NY 10006 (email: iche.managingeditor@cambridge.org. Contributors should consult the Instructions for Contributors, which is available at the journal's Web site.

Advertising
Please direct advertising inquiries to M. J. Mrvica Associates, 2 West Taunton Avenue, Berlin, NJ 08009 (e-mail: mjmrvica@mrvica.com; telephone: 856-768-9360, fax: 856-753-0064). Publication of an advertisement in *Infection Control & Hospital Epidemiology* does not imply endorsement of its claims by the Society for Healthcare Epidemiology of America, by the Editor, or by Cambridge University Press.

Permissions
Articles may be copied or otherwise reused without permission only to the extent permitted by Sections 107 and 108 of the US Copyright Law. Permission to copy articles for personal, internal, classroom, or library use may be obtained from the Copyright Clearance Center (http://www.copyright.com, email: info@copyright.com). For all other uses, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale, please contact Cambridge University Press. Full details may be found at: www.cambridge.org/about-us/rights-permissions.

Subscriptions
The individual subscription prices for 2023 are: Print & Online: $305; Online Only: $236. Individuals have the option to order directly from Cambridge University Press. Institutional print + electronic and e-only subscriptions are available from Cambridge University Press and include unlimited online access; rates are tiered according to an institution's type and research output and may be reviewed at the journal's homepage on Cambridge Core: cambridge.org/ICHE.

Please direct subscription inquiries and requests for back issues to Customer Services at Cambridge University Press, e-mail: subscriptions_newyork@cambridge.org (USA, Canada, and Mexico) or journals@cambridge.org (outside of USA, Canada, and Mexico).

Postmaster: Send address changes to *Infection Control & Hospital Epidemiology*, Cambridge University Press, One Liberty Plaza, New York, NY 10006 USA.

About the cover:



Title: *Nile's Joy, Horses & Hope,* 2006

Beginning with volume 43 (January 2022), the cover of *Infection Control & Hospital Epidemiology* (ICHE) will feature art inspired by or reflective of topics within the scope of the journal and their impact on patients, healthcare personnel and our society. These topics include healthcare-associated infections, antimicrobial resistance, and healthcare epidemiology. The intent is to feature original artwork that has been created by individuals who have a personal connection to one or more of these topics through their clinical work, research, or experience as a patient or an affected patient's family member, friend or advocate. The goal is to provide readers with a visual reminder of the human impact of the topics addressed in the journal and the importance of the work being done by those who read or contribute to ICHE and by all who are trying to make healthcare safer through the elimination of healthcare-associated infections.

For more information about the ICHE cover and how to submit artwork for consideration for a future cover, please visit the ICHE website: https://www.cambridge.org/core/journals/infection-control-and-hospital-epidemiology/front-covers

Artist: Nile Moss (1990-2006)
Medium: Tissue paper, stained glass technique

Nile's parents, Carole and Ty Moss, spoke to ICHE about his artwork.
What was the inspiration for this artwork? Nile began every morning with a loud announcement, "It's going to be such a great day!" At the end of the day, he would jump off the school bus and announce, "I had such a great day!" Nile's love of horses began very early in life thanks to his school's participation at a nearby therapeutic riding center. His horses brought him great joy and his faith gave him the hope and promise of a rainbow every day. This piece was inspired by the love Nile had for his horses, Tex and Clutch.

Why is this work appropriate for the cover of *Infection Control & Hospital Epidemiology*? Nile's art expression and techniques blossomed from August 2005 to April 2006 in his first high school art class. He returned home with this final creation on April 14, 2006. His life ended only days later when physicians failed to recognize the initial symptoms of sepsis caused by methicillin-resistant *Staphylococcus aureus* (MRSA) that he had acquired while receiving care in a local hospital. Nile's story represents the preventable harm that happens when people are unaware and unprepared to protect their loved ones and their patients. Patient safety begins with a robust bench of healthcare professionals, including healthcare epidemiologists, infection preventionists and antimicrobial stewards, that are given the knowledge, tools, training and support they need to do their work effectively. Our healthcare professionals deserve to feel joy and hope at the start of each new day, just as Nile did, and not doubt that their hard work saving lives is appreciated.

What is your personnel connection to the content of ICHE? When Nile died, our lives were changed forever. After researching the "why" and the "how," we decided to become a part of the solution to end preventable harm in honor of Nile. We became educated on the science of infection prevention to help inform and empower the public and educate healthcare professionals about what happens when healthcare facilities don't maintain a culture of safety and allow preventable healthcare-associated infections to occur. We celebrate his life every day by empowering the public and healthcare professionals with our story of prevention and action to end preventable healthcare harm.

Carole and Ty Moss are the founders and Executive Directors of Nile's Project, a non-profit organization founded in 2007 to end unnecessary deaths due to preventable hospital-acquired infections. Nile's Project works with survivors, families, healthcare professionals, public health officials, and other advocacy groups to increase public awareness and advocate for changes that will make the healthcare system safer. For more information, visit www.nilesproject.com.

Cover image: *Nile's Joy, Horses & Hope,* 2006

https://doi.org/10.1017/ice.2023.22 Published online by Cambridge University Press