UC Irvine UC Irvine Previously Published Works

Title Planned Analyses of the REDUCE MRSA Trial

Permalink https://escholarship.org/uc/item/7jv3t305

Journal Antimicrobial Agents and Chemotherapy, 58(4)

ISSN 0066-4804

Authors Huang, Susan S Platt, Richard

Publication Date 2014-04-01

DOI 10.1128/aac.02792-13

Peer reviewed

eScholarship.org



Planned Analyses of the REDUCE MRSA Trial

Susan S. Huang,^a Richard Platt^b

Division of Infectious Diseases and Health Policy Research Institute, University of California Irvine School of Medicine, Irvine, California, USA^a; Department of Population Medicine, Harvard Pilgrim Health Care Institute and Harvard Medical School, Boston, Massachusetts, USA^b

n their recent commentary, Kavanagh et al. (1) provided a perspective on recent clinical trials and guidance that raised questions about the universal utility of active screening and contact precautions as the ideal strategy to combat methicillin-resistant *Staphylococcus aureus* (MRSA).

As investigators of the REDUCE MRSA Trial, we would like to provide the following clarifications related to the description of our secondary outcomes. First, the REDUCE MRSA trial has several *a priori* secondary outcomes, only some of which were intended for inclusion in the primary report. In addition to our primary outcome of MRSA clinical cultures attributed to the intensive care unit (ICU), we reported the secondary outcomes of MRSA bloodstream infections and all-cause bloodstream infections in a recently published report (2). However, additional secondary outcomes are under way and include an assessment of urinary tract infections and blood culture contamination, an assessment of the emergence of resistance, and an assessment of cost effectiveness. All secondary outcomes were declared prior to the completion of the trial and prior to performing any analyses (3, 4).

Second, we believe evidence should guide policy. Both our primary and secondary results are consistent with the benefit of decolonization compared with active surveillance in the ICU setting that we evaluated. Additional evidence will always be helpful to guide the best practice for preventing MRSA, other multidrug-resistant organisms, and other health care-associated infections.

REFERENCES

- 1. Kavanagh KT, Saman DM, Yu Y. 2013. A perspective on how the United States fell behind Northern Europe in the battle against methicillinresistant *Staphylococcus aureus*. Antimicrob. Agents Chemother. 57:5789–5791. http://dx.doi.org/10.1128/AAC.01839-13.
- Huang SS, Septimus E, Kleinman K, Moody J, Hickok J, Avery TR, Lankiewicz J, Gombosev A, Terpstra L, Hartford F, Hayden MK, Jernigan JA, Weinstein RA, Fraser VJ, Haffenreffer K, Cui E, Kaganov RE, Lolans K, Perlin JB, Platt R, CDC Prevention Epicenters Program, AHRQ DECIDE Network and Healthcare-Associated Infections Program. 13 June 2013. Targeted versus universal decolonization to prevent ICU infection. N. Engl. J. Med. 368:2255–2265. (Epub ahead of print.) http: //dx.doi.org/10.1056/NEJMoa1207290.
- 3. Agency for Healthcare Research and Quality. 2009. Task order AHRQ HHSA29020050033I-TO10, cluster randomized trial of hospitals to assess impact of targeted vs universal strategies to reduce methicillin-resistant *Staphylococcus aureus* (MRSA) in intensive care units. Task order principal investigator S. S. Huang; DEcIDE Network principal investigator, R. Platt. Agency for Healthcare Research and Quality, Rockville, MD.
- 4. Agency for Healthcare Research and Quality. 2012. Task order AHRQ HHSA290201000008I, analysis and dissemination of results from the cluster randomized trial of hospitals to assess impact of targeted vs universal strategies to reduce MRSA in intensive care units. Task order principal investigator, S. S. Huang; DEcIDE Network principal investigator, R. Platt. Agency for Healthcare Research and Quality, Rockville, MD.

Address correspondence to Susan S. Huang, sshuang@uci.edu. For the author reply, see doi:10.1128/AAC.02821-13. Copyright © 2014, American Society for Microbiology. All Rights Reserved. doi:10.1128/AAC.02792-13