

Acknowledgments

The Joint Commission, Joint Commission Resources, and Joint Commission International are sincerely appreciative of all the individuals and organizations that contributed to the development of this toolkit. Project staff would like to gratefully acknowledge the generous contributions of several groups and persons.

We wish to thank our collaborating organizations for their partnership throughout this project.

We are grateful to the members of the Technical Advisory Panel (TAP), who provided outstanding advice, active participation, and feedback throughout the development

of the toolkit. We were privileged to have domestic and internationally recognized experts on the TAP who not only are committed to reducing the risks associated with the use of central venous catheters but also were a pleasure to work with. We also thank the many reviewers who contributed their knowledge and expertise to this toolkit.

Last, but certainly not least, we are grateful to Baxter Healthcare Corporation for supporting the development of the toolkit with a research grant. Although Baxter had no involvement in the design, writing, or evaluation of the toolkit, we truly appreciate Baxter's important role in making this publication possible.

Technical Advisory Panel

Anucha Apisarntharak, MD

Associate Professor, Thammasat University Hospital, Thailand
International Representative, Thailand

Hanan Balkhy, MD, MMed, FAAP, CIC

Director, WHO Collaborating Centre and
GCC Centre for Infection Control
Associate Professor and Executive Director,
Infection Prevention and Control Department at
King Saud Bin Abdulaziz University for Health Sciences,
Kingdom of Saudi Arabia
International Representative, Saudi Arabia

Lillian Burns, MT, MPH, CIC

Administrative Director, Infection Control/Epidemiology,
Staten Island University Hospital, New York
Representative, Association for Professionals in Infection Control and
Epidemiology, USA

Amani El Kholy, MD, PhD

Professor of Clinical Pathology, Faculty of Medicine, Cairo University
Director of Microbiology Laboratory, Cairo University Hospitals
Member of Supreme Committee for Infection Prevention and Control in
University Hospital
Director of Microbiology Laboratory and
Infection Prevention and Control, Dar Al Fouad Hospital
International Representative, Egypt

Lynelle Foster RN, MN, FRCNA

Clinical Nurse Consultant, Infusion Therapy,
Gold Coast Health Service District, Australia
International Representative, Australia

Leonard Mermel, DO, ScM, AM (Hon), FSHEA, FIDSA, FACP

Professor of Medicine, Warren Alpert Medical School of Brown University
Medical Director, Department of Epidemiology and Infection Control,
Rhode Island Hospital
Representative, Society for Healthcare Epidemiology of America and the
Infectious Diseases Society of America, USA

Naomi P. O'Grady, MD

Staff Clinician and Medical Director,
Procedures, Vascular Access, and Conscious Sedation Services
Representative, National Institutes of Health, Maryland, USA

Victor D. Rosenthal, MD, CIC, MSc

Founder and Chairman, International Nosocomial Infection Control
Consortium (INICC)
Chairman and Professor of Infection Control Post Graduate Course of
Medical College of Buenos Aires, Argentina
Task Force Member of First Global Patient Safety Challenge
("Clean Care Is Safer Care") of World Health Organization
Editorial Board Member of *American Journal of Infection Control*
Argentina

Marcia Ryder PhD, MS, RN

Ryder Science, Medical Biofilm Research, California
Representative, Association for Vascular Access, USA

Patricia W. Stone, PhD, RN, FAAN

Centennial Professor in Health Policy
Director of the Center for Health Policy
Director of the PhD Program
Columbia University, School of Nursing, New York, USA

Walter Zingg, MD

Infection Control Program, University of Geneva Hospitals, Switzerland
International Representative, Geneva, Switzerland

Project Staff

Ann Burke

Consultant
Department of Health Services Research
Division of Healthcare Quality Evaluation
The Joint Commission

Nancy Kupka, PhD, MS, MPH, RN

Project Director
Department of Health Services Research
Division of Healthcare Quality Evaluation
The Joint Commission

Linda Kusek, MPH, RN, CIC

Associate Project Director
Department of Health Services Research
Division of Healthcare Quality Evaluation
The Joint Commission

Jerod Loeb, PhD

Executive Vice President
Division of Healthcare Quality Evaluation
The Joint Commission

Barbara M. Soule, RN, MPA, CIC, FSHEA

Practice Leader, Infection Prevention and Control Services
Joint Commission Resources
Joint Commission International

Scott Williams, PsyD

Associate Director
Division of Healthcare Quality Evaluation
The Joint Commission

Editorial and Production Support

Lori Meek Schuldt

Senior Editor
Department of Publications and Education Resources
Joint Commission Resources

Cheryl Firestone

Senior Project Manager
Department of Publications and Education Resources
Joint Commission Resources

The Joint Commission Mission

The mission of The Joint Commission is to continuously improve health care for the public, in collaboration with other stakeholders, by evaluating health care organizations and inspiring them to excel in providing safe and effective care of the highest quality and value.