

Technical Information Report

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Designing, testing, and labeling medical devices intended for processing by health care facilities: A guide for device manufacturers

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Designing, testing, and labeling medical devices intended for processing by health care facilities: A guide for device manufacturers

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AAMI

Abstract: This technical information report (TIR) provides guidance to medical device manufacturers, who are required to provide instructions that detail the processing steps from pre-treatment at the point of use through the terminal process and storage to accompany reusable and single-use medical devices that are processed by a health care facility prior to clinical use.

Keywords: cleaning, decontamination, disinfection, instructions for use, medical device design, sterilization

AAMI Technical Information Report

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Comments on this technical information report are invited and should be sent to AAMI, Attn: Standards Department, 901 N. Glebe Road, Suite 300, Arlington, VA 22203.

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Committee representation

Association for the Advancement of Medical Instrumentation Instructions for Reusable Device Reprocessing Working Group

This recommended practice was developed by the AAMI Instructions for Reusable Device Reprocessing Working Group under the auspices of the AAMI Sterilization Standards Committee. Approval of the recommended practice does not necessarily mean that all working group members voted for its approval.

At the time this recommended practice was published, the **AAMI Instructions for Reusable Medical Device Working Group** had the following members:

Cochairs: Ralph Basile
Damien Berg

Members: Anas Aljabo, CMC Sterilization Ltd
Ralph Basile, Healthmark Industries Company Inc
Greg Baumgardner, Arthrex Inc
Melinda Benedict, Olympus America Inc
Damien Berg, UCHHealth Medical Center of the Rockies
Dave Billman, Innovative Sterilization Technologies LLC
Lindsey Borton, Smiths Medical
William Brodbeck, STERIS Corporation
Lynn Burbank, Olympus America Inc
Jonathan Burdach, Nanosonics Limited
Lindsay Carrabine, Design Science Consulting
Nancy Chobin
Horlando Cintron, Memorial Sloan Kettering Cancer Center - Monmouth
Dorin Cioraca, SciCan Ltd
Linda Condon, Condon Healthcare Consulting
Lena Cordie-Bancroft, Qualitas Professional Services LLC
Jeremy Criss
Jacqueline Daley, Providence St Joseph Mission Hospital Mission Viejo
Sue Ellen Erickson, Newark Beth Israel Medical Center
Bill Facemire, Boston Scientific Corporation
Susan Flynn, 3M Health Care
Marga Foster, Medline Industries Inc
Tracey French, Texas Health Resources
Marcia Frieze, Case Medical Inc
Zory Glaser, Johns Hopkins University-School of Public Health
Douglas Harbrecht, Sterility Assurance LLC
Emily Hildebrand, Research Collective
Rachel Hill, Lacton Dickinson & Company
Meredith Hutchins, Association for Professionals in Infection Control & Epidemiology
Erin Huber, LexaMed Ltd
Timothy Ingado
Nehar Jain, Intuitive Surgical Inc
Marissa Joosten, NAMSA
Tammara King-Matos, BSI Healthcare
Susan Klacik, IAHCSSM
Karla Klueber, Sanford Healthcare
Lauren Knoell, Stryker Instruments Division
Praveena Kondur, Cardinal Health
Erin Kyle, Association of Perioperative Registered Nurses (AORN)
John LeClair, Memorial Hermann Healthcare System
Jo-Ann Maltais, Maltais Consulting
Jason Marosi, Roper St Francis Healthcare
Jeffrey Martin, Sterilization and Quality System Consulting LLC
Patrick McCormick, Bausch & Lomb Inc
Julie Meyer
Terrence Mistalski, Germitec

Emily Mitzel, GE Healthcare
Melissa Morgan, Moses H Cone Hospital - Cone Health
Nathan Morris, IUVO BioScience
Frank Myers, UC San Diego Healthcare System
Karen Nauss, Mount Auburn Hospital
Susumu Nozawa, Siemens Healthineers
Gerry O'Dell, Gerry O'Dell Consulting
Koyejo Obadina, Abbott Laboratories
Tarika Onishi, DexCom Inc
Kia Parker, The Ohio State Wexner Medical Center-University Hospital
Alpa Patel, Nelson Laboratories, LLC a Sotera Health Company
Andy Petrovich
Uyen Pham, Cantel Inc
Michael Quin, Johnson & Johnson
Dena Ramirez, Company for Individuals
Jessica Schmidt, Analytical Lab Group
Mark Smith, Getinge USA
Richard Sparano, Medtronic Inc Campus
Joan Spear
Gregory Stack, OneSOURCE Document Management Services
Karen Swanson, Connecticut Childrens Medical Center
Donna Swenson
Jania Torreblanca, University of Michigan Health System
Donald Tumminelli, HIGHPOWER Validation Testing & Lab Services Inc
Cindy Turney, St Lukes Health System
Steven Turtill, FDA/CDRH
Brandon VanHee, Key Surgical Inc
Alex Villella, Cenorin
Roger Vu, Advanced Sterilization Products (ASP)
Lisa Wakeman, Indiana University Health
Jill Warren, WuXi AppTec Inc
Juergen Wegmann, B Braun of America Inc
Peter Whitehurst, ResMed Inc.
James Wiggs
Jo Wood
Jarl Yeager, Powder River Medical Resources
Christine Yunker, Abbott Laboratories
Jennifer Zeck, Samaritan Health Services
David Zinkus, Baxter Healthcare Corporation
Roberto Zumbado, Philips

Alternates:

Savannah Asbury, Medtronic Inc Campus
Carolyn Braithwaite Nelson, Philips
Greg Crego, IUVO BioScience
Brandon Dell'Arcia, Baxter Healthcare Corporation
Staci DeMoss, NuMed USA
Shawn Enghart
Steven Fawcett, Cantel Inc
Charles Fink, ResMed Inc.
Daniel Fowler, WuXi AppTec Inc
Maguis Granam, BSI Healthcare
John Harper, Sterile Edge
Julie Hoover, Johnson & Johnson
Tera Kolbeck, Abbott Laboratories
Michael Krauss, Alcon Laboratories Inc
Kaumudi Kulkarni, Healthmark Industries Company Inc
Kelly Makimoto, SciCan Ltd
Kathleen McMullen, Association for Professionals in Infection Control & Epidemiology
Lia Moshkanbaryans, Nanosonics Limited
Michael Neilson, Becton Dickinson & Company
Walt Oko, Innovative Sterilization Technologies LLC
Edmund Orr, Arthrex Inc
Ryan Ortega, FDA/CDRH
Bethany Phillips, APIC
Jason Pope, Sotera Health LLC

Benjamin Rafferty, Analytical Lab Group
Marc Rogers, Advanced Sterilization Products (ASP)
Dawn Rooney, OneSOURCE Document Management Services
Antonio Rosales, Karl Storz Endoscopy
Sam Rudolf, Hill-Rom Holdings
Mandy Ryan, Stryker Instruments Division
Michael Schoene, Bausch & Lomb Inc
Anne Schuler, LexaMed Ltd
Timothy Skordahl, STERIS Corporation | Healthcare
Donald Socha, Getinge USA
Gary Socola, HIGHPOWER Validation Testing & Lab Services Inc
Jillian Vocke, Medline Industries Inc
Brian Wallace, Intuitive Surgical Inc
Emily Waller, 3M Health Care
Jonathan Wilder, Quality Processing Resource Group LLC
David Winkler, Veterans Administration (VA) Central Office
Jon Wood, IAHCMM
Nicole Zuk, Siemens Healthineers

NOTE Participation by federal agency representatives in the development of this technical information report does not constitute endorsement by the federal government or any of its agencies.

AAMI Sterilization Standards Committee

Cochairs: Janet Prust
Patrick Weixel

Members: Anas Aljabo, CMC Sterilization Ltd
Brett Anderson, Cochlear Ltd
Jennifer Asleson, Quality, Microbiology & Sterilization Services LLC
Richard Bancroft, STERIS Corporation
Marie Brewer, UnityPoint Health St Lukes Hospital
Trabue Bryans, BryKor LLC
Jonathan Burdach, Nanosonics Limited
Tim Carlson, Becton Dickinson & Company
Charles Cogdill, Medtronic Inc Campuses
Lena Cordie-Bancroft, Qualitas Professional Services LLC
Emily Craven, Boston Scientific Corporation
Jacqueline Daley, Providence St Joseph Mission Hospital Mission Viejo
Gordon Ely, LexaMed Ltd
Dan Floyd, DuPont Tyvek Medical and Pharmaceutical Protection
Lisa Foster, Aduvo QSP Services Consulting
Daniel Fowler, WuXi AppTec Inc
Joel Gorski, NAMCO
Magnus Graham, 3M Healthcare
Joyce Hansen, Johnson & Johnson
Douglas J. Hought, Sterility Assurance LLC
Mollie K. Hutter, MicroBio Consulting LLC
Stephanie Komuth, Hennepin County Medical Center Warehouse
Cory Hougen, Cosmed Group Inc
Susan Klacik, IAHCMM
Eric Kyle, Association of Perioperative Registered Nurses (AORN)
Byron Lambert, Abbott Laboratories
Michelle Luebke, Baxter Healthcare Corporation
Patrick McCormick, Bausch & Lomb Inc
Joan Nelson-Young, Montefiore Medical Center
Leslie Nichols, Mayo Clinic
Gerry O'Dell, Gerry O'Dell Consulting
Tarika Onishi, DexCom Inc
Kia Parker, The Ohio State Wexner Medical Center-University Hospital
Suzanne Patterson, CIVCO Medical Solutions
Janet Prust, 3M Health Care
Nancy Rakiewicz, IUVO BioScience
Linda Schultz, Northside Hospital Surgical Services Atlanta

Kristen Singleton, Getinge USA
Joan Spear
Sopheak Srun, Quality Tech Services LLC
Mark Swanson, H&M Consulting Group LLC
James Treharn, St Peters Community Hospital
Patrick Weixel, FDA/CDRH
James Wiggs
Roberto Zumbado, Philips

Alternates: Josh Abdo, CIVCO Medical Solutions
Jennifer Benolken, DuPont Tyvek Medical and Pharmaceutical Protection
Stacy Bohl, Boston Scientific Corporation
Carolyn Braithwaite-Nelson, Philips
Greg Crego, IUVO BioScience
Chad Geiger, DexCom Inc
Anna Grayson, Grayson Associates
John Harper, Sterile Edge
Gerald McDonnell, Johnson & Johnson
David McGoldrick, Abbott Laboratories
Nicole McLees, 3M Health Care
Kimberly Patton, Becton Dickinson & Company
Christine Render, Cosmed Group Inc
Mike Sadowski, Baxter Healthcare Corporation
Mary Sheehan, BSI Healthcare
Mark Smith, Getinge USA
Molly Swanson, Quality Tech Services LLC
Lisa Ward, STERIS Corporation
Jill Warren, WuXi AppTec Inc
Martell Winters, Sotera Health LLC
Jon Wood, IAHCMM

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Foreword

The following verbal forms are used within AAMI documents to distinguish requirements from other types of provisions in the document:

- “shall” and “shall not” are used to express requirements;
- “should” and “should not” are used to express recommendations;
- “may” and “may not” are used to express permission;
- “can” and “cannot” are used as statements of possibility or capability;
- “might” and “might not” are used to express possibility;
- “must” is used for external constraints or obligations defined outside the document; “must” is not an alternative for “shall.”

Suggestions for improving this document are invited. Comments and suggested revisions should be sent to Standards, AAMI, 901 N. Glebe Road, Suite 300, Arlington, VA 22203 or standards@aami.org.

Introduction

Scientific advances in diagnostic and therapeutic medicine have led to the development of new and sophisticated medical devices for use by health care personnel. These devices vary in size, complexity, fragility, and immersibility, as well as sensitivity to cleaning, disinfecting, and sterilizing agents and the processes that are used. Manufacturers of medical devices intended to be processed by facilities have the responsibility to support product label claims by providing complete and comprehensive written instructions for the handling, cleaning, disinfection, testing, packaging, sterilization, as applicable, of their products. Manufacturers also have the responsibility to conduct and document any testing necessary to validate the suitability of these instructions. Manufacturers have these obligations under U.S. Food and Drug Administration (FDA) labeling regulations (21 CFR 801 [67]). Detailed FDA recommendations are provided in the FDA guidance document, *Reprocessing Medical Devices in Health Care Settings: Validation Methods and Labeling: Guidance for Industry and Food and Drug Administration Staff* (FDA, Issued March 17, 2015; Updated June 9, 2017). Similarly, ANSI/AAMI/ISO 17664, *Processing of health care products – Information to be provided by the medical device manufacturer for the processing of medical devices* also applies to manufacturers of medical devices that are intended to be processed by a health care facility to be made ready for use on the next patient.

This Technical Information Report (TIR) is intended to assist medical device manufacturers in designing, testing, and labeling devices intended to be processed by a health care facility and to provide information that complies with the requirements presented in FDA, ISO, and relevant AAMI documents. In addition, greater detail will be provided about the processes and resources that a health care facility can have for processing devices. This should provide further assistance to medical device manufacturers (MDMs) in developing their processing instructions.

Health care personnel have the responsibility to obtain and review manufacturers' data and recommendations and to ensure that they have the necessary resources to follow manufacturers' instructions thoroughly. This TIR can serve as a resource for identifying the questions health care personnel should ask manufacturers when considering a product for purchase or when devising a processing protocol for a product already being used. See also ANSI/AAMI ST40, ANSI/AAMI ST41, ANSI/AAMI ST58, ANSI/AAMI ST79, AAMI TIR55, and ANSI/AAMI ST91.

NOTE This technical information report is not a standard, and the material contained herein is not normative in nature. The committee has used the term "shall" in a few instances, based on their knowledge of requirements contained in relevant standards and regulatory requirements.

Designing, testing, and labeling medical devices intended for processing by health care facilities: A guide for device manufacturers

1 Scope

This document provides guidance to medical device manufacturers, who are required to provide instructions that detail the processing steps from pre-treatment at the point of use through the terminal process and storage to accompany reusable and single-use medical devices that are processed by a health care facility prior to clinical use.

Textile devices used in patient draping systems or surgical clothing that are covered in ANSI/AAMI PB70 [5], and medical devices specified by the manufacturer as single-use and not to be processed by the health care facility are not included in the scope of this document.

2 Normative references

The following documents are provided for information.

ANSI/AAMI/ISO 17664:2017, *Processing of health care products — Information to be provided by the medical device manufacturer for the processing of medical devices*

AAMI TIR55, *Human factors engineering for processing medical devices*

AAMI/ANSI/ISO 11607³¹, *Packaging for terminally sterilized medical devices*

ANSI/AAMI/ISO 13485, *Medical devices - Quality management systems - Requirements for regulatory purposes*

ANSI/AAMI/ISO 15223-1:2016, *Medical devices - Symbols to be used with medical device labels, labelling and information to be supplied - Part 1: General requirements*

AAMI ST41, *Ethylene oxide sterilization in health care facilities: Safety and effectiveness*

AAMI TIR30², *A compendium of processes, materials, test methods, and acceptance criteria for cleaning reusable medical devices*

AAMI ST98³, *Cleaning validation of health care products — Requirements for development and validation of a cleaning process for medical devices*

ANSI/AAMI ST58, *Chemical sterilization and high-level disinfection in health care facilities*

ANSI/AAMI ST77, *Containment devices for reusable medical device sterilization*

ANSI/AAMI ST79, *Comprehensive guide to steam sterilization and sterility assurance in health care facilities*

¹ Entire series.

² Document is intended to be superseded by AAMI ST98, which is currently under preparation.

³ Under preparation.