STANDARDS UPDATE

AAMI Standards Insider

We appreciate everyone who joined us for the AAMI Standards Insider webinar, hosted on 28 September 2023, 1:30pm (EST). The **one-hour FREE webinar** provides news and updates about AAMI’s standards program and portfolio. Registration for the upcoming webinars and recordings of past webinars in the series is available on the [webpage](#).

Publications

Check the next edition of the SMO for any new publications.

NATIONAL STANDARDS

AAMI Call for Comments

*If you would like to comment on one of the draft documents listed below, contact the individual indicated by email to receive a PDF copy of the draft. These copies are free.*

*Published documents proposed for reaffirmation can be purchased from the AAMI Store.*

**Comments due 17 November 2023**

AAMI/ISO 18472, Sterilization of health care products—Biological and chemical indicators—Test equipment. *(reaffirmation of an American National Standard)* This document specifies requirements for test equipment to be used to test biological indicators for steam, ethylene oxide gas and dry heat sterilization processes for conformity to the requirements given in ISO 11138 series and test chemical indicators for steam, ethylene oxide gas, dry heat and vaporized hydrogen peroxide sterilization processes for conformity to the requirements given in ISO 11140-1:2014. Contact: Tommy Kim

**Comments due 28 November 2023**

AAMI ST40, Table-top dry heat (heated air) sterilization and sterility assurance in health care facilities. *(reaffirmation of an American National Standard)* This recommended practice provides guidelines for decontamination and dry heat sterilization procedures used in dentists’ and physicians’ offices,
laboratories, ambulatory care clinics, and other health care facilities. These guidelines are intended to promote the assurance of sterility by identifying the special considerations that apply to this method of sterilization and by providing recommendations on the proper use of table-top dry heat sterilization processing equipment. This recommended practice also covers facility design considerations, personnel considerations, work practices, and other variables that affect sterility assurance. Contact: Mike Miskell

AAMI ST50, Dry heat (heated air) sterilizers. (reaffirmation of an American National Standard) This standard applies to dry heat (heated air) sterilizers that are intended for use in dental and medical offices, laboratories, ambulatory-care clinics, hospitals, and other health care facilities. Contact: Mike Miskell

AAMI/ISO 22441:202X, Sterilization of health care products -- Low temperature vaporized hydrogen peroxide -- Requirements for the development, validation and routine control of a sterilization process for medical devices. (proposed identical national adoption of ISO 22441:2022) This document provides requirements for the development, validation and routine monitoring and control of a low temperature sterilization process for medical devices using vaporized hydrogen peroxide (VH2O2) as the sterilizing agent. It is also intended to be applied by process developers, manufacturers of sterilization equipment, manufacturers of medical devices to be sterilized, organizations performing process validation of VH2O2 sterilization, and organizations responsible for sterilizing medical devices. Contact: Mike Miskell

AAMI/ISO 11607-1:2019/Amd 1:202X, Packaging for terminally sterilized medical devices - Part 1: Requirements for materials, sterile barrier systems and packaging. (proposed identical national adoption of ISO 11607-1:2019/Amd 1:2023) This amendment narrows the scope to AAMI/ISO 11607-1:2019 and revises some terms and definitions, general requirements, design and development for packaging systems, and annexes relating to risk management. Contact: Mike Miskell


Comments due 19 December 2023

AAMI/ISO 13408-1:202X, Aseptic processing of health care products — Part 1: General requirements. (proposed identical national adoption of ISO 13408-1:2023) This document specifies the general requirements for, and offers guidance on, processes, programs and procedures for development,
validation and routine control of aseptic processing of health care products. This document includes requirements and guidance relative to the overall topic of aseptic processing. Contact: Mike Miskell

AAMI/ISO 11137-2, Sterilization of health care products—Radiation—Part 2: Establishing the sterilization dose. (reaffirmation of an American National Standard) This document specifies methods for determining the minimum dose needed to achieve a specified requirement for sterility and methods to substantiate the use of 25 kGy or 15 kGy as the sterilization dose to achieve a sterility assurance level, SAL, of 10-6. This document also specifies methods of sterilization dose audit used to demonstrate the continued effectiveness of the sterilization dose. This document defines product families for sterilization dose establishment and sterilization dose audit. Contact: Mike Miskell


**New Work**

AAMI AI, Artificial Intelligence Committee. The committee will work on the development of AAMI AI120/Ed.1, Bias Management for Machine Learning Systems. This new standard will provide a methodology (based on ISO 14971) to identify and manage unwanted bias in the performance of Machine Learning (ML) systems. Contact: Rachel Porter

AAMI AI, Artificial Intelligence Committee. The committee will work on the development of AAMI CR515/Ed.1, Taxonomy of Medical Device Machine Learning Cybersecurity Threats and Protection Techniques. This new consensus report will identify the unique cybersecurity threats and vulnerabilities along with potential controls for Machine Learning (ML) based medical devices. This would include a discussion about different types of attacks on ML systems, for e.g., privacy attacks, poisoning attacks, and availability attacks, as well as a discussion about the vulnerabilities that enable such attacks. An analysis of the vulnerabilities that can manifest throughout the data lifecycle will also be presented. Potential controls to mitigate these threats and vulnerabilities will also be explored. Contact: Rachel Porter

**Consensus Body Members Needed**

The committees listed below are seeking new members in the indicated stakeholder interest category to participate in the development of their documents. Definitions of the various stakeholder groups are:

**Industry:** A member of a consensus body who, as an individual or organizational representative, is involved in the commercial production, promotion, sale, use or distribution of materials, products,
systems, or services covered in the scope of technical documents developed by AAMI shall be classified as an Industry Interest stakeholder. Individuals in this interest category include manufacturers, those involved in supply chains, employees of test labs or commercial labs, industry consultants, etc.

**User:** A member of a consensus body who, as an individual or organizational representative, purchases, utilizes or receives the materials, products, systems, or services covered in the scope of technical documents developed by AAMI in the delivery of healthcare shall be classified as a User Interest stakeholder. Individuals in this interest category include clinicians, employees or representatives of Healthcare Delivery Organizations, clinical consultants, patients, etc.

**Regulatory:** A member of a consensus body who, as an individual or organizational representative, is involved in the regulation of the materials, products, systems, or services covered in the scope of the technical documents developed by AAMI shall be classified as a Regulatory Interest stakeholder. Individuals in this interest category would include those representing federal, state, local, foreign, or other government entities.

**General interest:** A member of a consensus body who, as an individual or organizational representative, has a general direct and material interest in the materials, products, systems, or services covered in the scope of the technical documents developed by AAMI and who does not fit into any of the preceding categories shall be classified as a General Interest stakeholder. Individuals in this category would include noncommercial academicians, noncommercial researchers, patient or consumer advocates, representatives of accrediting organizations, representatives of other organizations, etc.

**Other Interest:** A member who does not fit into any of the preceding interest categories but who still has an identifiable material interest in, or specialized knowledge of the materials, products, systems, or services covered in the scope of technical documents developed by AAMI in the delivery of healthcare shall be classified as an Other Interest stakeholder. The particular interest shall be declared and documented.

Please contact the staff person indicated for more information on how to join.

**AAMI AI, Artificial Intelligence Committee.** AAMI is seeking user, regulatory, and general interest members to participate in the development of a new standard, AAMI AI120 – *Bias Management for Machine Learning (ML) Systems*. Contact: Rachel Porter

**AAMI BE, Biological Evaluation Committee.** AAMI is seeking industry, user, general interest, and regulatory members to participate in the reaffirmations of AAMI/ISO 13022, *Medical products containing viable human cells — Application of risk management and requirements for processing practices*, AAMI/ISO 22442-3, *Medical devices utilizing animal tissues and their derivatives — Part 3: Validation of the elimination and/or inactivation of viruses and transmissible spongiform encephalopathy (TSE) agents*, as well as the expedited adoptions of ISO 22442-1:2020, *Medical devices utilizing animal...*

AAMI BE-WG2, Degradation aspects related to biological testing Working Group. AAMI is seeking industry, user, general interest, and regulatory members to participate in the expedited adoption of ISO 10993-9:2019, Biological evaluation of medical devices — Part 9: Framework for identification and quantification of potential degradation products and ISO/TS 37137-1:2021, Biological evaluation of absorbable medical devices — Part 1: General requirements Contact: Chenai Maguwah


AAMI BE-WG9, Effects on blood Working Group. AAMI is seeking industry, user, general interest, and regulatory members to participate in the reaffirmation of AAMI/ISO 10993-4, Biological evaluation of medical devices — Part 4: Selection of tests for interactions with blood. Contact: Chenai Maguwah

AAMI BE-WG12, Sample preparation and reference materials Working Group. AAMI is seeking industry, user, general interest, and regulatory members to participate in the expedited adoption of ISO 10993-12:2021, Biological evaluation of medical devices — Part 12: Sample preparation and reference materials. Contact: Chenai Maguwah

AAMI BG, Blood/Gas Exchange Device Committee. The committee is seeking user, industry, and general interest/regulator members to participate in the revision of ISO 7199, Cardiovascular implants and artificial organs — Blood-gas exchangers Blood-gas exchangers and to provide input on ISO TC150/SC2/WG4 activities Contact: Jill Zajac

AAMI BP, Blood Pressure Monitoring Committee. The committee is seeking regulatory, user and general interest members to participate in the reaffirmation and future revision of AAMI BP22-1994 (R2016), Blood pressure transducers. Contact: Ladan Bulookbashi

AAMI CI, Cochlear Implants Committee. The committee is seeking industry, regulatory, and general interest members to participate in the reaffirmation and future revision of AAMI CI86-2017, Cochlear implant systems—Requirements for safety, functional verification, labeling and reliability reporting. Contact: Ladan Bulookbashi

AAMI CN, Small Bore Connectors Committee. The committee is seeking user, regulatory, and general interest members to participate in the reaffirmation and future revision of AAMI/ISO 80369-5, Small-bore connectors for liquids and gases in healthcare applications — Part 5: Connectors for limb cuff inflation applications; and in the expedited adoption of AAMI/ISO 80369-7:2021, Small-bore connectors
for liquids and gases in healthcare applications — Part 7: Connectors for intravascular or hypodermic applications. Contact: Colleen Elliott

AAMI CP, Combination Products Committee. The committee is seeking user, industry, and general interest/regulator members to contribute to the development and review of various TIRs Contact: Jill Zajac

AAMI CV, Cardiac Valves Committee. The committee is seeking user, industry, and general interest/regulator members to participate in the US adoption of amendments to ISO 5840-1:2021, Cardiovascular implants—Cardiac valve prostheses—Part 1: General requirements; ISO 5840-2:2021, Cardiovascular implants—Cardiac valve prostheses—Part 2: Surgically implanted heart valve substitutes; and ISO 5840-3:2021, Cardiovascular implants—Cardiac valve prostheses—Part 3: Heart valve substitutes implanted by transcatheter techniques; and the revision of ISO 5910:2018, Cardiovascular implants and extracorporeal systems—Cardiac valve repair devices. Contact: Jill Zajac

AAMI DPC-10, Needles Working Group. The committee is seeking user, industry, and general interest/regulator members to contribute to the development of the U.S. positions towards the revisions of ISO 9626:2016, Stainless steel needle tubing for the manufacture of medical devices and ISO 7864:2016, Sterile hypodermic needles for single use. Contact: Sam Alameda

AAMI EQ-WG01, Healthcare Technology Management (HTM) Program Management working group. The working group is seeking general interest, industry, and regulatory members to participate in the revision of ANSI/AAMI EQ56:2013, Recommended practice for a medical equipment management program. Contact: Mike Miskell

AAMI EQ-WG04, Alternative Equipment Maintenance Working Group. The working group is seeking industry, regulatory and general interest members to participate in the development of AAMI EQ103/Ed.1, Alternative equipment maintenance in healthcare delivery organizations. Contact: Mike Miskell

AAMI EQ-WG05, HTM Education Programs Working Group. The working group is seeking industry, regulatory and general interest members to participate in the development of AAMI EQ110/Ed.1, Guidance for health care technology management education programs. Contact: Mike Miskell

AAMI HF, High Frequency Therapeutic Device Committee The working group is seeking regulatory, user and general interest members to participate in the adoption project for IEC 60601-2-2:2017/AMD1:2023, Amendment 1 - Medical electrical equipment - Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories. Contact: Ladan Bulookbashi
AAMI HIT-WG01, Health IT Risk Management Working Group. The working group is seeking industry, user, general interest, and regulatory members to participate in the development of AAMI HIT1000-3/Ed.1, Safety and effectiveness of health IT software and systems—Part 3: Application of risk management. Contact: Chenai Maguwah

AAMI HIT-WG02, Health IT Quality Systems Working Group. The working group is seeking industry, user, general interest, and regulatory members to participate in the development of AAMI HIT1000-2/Ed.1, Health IT software and systems—Part 2: Application of quality systems principles and practices. Contact: Chenai Maguwah

AAMI HIT-WG03, Health IT Usability Working Group. The working group is seeking industry, user, general interest, and regulatory members to participate in the development of AAMI HIT1000-4/Ed.1, Safety and effectiveness of health IT software and systems—Part 4: Application of human factors engineering. Contact: Chenai Maguwah

AAMI IP, Implantable Infusion Pumps Committee The working group is seeking industry, regulatory, user and general interest members to participate in the adoption project for ISO 14708-04:2022 (Ed.2), Implants for surgery—Active implantable medical devices—Part 4: Implantable infusion pumps. Contact: Ladan Bulookbashi

AAMI MC, Mechanical Circulatory Support Systems Committee. The committee is seeking user, industry, and general interest/regulator members to participate in the development of documents under ISO/TC150/SC2/WG2 including the early revision of ISO 14708-5:2020, Implants for surgery — Active implantable medical devices — Part 5: Circulatory support devices. Contact: Jill Zajac

AAMI NS-WG02, Implantable neurostimulator Working Group The working group is seeking regulatory, user and general interest members to participate in the reaffirmation of ANSI/AAMI/ISO 14708-3:2017, Implants for surgery—Active implantable medical devices—Part 3: Implantable neurostimulators. Contact: Ladan Bulookbashi

AAMI NS-WG03, Transcutaneous electrical stimulator Working Group The working group is seeking industry, regulatory, user and general interest members to participate in the reaffirmation and future revision of AAMI NS4-2013 (R2017), Transcutaneous electrical nerve stimulators. Contact: Ladan Bulookbashi

AAMI QM-WG02, General aspects from medical devices This working group is seeking user and general interest/regulatory members to participate in the national adoption of ISO 20417, Medical devices — Information to be supplied by the manufacturer. Contact: Amanda Benedict

AAMI RD, Renal Disease and Detoxification Committee. The committee is seeking industry, user, and general interest/regulator members to participate in the revision of the ISO 23500:2019, Preparation and quality management of fluids for haemodialysis and related therapies series standards: Part 1:
General requirements; Part 2: Water treatment equipment for haemodialysis applications and related therapies; Part 3, Water for haemodialysis and related therapies; Part 4: Concentrates for haemodialysis and related therapies; Part 5, Quality of dialysis fluids for haemodialysis and related therapies; and the revision of the ISO 8637, Extracorporeal systems for blood purification series standards: Part 1, Haemodialysers, haemodiafilters, haemofilters, and haemoconcentrators, Part 2: Extracorporeal blood circuit for haemodialysers, haemodiafilters, and haemofilters; and Part 3, Plasmafilters. Contact: Jill Zajac

AAMI SM-WG03, Interoperability Working Group. The group is seeking general interest, regulatory, and users. The committee is developing a new American National Standard, AAMI SW114 - Remote control of medical devices: Lung Ventilators and Intravenous (IV) Infusion Pumps. Contact: Chenai Maguwah

AAMI SM-WG05, Medical Device Security Working Group. The group is seeking general interest, regulatory, and users to participate in the future revisions of AAMI TIR57, Principles for medical device security—Risk Management and AAMI TIR97, Principles for medical device security—Postmarket risk management for device manufacturers. Contact: Chenai Maguwah

AAMI SM-WG06, Wireless Working Group. The group is seeking general interest, regulatory, and users to participate in the reaffirmation of AAMI TIR69:2017/(R)2020 – Risk management of radio-frequency wireless coexistence for medical devices and systems. Contact: Chenai Maguwah

AAMI SM-WG08, Software Defect Classification Working Group. The group is seeking general interest, regulatory, and users to participate in the reaffirmation of ANSI/AAMI SW91:2018 – Classification of defects in health software. Contact: Chenai Maguwah

AAMI SM-WG10, Cloud Computing Working Group. The group is seeking industry, user, general interest, and regulatory members to participate in the development of a new TIR, AAMI TIR115: Cloud – Guidance for the appropriate use of public cloud computing to enable medical device functions. Contact: Chenai Maguwah

AAMI SP, Sphygmomanometer Committee The committee is seeking regulatory, and general interest members to participate in the identical adoption project for ISO 81060-3:2022/Ed.1, Non-invasive sphygmomanometers — Part 3: Clinical investigation of continuous automated measurement type. Contact: Ladan Bulookbashi

AAMI ST-WG03, Industrial moist heat sterilization working group. The working group is seeking general interest, regulatory, and user members to contribute to development of a new TIR AAMI TIR116/Ed.1, *Guidance on designation of a medical product to a device product family and acceptance of a product into a product family by equivalence using moist heat sterilization*. Contact: Mike Miskell.


AAMI ST-WG08 – Microbiological methods working group. The working group is seeking general interest, regulatory, and user members to participate in the development of AAMI TIR52/Ed.2, *Environmental monitoring for terminally sterilized healthcare products*. Contact: Mike Miskell.

AAMI ST-WG09 – Aseptic processing working group. The working group is seeking general interest, regulatory, and user members to participate in the national adoption of ISO 13408-1:2023, Ed. 3, *Aseptic processing of health care products — Part 1: General requirements*. Contact: Mike Miskell.

AAMI ST-WG16 - Vaporized Hydrogen Peroxide Sterilization working group. The working group is seeking general interest, regulatory, and user members to participate in the national adoption of ISO 22441:2022, Ed. 1, *Sterilization of health care products -- Low temperature vaporized hydrogen peroxide -- Requirements for the development, validation and routine control of a sterilization process for medical devices*. Contact: Mike Miskell.


AAMI ST-WG43, Hospital steam sterilizer Working Group. The group is seeking user, general interest, and regulatory members to participate in the development of AAMI ST8/Ed.7, *Hospital steam sterilizers*. Contact: Mike Miskell.

AAMI ST-WG45, Processing of tattoo machines and accessories in healthcare settings Working Group. The group is seeking industry, user, general interest, and regulatory members to participate in the development of AAMI TIR117/Ed.1, *Guidance for processing tattoo machines and accessories in the healthcare setting*. Contact: Tommy Kim

AAMI ST-WG62, Hospital EO sterilizer Working Group. The group is seeking user, general interest, and regulatory members to participate in the development of AAMI ST24/Ed.4, *Automatic, general-purpose
ethylene oxide sterilizers and ethylene oxide sterilant sources intended for use in health care facilities. Contact: Tommy Kim

AAMI ST-WG86, Quality System for Device Processing Working Group. The group is seeking general interest and regulatory/government members to participate in the amendment of AAMI ST90, Processing of health care products—Quality management systems for processing in health care facilities. Contact: Tommy Kim

AAMI ST-WG91, Resistometer Working Group. The group is seeking user, general interest, and regulatory/government members to participate in the reaffirmation of AAMI/ISO 18472:2018, Sterilization of health care products—Biological and chemical indicators—Test equipment. Contact: Tommy Kim

AAMI TIB, Transfusion, Infusion, and Injection, and Blood Processing Equipment for Medical and Pharmaceutical Use Committee. The committee and its affiliated working groups are seeking user, industry, and general interest/regulator members to participate in developing the U.S. position towards documents under development in ISO/TC 76, Transfusion, infusion and injection, and blood processing equipment for medical and pharmaceutical use, and other projects. Contact: Sam Alameda

AAMI VP, Vascular Prostheses Committee. The committee is seeking user, industry, and general interest/regulator members to participate in the U.S. adoption of ISO 25539-2:2020, Cardiovascular implants—Endovascular devices—Part 2: Vascular stents; the revision of ISO 25539-3, Cardiovascular implants—Endovascular devices—Part 3: Vena cava filters. Contact: Jill Zajac

UPCOMING MEETINGS

AAMI Committees and U.S. TAGs

Open meetings of AAMI committees and U.S. Technical Advisory Groups (TAGs) are listed here and at the AAMI website (www.aami.org). Note: If you plan to attend a meeting, please send a brief note to the AAMI Standards Department at (standards@aami.org) indicating the name and date of the meeting so that staff can contact you in the event of a last-minute cancellation.

November 2023

AAMI ST-WG05, Sterilization Terminology Working Group (open meeting) 9 November 2023, 14:00h to 15:00h EST, virtual meeting. The working group will meet to discuss the US position for the systematic review of ISO 11139, Sterilization of health care products - Vocabulary of terms used in sterilization and related equipment and process standards. Contact: Mike Miskell.
AAMI ST-WG86, Quality System for Processing Medical Devices (open meeting) 3 November 2023, 15:00h to 16:00h EST, virtual meeting. The working group will meet to discuss the amendment of AAMI ST90, Processing of health care products—Quality management systems for processing in health care facilities. Contact: Tommy Kim

AAMI RD, Renal Disease and Detoxification Committee (open meeting) 6 November 2023, 10:00h to 16:00h EST, Plymouth Meeting, PA, hybrid meeting. The committee will meet to discuss the US position on ISO/FDIS 8637-2 Extracorporeal systems for blood purification — Part 2: Extracorporeal blood and fluid circuits for haemodialysers, haemodiafilters, haemofilters and haemoconcentrators Contact: Jill Zajac

AAMI PC-WG03, Pacemaker & ICD MRI Compatibility working group (open meeting) 16 November 2023, 10:00h to 11:30h EST, web meeting. The WG meets monthly to discuss revisions to ANSI/AAMI PC76:2021. Contact: Ladan Bulookbashi

December 2023

AAMI TIB-WG04, Elastomeric parts, components and packaging working group (open meeting) 13 December 2023, 10:00h to 11:00h EST, web meeting. The WG will meet virtually the 1st Wednesday of every month, from 10:00h to 11:00h EST, to discuss CR514, Guidance for Closed System Transfer Device Testing with Hazardous Drugs (CSTD). Contact: Sam Alameda

AAMI EQ-WG01, HTM Program management, AAMI EQ-WG04, Alternative equipment maintenance, and AAMI EQ-WG05, HTM Education programs working groups (open meetings) December 2023 (Dates and Times TBC), virtual meetings. Contact: Mike Miskell

INTERNATIONAL STANDARDS

Information on draft international standards under ballot can be found in ANSI Standards Action.

International Committee and Working Group Meetings

Call or email the indicated staff person at AAMI for more information about upcoming international standards meetings.

November 2023

ISO/TC 198/WG 13, Washer-disinfectors (closed meetings). Virtual, 3/17/27 November 2023, 08:00h to 11:00h EDT. Contact: Amanda Benedict
ISO/TC 150/SC6, **Active Implants**, and affiliated (J)WG meetings (closed meetings). AAMI Offices, Arlington, VA, 6-9 November 2023, 09:00h to 17:00h daily local time. Contact: Ladan Bulookbashi

ISO/TC 121/SC2, Airways and related equipment and ISO/TC 121/SC6, Medical gas supply systems (closed meetings). Dublin, Ireland, 13-17 November 2023, 09:00h to 17:00h daily local time. Contact: Colleen Elliott

ISO/TC 198/WG 12, **Instructions for reprocessing of resterilizable medical devices** (closed meeting). London, UK, 15 November 2023, 10:30h to 13:30h GMT. Contact: Amanda Benedict

ISO/TC 150/SC2/WG3 **Vascular protheses**, WG meeting (closed meetings). Virtual, 30th November 2023, 10:00h to 12:00h EDT time. Contact: Jill Zajac

**December 2023**

ISO/TC 210, **Quality management and corresponding general aspects for products with a health purpose including medical devices** and affiliated (J)WG meetings (closed meetings). Paris, France, 5-8 and 11-15 December 2023, 09:00h to 17:00h daily local time. Contact: Amanda Benedict

**February 2024**

ISO/TC 121/SC3, **Respiratory devices and related equipment used for patient care and JWG12** (closed meetings). Sydney, Australia, 5 - 9 February 2024. Contact: Colleen Elliott