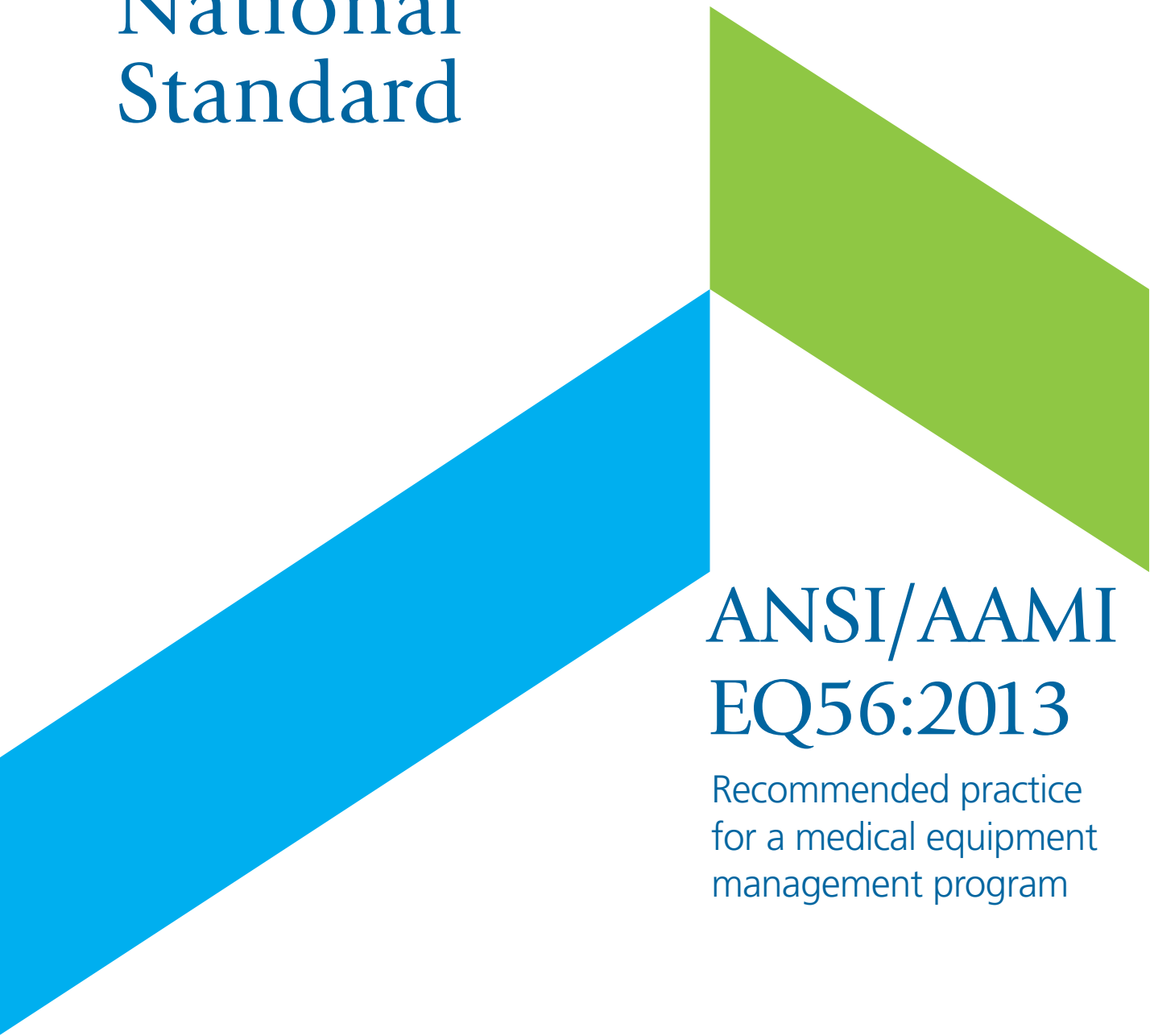


American National Standard



ANSI/AAMI EQ56:2013

Recommended practice
for a medical equipment
management program

Objectives and uses of AAMI standards and recommended practices

It is most important that the objectives and potential uses of an AAMI product standard or recommended practice are clearly understood. The objectives of AAMI's technical development program derive from AAMI's overall mission: the advancement of medical instrumentation. Essential to such advancement are (1) a continued increase in the safe and effective application of current technologies to patient care, and (2) the encouragement of new technologies. It is AAMI's view that standards and recommended practices can contribute significantly to the advancement of medical instrumentation, provided that they are drafted with attention to these objectives and provided that arbitrary and restrictive uses are avoided.

A voluntary *standard* for a *medical device* recommends to the manufacturer the information that should be provided with or on the product, basic safety and performance criteria that should be considered in qualifying the device for clinical use, and the measurement techniques that can be used to determine whether the device conforms with the safety and performance criteria and/or to compare the performance characteristics of different products. Some standards emphasize the information that should be provided with the device, including performance characteristics, instructions for use, warnings and precautions, and other data considered important in ensuring the safe and effective use of the device in the clinical environment. Recommending the disclosure of performance characteristics often necessitates the development of specialized test methods to facilitate uniformity in reporting; reaching consensus on these tests can represent a considerable part of committee work. When a drafting committee determines that clinical concerns warrant the establishment of *minimum* safety and performance criteria, referee tests must be provided and the reasons for establishing the criteria must be documented in the rationale.

A *recommended practice* provides guidelines for the use, care, and/or processing of a medical device or system. A recommended practice does not address device performance *per se*, but rather procedures and practices that will help ensure that a device is used safely and effectively and that its performance will be maintained.

Although a device standard is primarily directed to the manufacturer, it may also be of value to the potential purchaser or user of the device as a frame of reference for device evaluation. Similarly, even though a recommended practice is usually oriented towards healthcare professionals, it may be useful to the manufacturer in better understanding the environment in which a medical device will be used. Also, some recommended practices, while not addressing device performance criteria, provide guidelines to industrial personnel on such subjects as sterilization processing, methods of collecting data to establish safety and efficacy, human engineering, and other processing or evaluation techniques; such guidelines may be useful to health care professionals in understanding industrial practices.

In determining whether an AAMI standard or recommended practice is relevant to the specific needs of a potential user of the document, several important concepts must be recognized:

All AAMI standards and recommended practices are *voluntary* (unless, of course, they are adopted by government regulatory or procurement authorities). The application of a standard or recommended practice is solely within the discretion and professional judgment of the user of the document.

Each AAMI standard or recommended practice reflects the collective expertise of a committee of health care professionals and industrial representatives, whose work has been reviewed nationally (and sometimes internationally). As such, the consensus recommendations embodied in a standard or recommended practice are intended to respond to clinical needs and, ultimately, to help ensure patient safety. A standard or recommended practice is limited, however, in the sense that it responds generally to perceived risks and conditions that may not always be relevant to specific situations. A standard or recommended practice is an important *reference* in responsible decision-making, but it should never *replace* responsible decision-making.

Despite periodic review and revision (at least once every five years), a standard or recommended practice is necessarily a static document applied to a dynamic technology. Therefore, a standards user must carefully review the reasons why the document was initially developed and the specific rationale for each of its provisions. This review will reveal whether the document remains relevant to the specific needs of the user.

Particular care should be taken in applying a product standard to existing devices and equipment, and in applying a recommended practice to current procedures and practices. While observed or potential risks with existing equipment typically form the basis for the safety and performance criteria defined in a standard, professional judgment must be used in applying these criteria to existing equipment. No single source of information will serve to identify a particular product as "unsafe". A voluntary standard can be used as one resource, but the ultimate decision as to product safety and efficacy must take into account the specifics of its utilization and, of course, cost-benefit considerations. Similarly, a recommended practice should be analyzed in the context of the specific needs and resources of the individual institution or firm. Again, the rationale accompanying each AAMI standard and recommended practice is an excellent guide to the reasoning and data underlying its provision.

In summary, a standard or recommended practice is truly useful only when it is used in conjunction with other sources of information and policy guidance and in the context of professional experience and judgment.

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Requests for interpretations of AAMI standards and recommended practices must be made in writing, to the AAMI Vice President, Standards Policy and Programs. An official interpretation must be approved by letter ballot of the originating committee and subsequently reviewed and approved by the AAMI Standards Board. The interpretation will become official and representation of the Association only upon exhaustion of any appeals and upon publication of notice of interpretation in the "Standards Monitor" section of the *AAMI News*. The Association for the Advancement of Medical Instrumentation disclaims responsibility for any characterization or explanation of a standard or recommended practice which has not been developed and communicated in accordance with this procedure and which is not published, by appropriate notice, as an *official interpretation* in the *AAMI News*.

Recommended practice for a medical equipment management program

Developed by
Association for the Advancement of Medical Instrumentation

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Abstract: This recommended practice specifies minimum criteria for a management program designed to minimize certain risks associated with equipment that is used during the routine care of patients in a health care organization. The recommended practice addresses the structure of the program, documentation requirements, staffing, and resources allocated to those responsible for maintaining medical equipment.

Keywords: accreditation, maintenance, medical equipment

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Contents

	Page
Glossary of equivalent standards.....	v
Committee representation.....	vi
Foreword.....	vii
Introduction.....	viii
1 Scope.....	1
1.1 General.....	1
1.2 Inclusions.....	1
2 Normative reference.....	2
3 Definitions.....	3
4 Leadership.....	4
4.1 Policies and procedures.....	4
4.2 Communications and reporting.....	4
4.2.1 General considerations.....	4
4.2.2 Communication between the service provider and the health care organization.....	4
4.3 Management.....	5
4.3.1 Customers.....	5
4.3.2 Staff.....	6
4.4 Performance improvement.....	7
4.5 Emergency management.....	7
5 Inventory.....	8
5.1 Evaluation and selection.....	8
5.2 Acquisition.....	8
5.2.1 Negotiable items.....	8
5.2.2 Acceptance testing.....	9
5.3 Non-hospital owned equipment.....	10
5.4 Record keeping.....	10
5.4.1 General considerations.....	10
5.4.2 Data to record.....	10
5.4.3 Inventory inclusion.....	12
5.4.4 Inventory accuracy.....	12
5.4.5 Database.....	13
6 Equipment Safety.....	14
6.1 User training.....	14
6.1.1 Operation of equipment.....	14
6.1.2 Responding to equipment problems.....	14
6.2 Recalls and alerts.....	14
6.3 Incidents.....	14
6.3.1 Investigating.....	14
6.3.2 Reporting.....	15
6.4 Infection control.....	15
7 Inspection and planned maintenance program.....	16
7.1 Inspection procedures.....	16
7.1.1 General considerations.....	16
7.1.2 Documentation.....	16
7.2 Inspection schedules.....	16
7.3 Record Retention.....	17

8	Repair Program	18
8.1	Repair procedures	18
8.1.1	General considerations	18
8.1.2	Alternative service methods	19
8.2	Service contracts	19
8.2.1	General considerations	19
8.2.2	Negotiating	19
8.2.3	Monitoring.....	19
8.3	Backup equipment.....	19
8.4	Removal from service.....	19
9	Resources.....	21
9.1	Staff	21
9.1.1	Staffing levels	21
9.1.2	Staff qualifications	21
9.1.3	Orientation.....	22
9.1.4	Ongoing education and training	22
9.1.5	Documentation	23
9.2	Budget	23
9.3	Space	23
9.4	Test equipment, tools, and supplies	24

Annexes

A	Computerized maintenance management systems.....	25
B	Benchmarking.....	26
C	Sample statistical models for evaluating inventory accuracy.....	27
D	Medical equipment management standards crosswalk	28
	Bibliography	35