

AS/NZS 3551:2012
(Incorporating Amendment Nos 1 and 2)

AS/NZS 3551:2012

Australian/New Zealand Standard™

**Management programs for medical
equipment**



AS/NZS 3551:2012

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee HE-003, Medical Electrical Equipment. It was approved on behalf of the Council of Standards Australia on 19 July 2012 and on behalf of the Council of Standards New Zealand on 10 July 2012.

This Standard was published on 31 October 2012.

The following are represented on Committee HE-003:

Australasian College of Physical Scientists and Engineers In Medicine
Australasian Society for Ultrasound in Medicine
Australian and New Zealand College of Anaesthetists
Australian Dental Association
Australian Radiation Protection and Nuclear Safety Agency
Australian Society of Anaesthetists
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This Standard was issued in draft form for comment as DR 10023.

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Originated in Australia as AS 3551—1988.
Jointly revised and designated as AS/NZS 3551:1998.
Previous edition 2004.
Fourth edition 2012.
Reissued incorporating Amendment No. 1 (October 2013).
Reissued incorporating Amendment No. 2 (September 2016).

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Jointly published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 and by Standards New Zealand, PO Box 1473, Wellington 6011.

ISBN 978 1 74342 277 9

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee HE-003, Medical Electrical Equipment, to supersede AS/NZS 3551:2004.

This Standard incorporates Amendment No. 1 (October 2013) and Amendment No. 2 (September 2016). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The principal differences between this edition and the previous edition are as follows:

- (a) Principles from quality management and risk management standards have been incorporated throughout the document.
- (b) Introduction of the requirements for hire and loan equipment.
- (c) Introduction of the term ‘performance verification’ which encompasses physical, functional, and electrical testing.
- (d) Change in earth leakage current tests to align with IEC 60601-1, Ed. 3.0.
- (e) Addition of touch current testing to align with IEC 60601-1, Ed. 3.0.
- (f) Addition of the medical electrical systems section (Section 7) to align with IEC 60601-1, Ed. 3.0.
- (g) Management of medical equipment configurations during medical equipment maintenance.
- (h) Introduction of test requirements for non-medical equipment used in a patient environment.
- (i) Introduction of terms ‘service entity’ and ‘responsible organization’.
- (j) Introduction of requirements for management of medical equipment used in the home.

The Standard was prepared for users of medical equipment who need to—

- (i) ensure that medical equipment used in the responsible organization perform as intended by the manufacturer and is safe for clinical use;
- (ii) ensure that the medical equipment complies with the essential principles of safety and performance;
- (iii) inspect and test new medical equipment, before commissioning, in order to ensure against manufacturing defects; and
- (iv) perform maintenance, routine inspections or tests on medical equipment during its service life, in order to ensure its continued safety and performance.

This Standard is intended to provide a practical approach and application of the testing philosophies of AS/NZS 3200.1.0 and associated Part 2 Standards, along with other essential performance verification principles, to ensure that medical equipment, in clinical use in the responsible organization, performs as intended by the manufacturer and does not compromise the safety of the patient, the operator or the environment.

Recommendations linking the type of medical procedures with the appropriate type and class of medical electrical equipment and the type of protective facilities in the reticulated mains wiring are not covered in this Standard but are published as AS/NZS 2500, *Guide to safe use of electricity in patient care*.

Design requirements for type examination and approval of medical electrical equipment are not considered in this Standard but are set out in AS/NZS 3200.1.0 and Collateral Standards, and the relevant Part 2 Standards in the AS/NZS 3200 series. In this regard, it is important to note the following:

- (A) The test requirements of the AS/NZS 3200 Part 2 Standards can be applied to a sample of the medical equipment to verify that the basic design and manufacture complies with these Standards before the medical equipment is introduced to the market.
- (B) Many of the tests in the AS/NZS 3200 Part 2 Standards are too extensive to be applied on a routine basis to each item of equipment delivered to a hospital or healthcare facility. Some inspection and testing requirements of the AS/NZS 3200 Part 2 Standards are potentially destructive of the medical equipment or its components. Some of those type tests, if applied to each item of equipment purchased, may render some or all of them inoperative or unsafe for use.
- (C) Few organizations and healthcare facilities have the resources to carry out type testing to the full requirements of the AS/NZS 3200 Part 2 Standards.
- (D) For these reasons, it is not appropriate, nor would it be cost effective, to carry out all the inspection and testing required in the AS/NZS 3200 Part 2 Standards on every item of equipment to be commissioned.
- (E) The AS/NZS 3200 Part 2 Standards modify the Parent Standard and are totally dependent on AS/NZS 3200.1.0 for the bulk of requirements.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard.

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