

AS/NZS IEC 61331.3:2022
IEC 61331-3:2014



Australian/New Zealand Standard™

Protective devices against diagnostic medical X-radiation

Part 3: Protective clothing, eyewear and protective patient shields



AS/NZS IEC 61331.3:2022

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 8 May 2022 and by the New Zealand Standards Approval Board on 1 June 2022.

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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee HE-003, Medical Electrical Equipment, to supersede AS/NZS 4543.3:2000, *Protective devices against diagnostic medical X-radiation, Part 3: Protective clothing and protective devices for gonads*.

The objective of this document is to specify requirements for protective devices, such as protective clothing and eyewear for the protection of persons against X-radiation up to 150 kV, during radiological examinations and interventional procedures.

NOTE Protective devices are not intended by themselves to provide complete protection of persons but are used to reduce the dose to persons where other methods of protection against X-radiation are insufficient or not applicable.

This document deals with the following:

- (a) General requirements on the accompanying documents, on design, and on materials used.
- (b) Sizing, particular design features, minimum attenuation properties of materials, marking and standardized forms of statements of compliance with this standard.

It covers protective clothing mainly for the protection of the operator, including the following:

- (i) Protective aprons.
- (ii) Thyroid collars.
- (iii) Protective gloves.
- (iv) Protective mittens.
- (v) Protective eyewear.

The document also covers protective devices for the protection of the patient, including the following:

- (A) Protective gonad aprons.
- (B) Scrotum shields.
- (C) Ovary shields.
- (D) Shadow shields.
- (E) Protective aprons for dental use.

The latter group of protective devices is intended to be used during radiological examinations to minimize the effects of irradiation on the reproductive organs, particularly with regard to genetic damage.

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