

BUREAU OF INDIAN STANDARDS

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Draft Indian Standard

**Radionuclide imaging devices–
Characteristics and test conditions–
Part 1: Positron emission tomographs**

Last date of receipt of comments is 15-05-2010

**Ionizing Radiation Imaging and Radiotherapy Equipments Sectional Committee,
MHD 18**

NATIONAL FOREWORD

(Formal clause of adoption will be added later)

This draft Indian Standard is identical with IEC 61675-1:1998 ‘Radionuclide imaging devices-Characteristics and test conditions-Part 1: Positron emission tomographs ’issued by the International Electrotechnical Commission (IEC).

This Standard also includes Amendment 1 (2008) issued by the International Electrotechnical Commission (IEC) . Further developments of positron emission tomographs allow most of the tomographs to be operated in fully 3D acquisition mode. To comply with this trend, amendment 1 was introduced which describes the test conditions in accordance with the acquisition characteristic. It is the intention to simulate 3D imaging without introducing new phantoms or new acquisition or processing protocols. The test does simulate more realistically count rate characteristics for whole body imaging. Measurement of scatter fraction is not intended with this test.

Other parts of this standard are:

- (i) Part 2: Single photon emission computed tomographs
- (ii) Part 3: Gamma camera based wholebody imaging systems

The text of this standard has been approved as suitable for publication as an Indian standard. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’; and
- b) Comma (,) has been used as the decimal marker while in Indian Standards, the current practice is to use a point (.) as a decimal marker.

In this adopted Indian Standard, reference appears to the following International Standard for which Indian Standards also exist. The corresponding Indian Standard which is to be substituted in its respective place is listed below along with its degree of equivalence for the edition indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
IEC 60788:1984 Medical Electrical Equipment—Glossary of defined terms	IS 13807:1994 Medical Radiology (Terminology)	Identical
