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GB 15213-94

Medical Electron Accelerators – Functional Performance Characteristics and Test Methods

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National Standard of the People's Republic of China

Medical Electron Accelerators – Functional Performance

Characteristics and Test Methods

GB 15213-94

This standard equivalently adopts the international standard IEC 976 (1989) *Medical Electron Accelerators - Functional Performance Characteristics* and IEC977 (1989) *Medical electron accelerators in the range 1 MeV to 50 MeV -Guidelines for functional performance characteristics*.

1 Subject content and scope of application

This standard specifies the performance index and test methods of medical electron accelerators.

This standard applies to medical electron accelerators used for therapy purpose in human medical practice.

This standard applies to medical electron accelerators which can generate X-radiation and electron radiation; its nominal energies is 1~50MeV, maximum dose rates is 0.001Gy ~ 1Gy/s at 1m from the radiation source, normal treatment distance (NTD) is 50cm ~ 200cm.

This standard applies to the medical electron accelerators equipped with isocentric gantry, and the performance characteristics and test methods for non-isocentric equipment may be corrected properly.

Unless otherwise specified in the accompanying documents, this standard applies to the equipment installed and used in the environment under the following conditions:

- a. Temperature 15~35°C
- b. Relative humidity 30%~75%
- c. Atmospheric pressure 7×10⁴~11×10⁴Pa (700~1100mbar)

The transportation and storage environmental conditions must be stated in the

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Additional Information

This standard was proposed by State Pharmaceutical Administration and shall be under the jurisdiction of Beijing Medical Equipment Institute.

This standard was drafted by Beijing Medical Equipment Institute.

Chief drafting staffs of this standard are Zhang Zhaoyuan, Wu Wei, and Wang Xiaoyun.

Since the implementation date of this Standard, ZB F91 002-88 "Medical Electron Accelerators-Functional Performance Characteristics and Test Methods" issued by State

Pharmaceutical Administration shall be abolished.

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