

ICS 11.040.60

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**PROFESSIONAL STANDARD OF THE PEOPLE'S  
REPUBLIC OF CHINA**

**中华人民共和国医药行业标准**

YY/T 0889-2013

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**Intensity-modulated radiation treatment  
planning system—Functional performance  
characteristics and test methods  
调强放射治疗计划系统性能和试验方法**

Issued on October 21, 2013

Implemented on October 1, 2014

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Issued by China Food and Drug Administration

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## **Foreword**

This Standard is drafted according to the rules specified in GB/T 1.1-2009

Please note that some content of the Document may involve any patent. The issuing authority of the Document will not undertake the responsibility of identifying these patents.

The Standard is proposed by China Food and Drug Administration.

The Standard is under the jurisdiction of National Standardization Technical Committee of Medical Appliances Radiotherapy and Technical Committee of Nuclear Medicine and Radiation Dosimetry Equipment (SAC/TC10/SC3).

The Standard is mainly drafted by: Beijing Institute of Medical Device Testing, Cancer Hospital of Chinese Academy of Medical Sciences, Nuclear Science and Technology Research Institute of Sichuan University and Beijing Cancer Hospital.

The main drafters of the Standard: Jiao Chunying, Zhang Xin, Dai Jianrong, Li Minghui, Gou Chengjun and Wu Hao.

# **Intensity-modulated radiation treatment planning system—Functional performance characteristics and test methods**

## **1 Scope**

This standard specifies the terms, definitions, performance requirements and test methods of intensity-modulated radiation treatment planning system.

This standard is applicable to intensity-modulated radiation treatment planning system with a high-energy X-beam dose calculating function (hereinafter referred to as the System). The System is used for designing intensity-modulated radiation treatment plans for patients.

If the system has plan design features of other radiotherapy techniques besides intensity-modulated radiation treatment, it has to meet appropriate standards.

## **2 Normative references**

The articles contained in the following documents have become this document when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this document.

GB 9706.5 Medical electrical equipment - Part 2-1: Particular requirements for the safety of electron accelerators in the range 1 MeV to 50 MeV

GB 15213 Medical electron accelerators—Functional performance characteristics and test methods

GB/T 17857 Medical radiology--Terminology (Equipment for radiotherapy , nuclear medicine and radiation dosimetry)

YY 0637 Medical electrical equipment—Requirements for the safety of radiotherapy treatment planning systems

## **3 Terms and Definitions**

Those defined in GB 9706.5, GB 15213, GB/T 17857, YY 0637 and the following terms and definitions apply to this Standard.

### **3.1**

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