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JY

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

JY/T 0160-2011

Replacing JY 160-1984

**Heart Anatomy Model
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009 "Guidelines for Standardization Work_Part 1. Structure and Preparation of Standards" this standard replaces JY 160-1984 "Technical Specifications for Enlarged Heart Anatomy Model". In addition to editorial changes, the main technical changes are as follows.

- Added the content of the natural big heart model (85mm);
- Appearance size has increased allowable tolerances;

- Added the requirement that the main parts of the model should be affixed with name or number tags;
- Specifies the materials that should and should not be used for the model;
- Specify the limit of heavy metal content in the paint of the model.

Please note that some elements of this standard may involve patents. The issuer of this standard is not responsible for identifying these patents.

This standard was proposed by the National Technical Committee for Standardization of Teaching Instruments (SAC/TC125).

This standard is under the jurisdiction of the National Technical Committee for Standardization of Teaching Instruments (SAC/TC125).

1 Scope

This standard specifies the nomenclature, requirements, test methods, inspection rules and signs, packaging, transportation, and storage of cardiac anatomical models.

This standard applies to the anatomical model of heart used in biology teaching in middle schools.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB 21746-2008 General requirements for safety requirements of teaching instruments and equipment
JY 0001-2003 General quality requirements for teaching instruments and equipment
products JY 0002 Inspection rules for teaching instruments and equipment
products JY 0026-1991 teaching instrument and teaching equipment product model naming method
JY 0213-1994 Teaching mechanical, thermal instrument transportation, storage environmental conditions and test methods

3.1 Naming rules

The model name of the product is JY 0026-1991.

3.2 Nomenclature

The anatomical model of the heart is named.

SM - XJP - CR - 220/85 Product outline length, 220mm/85mm Product Feature Code, Adult Product name Pinyin prefix, "Heart Anatomy" Product model classification code, biological

model Model example.

SM-XJP-CR-220/85 represents a biological model, an anatomical heart model, and an adult. The overall length is 220mm/85mm.

4.1 Use environmental conditions

Temperature. -10 °C ~ 40 °C, relative humidity. not more than 90%.

4.2.1 General requirements

4.2.1.1

The product is an adult heart model in the diastolic state, from the apex to the aortic root, 220mm ± 20mm/85mm ± 5mm. Live normally the management position is placed on the stand or the base.

4.2.1.2

Display the external shape of the heart and related large blood vessels.

4.2.1.2.1

The shape of the heart is like an inverted, slightly flat front and back cone, with the apex of the heart facing the front left and bottom, and the bottom of the heart facing the right back and top.

4.2.1.2.2

Show the coronary sulcus, anterior interventricular sulcus, posterior interventricular sulcus, posterior ventricular sulcus and apical notch, and the blood vessels of the heart-left and right coronary arteries and coronary sinus and its branches.

4.2.1.2.3

The ascending aorta and the convex side of the aortic arch emanating from right to left of the head and arm trunk, left common carotid artery, and left subclavian artery.

4.2.1.2.4

shows the trunk of the pulmonary arteries and the ends of the left and right pulmonary arteries and left and right pulmonary veins.

4.2.1.2.5

shows arterial ligaments.

4.2.1.3

Dissection of the atrium and ventricle shows the structure of the heart cavity.

4.2.1.4

The morphological structure and color of each part shall be correct, natural and full of realism.

4.2.2 Specific requirements

4.2.2.1

Right atrium. the superior and inferior vena cava, right atrioventricular and coronary sinus orifices, as well as the inferior vena cava valves, coronary sinus valves, and oval fossa are shown.

The comb muscles and ridges of the right atrial appendage are shown.

4.2.2.2

Right ventricle. showing the superior ventricular condyle, arterial cone, tricuspid valve, chordae, papillary muscle, scallop, septum scallop, and pulmonary artery port and pulmonary motion Veins.

4.2.2.3

Left atrium. four openings of the left and right pulmonary veins, the left atrioventricular opening, and the comb muscles of the left atrial appendage.

4.2.2.4

Left ventricle. showing the mitral valve, chordae, papillary muscles, meat column, and aortic port and aortic valve.

4.2.2.5

The mitral valve has two leaflets, one on the medial side and the other on the posterolateral side; the tricuspid valve has three valve leaflets, which are located anteriorly, posteriorly and anteriorly.

Medial; three semilunar valves of the pulmonary artery, one anterior and two posterior; three semilunar valves of the aorta, two anterior and one posterior.

4.2.2.6 220mm cardiac anatomy model, the aortic root should show the aortic sinus, among which the left and right sinus arteries should show the left and right Coronary artery opening.

4.2.2.7

The position and structural characteristics of atrial septum and ventricular septum (membrane and muscle) should be correctly displayed.

4.2.2.8

Show the structure of the heart wall. The muscle fibers on the surface of the myocardium