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JJG

NATIONAL METROLOGY VERIFICATION REGULATION OF THE PEOPLE'S REPUBLIC OF CHINA

JJG 1163-2019

Multifunction Patient Monitoring Instruments

多参数监护仪

(English Translation)

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Appendix A. Original Records of Monitor Verification (11)

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Introduction

The preparation of this regulation is based on JJF1002-2010 "Rules for Compiling National Measurement Verification Regulations", JJF1001-2011 "General Measurement Terms and Definitions" and JJF1059.1-2012 "Measurement Uncertainty Evaluation and Expression" as the basis. this the procedure mainly refers to JJG 760-2003 "ECG Monitor" and JJG 692-2010 "Non-invasive automatic blood pressure measurement" meter".

This regulation is issued for the first time.

Verification Regulations of Multi-parameter Monitor

1 Scope

This regulation is applicable to the first verification, subsequent verification and in-use inspection of multi-parameter monitors.

This procedure covers the testing of four major parameters. electrocardiogram, non-invasive blood pressure, pulse oximetry, and end-carbon dioxide.

Any monitor measurement verification with all or part of the monitoring function shall be carried out in accordance with this regulation.

2 Reference documents this verification procedure refers to the following documents.

JJG 692 Noninvasive Automatic Blood Pressure Monitor JJG 760-2003 ECG monitor YY0601-2009 Special requirements for basic safety and main performance of medical

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electrical equipment respiratory gas monitor for dated references, only the dated versions are applicable to this Regulation; for those without dates the latest version (including all amendments) is applicable to this regulation.

3 Terms and units of measurement

3.1 Multifunction patient monitoringinstrument Instruments that can monitor and record various basic vital signs parameters of patients in real time, generally including ECG, Non-invasive blood pressure, pulse oximetry and end-tidal carbon dioxide etc. or more parameters.

3.2 ECG electrocardio in every cardiac cycle of the heart, the cardiac bioelectric potential caused by the successive excitation of the pacing point, atrium, and ventricle. heart Unit of electrical voltage. millivolt, symbol. mV; unit of heart rate. beats/min.

3.3 Sinus rhythm Heart rhythmic activity caused by electrical impulses from the sinus node of the heart. Sinus node is a heart made of special cells the small nodules on the viscera are the pacing points of the heart. The heart beats every time an impulse occurs in the sinoatrial node.

3.4 Amplitude-frequencycharacteristic the multi-parameter monitor measures the relationship between the voltage magnification and frequency of the human ECG signal. For measurement and display the electrocardiographic signal of the human body, the multi-parameter monitor generally has an amplifier circuit, and the amplifier circuit amplifies signals of different frequencies Capabilities may vary.

3.5 Blood pressure

The side pressure on the blood vessel wall when blood flows in the blood vessel. Blood pressure unit. kPa (or mm Hg), symbol no.. kPa (or mmHg), 1kPa = 7.5mmHg.

3.6 Static pressure

Pressure that does not change with time or changes slowly with time. Static pressure reflects the pressure after inflation and stabilization the internal pressure sensor of the multi-parameter monitor measures performance parameters.

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