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Calibration Specification for Electromyographs and Evoked Response Equipment

肌电及诱发反应设备校准规范

(English Translation)

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Appendix C Examples of Evaluation of Calibration Uncertainty for Major Items (12)

Introduction

This specification is based on JJF 1071-2010 "Rules for the Compilation of National Metrology and Calibration Specifications" and JJF 1059.1-2012 "Evaluation and Expression of Measurement Uncertainty" was compiled.

The main technical basis of this specification is YY0896-2013 "Medical Electrical Equipment Part 2: Electromyography and Induced Special requirements for the safety of reaction equipment.

This specification is released for the first time.

Calibration specification for electromyography and evoked response equipment

1 Scope

EMG and evoked response equipment includes EMG equipment and evoked response equipment. This specification applies to EMG and evoked response equipment.

The calibration of the equipment (only for the electrical stimulation part).

2 Reference documents the following documents are cited in this specification.

YY0896-2013 Medical electrical equipment Part 2: Special requirements for the safety of electromyography and evoked response equipment for dated reference documents, only the dated version applies to this specification; for all undated references the latest version (including all amendments) is applicable to this specification.

3 Terms and units of measurement the following terms and definitions defined in YY0896-2013 are applicable to this specification.

3.1 Electromyograph [YY0896-2013,2.1.101] Medical electrical equipment used to detect and analyze bioelectrical potentials related to nerve and muscle activity.

The activity may be spontaneous, or it may be stimulated by electricity or other stimuli.

3.2 Evoked response equipment [YY0896-2013,2.1.102] Medical electrical equipment used to detect and analyze the bioelectric potential generated by induced stimuli. The stimulus

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may be electric shock or touch.

Touch, hearing, sight, smell, etc.

3.3 Electricalstimulator electricalstimulator[YY0896-2013,2.1.103] Device parts that conduct current by using electrodes that are in direct contact with the patient, used to stimulate biopotential or other reaction.

4 overview

Electromyography equipment and evoked response equipment use electrodes to obtain the muscle telecommunication induced by the body itself or the stimulator.

No., a device that displays after being amplified by a signal amplifier and processed by an operational controller. Clinically, it is mainly used to treat God the system and muscle function are evaluated to determine the location, nature and extent of related diseases. Electrical stimulators and signals the amplifier is its core component. The structural block diagram is shown as in Fig. 1.

Figure 1 Block diagram of electromyography equipment and evoked response equipment

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