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

YY/T 1873-2023

**Anaesthetic and respiratory equipment - Nitrous oxide
inhalation sedation and analgesia apparatus**

麻醉和呼吸设备 笑气吸入镇静镇痛装置

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents" Drafting. Please note that some content in this document may be subject to patents. The publisher of this document assumes no responsibility for identifying patents. This document is proposed by the National Medical Products Administration. This document is under the jurisdiction of the National Technical Committee on Standardization of Anesthesia and Respiratory Equipment (SAC/TC 116). This document was drafted by: Nanjing Supstar Medical Equipment Co., Ltd., Shanghai Medical Device Inspection and Research Institute, National Drug Supervision and Administration Medical Device Technical Evaluation Center of the State Council. The main drafters of this document. Meng Baolin, Yang Xiaoqing, Zhong Youjin, Wang Wei, Tang Xuefeng, and Wang Wei. Anesthesia and respiratory equipment Laughing gas inhalation sedation and analgesia device

1 Scope

YY/T 1873 covers the apparatus that delivers nitrous oxide and oxygen for conscious sedation and analgesia, the equipment used in dentistry, minor procedures and labour wards. It specifies the requirements such a device has to meet and the test methods that verify them, covering the gas mixing and delivery system, the limits that prevent a hypoxic mixture being given, the alarms and the scavenging that protects the staff working in the room. The safety case rests on interlocks: the device must make it difficult to deliver too much nitrous oxide and impossible to deliver too little oxygen. Nitrous oxide sedation is expanding quickly in Chinese dental practice, which is what makes a dedicated standard

necessary. For a manufacturer, this is the product-specific text a Chinese registration is assessed against.

This document specifies the basic safety and essential performance of laughing gas inhalation sedation and analgesic devices used in combination with accessories. This document applies to laughing gas inhalation sedation and analgesia devices and accessories used in combination (such as masks, breathing tubes, etc.). Such devices are expected to cause The patient's respiratory system delivers nitrous oxide and oxygen mixed gases for sedation and analgesia, and the concentration of the nitrous oxide and oxygen mixed gases it delivers can be adjusted. This document does not apply to anesthesia machines that use laughing gas for inhalation sedation and analgesia, and laughing gas and oxygen premixed gas inhalation sedation and analgesia devices.

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document. document.

GB/T 1962.2-2001 6% (Luer) conical connectors for syringes, injection needles and other medical devices Part