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Copper-bearing contraceptive intrauterine devices - Requirements and tests (ISO 7439:2023)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

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Copper-bearing contraceptive intrauterine devices - Requirements and tests (ISO 7439:2023)

Dispositifs contraceptifs intra-utérins contenant du cuivre - Exigences et essais (ISO 7439:2023)

Kupferhaltige Intrauterinpessare zur Empfängnisverhütung - Anforderungen und Prüfungen (ISO 7439:2023)

This European Standard was approved by CEN on 22 January 2023.

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EN ISO 7439:2023 (E)

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European foreword

This document (EN ISO 7439:2023) has been prepared by Technical Committee ISO/TC 157 "Non-systemic contraceptives and STI barrier prophylactics" in collaboration with Technical Committee CEN/TC 285 "Non-active surgical implants" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2023, and conflicting national standards shall be withdrawn at the latest by October 2023.

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This document supersedes EN ISO 7439:2015.

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Endorsement notice

The text of ISO 7439:2023 has been approved by CEN as EN ISO 7439:2023 without any modification.

INTERNATIONAL STANDARD

ISO 7439

Fourth edition 2023-04

Copper-bearing contraceptive intrauterine devices — Requirements and tests

Dispositifs contraceptifs intra-utérins contenant du cuivre — Exigences et essais





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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 157, *Non-systemic contraceptives and STI barrier prophylactics*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 285, *Non-active surgical implants*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fourth edition cancels and replaces the third edition (ISO 7439:2015), which has been technically revised.

The main changes are as follows:

- the subclause on clinical performance has been revised (see <u>5.2</u>);
- the movable collar has been added in the subclause on insertion instrument (see 6.3.4);
- requirements for packaging integrity have been added;
- the instructions for health care providers have been amended in accordance with the "Family planning: A global handbook for providers" [4];
- the requirement for stability in situ has been removed since there is no practical way of controlling it.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Although every foreign object in the uterus exhibits a certain contraceptive effect, the method by which copper-bearing contraceptive intrauterine devices (IUDs) function is by the continuous release of copper ions. This interferes with some enzymatic functions, immobilizes sperm cells and inhibits fertilization.

The IUD is a highly effective contraceptive device with a long history of safe use. It can be used for many years, with a prompt return of fertility upon removal.

IUDs do not prevent sexually transmitted infections and condom use is recommended for those at risk.

IUDs containing copper are regarded as single use sterile medical devices implanted in the uterus. These medical devices are inserted and removed by trained and competent health care providers.

Copper-bearing contraceptive intrauterine devices — Requirements and tests

1 Scope

This document specifies requirements and tests for single-use, copper-bearing contraceptive intrauterine devices (IUDs) and their insertion instruments.

It is not applicable to IUDs consisting only of a plastics body or whose primary purpose is to release progestogens or other medicinal products.

NOTE Some aspects of this document can be applicable to medicated intrauterine devices and IUDs not containing copper.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 10993-1, Biological evaluation of medical devices — Part 1: Evaluation and testing within a risk management process

ISO 14155, Clinical investigation of medical devices for human subjects — Good clinical practice

ISO 14630:2012, Non-active surgical implants — General requirements

ISO 14971, Medical devices — Application of risk management to medical devices

ISO 15223-1, Medical devices — Symbols to be used with information to be supplied by the manufacturer — Part 1: General requirements

ASTM D 3078, Standard test method for determination of leaks in flexible packaging by bubble emission

ASTM F 1929standard test method for detecting seal leaks in porous medical packaging by dye penetration European Pharmacopoeia, (Ph. Eur.)¹⁾

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

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¹⁾ European Directorate for the Quality of Medicines (EDQM) of the Council of Europe.