

### SLOVENSKI STANDARD oSIST prEN ISO 16061:2020

01-marec-2020

### Instrumenti, ki se uporabljajo pri neaktivnih kirurških vsadkih (implantatih) -Splošne zahteve (ISO/DIS 16061:2020)

Instruments for use in association with non-active surgical implants - General requirements (ISO/DIS 16061:2020)

Instrumente, die in Verbindung mit nichtaktiven chirurgischen Implantaten verwendet werden - Allgemeine Anforderungen (ISO/DIS 16061:2020)

Instruments à utiliser en association avec les implants chirurgicaux non actifs -Exigences générales (ISO/DIS 16061:2020)

Ta slovenski standard je istoveten z: prEN ISO 16061

IST EN ISO 16061:202

ICS:

11.040.30 Operacijski instrumenti in materiali

Surgical instruments and materials

oSIST prEN ISO 16061:2020

en,fr,de

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# DRAFT INTERNATIONAL STANDARD ISO/DIS 16061

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## Instruments for use in association with non-active surgical implants — General requirements

Instruments à utiliser en association avec les implants chirurgicaux non actifs — Exigences générales

ICS: 11.040.40; 11.040.99

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### **ISO/CEN PARALLEL PROCESSING**



Reference number ISO/DIS 16061:2020(E)

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Page

Foreword			
Intro	Introduction		
1	Scope		
2	Normative references		
3	Terms and definitions		2
4	Intended performance		2
5	Design attributes		3
6	Selection of materials		4
7	<ul><li>7.1 General</li><li>7.2 Pre-clinical evaluation</li><li>7.3 Clinical evaluation</li></ul>		4 4 5
8	Manufacture		5
9	<ul><li>9.1 Instruments supplied sterile</li><li>9.2 Instruments supplied non-steri</li></ul>	le	6 6
10	10.1 Protection from damage in stor	age and transport	6
11 standard	11.1General11.2Marking on instruments11.3Label11.4Instructions for use	cturer	7 7 
Annex A (informative) Examples of typical applications of instruments to be used in association with non-active surgical implants and materials found acceptable for instrument manufacture			11
Bibliography			

### 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 documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see <a href="https://www.iso.org/directives">www.iso.org/directives</a>).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see <a href="https://www.iso.org/patents">www.iso.org/patents</a>).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT), see the following URL: Foreword — Supplementary information.

The committee responsible for this document is ISO/TC 150, *Implants for surgery*.

This fourth edition cancels and replaces the third edition (ISO 16061:2015), which has been technically revised.

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### Introduction

This document provides a method of addressing the fundamental principles outlined in ISO/TR 14283 <sup>[16]</sup> <sup>1)</sup> as they apply to instruments to be used in association with non-active surgical implants. It also provides a method that can be used to demonstrate compliance with applicable regulatory requirements relevant to the general safety and performance of medical devices as they apply to instruments to be used in association with non-active surgical implants.

There are three levels of standards dealing with instruments to be used in association with non-active surgical implants. They are as follows, with level 1 being the highest.

- Level 1: General requirements for instruments to be used in association with non-active surgical implants.
- Level 2: Particular requirements for families of instruments to be used in association with nonactive surgical implants.
- Level 3: Specific requirements for types of instruments to be used in association with non-active surgical implants.

Level 1 standards include this document which contains requirements that apply to all instruments to be used in association with non-active surgical implants, ISO 14630,<sup>[17]</sup> which contains requirement for non-active surgical implants and ISO 14708-1 <sup>[18]</sup> which contains requirements for active implants. They also anticipate that there are additional requirements in the level 2 and level 3 standards.

Level 2 standards apply to a more restricted set or family of instruments, such as those designed for use with non-active surgical implants used in neurosurgery, cardiovascular surgery, or joint replacement.

Level 3 standards apply to specific types of instruments within a family of instruments used in association with non-active surgical implants, such as hip joints or arterial stents.

To address all requirements for a specific instrument, it is advisable that the standard of the lowest available level be consulted first.

### ttps://st Compliance\_with\_a\_level\_3\_standard\_is\_intended\_to\_imply\_compliance\_with\_the\_applicable\_level\_2\_standards, if available, and with the applicable level 1 standard.

NOTE The requirements in this document correspond to international consensus. Individual or national standards or regulatory bodies can prescribe other requirements.

<sup>1)</sup> Numbers in square brackets refer to the Bibliography.

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## Instruments for use in association with non-active surgical implants — General requirements

### 1 Scope

This document specifies general requirements for instruments to be used in association with nonactive surgical implants. These requirements apply to instruments when they are manufactured and when they are supplied after refurbishment.

NOTE In this document, unless otherwise specified, the term "instrument" refers to an instrument for use in association with non-active surgical implants.

This document also applies to instruments which can be connected to power-driven systems, but does not apply to the power-driven systems themselves.

With regard to safety, this document gives requirements for intended performance, design attributes, materials, design evaluation, manufacture, sterilization, packaging, and information supplied by the instrument manufacturer, hereafter referred to as the manufacturer.

This document is not applicable to instruments associated with dental implants, transendodontic and transradicular implants and ophthalmic implants.

### 2 Normative references ://standards.iteh.ai)

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 8601-1, Date and time — Representations for information interchange — Part 1: Basic rules

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

ISO 11135, Sterilization of health-care products — Ethylene oxide — Requirements for the development, validation and routine control of a sterilization process for medical devices

ISO 11137-1, Sterilization of health care products — Radiation — Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices

ISO 11137-2, Sterilization of health care products — Radiation — Part 2: Establishing the sterilization dose

ISO 11137-3, Sterilization of health care products — Radiation — Part 3: Guidance on dosimetric aspects of development, validation and routine control

ISO 11607-1, Packaging for terminally sterilized medical devices — Part 1: Requirements for materials, sterile barrier systems and packaging systems

ISO 11607-2, Packaging for terminally sterilized medical devices — Part 2: Validation requirements for forming, sealing and assembly processes

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

ISO 14971:2019, Medical devices — Application of risk management to medical devices

ISO/TS 13004, Sterilization of health care products — Radiation — Substantiation of selected sterilization dose: Method VDmaxSD

ISO 14937, Sterilization of health care products — General requirements for characterization of a sterilizing agent and the development, validation and routine control of a sterilization process for medical devices

ISO 17664:2017, Processing of health care products — Information to be provided by the medical device manufacturer for the processing of medical devices

ISO 17665-1, Sterilization of health care products — Moist heat — Part 1: Requirements for the development, validation and routine control of a sterilization process for medical devices

ISO 25424, Sterilization of health care products — Low temperature steam and formaldehyde — Requirements for development, validation and routine control of a sterilization process for medical devices

ISO 80000-1, Quantities and units — Part 1: General

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 14971:2019 and the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at <a href="http://www.iso.org/obp">http://www.iso.org/obp</a>

#### 3.1

#### associated implant

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specific non-active surgical implant in association with which a specific instrument is intended to be used during a surgical procedure

#### 3.2

#### instrument

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non-active medical device intended for use during surgical procedures related to specific non-active surgical implants <u>SIST EN ISO 16061:2021</u>

Note 1 to entry: Examples of typical applications of instruments to be used in association with non-active surgical implants are presented in the <u>A.1</u>.

#### 3.3

#### non-active surgical implant

surgical implant, the operation of which does not depend on a source of electrical energy or any source of power other than that directly generated by the human body or gravity

[SOURCE: ISO 14630:2013, 3.6]

### 4 Intended performance

The intended performance of an instrument shall be described and documented by addressing the following, with particular regard to safety:

- a) intended purpose;
- b) functional characteristics; and
- c) intended conditions of use.

Instruments shall be evaluated to demonstrate that the intended performance is achieved (see <u>Clause 7</u>).

NOTE Information to support the description of the intended performance can be found in sources such as: