
**Prosthetics and orthotics —
Vocabulary —**

**Part 4:
Terms relating to limb amputation**

Prothèses et orthèses — Vocabulaire —

Partie 4: Termes relatifs à l'amputation de membres

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Foreword

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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 www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 168, *Prosthetics and orthotics*.

This second edition cancels and replaces the first edition (ISO 8549-4:2014), of which it constitutes a minor revision. The main changes compared to the previous edition are as follows:

- The use of hyphens in anatomical terms, such as transpelvic, has been abandoned in line with other parts of the ISO 8549 series.

A list of all parts in the ISO 8549 series can be found on the ISO website.

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

At present, no internationally accepted terminology describes the complete range of surgical limb amputation levels, amputation procedures, and persons who have had an amputation. Members of clinic teams in different countries have developed their own terminology to meet their own needs.

There is a need for a standard international system of terminology which will allow practitioners to accurately describe the surgical history of persons who have had a limb amputation(s) and to facilitate comparisons with the experience of other practitioners.

The terminology will also be of value to epidemiologists and governmental health officials.

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Prosthetics and orthotics — Vocabulary —

Part 4: Terms relating to limb amputation

1 Scope

This document specifies a vocabulary for the description of surgical limb amputations, amputation procedures, and persons who have had an amputation.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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

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

3.1 General limb amputation

3.1.1

limb amputation

surgical removal of the whole or part of a limb

3.1.2

level of amputation

joint or segment at which amputation is performed

Note 1 to entry: For the upper limb, see 3.1.3, and for the lower limb, see 3.1.4.

3.1.3

upper limb amputation

surgical removal of the whole or part of an upper limb

3.1.3.1

partial hand

amputations of the upper limb distal to the wrist joint

Note 1 to entry: These include the following:

- **Thumb:** Amputation of the whole or part of the thumb;
- **Phalangeal:** Amputation of part of one or more fingers;
- **Metacarpophalangeal disarticulation:** Amputation of one or more fingers;
- **Metacarpal:** Amputation of a part of the hand through one or more metacarpals;
- **Carpometacarpal disarticulation:** Amputation of a part of the hand at one or more of the carpometacarpal joints;

— **Carpal:** Amputation of a part of the hand through any of the carpal bones and/or joints.

Note 2 to entry: The complete description of a partial hand amputation requires the identification of the amputated bones and their levels of amputation.

3.1.3.2

wrist disarticulation

amputation of the upper limb at the wrist joint

3.1.3.3

transradial

amputation of the upper limb between the elbow joint and the wrist joint

3.1.3.4

elbow disarticulation

amputation of the upper limb at the elbow joint

3.1.3.5

transhumeral

amputation of the upper limb between the shoulder joint and the elbow joint

3.1.3.6

shoulder disarticulation

amputation of the upper limb at the shoulder joint

3.1.3.7

scapulothoracic disarticulation forequarter

amputation of the upper limb at the scapulothoracic and the sternoclavicular joints

3.1.4

lower limb amputation

surgical removal of the whole or part of a lower limb

3.1.4.1

partial foot

amputations of the lower limb distal to the ankle joint

Note 1 to entry: These include the following:

- **Phalangeal:** Amputation of part of one or more toes;
- **Metatarsophalangeal disarticulation:** Amputation of one or more toes;
- **Metatarsal:** Amputation of a part of the foot through one or more metatarsals;
- **Tarsometatarsal disarticulation:** Amputation of part of the foot at one or more of the tarsometatarsal joints;
- **Tarsal:** Amputation of a part of the foot through any of the tarsal bones and/or joints.

Note 2 to entry: The complete description of a partial foot amputation requires the identification of the amputated bones and their levels of amputation.

3.1.4.2

ankle disarticulation

amputation of the lower limb at the ankle joint

3.1.4.3

transtibial

amputation of the lower limb between the knee joint and the ankle joint

3.1.4.4**knee disarticulation**

amputation of the lower limb at the knee joint

3.1.4.5**transfemoral**

amputation of the lower limb between the hip joint and the knee joint

3.1.4.6**hip disarticulation**

amputation of the lower limb at the hip joint

3.1.4.7**transpelvic**

amputation of the whole lower limb together with all or part of the hemipelvis

3.2 Amputation procedures**3.2.1****initial amputation**

first amputation of the whole or part of a limb

3.2.2**initial upper limb amputation**

first amputation of the whole or part of an upper limb

3.2.3**initial lower limb amputation**

first amputation of the whole or part of a lower limb

Note 1 to entry: The complete description of an amputation has to specify upper or lower limb, left or right side.

3.2.4**revision amputation**

surgical procedure on a previously amputated limb without changing the *level of amputation* ([3.1.2](#))

Note 1 to entry: This can involve removal of soft tissue, bony tissue, or both.

3.2.5**two-stage amputation**

amputation planned to be carried out in two stages

Note 1 to entry: The first stage involves amputating the devitalized and/or infected parts of the limb. The wound may be left fully or partially open. The second stage involves revision amputation, or even amputation to a higher level, and wound closure.

3.2.6**reamputation**

amputation of an amputated limb to a higher level

3.3 Person who has had an amputation**3.3.1****amputee**

person who has had an amputation

Note 1 to entry: The complete description of the person requires the identification of the amputated limbs.

3.3.2**upper limb amputee**

person who has had an *upper limb amputation* ([3.1.3](#))