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**Prostheses and orthoses — Factors to be included when describing physical activity of a person who has had a lower limb amputation(s) or who has a deficiency of a lower limb segment(s) present at birth**

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*Prothèses et orthèses — Points à inclure lors de descriptif d'activité physique d'une personne ayant subi une amputation d'un membre inférieur ou qui a une malformation congénitale d'un segment de membre inférieur*

ISO 29781:2008

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## Foreword

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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.

ISO 29781 was prepared by Technical Committee ISO/TC 168, *Prosthetics and orthotics*.

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## Introduction

The activity of a person with an absent or deficient lower limb segment may be described in many ways. The various members of clinic teams in different countries develop their own nomenclature to record this information. Hence there is a need for an international system to allow comparisons to be made. The system described is designed to meet the needs of a clinic team in assessing a person and evaluating their treatment.

This International Standard indicates the minimum information concerning a person's activity, which is to be included in any description.

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# Prostheses and orthoses — Factors to be included when describing physical activity of a person who has had a lower limb amputation(s) or who has a deficiency of a lower limb segment(s) present at birth

## 1 Scope

This International Standard describes the factors to be included when describing the physical activity of a person who has had a lower limb amputation(s) or who has a deficiency of a lower limb segment(s) present at birth.

## 2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 2.1

#### **assisted**

with the help of another person

### 2.2

#### **assistive device**

product used to compensate for restricted activity (including walking aids and support devices such as hand rails, grab rails and arm rests)

### 2.3

#### **independently**

without the help of another person

## 2.4 Types of wheelchair

### 2.4.1

#### **wheelchair**

technical aid intended to provide wheeled mobility and body support for individuals with impaired ability to walk

### 2.4.2

#### **manual wheelchair**

**wheelchair** (2.4.1) that relies on an occupant or an assistant to provide power for its operation

[ISO 7176-26:2007, definition 4.1.2]

### 2.4.3

#### **electrically powered wheelchair**

**wheelchair** (2.4.1) in which the motor power is derived from an integral source of electric power

[ISO 7176-26:2007, definition 4.1.8]

### 3 Transfer and mobility

#### 3.1 General

The description should include the activities of the person both with (see 3.2) and without (see 3.3) a prosthesis(es), if appropriate.

#### 3.2 With a prosthesis(es)

- a) Don and doff.
- b) Transfer between bed and chair or wheelchair.
- c) Wheelchair use:
  - 1) **assisted** (2.1);
  - 2) **electrically powered** (2.4.3);
  - 3) **manual** (2.4.2).
- d) Rise from sitting to standing.
- e) Stand.
- f) Rise from floor to standing.
- g) Ambulate:
  - 1) swing to/swing through;
  - 2) hop or other method.
- h) Specify the method.
- i) Walk.

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Specify distance walked in a specified time.

State all the activities achieved, if **assisted** (2.1) or **independently** (2.3) and if used, type(s) of **assistive device** (2.2).

#### 3.3 Without a prosthesis(es)

- a) Confined to bed.
- b) Transfer between bed and chair or wheelchair.
- c) Wheelchair use:
  - 1) **electrically powered** (2.4.3);
  - 2) **manual** (2.4.2).
- d) Rise from sitting to standing.
- e) Stand.

- f) Rise from floor to standing.
- g) Ambulate:
  - 1) swing to/swing through;
  - 2) hop or other method.
- h) Specify method.
- i) Walk.

State all the activities achieved, and if **assisted** (2.1) or **independently** (2.3).

Specify any **assistive devices** (2.2) used.

### 3.4 Surfaces and obstacles

#### 3.4.1 General

State all the surfaces and obstacles which can be negotiated indoors (see 3.4.2) and outdoors (see 3.4.3) with and without a prosthesis.

Specify any assistive devices used.

#### 3.4.2 Indoors

- a) Horizontal, even surfaces.
- b) Thresholds, steps, stairs and ramps.

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#### 3.4.3 Outdoors

- a) Horizontal, even surfaces.
- b) Horizontal, uneven surfaces.
- c) Steps and stairs.
- d) Slopes.
- e) Any terrain.

## 4 Activities of daily life

- a) Toilet and bathe.
- b) Dress/undress.
- c) Drive motor vehicle.
- d) Perform housework.
- e) Cook.
- f) Occupational activities (specify).

- g) Recreational/sporting activities (specify).
- h) Cultural and social tasks:
  - 1) kneel;
  - 2) squat;
  - 3) sit cross-legged.

State all the activities regularly achieved, if assisted or independently, with and without a prosthesis.

Specify any assistive devices used.

## **5 Prosthetic wearing and usage time**

State the number of days per week and hours per day the prosthesis(es) is (are) worn.

State the number of days per week and hours per day the prosthesis(es) is (are) used to stand, ambulate, walk and perform the specified activities of daily life.

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## Bibliography

- [1] ISO 7176-26:2007, *Wheelchairs — Part 26: Vocabulary*

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