
**Prosthetics and orthotics —
Functional deficiencies — Description
of the person to be treated with
an orthosis, clinical objectives
of treatment, and functional
requirements of the orthosis**

*Prothèses et orthèses — Malformations des membres — Description
de la condition de l'utilisateur d'orthèse, objectifs cliniques, et
exigences fonctionnelles et biomécaniques de l'orthèse*



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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 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).

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 www.iso.org/patents).

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

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 168, *Prosthetics and orthotics*.

This second edition cancels and replaces the first edition (ISO 8551:2003), which has been technically revised. The main changes compared to the previous edition are as follows:

- the terminology used in this document has been revised to make it fully consistent with the terminology used in Reference [5].

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

The quality of life of a person will depend on the health conditions which affect them, the consequential impairments to the body functions and structures, and the resulting activity limitations

The aim of orthotic treatment is to manage the impairments, reduce the activity limitations and thus improve participation in all aspects of daily life.

This document provides clinicians with a method of recording the relevant information regarding the condition of their patients, the clinical objectives of treatment and the functional requirements of the orthoses provided to achieve these objectives.

A standard method is essential for comparing the clinical practices and the outcomes of treatment provided in different centres. Such a method is also of value to epidemiologists and government health officials.

Prosthetics and orthotics — Functional deficiencies — Description of the person to be treated with an orthosis, clinical objectives of treatment, and functional requirements of the orthosis

1 Scope

This document establishes a method of describing the person to be treated with an orthosis, the clinical objectives of treatment and the functional requirements of the orthosis.

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 8549-1, *Prosthetics and orthotics — Vocabulary — Part 1: General terms for external limb prostheses and external orthoses*

ISO 8549-3, *Prosthetics and orthotics — Vocabulary — Part 3: Terms relating to external orthoses*

ISO 13404, *Prosthetics and orthotics — Categorization and description of external orthoses and orthotic components*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 8549-1, ISO 8549-3 and ISO 13404 and the following apply.

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

alignment of a skeletal segment

spatial relationship between the ends of the segment

Note 1 to entry: The alignment of a skeletal segment is determined by its integrity and/or shape.

3.2

alignment of a joint

spatial relationship between the skeletal segments which comprise the joint

Note 1 to entry: The alignment of a joint is determined by the integrity and shape of the skeletal segments of which it is comprised, and the action of associated muscular and ligamentous/capsular tissues. These factors also govern the type and range of motion at the joint.