
**Health informatics — Categorical
structures for representation of
acupuncture —**

Part 2:
Needling

*Informatique de santé — Structures catégoriques pour la
représentation de l'acupuncture —*

Partie 2: Puncture



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ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

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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).

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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 215, *Health informatics*.

Introduction

In this Technical Specification, acupuncture is a branch of traditional Chinese medicine which mainly involves the theory of meridians, location, usage, indications and combinations of acupoints, needling manipulations and application of ignited moxa in the treatment of disease through regulation of qi, blood and visceral functions.

Acupuncture therapy is widely practiced as a part of complementary and alternative medicine throughout East Asia and also in western countries.

A guideline for reporting acupuncture interventions in clinical trials is already available, and a large number of clinical trials have been conducted to assess efficacy and efficiency of acupuncture therapy. However, the descriptions of acupuncture interventions in clinical reports tend to be insufficient for interpretation of heterogeneity among trials, often causing difficulties for data synthesis in meta-analyses. This arises for three reasons: firstly because an appropriate information structure of acupuncture needling is not used, secondly because certain concepts within traditional medicine practice in the western pacific-rim region originated in China and are frequently not sufficiently considered, and thirdly because semantic associations between concepts of acupuncture needling need to be explicitly identified.

This Technical Specification defines the categorial structures within the subject field of acupuncture needling in order to address these problems.

Health informatics — Categorial structures for representation of acupuncture —

Part 2: Needling

1 Scope

The purpose of this Technical Specification is to specify categorial structures within the subject field of acupuncture by defining a set of domain constraints for use within terminological resources.

This Technical Specification describes a concept system detailing domain constraints of sanctioned characteristics, each composed of a semantic link and an applicable characterizing category.

The potential benefits of this Technical Specification include:

- a) support for developers of new terminology systems concerning acupuncture needling;
- b) support for developers of new detailed content areas of existing terminology systems concerning acupuncture needling procedures to ensure accuracy, repeatability and comparability;
- c) facilitating the representation of acupuncture needling procedures using a standard core model in a manner suitable for computer processing;
- d) providing a conceptual framework for the generation of compositional concept representation of acupuncture needling;
- e) facilitating the mapping and improved semantic correspondence between different terminologies by proposing a core specification for acupuncture needling;
- f) providing a core model to describe the structure of acupuncture, and facilitate improved semantic correspondence with information models;
- g) providing a tool for acupuncture text mining, database construction, ancient documents processing and wide area of acupuncture information collection and processing;
- h) providing a new method for researchers to conduct relevant research, and ideas for the development of acupuncture disciplines.

Target groups include:

- stakeholders such as companies that offer systems that incorporate Electronic Categorial Structures, by helping building knowledge databases or automatic processing of medical literature, and
- doctors, who can be better assisted with knowledge and documentation of needling procedures.

This Technical Specification can also be used in clinical decision support and to help in data mining for researchers.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 17115, *Health informatics — Vocabulary for terminological systems*

3 Terms and definitions

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

3.1

concept

unit of knowledge created by a unique combination of characteristics

Note 1 to entry: A concept can have one or more names. It can be represented using one or more terms, pictures, icons or sounds.

3.2

categorial structure

minimal set of domain constraints for representing concept systems in a subject field

3.3

category

division of sets of entities regarded as having particular shared characteristics ([3.4](#))

EXAMPLE Oral route, subcutaneous route and all other routes share characteristics particular to the category route.

Note 1 to entry: Categories may be more or less general. Where one category is subsumed by another, the relation is asserted to obtain a hierarchy between the more specific or subsumed category and the more general or subsuming category. For example, parenteral route is more general than intravenous route.

3.4

characteristic

abstraction of a property of an entity or of a set of entities

EXAMPLE Fever is a characteristic symptom of flu.

Note 1 to entry: Characteristics are used for describing concepts ([3.1](#)) and for differentiating categories ([3.3](#)).

3.5

semantic link

formal representation of a directed associative relation or partitive relation between two concepts

EXAMPLE is Cause Of (with inverse has Cause); has Location (with inverse is Location Of).

Note 1 to entry: This includes all relations except the generic relation.

Note 2 to entry: A semantic link always has an inverse, i.e. another semantic link with the opposite direction.

[SOURCE: WHO International Standard Terminologies on Traditional Medicine in the Western Pacific Region —WHO Western Pacific Region, 2007]