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Health informatics — Categorial structure for Chinese materia medica products manufacturing process

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Contents

Page

Foreword

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This document was prepared by Technical Committee ISO/TC 215, *Health informatics*.

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

Chinese materia medica is widely utilized as a part of complementary and alternative medicine throughout East Asia and western countries. In order to ensure the quality and therapeutic effect of Chinese medicines, it is important to use a proper manufacturing process of Chinese materia medica.

The manufacturing process of traditional Chinese materia medica products is a complicated control system engineering including equipment, technology and quality. The manufacturing process proposed in this document is a part of traditional Chinese materia medica control system engineering.

There are many types of manufacturing process, but systematic terminology definitions and semantic links did not exist, which often caused difficulties for production management and metadata analysis.

This arises from two reasons: firstly, a wide variety of dosage forms and manufacturing process are difficult to classify accurately; secondly, the categorial structure of processing Chinese materia medica has not been published.

This document provides a categorial structure which could solve these problems and improve the scientific level of production management of Chinese medicines.

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1 Scope

This document specifies the whole manufacturing process of Chinese materia medica products by defining a set of domain constraints of sanctioned characteristics, each composed of a relationship and an applicable categorial structure. It includes three process categories: processing, extracting and preparation.

This document is not applicable to Japanese traditional KAMPO medicinal products.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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 General

3.1.1
concept
unit of knowledge created by a unique combination of *characteristics* (3.1.4)

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.

3.1.2
category
division of sets of entities regarded as having particular shared *characteristics* (3.1.4)

EXAMPLE Freeze drying, spray drying and all other drying share characteristics particular to the category drying.

Note 1 to entry: Categories can be more or less general. Where one category is subsumed by another, there is a relation 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.

3.1.3
categorial structure
minimal set of domain constraints for representing concept systems in a subject field

3.1.4
characteristic
abstraction of a property, of an object or of a set of objects

EXAMPLE Fever is a characteristic symptom of flu.