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Health Informatics — Categorial structures for representation of Ayurvedic medicinal water — Decocting process in Ayurveda

Informatique de santé — Structure catégorielle pour la représentation de l'eau médicinale ayurvédique — Processus de décoction en Ayurveda

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Foreword

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

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Introduction

Ayurvedic medicine finds wide applicability world-wide as a traditional medicinal practice and its user base is growing rapidly. It plays a significant role in healthcare. Herbal medicinal water including decoction, hot infusion and cold infusion are among the most potent, versatile and commonly used Ayurvedic dosage forms. Herbal decoctions are also used in other forms of traditional medical systems. Decoction is the most common method for taking Traditional Chinese Medicine (TCM) medication, however, the process of decoction making in Ayurveda is distinct.

The presence of a categorial structure-driven terminology and process system for Ayurvedic diagnosis and treatment, including the procedure of making an Ayurvedic decoction, is essential for semantic interoperability of Ayurvedic health records and its integration with biomedicine. This would facilitate the consumption and computer processed analysis of research data pertaining to prescription and efficacy of Ayurvedic decoction.

This document provides categorial structures used by the terminological systems corresponding to Ayurvedic decoction making process.

The potential benefits of this document include:

— facilitating representation of Ayurvedic herbal decoction making process using a standard core model in a manner suitable for computer processing;

— supporting developers to provide new terminological systems concerning the Ayurvedic herbal decoction making process;

— supporting developers to provide new detailed content areas for existing terminological systems concerning the Ayurvedic herbal decoction making process;

— facilitating mapping, integration and interoperability between Ayurvedic and other traditional systems of medicine by proposing a specification for Ayurvedic herbal decoction making process;

— designing a core model describing the structure of Ayurvedic herbal decoction making process and facilitating improved semantic correspondence with other information models;

— facilitating meta-data association, automatic processing of medicinal literature and texts on Ayurvedic herbal decoction making process and integration of the same with Ayurveda-based electronic health records (EHR) systems.

The potential beneficiaries of this document include:

— developers of information systems for AI-based processing of literature pertaining to traditional systems of medicine;

— informaticians, analysts and researchers who would need common models of knowledge to facilitate analysis of data available on traditional systems of medicine;

— developers of EHR systems, aiming on interoperability of biomedicine and traditional systems of medicine.