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Health informatics — Integration of a reference terminology model for nursing

*Informatique de santé — Intégration d'un modèle de terminologie de
référence pour les soins infirmiers*



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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 18104 was prepared by Technical Committee ISO/TC 215, *Health informatics*. Through a work item proposal initiated by the International Council of Nurses and the Nursing Informatics Special Interest Group of the International Medical Informatics Association, the work related to this International Standard takes forward, under the Vienna Agreement, the efforts initiated in ENV 14032, *Health Informatics — System of concepts to support nursing*.

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Introduction

Terminology development in nursing has been motivated by multiple factors including

- implementation of computer-based systems in clinical settings,
- quest for reimbursement for nursing services delivered,
- documentation of nursing contributions to patient care outcomes,
- teaching students, and
- enhancing the body of nursing knowledge.

Nursing terminologies, in either paper-based or computer-based form, have been designed as enumerated classifications and implemented both as interface terminologies at the point of care and as administrative terminologies to examine nursing data across settings. At the present time, many standardized terminologies exist and no single standardized terminology is complete for the domain in terms of breadth or granularity. Moreover, there is currently no concept-oriented terminology that integrates the domain concepts of nursing in a manner suitable for computer processing.

In recent years, however, significant advances have been made toward the development of concept-oriented reference terminologies that support the domain concepts of nursing. Among the remaining major challenges are the development of a reference terminology model that supports the representation of nursing concepts and the integration of the reference terminology model with other models for the health-care domain [1]. A number of efforts have focused on addressing these challenges. Prominent among these is the work within the European Standardization Committee (CEN TC 251) that brought together the efforts of the International Classification for Nursing Practice (ICNP[®]) Programme, Telenurse ID, and other European efforts (e.g., nursing activities within the Galen programme) into a Prestandard — ENV 14032 [2], [3], [4], [5], [6]. Also of relevance to this International Standard are activities related to the International Medical Informatics Association Nursing Informatics Special Interest Group, Nursing Terminology Summits, Systematized Nomenclature of Medicine (SNOMED[®]) Convergent Terminology Group for Nursing, Health Level 7, and Clinical Logical Observation Identifiers, Names, and Codes (LOINC) [3], [7], [8], [9].

In contrast to the CEN Prestandard that broadly addressed categorial structures for nursing diagnoses and nursing actions, this International Standard focuses specifically on the conceptual structures that are represented in a reference terminology model rather than in other types of information models. Moreover, toward the goal of integration with other health-care models, the reference terminology models for nursing diagnoses and nursing actions in this International Standard reflect attempts at harmonisation with evolving terminology and information model standards outside the domain of nursing.