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Health informatics - Messages for maintenance of supporting information in healthcare systems - Part 2: Updating of medical laboratory-specific information

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NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

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This European Prestandard (ENV) was approved by CEN on 29 July 1999 as a prospective standard for provisional application.

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Foreword

This European Prestandard has been prepared by Technical Committee CEN/TC 251 "Health informatics", the secretariat of which is held by SIS.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this European Prestandard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

This is Part 2 of a multipart standard on *Messages for Maintenance of Supporting Information in Healthcare Systems*. The multipart standard consists of the following parts:

- Part 1: Updating of Coding Schemes
- Part 2: Updating of Medical Laboratory-Specific Information

This standard was drafted using the conventions of the ISO/IEC directive part 3.

All Annexes are Informative.

Introduction

This Prestandard covers Messages for Maintenance of Supporting Information in Healthcare Systems and is concerned with the specification of a message that may be used to create or update information that is appended to entries in a coding scheme. In particular, this message is used to provide supporting information that may be used to aid healthcare professionals when they are requesting laboratory investigations.

This message specification has been validated against the requirements identified when users request investigations that are within the domain covered by ENV 1613, *Messages for Request and Report of Laboratory Investigations.* The message is used to provide up-to-date information to persons using computer systems to request laboratory investigations.

This Prestandard defines a syntax independent specification of a message that may be used to provide a means of supplying receiving systems with sufficient information to create or update a database or other information retrieval system with information concerning:

(a) the volume or mass of sample required by the laboratory when carrying out the tests,
(b) the sampling procedure and any procedures to be carried out on the sample or the sample donor,
(c) the identification of the sample container(s) that should be used,
(d) any groups of tests that are carried out concurrently on the same sample at the same time as a matter of routine,
(e) information that should be provided with the sample such as the patient’s sex, age, weight, etc.,
(f) information that should be provided to the patient,
(g) information about the service provided by the laboratory vis-à-vis the investigation, e.g. only as routine, only as emergency, not at weekend.

The main normative provisions in this Prestandard are expressed in clauses 4, 5 and 6.
Much, although not all, of the representation used in this Prestandard is drawn from the Unified Modelling Language (UML). The reader shall, however, interpret the representations within this Prestandard according to the provisions laid out in Informative Annex B.

Health informatics - Messages for maintenance of supporting information in healthcare systems - Part 2: Updating of medical laboratory-specific information

1. Scope

1.1 This Prestandard specifies messages for electronic information exchange between computer systems used by healthcare parties for the purposes of updating Supporting information that is attached to code values within a coding scheme. In particular, this message is intended to provide information to clinicians that are requesting tests within the specialties of:

- haematology,
- clinical chemistry,
- cytology,
- biochemistry,
- immunology.

1.2. This Prestandard provides a description of a message which provides sufficient information to allow a receiving system to associate supporting information to code values representing laboratory investigations that may be performed on samples taken from the patient. The requirements for the supporting information have been validated solely against those investigations that are within the scope of ENV 1613, *Messages for Request and Report of Laboratory Investigations.* The supporting information may include any or all of the information items relating to:

(a) the sampling procedure, including volume/mass of sample required, sample container, sample treatment, etc.
(b) any information that should accompany the sample such as age, sex, cycle, height, weight, etc.
(c) any advice to the patient.
(d) any patient preparation procedures, etc

In addition, the supporting information may provide information about the suppliers of the laboratory services.