ISO/TR 12300:2014-11 (E)

Health informatics - Principles of mapping between terminological systems

Contents

Page

Foreword v

Introduction vi

1 Scope 1

2 Termsanddefinitions 1
2.1 General 1
2.2 Terminological resources 4

3 Symbols and abbreviations 6

4 Summary of key issues for decision makers 6
4.1 General 6
4.2 Purpose of the map 6
4.3 Map use frequency 7
4.4 Building the map 8
4.5 Commitment and adequate resourcing 9
4.6 Challenges in achieving automated classification assignment on the basis of a map 10
4.7 Context is crucial to map production 11
4.8 Implementing a map table 12
4.9 Decision making matrix 12

5 Principles of mapping 14
5.1 Overview 14
5.2 Terminologies vs classifications 15
5.3 One-time or maintained maps 17
5.4 Business case for mapping 18
5.5 Why are maps used? 19

6 Characteristics of a quality map and mapping process 22
6.1 Clearly declared purpose 22
6.2 Use scenarios to define purpose and user requirements 23
6.3 Machine processable format 24
6.4 Identify the versions 24
6.5 Development/maintenance team skills 24
6.6 Conventions and rules followed 24
6.7 Involve custodians and users 25
6.8 Open and documented map production processes 25
6.9 Describe the direction of the map 26
6.10 Clearly specified cardinality 27
6.11 Explicit specification of loss or gain of meaning 28
6.12 Demonstrate the degree of equivalence of the map 29
6.13 Explicit guidelines and heuristics applied in development and for implementation 30
6.14 Documented map sets/data structures, distribution format, and licensing 31
6.15 Quality assurance plan 31
6.16 Consensus management process 31
6.17 Validation 31
6.18 Maintenance and evaluation plan 32
6.19 Supporting documentation of mapping process 33
6.20 Build and manage through a mapping team 33
6.21 Other opportunities 33

7 Map development and maintenance team 33
7.1 Mapping project roles and responsibilities 33
7.2 Map sponsor 34
7.3 Mapping manager 34
7.4 Mapping specialist team leader 34
7.5 Mapping specialists 35
7.6 Clinical support 35
7.7 Consensus management specialists 35
7.8 Information technology support 35
7.9 Other members 36

Bibliography 37