

# ISO 21090:2011-02 (E)

## Health informatics - Harmonized data types for information interchange

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	2
4	Abbreviated terms .....	4
5	Conformance .....	5
5.1	General .....	5
5.2	Direct conformance .....	5
5.3	Indirect conformance .....	7
6	Datatypes overview .....	9
6.1	What is a datatype? .....	9
6.2	Definitions of datatypes .....	9
6.3	Datatype names and re-use of common datatype names .....	10
6.4	Mapping to this datatypes International Standard .....	10
6.5	Conformance with ISO/IEC 11404 .....	10
6.6	Reference to UML 2 .....	11
6.7	Modelling of datatypes .....	11
7	Datatypes .....	15
7.1	General properties .....	15
7.2	Top level model .....	20
7.3	Basic datatypes .....	22
7.4	Text and binary datatypes .....	33
7.5	Coded datatypes (terminology) .....	48
7.6	Identification and location datatypes .....	61
7.7	Name and address datatypes .....	72
7.8	Quantity datatypes .....	93
7.9	Collections of datatypes .....	121
7.10	Continuous set datatypes .....	136
7.11	Uncertainty datatypes .....	155
7.12	Structured text .....	158
Annex A (normative) XML representation .....		180
Annex B (normative) UML support types .....		183
Annex C (informative) RM-ODP viewpoint mappings .....		186
Annex D (informative) HL7 V3 Abstract Data Types mapping .....		187
Annex E (informative) Schema for XML representation .....		194
Bibliography .....		195