



Australian Government

Australian Digital Health Agency



**Body Measurement  
Detailed Clinical Model Specification  
Version 1.2**

5 August 2016

Approved for external use

Document ID: DH-2421:2016

**Australian Digital Health Agency**

Level 25, 56 Pitt Street

Sydney, NSW 2000

Australia

[www.digitalhealth.gov.au](http://www.digitalhealth.gov.au)

**Disclaimer**

The Australian Digital Health Agency (“the Agency”) makes the information and other material (“Information”) in this document available in good faith but without any representation or warranty as to its accuracy or completeness. The Agency cannot accept any responsibility for the consequences of any use of the Information. As the Information is of a general nature only, it is up to any person using or relying on the Information to ensure that it is accurate, complete and suitable for the circumstances of its use.

**Document control**

This document is maintained in electronic form and is uncontrolled in printed form. It is the responsibility of the user to verify that this copy is the latest revision.

**Copyright © 2016 Australian Digital Health Agency**

This document contains information which is protected by copyright. All Rights Reserved. No part of this work may be reproduced or used in any form or by any means – graphic, electronic, or mechanical, including photocopying, recording, taping, or information storage and retrieval systems – without the permission of the Australian Digital Health Agency. All copies of this document must include the copyright and other information contained on this page.

# Document Information

## Key Information

<b>Owner</b>	General Manager, Clinical Informatics, Terminology and Tooling
<b>Contact for enquiries</b>	Australian Digital Health Agency Help Centre
t:	1300 901 001
e:	<a href="mailto:help@digitalhealth.gov.au">help@digitalhealth.gov.au</a>

## Product Version History

Product version	Date	Release comments
1.0	4 Sep 2013	Initial public release.
1.1	18 Dec 2015	This version of the specification is updated to correct the value of an OID, use the current version of Related Information (previously called "Link"), use the current common design elements for observations (Observation DateTime) and incorporate editorial corrections.
1.2	5 Aug 2016	This version of the specification has been rebranded to the Australian Digital Health Agency. The DCMs are unaltered, except for rebranding for the Australian Digital Health Agency.

## Related Documents

Name	Version/Release Date
<a href="#">Participation Data Specification</a>	Version 3.2, Issued 20 July 2011

## Included Detailed Clinical Models

This specification contains the following detailed clinical models:

- Body Height/Length, version 3.1
- Body Weight, version 3.1
- Body Part Circumference, version 1.1
- Body Mass Index, version 1.1

*This page is intentionally left blank.*

# Acknowledgements

## Council of Australian Governments

The Australian Digital Health Agency is jointly funded by the Australian Government and all state and territory governments.

## Regenstrief Institute (LOINC)

This material contains content from LOINC™ (<http://loinc.org>). The LOINC table, LOINC codes, LOINC panels and forms file, and LOINC linguistic variants file are copyright © 1995-2015, Regenstrief Institute, Inc. and the Logical Observation Identifiers Names and Codes (LOINC) Committee and available at no cost under the license at <https://loinc.org/terms-of-use/>. LOINC is a trademark of Regenstrief Institute, Inc., registered in the United States.

## IHTSDO (SNOMED CT)

This material includes SNOMED Clinical Terms™ (SNOMED CT®) which is used by permission of the International Health Terminology Standards Development Organisation (IHTSDO). All rights reserved. SNOMED CT® was originally created by The College of American Pathologists.

“SNOMED” and “SNOMED CT” are registered trademarks of the IHTSDO, (<http://www.ihtsdo.org/>).

## HL7 International

This document includes excerpts of HL7™ International standards and other HL7 International material. HL7 International is the publisher and holder of copyright in the excerpts. The publication, reproduction and use of such excerpts is governed by the HL7 IP Policy (see <http://www.hl7.org/legal/ippolicy.cfm>) and the HL7 International License Agreement. HL7 and CDA are trademarks of Health Level Seven International and are registered with the United States Patent and Trademark Office.

*This page is intentionally left blank.*

# Table of Contents

1. Introduction .....	1
1.1. Purpose and Scope .....	1
1.2. Intended Audience .....	1
1.3. Background .....	1
1.4. Terminology .....	1
2. Body Height/Length Detailed Clinical Model .....	3
2.1. Purpose .....	3
2.2. Use .....	3
2.3. Misuse .....	3
2.4. UML Class Diagram .....	3
2.5. BODY HEIGHT/LENGTH .....	5
2.6. HEIGHT/LENGTH .....	7
2.7. Height/Length Value .....	8
2.8. REFERENCE RANGE DETAILS .....	9
2.9. Normal Status .....	10
2.10. REFERENCE RANGE .....	12
2.11. Reference Range Meaning .....	13
2.12. Reference Range .....	14
2.13. Measurement Comment .....	15
2.14. Position .....	16
2.15. Position Values .....	17
2.16. CONFOUNDING FACTOR .....	18
2.17. Confounding Factor Name .....	19
2.18. Confounding Factor Value .....	20
2.19. DEVICE .....	21
2.20. INFORMATION PROVIDER .....	23
2.21. SUBJECT .....	26
2.22. Observation DateTime .....	27
2.23. Body Height/Length Instance Identifier .....	29
2.24. RELATED INFORMATION .....	30
2.25. Link Nature .....	31
2.26. Link Nature Values .....	32
2.27. Link Role .....	34
2.28. Link Role Values .....	35
2.29. Target .....	37
2.30. Detailed Clinical Model Identifier .....	38
3. Body Weight Detailed Clinical Model .....	39
3.1. Purpose .....	39
3.2. Use .....	39
3.3. Misuse .....	39
3.4. UML Class Diagram .....	39
3.5. BODY WEIGHT .....	41
3.6. WEIGHT .....	43
3.7. Weight Value .....	44
3.8. REFERENCE RANGE DETAILS .....	45
3.9. Normal Status .....	46
3.10. REFERENCE RANGE .....	48
3.11. Reference Range Meaning .....	49
3.12. Reference Range .....	50
3.13. Measurement Comment .....	51
3.14. State of Dress .....	52
3.15. State of Dress Values .....	53
3.16. Pregnancy Indicator .....	54
3.17. Pregnancy Indicator Values .....	55
3.18. CONFOUNDING FACTOR .....	56
3.19. Confounding Factor Name .....	57
3.20. Confounding Factor Value .....	58
3.21. DEVICE .....	59

3.22. Weight Estimation Formula .....	61
3.23. INFORMATION PROVIDER .....	62
3.24. SUBJECT .....	65
3.25. Observation DateTime .....	66
3.26. Body Weight Instance Identifier .....	68
3.27. RELATED INFORMATION .....	69
3.28. Link Nature .....	70
3.29. Link Nature Values .....	71
3.30. Link Role .....	73
3.31. Link Role Values .....	74
3.32. Target .....	76
3.33. Detailed Clinical Model Identifier .....	77
4. Body Part Circumference Detailed Clinical Model .....	79
4.1. Purpose .....	79
4.2. Use .....	79
4.3. UML Class Diagram .....	79
4.4. BODY PART CIRCUMFERENCE .....	81
4.5. ANATOMICAL LOCATION .....	84
4.6. SPECIFIC LOCATION .....	85
4.7. Anatomical Location Name .....	86
4.8. Body Structure Foundation Reference Set .....	87
4.9. Side .....	88
4.10. Laterality Reference Set .....	89
4.11. Numerical Identifier .....	90
4.12. Anatomical Plane .....	91
4.13. RELATIVE LOCATION .....	92
4.14. Identified Landmark .....	93
4.15. Anatomical Location Aspect .....	94
4.16. Distance From Landmark .....	96
4.17. Anatomical Location Description .....	97
4.18. Visual Markings/Orientation .....	98
4.19. Anatomical Location Image .....	99
4.20. CIRCUMFERENCE .....	100
4.21. Circumference Value .....	101
4.22. REFERENCE RANGE DETAILS .....	102
4.23. Normal Status .....	103
4.24. REFERENCE RANGE .....	105
4.25. Reference Range Meaning .....	106
4.26. Reference Range .....	107
4.27. Measurement Comment .....	108
4.28. CONFOUNDING FACTOR .....	109
4.29. Confounding Factor Name .....	110
4.30. Confounding Factor Value .....	111
4.31. DEVICE .....	112
4.32. INFORMATION PROVIDER .....	114
4.33. SUBJECT .....	117
4.34. Observation DateTime .....	118
4.35. Body Part Circumference Instance Identifier .....	120
4.36. RELATED INFORMATION .....	121
4.37. Link Nature .....	122
4.38. Link Nature Values .....	123
4.39. Link Role .....	125
4.40. Link Role Values .....	126
4.41. Target .....	128
4.42. Detailed Clinical Model Identifier .....	129
5. Body Mass Index Detailed Clinical Model .....	131
5.1. Purpose .....	131
5.2. Use .....	131
5.3. UML Class Diagram .....	131
5.4. BODY MASS INDEX .....	133



5.5. BODY MASS INDEX .....	135
5.6. Body Mass Index Value .....	136
5.7. REFERENCE RANGE DETAILS .....	137
5.8. Normal Status .....	138
5.9. REFERENCE RANGE .....	140
5.10. Reference Range Meaning .....	141
5.11. Reference Range .....	142
5.12. BMI Observation Note .....	143
5.13. BMI Entry Method .....	144
5.14. BMI Entry Method Values .....	145
5.15. BMI Calculation Formula .....	146
5.16. INFORMATION PROVIDER .....	147
5.17. SUBJECT .....	150
5.18. Observation DateTime .....	151
5.19. Body Mass Index Instance Identifier .....	153
5.20. RELATED INFORMATION .....	154
5.21. Link Nature .....	155
5.22. Link Nature Values .....	156
5.23. Link Role .....	158
5.24. Link Role Values .....	159
5.25. Target .....	161
5.26. Detailed Clinical Model Identifier .....	162
A. Known Issues .....	163
B. Specification Guide for Use .....	165
B.1. Overview .....	165
B.2. The Structured Content Specification Metamodel .....	165
Structured Document .....	166
Context .....	167
Content .....	167
Section .....	167
Data Group .....	167
Participation .....	167
Choice .....	167
Data Element .....	168
Value Domain .....	168
B.3. Icon Legend .....	168
Metadata Types Legend .....	169
Data Types Legend .....	169
Keywords Legend .....	173
Obligation Legend .....	174
B.4. Exceptional Values .....	175
B.5. Information Model Specification Parts Legends .....	176
Chapter Name .....	176
Identification Section Legend .....	176
Definition Section Legend .....	176
Data Hierarchy .....	177
Sample SCS Data Hierarchy .....	178
Value Domain Section Legend .....	179
Usage Section Legend .....	179
Relationships Section Legend .....	180
C. Change History .....	181
C.1. Changes Since Version 1.1 - 18 December 2015 .....	181
Reference List .....	183
Index .....	185

*This page is intentionally left blank.*

# 1 Introduction

## 1.1 Purpose and Scope

This detailed clinical model (DCM) specification forms part of a suite of data specifications that the Australian Digital Health Agency (the Agency) is developing for the Australian health informatics community. The suite comprises specifications for a range of health topics (represented as data groups), which are considered to be the most critical to support the work programme given to the Agency and to realise the benefits derived from Level 4 (semantic) interoperability<sup>1</sup> in the Australian healthcare setting.

We value your questions and comments about this document. Please direct your questions or feedback to [help@digitalhealth.gov.au](mailto:help@digitalhealth.gov.au).

## 1.2 Intended Audience

This document is intended to be read by jurisdictional information and communication technology (ICT) managers, clinicians involved in clinical information system specifications, software architects and developers, and implementers of clinical information systems in various healthcare settings.

This is a technical document; the audience should be familiar with the language of health data specification and also have some familiarity with health information standards and specifications. Definitions and examples are provided to clarify relevant terminology, usage, and intent.

## 1.3 Background

One area of priority for us is the identification of digital health data to be communicated and its structure. We are addressing this through data specifications, which detail the data elements (logically grouped) and their associated value domains.

Data specifications need to be independent of messaging formats. They are concerned with providing an information framework in which to achieve semantic interoperability.

Data specifications have been developed based on priorities identified by jurisdictions and clinicians, incorporating clinical examples of use to enhance utility and adoption. These specifications are intended to:

- suit the Australian model for a shared electronic health record;
- define collections of related information, e.g. event summaries, data groups, data elements;
- be human readable (with information enhanced by the hierarchical structure);
- provide a set of clinical terminologies specific to the requirements of the Australian healthcare system; and
- allow for expansion and extension as electronic systems mature.

While the My Health Record system is referred to in these documents, implementation within the system is not dealt with here.

## 1.4 Terminology

Our National Clinical Terminology Service (NCTS) is defining a national approach to clinical terminology. Consistent and accurate articulation and interpretation of clinical terms is critical to the process of safe exchange.

---

<sup>1</sup>Level 4 interoperability is described in [The Value Of Health Care Information Exchange And Interoperability \[WALJ2005a\]](#).

We recommend the SNOMED CT as the preferred clinical terminology for Australia and this has been endorsed by the Australian, state and territory governments. SNOMED CT is considered to be the most comprehensive multilingual health terminology in the world. It is owned, maintained and distributed by the International Health Terminology Standards Development Organisation (IHTSDO).

Our NCTS is the Australian National Release Centre for SNOMED CT and is also responsible for managing, developing and distributing national clinical terminologies, such as SNOMED CT Australian Release (SNOMED CT-AU), the Australian Medicines Terminology (AMT), and related tools and services.

SNOMED CT-AU provides local variations and customisation of terms relevant to the Australian healthcare community. It includes the international resources, along with all Australian-developed terminology for implementation in Australian clinical information technology systems. The AMT provides a consistent approach to the identification and naming of medicines, and supports medicines management and activity across the Australian healthcare domain. The AMT is now included within SNOMED CT-AU, with even closer integration planned for the future.

Reference sets listed as value domains within this document have been developed taking into account data element and data group definitions, as well as how they align with and complement the SNOMED CT concept model.

SNOMED CT-AU has been available for software developers to use in their Australian products since 1 July 2006. It is updated monthly and is freely available under a dual licensing arrangement – namely the SNOMED CT Affiliate License and Australian National Terminology License.

For further information regarding terminology and the development of reference sets, please visit <http://www.healthterminologies.gov.au>. Email [help@digitalhealth.gov.au](mailto:help@digitalhealth.gov.au) with questions or feedback.

# 2 Body Height/Length Detailed Clinical Model

This chapter describes version 3.1 of the *Body Height/Length* Detailed Clinical Model.

## 2.1 Purpose

To record the body height or length of a person, from crown of head to sole of foot, in a standing or recumbent position. Body height or length can be measured as actual or approximate.

## 2.2 Use

To be used for recording the body height or length of a person.

## 2.3 Misuse

Not to be used to record the length of an object or specific body part.

## 2.4 UML Class Diagram

The following figure represents the data hierarchy using a UML 2.0 class diagram. The diagram displays data groups and data elements, together with their names, data types and multiplicities. Data elements are displayed as attributes; data groups are displayed as classes; their label names are represented as association role names. Association role names are only displayed if they differ from the associated class name. When a data element has a choice of data types, the data type of the attribute that represents it is an abstract interface class generalised from the individual data types. The diagram shows the data hierarchy excluding the details of participation. The default multiplicity is 1..1.

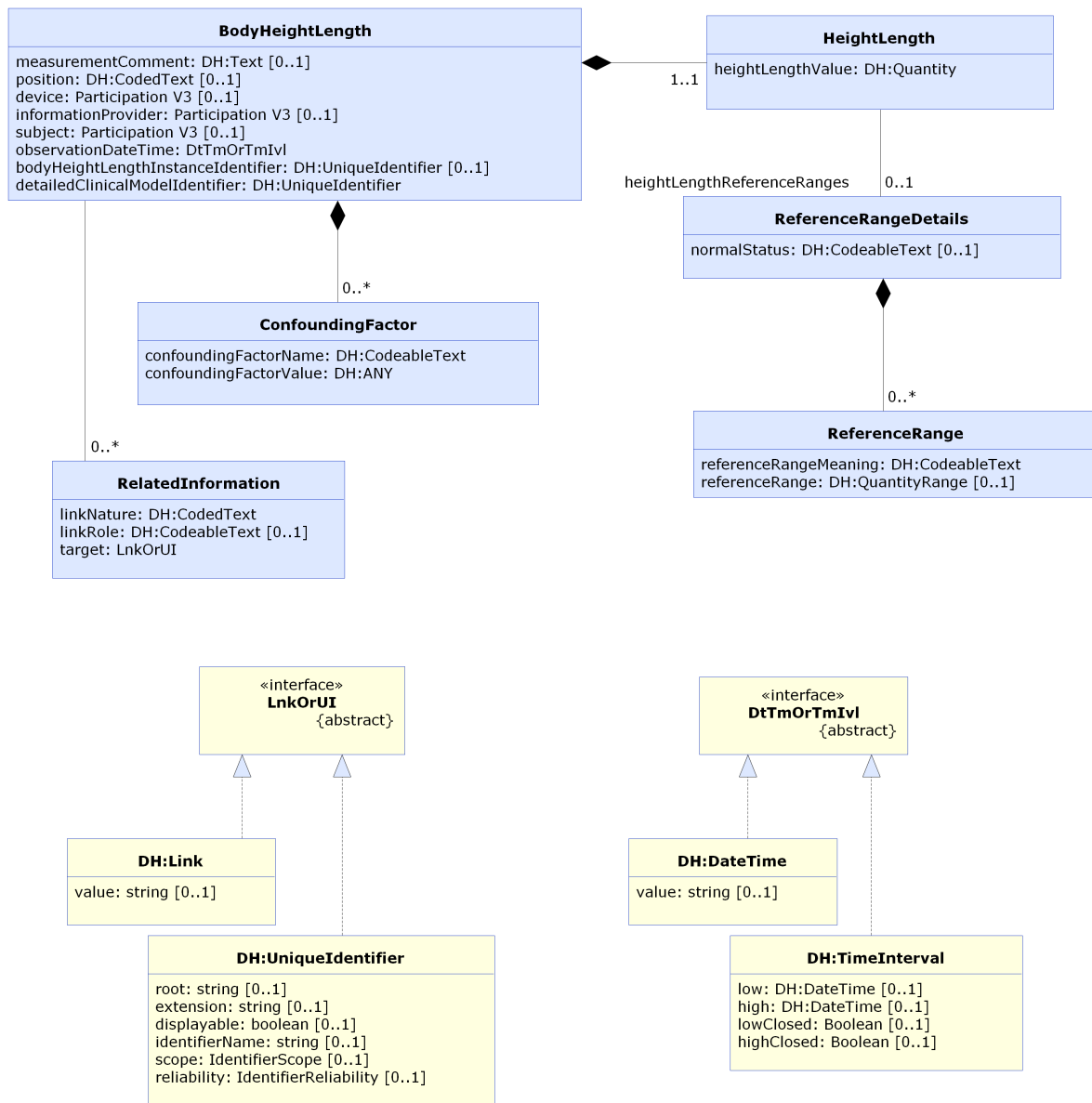


Figure 2.1. Body Height/Length UML Class Diagram

## 2.5 BODY HEIGHT/LENGTH

### Identification

<b>Label</b>	BODY HEIGHT/LENGTH
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16123
<b>OID</b>	1.2.36.1.2001.1001.101.102.16123

### Definition










<b>Definition</b>	Details pertinent to the physical measurement of the height or length of a person.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	Body Height Body Length Stature
<b>Notes</b>	<p>Body height, or length, is measured from crown of head to sole of foot. Body height is measured with the person in a standing position and body length in a recumbent position.</p> <p>The height, together with the weight, of a subject of care enables derivation of body mass index (BMI) and body surface area (BSA) which are key observations.</p>

### Data Hierarchy



#### Note

Items below whose text is lighter (mid-blue and mid-grey) are technical identifiers whose purpose is to facilitate interoperability, sharing of data and secondary use. Typically, such identifiers will be generated internally by systems and not displayed to users since they rarely have clinical significance.

 BODY HEIGHT/LENGTH			
	HEIGHT/LENGTH		1..1
	Height/Length Value		1..1
	Height/Length Reference Ranges (REFERENCE RANGE DETAILS)		0..1
	Normal Status		0..1
	REFERENCE RANGE		0..*
	Reference Range Meaning		1..1
	Reference Range		0..1
	Comment (Measurement Comment)		0..1

	Position	0..1
	CONFOUNDING FACTOR	0..*
	Confounding Factor Name	1..1
	Confounding Factor Value	1..1
	DEVICE	0..1
	INFORMATION PROVIDER	0..1
	SUBJECT	0..1
 	Observation DateTime	1..1
	Body Height/Length Instance Identifier	0..1
	RELATED INFORMATION	0..*
	Link Nature	1..1
	Link Role	0..1
 	Target	1..1
	Detailed Clinical Model Identifier	1..1



## 2.6 HEIGHT/LENGTH

### Identification


<b>Label</b>	HEIGHT/LENGTH
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16120
<b>OID</b>	1.2.36.1.2001.1001.101.102.16120

### Definition



<b>Definition</b>	The length of the body from crown of head to sole of foot, with reference range information.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	BODY HEIGHT/LENGTH	1..1

#### Children

Data Type	Name	Occurrences
	Height/Length Value	1..1
	Height/Length Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..1

## 2.7 Height/Length Value

### Identification

<b>Label</b>	Height/Length Value
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16120
<b>OID</b>	1.2.36.1.2001.1001.101.103.16120

### Definition


<b>Definition</b>	The length of the body from crown of head to sole of foot.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Quantity

### Usage

<b>Conditions of Use</b>	The unit of measurement <b>SHALL</b> be centimetres.
<b>Conditions of Use Source</b>	Australian Digital Health Agency
<b>Examples</b>	1) 54.3 cm 2) 172 cm

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	HEIGHT/LENGTH	1..1

## 2.8 REFERENCE RANGE DETAILS

### Identification

Label	Height/Length Reference Ranges
Metadata Type	Data Group
Identifier	DG-16325
OID	1.2.36.1.2001.1001.101.102.16325

### Definition


Definition	One or more reference ranges applicable to <i>Height/Length Value</i> .
Definition Source	Australian Digital Health Agency
Synonymous Names	
Notes	<p>A reference range is particular to the patient and context, e.g. sex, age, and any other factor that affects ranges.</p> <p>May be used to represent normal, therapeutic, dangerous, critical and other such clinical ranges.</p>

### Usage



Conditions of Use	At least one child of this data group <b>SHALL</b> be instantiated.
Conditions of Use Source	Australian Digital Health Agency

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	HEIGHT/LENGTH	0..1

#### Children

Data Type	Name	Occurrences
	Normal Status	0..1
	REFERENCE RANGE	0..*

## 2.9 Normal Status

### Identification

<b>Label</b>	Normal Status
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-11028
<b>OID</b>	1.2.36.1.2001.1001.101.103.11028

### Definition

<b>Definition</b>	An indication of the degree of diagnostically significant abnormality of the value, based on available clinical information (including but not limited to the reference range).
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	The term “normal” is <b>not</b> statistical normality, but rather what would normally be considered healthy for the individual concerned. As such, this data element represents the health risk for the individual, which is indicated by the observation or measurement and the nature and criticality of that health risk.
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>1</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.


### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Below normal</li> <li>2) Above normal</li> <li>3) Critically low</li> <li>4) Critically high</li> </ol>
-----------------	---

<sup>1</sup> <http://www.hl7.org/oid/index.cfm>

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	Height/Length Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..1

## 2.10 REFERENCE RANGE

### Identification

<b>Label</b>	REFERENCE RANGE
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-11024
<b>OID</b>	1.2.36.1.2001.1001.101.102.11024

### Definition


<b>Definition</b>	A named range to be associated with any quantity datum.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	The obligations on this data group imply that if this data group occurs only once, the <i>Reference Range</i> data element is optional, otherwise it is essential.

### Usage



<b>Conditions of Use</b>	If this data group occurs only once, its contents <b>SHALL</b> span the observed value.
	If this data group occurs more than once, its contents <b>SHOULD</b> include all of the ranges in a single set.
	If this data group occurs more than once, the <i>Reference Range</i> data element is <b>ESSENTIAL</b> .
	All reference ranges <b>SHALL</b> come from the one set of reference ranges.
<b>Conditions of Use Source</b>	Australian Digital Health Agency

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	Height/Length Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..*

#### Children

Data Type	Name	Occurrences
	<a href="#">Reference Range Meaning</a>	1..1
	<a href="#">Reference Range</a>	0..1

## 2.11 Reference Range Meaning

### Identification

<b>Label</b>	Reference Range Meaning
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16574
<b>OID</b>	1.2.36.1.2001.1001.101.103.16574

### Definition


<b>Definition</b>	Term whose value indicates the meaning of this range.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>2</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Normal</li> <li>2) Critical</li> <li>3) Therapeutic</li> </ol>
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REFERENCE RANGE	1..1

<sup>2</sup> <http://www.hl7.org/oid/index.cfm>

## 2.12 Reference Range

### Identification

<b>Label</b>	Reference Range
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-11024
<b>OID</b>	1.2.36.1.2001.1001.101.103.11024

### Definition


<b>Definition</b>	The data range for the associated <i>Reference Range Meaning</i> data element.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	QuantityRange

### Usage

<b>Examples</b>	<ul style="list-style-type: none"> <li>1) 15 - 58 g/L</li> <li>2) &lt; 15 mmol/L</li> <li>3) 2.5 - 3.5 kg</li> <li>4) 23 - 45 cm</li> </ul>
-----------------	---

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">REFERENCE RANGE</a>	0..1



## 2.13 Measurement Comment

### Identification

<b>Label</b>	Comment
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-15600
<b>OID</b>	1.2.36.1.2001.1001.101.103.15600

### Definition


<b>Definition</b>	Additional comments relevant to the observation.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Text</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	BODY HEIGHT/LENGTH	0..1

## 2.14 Position

### Identification

<b>Label</b>	Position
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16051
<b>OID</b>	1.2.36.1.2001.1001.101.103.16051

### Definition


<b>Definition</b>	Position of the person when measured.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Position Values</a>

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodedText</a> .
-----------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY HEIGHT/LENGTH</a>	0..1

## 2.15 Position Values

### Identification

<b>Label</b>	Position Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16051
<b>OID</b>	1.2.36.1.2001.1001.101.104.16051

### Definition


<b>Definition</b>	The set of values of <i>Position</i> .
<b>Definition Source</b>	Australian Digital Health Agency

### Value Domain

<b>Source</b>	OpenEHR
<b>Permissible Values</b>	<p>1, Standing      Height is measured standing on both feet with weight distributed evenly, heels together and both buttocks and heels in contact with a vertical back board.</p> <p>2, Lying      Length is measured in a fully extended, recumbent position with the legs extended and feet flexed.</p>

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">Position</a>	1..1

## 2.16 CONFOUNDING FACTOR

### Identification


<b>Label</b>	CONFOUNDING FACTOR
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16051
<b>OID</b>	1.2.36.1.2001.1001.101.102.16051

### Definition



<b>Definition</b>	An issue or factor of note that may have impacted on the measurement made during the examination.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	BODY HEIGHT/LENGTH	0..*

#### Children

Data Type	Name	Occurrences
	Confounding Factor Name	1..1
	Confounding Factor Value	1..1

## 2.17 Confounding Factor Name

### Identification

<b>Label</b>	Confounding Factor Name
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16950
<b>OID</b>	1.2.36.1.2001.1001.101.103.16950

### Definition


<b>Definition</b>	The name of a confounding factor of an observation.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>3</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodeableText</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">CONFOUNDING FACTOR</a>	1..1

<sup>3</sup> <http://www.hl7.org/oid/index.cfm>

## 2.18 Confounding Factor Value

### Identification

<b>Label</b>	Confounding Factor Value
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16955
<b>OID</b>	1.2.36.1.2001.1001.101.103.16955

### Definition


<b>Definition</b>	The value of a confounding factor of an observation.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	Typically values will be codes, measurements or text. Other types of value are possible.
<b>Data Type</b>	

### Usage

<b>Examples</b>	1) Subject of care agitated and restless
-----------------	--

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	CONFOUNDING FACTOR	1..1

## 2.19 DEVICE

### Identification

Label	DEVICE
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition


Definition	Description of the device used to measure body height or length.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Notes	Typically this will be a machine used by the information provider.

### Usage

Conditions of Use	<p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <p>Additional obligation and occurrence constraints:</p> <ul style="list-style-type: none"> <li>Participation Period is <b>PROHIBITED</b>.</li> <li>LOCATION OF PARTICIPATION is <b>PROHIBITED</b>.</li> <li>ADDRESS is <b>PROHIBITED</b>.</li> <li>ELECTRONIC COMMUNICATION DETAIL is <b>PROHIBITED</b>.</li> <li>ENTITLEMENT is <b>PROHIBITED</b>.</li> <li>Qualifications is <b>PROHIBITED</b>.</li> </ul> <p>Other additional constraints:</p> <ul style="list-style-type: none"> <li>Participation Type <b>SHALL</b> have an implementation-specific value equivalent to “Device”.</li> <li>Role <b>SHALL</b> have an implementation-specific value equivalent to “Not Applicable”.</li> <li>PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a DEVICE.</li> </ul>
Conditions of Use Source	Australian Digital Health Agency

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY HEIGHT/LENGTH</a>	0..1



## 2.20 INFORMATION PROVIDER

### Identification

Label	INFORMATION PROVIDER
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition

Definition	Details pertinent to the identification of the source of the body height/length information.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Notes	<p>This does not have to be a person and, in particular, does not have to be a healthcare provider. Types of sources include:</p> <ul style="list-style-type: none"> <li>• the subject of care;</li> <li>• a subject of care agent, e.g. parent, guardian;</li> <li>• the clinician; and</li> <li>• a device or software.</li> </ul> <p>If a device makes the measurement and creates the observation record, the device is the information provider. If a person makes the measurement using a device and the person creates the observation record, the person is the information provider.</p>

### Usage

Conditions of Use	<p>This <b>SHALL NOT</b> be used unless the provider of the information is not the <i>Composer/Author</i> of the enclosing Structured Document.</p> <p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <p><b>Constraints applicable when the information provider is a person NOT acting as a healthcare provider.</b></p> <p>Additional obligation and occurrence constraints:</p> <ul style="list-style-type: none"> <li>• LOCATION OF PARTICIPATION is <b>PROHIBITED</b>.</li> <li>• EMPLOYMENT DETAIL is <b>PROHIBITED</b>.</li> <li>• DEMOGRAPHIC DATA is <b>PROHIBITED</b>.</li> <li>• ENTITLEMENT is <b>PROHIBITED</b>.</li> <li>• Qualifications is <b>PROHIBITED</b>.</li> </ul>
-------------------	---

Other additional constraints:

- Participation Type **SHALL** have an implementation-specific value equivalent to “Information Provider”.
- Role **SHOULD** have an implementation-specific value equivalent to “Authorised Representative” or “Nominated Representative”. However, other similar values **MAY** be appropriate.
- PERSON OR ORGANISATION OR DEVICE **SHALL** be instantiated as PERSON.

**Constraints applicable when the information provider is a person acting as a healthcare provider.**

Additional obligation and occurrence constraints:

- LOCATION OF PARTICIPATION is **PROHIBITED**.
- Entity Identifier is **ESSENTIAL**.
- Relationship to Subject of Care is **PROHIBITED**.
- DEMOGRAPHIC DATA is **PROHIBITED**.

Other additional constraints:

- Participation Type **SHALL** have an implementation-specific value equivalent to “Information Provider”.
- Role **SHOULD** have a value chosen from [1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1 \[ABS2009\]](#). However, if a suitable value in this set cannot be found, then any code set that is both registered with HL7 and is publicly available **MAY** be used.
- PERSON OR ORGANISATION OR DEVICE **SHALL** be instantiated as PERSON.

**Constraints applicable when the information provider is a device.**

Additional obligation and occurrence constraints:

- LOCATION OF PARTICIPATION is **PROHIBITED**.
- ADDRESS is **PROHIBITED**.
- ELECTRONIC COMMUNICATION DETAIL is **PROHIBITED**.
- ENTITLEMENT is **PROHIBITED**.
- Qualifications is **PROHIBITED**.


Other additional constraints:

- Participation Type **SHALL** have an implementation-specific value equivalent to “Information Provider”.
- Role **SHALL** have an implementation-specific value equivalent to “Not Applicable”.
- PERSON OR ORGANISATION OR DEVICE **SHALL** be instantiated as DEVICE.
- ENTITLEMENT is **PROHIBITED**.
- Qualifications is **PROHIBITED**.

Conditions of Use Source Australian Digital Health Agency

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	BODY HEIGHT/LENGTH	0..1

## 2.21 SUBJECT

### Identification

Label	SUBJECT
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition


Definition	The person about whom the body height/length information is being recorded.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Scope	Generally only used when the recorder needs to make it explicit. Otherwise, the subject of the enclosing Structured Document is assumed.
Scope Source	Australian Digital Health Agency

### Usage

Conditions of Use	<p>This <b>SHALL NOT</b> be used unless the subject of the information is not the <i>Subject of Care</i> of the enclosing Structured Document.</p> <p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to “Subject”.</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON.</li> </ul>
Conditions of Use Source	Australian Digital Health Agency

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	BODY HEIGHT/LENGTH	0..1

## 2.22 Observation DateTime

### Identification

Label	Observation DateTime
Metadata Type	Data Element
Identifier	DE-15561
OID	1.2.36.1.2001.1001.101.103.15561

### Definition


Definition	Date, and optionally time, when an observation is clinically significant to the condition of the subject of the observation.
Definition Source	Australian Digital Health Agency
Synonymous Names	Clinically Significant DateTime Effective DateTime
Notes	<p>Associated with every observation of a subject are two different times that often, but not always, coincide, and are consequently often conflated: the time that the activity of observing occurred (the time the subject <b>was</b> observed, the <i>measuring time</i>), and the time that the subject was the way it looked (the time the subject was <b>as</b> observed, the <i>state time</i>.)</p> <p>Generally, there is no delay between a person being in a state, and an observation of the person being in that state. For example, if a pulse of 72 bpm is recorded at 13:45 on 12 February 2015, one can assume that the heart rate was 72 bpm at that time. (Pulse is a surrogate for heart rate.) In such cases the <i>measuring time</i> and the <i>state time</i> are the same.</p> <p>Sometimes, when there is a delay between the time the person is in a state and the time when they are measured, the delay is important. For example, if a sample is taken from a person and its testing is completed over a period of days, the test results will provide information about the state of the person at the time the sample was taken, not the time the test was completed.</p> <p>The clinically significant time in all clinical observations is the time that the person was as observed, the <i>state time</i>. In observations involving specimens, the time that the specimen was taken is the closest practicable proxy for the <i>state time</i>.</p> <p>The meaning of <i>Observation DateTime</i> is always the time that the person was <b>as</b> observed.</p> <p>This approach follows that of openEHR.</p>
Data Type	DateTime TimeInterval

### Usage

Examples	Please see <a href="#">DateTime</a> in <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information on specifying a date or time (or both).
----------	---

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY HEIGHT/LENGTH</a>	1..1

## 2.23 Body Height/Length Instance Identifier

### Identification

<b>Label</b>	Body Height/Length Instance Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16732
<b>OID</b>	1.2.36.1.2001.1001.101.103.16732

### Definition


<b>Definition</b>	A globally unique identifier for each instance of a <i>Body Height/Length</i> observation.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelIdentifier</a> .
-----------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY HEIGHT/LENGTH</a>	0..1

## 2.24 RELATED INFORMATION

### Identification


<b>Label</b>	RELATED INFORMATION
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16692
<b>OID</b>	1.2.36.1.2001.1001.101.102.16692

### Definition




<b>Definition</b>	A link to another instance of a detailed clinical model (DCM) or a document containing instances of DCMs.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	Links may be to structures inside the enclosing document or inside other documents.

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	BODY HEIGHT/LENGTH	0..*

#### Children

Data Type	Name	Occurrences
	Link Nature	1..1
	Link Role	0..1
	Target	1..1



## 2.25 Link Nature

### Identification

<b>Label</b>	Link Nature
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16698
<b>OID</b>	1.2.36.1.2001.1001.101.103.16698

### Definition


<b>Definition</b>	The general semantic category of the relationship between this instance of this detailed clinical model (DCM), i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	This is one of two attributes that together communicate the semantics of the relationship between the source and target DCMs or document. This attribute is intended to be a coarse-grained category that can be used to enable interoperability between sender and receiver.
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Link Nature Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) is related to</li> <li>2) is confirmed by or authorised by</li> <li>3) is related to the same problem or health issue</li> </ol>
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	1..1

## 2.26 Link Nature Values

### Identification

<b>Label</b>	Link Nature Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16698
<b>OID</b>	1.2.36.1.2001.1001.101.104.16698
<b>External Identifier</b>	LINK_NATURE

### Definition

<b>Definition</b>	Set of values for the general semantic category of the relationship between this instance of this DCM, i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency

### Value Domain


<b>Source</b>	ISO 13606-3:2009	
<b>Permissible Values</b>	The permissible values are those specified in Termlist LINK_NATURE in <a href="#">ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]</a> . They are listed here.	
	LINK-A0, is related to	A generic category for any Link, the details of which will be given by the value of Link Role.
	LINK-B0, is confirmed by or authorised by	The target link contains [an instance of a DCM or document] that acts as the legal or clinical basis for the activity documented in the source [DCM instance], or is a declaration of intent to provide (or not to provide) requested care. This Link is to be used to connect two [DCM instances or DCM and document], as opposed to the inclusion of a corroborating or authorising participant as an identified party within a single [DCM instance or document].
	LINK-C0, is related to the same problem or health issue	The target [instance of a DCM or document] documents health or health care that pertains to the same clinical situation as the source [DCM instance]. One of the two might be defining a problem for which the other is a manifestation, or the relationship might for example be cause and effect, stages in an evolving clinical history, a different interpretation of an observation, a clinical indication or contraindication.
	LINK-D0, is related to the same care plan, act or episode	The source and the target [instances of DCM or documents] are each documenting parts of the same care plan, act or episode. One of the two might be defining the same care plan, act or episode, or both might be related milestones.

LINK-E0, is a related documentation

The target [instance of a DCM or document] is an alternative documentary form of the source [DCM instance], such as re-expression of the same clinical information or additional supplementary explanatory information.

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">Link Nature</a>	1..1

## 2.27 Link Role

### Identification

<b>Label</b>	Link Role
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16699
<b>OID</b>	1.2.36.1.2001.1001.101.103.16699

### Definition


<b>Definition</b>	The detailed semantic description of the relationship between this instance of this DCM (i.e. the source), and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	<p>This is one of two attributes that together communicate the semantics of the relationship between the source and target DCMs. This attribute provides for a specific description of the actual role played by the target in relation to the source.</p> <p>This attribute may be populated from any suitable terminology, and therefore might support human readership better than interoperable automated processing.</p>
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<a href="#">Link Role Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) unspecified link</li> <li>2) suggests</li> <li>3) endorses</li> <li>4) evidence for</li> <li>5) outcome</li> <li>6) is documented by</li> <li>7) excerpts</li> </ol>
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	0..1

## 2.28 Link Role Values

### Identification

<b>Label</b>	Link Role Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16699
<b>OID</b>	1.2.36.1.2001.1001.101.104.16699
<b>External Identifier</b>	LINK_ROLE

### Definition

<b>Definition</b>	Set of values for the detailed semantic description of the relationship between this instance of this DCM, i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Context</b>	These values are used within the context of the value of the <i>Link Nature</i> data element. They provide greater specificity and may be selected more for human readership than for interoperable automated processing.
<b>Context Source</b>	Australian Digital Health Agency

### Value Domain

<b>Source</b>	ISO 13606-3:2009										
<b>Permissible Values</b>	<p>Values <b>SHOULD</b> be from Termlist LINK_ROLE in ISO 13606-3:2009 <a href="#">[ISO2009a]</a>.</p> <p>Values <b>MAY</b> be from any suitable terminology.</p> <p>Some values from Termlist LINK_ROLE in <a href="#">ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]</a> are:</p> <table border="1"> <tr> <td>LINK-A1, unspecified link</td> <td>The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.</td> </tr> <tr> <td>LINK-A2, suggests</td> <td>The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.</td> </tr> <tr> <td>LINK-B1, endorses</td> <td>The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.</td> </tr> <tr> <td>LINK-C3, evidence for</td> <td>The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.</td> </tr> <tr> <td>LINK-D1, outcome</td> <td>The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.</td> </tr> </table>	LINK-A1, unspecified link	The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.	LINK-A2, suggests	The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.	LINK-B1, endorses	The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.	LINK-C3, evidence for	The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.	LINK-D1, outcome	The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.
LINK-A1, unspecified link	The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.										
LINK-A2, suggests	The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.										
LINK-B1, endorses	The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.										
LINK-C3, evidence for	The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.										
LINK-D1, outcome	The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.										


LINK-E1, documented by	A clinical situation documented in the source component is more formally documented in the target component.
LINK-E4, excerpts	The source component is an extract (copy) of part or all of the information contained within the target component.

## Usage

<b>Conditions of Use</b>	Each of the link terms in LINK_ROLE from ISO 13606-3:2009 is a subcategory of a corresponding term in <i>Link Nature Values</i> , where that correspondence is indicated by the first letter after the code string “LINK-”. For example the term LINK-A1 is a subcategory of term LINK-A0. If a term in this list is used for the <i>Link Role</i> data element, the appropriate corresponding value <b>SHALL</b> be used from <i>Link Nature Values</i> .
<b>Conditions of Use Source</b>	ISO 13606-3:2009

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Link Role	1..1

## 2.29 Target

### Identification

<b>Label</b>	Target
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16700
<b>OID</b>	1.2.36.1.2001.1001.101.103.16700

### Definition


<b>Definition</b>	The “linked to” or identified information.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Link UniquelIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Link</a> , and <a href="#">UniquelIdentifier</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	1..1

## 2.30 Detailed Clinical Model Identifier

### Identification

<b>Label</b>	Detailed Clinical Model Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16693
<b>OID</b>	1.2.36.1.2001.1001.101.103.16693

### Definition


<b>Definition</b>	A globally unique identifier for this detailed clinical model.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Conditions of Use</b>	The value of this item <b>SHALL</b> be either the default value or a semantically equivalent value from an appropriate code system.
<b>Conditions of Use Source</b>	Australian Digital Health Agency
<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelIdentifier</a> .
<b>Default Value</b>	1.2.36.1.2001.1001.101.102.16123

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	BODY HEIGHT/LENGTH	1..1



# 3 Body Weight Detailed Clinical Model

This chapter describes version 3.1 of the *Body Weight* Detailed Clinical Model.

## 3.1 Purpose

To record the body weight of a person. Body weight can be measured as actual or approximate.

## 3.2 Use

To be used for recording the body weight of a person. This DCM is used to record the whole weight of the body regardless of the physical incompleteness of the body, for example when an individual is missing a body part.

## 3.3 Misuse

Not to be used to record the weight of an object or body part.

## 3.4 UML Class Diagram

The following figure represents the data hierarchy using a UML 2.0 class diagram. The diagram displays data groups and data elements, together with their names, data types and multiplicities. Data elements are displayed as attributes; data groups are displayed as classes; their label names are represented as association role names. Association role names are only displayed if they differ from the associated class name. When a data element has a choice of data types, the data type of the attribute that represents it is an abstract interface class generalised from the individual data types. The diagram shows the data hierarchy excluding the details of participation. The default multiplicity is 1..1.

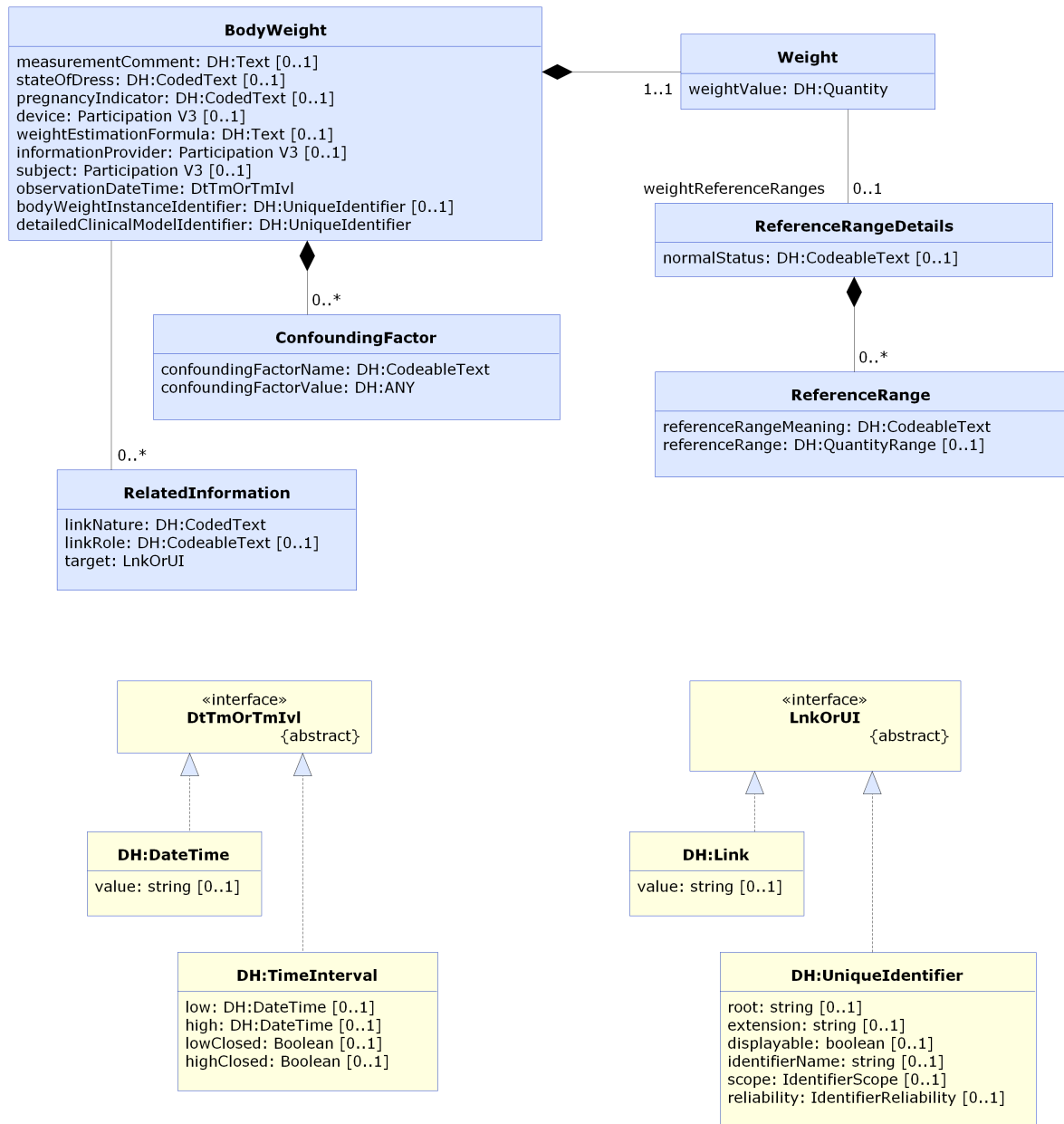


Figure 3.1. Body Weight UML Class Diagram

## 3.5 BODY WEIGHT

### Identification

Label	BODY WEIGHT
Metadata Type	Data Group
Identifier	DG-16124
OID	1.2.36.1.2001.1001.101.102.16124

### Definition

Definition	Details pertinent to the physical measurement of the weight (mass) of a person.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Notes	The height, together with the weight, of a subject of care enables derivation of body mass index (BMI) and body surface area (BSA) which are key observations.

### Usage








Conditions of Use	In prescriptions: For children 12 years old or younger, a body weight <b>SHALL</b> be recorded.
Conditions of Use Source	Australian Digital Health Agency



















## Data Hierarchy



#### Note

Items below whose text is lighter (mid-blue and mid-grey) are technical identifiers whose purpose is to facilitate interoperability, sharing of data and secondary use. Typically, such identifiers will be generated internally by systems and not displayed to users since they rarely have clinical significance.

 BODY WEIGHT				
		WEIGHT		1..1
			Weight Value	1..1
			Weight Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..1
			Normal Status	0..1
			<a href="#">REFERENCE RANGE</a>	0..*
			Reference Range Meaning	1..1

				Reference Range	0..1
		Comment (Measurement Comment)			0..1
		State of Dress			0..1
		Pregnancy Indicator			0..1
		CONFOUNDING FACTOR			0..*
			Confounding Factor Name		1..1
			Confounding Factor Value		1..1
		DEVICE			0..1
		Weight Estimation Formula			0..1
		INFORMATION PROVIDER			0..1
		SUBJECT			0..1
		Observation DateTime			1..1
		Body Weight Instance Identifier			0..1
		RELATED INFORMATION			0..*
			Link Nature		1..1
			Link Role		0..1
			Target		1..1
		Detailed Clinical Model Identifier			1..1

## 3.6 WEIGHT

### Identification


<b>Label</b>	WEIGHT
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16125
<b>OID</b>	1.2.36.1.2001.1001.101.102.16125

### Definition



<b>Definition</b>	The weight of the person, with reference range information.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	BODY WEIGHT	1..1

#### Children

Data Type	Name	Occurrences
	Weight Value	1..1
	Weight Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..1

## 3.7 Weight Value

### Identification

<b>Label</b>	Weight Value
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16125
<b>OID</b>	1.2.36.1.2001.1001.101.103.16125

### Definition


<b>Definition</b>	The weight of the person.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	Person Weight
<b>Data Type</b>	Quantity

### Usage

<b>Conditions of Use</b>	The unit of measurement <b>SHALL</b> be kilograms.
<b>Conditions of Use Source</b>	Australian Digital Health Agency
<b>Examples</b>	1) 73 kg 2) 0.89 kg

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	WEIGHT	1..1

## 3.8 REFERENCE RANGE DETAILS

### Identification

Label	Weight Reference Ranges
Metadata Type	Data Group
Identifier	DG-16325
OID	1.2.36.1.2001.1001.101.102.16325

### Definition


Definition	One or more reference ranges applicable to <i>Weight Value</i> .
Definition Source	Australian Digital Health Agency
Synonymous Names	
Notes	<p>A reference range is particular to the patient and context, e.g. sex, age, and any other factor that affects ranges.</p> <p>May be used to represent normal, therapeutic, dangerous, critical and other such clinical ranges.</p>

### Usage



Conditions of Use	At least one child of this data group <b>SHALL</b> be instantiated.
Conditions of Use Source	Australian Digital Health Agency

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	WEIGHT	0..1

#### Children

Data Type	Name	Occurrences
	Normal Status	0..1
	REFERENCE RANGE	0..*

## 3.9 Normal Status

### Identification

<b>Label</b>	Normal Status
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-11028
<b>OID</b>	1.2.36.1.2001.1001.101.103.11028

### Definition

<b>Definition</b>	An indication of the degree of diagnostically significant abnormality of the value, based on available clinical information (including but not limited to the reference range).
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	The term “normal” is <b>not</b> statistical normality, but rather what would normally be considered healthy for the individual concerned. As such, this data element represents the health risk for the individual, which is indicated by the observation or measurement and the nature and criticality of that health risk.
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>1</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage


<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Below normal</li> <li>2) Above normal</li> <li>3) Critically low</li> <li>4) Critically high</li> </ol>
-----------------	---

<sup>1</sup> <http://www.hl7.org/oid/index.cfm>



# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	Weight Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..1

## 3.10 REFERENCE RANGE

### Identification

<b>Label</b>	REFERENCE RANGE
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-11024
<b>OID</b>	1.2.36.1.2001.1001.101.102.11024

### Definition


<b>Definition</b>	A named range to be associated with any quantity datum.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	The obligations on this data group imply that if this data group occurs only once, the <i>Reference Range</i> data element is optional, otherwise it is essential.

### Usage



<b>Conditions of Use</b>	<p>If this data group occurs only once, its contents <b>SHALL</b> span the observed value.</p> <p>If this data group occurs more than once, its contents <b>SHOULD</b> include all of the ranges in a single set.</p> <p>If this data group occurs more than once, the <i>Reference Range</i> data element is <b>ESSENTIAL</b>.</p> <p>All reference ranges <b>SHALL</b> come from the one set of reference ranges.</p>
<b>Conditions of Use Source</b>	Australian Digital Health Agency

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	Weight Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..*

#### Children

Data Type	Name	Occurrences
	<a href="#">Reference Range Meaning</a>	1..1
	<a href="#">Reference Range</a>	0..1

## 3.11 Reference Range Meaning

### Identification

<b>Label</b>	Reference Range Meaning
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16574
<b>OID</b>	1.2.36.1.2001.1001.101.103.16574

### Definition


<b>Definition</b>	Term whose value indicates the meaning of this range.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>2</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Normal</li> <li>2) Critical</li> <li>3) Therapeutic</li> </ol>
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REFERENCE RANGE	1..1

<sup>2</sup> <http://www.hl7.org/oid/index.cfm>

## 3.12 Reference Range

### Identification

<b>Label</b>	Reference Range
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-11024
<b>OID</b>	1.2.36.1.2001.1001.101.103.11024

### Definition


<b>Definition</b>	The data range for the associated <i>Reference Range Meaning</i> data element.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	QuantityRange

### Usage

<b>Examples</b>	<ul style="list-style-type: none"> <li>1) 15 - 58 g/L</li> <li>2) &lt; 15 mmol/L</li> <li>3) 2.5 - 3.5 kg</li> <li>4) 23 - 45 cm</li> </ul>
-----------------	---

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	REFERENCE RANGE	0..1

## 3.13 Measurement Comment

### Identification

<b>Label</b>	Comment
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-15600
<b>OID</b>	1.2.36.1.2001.1001.101.103.15600

### Definition


<b>Definition</b>	Additional comments relevant to the observation.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Text</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	BODY WEIGHT	0..1

## 3.14 State of Dress

### Identification

<b>Label</b>	State of Dress
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16845
<b>OID</b>	1.2.36.1.2001.1001.101.103.16845

### Definition


<b>Definition</b>	Description of the state of dress of the person at the time of weighing.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">State of Dress Values</a>

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodedText</a> .
-----------------	---

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY WEIGHT</a>	0..1

## 3.15 State of Dress Values

### Identification

<b>Label</b>	State of Dress Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16844
<b>OID</b>	1.2.36.1.2001.1001.101.104.16844

### Definition


<b>Definition</b>	The set of values of <i>State of Dress</i> .
<b>Definition Source</b>	Australian Digital Health Agency

### Value Domain

<b>Source</b>	Australian Digital Health Agency	
<b>Permissible Values</b>	1, Lightly clothed/underwear	Clothing which will not add to weight significantly.
	2, Naked	Without any clothes.
	3, Fully clothed, including shoes	Clothing which may add significantly to weight, including shoes.
	4, Nappy/diaper	Wearing only a nappy - can add significant weight.

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	State of Dress	1..1

## 3.16 Pregnancy Indicator

### Identification

<b>Label</b>	Pregnancy Indicator
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16846
<b>OID</b>	1.2.36.1.2001.1001.101.103.16846
<b>External Identifier</b>	METeOR data element concept identifier: 303957

### Definition


<b>Definition</b>	Whether or not the person is pregnant at the time of the observation.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Pregnancy Indicator Values</a>

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodedText</a> .
-----------------	---

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY WEIGHT</a>	0..1



## 3.17 Pregnancy Indicator Values

### Identification

<b>Label</b>	Pregnancy Indicator Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16917
<b>OID</b>	1.2.36.1.2001.1001.101.104.16917

### Definition


<b>Definition</b>	The set of values of <i>Pregnancy Indicator</i> .
<b>Definition Source</b>	Australian Digital Health Agency

### Value Domain

<b>Source</b>	SNOMED CT-AU
<b>Permissible Values</b>	77386006 Patient currently pregnant (finding) 60001007 Not pregnant (finding)

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">Pregnancy Indicator</a>	1..1

## 3.18 CONFOUNDING FACTOR

### Identification


<b>Label</b>	CONFOUNDING FACTOR
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16051
<b>OID</b>	1.2.36.1.2001.1001.101.102.16051

### Definition



<b>Definition</b>	An issue or factor of note that may have impacted on the measurement made during the examination.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	BODY WEIGHT	0..*

#### Children

Data Type	Name	Occurrences
	Confounding Factor Name	1..1
	Confounding Factor Value	1..1

## 3.19 Confounding Factor Name

### Identification

<b>Label</b>	Confounding Factor Name
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16950
<b>OID</b>	1.2.36.1.2001.1001.101.103.16950

### Definition


<b>Definition</b>	The name of a confounding factor of an observation.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>3</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodeableText</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">CONFOUNDING FACTOR</a>	1..1

<sup>3</sup> <http://www.hl7.org/oid/index.cfm>

## 3.20 Confounding Factor Value

### Identification

<b>Label</b>	Confounding Factor Value
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16955
<b>OID</b>	1.2.36.1.2001.1001.101.103.16955

### Definition


<b>Definition</b>	The value of a confounding factor of an observation.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	Typically values will be codes, measurements or text. Other types of value are possible.
<b>Data Type</b>	

### Usage

<b>Examples</b>	1) Subject of care agitated and restless
-----------------	--

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	CONFOUNDING FACTOR	1..1

## 3.21 DEVICE

### Identification

Label	DEVICE
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition


Definition	Description of the device used to measure the body weight.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Notes	Typically this will be a machine used by the information provider.

### Usage

Conditions of Use	<p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <p>Additional obligation and occurrence constraints:</p> <ul style="list-style-type: none"> <li>• Participation Period is <b>PROHIBITED</b>.</li> <li>• LOCATION OF PARTICIPATION is <b>PROHIBITED</b>.</li> <li>• ADDRESS is <b>PROHIBITED</b>.</li> <li>• ELECTRONIC COMMUNICATION DETAIL is <b>PROHIBITED</b>.</li> <li>• ENTITLEMENT is <b>PROHIBITED</b>.</li> <li>• Qualifications is <b>PROHIBITED</b>.</li> </ul> <p>Other additional constraints:</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to “Device”.</li> <li>• Role <b>SHALL</b> have an implementation-specific value equivalent to “Not Applicable”.</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a DEVICE.</li> </ul>
Conditions of Use Source	Australian Digital Health Agency

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	BODY WEIGHT	0..1

## 3.22 Weight Estimation Formula

### Identification

<b>Label</b>	Weight Estimation Formula
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16847
<b>OID</b>	1.2.36.1.2001.1001.101.103.16847

### Definition


<b>Definition</b>	Formula used to calculate the estimated weight.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Text</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	BODY WEIGHT	0..1

## 3.23 INFORMATION PROVIDER

### Identification

Label	INFORMATION PROVIDER
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition

Definition	Details pertinent to the identification of the source of the body weight information.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Notes	<p>This does not have to be a person and, in particular, does not have to be a healthcare provider. Types of sources include:</p> <ul style="list-style-type: none"> <li>• the subject of care;</li> <li>• a subject of care agent, e.g. parent, guardian;</li> <li>• the clinician; and</li> <li>• a device or software.</li> </ul> <p>If a device makes the measurement and creates the observation record, the device is the information provider. If a person makes the measurement using a device and the person creates the observation record, the person is the information provider.</p>

### Usage

Conditions of Use	<p>This <b>SHALL NOT</b> be used unless the provider of the information is not the <i>Composer/Author</i> of the enclosing Structured Document.</p> <p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <p><b>Constraints applicable when the information provider is a person NOT acting as a healthcare provider.</b></p> <p>Additional obligation and occurrence constraints:</p> <ul style="list-style-type: none"> <li>• LOCATION OF PARTICIPATION is <b>PROHIBITED</b>.</li> <li>• EMPLOYMENT DETAIL is <b>PROHIBITED</b>.</li> <li>• DEMOGRAPHIC DATA is <b>PROHIBITED</b>.</li> <li>• ENTITLEMENT is <b>PROHIBITED</b>.</li> <li>• Qualifications is <b>PROHIBITED</b>.</li> </ul>
-------------------	---



Other additional constraints:

- Participation Type **SHALL** have an implementation-specific value equivalent to “Information Provider”.
- Role **SHOULD** have an implementation-specific value equivalent to “Authorised Representative” or “Nominated Representative”. However, other similar values **MAY** be appropriate.
- PERSON OR ORGANISATION OR DEVICE **SHALL** be instantiated as PERSON.

**Constraints applicable when the information provider is a person acting as a healthcare provider.**

Additional obligation and occurrence constraints:

- LOCATION OF PARTICIPATION is **PROHIBITED**.
- Entity Identifier is **ESSENTIAL**.
- Relationship to Subject of Care is **PROHIBITED**.
- DEMOGRAPHIC DATA is **PROHIBITED**.

Other additional constraints:

- Participation Type **SHALL** have an implementation-specific value equivalent to “Information Provider”.
- Role **SHOULD** have a value chosen from [1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1 \[ABS2009\]](#). However, if a suitable value in this set cannot be found, then any code set that is both registered with HL7 and is publicly available **MAY** be used.
- PERSON OR ORGANISATION OR DEVICE **SHALL** be instantiated as PERSON.

**Constraints applicable when the information provider is a device.**

Additional obligation and occurrence constraints:


- LOCATION OF PARTICIPATION is **PROHIBITED**.
- ADDRESS is **PROHIBITED**.
- ELECTRONIC COMMUNICATION DETAIL is **PROHIBITED**.
- ENTITLEMENT is **PROHIBITED**.
- Qualifications is **PROHIBITED**.

Other additional constraints:

- Participation Type **SHALL** have an implementation-specific value equivalent to “Information Provider”.
- Role **SHALL** have an implementation-specific value equivalent to “Not Applicable”.
- PERSON OR ORGANISATION OR DEVICE **SHALL** be instantiated as DEVICE.
- ENTITLEMENT is **PROHIBITED**.
- Qualifications is **PROHIBITED**.

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY WEIGHT</a>	0..1

## 3.24 SUBJECT

### Identification

Label	SUBJECT
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition


Definition	The person about whom the body weight information is being recorded.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Scope	Generally only used when the recorder needs to make it explicit. Otherwise, the subject of the enclosing Structured Document is assumed.
Scope Source	Australian Digital Health Agency

### Usage

Conditions of Use	<p>This <b>SHALL NOT</b> be used unless the subject of the information is not the <i>Subject of Care</i> of the enclosing Structured Document.</p> <p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Subject".</li> <li>PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON.</li> </ul>
Conditions of Use Source	Australian Digital Health Agency

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	BODY WEIGHT	0..1

## 3.25 Observation DateTime

### Identification

<b>Label</b>	Observation DateTime
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-15561
<b>OID</b>	1.2.36.1.2001.1001.101.103.15561

### Definition


<b>Definition</b>	Date, and optionally time, when an observation is clinically significant to the condition of the subject of the observation.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	Clinically Significant DateTime Effective DateTime
<b>Notes</b>	<p>Associated with every observation of a subject are two different times that often, but not always, coincide, and are consequently often conflated: the time that the activity of observing occurred (the time the subject <b>was</b> observed, the <i>measuring time</i>), and the time that the subject was the way it looked (the time the subject was <b>as</b> observed, the <i>state time</i>.)</p> <p>Generally, there is no delay between a person being in a state, and an observation of the person being in that state. For example, if a pulse of 72 bpm is recorded at 13:45 on 12 February 2015, one can assume that the heart rate was 72 bpm at that time. (Pulse is a surrogate for heart rate.) In such cases the <i>measuring time</i> and the <i>state time</i> are the same.</p> <p>Sometimes, when there is a delay between the time the person is in a state and the time when they are measured, the delay is important. For example, if a sample is taken from a person and its testing is completed over a period of days, the test results will provide information about the state of the person at the time the sample was taken, not the time the test was completed.</p> <p>The clinically significant time in all clinical observations is the time that the person was as observed, the <i>state time</i>. In observations involving specimens, the time that the specimen was taken is the closest practicable proxy for the <i>state time</i>.</p> <p>The meaning of <i>Observation DateTime</i> is always the time that the person was <b>as</b> observed.</p> <p>This approach follows that of openEHR.</p>
<b>Data Type</b>	DateTime TimeInterval

### Usage

<b>Examples</b>	Please see <a href="#">DateTime</a> in <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information on specifying a date or time (or both).
-----------------	---

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	BODY WEIGHT	1..1

## 3.26 Body Weight Instance Identifier

### Identification

<b>Label</b>	Body Weight Instance Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16735
<b>OID</b>	1.2.36.1.2001.1001.101.103.16735

### Definition


<b>Definition</b>	A globally unique identifier for each instance of a <i>Body Weight</i> observation.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelIdentifier</a> .
-----------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY WEIGHT</a>	0..1



## 3.28 Link Nature

### Identification

<b>Label</b>	Link Nature
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16698
<b>OID</b>	1.2.36.1.2001.1001.101.103.16698

### Definition


<b>Definition</b>	The general semantic category of the relationship between this instance of this detailed clinical model (DCM), i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	This is one of two attributes that together communicate the semantics of the relationship between the source and target DCMs or document. This attribute is intended to be a coarse-grained category that can be used to enable interoperability between sender and receiver.
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Link Nature Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) is related to</li> <li>2) is confirmed by or authorised by</li> <li>3) is related to the same problem or health issue</li> </ol>
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	1..1



## 3.29 Link Nature Values

### Identification

<b>Label</b>	Link Nature Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16698
<b>OID</b>	1.2.36.1.2001.1001.101.104.16698
<b>External Identifier</b>	LINK_NATURE

### Definition

<b>Definition</b>	Set of values for the general semantic category of the relationship between this instance of this DCM, i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency


### Value Domain

<b>Source</b>	ISO 13606-3:2009	
<b>Permissible Values</b>	The permissible values are those specified in Termlist LINK_NATURE in <a href="#">ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]</a> . They are listed here.	
	LINK-A0, is related to	A generic category for any Link, the details of which will be given by the value of Link Role.
	LINK-B0, is confirmed by or authorised by	The target link contains [an instance of a DCM or document] that acts as the legal or clinical basis for the activity documented in the source [DCM instance], or is a declaration of intent to provide (or not to provide) requested care. This Link is to be used to connect two [DCM instances or DCM and document], as opposed to the inclusion of a corroborating or authorising participant as an identified party within a single [DCM instance or document].
	LINK-C0, is related to the same problem or health issue	The target [instance of a DCM or document] documents health or health care that pertains to the same clinical situation as the source [DCM instance]. One of the two might be defining a problem for which the other is a manifestation, or the relationship might for example be cause and effect, stages in an evolving clinical history, a different interpretation of an observation, a clinical indication or contraindication.
	LINK-D0, is related to the same care plan, act or episode	The source and the target [instances of DCM or documents] are each documenting parts of the same care plan, act or episode. One of the two might be defining the same care plan, act or episode, or both might be related milestones.

	LINK-E0, is a related documentation	The target [instance of a DCM or document] is an alternative documentary form of the source [DCM instance], such as re-expression of the same clinical information or additional supplementary explanatory information.
--	-------------------------------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">Link Nature</a>	1..1

## 3.30 Link Role

### Identification

<b>Label</b>	Link Role
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16699
<b>OID</b>	1.2.36.1.2001.1001.101.103.16699

### Definition


<b>Definition</b>	The detailed semantic description of the relationship between this instance of this DCM (i.e. the source), and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	<p>This is one of two attributes that together communicate the semantics of the relationship between the source and target DCMs. This attribute provides for a specific description of the actual role played by the target in relation to the source.</p> <p>This attribute may be populated from any suitable terminology, and therefore might support human readership better than interoperable automated processing.</p>
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<a href="#">Link Role Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) unspecified link</li> <li>2) suggests</li> <li>3) endorses</li> <li>4) evidence for</li> <li>5) outcome</li> <li>6) is documented by</li> <li>7) excerpts</li> </ol>
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	0..1

## 3.31 Link Role Values

### Identification

<b>Label</b>	Link Role Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16699
<b>OID</b>	1.2.36.1.2001.1001.101.104.16699
<b>External Identifier</b>	LINK_ROLE

### Definition

<b>Definition</b>	Set of values for the detailed semantic description of the relationship between this instance of this DCM, i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Context</b>	These values are used within the context of the value of the <i>Link Nature</i> data element. They provide greater specificity and may be selected more for human readership than for interoperable automated processing.
<b>Context Source</b>	Australian Digital Health Agency

### Value Domain

<b>Source</b>	ISO 13606-3:2009										
<b>Permissible Values</b>	<p>Values <b>SHOULD</b> be from Termlist LINK_ROLE in ISO 13606-3:2009 <a href="#">[ISO2009a]</a>.</p> <p>Values <b>MAY</b> be from any suitable terminology.</p> <p>Some values from Termlist LINK_ROLE in <a href="#">ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]</a> are:</p> <table border="1"> <tr> <td>LINK-A1, unspecified link</td> <td>The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.</td> </tr> <tr> <td>LINK-A2, suggests</td> <td>The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.</td> </tr> <tr> <td>LINK-B1, endorses</td> <td>The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.</td> </tr> <tr> <td>LINK-C3, evidence for</td> <td>The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.</td> </tr> <tr> <td>LINK-D1, outcome</td> <td>The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.</td> </tr> </table>	LINK-A1, unspecified link	The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.	LINK-A2, suggests	The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.	LINK-B1, endorses	The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.	LINK-C3, evidence for	The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.	LINK-D1, outcome	The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.
LINK-A1, unspecified link	The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.										
LINK-A2, suggests	The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.										
LINK-B1, endorses	The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.										
LINK-C3, evidence for	The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.										
LINK-D1, outcome	The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.										


LINK-E1, documented by	A clinical situation documented in the source component is more formally documented in the target component.
LINK-E4, excerpts	The source component is an extract (copy) of part or all of the information contained within the target component.

## Usage

<b>Conditions of Use</b>	Each of the link terms in LINK_ROLE from ISO 13606-3:2009 is a subcategory of a corresponding term in <i>Link Nature Values</i> , where that correspondence is indicated by the first letter after the code string "LINK-". For example the term LINK-A1 is a subcategory of term LINK-A0. If a term in this list is used for the <i>Link Role</i> data element, the appropriate corresponding value <b>SHALL</b> be used from <i>Link Nature Values</i> .
<b>Conditions of Use Source</b>	ISO 13606-3:2009

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">Link Role</a>	1..1

## 3.32 Target

### Identification

<b>Label</b>	Target
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16700
<b>OID</b>	1.2.36.1.2001.1001.101.103.16700

### Definition


<b>Definition</b>	The “linked to” or identified information.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Link UniquelIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Link</a> , and <a href="#">UniquelIdentifier</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	1..1

## 3.33 Detailed Clinical Model Identifier

### Identification

<b>Label</b>	Detailed Clinical Model Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16693
<b>OID</b>	1.2.36.1.2001.1001.101.103.16693

### Definition


<b>Definition</b>	A globally unique identifier for this detailed clinical model.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Conditions of Use</b>	The value of this item <b>SHALL</b> be either the default value or a semantically equivalent value from an appropriate code system.
<b>Conditions of Use Source</b>	Australian Digital Health Agency
<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelIdentifier</a> .
<b>Default Value</b>	1.2.36.1.2001.1001.101.102.16124

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	BODY WEIGHT	1..1

*This page is intentionally left blank.*



# 4 Body Part Circumference Detailed Clinical Model

This chapter describes version 1.1 of the *Body Part Circumference* Detailed Clinical Model.

## 4.1 Purpose

To record the circumference of a specified body part of a person.

## 4.2 Use

To be used for recording the measurement of the circumference of a body part. This DCM can be used for typical circumference measurement, for example, by a fitness instructor in a gymnasium; self-measurement by a person at home; or a clinical measurement by a clinician in a clinic or hospital.

## 4.3 UML Class Diagram

The following figure represents the data hierarchy using a UML 2.0 class diagram. The diagram displays data groups and data elements, together with their names, data types and multiplicities. Data elements are displayed as attributes; data groups are displayed as classes; their label names are represented as association role names. Association role names are only displayed if they differ from the associated class name. When a data element has a choice of data types, the data type of the attribute that represents it is an abstract interface class generalised from the individual data types. The diagram shows the data hierarchy excluding the details of participation. The default multiplicity is 1..1.

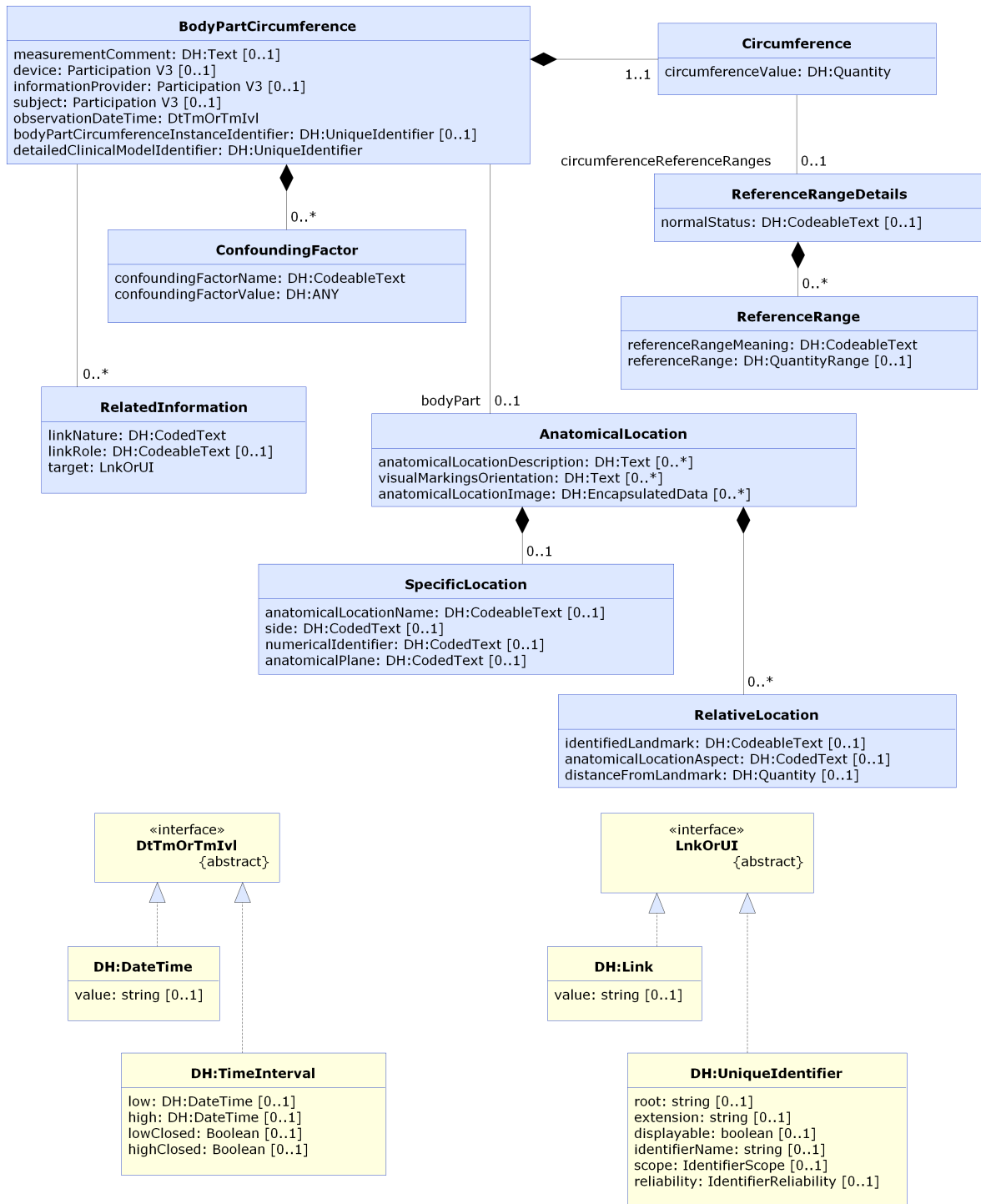


Figure 4.1. Body Part Circumference UML Class Diagram

## 4.4 BODY PART CIRCUMFERENCE

### Identification

<b>Label</b>	BODY PART CIRCUMFERENCE
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16808
<b>OID</b>	1.2.36.1.2001.1001.101.102.16808

### Definition











<b>Definition</b>	Details pertinent to the physical measurement of the circumference of a specified body part of a person.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	Examples of body parts include the head, a limb or the waist.


























### Data Hierarchy



#### Note

Items below whose text is lighter (mid-blue and mid-grey) are technical identifiers whose purpose is to facilitate interoperability, sharing of data and secondary use. Typically, such identifiers will be generated internally by systems and not displayed to users since they rarely have clinical significance.

 BODY PART CIRCUMFERENCE			
		Body Part (ANATOMICAL LOCATION)	0..1
		SPECIFIC LOCATION	0..1
		Anatomical Location Name	0..1
		Side	0..1
		Numerical Identifier	0..1
		Anatomical Plane	0..1
		RELATIVE LOCATION	0..*
		Identified Landmark	0..1
		Anatomical Location Aspect	0..1

			Distance From Landmark	0..1
			Anatomical Location Description	0..*
			Visual Markings/Orientation	0..*
			Anatomical Location Image	0..*
		CIRCUMFERENCE		1..1
			Circumference Value	1..1
			Circumference Reference Ranges (REFERENCE RANGE DETAILS)	0..1
			Normal Status	0..1
			REFERENCE RANGE	0..*
			Reference Range Meaning	1..1
			Reference Range	0..1
		Comment (Measurement Comment)		0..1
		CONFOUNDING FACTOR		0..*
			Confounding Factor Name	1..1
			Confounding Factor Value	1..1
		DEVICE		0..1
		INFORMATION PROVIDER		0..1
		SUBJECT		0..1
	 	Observation DateTime		1..1
		Body Part Circumference Instance Identifier		0..1
		RELATED INFORMATION		0..*
			Link Nature	1..1
			Link Role	0..1
	 	Target		1..1

		Detailed Clinical Model Identifier	1..1
--	---	------------------------------------	------

# 4.5 ANATOMICAL LOCATION

## Identification


<b>Label</b>	Body Part
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16150
<b>OID</b>	1.2.36.1.2001.1001.101.102.16150

## Definition






<b>Definition</b>	The anatomical site whose circumference is measured.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	BODY PART CIRCUMFERENCE	0..1

### Children

Data Type	Name	Occurrences
	SPECIFIC LOCATION	0..1
	RELATIVE LOCATION	0..*
	Anatomical Location Description	0..*
	Visual Markings/Orientation	0..*
	Anatomical Location Image	0..*

## 4.6 SPECIFIC LOCATION

### Identification


<b>Label</b>	SPECIFIC LOCATION
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16151
<b>OID</b>	1.2.36.1.2001.1001.101.102.16151

### Definition





<b>Definition</b>	Specific and identified anatomical location.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Body Part ( <a href="#">ANATOMICAL LOCATION</a> )	0..1

### Children

Data Type	Name	Occurrences
	<a href="#">Anatomical Location Name</a>	0..1
	<a href="#">Side</a>	0..1
	<a href="#">Numerical Identifier</a>	0..1
	<a href="#">Anatomical Plane</a>	0..1

## 4.7 Anatomical Location Name

### Identification

<b>Label</b>	Anatomical Location Name
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16153
<b>OID</b>	1.2.36.1.2001.1001.101.103.16153

### Definition


<b>Definition</b>	The name of the anatomical location.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<a href="#">Body Structure Foundation Reference Set</a>

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodeableText</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">SPECIFIC LOCATION</a>	0..1



## 4.8 Body Structure Foundation Reference Set

### Identification

<b>Label</b>	Body Structure Foundation Reference Set
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16152
<b>OID</b>	1.2.36.1.2001.1001.101.104.16152
<b>External Identifier</b>	SNOMED CT-AU Concept Id: 32570061000036105

### Definition


<b>Definition</b>	The set of values for named anatomical locations.
<b>Definition Source</b>	Australian Digital Health Agency

### Value Domain

<b>Source</b>	SNOMED CT-AU
---------------	--------------

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
 001011001	<a href="#">Anatomical Location Name</a>	1..1

## 4.9 Side

### Identification

<b>Label</b>	Side
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16336
<b>OID</b>	1.2.36.1.2001.1001.101.103.16336

### Definition


<b>Definition</b>	The laterality of the anatomical location.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	Laterality
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Laterality Reference Set</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Right</li> <li>2) Left</li> <li>3) Bilateral</li> </ol>
-----------------	---

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">SPECIFIC LOCATION</a>	0..1

## 4.10 Laterality Reference Set

### Identification

<b>Label</b>	Laterality Reference Set
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16312
<b>OID</b>	1.2.36.1.2001.1001.101.104.16312
<b>External Identifier</b>	SNOMED CT-AU Concept Id: 32570611000036103

### Definition


<b>Definition</b>	The set of values for identifying the laterality of an anatomical location.
<b>Definition Source</b>	Australian Digital Health Agency

### Value Domain

<b>Source</b>	SNOMED CT-AU
---------------	--------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
 001011001	Side	1..1

## 4.11 Numerical Identifier

### Identification

<b>Label</b>	Numerical Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16338
<b>OID</b>	1.2.36.1.2001.1001.101.103.16338

### Definition


<b>Definition</b>	An ordinal number that identifies the specific anatomical site from multiple sites.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>1</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Conditions of Use</b>	This <b>SHALL</b> be an ordinal number between first and eighteenth.
<b>Conditions of Use Source</b>	Australian Digital Health Agency
<b>Examples</b>	<ol style="list-style-type: none"> <li>1) First, as in 'first rib'.</li> <li>2) Second, as in 'second toe'.</li> <li>3) Third, as in 'third lumbar vertebra'.</li> </ol>

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">SPECIFIC LOCATION</a>	0..1

<sup>1</sup> <http://www.hl7.org/oid/index.cfm>

## 4.12 Anatomical Plane

### Identification

<b>Label</b>	Anatomical Plane
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16340
<b>OID</b>	1.2.36.1.2001.1001.101.103.16340

### Definition


<b>Definition</b>	Line describing the position of a vertical anatomical plane in the body.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>2</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Midline</li> <li>2) Midclavicular</li> <li>3) Midaxillary</li> <li>4) Midscapular</li> </ol>
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	SPECIFIC LOCATION	0..1

<sup>2</sup> <http://www.hl7.org/oid/index.cfm>

## 4.13 RELATIVE LOCATION

### Identification


<b>Label</b>	RELATIVE LOCATION
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16341
<b>OID</b>	1.2.36.1.2001.1001.101.102.16341

### Definition




<b>Definition</b>	Qualifier(s) to identify a non-specific location.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	<p>An example is: 5cm (distance) inferior (aspect) to the tibial tuberosity (landmark).</p> <p>There may be more than one relative location required to provide a cross reference.</p>

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	Body Part ( <a href="#">ANATOMICAL LOCATION</a> )	0..*

#### Children

Data Type	Name	Occurrences
	<a href="#">Identified Landmark</a>	0..1
	<a href="#">Anatomical Location Aspect</a>	0..1
	<a href="#">Distance From Landmark</a>	0..1

## 4.14 Identified Landmark

### Identification

<b>Label</b>	Identified Landmark
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16343
<b>OID</b>	1.2.36.1.2001.1001.101.103.16343

### Definition


<b>Definition</b>	Identified anatomical landmark from which to specify the relative anatomical location.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>3</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodeableText</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATIVE LOCATION</a>	0..1

<sup>3</sup> <http://www.hl7.org/oid/index.cfm>

## 4.15 Anatomical Location Aspect

### Identification

<b>Label</b>	Anatomical Location Aspect
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16345
<b>OID</b>	1.2.36.1.2001.1001.101.103.16345

### Definition

<b>Definition</b>	Qualifier to identify which direction the anatomical location is in relation to the identified landmark.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>4</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage


<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Medial to: Relative location medial to the landmark.</li> <li>2) Lateral to: Relative location lateral to the landmark.</li> <li>3) Superior to: Relative location superior to the landmark.</li> <li>4) Inferior to: Relative location inferior to the landmark.</li> <li>5) Anterior to: Relative location anterior to the landmark.</li> <li>6) Posterior to: Relative location posterior to the landmark.</li> <li>7) Below: Relative location below the landmark.</li> <li>8) Above: Relative location above the landmark.</li> <li>9) Inferolateral to: Relative location inferior and lateral to the landmark.</li> <li>10) Superolateral to: Relative location superior and lateral to the landmark.</li> <li>11) Inferomedial to: Relative location inferior and medial to the landmark.</li> <li>12) Superomedial to: Relative location superior and medial to the landmark.</li> </ol>
-----------------	---

<sup>4</sup> <http://www.hl7.org/oid/index.cfm>



# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	RELATIVE LOCATION	0..1

## 4.16 Distance From Landmark

### Identification

<b>Label</b>	Distance From Landmark
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16346
<b>OID</b>	1.2.36.1.2001.1001.101.103.16346

### Definition


<b>Definition</b>	Distance of location from the identified landmark.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Quantity

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Quantity</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATIVE LOCATION</a>	0..1

## 4.17 Anatomical Location Description

### Identification

<b>Label</b>	Anatomical Location Description
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16319
<b>OID</b>	1.2.36.1.2001.1001.101.103.16319

### Definition


<b>Definition</b>	Description of the anatomical location.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Text</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Body Part ( <a href="#">ANATOMICAL LOCATION</a> )	0..*

## 4.18 Visual Markings/Orientation

### Identification

<b>Label</b>	Visual Markings/Orientation
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16407
<b>OID</b>	1.2.36.1.2001.1001.101.103.16407

### Definition


<b>Definition</b>	Description of any visual markings used to orientate the viewer.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) External reference points</li> <li>2) Special sutures</li> <li>3) Ink markings</li> </ol>
-----------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Body Part ( <a href="#">ANATOMICAL LOCATION</a> )	0..*

## 4.19 Anatomical Location Image

### Identification

<b>Label</b>	Anatomical Location Image
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16199
<b>OID</b>	1.2.36.1.2001.1001.101.103.16199

### Definition


<b>Definition</b>	An image or images used to identify a location.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Context</b>	This element is intended to be an image, e.g. a photo of the anatomical site such as a wound on the leg.
<b>Context Source</b>	Australian Digital Health Agency
<b>Data Type</b>	EncapsulatedData

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">EncapsulatedData</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Body Part ( <a href="#">ANATOMICAL LOCATION</a> )	0..*

## 4.20 CIRCUMFERENCE

### Identification


<b>Label</b>	CIRCUMFERENCE
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16330
<b>OID</b>	1.2.36.1.2001.1001.101.102.16330

### Definition



<b>Definition</b>	The circumference of the specified body part, with reference range information.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY PART CIRCUMFERENCE</a>	1..1

### Children

Data Type	Name	Occurrences
	<a href="#">Circumference Value</a>	1..1
	Circumference Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..1

## 4.21 Circumference Value

### Identification

<b>Label</b>	Circumference Value
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16330
<b>OID</b>	1.2.36.1.2001.1001.101.103.16330

### Definition


<b>Definition</b>	The circumference of the body part.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Quantity

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Quantity</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">CIRCUMFERENCE</a>	1..1

## 4.22 REFERENCE RANGE DETAILS

### Identification

<b>Label</b>	Circumference Reference Ranges
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16325
<b>OID</b>	1.2.36.1.2001.1001.101.102.16325

### Definition


<b>Definition</b>	One or more reference ranges applicable to <i>Circumference Value</i> .
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	<p>A reference range is particular to the patient and context, e.g. sex, age, and any other factor that affects ranges.</p> <p>May be used to represent normal, therapeutic, dangerous, critical and other such clinical ranges.</p>

### Usage



<b>Conditions of Use</b>	At least one child of this data group <b>SHALL</b> be instantiated.
<b>Conditions of Use Source</b>	Australian Digital Health Agency

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	CIRCUMFERENCE	0..1

#### Children

Data Type	Name	Occurrences
	Normal Status	0..1
	REFERENCE RANGE	0..*



## 4.23 Normal Status

### Identification

Label	Normal Status
Metadata Type	Data Element
Identifier	DE-11028
OID	1.2.36.1.2001.1001.101.103.11028

### Definition

Definition	An indication of the degree of diagnostically significant abnormality of the value, based on available clinical information (including but not limited to the reference range).
Definition Source	Australian Digital Health Agency
Synonymous Names	
Notes	The term “normal” is <b>not</b> statistical normality, but rather what would normally be considered healthy for the individual concerned. As such, this data element represents the health risk for the individual, which is indicated by the observation or measurement and the nature and criticality of that health risk.
Data Type	CodeableText
Value Domain	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>5</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.


### Usage

Examples	<ol style="list-style-type: none"> <li>1) Below normal</li> <li>2) Above normal</li> <li>3) Critically low</li> <li>4) Critically high</li> </ol>
----------	---

<sup>5</sup> <http://www.hl7.org/oid/index.cfm>

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	Circumference Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..1

## 4.24 REFERENCE RANGE

### Identification

Label	REFERENCE RANGE
Metadata Type	Data Group
Identifier	DG-11024
OID	1.2.36.1.2001.1001.101.102.11024

### Definition


Definition	A named range to be associated with any quantity datum.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Notes	The obligations on this data group imply that if this data group occurs only once, the <i>Reference Range</i> data element is optional, otherwise it is essential.

### Usage



Conditions of Use	If this data group occurs only once, its contents <b>SHALL</b> span the observed value.
	If this data group occurs more than once, its contents <b>SHOULD</b> include all of the ranges in a single set.
	If this data group occurs more than once, the <i>Reference Range</i> data element is <b>ESSENTIAL</b> .
	All reference ranges <b>SHALL</b> come from the one set of reference ranges.
Conditions of Use Source	Australian Digital Health Agency

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	Circumference Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..*

#### Children

Data Type	Name	Occurrences
	<a href="#">Reference Range Meaning</a>	1..1
	<a href="#">Reference Range</a>	0..1

## 4.25 Reference Range Meaning

### Identification

<b>Label</b>	Reference Range Meaning
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16574
<b>OID</b>	1.2.36.1.2001.1001.101.103.16574

### Definition


<b>Definition</b>	Term whose value indicates the meaning of this range.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>6</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Normal</li> <li>2) Critical</li> <li>3) Therapeutic</li> </ol>
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REFERENCE RANGE	1..1

<sup>6</sup> <http://www.hl7.org/oid/index.cfm>

## 4.26 Reference Range

### Identification

<b>Label</b>	Reference Range
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-11024
<b>OID</b>	1.2.36.1.2001.1001.101.103.11024

### Definition


<b>Definition</b>	The data range for the associated <i>Reference Range Meaning</i> data element.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	QuantityRange

### Usage

<b>Examples</b>	1) 15 - 58 g/L
	2) < 15 mmol/L
	3) 2.5 - 3.5 kg
	4) 23 - 45 cm

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REFERENCE RANGE	0..1

## 4.27 Measurement Comment

### Identification

<b>Label</b>	Comment
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-15600
<b>OID</b>	1.2.36.1.2001.1001.101.103.15600

### Definition


<b>Definition</b>	Additional comments relevant to the observation.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Text</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY PART CIRCUMFERENCE</a>	0..1

## 4.28 CONFOUNDING FACTOR

### Identification


<b>Label</b>	CONFOUNDING FACTOR
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16051
<b>OID</b>	1.2.36.1.2001.1001.101.102.16051

### Definition



<b>Definition</b>	An issue or factor of note that may have impacted on the measurement made during the examination.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY PART CIRCUMFERENCE</a>	0..*

### Children

Data Type	Name	Occurrences
	<a href="#">Confounding Factor Name</a>	1..1
	<a href="#">Confounding Factor Value</a>	1..1

## 4.29 Confounding Factor Name

### Identification

<b>Label</b>	Confounding Factor Name
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16950
<b>OID</b>	1.2.36.1.2001.1001.101.103.16950

### Definition


<b>Definition</b>	The name of a confounding factor of an observation.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>7</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodeableText</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">CONFOUNDING FACTOR</a>	1..1

<sup>7</sup> <http://www.hl7.org/oid/index.cfm>



## 4.30 Confounding Factor Value

### Identification

<b>Label</b>	Confounding Factor Value
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16955
<b>OID</b>	1.2.36.1.2001.1001.101.103.16955

### Definition


<b>Definition</b>	The value of a confounding factor of an observation.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	Typically values will be codes, measurements or text. Other types of value are possible.
<b>Data Type</b>	

### Usage

<b>Examples</b>	1) Subject of care agitated and restless
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	CONFOUNDING FACTOR	1..1

## 4.31 DEVICE

### Identification

Label	DEVICE
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition


Definition	Description of the device used to measure the circumference of the body part.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Notes	Typically this will be a machine used by the information provider.

### Usage

Conditions of Use	<p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <p>Additional obligation and occurrence constraints:</p> <ul style="list-style-type: none"> <li>• Participation Period is <b>PROHIBITED</b>.</li> <li>• LOCATION OF PARTICIPATION is <b>PROHIBITED</b>.</li> <li>• ADDRESS is <b>PROHIBITED</b>.</li> <li>• ELECTRONIC COMMUNICATION DETAIL is <b>PROHIBITED</b>.</li> <li>• ENTITLEMENT is <b>PROHIBITED</b>.</li> <li>• Qualifications is <b>PROHIBITED</b>.</li> </ul> <p>Other additional constraints:</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to “Device”.</li> <li>• Role <b>SHALL</b> have an implementation-specific value equivalent to “Not Applicable”.</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a DEVICE.</li> </ul>
Conditions of Use Source	Australian Digital Health Agency

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	BODY PART CIRCUMFERENCE	0..1

## 4.32 INFORMATION PROVIDER

### Identification

Label	INFORMATION PROVIDER
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition

Definition	Details pertinent to the identification of the source of the body part circumference information.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Notes	<p>This does not have to be a person and, in particular, does not have to be a healthcare provider. Types of sources include:</p> <ul style="list-style-type: none"> <li>• the subject of care;</li> <li>• a subject of care agent, e.g. parent, guardian;</li> <li>• the clinician; and</li> <li>• a device or software.</li> </ul> <p>If a device makes the measurement and creates the observation record, the device is the information provider. If a person makes the measurement using a device and the person creates the observation record, the person is the information provider.</p>

### Usage

Conditions of Use	<p>This <b>SHALL NOT</b> be used unless the provider of the information is not the <i>Composer/Author</i> of the enclosing Structured Document.</p> <p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <p><b>Constraints applicable when the information provider is a person NOT acting as a healthcare provider.</b></p> <p>Additional obligation and occurrence constraints:</p> <ul style="list-style-type: none"> <li>• LOCATION OF PARTICIPATION is <b>PROHIBITED</b>.</li> <li>• EMPLOYMENT DETAIL is <b>PROHIBITED</b>.</li> <li>• DEMOGRAPHIC DATA is <b>PROHIBITED</b>.</li> <li>• ENTITLEMENT is <b>PROHIBITED</b>.</li> </ul>
-------------------	---

- Qualifications is **PROHIBITED**.

Other additional constraints:

- Participation Type **SHALL** have an implementation-specific value equivalent to “Information Provider”.
- Role **SHOULD** have an implementation-specific value equivalent to “Authorised Representative” or “Nominated Representative”. However, other similar values **MAY** be appropriate.
- PERSON OR ORGANISATION OR DEVICE **SHALL** be instantiated as PERSON.

**Constraints applicable when the information provider is a person acting as a healthcare provider.**

Additional obligation and occurrence constraints:

- LOCATION OF PARTICIPATION is **PROHIBITED**.
- Entity Identifier is **ESSENTIAL**.
- Relationship to Subject of Care is **PROHIBITED**.
- DEMOGRAPHIC DATA is **PROHIBITED**.

Other additional constraints:

- Participation Type **SHALL** have an implementation-specific value equivalent to “Information Provider”.
- Role **SHOULD** have a value chosen from [1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1 \[ABS2009\]](#). However, if a suitable value in this set cannot be found, then any code set that is both registered with HL7 and is publicly available **MAY** be used.
- PERSON OR ORGANISATION OR DEVICE **SHALL** be instantiated as PERSON.

**Constraints applicable when the information provider is a device.**

Additional obligation and occurrence constraints:

- LOCATION OF PARTICIPATION is **PROHIBITED**.
- ADDRESS is **PROHIBITED**.
- ELECTRONIC COMMUNICATION DETAIL is **PROHIBITED**.
- ENTITLEMENT is **PROHIBITED**.
- Qualifications is **PROHIBITED**.

Other additional constraints:


- Participation Type **SHALL** have an implementation-specific value equivalent to “Information Provider”.
- Role **SHALL** have an implementation-specific value equivalent to “Not Applicable”.
- PERSON OR ORGANISATION OR DEVICE **SHALL** be instantiated as DEVICE.
- ENTITLEMENT is **PROHIBITED**.
- Qualifications is **PROHIBITED**.

**Conditions of Use Source**

Australian Digital Health Agency

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY PART CIRCUMFERENCE</a>	0..1

## 4.33 SUBJECT

### Identification

Label	SUBJECT
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition


Definition	The person about whom the body part circumference information is being recorded.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Scope	Generally only used when the recorder needs to make it explicit. Otherwise, the subject of the enclosing Structured Document is assumed.
Scope Source	Australian Digital Health Agency

### Usage

Conditions of Use	<p>This <b>SHALL NOT</b> be used unless the subject of the information is not the <i>Subject of Care</i> of the enclosing Structured Document.</p> <p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to “Subject”.</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON.</li> </ul>
Conditions of Use Source	Australian Digital Health Agency

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	BODY PART CIRCUMFERENCE	0..1

## 4.34 Observation DateTime

### Identification

Label	Observation DateTime
Metadata Type	Data Element
Identifier	DE-15561
OID	1.2.36.1.2001.1001.101.103.15561

### Definition

Definition	Date, and optionally time, when an observation is clinically significant to the condition of the subject of the observation.
Definition Source	Australian Digital Health Agency
Synonymous Names	Clinically Significant DateTime Effective DateTime
Notes	<p>Associated with every observation of a subject are two different times that often, but not always, coincide, and are consequently often conflated: the time that the activity of observing occurred (the time the subject <b>was</b> observed, the <i>measuring time</i>), and the time that the subject was the way it looked (the time the subject was <b>as</b> observed, the <i>state time</i>.)</p> <p>Generally, there is no delay between a person being in a state, and an observation of the person being in that state. For example, if a pulse of 72 bpm is recorded at 13:45 on 12 February 2015, one can assume that the heart rate was 72 bpm at that time. (Pulse is a surrogate for heart rate.) In such cases the <i>measuring time</i> and the <i>state time</i> are the same.</p> <p>Sometimes, when there is a delay between the time the person is in a state and the time when they are measured, the delay is important. For example, if a sample is taken from a person and its testing is completed over a period of days, the test results will provide information about the state of the person at the time the sample was taken, not the time the test was completed.</p> <p>The clinically significant time in all clinical observations is the time that the person was as observed, the <i>state time</i>. In observations involving specimens, the time that the specimen was taken is the closest practicable proxy for the <i>state time</i>.</p> <p>The meaning of <i>Observation DateTime</i> is always the time that the person was <b>as</b> observed.</p> <p>This approach follows that of openEHR.</p>
Data Type	DateTime TimeInterval


### Usage

Examples	Please see <a href="#">DateTime</a> in <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information on specifying a date or time (or both).
----------	---



# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	BODY PART CIRCUMFERENCE	1..1

## 4.35 Body Part Circumference Instance Identifier

### Identification

<b>Label</b>	Body Part Circumference Instance Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16811
<b>OID</b>	1.2.36.1.2001.1001.101.103.16811

### Definition


<b>Definition</b>	A globally unique identifier for each instance of a <i>Body Part Circumference</i> observation.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelIdentifier</a> .
-----------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY PART CIRCUMFERENCE</a>	0..1

## 4.36 RELATED INFORMATION

### Identification


<b>Label</b>	RELATED INFORMATION
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16692
<b>OID</b>	1.2.36.1.2001.1001.101.102.16692

### Definition




<b>Definition</b>	A link to another instance of a detailed clinical model (DCM) or a document containing instances of DCMs.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	Links may be to structures inside the enclosing document or inside other documents.

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	BODY PART CIRCUMFERENCE	0..*

### Children

Data Type	Name	Occurrences
	Link Nature	1..1
	Link Role	0..1
	Target	1..1

## 4.37 Link Nature

### Identification

<b>Label</b>	Link Nature
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16698
<b>OID</b>	1.2.36.1.2001.1001.101.103.16698

### Definition


<b>Definition</b>	The general semantic category of the relationship between this instance of this detailed clinical model (DCM), i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	This is one of two attributes that together communicate the semantics of the relationship between the source and target DCMs or document. This attribute is intended to be a coarse-grained category that can be used to enable interoperability between sender and receiver.
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Link Nature Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) is related to</li> <li>2) is confirmed by or authorised by</li> <li>3) is related to the same problem or health issue</li> </ol>
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	1..1

## 4.38 Link Nature Values

### Identification

<b>Label</b>	Link Nature Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16698
<b>OID</b>	1.2.36.1.2001.1001.101.104.16698
<b>External Identifier</b>	LINK_NATURE

### Definition

<b>Definition</b>	Set of values for the general semantic category of the relationship between this instance of this DCM, i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency


### Value Domain

<b>Source</b>	ISO 13606-3:2009	
<b>Permissible Values</b>	The permissible values are those specified in Termlist LINK_NATURE in <a href="#">ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]</a> . They are listed here.	
	LINK-A0, is related to	A generic category for any Link, the details of which will be given by the value of Link Role.
	LINK-B0, is confirmed by or authorised by	The target link contains [an instance of a DCM or document] that acts as the legal or clinical basis for the activity documented in the source [DCM instance], or is a declaration of intent to provide (or not to provide) requested care. This Link is to be used to connect two [DCM instances or DCM and document], as opposed to the inclusion of a corroborating or authorising participant as an identified party within a single [DCM instance or document].
	LINK-C0, is related to the same problem or health issue	The target [instance of a DCM or document] documents health or health care that pertains to the same clinical situation as the source [DCM instance]. One of the two might be defining a problem for which the other is a manifestation, or the relationship might for example be cause and effect, stages in an evolving clinical history, a different interpretation of an observation, a clinical indication or contraindication.
	LINK-D0, is related to the same care plan, act or episode	The source and the target [instances of DCM or documents] are each documenting parts of the same care plan, act or episode. One of the two might be defining the same care plan, act or episode, or both might be related milestones.

	LINK-E0, is a related documentation	The target [instance of a DCM or document] is an alternative documentary form of the source [DCM instance], such as re-expression of the same clinical information or additional supplementary explanatory information.
--	-------------------------------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">Link Nature</a>	1..1

## 4.39 Link Role

### Identification

<b>Label</b>	Link Role
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16699
<b>OID</b>	1.2.36.1.2001.1001.101.103.16699

### Definition


<b>Definition</b>	The detailed semantic description of the relationship between this instance of this DCM (i.e. the source), and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	<p>This is one of two attributes that together communicate the semantics of the relationship between the source and target DCMs. This attribute provides for a specific description of the actual role played by the target in relation to the source.</p> <p>This attribute may be populated from any suitable terminology, and therefore might support human readership better than interoperable automated processing.</p>
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<a href="#">Link Role Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) unspecified link</li> <li>2) suggests</li> <li>3) endorses</li> <li>4) evidence for</li> <li>5) outcome</li> <li>6) is documented by</li> <li>7) excerpts</li> </ol>
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	0..1

## 4.40 Link Role Values

### Identification

<b>Label</b>	Link Role Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16699
<b>OID</b>	1.2.36.1.2001.1001.101.104.16699
<b>External Identifier</b>	LINK_ROLE

### Definition

<b>Definition</b>	Set of values for the detailed semantic description of the relationship between this instance of this DCM, i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Context</b>	These values are used within the context of the value of the <i>Link Nature</i> data element. They provide greater specificity and may be selected more for human readership than for interoperable automated processing.
<b>Context Source</b>	Australian Digital Health Agency

### Value Domain

<b>Source</b>	ISO 13606-3:2009										
<b>Permissible Values</b>	<p>Values <b>SHOULD</b> be from Termlist LINK_ROLE in ISO 13606-3:2009 <a href="#">[ISO2009a]</a>.</p> <p>Values <b>MAY</b> be from any suitable terminology.</p> <p>Some values from Termlist LINK_ROLE in <a href="#">ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]</a> are:</p> <table border="1"> <tr> <td>LINK-A1, unspecified link</td> <td>The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.</td> </tr> <tr> <td>LINK-A2, suggests</td> <td>The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.</td> </tr> <tr> <td>LINK-B1, endorses</td> <td>The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.</td> </tr> <tr> <td>LINK-C3, evidence for</td> <td>The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.</td> </tr> <tr> <td>LINK-D1, outcome</td> <td>The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.</td> </tr> </table>	LINK-A1, unspecified link	The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.	LINK-A2, suggests	The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.	LINK-B1, endorses	The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.	LINK-C3, evidence for	The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.	LINK-D1, outcome	The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.
LINK-A1, unspecified link	The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.										
LINK-A2, suggests	The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.										
LINK-B1, endorses	The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.										
LINK-C3, evidence for	The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.										
LINK-D1, outcome	The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.										




LINK-E1, documented by	A clinical situation documented in the source component is more formally documented in the target component.
LINK-E4, excerpts	The source component is an extract (copy) of part or all of the information contained within the target component.

## Usage

<b>Conditions of Use</b>	Each of the link terms in LINK_ROLE from ISO 13606-3:2009 is a subcategory of a corresponding term in <i>Link Nature Values</i> , where that correspondence is indicated by the first letter after the code string “LINK-”. For example the term LINK-A1 is a subcategory of term LINK-A0. If a term in this list is used for the <i>Link Role</i> data element, the appropriate corresponding value <b>SHALL</b> be used from <i>Link Nature Values</i> .
<b>Conditions of Use Source</b>	ISO 13606-3:2009

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">Link Role</a>	1..1

## 4.41 Target

### Identification

<b>Label</b>	Target
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16700
<b>OID</b>	1.2.36.1.2001.1001.101.103.16700

### Definition


<b>Definition</b>	The “linked to” or identified information.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Link UniquelIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Link</a> , and <a href="#">UniquelIdentifier</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	1..1

## 4.42 Detailed Clinical Model Identifier

### Identification

<b>Label</b>	Detailed Clinical Model Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16693
<b>OID</b>	1.2.36.1.2001.1001.101.103.16693

### Definition


<b>Definition</b>	A globally unique identifier for this detailed clinical model.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Conditions of Use</b>	The value of this item <b>SHALL</b> be either the default value or a semantically equivalent value from an appropriate code system.
<b>Conditions of Use Source</b>	Australian Digital Health Agency
<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelIdentifier</a> .
<b>Default Value</b>	1.2.36.1.2001.1001.101.102.16808

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY PART CIRCUMFERENCE</a>	1..1

*This page is intentionally left blank.*

# 5 Body Mass Index Detailed Clinical Model

This chapter describes version 1.1 of the *Body Mass Index* Detailed Clinical Model.

## 5.1 Purpose

To record the body mass index (BMI) of a person. Body mass index is a calculated ratio describing how a person's body weight relates to the weight that is regarded as normal, or desirable, for the person's height.

## 5.2 Use

To be used for recording the BMI of adults and children.

To be used when entering BMI manually (i.e. calculated and directly entered by the clinician) or automatically (i.e. calculation and entry is performed, automatically, by the software application, based on separate height and weight measurements).

## 5.3 UML Class Diagram

The following figure represents the data hierarchy using a UML 2.0 class diagram. The diagram displays data groups and data elements, together with their names, data types and multiplicities. Data elements are displayed as attributes; data groups are displayed as classes; their label names are represented as association role names. Association role names are only displayed if they differ from the associated class name. When a data element has a choice of data types, the data type of the attribute that represents it is an abstract interface class generalised from the individual data types. The diagram shows the data hierarchy excluding the details of participation. The default multiplicity is 1..1.

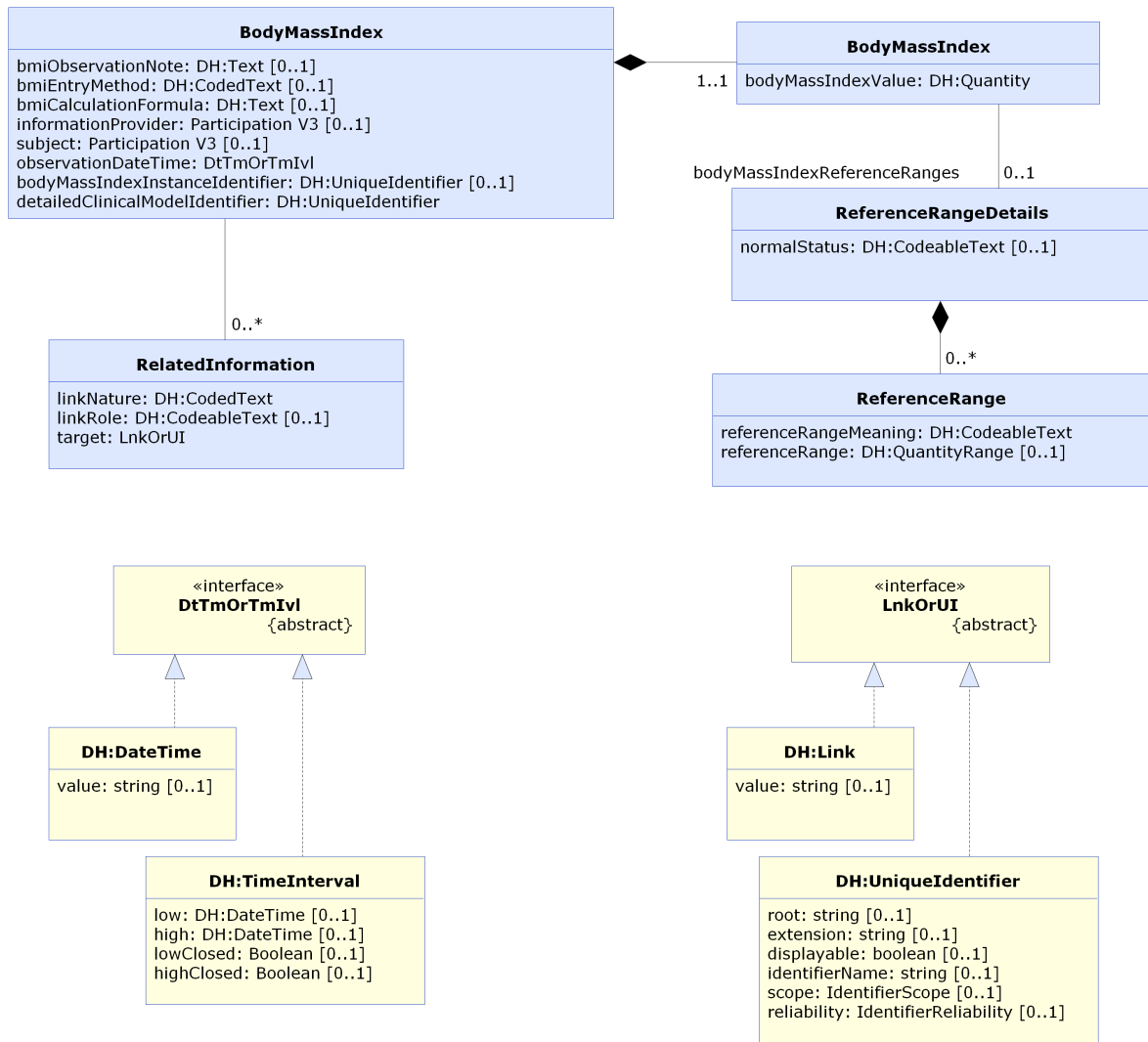


Figure 5.1. Body Mass Index UML Class Diagram

## 5.4 BODY MASS INDEX

### Identification

<b>Label</b>	BODY MASS INDEX
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16856
<b>OID</b>	1.2.36.1.2001.1001.101.102.16856

### Definition












<b>Definition</b>	Details pertinent to the physical measurement of the body mass index (BMI) of a person.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	










### Data Hierarchy



#### Note

Items below whose text is lighter (mid-blue and mid-grey) are technical identifiers whose purpose is to facilitate interoperability, sharing of data and secondary use. Typically, such identifiers will be generated internally by systems and not displayed to users since they rarely have clinical significance.

 BODY MASS INDEX			
		BODY MASS INDEX	1..1
		Body Mass Index Value	1..1
		Body Mass Index Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..1
		Normal Status	0..1
		REFERENCE RANGE	0..*
		Reference Range Meaning	1..1
		Reference Range	0..1
		Comment ( <a href="#">BMI Observation Note</a> )	0..1
		Method ( <a href="#">BMI Entry Method</a> )	0..1
		Formula ( <a href="#">BMI Calculation Formula</a> )	0..1

		INFORMATION PROVIDER	0..1
		SUBJECT	0..1
		Observation DateTime	1..1
		Body Mass Index Instance Identifier	0..1
		RELATED INFORMATION	0..*
		Link Nature	1..1
		Link Role	0..1
		Target	1..1
		Detailed Clinical Model Identifier	1..1



## 5.5 BODY MASS INDEX

### Identification


<b>Label</b>	BODY MASS INDEX
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16857
<b>OID</b>	1.2.36.1.2001.1001.101.102.16857

### Definition



<b>Definition</b>	The body mass index of the person, with reference range information.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY MASS INDEX</a>	1..1

#### Children

Data Type	Name	Occurrences
	<a href="#">Body Mass Index Value</a>	1..1
	Body Mass Index Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..1

## 5.6 Body Mass Index Value

### Identification

<b>Label</b>	Body Mass Index Value
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16857
<b>OID</b>	1.2.36.1.2001.1001.101.103.16857

### Definition


<b>Definition</b>	The body mass index of the person.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	BMI
<b>Data Type</b>	Quantity

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Quantity</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY MASS INDEX</a>	1..1

## 5.7 REFERENCE RANGE DETAILS

### Identification

<b>Label</b>	Body Mass Index Reference Ranges
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16325
<b>OID</b>	1.2.36.1.2001.1001.101.102.16325

### Definition


<b>Definition</b>	One or more reference ranges applicable to <i>Body Mass Index Value</i> .
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	<p>A reference range is particular to the patient and context, e.g. sex, age, and any other factor that affects ranges.</p> <p>May be used to represent normal, therapeutic, dangerous, critical and other such clinical ranges.</p>

### Usage



<b>Conditions of Use</b>	At least one child of this data group <b>SHALL</b> be instantiated.
<b>Conditions of Use Source</b>	Australian Digital Health Agency

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	BODY MASS INDEX	0..1

#### Children

Data Type	Name	Occurrences
	Normal Status	0..1
	REFERENCE RANGE	0..*

## 5.8 Normal Status

### Identification

<b>Label</b>	Normal Status
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-11028
<b>OID</b>	1.2.36.1.2001.1001.101.103.11028

### Definition

<b>Definition</b>	An indication of the degree of diagnostically significant abnormality of the value, based on available clinical information (including but not limited to the reference range).
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	The term “normal” is <b>not</b> statistical normality, but rather what would normally be considered healthy for the individual concerned. As such, this data element represents the health risk for the individual, which is indicated by the observation or measurement and the nature and criticality of that health risk.
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>1</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.


### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Below normal</li> <li>2) Above normal</li> <li>3) Critically low</li> <li>4) Critically high</li> </ol>
-----------------	---

<sup>1</sup> <http://www.hl7.org/oid/index.cfm>

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	Body Mass Index Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..1

## 5.9 REFERENCE RANGE

### Identification

<b>Label</b>	REFERENCE RANGE
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-11024
<b>OID</b>	1.2.36.1.2001.1001.101.102.11024

### Definition


<b>Definition</b>	A named range to be associated with any quantity datum.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	The obligations on this data group imply that if this data group occurs only once, the <i>Reference Range</i> data element is optional, otherwise it is essential.

### Usage



<b>Conditions of Use</b>	<p>If this data group occurs only once, its contents <b>SHALL</b> span the observed value.</p> <p>If this data group occurs more than once, its contents <b>SHOULD</b> include all of the ranges in a single set.</p> <p>If this data group occurs more than once, the <i>Reference Range</i> data element is <b>ESSENTIAL</b>.</p> <p>All reference ranges <b>SHALL</b> come from the one set of reference ranges.</p>
<b>Conditions of Use Source</b>	Australian Digital Health Agency

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	Body Mass Index Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..*

#### Children

Data Type	Name	Occurrences
	<a href="#">Reference Range Meaning</a>	1..1
	<a href="#">Reference Range</a>	0..1

## 5.10 Reference Range Meaning

### Identification

<b>Label</b>	Reference Range Meaning
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16574
<b>OID</b>	1.2.36.1.2001.1001.101.103.16574

### Definition


<b>Definition</b>	Term whose value indicates the meaning of this range.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>2</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Normal</li> <li>2) Critical</li> <li>3) Therapeutic</li> </ol>
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REFERENCE RANGE	1..1

<sup>2</sup> <http://www.hl7.org/oid/index.cfm>

## 5.11 Reference Range

### Identification

<b>Label</b>	Reference Range
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-11024
<b>OID</b>	1.2.36.1.2001.1001.101.103.11024

### Definition


<b>Definition</b>	The data range for the associated <i>Reference Range Meaning</i> data element.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	QuantityRange

### Usage

<b>Examples</b>	<ul style="list-style-type: none"> <li>1) 15 - 58 g/L</li> <li>2) &lt; 15 mmol/L</li> <li>3) 2.5 - 3.5 kg</li> <li>4) 23 - 45 cm</li> </ul>
-----------------	---

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	REFERENCE RANGE	0..1



## 5.12 BMI Observation Note

### Identification

Label	Comment
Metadata Type	Data Element
Identifier	DE-15600
OID	1.2.36.1.2001.1001.101.103.15600

### Definition


Definition	Additional comments relevant to the observation.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Data Type	Text

### Usage

Examples	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Text</a> .
----------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY MASS INDEX</a>	0..1

## 5.13 BMI Entry Method

### Identification

<b>Label</b>	Method
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16859
<b>OID</b>	1.2.36.1.2001.1001.101.103.16859

### Definition


<b>Definition</b>	The method of entering the body mass index.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	This records whether the value was calculated and entered automatically without user intervention or was calculated and entered directly by user.
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">BMI Entry Method Values</a>

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodedText</a> .
-----------------	---

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY MASS INDEX</a>	0..1

## 5.14 BMI Entry Method Values

### Identification

<b>Label</b>	BMI Entry Method Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16858
<b>OID</b>	1.2.36.1.2001.1001.101.104.16858

### Definition


<b>Definition</b>	The set of values of <i>BMI Entry Method</i> .
<b>Definition Source</b>	Australian Digital Health Agency

### Value Domain

<b>Source</b>	OpenEHR
<b>Permissible Values</b>	<p>1, Automatic entry      Body mass index calculated and entered automatically without user intervention.</p> <p>2, Direct entry          Body mass index calculated and entered directly by user.</p>

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Method ( <a href="#">BMI Entry Method</a> )	1..1

## 5.15 BMI Calculation Formula

### Identification

<b>Label</b>	Formula
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16860
<b>OID</b>	1.2.36.1.2001.1001.101.103.16860

### Definition


<b>Definition</b>	The formula used to calculate the body mass index.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	1) Body mass index is commonly calculated as weight (kg) / [height (m) squared].
-----------------	--

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	BODY MASS INDEX	0..1

## 5.16 INFORMATION PROVIDER

### Identification

Label	INFORMATION PROVIDER
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition

Definition	Details pertinent to the identification of the source of the body mass index information.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Notes	<p>This does not have to be a person and, in particular, does not have to be a healthcare provider. Types of sources include:</p> <ul style="list-style-type: none"> <li>• the subject of care;</li> <li>• a subject of care agent, e.g. parent, guardian;</li> <li>• the clinician; and</li> <li>• a device or software.</li> </ul>

### Usage

Conditions of Use	<p>This <b>SHALL NOT</b> be used unless the provider of the information is not the <i>Composer/Author</i> of the enclosing Structured Document.</p> <p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <p><b>Constraints applicable when the information provider is a person NOT acting as a healthcare provider.</b></p> <p>Additional obligation and occurrence constraints:</p> <ul style="list-style-type: none"> <li>• LOCATION OF PARTICIPATION is <b>PROHIBITED</b>.</li> <li>• EMPLOYMENT DETAIL is <b>PROHIBITED</b>.</li> <li>• DEMOGRAPHIC DATA is <b>PROHIBITED</b>.</li> <li>• ENTITLEMENT is <b>PROHIBITED</b>.</li> <li>• Qualifications is <b>PROHIBITED</b>.</li> </ul> <p>Other additional constraints:</p>
-------------------	--

- Participation Type **SHALL** have an implementation-specific value equivalent to “Information Provider”.
- Role **SHOULD** have an implementation-specific value equivalent to “Authorised Representative” or “Nominated Representative”. However, other similar values **MAY** be appropriate.
- PERSON OR ORGANISATION OR DEVICE **SHALL** be instantiated as PERSON.

**Constraints applicable when the information provider is a person acting as a healthcare provider.**

Additional obligation and occurrence constraints:

- LOCATION OF PARTICIPATION is **PROHIBITED**.
- Entity Identifier is **ESSENTIAL**.
- Relationship to Subject of Care is **PROHIBITED**.
- DEMOGRAPHIC DATA is **PROHIBITED**.

Other additional constraints:

- Participation Type **SHALL** have an implementation-specific value equivalent to “Information Provider”.
- Role **SHOULD** have a value chosen from [1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1 \[ABS2009\]](#). However, if a suitable value in this set cannot be found, then any code set that is both registered with HL7 and is publicly available **MAY** be used.
- PERSON OR ORGANISATION OR DEVICE **SHALL** be instantiated as PERSON.

**Constraints applicable when the information provider is a device.**

Additional obligation and occurrence constraints:

- LOCATION OF PARTICIPATION is **PROHIBITED**.
- ADDRESS is **PROHIBITED**.
- ELECTRONIC COMMUNICATION DETAIL is **PROHIBITED**.
- ENTITLEMENT is **PROHIBITED**.
- Qualifications is **PROHIBITED**.

Other additional constraints:


- Participation Type **SHALL** have an implementation-specific value equivalent to “Information Provider”.
- Role **SHALL** have an implementation-specific value equivalent to “Not Applicable”.
- PERSON OR ORGANISATION OR DEVICE **SHALL** be instantiated as DEVICE.
- ENTITLEMENT is **PROHIBITED**.
- Qualifications is **PROHIBITED**.

**Conditions of Use Source**

Australian Digital Health Agency

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	BODY MASS INDEX	0..1

## 5.17 SUBJECT

### Identification

Label	SUBJECT
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition


Definition	The person about whom the body mass index information is being recorded.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Scope	Generally only used when the recorder needs to make it explicit. Otherwise, the subject of the enclosing Structured Document is assumed.
Scope Source	Australian Digital Health Agency

### Usage

Conditions of Use	<p>This <b>SHALL NOT</b> be used unless the subject of the information is not the <i>Subject of Care</i> of the enclosing Structured Document.</p> <p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Subject".</li> <li>PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON.</li> </ul>
Conditions of Use Source	Australian Digital Health Agency

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	BODY MASS INDEX	0..1



## 5.18 Observation DateTime

### Identification

Label	Observation DateTime
Metadata Type	Data Element
Identifier	DE-15561
OID	1.2.36.1.2001.1001.101.103.15561

### Definition


Definition	Date, and optionally time, when an observation is clinically significant to the condition of the subject of the observation.
Definition Source	Australian Digital Health Agency
Synonymous Names	Clinically Significant DateTime Effective DateTime
Notes	<p>Associated with every observation of a subject are two different times that often, but not always, coincide, and are consequently often conflated: the time that the activity of observing occurred (the time the subject <b>was</b> observed, the <i>measuring time</i>), and the time that the subject was the way it looked (the time the subject was <b>as</b> observed, the <i>state time</i>.)</p> <p>Generally, there is no delay between a person being in a state, and an observation of the person being in that state. For example, if a pulse of 72 bpm is recorded at 13:45 on 12 February 2015, one can assume that the heart rate was 72 bpm at that time. (Pulse is a surrogate for heart rate.) In such cases the <i>measuring time</i> and the <i>state time</i> are the same.</p> <p>Sometimes, when there is a delay between the time the person is in a state and the time when they are measured, the delay is important. For example, if a sample is taken from a person and its testing is completed over a period of days, the test results will provide information about the state of the person at the time the sample was taken, not the time the test was completed.</p> <p>The clinically significant time in all clinical observations is the time that the person was as observed, the <i>state time</i>. In observations involving specimens, the time that the specimen was taken is the closest practicable proxy for the <i>state time</i>.</p> <p>The meaning of <i>Observation DateTime</i> is always the time that the person was <b>as</b> observed.</p> <p>This approach follows that of openEHR.</p>
Data Type	DateTime TimeInterval

### Usage

Examples	Please see <a href="#">DateTime</a> in <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information on specifying a date or time (or both).
----------	---

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY MASS INDEX</a>	1..1

## 5.19 Body Mass Index Instance Identifier

### Identification

<b>Label</b>	Body Mass Index Instance Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16863
<b>OID</b>	1.2.36.1.2001.1001.101.103.16863

### Definition


<b>Definition</b>	A globally unique identifier for each instance of a <i>Body Mass Index</i> observation.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelIdentifier</a> .
-----------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">BODY MASS INDEX</a>	0..1

## 5.20 RELATED INFORMATION

### Identification


<b>Label</b>	RELATED INFORMATION
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16692
<b>OID</b>	1.2.36.1.2001.1001.101.102.16692

### Definition




<b>Definition</b>	A link to another instance of a detailed clinical model (DCM) or a document containing instances of DCMs.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	Links may be to structures inside the enclosing document or inside other documents.

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	BODY MASS INDEX	0..*

#### Children

Data Type	Name	Occurrences
	Link Nature	1..1
	Link Role	0..1
	Target	1..1

## 5.21 Link Nature

### Identification

<b>Label</b>	Link Nature
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16698
<b>OID</b>	1.2.36.1.2001.1001.101.103.16698

### Definition


<b>Definition</b>	The general semantic category of the relationship between this instance of this detailed clinical model (DCM), i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	This is one of two attributes that together communicate the semantics of the relationship between the source and target DCMs or document. This attribute is intended to be a coarse-grained category that can be used to enable interoperability between sender and receiver.
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Link Nature Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) is related to</li> <li>2) is confirmed by or authorised by</li> <li>3) is related to the same problem or health issue</li> </ol>
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	1..1

## 5.22 Link Nature Values

### Identification

<b>Label</b>	Link Nature Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16698
<b>OID</b>	1.2.36.1.2001.1001.101.104.16698
<b>External Identifier</b>	LINK_NATURE

### Definition

<b>Definition</b>	Set of values for the general semantic category of the relationship between this instance of this DCM, i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency

### Value Domain


<b>Source</b>	ISO 13606-3:2009	
<b>Permissible Values</b>	The permissible values are those specified in Termlist LINK_NATURE in <a href="#">ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]</a> . They are listed here.	
	LINK-A0, is related to	A generic category for any Link, the details of which will be given by the value of Link Role.
	LINK-B0, is confirmed by or authorised by	The target link contains [an instance of a DCM or document] that acts as the legal or clinical basis for the activity documented in the source [DCM instance], or is a declaration of intent to provide (or not to provide) requested care. This Link is to be used to connect two [DCM instances or DCM and document], as opposed to the inclusion of a corroborating or authorising participant as an identified party within a single [DCM instance or document].
	LINK-C0, is related to the same problem or health issue	The target [instance of a DCM or document] documents health or health care that pertains to the same clinical situation as the source [DCM instance]. One of the two might be defining a problem for which the other is a manifestation, or the relationship might for example be cause and effect, stages in an evolving clinical history, a different interpretation of an observation, a clinical indication or contraindication.
	LINK-D0, is related to the same care plan, act or episode	The source and the target [instances of DCM or documents] are each documenting parts of the same care plan, act or episode. One of the two might be defining the same care plan, act or episode, or both might be related milestones.

LINK-E0, is a related documentation

The target [instance of a DCM or document] is an alternative documentary form of the source [DCM instance], such as re-expression of the same clinical information or additional supplementary explanatory information.

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">Link Nature</a>	1..1

## 5.23 Link Role

### Identification

<b>Label</b>	Link Role
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16699
<b>OID</b>	1.2.36.1.2001.1001.101.103.16699

### Definition


<b>Definition</b>	The detailed semantic description of the relationship between this instance of this DCM (i.e. the source), and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	<p>This is one of two attributes that together communicate the semantics of the relationship between the source and target DCMs. This attribute provides for a specific description of the actual role played by the target in relation to the source.</p> <p>This attribute may be populated from any suitable terminology, and therefore might support human readership better than interoperable automated processing.</p>
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<a href="#">Link Role Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) unspecified link</li> <li>2) suggests</li> <li>3) endorses</li> <li>4) evidence for</li> <li>5) outcome</li> <li>6) is documented by</li> <li>7) excerpts</li> </ol>
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	0..1



## 5.24 Link Role Values

### Identification

<b>Label</b>	Link Role Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16699
<b>OID</b>	1.2.36.1.2001.1001.101.104.16699
<b>External Identifier</b>	LINK_ROLE

### Definition

<b>Definition</b>	Set of values for the detailed semantic description of the relationship between this instance of this DCM, i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Context</b>	These values are used within the context of the value of the <i>Link Nature</i> data element. They provide greater specificity and may be selected more for human readership than for interoperable automated processing.
<b>Context Source</b>	Australian Digital Health Agency

### Value Domain

<b>Source</b>	ISO 13606-3:2009										
<b>Permissible Values</b>	<p>Values <b>SHOULD</b> be from Termlist LINK_ROLE in ISO 13606-3:2009 <a href="#">[ISO2009a]</a>.</p> <p>Values <b>MAY</b> be from any suitable terminology.</p> <p>Some values from Termlist LINK_ROLE in <a href="#">ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]</a> are:</p> <table border="1"> <tr> <td>LINK-A1, unspecified link</td> <td>The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.</td> </tr> <tr> <td>LINK-A2, suggests</td> <td>The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.</td> </tr> <tr> <td>LINK-B1, endorses</td> <td>The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.</td> </tr> <tr> <td>LINK-C3, evidence for</td> <td>The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.</td> </tr> <tr> <td>LINK-D1, outcome</td> <td>The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.</td> </tr> </table>	LINK-A1, unspecified link	The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.	LINK-A2, suggests	The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.	LINK-B1, endorses	The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.	LINK-C3, evidence for	The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.	LINK-D1, outcome	The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.
LINK-A1, unspecified link	The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.										
LINK-A2, suggests	The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.										
LINK-B1, endorses	The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.										
LINK-C3, evidence for	The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.										
LINK-D1, outcome	The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.										


	LINK-E1, documented by	A clinical situation documented in the source component is more formally documented in the target component.
	LINK-E4, excerpts	The source component is an extract (copy) of part or all of the information contained within the target component.

## Usage

<b>Conditions of Use</b>	Each of the link terms in LINK_ROLE from ISO 13606-3:2009 is a subcategory of a corresponding term in <i>Link Nature Values</i> , where that correspondence is indicated by the first letter after the code string “LINK-”. For example the term LINK-A1 is a subcategory of term LINK-A0. If a term in this list is used for the <i>Link Role</i> data element, the appropriate corresponding value <b>SHALL</b> be used from <i>Link Nature Values</i> .
<b>Conditions of Use Source</b>	ISO 13606-3:2009

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Link Role	1..1

## 5.25 Target

### Identification

<b>Label</b>	Target
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16700
<b>OID</b>	1.2.36.1.2001.1001.101.103.16700

### Definition


<b>Definition</b>	The “linked to” or identified information.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Link UniquelIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Link</a> , and <a href="#">UniquelIdentifier</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	1..1

## 5.26 Detailed Clinical Model Identifier

### Identification

<b>Label</b>	Detailed Clinical Model Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16693
<b>OID</b>	1.2.36.1.2001.1001.101.103.16693

### Definition


<b>Definition</b>	A globally unique identifier for this detailed clinical model.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Conditions of Use</b>	The value of this item <b>SHALL</b> be either the default value or a semantically equivalent value from an appropriate code system.
<b>Conditions of Use Source</b>	Australian Digital Health Agency
<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelIdentifier</a> .
<b>Default Value</b>	1.2.36.1.2001.1001.101.102.16856

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	BODY MASS INDEX	1..1

# Appendix A. Known Issues

This appendix lists known issues with this specification at the time of publishing. We are working on solutions to these issues and encourage comments to help us develop these solutions.

Reference	Description
Links to external resources	Certain combinations of web browsers and PDF readers have problems opening URL links (usually found in reference sections) that span more than one line.
Data Hierarchies	Only the parts of these detailed clinical models (DCMs) required for current structured content specifications have been mapped to HL7 CDA. Mapping the remaining parts to CDA may reveal inconsistencies in the data hierarchies, requiring normative change.
Undefined Value Domains	<p>The following data elements lack a defined value domain: <i>Normal Status</i>, <i>Reference Range Meaning</i>, <i>Confounding Factor Name</i>, <i>Numerical Identifier</i>, <i>Anatomical Plane</i>, <i>Identified Landmark</i>, <i>Anatomical Location Aspect</i>.</p> <p>We are in the process of developing national code sets for these items. In the meantime, you are free to use your own code sets, providing any code set used <b>SHALL</b> be registered, i.e. registered through the HL7 code set registration procedure with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available. Note that when national standard code sets do become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.</p>
Approximate value indicator for measurements	No method is provided to indicate that a measurement, such as <i>Circumference Value</i> , has an approximate value although the data type <i>Quantity</i> does allow an uncertainty to be included.
Reference Range Details	There is no method provided to group reference ranges, nor is one provided to identify the source of a reference range. For example, if both WHO (World Health Organization) and RACGP (Royal Australian College of General Practitioners) percentile ranges are included, there is no good way to separate the entries for the different ranges.
Information Provider	The constraints have not been updated to align with those in more recent DCMs.

*This page is intentionally left blank.*

# Appendix B. Specification Guide for Use

## B.1 Overview

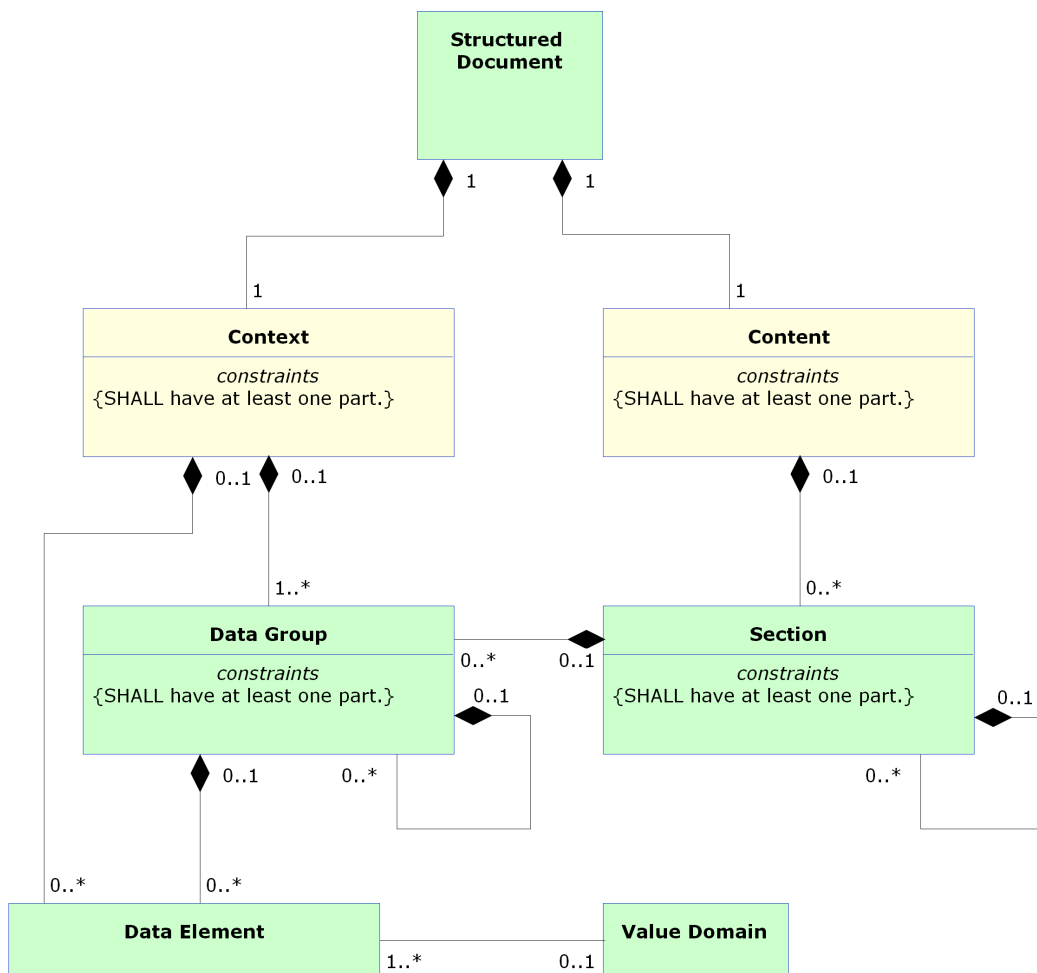
Each detailed clinical model (DCM) and structured content specification (SCS) is designed to be a shared basis for data interpretation. It specifies rigorous business and technical definitions of data that systems may need to share. It is intended to be a logical specification of the data to be persisted within or communicated between systems. It is also the foundation for the compliance, conformance, and declaration process. Our CDA implementation guides are guides to the implementation of HL7 CDA R2 messages based upon these DCMs and SCSs.

Each DCM specifies all of the data components required for any use of a clinical concept; for instance, an entry in a medical record such as a procedure or an imaging test. As such, they are maximal data sets. DCMs are building blocks, which are trimmed to size for use in the construction of SCSs.

Each SCS describes a template of a [Structured Document](#). It specifies the data for a single type of clinical document or information exchange, such as a discharge summary. It is assembled using DCMs that have been constrained to eliminate data components not relevant to the particular context. For example, *Procedure* in a discharge summary uses only some of the data components required by *Procedure* in a specialist report.

## B.2 The Structured Content Specification Metamodel

Our metamodel for structured content specifications (see Figure 1) is used to specify the overall structure of a structured content specification. The structure is a tree, so every item in the tree, other than the root node, has a parent node. For an SCS, the root node is a Structured Document. For a DCM, the root node is a Data Group.



**Figure 1: SCS Metamodel**

There are two main items used to organise information within an SCS as follows:

**Context:** This contains information related to the overall context of the document.

**Content:** This contains information that changes between different SCSs, but is always structured as shown in Figure 1, and consists of the following data components:

- Section
- Data Group
- Data Element
- Value Domain

These data components are described in more detail below.

## Structured Document

A structured document is a collection of health information about a subject of care that is relevant to the ongoing care of that person. They are composed of one or more data groups and data elements that are organised into



sections. Examples of structured documents are *Discharge Summary*, *Shared Health Summary*, and *Advance Care Directive Custodian Record*.

## Context

The purpose of the context is to identify and classify the document and to provide subjects of care and involved healthcare providers with the information related to the relevant healthcare events.

## Content

Content contains a collection of personal information and health information pertinent to a subject of care that is derived from the healthcare event described in the document. The detail is organised into one or more data groups, which are optionally grouped into sections.

## Section

A section is composed of data groups, other sections, or both. It is an organising container that cues the reader about expected content. A section organises information in a manner suitable for the primary purpose for which it is collected and provides a way to navigate through the data components within the document, thereby enabling more efficient querying. It is recommended that the section support safe reuse for secondary purposes, e.g. clinical coding or inclusion in a summarised form in an electronic health record. A section is context-specific to the document in which it resides.

## Data Group

Each data group is used to represent one concept. A data group consists of other data groups, data elements, or both. Some data groups are reused across DCMs.

Every instance of a data group **SHALL** have at least one child data component instantiated.

## Participation

Participation is a special case of a data group that is based on a data group template, which is reused throughout the DCMs and SCSs. Participations are an amalgam of the Actors (see below) operating within a defined healthcare domain and the Roles they are playing within that domain.

A Participant has been defined to align with the concepts of the Agency's [Interoperability Framework \[NEHT2007b\]](#). It equates to an *Entity* that is related to the action described in an SCS as an *Actor*. A Participant can be a human, an organisation, or an IT system.

Our [Participation Data Specification \[NEHT2011v\]](#) defines the full Participation specification.

## Choice

Choice represents a selection, to be made at run-time, of a single member from a set of data groups, where the set is defined at design-time, i.e. one and only one member of the set is chosen for each instance of the choice.

For example, at design-time a healthcare provider provides a service, but it is not until run-time that a decision can be made as to whether the provider is a person or an organisation. Hence, when a healthcare provider *Participant* is instantiated, it will contain either an instance of the *Person* data group or an instance of the *Organisation* data group.

## Data Element

A data element is the smallest named unit of information in the model that can be assigned a value. For example, *DateTime of Observation* and *Observation Note*. Data elements are bound to data types (see [Data Types Legend](#)). Some data elements are reused in different data groups.

While all data elements are constrained by their data type, some data elements are further constrained by value domains (see [Value Domain](#) below).

## Value Domain

A value domain constrains the permissible values for a data element. The values are often a subset of values based on a generic data type.

Value domains are reusable items, therefore the same value domain can be referred to by different data elements in different contexts. Value domains are often specified with reference to a *reference set*. A reference set is a constrained list of SNOMED CT-AU concepts that are appropriate to a particular context or use. Since many of these reference sets have been developed specifically for the context in which they appear, it is recommended that an assessment of fitness for purpose be undertaken before using any of the reference sets in another context.

Value domains constrain either by specifying a lower or upper bound (or both) on the range of permissible values or by specifying a finite set of prescribed values. Such a set of prescribed values can be specified directly within the definition of the data element, or in a separate but associated specification, or else by reference to one or more vocabulary or terminology reference sets. The table below provides some examples of value domains.

**Table 1: Value Domain Examples**

Data Element	Data Type	Example of Value Domain										
Sex	CodedText	<a href="#">Standards Australia AS 4846 (2006) – Health Care Provider Identification [SA2006a]</a> and <a href="#">Standards Australia AS 5017 (2006) – Health Care Client Identification [SA2006b]</a> derive their values from METeOR 287316, which includes values such as: <table border="1" data-bbox="652 1303 1433 1534"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Male</td> </tr> <tr> <td>2</td> <td>Female</td> </tr> <tr> <td>3</td> <td>Intersex or Indeterminate</td> </tr> <tr> <td>9</td> <td>Not Stated/Inadequately Described</td> </tr> </tbody> </table>	Value	Meaning	1	Male	2	Female	3	Intersex or Indeterminate	9	Not Stated/Inadequately Described
Value	Meaning											
1	Male											
2	Female											
3	Intersex or Indeterminate											
9	Not Stated/Inadequately Described											
Diagnosis	CodeableText	A SNOMED CT-AU reference set that references concepts such as “Bronchitis” (Concept ID: 32398004).										
Therapeutic Good Identification	CodeableText	An AMT reference set that references concepts such as “Ibuprofen Blue (Herron) (ibuprofen 200 mg) tablet: film-coated, 1 tablet” (Concept ID: 54363011000036107).										
Individual Pathology Test Result Name	CodeableText	A LOINC subset that references concepts such as “Cholesterol [Moles/volume] in Serum or Plasma” (ID: 14647-2).										






## B.3 Icon Legend

These legends describe all icons that are used in the Agency's DCMs and SCSs.

## Metadata Types Legend

The following table explains each of the icons used to represent the metadata types within DCMs and SCSs.



**Table 2: Metadata Types Legend**

Icon	Metadata Types
	Structured Document
	Section
	Data Group
	Participation
	Choice

## Data Types Legend

The following table explains each of the icons used to represent the data types bound to each data element in the SCSs. These data types are a profile of the **ISO 21090-2011** data types as specified in [Data Types in NEHTA Specifications: A Profile of the ISO 21090 Specification \[NEHT2010c\]](#).

**Table 3: Data Types Legend**

Icon	Data type	Explanation
	Any (ISO 21090: ANY)	Use of this icon indicates that instances of the data element can be of any concrete data type. There are no limitations on the data type of the data element.  The values that can be required will vary considerably depending on the context. This is an abstract data type that is the basis for all data types and <b>SHOULD NOT</b> be used in an actual implementation.
	Boolean (ISO 21090: BL)	A data type, sometimes called the logical data type, having one of the two values: <i>true</i> and <i>false</i> .  Many systems represent true as <i>non-zero</i> (often 1, or -1) and false as <i>zero</i> .  <b>Usage/Examples</b>  • An actual value entered by a user might be “yes” or could be chosen by a mouse click on an icon such as <input checked="" type="checkbox"/> .



CodeableText  
(ISO 21090: CD)

Coded text *with* exceptions; supports various ways of holding text, both free text and coded text.

Often used to support compliance for early adopters of the structured content specifications.

While it is recommended that the values in this data type come from the bound value domain, it allows other value domains to also be used (with or without translations to the bound value domain) or free text alternatives. This is useful when it is not possible to define an entire value domain for a complex concept (e.g. *Diagnosis*) and when there are competing code sets in existence. Note that within exchange specifications or message profiles this data type **MAY** be constrained to mandate compliance with the bound value domain.

**Usage/Examples**

- The Australian Institute of Health and Welfare (AIHW) defines a data element concept *Episode of admitted patient care-separation mode* (the status at separation of a subject of care and the place to which they are released). An early adopter could have a similar concept (coded or otherwise) that maps to this data element but does not strictly comply with the AIHW values.
- A SNOMED CT-AU coded/complex expression that embodies single or multiple concepts. The SNOMED CT-AU concepts behind these CodeableText data elements are specified in the structured content specification value domains.



CodedText  
(ISO 21090: CD)

Coded text *without* exceptions; text with code mappings. Values in this data type **SHALL** come from the bound value domain, with no exceptions.

Often used for reference sets with only a small number of applicable values, e.g. Gender and Document Status.

**Usage/Examples**

[Standards Australia AS 5017 \(2006\) – Health Care Client Identification \[SA2006b\]](#) specifies the following value domain representing a type of address:

Value	Meaning
1	Business
2	Mailing or Postal
3	Temporary Accommodation
4	Residential (permanent)
9	Not Stated/Unknown/Inadequately Described



DateTime  
(ISO 21090: TS)






A single date, optionally with a time of day.

Has the ability to indicate a level of precision, but not whether the date or time is estimated. Cannot represent a time alone.

String representations of known dates **SHALL** conform to the format within the **ISO 21090-2011** standard without the use of extensions, i.e. YYYY[MM[DD[HH[MM[SS[U[U[U[U]]]]]]]]][+|-ZZzz].

**Usage/Examples**

- Partial dates: 2008, 20081001.
- To indicate 1:20 pm on May the 31st, 1999 for a time zone that is 10 hours ahead of Coordinated Universal Time (UTC): 19990531132000+1000.

	<p>Duration (ISO 21090: PQ.TIME)</p>	<p>The period of time during which something continues. Consists of a value and a unit that represents the time value, e.g. hours, months. Compound durations are not allowed, e.g. 10 days 3 weeks 5 hours.</p>
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• 3 hours</li> <li>• 6 months</li> <li>• 1 year</li> </ul>		
	<p>EncapsulatedData (ISO 21090: ED)</p>	<p>Data that is primarily intended for human interpretation or for further machine processing outside the scope of this specification. This includes unformatted or formatted written language, multimedia data, or structured information as defined by a different standard (e.g. XML signatures).</p>
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• JPEG images</li> <li>• HTML documents</li> <li>• <a href="#">[RFC1521]</a> MIME types</li> </ul>		
	<p>Integer (ISO 21090: INT)</p>	<p>The mathematical data type comprising the exact integral values.</p>
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• 1</li> <li>• -50</li> <li>• 125</li> </ul>		
	<p>Link (ISO 21090: TEL)</p>	<p>A general link, reference or pointer to an object, data or application that exists logically or is stored electronically in a computer system.</p>
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• URL (Uniform Resource Locator) – the World Wide Web address of a site on the internet, such as the URL for the Google internet search engine – <i>http://www.google.com</i>.</li> <li>• An absolute or relative path within a file or directory structure – e.g. in the Windows operating system, the “link” or absolute path to a particular letter could be <i>C:\Documents and Settings\GuestUser\MyDocuments\letter.doc</i></li> </ul>		
	<p>Quantity (ISO 21090: PQ)</p>	<p>A magnitude value with a unit of measurement.</p>
<p>This is used for recording many real world measurements and observations. As the default unit of measure is 1, even counts of items can be recorded with <i>Quantity</i>.</p>		
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• 100 centimetres</li> <li>• 25.5 grams</li> <li>• 3 per month</li> </ul>		

	<p>QuantityRange (ISO 21090: IVL)</p>	<p>A range of <i>Quantity</i> values.</p> <p>It may be identified using a combination of an optional minimum <i>Quantity</i> and an optional maximum <i>Quantity</i> (i.e. lower and upper bounds).</p> <p>This is typically used for defining the valid range of values for a particular measurement or observation. Unbounded quantity ranges can be identified by not including a minimum or a maximum <i>Quantity</i> value.</p>
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• -20 to 100 Celsius</li> <li>• 30-50 mg</li> <li>• &gt;10 kg</li> <li>• 2-3 hours</li> </ul>		
	<p>QuantityRatio (ISO 21090: RTO)</p>	<p>A relative magnitude of two <i>Quantity</i> values.</p> <p>Usually recorded as numerator and denominator.</p>
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• 25 mg / 500 ml</li> <li>• 200 mmol per litre</li> </ul>		
	<p>Real (ISO 21090: REAL)</p>	<p>A computational approximation to the standard mathematical concept of real numbers.</p> <p>These are often called floating-point numbers.</p>
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• 1.075</li> <li>• -325.1</li> <li>• 3.14157</li> </ul>		
	<p>Text (ISO 21090: ST)</p>	<p>A character string (with optional language) containing any combination of alpha, numeric, or symbols from the Unicode character set. Also referred to as <i>free text</i>.</p> <p><b>Usage/Examples</b></p> <p>“The patient is a 37 year old man who was referred for cardiac evaluation after complaining of occasional palpitations, racing heart beats and occasional dizziness.”</p>
	<p>TimeInterval (ISO 21090:IVL)</p>	<p>An interval in time.</p> <p>It is identified using a combination of an optional start <i>DateTime</i>, an optional end <i>DateTime</i>, and an optional <i>Duration</i>.</p>
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• 20080101+1000 - 20081231+1000</li> <li>• 200801010130+1000 - 200801011800+1000</li> <li>• 200801010130+1000, duration=16.5 hours</li> </ul>		



## UniquelIdentifier

(ISO 21090: II)

A unique value used to identify a physical or virtual object or concept.

In using this data type, the attributes of the UniquelIdentifier data type **SHOULD** be populated from the identifiers as defined in [AS 4846 \(2006\) – Health Care Provider Identification \[SA2006a\]](#) and [AS 5017 \(2006\) – Health Care Client Identification \[SA2006b\]](#) as follows:

- *root*: a globally unique object identifier that identifies the combination of geographic area, issuer and type. If no such globally unique object identifier exists, it **SHALL** be created.
- *extension*: a unique identifier within the scope of the root that is directly equivalent to the identifier designation element.
- *identifierName*: a human readable name for the namespace represented by the root that is populated with the issuer or identifier type values, or a concatenation of both, as appropriate. The content of this attribute is not intended for machine processing and **SHOULD NOT** be used for that purpose.
- *identifierScope*: the geographic span or coverage that applies to or constrains the identifier. It is directly equivalent to the geographic area element. The content of this attribute is not intended for machine processing and **SHOULD NOT** be used as such.

Also, the following constraints apply on the UniquelIdentifier data type:

- 1) The *root* attribute **SHALL** be used.
- 2) For an Entity Identifier, the *root* attribute **SHALL** be an OID that consists of a node in a hierarchically assigned namespace, formally defined using the ITU-T's ASN.1 standard.
- 3) For an Entity Identifier, the *root* attribute **SHALL NOT** be a UUID.
- 4) The *extension* attribute **SHALL** be used.

### Usage/Examples

Australian health identifiers (e.g. IHI, HPI-I and HPI-O) and patient hospital medical record numbers are examples of identifiers that may be carried by data elements of this data type.

## Keywords Legend

Where used in this document and in DCMs and SCSs, the keywords **SHALL**, **SHOULD**, **MAY**, **SHALL NOT** and **SHOULD NOT** are to be interpreted as described in [Key Words for Use in RFCs to Indicate Requirement Levels \[RFC2119\]](#). Our specifications use the terms **SHALL** in place of “MUST” and **SHALL NOT** in place of “MUST NOT”. The key word definitions in RFC 2119, adjusted to remove the key words not used in the Agency specifications, are presented in the following table.

**Table 4: Keywords Legend**

Keyword	Definition
<b>SHALL</b>	This word means that the statement is an absolute requirement of the specification.
<b>SHOULD</b>	This word means that there may exist valid reasons in particular circumstances to ignore a particular data component, but the full implications must be understood and carefully weighed before choosing a different course.

<b>MAY</b>	This word means that a data component is truly optional. One implementer may choose to include the data component because a particular implementation requires it, or because the implementer determines that it enhances the implementation, while another implementer may omit the same data component. An implementation that does not include a particular option shall be prepared to interoperate with another implementation that does include the option, perhaps with reduced functionality. In the same vein, an implementation that does include a particular option shall be prepared to interoperate with another implementation that does not include the option (except of course, for the feature the option provides).
<b>SHALL NOT</b>	This phrase means that the statement is an absolute prohibition of the specification.
<b>SHOULD NOT</b>	This phrase means that there may exist valid reasons in particular circumstances when the particular behaviour is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behaviour described with this label.

## Obligation Legend

In DCMs and SCSs obligations on a data component specify whether or not it **SHALL** be populated in the logical record architecture of a message. We intend that all data components that are not **PROHIBITED** will be implemented.

Obligations in statements about values specify whether or not certain values are permitted.

Implementation guides specify the rules and formats for implementing and populating data components in specific messaging formats.

The following table defines the obligations.

**Table 5: Obligations Legend**

Keyword	Interpretation
<b>ESSENTIAL</b>	<p>Indicates that the data component is considered a mandatory item of information and <b>SHALL</b> be populated.</p> <p><b>Usage/Examples:</b></p> <p>The Participant data component for a Subject of Care <b>SHALL</b> include an Entity Identifier data component in order to hold the IHI.</p>
<b>OPTIONAL</b>	<p>Indicates that the data component is not considered a mandatory item of information and <b>MAY</b> be populated.</p> <p><b>Usage/Examples:</b></p> <p>Such data components will be implemented, only inclusion and population are optional.</p> <p>This is only needed when a DCM incorrectly asserts that a data component is <b>ESSENTIAL</b>. It will be used with a note stating that the DCM needs revision.</p>
<b>PROHIBITED</b>	<p>On a data component this indicates that the data component is considered a forbidden item of information and <b>SHALL NOT</b> be included.</p> <p>In a statement about values this indicates that the use of the specified values is considered forbidden and they <b>SHALL NOT</b> be used.</p> <p><b>Usage/Examples:</b></p> <p>Within a Participation data group depicting a Subject of Care, the Participation Healthcare Role <b>SHALL NOT</b> be populated.</p>



**CONDITIONAL** Indicates that a data component is considered **ESSENTIAL** only on satisfaction of a given condition. Individual data components specify the obligation of the data component when the condition is not met.

When a condition is met, the data component is considered to be **ESSENTIAL** and **SHALL** be populated.

When a condition is not met, the data component may be considered **PROHIBITED**, or the data component may be considered **OPTIONAL**.

**Usage/Examples:**

Within a Pathology Result Report, the *Specimen Detail* data group is **ESSENTIAL** if the requested test is to be performed on a specimen; otherwise it **SHALL NOT** be included.

Obligations follow the usual scope rules: where **ESSENTIAL** child data components are contained within **OPTIONAL** parent data components, the child data components **SHALL NOT** be included when the parent is not included.

## B.4 Exceptional Values

Occasionally a data element will have an exceptional value: an abnormal value (i.e. the value cannot be described using the expected set of values) or an absent value (i.e. no value is provided). Some abnormal values are only relevant to data elements of certain data types (e.g. positive infinity is relevant to numbers but not Booleans).

Unless otherwise specified, all data elements are permitted to have exceptional values. Constraints on the use of exceptional values are contained in the [Exceptional Values row](#) of the Usage section, except for instances of [Participation](#), when they are in the [Conditions of Use row](#). The most common statements constraining exceptional values are:

- Absent values are **PROHIBITED**.
- Abnormal values are **PROHIBITED**.

The commonly used implementation specifications ISO 21090 and HL7 CDA R2 use *nullFlavor* to manage abnormal and absent values.

The following table provides a classification of *nullFlavor* values as abnormal or absent.

**Table 6: Classification of ISO 21090 nullFlavor values as absent or abnormal**

Level	Code	Term	Abnormal	Absent
1	NI	No information		Absent
2	INV	Invalid	Abnormal	
3	OTH	Other	Abnormal	
4	PINF	Positive infinity	Abnormal	
4	NINF	Negative infinity	Abnormal	
3	UNC	Unencoded	Abnormal	
3	DER	Derived	Abnormal	
2	UNK	Unknown		Absent
3	ASKU	Asked but unknown		Absent
4	NAV	Temporarily unavailable		Absent
3	NASK	Not asked		Absent
3	QS	Sufficient quantity	Abnormal	

Level	Code	Term	Abnormal	Absent
3	TRC	Trace	Abnormal	
2	MSK	Masked		Absent
2	NA	Not applicable		Absent

## B.5 Information Model Specification Parts Legends

This section illustrates the format and parts used to define each section, data group and data element within the Agency’s DCMs and SCSs, and identifies when each part is applicable.

### Chapter Name

Each section, data group, data element, value domain or choice has its own eponymous chapter. The chapter name is used in all data hierarchies.

### Identification Section Legend

The following table illustrates the layout of the Identification section and describes the various parts of the section.

**Table 7: Identification Section Legend**

<b>Label</b>	A suggested display name for the data component.
<b>Metadata Type</b>	The type of the data component, e.g. section, data group or data element.
<b>Identifier</b>	An Agency-assigned internal identifier of the data component.  Note that if one data component is used twice (e.g. <i>Therapeutic Good Identification</i> is used in both <i>Medication Instruction</i> and <i>Medication Action</i> ), both uses of the data component will have the same identifier. A data component identifier identifies a data component, not a <b>use</b> of a data component.
<b>OID</b>	An object identifier equivalent to the data component identifier.
<b>External Identifier</b>	An identifier of the concept represented by the data component that is assigned by an organisation other than the Agency.

### Definition Section Legend

The following table illustrates the layout of the Definition section and describes the various parts of the section.

**Table 8: Definition Section Legend**

<b>Definition</b>	The meaning, description or explanation of the data component.  For data groups used in a particular context, the definition <b>MAY</b> be a refinement of the generic data group definition.
<b>Definition Source</b>	The authoritative source for the Definition statement.
<b>Synonymous Names</b>	A list of any names the data component may also be known as.

<b>Scope</b>	Implementers may prefer to use synonymous names to refer to the data component in specific contexts.
	Situations in which the data component may be used, including the Scope circumstances where specified data are required or recommended.
<b>Scope Source</b>	For example, Medication Instruction (data group) has a scope that includes all prescribable therapeutic goods, both medicines and non-medicines.
	This item is not relevant to data elements or value domains.
<b>Context</b>	The authoritative source for the Scope statement.
	The environment in which the data component is meaningful, i.e. the circumstance, purpose and perspective under which this data component is defined or used.
<b>Assumptions</b>	For example, Street Name has a context of Address.
	This item is applicable only to data elements.
<b>Assumptions Source</b>	Suppositions and notions used in defining the data component.
	The authoritative source for the Assumptions statement.
<b>Notes</b>	Informative text that further describes the data component, or assists in the understanding of how the data component can be used.
<b>Data Type</b>	The data type (or data types) of the data element, e.g. DateTime or Text.
	The valid data types are specified in the <a href="#">Data Types Legend</a> .
<b>Value Domain</b>	This item is applicable only to data elements.
	The name of the <a href="#">Value Domain</a> used to define the range of values of the data element, or a statement describing what values to use in the absence of a defined value domain for the related data element.
	The statement is:
	<p>In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the HL7 code set registration procedure with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.</p> <p>When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.</p>
	This item is applicable only to data elements with data type CodedText or CodeableText.

## Data Hierarchy

The top-level data components (a Structured Document in an SCS or Data Groups in a DCM) contain a data hierarchy. Each row contains information about a single data component. The entries are nested to represent inclusion of one data component in another. Each entry contains at least three occupied cells. The left-most cell contains an icon to indicate the entry's data type. The next cell to the right contains the label of the data component (if the label is different from the name, the name is displayed in brackets after the label). The next cell to the right contains the multiplicity range for the data component.

If a row is shaded grey, this indicates that the data component **SHOULD NOT** be used. This will be because analysis of requirements either did not find reasons to use it or found reasons to not use it.

If the text in a row is in a ~~strike-through~~ font and the multiplicity is 0..0, this indicates that the data component **SHALL NOT** be used. This will be because analysis of requirements found reasons to prohibit the use of it.

In some documents the right-hand side of the data hierarchy contains one or more columns under the heading “Core Requirement”. Each column contains information for one document exchange scenario. A cell that is empty indicates that the data component on that row is **OPTIONAL** to implement. That is, software that creates documents made in conformance with this specification **MAY** exclude the data component, and software that reads documents made in conformance with this specification **MAY** ignore the data component. All other data components **SHALL** be implemented.















## Sample SCS Data Hierarchy



### Note

Items below whose text is lighter (mid-blue and mid-grey) are technical identifiers whose purpose is to facilitate interoperability, sharing of data and secondary use. Typically, such identifiers will be generated internally by systems and not displayed to users since they rarely have clinical significance.

Items below with a grey background are data components that are included in the relevant detailed clinical model specification, but whose use is discouraged in this particular scenario.

 SPECIALIST LETTER			
CONTEXT			
		SUBJECT OF CARE	1..1
		DOCUMENT AUTHOR	1..1
		ENCOUNTER	1..1
		DateTime Subject of Care Seen ( DateTime Health Event Started)	1..1
		DateTime Health Event Ended	0..0
		HEALTHCARE FACILITY	0..0
		Document Instance Identifier	0..1
		RELATED INFORMATION	0..0
		Document Type	1..1
CONTENT			
		RESPONSE DETAILS	1..1
		Diagnosis (PROBLEM/DIAGNOSIS)	0..*
		 Diagnosis Name (Problem/Diagnosis Identification)	1..1
		 Clinical Description	0..0
	and more		

## Value Domain Section Legend

The following table illustrates the layout of the Value Domain section and describes the various parts of the section.

**Table 9: Value Domain Section Legend**

<b>Source</b>	The name of the terminology or vocabulary from which the value domain's permissible values are sourced, e.g. SNOMED CT-AU, LOINC.
<b>Version Number</b>	Version number of the value domain source.
<b>Permissible Values</b>	A specification of the permissible values in the value domain.  This may be a list of codes. (Each code is typically presented as a triple with code values, text equivalent, and description) for example:  1, Registered    No result yet available.  This may be a conformance statement (e.g. "The permissible values are the members of the following seven AMT reference sets: ...").

## Usage Section Legend

The following table illustrates the layout of the Usage section and describes the various parts of the section.

**Table 10: Usage Section Legend**

<b>Examples</b>	Sample values for the data element, with or without notes about sample values.  Where a data element has an associated value domain, examples representative of that domain are used where possible. Where the value domain is yet to be determined, indicative examples are provided.  Implementation guides may contain specific examples of how data elements may be populated and how they relate to each other.  This item is applicable only to data elements.
<b>Conditions of Use</b>	Prerequisites, provisos or restrictions for use of the data component.
<b>Conditions of Use Source</b>	The authoritative source for the Conditions of Use statement.
<b>Misuse</b>	Incorrect, inappropriate or wrong uses of the data component.
<b>Default Value</b>	A common denomination, or at least a usable denomination, from the Value Domain where available or applicable, typically assigned at the creation of an instance of the data component.
<b>Exceptional Values</b>	A statement of limitations on the use of exceptional values, see <a href="#">Exceptional Values</a> .  Unless otherwise specified, all data elements are permitted to have exceptional values. The most common statements constraining exceptional values are:  <ul style="list-style-type: none"> <li>• Abnormal values are <b>PROHIBITED</b>.</li> <li>• Absent values are <b>PROHIBITED</b>.</li> </ul> This item is applicable only to data elements.

## Relationships Section Legend

The Relationships section specifies the cardinality between parent and child data components.

The following table illustrates the layout of the Parent relationships table. Note that the occurrences in the relationships described by this table are from the parent to the child data component, i.e. from the data component listed in the table to the data component described by the section.

**Table 11: Parent Legend**

Data Type	Name	Occurrences (child within parent)
The icon illustrating the metadata type or data type.	Parent Data Component Name	The minimum and maximum number of instances of the data component described on this page that <b>SHALL</b> occur.

The following table illustrates the layout of the Children relationships table.

**Table 12: Children Legend**

Data Type	Name	Occurrences
The icon illustrating the metadata type or data type.	Child Data Component Name	The minimum and maximum number of instances of the data component described on this page that <b>SHALL</b> occur.

# Appendix C. Change History

A summary of changes from one document version to the next. Changes to the change history are excluded.

## C.1 Changes Since Version 1.1 - 18 December 2015

### Generic changes

Various changes to rebrand the document from the National E-Health Transition Authority (NEHTA) to the Australian Digital Health Agency (the Agency):

- Definition Source, Scope Source, Context Source, Condition of Use Source and Value Domain Source updated from “NEHTA” to “Australian Digital Health Agency”;
- references to “National E-Health Transition Authority” and “NEHTA” have been replaced with references to the “Australian Digital Health Agency” and “the Agency” respectively; and
- all NEHTA URLs have been updated to redirect to the Agency website.

### Preliminary Pages

Document Information section has been changed to include the latest release details.

### Chapter 1 Introduction

Various editorial changes to presentation and wording, including replacing the expression “PCEHR” with “My Health Record”.

### Chapter 2 Body Height/Length Detailed Clinical Model

Rebranding changes.

### Chapter 3 Body Weight Detailed Clinical Model

Rebranding changes.

### Chapter 4 Body Part Circumference Detailed Clinical Model

Rebranding changes.

### Chapter 5 Body Mass Index Detailed Clinical Model

Rebranding changes.

## **Appendix A. Known Issues**

Various changes.

## **Appendix B. Specification Guide for Use**

Various editorial changes.

Renamed the section B.4 “Abnormal and Absent Values” to “Exceptional Values” and updated explanatory text throughout accordingly.



# Reference List

- [ABS2009] Australian Bureau of Statistics, 25 June 2009, *1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1*, accessed 28 August 2013.  
<http://www.abs.gov.au/AUSSTATS/abs@.nsf/allprimarymainfeatures/-E8A05691E35F4376CA257B9500138A52?opendocument>
- [ISO2009a] International Organization for Standardization, 14 Jan 2009, *ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists*, Edition 1 (Monolingual), accessed 24 June 2015.  
<https://infostore.saiglobal.com/store/Details.aspx?ProductID=1092099>
- [NEHT2007b] National E-Health Transition Authority, 17 August 2007, *Interoperability Framework*, Version 2.0, accessed 11 July 2016.  
<http://www.digitalhealth.gov.au/implementation-resources/ehealth-foundations/EP-1144-2007/-NEHTA-1146-2007>
- [NEHT2010c] National E-Health Transition Authority, September 2010, *Data Types in NEHTA Specifications: A Profile of the ISO 21090 Specification*, Version 1.0, accessed 11 July 2016.  
<https://www.digitalhealth.gov.au/implementation-resources/clinical-documents/EP-1135-2010/-NEHTA-1136-2010>
- [NEHT2011v] National E-Health Transition Authority, 20 July 2011, *Participation Data Specification*, Version 3.2, accessed 11 Jul 2016.  
<https://www.digitalhealth.gov.au/implementation-resources/clinical-documents/EP-1224-2011/-NEHTA-0794-2011>
- [RFC1521] Network Working Group, 1993, *RFC1521 - MIME (Multipurpose Internet Mail Extensions) Part One*, accessed 17 July 2014.  
<http://www.faqs.org/rfcs/rfc1521.html>
- [RFC2119] Network Working Group, 1997, *Key Words for Use in RFCs to Indicate Requirement Levels*, accessed 29 October 2015.  
<https://tools.ietf.org/html/rfc2119>
- [SA2006a] Standards Australia, 2006, *AS 4846 (2006) – Health Care Provider Identification*, accessed 17 July 2014.  
<http://infostore.saiglobal.com/store/Details.aspx?ProductID=318554>
- [SA2006b] Standards Australia, 2006, *AS 5017 (2006) – Health Care Client Identification*, accessed 17 July 2014.  
<http://infostore.saiglobal.com/store/Details.aspx?ProductID=320426>
- [WALJ2005a] Walker et al., January 2005, *The Value Of Health Care Information Exchange And Interoperability*, *Health Affairs*, 2005, accessed 17 July 2014.  
<http://content.healthaffairs.org/content/early/2005/01/19/hlthaff.w5.10.short>

*This page is intentionally left blank.*

# Index

## A

ANATOMICAL LOCATION, 84  
Anatomical Location Aspect, 94  
Anatomical Location Description, 97  
Anatomical Location Image, 99  
Anatomical Location Name, 86  
Anatomical Plane, 91

## B

BMI Calculation Formula, 146  
BMI Entry Method, 144  
BMI Entry Method Values, 145  
BMI Observation Note, 143  
BODY HEIGHT/LENGTH, 5  
Body Height/Length Instance Identifier, 29  
BODY MASS INDEX, 133, 135  
Body Mass Index Instance Identifier, 153  
Body Mass Index Reference Ranges, 137  
Body Mass Index Value, 136  
Body Part, 84  
BODY PART CIRCUMFERENCE, 81  
Body Part Circumference Instance Identifier, 120  
Body Structure Foundation Reference Set, 87  
BODY WEIGHT, 41  
Body Weight Instance Identifier, 68

## C

CIRCUMFERENCE, 100  
Circumference Reference Ranges, 102  
Circumference Value, 101  
Comment, 15, 51, 108, 143  
CONFOUNDING FACTOR, 18, 56, 109  
Confounding Factor Name, 19, 57, 110  
Confounding Factor Value, 20, 58, 111

## D

Data Element  
Anatomical Location Aspect, 94  
Anatomical Location Description, 97  
Anatomical Location Image, 99  
Anatomical Location Name, 86  
Anatomical Plane, 91  
BMI Calculation Formula, 146  
BMI Entry Method, 144  
BMI Observation Note, 143  
Body Height/Length Instance Identifier, 29  
Body Mass Index Instance Identifier, 153  
Body Mass Index Value, 136  
Body Part Circumference Instance Identifier, 120  
Body Weight Instance Identifier, 68  
Circumference Value, 101  
Confounding Factor Name, 19, 57, 110  
Confounding Factor Value, 20, 58, 111  
DE-11024, 14, 50, 107, 142  
DE-11028, 10, 46, 103, 138  
DE-15561, 27, 66, 118, 151

DE-15600, 15, 51, 108, 143  
DE-16051, 16  
DE-16120, 8  
DE-16125, 44  
DE-16153, 86  
DE-16199, 99  
DE-16319, 97  
DE-16330, 101  
DE-16336, 88  
DE-16338, 90  
DE-16340, 91  
DE-16343, 93  
DE-16345, 94  
DE-16346, 96  
DE-16407, 98  
DE-16574, 13, 49, 106, 141  
DE-16693, 38, 77, 129, 162  
DE-16698, 31, 70, 122, 155  
DE-16699, 34, 73, 125, 158  
DE-16700, 37, 76, 128, 161  
DE-16732, 29  
DE-16735, 68  
DE-16811, 120  
DE-16845, 52  
DE-16846, 54  
DE-16847, 61  
DE-16857, 136  
DE-16859, 144  
DE-16860, 146  
DE-16863, 153  
DE-16950, 19, 57, 110  
DE-16955, 20, 58, 111  
Detailed Clinical Model Identifier, 38, 77, 129, 162  
Distance From Landmark, 96  
Height/Length Value, 8  
Identified Landmark, 93  
Link Nature, 31, 70, 122, 155  
Link Role, 34, 73, 125, 158  
Measurement Comment, 15, 51, 108  
Normal Status, 10, 46, 103, 138  
Numerical Identifier, 90  
Observation DateTime, 27, 66, 118, 151  
Position, 16  
Pregnancy Indicator, 54  
Reference Range, 14, 50, 107, 142  
Reference Range Meaning, 13, 49, 106, 141  
Side, 88  
State of Dress, 52  
Target, 37, 76, 128, 161  
Visual Markings/Orientation, 98  
Weight Estimation Formula, 61  
Weight Value, 44  
Data Group  
ANATOMICAL LOCATION, 84  
BODY HEIGHT/LENGTH, 5  
BODY MASS INDEX, 133, 135  
BODY PART CIRCUMFERENCE, 81  
BODY WEIGHT, 41  
CIRCUMFERENCE, 100  
CONFOUNDING FACTOR, 18, 56, 109

DEVICE, 21, 59, 112  
 DG-10296, 21, 23, 26, 59, 62, 65, 112, 114, 117, 147, 150  
 DG-11024, 12, 48, 105, 140  
 DG-16051, 18, 56, 109  
 DG-16120, 7  
 DG-16123, 5  
 DG-16124, 41  
 DG-16125, 43  
 DG-16150, 84  
 DG-16151, 85  
 DG-16325, 9, 45, 102, 137  
 DG-16330, 100  
 DG-16341, 92  
 DG-16692, 30, 69, 121, 154  
 DG-16808, 81  
 DG-16856, 133  
 DG-16857, 135  
 HEIGHT/LENGTH, 7  
 INFORMATION PROVIDER, 23, 62, 114, 147  
 REFERENCE RANGE, 12, 48, 105, 140  
 REFERENCE RANGE DETAILS, 9, 45, 102, 137  
 RELATED INFORMATION, 30, 69, 121, 154  
 RELATIVE LOCATION, 92  
 SPECIFIC LOCATION, 85  
 SUBJECT, 26, 65, 117, 150  
 WEIGHT, 43  
 Detailed Clinical Model Identifier, 38, 77, 129, 162  
 DEVICE, 21, 59, 112  
 Distance From Landmark, 96

**F**  
Formula, 146

**H**  
HEIGHT/LENGTH, 7  
Height/Length Reference Ranges, 9  
Height/Length Value, 8

**I**  
Identified Landmark, 93  
INFORMATION PROVIDER, 23, 62, 114, 147

**L**  
Laterality Reference Set, 89  
Link Nature, 31, 70, 122, 155  
Link Nature Values, 32, 71, 123, 156  
Link Role, 34, 73, 125, 158  
Link Role Values, 35, 74, 126, 159

**M**  
Measurement Comment, 15, 51, 108  
Method, 144

**N**  
Normal Status, 10, 46, 103, 138  
Numerical Identifier, 90

**O**  
Observation DateTime, 27, 66, 118, 151

**P**  
Position, 16  
Position Values, 17  
Pregnancy Indicator, 54  
Pregnancy Indicator Values, 55

**R**  
REFERENCE RANGE, 12, 48, 105, 140  
Reference Range, 14, 50, 107, 142  
REFERENCE RANGE DETAILS, 9, 45, 102, 137  
Reference Range Meaning, 13, 49, 106, 141  
RELATED INFORMATION, 30, 69, 121, 154  
RELATIVE LOCATION, 92

**S**  
Side, 88  
SPECIFIC LOCATION, 85  
State of Dress, 52  
State of Dress Values, 53  
SUBJECT, 26, 65, 117, 150

**T**  
Target, 37, 76, 128, 161

**V**  
Value Domain  
BMI Entry Method Values, 145  
Body Structure Foundation Reference Set, 87  
Laterality Reference Set, 89  
Link Nature Values, 32, 71, 123, 156  
Link Role Values, 35, 74, 126, 159  
Position Values, 17  
Pregnancy Indicator Values, 55  
State of Dress Values, 53  
VD-16051, 17  
VD-16152, 87  
VD-16312, 89  
VD-16698, 32, 71, 123, 156  
VD-16699, 35, 74, 126, 159  
VD-16844, 53  
VD-16858, 145  
VD-16917, 55  
Visual Markings/Orientation, 98

**W**  
WEIGHT, 43  
Weight Estimation Formula, 61  
Weight Reference Ranges, 45  
Weight Value, 44