

LexEVS Asserted Value Set Detailed Design

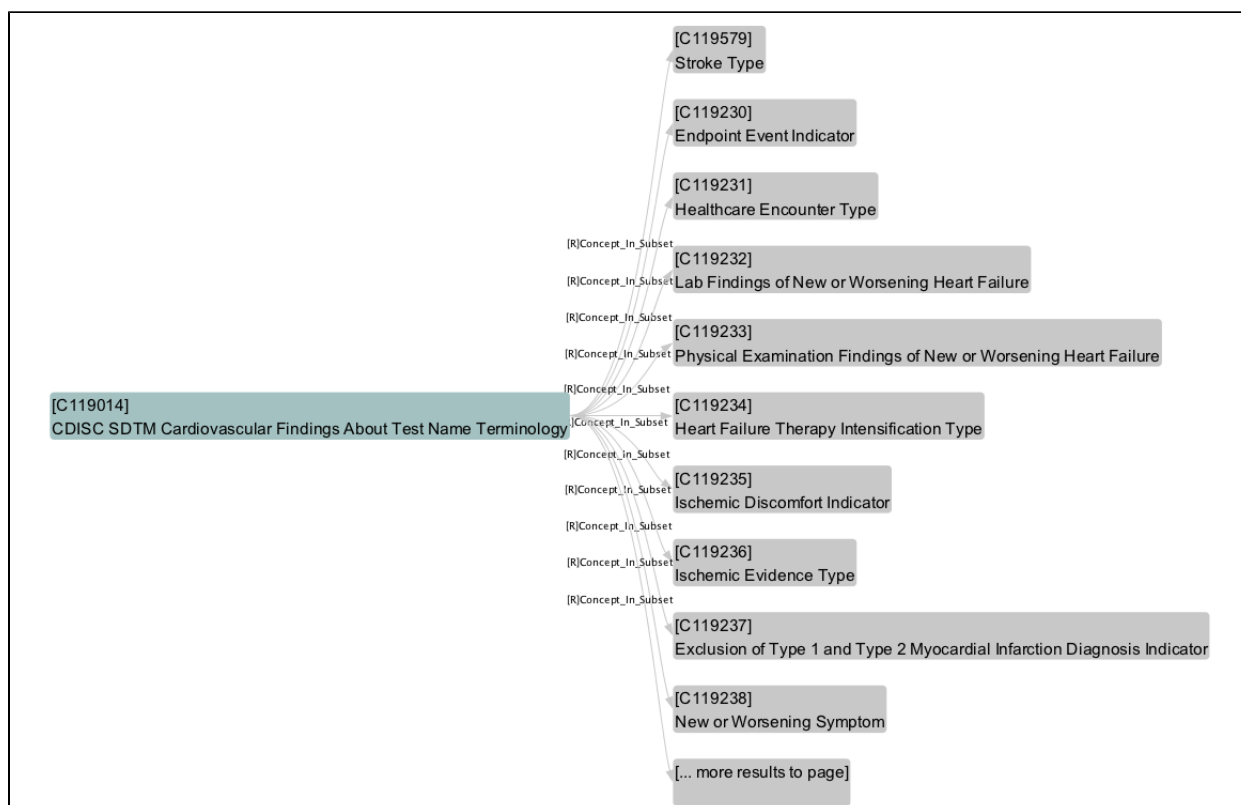
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Asserted Value Sets In LexEVS

Asserted Value Sets are not a formal model element in LexEVS. There is no asserted value set object to instantiate, instead these value set representations are expressed directly in the terminology and represented in ways similar to LexEVS models of Value Set Definitions and Coding Schemes.

Value Sets Asserted In The NCI Thesaurus

Value Sets have been asserted directly in the NCI Thesaurus by creating a set of properties and relationships within the original OWL file to describe a "top node," and a set of related values associated with that node.



The "top node" is a representation of an OWL class that defines a set of properties, which provide human readable metadata about what this classification of values means.

```

Coding Scheme: NCI_Thesaurus - NCI_Thesaurus - 18.03d
Entity Code: C119014
Entity Code Namespace: ncit
Entity Description: CDISC SDTM Cardiovascular Findings About Test Name Terminology
Entity Type: concept
Is Active: true
Is Anonymous: false
Presentation: CVFATS
  Property Name: FULL_SYN
  Property Id: P0004
  Language: en
  Representational Form: PT
  Source: CDISC , Role: null, SubRef: null
Presentation: CDISC SDTM Cardiovascular Findings About Test Name Terminology
  Property Name: FULL_SYN
  Property Id: P0008
  Language: en
  Representational Form: PT
  Source: NCI , Role: null, SubRef: null
Presentation: SDTM-CVFATS
  Property Name: FULL_SYN
  Property Id: P0010
  Language: en
  Representational Form: AB
  Source: NCI , Role: null, SubRef: null
Presentation: Cardiovascular Findings About Test Name
  Property Name: FULL_SYN
  Property Id: P0011
  Language: en
  Representational Form: SY
  Source: CDISC , Role: null, SubRef: null
Presentation: CDISC SDTM Cardiovascular Findings About Test Name Terminology
  Property Name: Preferred_Name
  Property Id: P0012
  Language: en
  Is Preferred: true
Definition: Terminology relevant to the test names that describe findings about a cardiovascular event or intervention.
  Property Name: ALT_DEFINITION
  Property Id: P0009
  Language: en

```

This node, the OWL defined relationships that point to it, and a set of properties key to defining aspects of a value set, allow LexEVS to adequately define this, both in terms of a Value Set Definition, and also as a Coding Scheme object. The API's that work in conjunction with the externally defined value set definitions and resolved value set coding schemes can receive these objects transparently because they are the same type as previously defined for the legacy API. Since these Objects have been adequately defined elsewhere in this documentation set, we won't redefine them here.

Defining Attributes of Value Sets in the Asserting Terminology

Contributing Source: Describes an agency or group that defines the value set

Example:

property name: "Contributing_Source"

property value: "CDISC"

Publish Flag:

Example:

property name: "Publish_Value_Set"

property value: "Yes"

Asserted Value Set Relation: Defines an association between the members of the value set and its "top node" which is usually the target of this relationship

Example: "Concept_In_Subset"

Asserted Value Set Hierarchy: Defines an association between the value set top nodes without defining membership in a value set with nodes above and below any given node in the hierarchy.

Example: "subclassOf"

Concept Domain: An abstraction defining what type conceptual membership is defined semantically for the value set

Example: "Semantic_Type"