Table of some names and uses for Concept Representations

HL7 Nomenclature Used	What is it used as? (in addition to being a Concept Representation)	How is it primarily used in HL7?	Example	
Code	A concept representation intended for use when representing a concept in a computable manner. For example, passing into a decision support tool or for use in data exchange. Some code systems use human-readable mnemonics for these.	Generally carried 'on the wire' in instances of coded attributes of models passed between or shared by different systems	**HL7**: F **LOIN**C: 6690-2 **SNOMED CT**: DE-10116 (IHTSDO Legacy Code)	X100J (IHTSDO Read Code) 233607000 53084003:246075003=9861002 **UCUM**: Litre Mg/L
Concept Id	A concept representation that is unique within the code system and that is used internally by the code system when referencing concepts.	May be used in CD.code, more often used as components of maps and ontologies outside of HL7 interoperability standards. May be the same value as the Code. Some terminologies have more than one of these for each concept. Usually used for internal identification, but may also be used for interfacing. Suggested wording: The Concept Identifier is usually used for internal identification, but may also be used for interfacing. Many code systems use the same value for Concept Code and Concept Identifier, therefore the Concept Identifier may be used in CD.code, however it is more often used as components of maps and ontologies outside of HL7 interoperability standards. Some Code Systems have more than one Concept Identifier for a concept.	**HL7**: F **LOINC**: 6690-2 **SNOMED**: One identifier for three codes: 233607000 DE-10116 X100J 233607000 One identifier per code:	53084003 246075003 9861002 Note: There is no concept identifier for the expression: 53084003:246075003=9861002 **UCUM**: L Note: There is no concept identifier for the expression: Mg/L
Designation	Human consumable representation of the concept; may or may not be a string of characters (could be multimedia); generally subject to language variants.	Human language representation of the concept. A concept has 1..m of these, and they represent the set of candidates for the CD.displayName (v3) or CWE.Text/CWE.Alternate Text (v2). Sometimes used in CWE.Original Text depending upon the application. Often language-dependent, ie a set of English designations, a set of French designations, etc.	**HL7**: F Female Femenino Weiblich **LOINC**: Leukocytes [#/volume] in Blood by Automated Count • WBC #Bld Auto • Leucociti **SNOMED**: Pneumococcal pneumonia (disorder)	Bacterial pneumonia Causative agent (attribute) Streptococcus pneumoniae (organism) **UCUM**: Litre Mg/L