1.0 Common across all value sets

* 1. Overview

The ValueSets created for the PDDI-CDS IG have two categories which include:

1) Grouper – references member ValueSet

2) Member – individual or concept level identifiers

Delineation of the two types of value sets is based on characteristics or hierarchy of the terminology. The Grouper ValueSet references the Member ValueSets as needed for the defined service. For example, non-steroidal anti-inflammatory drugs (NSAIDs) is a class of medications with several members (e.g., ibuprofen, naproxen, diclofenac). The Grouper ValueSet (valueset-NSAIDS) references valueset-ibuprofen, valueset-naproxen, valueset-diclofenac etc. While the Grouper value sets are service specific, the Member value sets are service agnostic, reusable, and amenable to automated updating. Refinement of included concepts occurs in the exclude tag of the Grouper ValueSet, with additional ValueSets. In the situation where a Member ValueSet does not have a Grouper ValueSet, and does not require refinement of included concepts, it may be referenced directly. The Grouper and Member value sets have an Extensional Definition, which is an enumeration of the value set concepts; however, the Member value sets have both and Extensional and Intensional (machine executable) Definition. The Intensional Definition is enumerated in the expansion element.

* 1. Scope
  2. Version and Jurisdiction
  3. Intensional – Content Logical Definition
  4. Extensional – Content Logical Definition
  5. Grouper value sets

2.0

Warfarin + NSAID

* Scope - “description” based on McClure’s discussion, this is not tied to a language or terminology
* Consider changing representation to “identifier” or whatever RxNorm uses
* Version needs to reflect jurisdiction eg. “US 1.0"
* create grouper value set with git url for member value set reference
* Consider defining grouper value set in CDS logic as “under include must refer to another value set, otherwise it is a member value set” or vise versa
* Consider taking out “purpose" for the member value sets
* “copyright" use “creative commons"
* Use of a grouper value set to include multiple “include” elements (member/ingredient) to capture terminology version
* each value set is separated into a single terminology database for intensional definitions
* “description" is to function as scope (not tied to specific terminology except for grouper value set for example defines members (ingredient level) of drug class)
* “purpose” links member value sets to grouper value set
* use of “jurisdiction” tag to signify where value set is to be implemented versus version
* Based on the literature, the topical diclofenac value set includes 1-2% cream, gel, or solution, I excluded percentages above due to one abstract showing 3% had substantially increased blood concentrations
* TODO: query for topical/non-systemic NSAIDs to exclude (refine the comparison for relevant products only) especially corticosteroids since I used ATC for systemic use but not filtered for systemic only (includes creams)
* member value sets are reusable, CDS service agnostic, and are easily amenable to Content Logical Definition that is Intensional (machine executable)
* members of a class are added less frequently than products, and this gets around the manual step between class and member identifiers
* grouper value sets (drug Class level) are targeted at a specific CDS service. “Include” is for all member value sets and “Exclude” is for value sets to refine the terminology (e.g., systemic NSIADs, exclude eye drops, topical) for the purpose

Grouping value sets are indicated with uppercase class name. These reference each member value sets.

US jurisdiction indicated with version US 1.0 and data element “jurisdiction” within ValueSet resource