



Value Set Authority Center
U.S. National Library of Medicine



VSAC Users' Forum

Thursday, October 16

2:00 – 3:00 EDT



Today's Agenda

- Review of September Forum Topics
 - ❖ Intensional Value Set Development
- Demonstration of New VSAC Features
 - ❖ User-requested UMLS CUIs in VSAC
 - ❖ User-requested Text Download Format
 - ❖ User-requested HL7v3 in VSAC
 - ❖ Reorganized Help Documentation
 - ❖ New Video Tutorials
- How to remove ICD-9-CM value sets from groupings.



Intensional Value Set Definitions

Currently you have the ability to author value sets in VSAC by importing an enumerated list of codes or by choosing codes in the VSAC Authoring Tool.

NLM is building additional tooling in VSAC for you to define and build value sets by logical queries into code systems: Intensional Value Sets.

We need your example value sets to help us build this tool.



Example Intensional Queries

- Make a SNOMED CT value set using all the active descendants of code 284009009 “Route of administration (qualifier value)”
- Using RxNorm: Get prescribable oral tablet SCDs with ingredient=**11289** | Warfarin



UMLS CUIs in VSAC

The screenshot shows the VSAC interface with the 'Code Systems' tab selected. A search box is present with a 'Search' button. A dropdown menu is open, listing various code systems, with 'UMLS' highlighted. A red arrow points to the 'UMLS' entry in the dropdown.

Code Systems | UMLS Concepts | My Value Sets

Search by code or term
Query: **Search**

Include inactive codes

Criteria:

Code			
Code	Descriptor	Code System	TTY
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Filter By
Code System:
All
All
CDCREC
CDT
CPT
CVX
HCPCS
HSLOC
ICD10CM
ICD10PCS
ICD9CM
LOINC
RXNORM
SNOMEDCT
SOP
UMLS
HL7V2.5
AdministrativeSex
DischargeDisposition
HL7V3.0
ActStatus



UMLS CUIs in VSAC

Code Systems **UMLS Concepts** My Value Sets

Search by code or term
Query: **Search**

Include inactive codes

Filter By
Code System:
Code System Version:

Criteria:

Code

Add to Value Set Page 0 of 20

<input type="checkbox"/>	Code	Descriptor	Code System	TTY	Property	Active	Code Syst
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Add to Value Set Page 0 of 20



UMLS CUIs in VSAC

Code Systems **UMLS Concepts** My Value Sets

Search by CUI or term
Query: Filter By
Code System Version:

Include inactive CUIs

Click on a CUI to see its concept details in the UMLS. When prompted, login to the UMLS Terminology Services Login screen, then return to your VSAC screen and click on a hyperlinked CUI.

Criteria: acne vulgaris

CUI	Descriptor	TTY	Semantic Type	Active	CS Versio
<input type="checkbox"/>					
<input type="checkbox"/> C0001144	Acne Vulgaris	PN	Disease or Syndrome	Yes	2014AA
<input type="checkbox"/> C0010666	Cystic acne	PT	Disease or Syndrome	Yes	2014AA
<input type="checkbox"/> C1274717	Superficial acne vulgaris	PT	Disease or Syndrome	Yes	2014AA
<input type="checkbox"/> C1274718	Superficial inflammatory acne v	PT	Disease or Syndrome	Yes	2014AA
<input type="checkbox"/> C1274719	Superficial mixed comedonal a	PT	Disease or Syndrome	Yes	2014AA
<input type="checkbox"/> C3485306	ACTIVATED CHARCOAL 30 [hp.	DP	Clinical Drug	Yes	2014AA
<input type="checkbox"/> C3486913	CALENDULA OFFICINALIS FLOW	DP	Clinical Drug	Yes	2014AA
<input type="checkbox"/> C3497894	CARBO ANIMALIS 30 [hp_X] in	DP	Clinical Drug	Yes	2014AA
<input type="checkbox"/> C3692940	SAPONARIA OFFICINALIS ROOT	DP	Clinical Drug	Yes	2014AA
<input type="checkbox"/> C3700622	SILVER NITRATE 8 [hp_X] / ARN	DP	Clinical Drug	Yes	2014AA






UMLS CUIs in VSAC

https://utslogin.nlm.nih.gov/cas/login?service=https%3A%2F%2Futs.nlm.nih.gov%3A443%2F%2Fj_spring_cas_security_check#C00

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Unified Medical Language System®

UMLS Terminology Services

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Username:

Password:

Sign In

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[Forgot Password?](#)



UMLS CUIs in VSAC

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Language System[®]

UMLS Terminology Services Metathesaurus Browser

Welcome back, mmadden

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Search | [Tree](#) | [Recent Searches](#)

Term CUI Code

C0001144

Release:

Search Type:

Source:

- AOD
- AOT
- ATC
- BI
- CCC

Search Results (792)

[: 1 - 1 :]

[C0001144](#) Acne Vulgaris

Basic View | [Report View](#) | [Raw View](#)

Concept: [C0001144] Acne Vulgaris

Semantic Types

[Disease or Syndrome](#) [T047]

Definitions

MSH/MH | A chronic disorder of the pilosebaceous apparatus associated with an increase in sebum secretion. It is characterized by open comedones (blackheads), closed comedones (whiteheads), and pustular nodules. The cause is unknown, but heredity and age are predisposing factors.

Atoms (88) string [AUI / RSAB / TTY / Code]

- acne vulgaris [A1412290/BI/SY/BI00566]
- ACNE VULGARIS [A0385443/CCPSS/PT/0062980]
- acne [A18552577/CHV/PT/0000000641]
- acne vulgaris [A18552578/CHV/SY/0000000641]
- ACNE VULGARIS [A0385444/COSTAR/PT/022]
- Acne vulgaris [A1422090/DMDICD10/PT/L70.0]
- Acne vulgaris [A0388035/ICD10/PT/L70.0]
- Acne vulgaris [A0388036/ICD10AM/PT/L70.0]



Text Format for Downloading Value Sets

Welcome Search Value Sets Authoring Download Help Authoring Guide

Search the NLM Value Set Repository

Query: Enter value set id, codes, words...

Apply Filters Clear Filters

Narrow search results by selecting from pull-down menus below:

CMS eMeasure (NQF Number) Select

Quality Data Model Category Select

Steward Select

Meaningful Use Measures Select

Code System Select

Search Results Value Set Details

Matched Value Sets

Download View Toggle Clear

	Name	Type
<input type="checkbox"/>		Grouping
<input type="checkbox"/>	ACE Inhibitor	Grouping
<input type="checkbox"/>	ACE Inhibitor	Grouping
<input type="checkbox"/>	ADHD Medication	Grouping
<input type="checkbox"/>	AMI	Grouping
<input type="checkbox"/>	Abdominal Hysterectomy	Grouping
<input checked="" type="checkbox"/>	Abnormal Presentation	Grouping

Download Type: Excel
Excel
XML
Text

OK Cancel



Text Format for Downloading Value Sets

Welcome

Search Value Sets

Authoring

Download

Downloadable Resources Table

2014 Clinical Quality eMeasures (eCQMs)

▼ Publication Date: July 01, 2014 (Replaces May 30, 2014 Publication. CMS corrected CMS147v3 measure logic, up-versioning to CMS147v4. Ther

Available Downloads	Sorted by CMS ID	Sorted by Value Set Name
2014 eCQM Value Sets for Eligible Hospitals (EH)	Excel (xlsx) SVS (xml)	Excel (xlsx) SVS (xml) SVS (text)
2014 eCQM Value Sets for Eligible Professionals (EP)	Excel (xlsx) SVS (xml)	Excel (xlsx) SVS (xml) SVS (text)
All 2014 eCQM Value Sets (EP and EH)	Excel (xlsx) SVS (xml)	Excel (xlsx) SVS (xml) SVS (text)
Catalog and changes between 04/01/2014 and 07/01/2014 eCQM releases	Excel (xlsx)	
Retired/Legacy Codes Currently in 2014 eCQM Value Sets	Excel (xlsx)	



Text Format for Downloading Value Sets

WinZip - RetrieveMultipleValueSets.txt.zip

Unzip Edit Share Backup Tools Settings

Folder name: RetrieveMultipleValueSets.txt

Location: \\NLMHome\Users\mmadden\Documents

Unzip

Name	Type
value-set-definitions.txt	TXT File
value-set-codes.txt	TXT File
value-set-code-counts-by-codesystemname.txt	TXT File



value-set-definitions.txt

OID | ValueSetName | Version | Definition

2.16.840.1.113883.3.117.1.7.1.833 | AMI | 20140125 |

(2.16.840.1.113883.3.117.1.7.1.827:AMI ICD-9),

(2.16.840.1.113883.3.117.1.7.1.831:AMI ICD-10)

Explanation:

2.16.840.1.113883.3.117.1.7.1.833 is a Grouping Value Set that contains 2 member value sets:

2.16.840.1.113883.3.117.1.7.1.827 and 2.16.840.1.113883.3.117.1.7.1.827



value-set-codes.txt

OID | ValueSetName | Version | Code | Descriptor | CodeSystemName |
CodeSystemVersion | CodeSystemOID

```
1 2.16.840.1.113883.3.117.1.7.1.833|AMI|20140125|410.00|Acute myocar  
2 2.16.840.1.113883.3.117.1.7.1.833|AMI|20140125|410.01|Acute myocar  
3 2.16.840.1.113883.3.117.1.7.1.833|AMI|20140125|410.10|Acute myocar  
4 2.16.840.1.113883.3.117.1.7.1.833|AMI|20140125|410.11|Acute myocar  
5 2.16.840.1.113883.3.117.1.7.1.833|AMI|20140125|410.20|Acute myocar  
6 2.16.840.1.113883.3.117.1.7.1.833|AMI|20140125|410.21|Acute myocar  
7 2.16.840.1.113883.3.117.1.7.1.833|AMI|20140125|410.30|Acute myocar  
8 2.16.840.1.113883.3.117.1.7.1.833|AMI|20140125|410.31|Acute myocar  
9 2.16.840.1.113883.3.117.1.7.1.833|AMI|20140125|410.40|Acute mvocar  
10
```

This text file will contain a complete list of all the codes and descriptors in a value set.



value-set-code-counts-by- codesystemname.txt

```
OID | ValueSetName | CodeSystemName | NumberOfCodes  
2.16.840.1.113883.3.117.1.7.1.833 | AMI | ICD10CM | 9  
2.16.840.1.113883.3.117.1.7.1.833 | AMI | ICD9CM | 20
```

This text file is useful for checking the number of codes in each value set within a grouping value set, and this count can serve to alert you to changes in the membership of the value set which you will want to investigate.



value-set-code-counts-by- codesystemname.txt

```
OID | ValueSetName | CodeSystemName | NumberOfCodes  
2.16.840.1.113883.3.117.1.7.1.833 | AMI | ICD10CM | 9  
2.16.840.1.113883.3.117.1.7.1.833 | AMI | ICD9CM | 20
```

This text file is useful for checking the number of codes in each value set within a grouping value set, and this count can serve to alert you to changes in the membership of the value set which you will want to investigate.



HL7 Code Systems Now in VSAC

HL7 v3 code systems:

ActStatus 2.16.840.1.113883.5.14

LanguageAbilityProficiency 2.16.840.1.113883.5.61

LivingArrangement 2.16.840.1.113883.5.63

RoleStatus 2.16.840.1.113883.5.1068

Observation Interpretation 2.16.840.1.113883.5.83

RoleCode 2.16.840.1.113883.5.111

ParticipationMode 2.16.840.1.113883.5.1064



HL7 Code Systems Now in VSAC

Code Systems | UMLS Concepts | My Value Sets

Search by code or term
Query:

Include inactive codes

Criteria:

Code			
Code	Descriptor	Code System	TTY
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Filter By
Code System:

- All
- HCPCS
- HSLOC
- ICD10CM
- ICD10PCS
- ICD9CM
- LOINC
- RXNORM
- SNOMEDCT
- SOP
- UMLS
- HL7V2.5**
 - AdministrativeSex
 - DischargeDisposition
- HL7V3.0**
 - ActStatus**
 - LanguageAbilityProficiency
 - LivingArrangement
 - ObservationInterpretation
 - ParticipationMode
 - RoleCode
 - RoleStatus



Old VSAC Help Pages



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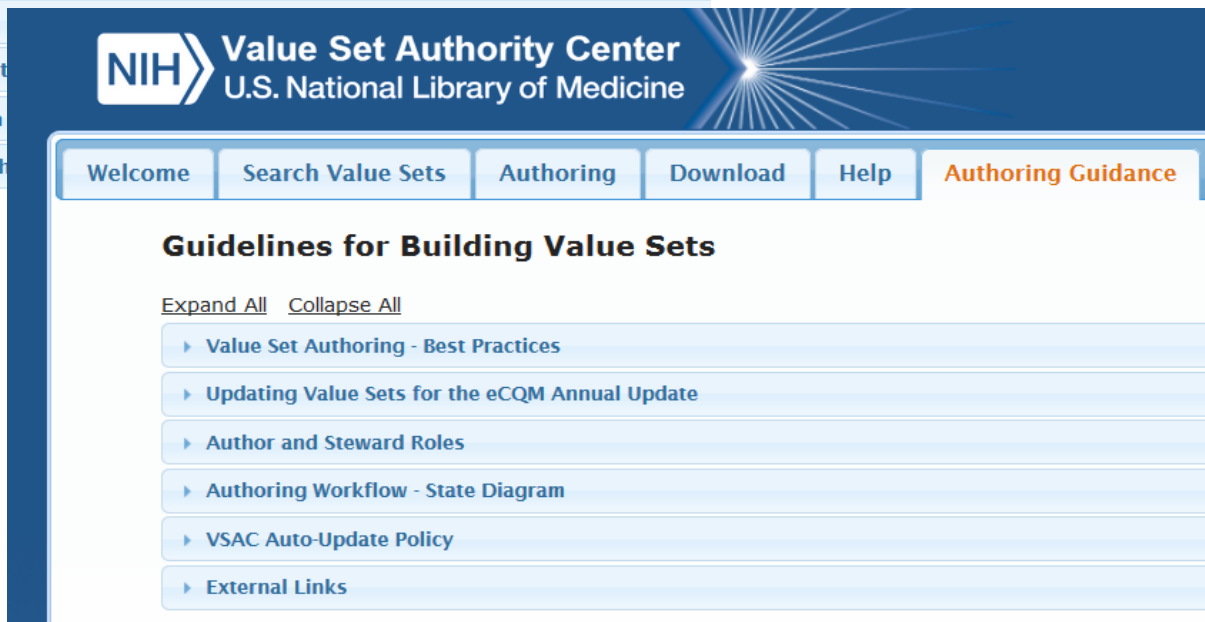
Welcome Search Value Sets Authoring Download Help Authoring Guidance

VSAC Quick Start Guide

If you require assistance with the VSAC, please contact NLM's [customer support](#).

[Expand All](#) [Collapse All](#)

- ▶ Getting Started with VSAC
- ▶ Using the VSAC REST API
- ▶ Searching the VSAC with a
- ▶ Register to become an auth



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Guidelines for Building Value Sets

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- ▶ Value Set Authoring - Best Practices
- ▶ Updating Value Sets for the eCQM Annual Update
- ▶ Author and Steward Roles
- ▶ Authoring Workflow - State Diagram
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New VSAC Help Pages

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The Value Set Authority Center (VSAC) is provided by the National Library of Medicine (NLM), in collaboration with the Office of the National Coordinator for Health Information Technology and the Centers for Medicare & Medicaid Services.

The VSAC provides downloadable access to all official versions of vocabulary value sets contained in the 2014 Clinical Quality Measures (CQMs). Each value set consists of the numerical values (codes) and human-readable names (terms), drawn from standard vocabularies such as SNOMED CT®, RxNorm, LOINC and ICD-10-CM, which are used to define clinical concepts used in clinical quality measures (e.g., patients with diabetes, clinical visit).

The content of the VSAC will gradually expand to incorporate value sets for other use cases, as well as for new measures and updates to existing measures.

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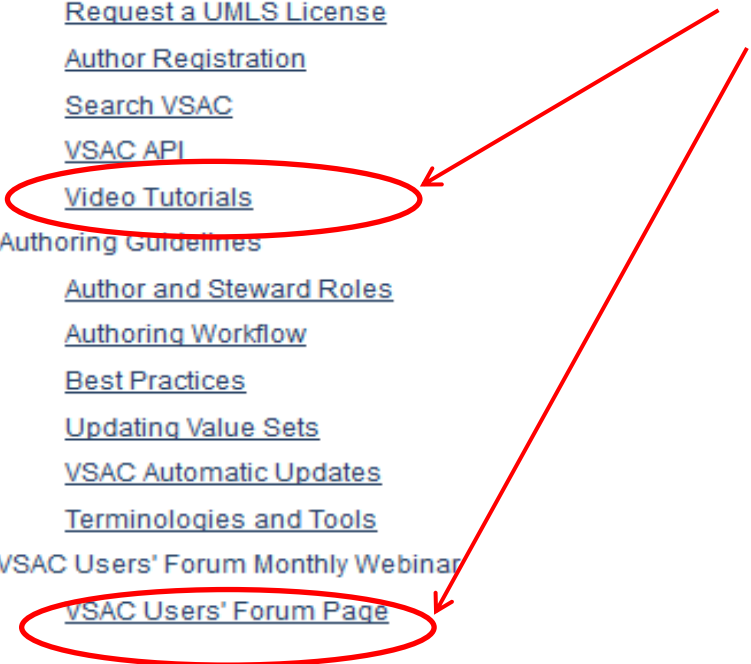
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• [Adding Queried Codes to Value Sets](#)

• [Importing Multiple Codes Into Value Sets](#)



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Updating Value Sets.

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The VSAC Team aims to gather feedback from current and potential users about your questions, needs, use cases and experiences as well as to present ongoing VSAC development and future functionality.

Upcoming Webinars

October 16, 2014, 2:00 PM – 3:00 PM EDT

November 13, 2014, 2:00 PM – 3:00 PM EDT

Participate in a Webinar

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Participants calling from the United Kingdom: Phone 0-800-358-6385 Passcode: 395 924 6190

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Archived Webinars

September 18, 2014

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August 28, 2014

- [Agenda](#)
- [Webinar Recording](#)
- [Slides](#)



How to Remove ICD-9-CM Value Sets from Grouping Value Sets

(if this is required by the CMS eCQM Annual Update)

1. In VSAC, click on the Authoring tab.
2. Open the My Value Sets Section
3. Enter filters into the text boxes under each column heading. Here are suggestions:
 - a. Type = Grouping
 - b. Code System = ICD9CM
 - c. Steward = your steward group
 - d. Author = your author group
 - e. Status = Published
4. Click on the OID that you need to edit
5. Click the New Version button
6. In the Grouping Value Set table, select the checkbox for all ICD9CM member value sets.
7. Click the “trash” icon at the top of the table to remove these value sets from the Grouping.
8. Click the Save button, then Submit, Approve, and Publish as usual.



VSAC Share Beta Test Volunteers

Volunteer to be a beta tester for the VSAC Share Collaboration site. We need your input in order to make a good tool for you.

Testing will require only a couple hours and will take place during December.

Sign up now: maureen.madden@nih.gov



Questions?

Send comments, questions, ideas and *intensional value sets* to:

custserv@nlm.nih.gov

(place VSAC in the subject line)

Upcoming VSAC Users' Forums:

November 13, 2014

December 18, 2014