



# ***VSAC***

**Wednesday, Aug. 12, 2015**  
**10:30 – 11:30 AM**



- VSAC QA static cycle:
  - ❖ Entire Package Processing
  - ❖ Assessment of dependencies: versions, value sets vs. measures
  - ❖ Assessment of grouping value sets' components
- QA cycle repeated for each new MAT extract:
  - ❖ Logic (HQMF)
  - ❖ Value set content (wrong use of valid codes, versions of code/systems, etc.)



What can be done to improve this process?

1. One-piece flow (per measure) QA:
  - a) Authoring Value Set (VSAC with MAT)
  - b) Verify Logic (Cypress)
  - c) Simulate (Bonnie)
2. QA of interdependencies: less complication
3. Outcome: avoid entire package QA



- New Tools and Improvement
  - VSAC Collaboration Service
  - Expansion Service Improvement
  - Workflow Improvement
  - UI Improvement



**Purpose:**

VSAC stakeholders need tooling that supports more interactive and centralized collaboration among VSAC authors and stewards as well as notification of changes.



## What does VSAC Collaboration do?

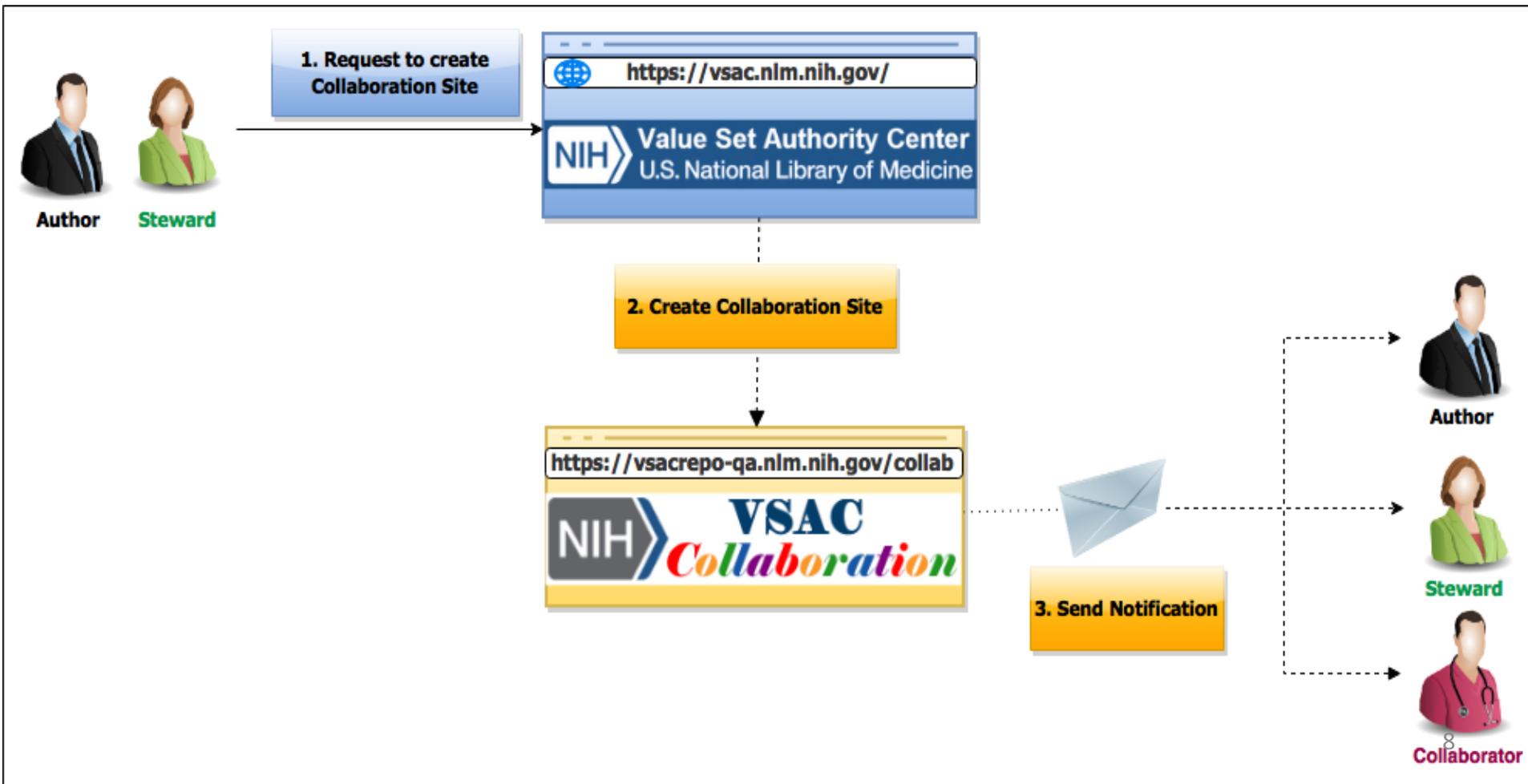
VSAC Collaboration provides a central site for teams to share threaded discussions about value sets, view recent value set expansions posted by members, organize value sets by usage and by team's workflow needs, and receive activity and change notifications from VSAC.



- Collaboration Sites
  - Based on one Value Set
  - Based on multiple Value Sets
  - Based on one Measure (HQMF)

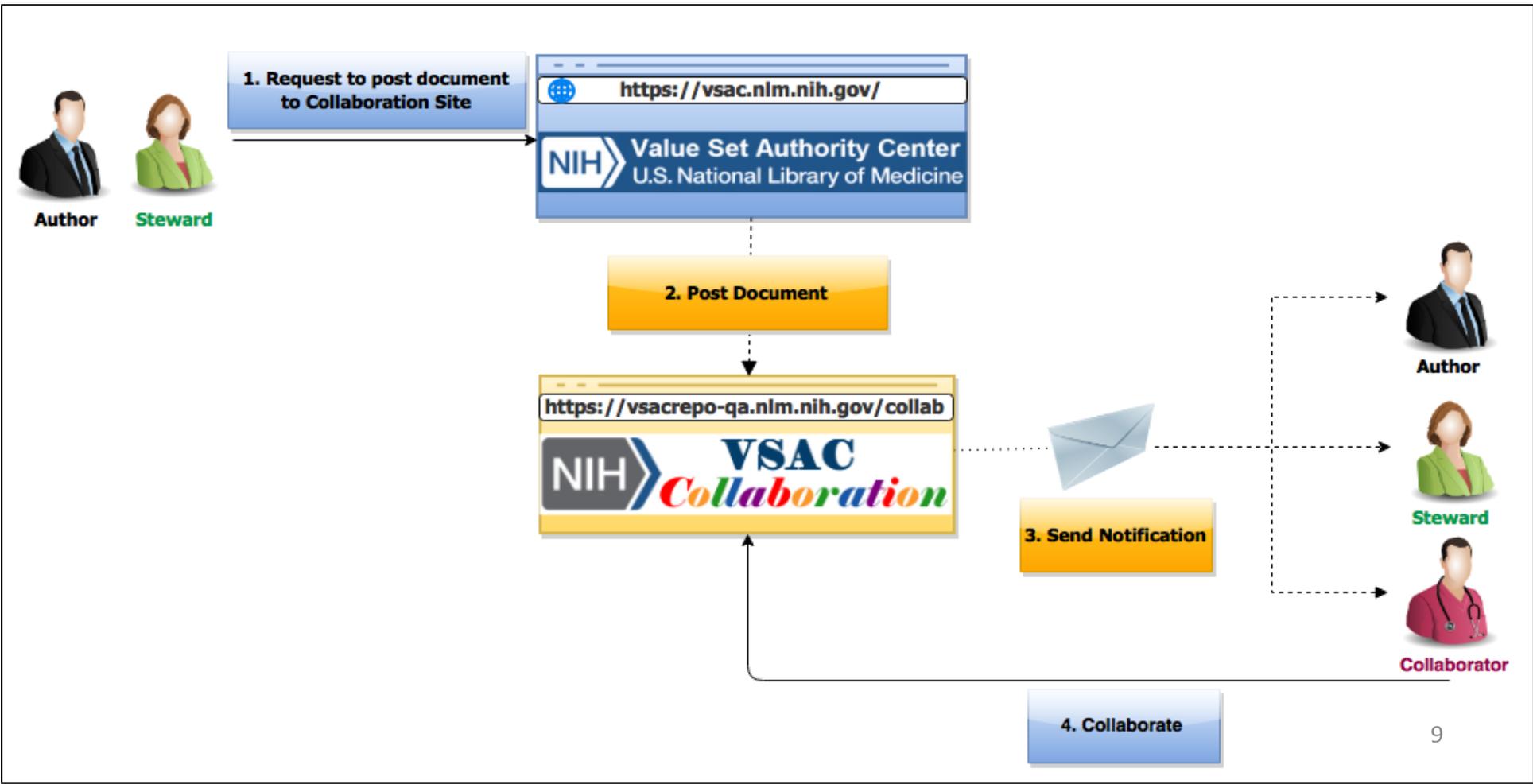


# From VSAC: Create a Collaboration Content Site for a Value Set





# From VSAC: Post Value Set Documents to a Collaboration Content Site





## How do memberships and permissions work?

- All members of a value set's author group and steward group are automatically members of each value set's collaboration site.
- The steward can manage the members of the collaboration site and invite additional members if they wish.
- Anyone can request membership to a site, and a steward can approve it.
- The steward can restrict or open membership as they wish, and the steward can create a private or open group as they wish.



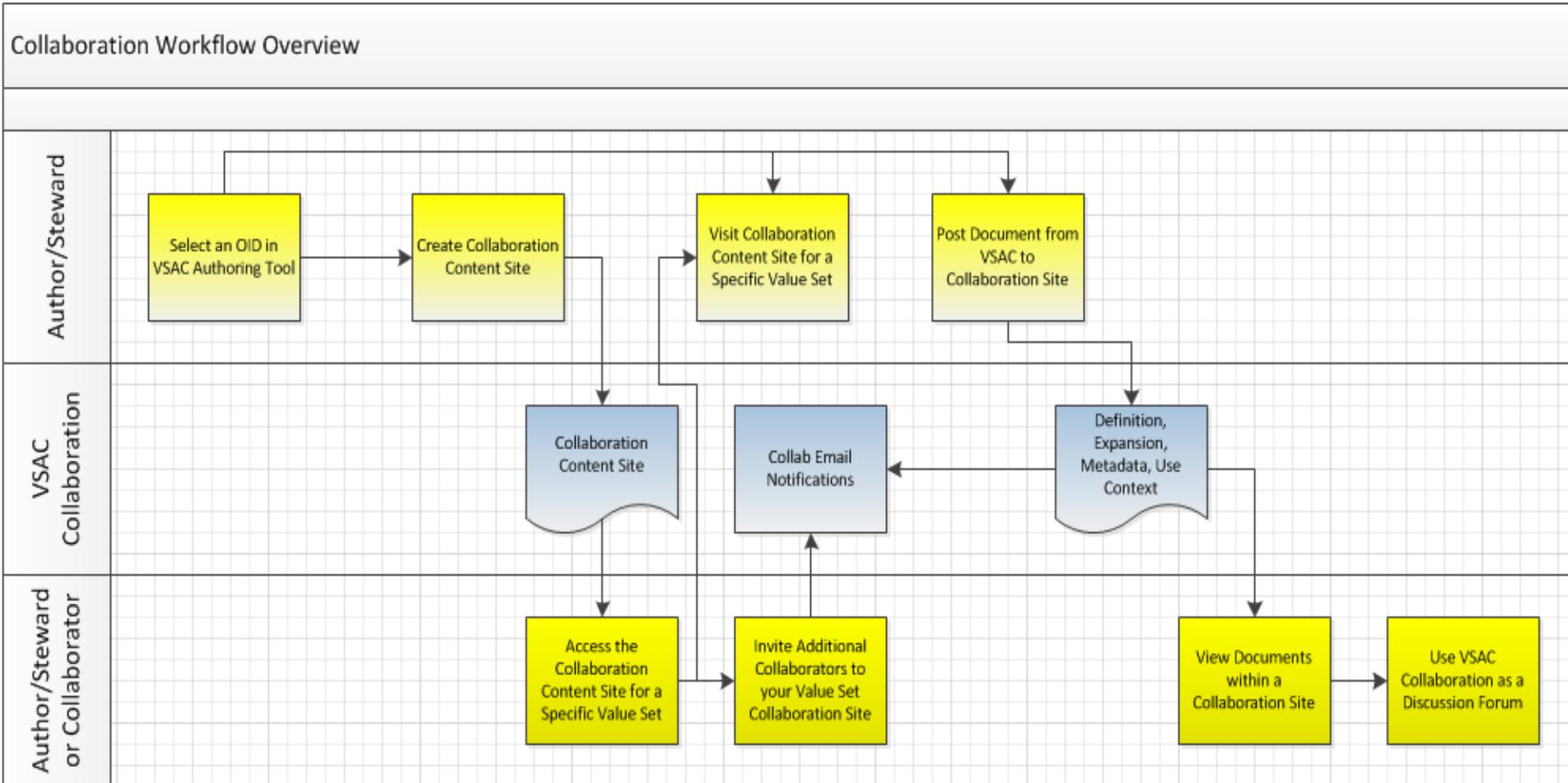
# Overview of the Upcoming VSAC Collaboration Tool

The screenshot shows a login form for the VSAC Collaboration tool. At the top left is the NIH logo, followed by the text "VSAC Collaboration" where "VSAC" is in blue and "Collaboration" is in a multi-colored font. Below this are two input fields: "User Name" and "Password". Under the "Password" field is an orange "Login" button. At the bottom of the form, there is a copyright notice: "© U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda, MD 20894".

UMLS  
User Name  
and  
Password



# Collaboration Workflow Overview





# Various Collaboration Workflow Descriptions

- Create a single value set site with default dashboard and members
- Upload value set content
- View value set content within collaboration site
- Invite collaborators to be collaboration content site members
- Add comments, reply to comments
- Add new topics in addition to default topics
- Organize a vote and cast votes to attain consensus on content
- Create a content site based on collections of value sets (in development)
- Create a content site based on steward-defined keywords (in development)



# Select an OID in VSAC Authoring Tool

Welcome Search Value Sets **Authoring** Download

Help

## Value Sets

Create a Value Set ?

Group Existing Value Sets ?

### My Value Sets

[Export Search Results\(Excel\)](#)

#### My Value Sets

Download Excel Refresh Clear Filter

Page 1 of 1 20

View 1 - 1 of 1

<input type="checkbox"/>	Name	Type	Code System	Steward	Author	OID	Latest Version	Updated Date	Status
<input type="checkbox"/>									
<input type="checkbox"/>	Type 1 Diabetes Findings	Extensional	SNOMEDCT	VSAC Collab	VSAC Collab	<u>2.16.840.1.113762.1.4.1121.1</u>		2015-07-21	Draft

Page 1 of 1 20

View 1 - 1 of 1

Search All Value Sets

My Program Releases





# Create a Collaboration Content Site from within the VSAC Authoring Tool

The screenshot shows the VSAC Authoring Tool interface. At the top, there are tabs for 'Value Sets' and 'Type 1 Dia...'. Below this is a navigation bar with 'Collaboration', 'Harmnization', and 'Report' dropdown menus. The main content area is divided into several sections:

- Create Site...:** A red arrow points to this option. Other options include 'Visit Site' and 'Post Document... | 21...'. To the right, there are fields for 'Definition Version: Draft' and 'Status: Draft'.
- Note:** A large empty text box.
- Purpose:** A link labeled 'Show'.
- Type:** 'Extensional'.
- Code System:** 'SNOMEDCT'.
- Steward:** 'VSAC Collab Demo Steward'.
- Author:** 'VSAC Collab Demo Author'.
- Code System Version:** '2015-03'.

At the bottom, there is a 'Value Set Code List' section with a table of codes and descriptors. The table has columns for 'Code', 'Descriptor', 'TTY', 'Property', and 'Status'. The table shows three rows of data:

Code	Descriptor	TTY	Property	Status
290002008	Brittle type I diabetes mellitus (finding)	FN		Active
444073006	Type I diabetes mellitus uncontrolled (finding)	FN		Active
444074000	Type I diabetes mellitus well controlled (finding)	FN		Active

Below the table are buttons for 'Edit', 'Submit', 'Clone', and 'Delete'. The interface also includes pagination controls for 'Page 1 of 1' and 'View 1 - 3 of 3'.



Post a Document  
from VSAC to your  
Value Set's  
Collaboration Site

Value Sets | Type 1 Dia... ✕

Collaboration ▾ | Harmonization ▾ | Report ▾

Create Site... | Definition Version: Draft ▾ | Status: Draft

Visit Site | Note:

**Post Document...** ← 1.1

Purpose: [Show](#)

Type: Extensional | Steward: VSAC Collab Demo Steward | Author: VSAC Collab Demo Author

Code System: SNOMEDCT | Code System Version: 2015-03

Value Set Code List

+ | - | ↻ | ⌂ | Import | Validate | Page 1 of 1 | 20 ▾ | View 1 - 3 of 3

<input type="checkbox"/>	Code	Descriptor	TTY	Property	Status
<input type="checkbox"/>					
<input type="checkbox"/>	<a href="#">290002008</a>	Brittle type I diabetes mellitus (finding)	FN		Active
<input type="checkbox"/>	<a href="#">444073006</a>	Type I diabetes mellitus uncontrolled (finding)	FN		Active
<input type="checkbox"/>	<a href="#">444074000</a>	Type I diabetes mellitus well controlled (finding)	FN		Active

Page 1 of 1 | 20 ▾ | View 1 - 3 of 3

Edit | Submit | Clone | Delete



From within the VSAC Authoring Tool, Access the Collaboration Content Site for a Specific Value Set

Value Sets **Type 1 Dia...**

Collaboration Harmonization Report

Create Site...  
**Visit Site**  
Post Document...

Definition Version: Draft  
Status: Draft

Note:

Purpose: [Show](#)

Type: Extensional  
Code System: SNOMEDCT

Steward: VSAC Collab Demo Steward  
Author: VSAC Collab Demo Author  
Code System Version: 2015-03

Value Set Code List

+ Import Validate Page 1 of 1 20 View 1 - 3 of 3

Code	Descriptor	TTY	Property	Status
<input type="checkbox"/>				
<input type="checkbox"/> 290002008	Brittle type I diabetes mellitus (finding)	FN		Active
<input type="checkbox"/> 444073006	Type I diabetes mellitus uncontrolled (finding)	FN		Active
<input type="checkbox"/> 444074000	Type I diabetes mellitus well controlled (finding)	FN		Active

Page 1 of 1 20 View 1 - 3 of 3

Edit Submit Clone Delete



# Login to VSAC Collaboration to Access the Content Site for a Specific Value Set

Home My Files Shared Files Sites Tasks People Maureen Madden Search files, people, sites

NIH VSAC Collaboration Type 1 Diabetes Findings Site Dashboard Document Library Links Discussions More

Wiki - Main Page Collaborate and communicate about this value set. Check this box for announcement value set steward.

Value Set Site Content

File	Location	Creator	Created Date	Modifier	Modified Date
Findings(2015-07-21)	/Definition	Vsac Admin	21 Jul 2015 08:41:17 GMT-0400 (EDT)	Vsac Admin	21 Jul 2015 08:41:17 GMT-0400 (EDT)
	/Definition	Vsac Admin	21 Jul 2015 08:41:01 GMT-0400 (EDT)	Vsac Admin	21 Jul 2015 08:41:01 GMT-0400 (EDT)

Discussion Threads

All Topics Topics updated in the last day New Topic

- Value Set Usage Created by Vsac Admin 2 minutes ago.
- Value Set Purpose Created by Vsac Admin 2 minutes ago.
- Value Set Content Created by Vsac Admin 2 minutes ago.

UMLS User Name and Password

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# View Documents within a Value Set's Collaboration Content Site

Home My Files Shared Files Sites Tasks People Maureen Madden Search files, people, sites

NIH VSAC Collaboration Type 1 Diabetes Findings Site Dashboard Document Library Links Discussions More

### Wiki - Main Page

Collaborate and communicate about this value set.

Check this box for announcements from the value set steward.

### Value Set Site Content

File	Location	Creator	Created Date	Modifier	Modified Date
Type1DiabetesFindings(2015-08-13).xlsx	/Definition	Vsac Admin	21 Jul 2015 08:41:17 GMT-0400 (EDT)	Vsac Admin	21 Jul 2015 08:41:17 GMT-0400 (EDT)
5fb40b10-3534-4c4d-9397-3603d29e8a49	/Definition	Vsac Admin	21 Jul 2015 08:41:01 GMT-0400 (EDT)	Vsac Admin	21 Jul 2015 08:41:01 GMT-0400 (EDT)

### Discussion Threads

All Topics

Topics updated in the last day

+ New Topic

- Value Set Usage  
Created by Vsac Admin 2 minutes ago.
- Value Set Purpose  
Created by Vsac Admin 2 minutes ago.
- Value Set Content  
Created by Vsac Admin 2 minutes ago.



# View and Export Documents from within a Value Set's Collaboration Content Site



Type 1 Diabetes Findings

Export document to your local environment

Documents > Definition

Type1DiabetesFindings(2015-07-21 08-41-13).xlsx 1.0

Modified by Vsc Admin on Tue 21 Jul 2015 08:41:17 | Favorite | Like 0 | Comment | Share



<b>Code System</b>	SNOMEDCT			
<b>Code System Version</b>	2015-03			
<b>Code System OID</b>	2.16.840.1.113883.6.96			
<b>Code</b>	<b>Descriptor</b>	<b>TTY</b>	<b>Property</b>	<b>Status</b>
290002008	Brittle type I diabetes mellitus (finding)	FN		Active
444073006	Type I diabetes mellitus uncontrolled (finding)	FN		Active
444074000	Type I diabetes mellitus well controlled (finding)	FN		Active



# View Site Members for a Collaboration Content Site

Home My Files Shared Files Sites Tasks People Maureen Madden Search files, people, sites

NIH VSAC Collaboration Type 1 Diabetes Findings Site Dashboard Document Library Links Discussions More Wiki Calendar Site Members

Wiki - Main Page  
Collaborate and communicate about this value set.  
Check this box for announcements from the value set steward.

File	Location	Creator	Created Date	Modifier	Modified Date
Type1DiabetesFindings(2015-07-21 08-41-13).xlsx	/Definition	Vsac Admin	21 Jul 2015 08:41:17 GMT-0400 (EDT)	Vsac Admin	21 Jul 2015 08:41:17 GMT-0400 (EDT)
5fb40b10-3534-4c4d-9397-3603d29e8a49	/Definition	Vsac Admin	21 Jul 2015 08:41:01 GMT-0400 (EDT)	Vsac Admin	21 Jul 2015 08:41:01 GMT-0400 (EDT)

Discussion Threads  
All Topics Topics updated in the last day New Topic  
Value Set Usage Created by Vsac Admin 2 minutes ago.  
Value Set Purpose Created by Vsac Admin 2 minutes ago.

Each value set content site is automatically populated by all author and stewards for the value set. Every member of the value set's steward group can act as the manager of the value set content site. Site managers can: change Collab roles for each member within the Collab site; remove specific site members from the Collab site; invite external people into the Collab site; approve or reject invitation requests.



# Invite Additional Collaborators to Your Value Set Collaboration Site

Home My Files Shared Files Sites Tasks People Maureen Madden Search files, people, sites

NIH VSAC Collaboration Type 1 Diabetes Findings Site Dashboard Document Library Links Site Members More

People Groups Pending Invites

Search for Site Members

Search [Invite People](#)

	Andrea Demsey	Steward	Remove
	Maureen Madden	Steward	Remove
	Vsac Admin	Steward	Remove



# Search, Invite, Set Roles

Home My Files Shared Files Sites Tasks People Maureen Madde

NIH VSAC Collaboration Type 1 Diabetes Findings Site Dashboard Document Library

People Groups Pending Invites

1 Search for People

Rob McClure Search

Robert McClure Add >>

2 Invite Users

Set All Roles to ▾

Users added here will be invited

...Add External Users

First Name: Last Name: Email:

...Or, add collaborators who are not registered as VSAC authors or stewards

ite or back to Site Members



# VSAC Collaboration Discussion Forum: Each Content Site Automatically Populates with Default Topics

The screenshot shows a web interface for "Discussion Threads". At the top, there is a header with a question mark icon. Below the header, there are two dropdown menus: "All Topics" and "Topics updated in the last 28 days". To the right of these menus is a "New Topic" button with a plus sign icon. Below the filters, there is a list of three topics, each with a user icon, a title, and a creation date:

Topic Title	Created by	Created
Value Set Usage	Vsac Admin	6 days ago.
Value Set Purpose	Vsac Admin	6 days ago.
Value Set Content	Vsac Admin	6 days ago.



# All Site Members Can Participate in Discussion Forums and Create New Topics



## Value Set Usage

Created on: Fri 10 Jul 2015 11:14:57 Author : Vvac Admin  
Replies: None

Vvac Admin said:  
Value Set Usage

Replies: (2) | Tag: remapped codes demonstration, 2.16.840.1.113762.1.4.1018.119

- Reply
- Edit
- Delete



Maureen Madden said:

Team: let's discuss how this value set will be used in the measure we are developing.

Replies: (1) | Posted on: Thu 16 Jul 2015 16:03:46

- Reply
- Edit



Maureen Madden said:

Should we use this value set in Measure A or in Measure B, or in both measures?

Replies: (0) | Posted on: Thu 16 Jul 2015 16:04:47

- Reply
- Edit



# VSAC Collaboration will Send Email Notifications to Collab Site Members

- Dropped codes due to code system updates
- Recent activities (member comments, votes, role changes)
- Document upload
- Collab Site Invitation
- Vote on Collab Site Content



- Create a Collaboration site by steward defined keywords



- Create keywords

Create keywords through User Preference Page

Welcome back, [umlsquest](#)  
Sign Out | Author Registration | Contact Us

Download

### Center (VSAC)

Library of Medicine (NLM), in collaboration with...

vocabulary **value sets** contained in the 2014...  
rawn from standard vocabularies such as SNOMED...  
ients with diabetes, clinical visit).

ie sets for other use cases, as well as for new...

[Clinical Language System@ Metathesaurus Li...](#)

QMs and value set names.

#### User Preference

Username: umlsquest  
Author: VSAC-Author, Optum Author  
Steward: ADVault, Lantana, Optum Steward  
Lantana

#### My Keywords

<input type="checkbox"/>	Keyword	Steward
<input type="checkbox"/>	CCDA	ADVault
<input type="checkbox"/>	CMS500	Lantana
<input type="checkbox"/>	key1	Lantana
<input type="checkbox"/>	key2	Optum Steward

Page 1 of 1 View 1 - 4 of 4



Link Value Set to keywords

Welcome Search Value Sets **Authoring** Collaboration Download

Value Sets **Dextrometh...** ✕

Value Set Details:

- OID: 2.16.840.1.113762.1.4.1018.105
- Name: Dextromethorphan example
- Steward: VSAC-TEST
- Type: Extensional
- Author: VSAC-AUTHOR
- Keyword: **CMS100v4, NCOA\_Key, 2014\_EH**

History

Version	Date	Author	Steward
20150501	2015-05-01	AMA-PCPI	AMA-PCPI Author

Expansion Schedule

Expansion Version	Version Label	Status
My RXNORM Expansion	RXNORM-Monthly-Update	Active
MU2 Update 2015-05-01	MU2 Update 2015-05-01	Suspended

Value Set Code List

Code
200052
250826
790451



- Select value sets by keywords, then create Collab site

Assign a keyword to multiple value sets

Create a Collab site including selected value sets

The screenshot shows the 'My Value Sets' interface. At the top, there are two buttons: 'Assign Keyword' and 'Create Collab Site'. Below these is a table with the following columns: Name, Type, Code System, Steward, Author, OID, Keyword, and Latest Version. The table contains several rows of value sets, including 'Dextromethorphan example', 'collab test file', 'Restassured Test', 'test', and 'Are you able to reach and get down a 5'. The 'Assign Keyword' button is highlighted with a red arrow pointing to it from the text box 'Assign a keyword to multiple value sets'. The 'Create Collab Site' button is also highlighted with a red arrow pointing to it from the text box 'Create a Collab site including selected value sets'.

	Name	Type	Code System	Steward	Author	OID	Keyword	Latest Version
<input type="checkbox"/>								
<input type="checkbox"/>	Dextromethorphan example	Extensional	RXNORM	VSAC-TEST	VSAC-AUTH	<a href="#">2.16.840.1.113762.1.4.1018.105</a>	CCDA	
<input type="checkbox"/>	collab test file	Extensional	RXNORM	VSAC STEW	VSAC-AUTH	<a href="#">2.16.840.1.113762.1.4.1018.741</a>	CMS500	
<input type="checkbox"/>	Restassured Test	Extensional	ICD9CM	VSAC STEW	VSAC-AUTH	<a href="#">2.16.840.1.113762.1.4.1018.378</a>	CMS500	
<input type="checkbox"/>	test	Extensional	RXNORM	VSAC STEW	VSAC-AUTH	<a href="#">22222.22222.22222222333333</a>	CMS500	
<input type="checkbox"/>	test	Extensional	RXNORM	VSAC STEW	VSAC-AUTH	<a href="#">22222.22222.22222222</a>	CMS500	
<input type="checkbox"/>	Are you able to reach and get down a 5	Extensional	LOINC	NCQA PHEN	VSAC-AUTH	<a href="#">2.16.840.1.113762.1.4.1018.700</a>	CCDA	
<input type="checkbox"/>	test	Extensional	NullFlavor	ASU BMI St	VSAC-AUTH	<a href="#">2.16.840.1.113762.1.4.1018.655</a>		



- “My Collaboration” page to manage VSAC and VSAC Collaboration transactions

Welcome Search Value Sets Authoring **Collaboration** Download

My Collaboration Sites Advance Directive Type Code

My Collaboration Sites

+ Page 1 of 2

<input type="checkbox"/>	Name	Type	Steward	Updated Date	URL
<input type="checkbox"/>	CMS Measure 145v3	Multiple	Optum Steward	2015-05-31	<a href="https://vsacadmin-dev.nlm.nih.gov/collab/page/site/???/dashboar">https://vsacadmin-dev.nlm.nih.gov/collab/page/site/???/dashboar</a>
<input type="checkbox"/>	AdvanceDirectiveTypeCode	Single	NCQA	2015-07-20	<a href="https://vsacadmin-dev.nlm.nih.gov/collab/page/site/2x16x840x1">https://vsacadmin-dev.nlm.nih.gov/collab/page/site/2x16x840x1</a>
<input type="checkbox"/>	Carcinoembryonic Antigen Negative	Single	NCQA	2015-04-20	<a href="https://vsacadmin-dev.nlm.nih.gov/collab/page/site/2x16x840x1">https://vsacadmin-dev.nlm.nih.gov/collab/page/site/2x16x840x1</a>
<input type="checkbox"/>	Stage I Colon Cancer	Single	NCQA	2015-03-20	<a href="https://vsacadmin-dev.nlm.nih.gov/collab/page/site/2x16x840x1">https://vsacadmin-dev.nlm.nih.gov/collab/page/site/2x16x840x1</a>
<input type="checkbox"/>	Non Hodgkin Lymphoma	Single	VSAC-Steward	2015-10-12	<a href="https://vsacadmin-dev.nlm.nih.gov/collab/page/site/2x16x840x1">https://vsacadmin-dev.nlm.nih.gov/collab/page/site/2x16x840x1</a>

Page 1 of 2

Post Value Set Details Create Site using HQMF Delete



- Create a Collaboration site by a Measure (HQMF) – In progress

Suggestions?



- Expansion Service Improvement

- ❖ Current expansion service

- Package Release, e.g. MU2 Annual Update
- VSAC automatic expansions

- ❖ New expansion schedule service

- Optional
- Stewards can fine-tune how/when/where expansions are generated to fit business needs
- Flexible schedule, one time/recurring/event driven (code system version update, value set definition update)
- User specified destination, Public expansion repository or VSAC Collaboration
- User defined Expansion version label



- “My Expansion Schedule” page to manage expansion schedules

Search Value Sets    Authoring    **My Expansion Schedule**    Download

Create an Expansion Schedule

My Expansion Schedule

▣ Suspend    🗑️ Cancel Expansion    Page 1 of 1    View 1 - 3 of 3

<input type="checkbox"/>	Expansion Name	Version Label	Status	Last Update	Last Run
<input type="checkbox"/>	<a href="#">My RXNORM Expansion</a>	RXNORM-Monthly-Update	Active	2015-07-20	2015-07-21 1:00:00AM
<input type="checkbox"/>	<a href="#">My SNOMEDCT Expansion</a>	SNOMEDCT-Adhoc-Update	Suspended	2015-06-30	2015-07-01 1:00:00AM
<input type="checkbox"/>	<a href="#">MU2 Update 2015</a>	MU2 Update 2015-05-01	Manual	2015-04-30	2015-05-01 9:00:00AM

Page 1 of 1    View 1 - 3 of 3



Authoring **My Expansion Schedule** Download Help

Create an Expansion Schedule

Cancel Expansion Page 1 of 1 View 1 - 3 of 3

Expansion Name	Version Label	Status	Last Update	Last Run
RxNorm-Monthly-Update	RXNORM-Monthly-Update	Active	2015-07-20	2015-07-21 1:00:00AM
Medication-Adhoc-Update	MEDCT-Adhoc-Update	Suspended	2015-06-30	2015-07-01 1:00:00AM
Update 2015-05-01		Manual	2015-04-30	2015-05-01 9:00:00AM

Use Collab to track progress

Multiple Value Sets selected for this expansion schedule

Service can be suspended and resumed

My RxNorm Expansion Version Label: \* RXNORM-Monthly-Update

Expansion Destination:  Public Repository  VSAC Collab

Expansion Profile: Let's Start Schedule Type: One Time Only Start Date: 08/12/2015

Include Draft

Name	Type	Steward	Author	Code System	OID
<input checked="" type="checkbox"/> ACE Inhibitor or ARB	Extensional	RXNORM	AMA-PCP	AMA-PCPI Author	2.16.840.1.113883.3.526.2.39
<input checked="" type="checkbox"/> ADHD Medications	Extensional	RXNORM	NCQA PHEMUR	NCQA PHEMUR A	2.16.840.1.113883.3.464.1003.196.11.11
<input checked="" type="checkbox"/> Antibiotic Medications for Pharyng	Extensional	RXNORM	NCQA PHEMUR	NCQA PHEMUR A	2.16.840.1.113883.3.464.1003.196.11.10

Preview Save Cancel Suspend Delete



- Workflow Improvement
  - ❖ Current annual update workflow
    - Update each measure and corresponding value sets using MAT and VSAC
    - Export whole release package from MAT
    - QA of Value sets in VSAC
    - QA of Measure by Mitre team



- Workflow Improvement

- ❖ Potential annual update workflow improvement

- Using VSAC Collab to coordinate per measure authoring process
    - Engage more stakeholders through threaded forum and voting/approving processes
    - Using VSAC expansion schedule and Collab services to automate code maintenance in early stage



- UI Improvement - Value Set Management

Change Steward

ID: 2.16.840.1.113762.1.4.1018.105  
Name: Dextromethorphan example  
Steward: VSAC-TEST  
Type: Extensional  
Author: VSAC-AUTHOR  
Keyword:  
CMS100v4,  
NCQA\_Key, 2014\_EH

Definition History

Version	Author	Steward
20150501	2015-05-01	AMA-PCPI AMA-PCPI Author

Expansion Version	Version Label	Status
My RXNORM Expansion	RXNORM-Monthly-Update	Active
MU2 Update 2015-05-01	MU2 Update 2015-05-01	Suspended

Manage Expansions

Definition Version: Draft

Status: Draft Note:  
A few RxNorm SCDs with Dextromethorphan

Purpose: Show

Code System: RXNORM Code System Version: 2013-02 Search/Add Code

Value Set Code List

Code	Descriptor	TTY	Property	Status
200052	Dextromethorphan 0.667 MG/ML / Guaifenesin 6.67 MG/ML Oral SCD		Generic,Prescri	Active
250826	Dextromethorphan 1.5 MG/ML Oral Solution	SCD	Generic,Prescri	Active
790451	Dextromethorphan 20 MG / Guaifenesin 400 MG / Phenylephrine SCD		Generic,Prescri	Active



- UI Improvement - Context window

The screenshot displays the Value Set Authority Center interface with three main panels:

- Search Panel:** Includes a search bar with the query "Oral", filter options for Code System (SNOMEDCT) and Code System Version (All), and a table of search results.
- Detail View Panel:** Shows details for the selected code 116141005, including its description, code system, term type, and property.
- Tree View Panel:** Shows a hierarchical tree of related terms.

Red arrows point from a callout box to the search bar and the detail view panel.

Code	Descriptor	Code Sy:	TTY	Code Sy:
1000001	Amlodipine 5 MG / Hydroc...	SNOMEDC		2015-01
3000001	Amlodipine Hydrochlorothiazid...	SNOMEDC		2015-04
5000001	Hydrochlorothiazide 25 MG	SNOMEDC		2015-06
4000001	Olmesartan medoxomil 40	SNOMEDC		2015-06
6000001	40 MG Oral Tablet	SNOMEDC		2015-06

Code	Descriptor
116143008	Total abdominal hysterectomy (procedure)
13254001	Abdominal hysterectomy with colpo-urethrocytostomy, Marshall-H...
176795006	Subtotal abdominal hysterectomy (procedure)
288042004	Hysterectomy and fetus removal (procedure)
302190000	Abdominal hysterectomy and right salpingo-oophorectomy (pro...

Search and detail in the same window for better browsing experience



# Questions?

Send comments, questions, ideas to:

[custserv@nlm.nih.gov](mailto:custserv@nlm.nih.gov)

(place VSAC in the subject line)