Which of the following terminology products did you use this year?

☐ UMLS (Unified Medical Language System (1)

☐ RxNorm (2)

☐ VSAC (Value Set Authority Center) (4)

☐ MetaMap (3)

☐ MedlinePlus Connect (21)

☐ NIH Common Data Elements (CDE) Repository (5)

☐ SNOMED CT - US Edition (11)

☐ SNOMED CT - International Release (10)

☐ LOINC (Logical Observation Identifier Names & Codes Terminology) (7)

☐ CPT (Current Procedural Terminology) (6)

☐ None of these (18)

☐ I don't know (20)

☐ Other; please specify: (19) _____

What terminology or code system would you like to see added to the UMLS?

_____

_____

For what purpose(s) did you use UMLS?

☐   Process texts to extract concepts, relationships or knowledge (5)

☐   Facilitate mapping between terminologies (8)

☐   Develop an information retrieval system (3)

☐   Extract specific terminologies from the Metathesaurus (e.g., MedDRA, MeSH, SNOMED CT) (1)

☐   Create and maintain local terminology (2)

☐   Develop a terminology server or service (6)

☐   Research terminologies and ontologies beyond any of the above categories (7)

☐   Other; please specify: (16) _____

Do you provide an application, tool, or system that utilizes the UMLS?

◯ Yes (1)

◯ No (2)

How many users use your application, tool, or system that utilizes the UMLS?

○ 1-10 (1)

○ 11-100 (2)

○ 101-1,000 (3)

○ 1,001-10,000 (4)

○ More than 10,000 (5)

Please describe your application, tool, or system that utilizes the UMLS. How does it utilize the UMLS? Are UMLS data exposed to users? Who uses the application/tool/system?>

_____

_____

Please select and briefly describe any enhancements you would suggest to improve the UMLS.

☐   File Format (4) _____

☐   Mapping (5) _____

☐   Installation (6) _____

☐   Site Navigation (7) _____

☐   Customer Support (8) _____

☐   Use Case Examples (9) _____

☐   Training/Documentation (11) _____

☐   Other; please specify: (12) _____

How did you access RxNorm?

☐   Browsing in RxNav (2)

☐   Download RxNorm files (3)

☐   Through the RxNorm API (5)

☐   RxNav-in-a-Box (container for installation of the RxNorm API and RxNav) (7)

☐   Files extracted from the Metathesaurus (4)

☐   Browsing on the UMLS Terminology Services (1)

☐   Other; please specify: (6) _____

Why did you use RxNorm in the UMLS? What value does the UMLS add to your use of RxNorm?

_____

_____

For what purpose(s) did you use RxNorm?

☐   E-Prescribing (1)

☐   Information Exchange (2)

☐   Formulary Development (3)

☐   Reference Value Sets (4)

☐   Analytics (5)

☐   Access to information about obsolete RxCUIs and NDCs (for analytics) (7)

☐   Other; please specify: (6) _____

Do you provide an application, tool, or system that utilizes RxNorm?

○ Yes (1)

○ No (3)

How many users use your application, tool, or system that utilizes RxNorm?

○ 1-10 (1)

○ 11-100 (2)

○ 101-1,000 (3)

○ 1,001-10,000 (4)

○ More than 10,000 (5)

Please describe your application, tool, or system that utilizes RxNorm.<div>How does it utilize the RxNorm? Are RxNorm data exposed to users? Who uses the application/tool/system?</div>

_____

_____

Do you use MeSH out of the RxNorm release (not the UMLS)?

○ Yes (1)

○ No (4)

Do you use Semantic Types out of the RxNorm release (not the UMLS)?

○ Yes (1)

○ No (2)

What can NLM do to improve RxNorm?

_____

_____

How did you access CPT?

☐ Download files from the American Medical Association (3)

☐ CPT Developer's Tool Kit (CPT DTK) (4)

☐ Files extracted from the Metathesaurus (2)

☐ Browsing on the UMLS Terminology Services (1)

☐ Other; please specify: (5) _____

Why did you use CPT in the UMLS? What value does the UMLS add to your use of CPT?

_____

_____

How did you access LOINC?

☐ Download files from the Regenstrief Institute (loinc.org) (4)

☐ Browsing on search.loinc.org (2)

☐ RELMA (Regenstrief LOINC Mapping Assistant) (6)

☐ Browsing on the UMLS Terminology Services (1)

☐ Files extracted from the Metathesaurus (3)

☐ Other; please specify: (5) _____

Why did you use LOINC in the UMLS? What value does the UMLS add to your use of LOINC?

_____

_____

How did you access SNOMED CT?

☐ Download the US Edition of SNOMED CT (7)

☐ Download the International Release of SNOMED CT (2)

☐ Download the CORE Problem List Subset (3)

☐ Download the Spanish Edition of SNOMED CT (4)

☐ Browse on the UMLS Terminology Services (1)

☐ Files extracted from the Metathesaurus (5)

☐ Other; please specify: (6) _____

Why did you use SNOMED CT in the UMLS? What value does the UMLS add to your use of SNOMED CT?

_____

_____

Have you implemented SNOMED CT in an electronic health record system or a terminology service used by electronic health record systems?

○ Yes (1)

○ No (2)

Which format of SNOMED CT did you use in your implementation?

☐ RF1 (1)

☐ RF2 (2)

☐ OWL (6)

☐ CORE Problem List Subset of SNOMED CT (3)

☐ Don't know (4)

☐ Other; please specify: (5) _____

In what ways do health providers interact with SNOMED CT within the system?

☐ Pulling problems, findings, etc into the problem list from SNOMED CT content (1)

☐ Enter problems, findings, as text or from institutional supported list and converted to SNOMED CT via 3rd party software (4)

☐ I don't know (5)

☐ Other; please specify: (6) _____

Do you use SNOMED CT post-coordinated expressions in your system/application?

○ Yes (2)

○ No (3)

○ Don't know (4)

Please describe how you use SNOMED CT post-coordinated expressions in your system/application.

_____

_____

Please describe how you use SNOMED CT data in your application/system.

_____

_____

Which maps between SNOMED CT and ICD-9-CM or ICD-10-CM have you used?

☐ SNOMED CT to ICD-10 CM Map (1)

☐ SNOMED CT to ICD-9-CM map (2)

☐ ICD-9-CM diagnoses to SNOMED CT map (3)

☐ ICD-9-CM procedures to SNOMED CT map (4)

☐ I have not used any of the maps (5)

Please describe how you used the maps you selected in the previous question.

_____

_____

What can NLM do to improve MetaMap?

_____

_____

How do you use the VSAC and value sets?

☐　　　Author value sets (4)

☐　　　Report clinical quality measures (CQMs) to CMS (7)

☐　　　Access content through VSAC FHIR terminology service (8)

☐　　　Other; please specify: (9) _____

Would you be interested in creating a program release for easy searching and downloading of your value sets?

○ Yes (1)

○ No (2)

Are you interested in creating intensional (logically-defined) value sets in VSAC?

○ Yes (1)

○ No (2)

What changes or additional functionality do you need to create your intensional value sets in VSAC?

_____

_____

Provide specific examples of intensional value sets you want to be able to create in VSAC in the future, especially with RxNorm, LOINC, and other code system functionality that is not included in this testing. (For example, a value set of all of the dispensable drugs in RxNorm or a value set of all of the SNOMED CT codes that have a causative agent of hepatitis B virus.)

_____

_____

What can NLM do to improve the VSAC authoring environment?

_____

_____

What can NLM do to improve VSAC?

_____

_____

What was your purpose for using the NIH CDE Repository?

☐   Exploring or browsing (1)

☐   Reference, verification, or comparison to other data (2)

☐   Seeking specific information (definitions, codes, mapping, etc.) (3)

☐   Teaching or learning tool (4)

☐   Use encouraged, recommended, or required by project or organization (5)

☐   Other; please specify: (6) _____

How did you use the NIH CDE Repository?

☐ Search/browse CDEs (1)

☐ Search/browse forms (2)

☐ Export/download CDEs (3)

☐ Export/download forms (4)

☐ Create CDEs (5)

☐ Create forms (6)

☐ Other; please specify: (7) _____

Have you used or recommended a CDE or form in the NIH CDE Repository?

○ Yes (1)

○ No (4)

What can NLM do to improve the NIH CDE Repository?

_____

_____

Please provide references (URLs, citations, publications, etc.) or details about your work that involves terminology products from NLM.

_____

_____

For which terminology product(s) would you like to see new or additional educational materials?

- ☐ (12) UMLS (Unified Medical Language System - Metathesaurus, Semantic Network, and Lexical Tools)

- ☐ RxNorm (5)

- ☐ VSAC (Value Set Authority Center) (7)

- ☐ SNOMED CT (8)

- ☐ LOINC (15)

- ☐ NIH Common Data Element (CDE) Repository (9)

- ☐ MetaMap (13)

- ☐ None (10)

- ☐ Other; please specify: (11) _____

For which RxNorm topics would you like to see new or additional educational materials?

- ☐ Understanding term types (1)

- ☐ Navigating the RxNorm graph (2)

- ☐ Mapping your formulary to RxNorm (3)

- ☐ Mapping NDCs to RxNorm (4)

- ☐ Relating RxNorm to DailyMed (5)

- ☐ Extracting drug classes (6)

- ☐ Using the API (7)

- ☐ Using RxNav (9)

☐   Using RxMix (11)

☐   Using RxClass (12)

☐   Other; please specify: (10) _____

For which UMLS topics would you like to see new or additional educational materials. Are there specific topics, use cases, or questions you would like to see addressed?

_____

_____

For which SNOMED CT topics would you like to see new or additional educational materials?

☐   Post-Coordinated Expressions (1)

☐   Reference Sets (RefSets) (2)

☐   Mapping Subsets (3)

☐   Accessing SNOMED CT (4)

☐   Requesting Content Changes (5)

☐   Other; please specify: (6) _____

Would you be willing to describe your use of NLM terminology products and services on the NLM Web site? (If so, NLM may contact you)

◯ Yes (4)

◯ No (5)

Do you use terminologies, ontologies, or code systems outside of the UMLS license?

◯ Yes (1)

◯ No (4)

What tools, programs, and services do you use to access terminology products outside of the UMLS license?

☐ NCI EVS (1)

☐ OHDSI (2)

☐ NCBO BioPortal (3)

☐ NCBI Entrez System (dbGAP, MedGen, ClinVar, etc.) (4)

☐ Other; please specify: (5) _____

Which of the following do you use outside of the UMLS license?

- ☐ ICD10CM (1)

- ☐ UCUM (2)

- ☐ NDC (3)

- ☐ WHO Drug Codes (4)

- ☐ MedDRA (5)

- ☐ GMDN (6)

- ☐ NCIt, NCIm (NCI EVS) (7)

- ☐ MedGen (8)

- ☐ ClinVar (9)

- ☐ dbSNP (10)

- ☐ RefSeq (11)

- ☐ COSMIC (12)

- ☐ Other; please specify: (13) _____

Why did you request a UMLS license/create a UTS account?

_____

_____