# UMLS 2018 User Survey

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

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

☐ RxNorm

☐ MetaMap

☐ VSAC (Value Set Authority Center)

☐ NIH Common Data Element (CDE) Repository

☐ CPT (Current Procedural Terminology)

☐ LOINC (Logical Observation Identifier Names & Codes Terminology)

☐ Semantic Network (outside of the UMLS)

☐ SPECIALIST Lexicon and Lexical Tools (outside of the UMLS)

☐ SNOMED CT International Release

☐ US Edition of SNOMED CT

☐ Nursing Problem List Subset of SNOMED CT

☐ CORE Subset of SNOMED CT (Clinical Observations Recording and Encoding Subset of SNOMED CT)

☐ ROA Subset of SNOMED CT (Route of Administration Subset of SNOMED CT)

☐ CMT (Convergent Medical Terminology)

☐ SNOMED CT to ICD-10-CM Map

☐ ICD-9-CM to SNOMED CT Map

☐ None of these

☐ I don't know

☐ Other, please specify: _____

How often do you use resources from the UMLS?

- ○ Daily
- ○ Weekly
- ○ Monthly
- ○ Annually
- ○ Never

For which categories of terminologies would you like to see increased coverage in the UMLS?

- ☐ Drugs [Pharmaceutical Preparations]
- ☐ Disease/Diagnosis
- ☐ Procedures
- ☐ Insurance Claim Reporting
- ☐ Genetics
- ☐ Laboratory Techniques and Procedures
- ☐ Anatomy
- ☐ Consumer Health Information
- ☐ Disabled Persons
- ☐ Medical Devices
- ☐ Nursing
- ☐ Phylogeny
- ☐ Adverse Drug Reaction Reporting Systems
- ☐ Complementary Therapies
- ☐ Dentistry
- ☐ Other, please specify: _____

For what purpose(s) did you use UMLS?

- ☐ Extract specific terminologies from the Metathesaurus (e.g., MedDRA, MeSH, NDF-RT)

- ☐ Creation and maintenance of local terminology

- ☐ Information indexing/annotations and retrieval

- ☐ Concept-oriented synonymy

- ☐ Processing of texts to extract concepts, relationships or knowledge

- ☐ Support of a terminology server or service

- ☐ Terminology research

- ☐ Mapping between terminologies

- ☐ Other, please specify: _____

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

- ○ Yes

- ○ No

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?

_____
_____
_____
_____
_____

Do you use UMLS CUIs (Concept Unique Identifiers) in a clinical setting?

- ○ Yes

- ○ No

How useful are the UMLS Knowledge Sources?

| | Have not used | Not useful | Useful | Very useful | Extremely useful |
|---|---|---|---|---|---|
| Metathesaurus | ○ | ○ | ○ | ○ | ○ |
| Semantic Network | ○ | ○ | ○ | ○ | ○ |
| SPECIALIST Lexicon | ○ | ○ | ○ | ○ | ○ |
| Lexical Tools | ○ | ○ | ○ | ○ | ○ |

How useful are these elements in the Metathesaurus?

| | Have not used | Not useful | Useful | Very useful | Extremely useful |
|---|---|---|---|---|---|
| Concept names and synonyms | ○ | ○ | ○ | ○ | ○ |
| Hierarchical relationships | ○ | ○ | ○ | ○ | ○ |
| Non-hierarchical relationships | ○ | ○ | ○ | ○ | ○ |
| Definitions | ○ | ○ | ○ | ○ | ○ |
| MRMAP/MRSMAP files | ○ | ○ | ○ | ○ | ○ |
| Attributes (MRSAT) | ○ | ○ | ○ | ○ | ○ |
| Semantic Types assigned to Concepts (MRSTY) | ○ | ○ | ○ | ○ | ○ |
| Word Indexes | ○ | ○ | ○ | ○ | ○ |

Did you install the UMLS locally?

○ Yes

○ No


Did you install UMLS locally using a database to store data?

○ Yes

○ No

When you installed the UMLS locally, which database did you use?

☐ MS Access

☐ MS SQL Server

☐ MySQL

☐ Oracle

☐ PostgreSQL

☐ Semantic Web Triple Store

☐ NoSQL

☐ Other, please specify _____

What format of Metathesaurus data did you use?

○ RRF (Rich Release Format)

○ ORF (Original Release Format)

Which UMLS API product(s) did you use?

- ☐ UMLS REST API
- ☐ UMLS SOAP API
- ☐ Legacy UMLSKS API
- ☐ Did not use any UMLS API

Did you browse the UMLS data on UTS (UMLS Terminology Service) or MetamorphoSys?

- ☐ UTS
- ☐ MetamorphoSys
- ☐ Did not use UTS or MetamorphoSys
- ☐ Other, please specify: _____

What MetamorphoSys features did you use?

- ☐ Install default Metathesaurus subsets
- ☐ Install the Semantic Network
- ☐ Install the SPECIALIST Lexicon
- ☐ Customize a Metathesaurus subset
- ☐ RRF Browser
- ☐ MRCXT File Builder
- ☐ File Validation
- ☐ Database Load Script Generator
- ☐ MetamorphoSys Filters
- ☐ Metathesaurus Content Views

What can NLM do to improve MetamorphoSys?

_____
_____
_____
_____
_____

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

☐ File Format _____

☐ Mapping _____

☐ Installation _____

☐ Site Navigation _____

☐ Customer Support _____

☐ Use Case Examples _____

☐ User Forum _____

☐ Training/Documentation _____

☐ Other _____

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

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

☐ RxNorm

☐ VSAC (Value Set Authority Center)

☐ SNOMED CT

☐ NIH Common Data Element (CDE) Repository

☐ None

☐ Other, please specify: _____

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

☐ Understanding Term Types

☐ Using the REST API

☐ Using the SOAP API

☐ Working with databases

☐ Content and/or Vocabulary questions

☐ Other, please specify: _____