Shared Terminology Development

Since 1997, EVS has worked with many partners to build shared content and services, so that information can be effectively exchanged, interpreted and analyzed while minimizing overall effort and cost. Much of this content has been created and published using NCI Thesaurus and NCI Metathesaurus, as outlined in the following sections and described in more detail in the individual user profiles later, where other shared development efforts are also described.

- NCI Thesaurus (NCIt)
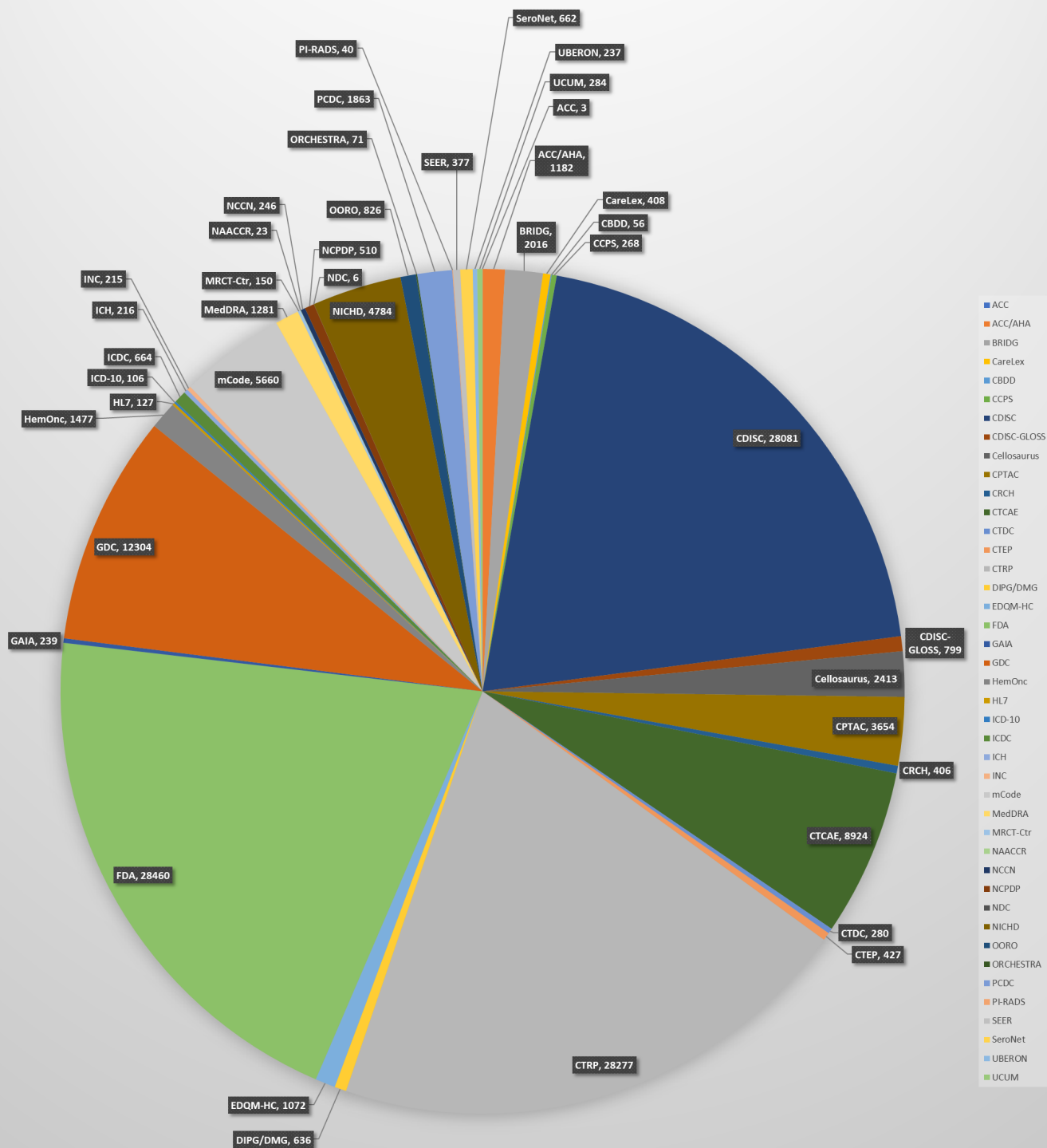- NCI Metathesaurus (NCIm)

NCI Thesaurus (NCIt)

NCI Thesaurus (NCIt) is NCI's core reference terminology. Over the last 16 years, it has also been adopted by FDA, CDISC, NCPDP and other partners as a shared standards development and coding environment, allowing participants to compare and harmonize with each other's content while taking advantage of full-text definitions, codes, and other features.

About 125,000 out of the 178,080 current NCIt concepts have terms from both EVS and from one or more of these other sources. The chart below gives a detailed breakdown of the main areas of overlapping tagged content. Note that some partners have used NCI terms rather than tagging their own, so these figures understate the true extent of cross-source sharing.

NCIt concepts with terms from tagged outside sources (24.03D: March 2024)

NCIt Concepts from various contributing sources (24.03d March 2024)

SeroNet, 662
PI-RADS, 40
UBERON, 237
PCDC, 1863
UCUM, 284
ORCHESTRA, 71
ACC, 3
ACC/AHA, 1182
SEER, 377
NCCN, 246
OORO, 826
CareLex, 408
NAACCR, 23
CBDD, 56
BRIDG, 2016
CCPS, 268
INC, 215
MRCT-Ctr, 150
NCPDP, 510
NDC, 6
ICH, 216
MedDRA, 1281
NICHD, 4784
ICDC, 664
ICD-10, 106
mCode, 5660
HL7, 127
HemOnc, 1477

CDISC, 28081

CDISC-GLOSS, 799

Cellosaurus, 2413

CPTAC, 3654

CRCH, 406

CTCAE, 8924

CTDC, 280

CTEP, 427

GDC, 12304

GAIA, 239

FDA, 28460

CTRP, 28277

EDQM-HC, 1072

DIPG/DMG, 636

Legend:
ACC
ACC/AHA
BRIDG
CareLex
CBDD
CCPS
CDISC
CDISC-GLOSS
Cellosaurus
CPTAC
CRCH
CTCAE
CTDC
CTEP
CTRP
DIPG/DMG
EDQM-HC
FDA
GAIA
GDC
HemOnc
HL7
ICD-10
ICDC
ICH
INC
mCode
MedDRA
MRCT-Ctr
NAACCR
NCCN
NCPDP
NDC
NICHD
OORO
ORCHESTRA
PCDC
PI-RADS
SEER
SeroNet
UBERON
UCUM

NCIt concepts with tagged synonyms from each outside source (24.03D: March 2024)

NCIt Concepts	Source
3	ACC
1182	ACC/AHA
2016	BRIDG
408	CareLex
56	CBDD
268	CCPS
28081	CDISC
799	CDISC-GLOSS
2413	Cellosaurus
3654	CPTAC
406	CRCH
8924	CTCAE
280	CTDC
427	CTEP
28277	CTRP
636	DIPG/DMG
1072	EDQM-HC
28460	FDA
239	GAIA
12304	GDC
1477	HemOnc
127	HL7
106	ICD-10
664	ICDC
216	ICH
215	INC
5660	mCode
1281	MedDRA
150	MRCT-Ctr
23	NAACCR
246	NCCN
510	NCPDP
6	NDC
4784	NICHD

826	OORO	
71	ORCHESTRA	
1863	PCDC	
40	PI-RADS	
377	SEER	
662	SeroNet	
237	UBERON	
284	UCUM	

NCI Metathesaurus (NCIm)

NCI Metathesaurus (NCIm) was started in the late 1990s to gather up, translate between, and publish the many terminologies used by NCI, including some created in part or whole within NCI. Development of NCI Thesaurus started within NCIm as NewPDQ, an effort to extend and restructure the PDQ Terminology long used to code cancer clinical trial, research and public information resources. NCIm continues to provide a vital environment for EVS collaboration with NCI and other partners to develop, map and publish terminologies of shared interest, and responds to the requirements of a broad range of stakeholders within the cancer research and biomedical community.

NCIt tagged content from outside sources is imported into NCIm with separate source tags. NCIt-derived sources are grouped separately below. The NCIm tags are mostly identical or very similar to those in NCIt; exceptions are CADSR, converted to NCI; HL7, converted to NCI-HL7; and CTRM, which is not imported.

NCIm sources and the number of concepts to which each contributes (202402: February 2024)

NCIm concepts	Source Label - NCIt-derived	Source Name
1177	ACC-AHA	American College of Cardiology/American Heart Association Clinical Data Terminology, 2023_12D
334	BioC	BioCarta online maps of molecular pathways, adapted for NCI use, 2023_12D
27	BRIDG	Biomedical Research Integrated Domain Group Model, 2023_12D
1148	BRIDG_3_0_3	Biomedical Research Integrated Domain Group Model, 3.0.3, 2023_12D
1658	BRIDG_5_3	Biomedical Research Integrated Domain Group Model, 5.3, 2023_12D
19304	caDSR	Cancer Data Standards Registry and Repository, 2023_12D
407	CARELEX	Content Archive Resource Exchange Lexicon, 2023_12D
53	CBDD	Chemical Biology and Drug Development Vocabulary, 2023_12D
265	CCPS	Childhood Cancer Predisposition Study, 2023_12D
922	CDC	U.S. Centers for Disease Control and Prevention, 2023_12D
29019	CDISC	Clinical Data Interchange Standards Consortium, 2023_12D
800	CDISC-GLOSS	Clinical Data Interchange Standards Consortium Glossary Terms, 2023_12D
2425	CELLOSAURUS	Cellosaurus, 2023_12D
3680	CPTAC	Clinical Proteomic Tumor Analysis Consortium, 2023_12D
406	CRCH	Cancer Research Center of Hawaii Nutrition Terminology, 2023_12D
775	CTCAE	Common Terminology Criteria for Adverse Events, 2023_12D
5599	CTCAE_3	Common Terminology Criteria for Adverse Events 3.0, 2023_12D
4022	CTCAE_5	Common Terminology Criteria for Adverse Events 5.0, 2023_12D
276	CTDC	Clinical Trial Data Commons, 2023_12D
372	CTEP-SDC	Cancer Therapy Evaluation Program - Simple Disease Classification, 2023_12D
28023	CTRP	Clinical Trials Reporting Program, 2023_12D
904	DCP	NCI Division of Cancer Prevention Program, 2023_12D

114	DICOM	Digital Imaging Communications in Medicine, 2023_12D
627	DIPG_DMG	Diffuse Intrinsic Pontine Glioma/Diffuse Midline Glioma Terminology, 2023_12D
694	DTP	NCI Developmental Therapeutics Program, 2023_12D
1070	EDQM-HC	European Directorate for the Quality of Medicines & Healthcare, 2023_12D
27355	FDA	U.S. Food and Drug Administration, 2023_12D
207	GAIA	Global Alignment of Immunization Safety Assessment in pregnancy, 2023_12D
6030	GDC	NCI Genomic Data Commons, 2023_12D
281	GENC	Geopolitical Entities, Names, and Codes Standard, 2023_12D
1439	HemOnc	Hematology-Oncology (HemOnc) Chemotherapy Regimen Vocabulary, 2023_12D
106	ICD-10	International Classification of Diseases, 10th Edition, 2023_12D
693	ICDC	NCI Integrated Canine Data Commons, 2023_12D
215	ICH	International Conference on Harmonization, 2023_12D
215	INC	International Neonatal Consortium, 2023_12D
156	JAX	Jackson Laboratories Mouse Terminology, adapted for NCI use, 2023_12D
244	KEGG	KEGG Pathway Database, 2023_12D
5660	mCode	Minimal Common Oncology Data Elements, 2023_12D
183778	NCI	National Cancer Institute Thesaurus, 2023_12D
5079	NCI-GLOSS	NCI Dictionary of Cancer Terms, 2023_12D
5860	NCI-HGNC	NCI HUGO Gene Nomenclature Committee, 2023_12D
129	NCI-HL7	NCI Health Level 7, 2023_12D
509	NCPDP	National Council for Prescription Drug Programs, 2023_12D
5	NDC	National Drug Code, 2023_12D
4780	NICHD	National Institute of Child Health and Human Development, 2023_12D
825	OORO	Operational Ontology for Radiation Oncology, 2023_12D
70	ORCHESTRA	ORCHESTRA, 2023_12D
1832	PCDC	Pediatric Cancer Data Commons, 2023_12D
39	PI-RADS	Prostate Imaging Reporting and Data System, 2023_12D
169	PID	National Cancer Institute Nature Pathway Interaction Database, 2023_12D
310	RENI	Registry Nomenclature Information System, 2023_12D
659	SeroNet	Serological Sciences Network Terminology, 2023_12D
236	UBERON	UBERON Ontology, 2023_12D
1546	UCUM	Unified Code for Units of Measure, 2023_12D
77	WHO	World Health Organization (WHO) Terminology, 2023_12D
25	ZFIN	Zebrafish Model Organism Database, 2023_12D

NCIm concepts	Source Label - Other	Source Name
15884	AOD	Alcohol and Other Drug Thesaurus, 2000
276	AOT	Authorized Osteopathic Thesaurus, 2003
13257	CBO	Clinical Bioinformatics Ontology, 2011_02
544	CCSR_ICD10CM	Clinical Classifications Software Refined for ICD-10-CM, 2023

357	CCSR_ICD10PCS	Clinical Classifications Software Refined for ICD-10-PCS, 2023
962	CDCREC	Race & Ethnicity - CDC, 1.2
3080	COSTAR	COSTAR, 1989-1995
16485	CSP	CRISP Thesaurus, 2006
3839	CST	COSTART, 1995
318	CTEP	Cancer Therapy Evaluation Program, 2004
618	CVX	Vaccines Administered, 2017_02_08, 2023_08_16
11414	DRUGBANK	DrugBank, 5.0_2023_08_11
7290	DXP	DXplain, 1994
102551	FMA	Foundational Model of Anatomy Ontology, 4_15
7482	GARD	Genetic and Rare Diseases Information Center, 2015_04
71881	GO	Gene Ontology, 2023_05_10
8081	HCPCS	Healthcare Common Procedure Coding System, 2023
43627	HGNC	HUGO Gene Nomenclature Committee, 2023_04
9078	HL7V3.0	HL7 Vocabulary Version 3.0, 2023_02
19235	HPO	Human Phenotype Ontology, 2023_07_21
17416	ICD10	ICD10, 2016
105376	ICD10CM	International Classification of Diseases, 10th Edition, Clinical Modification, 2024
191545	ICD10PCS	ICD-10-PCS, 2024
20886	ICD9CM	International Classification of Diseases, Ninth Revision, Clinical Modification, 2014
2864	ICDO	International Classification of Disease for Oncology, 3_2
748	ICPC	International Classification of Primary Care, 1993
5055	ISO3166-2	International Organization for Standardization 3166-2, 2012
175623	LNC	LOINC, 276
41	MCM	McMaster University Epidemiology Terms, 1992
332	MDBCAC	Mitelman Database of Chromosome Aberrations in Cancer, 2005_12
62093	MDR	Medical Dictionary for Regulatory Activities Terminology (MedDRA), 26_1
3523	MED-RT	Medication Reference Terminology, 2023_09_05
2123	MEDLINEPLUS	MedlinePlus Health Topics, 20221101
900	MGED	MGED Ontology, 131
456461	MSH	Medical Subject Headings, 2024_2023_08_03
218961	MTH	UMLS Metathesaurus, 2023AB
11	MTHCMSFRF	Metathesaurus CMS Formulary Reference File, MTHCMSFRF_2020
19007	MTHICD9	International Classification of Diseases, Ninth Revision, Clinical Modification, Metathesaurus additional entry terms, 2014
1633	MTHMST	Metathesaurus Version of Minimal Standard Terminology Digestive Endoscopy, 2001
57391	MTHSPL	Metathesaurus FDA Structured Product Labels, 2023_08_24
88	MVX	Manufacturers of Vaccines, 2023_09_06
719490	NCBI	NCBI Taxonomy, 2023_04_13
9532	NCIMTH	NCIMTH
1887	NPO	NPO: NanoParticle Ontology for Cancer Nanotechnology Research, 2011_12_08

103963	OMIM	Online Mendelian Inheritance in Man, 2023_08_10
12399	PDQ	Physician Data Query, 2016_07_31
2039	PMA	Portfolio Management Application, 2010
270	PNDS	Perioperative Nursing Data Set, 2021
940	QMR	Quick Medical Reference (QMR), 1996
45826	RADLEX	RadLex, 4_1
217864	RXNORM	RxNorm Vocabulary, 20AA_230905F
361058	SNOMEDCT_US	US Edition of SNOMED CT, 2023_09_01
167	SOP	Source of Payment Typology, 9.2
4811	SPN	Standard Product Nomenclature, 2003
230	SRC	Metathesaurus Source Terminology Names
29104	UMD	UMDNS: product category thesaurus, 2023
5002	USP	USP Compendial Nomenclature, 2023_08_17
1605	USPMG	USP Medicare Model Guidelines, 2020
61107	UWDA	University of Washington Digital Anatomist, 1.7.3
38334	VANDF	Veterans Health Administration National Drug File, 2023_07_31

Overall Counts (February 2024)

Concepts	Relationships	Attributes	Total Number of Terms
2,684,035	23,500,918	24,395,137	7,098,885