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Reference: COVID-19 Open Research Dataset (CORD-19). 2020
Version 2020-04-17
Retrieved from https://pages.semanticscholar.org/coronavirus-research
Accessed 2020-04-18.
doi:10.5281/zenodo.3727291

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Table 1. Additional UMLS Vocabulary Sources

AIR93	AI/RHEUM. Bethesda, MD : National Library of Medicine, Lister Hill Center, 1993
AOD2000	Alcohol and Other Drug Thesaurus. 3rd. ed. [4 Volumes.] Bethesda, MD: National Institute on Alcohol Abuse and Alcoholism (NIAAA) and Center for Substance Abuse Prevention (CSAP), 2000
AOT2003	Authorized Osteopathic Thesaurus. Educational Council of Osteopathic Principles of the American Association of Colleges of Osteopathic Medicine: Chevy Chase MD, 2004

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ATC_2019 (updated)	WHO Collaborating Centre for Drug Statistics Methodology, Anatomical Therapeutic Chemical (ATC) classification system, 2019 Oslo, Norway
CCS2005	Clinical Classifications Software (CCS). Release Date: April 2005. Agency for Healthcare Research and Quality (AHRQ), Rockville, MD
CCS_10_2019 (updated)	Healthcare Cost and Utilization Project (HCUP), HCUP Clinical Classifications Software (CCS), Agency for Healthcare Research and Quality (AHRQ), October 2018, Rockville, MD
CHV2011_02	Consumer Health Vocabulary, 2011.
COSTAR_89-95	Computer-Stored Ambulatory Records (COSTAR). Boston MA: Massachusetts General Hospital, 1989-1995.
CSP2006	Computer Retrieval of Information on Scientific Projects (CRISP). Bethesda MD: National Institutes of Health, Division of Research Grants, Research Documentation Section, 2006.
CST95	Coding Symbols for Thesaurus of Adverse Reaction Terms (COSTART). 5th ed. Rockville MD: U.S. Food and Drug Administration, Center for Drug Evaluation and Research, 1995.
CVX_2018_10_18_19_03_04 (updated)	National Center for Immunization and Respiratory Diseases, CVX Code Set, Atlanta, GA, October 18, 2018
DRUGBANK5.0_2019_01_31 (updated)	DrugBank 5.0, OMx Personal Health Analytics Inc., January 31, 2019. Edmonton, Alberta, Canada
DXP94	DXplain (An expert diagnosis program). Boston MA: Massachusetts General Hospital, 1994.
FMA4_10	Jose Leonardo V. Mejino Jr., M.D., Cornelius Rosse, M.D., DSc, Foundation Model of Anatomy, v4.6.0 Department of Biological Structure, University of Washington, January 2018
GO2018_05_20	The Gene Ontology, The Gene Ontology Consortium, May 20, 2018
HCPCS2019_19_03_21 (updated)	Healthcare Common Procedure Coding System (HCPCS), 2019 Baltimore, MD Centers for Medicare & Medicaid Services 2019

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HGNC2018_03	HGNC Database, The HUGO Gene Nomenclature Database, European Bioinformatics Institute Wellcome Trust Genome Campus, March 23, 2018 United Kingdom
HL7V2.5_2003_08_30	Health Level Seven Vocabulary (HL7). Ann Arbor MI: Health Level Seven, 1998-2002
HL7V3.0_2018_08 (updated)	Health Level Seven (HL7) Vocabulary, Ann Arbor, MI, August 2018
HPO2018_11_08 (updated)	The Human Phenotype Ontology (HPO), The Human Phenotype Ontology Consortium, November 8, 2018
ICD10PCS_2019	Centers for Medicare and Medicaid Services, International Classification of Diseases, 10th Revision, Procedure Coding System, Baltimore, MD, 2019
ICD9CM_2014	National Center for Health Statistics (NCHS), ICD-9-CM: International Classification of Diseases, Ninth Revision, Clinical Modification, FY 2014 Medicare Addendum United States, October 1, 2013, Baltimore, MD
ICD9CM_2005	ICD-9-CM [computer file]: international classification of diseases, ninth revision, clinical modification. Version 22. Baltimore, MD: U.S. Department of Health and Human Services, Centers for Medicare & Medicaid Services, effective October 1, 2004
ICPC93	The International Classification of Primary Care (ICPC). Denmark: World Organisation of Family Doctors, 1993.
ICPCBAQ_1993	The International Classification of Primary Care (ICPC). Basque Translation. Denmark: World Organisation of Family Doctors, 1993.
ICPCDAN_1993	The International Classification of Primary Care (ICPC). Danish Translation. Denmark: World Organisation of Family Doctors, 1993.
ICPCDUT_1993	The International Classification of Primary Care (ICPC). Dutch Translation. Denmark: World Organisation of Family Doctors, 1993.
ICPCFIN_1993	The International Classification of Primary Care (ICPC). Finnish Translation. Denmark: World Organisation of Family Doctors, 1993.

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ICPCFRE_1993	The International Classification of Primary Care (ICPC). French Translation. Denmark: World Organisation of Family Doctors, 1993.
ICPCGER_1993	The International Classification of Primary Care (ICPC). German Translation. Denmark: World Organisation of Family Doctors, 1993.
ICPCHEB_1993	The International Classification of Primary Care (ICPC). Hebrew Translation, Denmark: World Organisation of Family Doctors, 1993.
ICPCHUN_1993	The International Classification of Primary Care (ICPC). Hungarian Translation. Denmark: World Organisation of Family Doctors, 1993.
ICPCITA_1993	The International Classification of Primary Care (ICPC). Italian Translation. Denmark: World Organisation of Family Doctors, 1993.
ICPCNOR_1993	The International Classification of Primary Care (ICPC). Norwegian Translation. Denmark: World Organisation of Family Doctors, 1993.
ICPCPOR_1993	The International Classification of Primary Care (ICPC). Portuguese Translation. Denmark: World Organisation of Family Doctors, 1993.
ICPCSPA_1993	The International Classification of Primary Care (ICPC). Spanish Translation. Denmark: World Organisation of Family Doctors, 1993.
ICPCSWE_1993	The International Classification of Primary Care (ICPC). Swedish Translation. Denmark: World Organisation of Family Doctors, 1993.
LCH90	Library of Congress Subject Headings. 12th ed. Washington (DC): Library of Congress, 1989.
LCH_NW_2013	Northwestern University Library, Library of Congress Subject Headings, Northwestern University subset, Evanston, IL, 2013.
LNC265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), Version 2.63 Indianapolis IN, December, 2018, Indianapolis, IN
LNC215	Logical Observation Identifier Names and Codes (LOINC). Version 2.15. Indianapolis IN: The Regenstrief Institute, June 6, 2005
LNC-DE-AT_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), German,

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	Austria Edition, Version 2.63 Austria ELGA December 15, 2018, German
LNC-DE-CH_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), German, Switzerland Edition, Version 2.63 Switzerland CUMUL December 15, 2018, German
LNC-DE-DE_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), German, Germany Edition, Version 2.63 Germany Institute for Medical Documentation and Information (DIMDI) December 15, 2018, German
LNC-EL-GR_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), Greek, Greece Edition, Version 2.63 Greece Efstratia Kontaxi, December 15, 2018, Greek
LNC-ES-AR_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), Spanish, Argentina Edition, Version 2.63 Argentina Conceptum Medical Terminology Center December 15, 2018, Spanish
LNC-ES-CH_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), Spanish, Switzerland Edition, Version 2.63 Switzerland CUMUL December 15, 2018, Spanish
LNC-ES-ES_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), Spanish, Spain Edition, Version 2.63 Spain The Clinical Laboratory Committee of SERVICIO EXTREMENO DE SALUD, with the support of BITAC MAP. December 15, 2018, Spanish
LNC-ET-EE_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), Estonian, Estonia Edition, Version 2.63 Estonia Estonian E-Health Foundation December 15, 2018, Estonian
LNC-FR-BE_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), French, Belgium Edition, Version 2.63 Belgium Jean M. Prevost, MD, Biopathology December 15, 2018, French

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LNC-FR-CA_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), French, Canada Edition, Version 2.63 Canada Canada Health Infoway Inc. December 15, 2018, French
LNC-FR-CH_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), French, Switzerland Edition, Version 2.63 Switzerland CUMUL December 15, 2018, French
LNC-FR-FR_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), French, France Edition, Version 2.63 France ASIP Sante (Agence des systemes d'information partages de de sante) December 15, 2018, French
LNC-IT-CH_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), Italian, Switzerland Edition, Version 2.63 Switzerland CUMUL December 15, 2018, Italian
LNC-IT-IT_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), Italian, Italy Edition, Version 2.63 Italy Consiglio Nazionale delle Ricerche December 15, 2018, Italian
LNC-KO-KR_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), Korean, Korea Edition, Version 2.63 Republic of Korea Korean Ministry for Health, Welfare, and Family Affairs December 15, 2018, Korean
LNC-NL-NL_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), Dutch, Netherlands Edition, Version 2.63 Netherlands NVKC, Dutch Society for Clinical Chemistry and Laboratory Medicine, The Netherlands December 15, 2018, Dutch
LNC-PT-BR_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), Portuguese, Brazil Edition, Version 2.63 Brazil HL7 Brazil Institute December 15, 2018, Portuguese
LNC-RU-RU_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), Russian, Russia Edition, Version 2.63 Russia Yaroslavl

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	State Medical Academy December 15, 2018, Russian
LNC-TR-TR_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), Turkish, Turkey Edition, Version 2.63 Turkey LOINC Turkish Translation Group and the Turkish Ministry of Health December 15, 2018, Turkish
LNC-ZH-CN_265 (updated)	The Regenstrief Institute, Logical Observation Identifier Names and Codes (LOINC), Chinese, China Edition, Version 2.63 China Bethune International Peace Hospital December 15, 2018, Chinese
MCM92	Glossary of Methodologic Terms for Clinical Epidemiologic Studies of Human Disorders. Canada: McMaster University, 1992
MEDLINEPLUS_20181108 (updated)	MedlinePlus Health Topics, National Library of Medicine, November 8, 2018 Bethesda, MD
MED-RT_2019_03_04 (updated)	Medication Reference Terminology, 2019_03_04, Washington, DC, U.S. Department of Veterans Affairs, Veterans Health Administration, March 4, 2019
MSH2019_2019_01_07 (updated)	Medical Subject Headings (MeSH), 2019, U.S. National Library of Medicine 2019, Bethesda, MD
MSH2015_2014_09_08	Medical Subject Headings (MeSH), 2015, U.S. National Library of Medicine 2015, Bethesda, MD
MTH	UMLS Metathesaurus. Bethesda, MD: National Library of Medicine
MTHCMSFRF_2014_19_03_04 (updated)	Metathesaurus Forms of CMS Formulary Reference File, 2014 Bethesda, MD National Library Of Medicine
MTHHH2019_19_03_21 (updated)	Metathesaurus Hierarchical HCPCS Terms, Bethesda, MD National Library of Medicine 2019
MTHICD9_2014	Metathesaurus additional entry terms for ICD-9-CM [computer file]: International Classification of Diseases, Ninth Revision, Clinical Modification, National Library of Medicine, October 1, 2013, Bethesda, MD

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MTHMST2001	Metathesaurus Version of Minimal Standard Terminology Digestive Endoscopy. Bethesda, MD: National Library of Medicine, 2001
MTHMSTFRE_2001	Metathesaurus Version of Minimal Standard Terminology Digestive Endoscopy, French Translation. Bethesda, MD: National Library of Medicine, 2001
MTHMSTITA_2001	Metathesaurus Version of Minimal Standard Terminology Digestive Endoscopy, Italian Translation. Bethesda, MD: National Library of Medicine, 2001
MMTHSPL_2019_02_22 (updated)	Metathesaurus Forms of the FDA Structured Product Labels, 2019_02_22 Bethesda, MD National Library of Medicine
MVX2018_08_31 (updated)	National Center for Immunization and Respiratory Diseases, Manufacturers of Vaccines, Atlanta, GA, August 31, 2018
NCBI2018_04_19	U.S. Department of Health and Human Services, NCBI Taxonomy, National Institutes of Health, National Library of Medicine, National Center for Biotechnology Information, April 19, 2018 Bethesda, MD
NCI2018_12E (updated)	National Cancer Institute, National Institutes of Health, NCI Thesaurus, 18.12e, National Cancer Institute, January 9, 2018 Bethesda, MD
NCI2018_BioC_1812E (updated)	BioCarta online maps of molecular pathways, adapted for NCI use, 18.12e, January 9, 2019
NCI2018_BRIDG_1812E (updated)	Biomedical Research Integrated Domain Group Model, 18.12e, January 9, 2019
NCI2018_CareLex_1812E (updated)	Content Archive Resource Exchange Lexicon, 18.12e, January 9, 2019
NCI2018_CDC_1812E (updated)	U.S. Centers for Disease Control and Prevention, Department of Health and Human Services, 18.12e, January 9, 2019, 2017 Atlanta, GA
NCI2018_CDISC_1812E (updated)	Clinical Data Interchange Standards Consortium, 18.12e, January 9, 2019
NCI2018_CDISC-GLOSS_1812E (updated)	CDISC Glossary Terminology, 18.12e, January 9, 2019
NCI2018_CPTAC_1812E (new)	Clinical Proteomic Tumor Analysis Consortium Terms, 18.12e, January 9, 2019

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NCI2018_CRCH_1812E (updated)	Cancer Research Center of Hawaii, University of Hawaii, Cancer Research Center of Hawaii Nutrition Terminology, 18.12e Hawaii, January 9, 2019
NCI2018_CTCAE_1812E (updated)	Common Terminology Criteria for Adverse Events, 18.12e, January 9, 2019
NCI2018_CTCAE_3_1812E (updated)	Common Terminology Criteria for Adverse Events 3.0, 18.12e, January 9, 2019
NCI2018_CTCAE_5_1812E (updated)	Common Terminology Criteria for Adverse Events 5.0, 18.12e, January 9, 2019
NCI2018_CTEP-SDC_1812E (updated)	Cancer Therapy Evaluation Program - Simple Disease Classification, 18.12e, January 9, 2019
NCI2018_CTRP_1812E (updated)	Clinical Trials Reporting Program, 18.12e, January 9, 2019
NCI2018_DCP_1812E (updated)	NCI Division of Cancer Prevention Program, 18.12e, January 9, 2019
NCI2018_DICOM_1812E (updated)	Digital Imaging Communications in Medicine, 18.12e, January 9, 2019
NCI2018_DTP_1812E (updated)	National Cancer Institute, NCI Developmental Therapeutics Program, 18.12e, January 9, 2019
NCI2018_EDQM-HC_1812E (new)	European Directorate for the Quality of Medicines and Healthcare, 18.12e, January 9, 2019
NCI2018_FDA_1812E (updated)	U.S. Food and Drug Administration, 18.12e, January 9, 2019
NCI2018_GAIA_1812E (new)	Brighton Collaboration Foundation (BCF), Global Alignment of Immunization Safety Assessment in pregnancy, 18.12e, January 9, 2019
NCI2018_GENC_1812E (updated)	Geopolitical Entities, Names, and Codes (GENC) Standard Edition 1, 18.12e, January 9, 2019
NCI2018_ICH_1812E (updated)	International Conference on Harmonization, 18.12e, January 9, 2019
NCI2018_INC_1812E (new)	International Neonatal Consortium Terms, 18.12e, January 9, 2019
NCI2018_JAX_1812E (updated)	Jackson Laboratories, Jackson Laboratories Mouse Terminology, adapted for NCI use, 18.12e, January 9, 2019

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NCI2018_KEGG_1812E (updated)	Kyoto Encyclopedia of Genes and Genomes (KEGG), KEGG Pathway Database, adapted for NCI use, 18.12e, January 9, 2019
NCI2018_NCI-GLOSS_1812E (updated)	National Cancer Institute, NCI Dictionary of Cancer Terms, 18.12e, January 9, 2019 Bethesda, MD
NCI2018_NCI-HGNC_1812E (updated)	NCI HUGO Gene Nomenclature, 18.12e, January 9, 2019
NCI2018_NCI-HL7_1812E (updated)	Health Level 7, NCI Health Level 7, 18.12e, January 9, 2019
NCI2018_NCPDP_1812E (updated)	National Council for Prescription Drug Programs, 18.12e Scottsdale, AZ, January 9, 2019
NCI2018_NICHD_1812E (updated)	National Institute of Child Health and Human Development, National Institutes of Health, 18.12e, January 9, 2019
NCI2018_PID_1812E (updated)	Carl F. Schaefer, Kira Anthony, Shiva Krupa, Jeffrey Buchoff, Matthew Day, Timo Hannay & Kenneth H. Buetow., PID: The Pathway Interaction Database, 18.12e, January 9, 2019
NCI2018_PI-RADS_1812E (new)	Prostate Imaging Reporting and Data System, 18.12e, January 9, 2019
NCI2018_RENI_1812E (updated)	Registry Nomenclature Information System, 18.12e, January 9, 2019
NCI2018_UCUM_1812E (updated)	Schadow, Gunther and McDonald, Clement, Regenstrief Institute, Inc. and The UCUM Organization, Unified Code for Units of Measure, 18.12e, January 9, 2019 Indianapolis, IN
NCI2018_ZFin_1812E (updated)	Zebrafish Information Network (ZFIN), Zebrafish Model Organism Database, 18.12e University of Oregon, January 9, 2019 Eugene, OR
NCISEER_1999	NCI Surveillance, Epidemiology, and End Results (SEER) conversions between ICD-9-CM and ICD-10 neoplasm codes. National Cancer Institute, Bethesda, MD. Release Date: June 1999
NDFRT_2018_02_05_18_12_03 (updated)	National Drug File - Reference Terminology, 2018_02_05 Washington, DC U.S. Department Of Veterans Affairs, Veterans Health Administration

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NDFRT_FDASPL_2018_02_05_18_12_03 (updated)	National Drug File - Reference Terminology - FDASPL, 2018_02_05 Washington, DC U.S. Department Of Veterans Affairs, Veterans Health Administration
NDFRT_FMTSME_2018_02_05_18_12_03 (updated)	National Drug File - Reference Terminology - FMTSME, 2018_02_05 Washington, DC U.S. Department Of Veterans Affairs, Veterans Health Administration
OMIM2019_02_04 (updated)	McKusick-Nathans Institute of Genetic Medicine, Johns Hopkins University (Baltimore, MD), Online Mendelian Inheritance in Man (OMIM), Baltimore, MD McKusick-Nathans Institute of Genetic Medicine, Johns Hopkins University, February 4, 2019
PDQ_2018_10_27	PDQ. Bethesda MD: National Cancer Institute, October 27, 2018
QMR96	Quick Medical Reference (QMR). San Bruno (CA): First DataBank, 1997
RAM99	QMR clinically related terms from Randolf A. Miller, 1999
RXNORM_18AB_190304F (updated)	RxNorm, META2016AB Full Update 2019_03_04 Bethesda, MD National Library of Medicine
SCTSPA_2017_10_31 (updated)	International Health Terminology Standards Development Organisation (IHTSDO), SNOMED Terminos Clinicos (SNOMED CT), Edicion en Espanol, Spanish Language Edition London, United Kingdom, October 31, 2017
SNM2	Cote, Roger A., Systematized Nomenclature of Medicine. 2nd ed. Skokie (IL): College of American Pathologists, 1982
SNMI98	Cote, Roger A., Systematized Nomenclature of Human and Veterinary Medicine: SNOMED International, Version 3.5, Schaumberg (IL), College of American Pathologists, American Veterinary Medical Association, 1998
SNOMEDCT_US_2019_03_01 (updated)	SNOMED International, SNOMED Clinical Terms US Edition, March 1, 2019 London, United Kingdom SNOMED International
SOP8	Public Health Data Standards Consortium (PHDSC), Standards Data Committee, Payer Subcommittee, Source of Payment Typology,

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	Version 7, PHDSC, December, 2017 Baltimore, MD
SPN2003	Standard Product Nomenclature (SPN). Rockville, (MD): U.S. Food and Drug Administration, 2003
SRC	UMLS Metathesaurus Source Terminologies. Bethesda, MD: National Library of Medicine
TKMT2011	Traditional Korean Medical Terms, 2011 Korea, KOR
USP_2018_12_10_19_03_04 (updated)	USP Compendial Nomenclature, December, 2018, United States Pharmacopeia
USPMG_2017	USP Medicare Model Guidelines, Version 6, United States Pharmacopeia February 6, 2017
UWDA173	Jose Mejino, M.D., University of Washington Digital Anatomist, (UWDA). Seattle (WA): University of Washington, Version 1.7.3, March, 2003.
VANDF_2019_02_01 (updated)	Veterans Health Administration National Drug File, February 01, 2019 Washington, DC U.S. Department of Veterans Affairs