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Contact: Nancy Winstanley;;NIAAA Library c/o CSR Incorporated;2107 Wilson Blvd., Suite 1000;;Arlington;VA;;22201;703-741-7147;; e-mail: [nwinstanley@csrincorporated.com](mailto:nwinstanley@csrincorporated.com);;

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**AOT2003** - ;;;Authorized Osteopathic Thesaurus;;;;Chevy Chase, MD;Educational Council of Osteopathic Principles of the American Association of Colleges of Osteopathic Medicine;2004;;;;<http://www.aacom.org/InfoFor/educators/Pages/thesaurus.aspx>;ENG;;

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Contact: Anne Elixhauser, Ph.D.;Senior Research Scientist;Agency for Healthcare Research and Quality;540 Gaither Road;;Rockville;MD;United States;20850;(301) 427-1411, 1-800-358-9295;(301) 594-1430;[AElixhau@ahrq.gov](mailto:AElixhau@ahrq.gov);

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**DDB00** - Malcolm Duncan;;Diseases Database 2000;;London (England);Medical Object Oriented Software Enterprises Ltd.;2000;May, 2000;;;<http://www.diseasesdatabase.com/>;;

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Contact: Malcolm H. Duncan;;Medical Object Oriented Software Enterprises Ltd;Unit 36c Marryat Square;Fulham;London;;UK;SW6 6UA;44 (0)20 7381 4220 Mobile: 07710 483088;;[mhduncan@compuserve.com](mailto:mhduncan@compuserve.com);<http://www.diseasesdatabase.com/>

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**DMDICD10\_1995** - ;;;Internationale Klassifikation der Krankheiten 10 [German translation of ICD10];;;Germany;Deutsches Institut fuer Medizinische Dokumentation und Information;1998;;;

### CATEGORY 1 RESTRICTIONS APPLY

Contact: Dr. Michael Schopen;; Deutsches Institut fur Medizinische Dokumentation und Information (DIMDI);Postfach 420580, D-50899 ;Koln;;Germany;;49-221-472-4252;49-221-41-1429;[schopen@dimdi.de](mailto:schopen@dimdi.de);

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**DMDUMD\_1996** - ;;;Die Nomenklatur fuer Medizinprodukte UMDNS [German translation of UMDNS];;;Germany;Deutsches Institut fuer Medizinische Dokumentation und Information;1996;;;

### CATEGORY 1 RESTRICTIONS APPLY

Contact: Dr. Michael Schopen;;Deutsches Institut für Medizinische Dokumentation und Information (DIMDI);Postfach 420580, D-50899;;Köln;;Germany;;49-221-472-4252;49-221-41-1429;;[helpdesk@dimdi.de](mailto:helpdesk@dimdi.de);;[www.dimdi.de](http://www.dimdi.de)

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**DRUGBANK5.0\_2021\_01\_29** (updated) - ;;;DrugBank;;5.0;;OMx Personal Health Analytics Inc.;;January 29, 2021;Edmonton, Alberta, Canada;;;;Wishart DS, Knox C, Guo AC, Shrivastava S, Hassanali M, Stothard P, Chang Z, Woolsey J. DrugBank: a comprehensive resource for in silico drug discovery and exploration. Nucleic Acids Res. 2006 Jan 1 34(Database issue):D668-72.;

Contact: ;;OMx Personal Health Analytics Inc.;;301 - 10359 104 St.;;Edmonton;Alberta;Canada;T5J 1B9;312-440-7742;;[support@omx.io](mailto:support@omx.io);;<http://www.drugbank.ca>;

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**DSM-5\_2015** - ;;;Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5);;5;;Arlington, VA;American Psychiatric Association (APA);2013;2015;;;<http://www.dsm5.org/Pages/PermissionsPolicy.aspx>;;Reprinted with permission from the Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition. Copyright 2013. American Psychiatric Association. All Rights Reserved. Unless authorized in writing by the APA, no part may be reproduced or used in a manner inconsistent with the APA's copyright. This prohibition applies to unauthorized uses or reproductions in any form. The American Psychiatric Association is not affiliated with and is not endorsing this product.;

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Contact: ;;American Psychiatric Association;1000 Wilson Boulevard;Suite 1825;Arlington;VA;USA;22209-3901;703-907-7300;;[apa@psych.org](mailto:apa@psych.org);;<http://www.dsm5.org/>;

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**DXP94** - ;;;DXplain (An expert diagnosis program);;Boston (MA);Massachusetts General Hospital;1994;;;

Contact: G. Octo Barnett, M.D.;;Laboratory of Computer Science, Massachusetts General Hospital;50 Staniford Street;5th Floor;Boston;MA;;02114;(617) 726-3939;(617) 726-8481;[Barnett.Octo@mg.harvard](mailto:Barnett.Octo@mg.harvard);

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**FMA4\_15** - Jose Leonardo V. Mejino Jr., M.D., Cornelius Rosse, M.D., DSc;;Foundation Model of Anatomy;;v4.15.0;Department of Biological Structure, University of Washington;;April 2019;;;

Contact: Jose L. V Mejino Jr. MD;Senior Scientist, Project Director and Curator of FMA;Department of Biological Structure, University of Washington;1959 NE Pacific Street;Box 357420;Seattle;WA;United States;98195;206-543-7118;206-543-1524;[fma@sig.biostr.washington.edu](mailto:fma@sig.biostr.washington.edu);;<http://si.washington.edu/projects/fma>;

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**GO2020\_05\_02** - ;;;Gene Ontology;;Gene Ontology Consortium;;May 2, 2020;;;

Contact: ;;Gene Ontology Consortium;;;;<https://github.com/geneontology/helpdesk/issues>;;<http://www.geneontology.org/>;

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**GS\_2021\_02\_09** (updated) - ;;;Gold Standard Drug Database;;302 Knights Run Ave, Suite 800, Tampa, FL

33602;Gold Standard;;;;;;;;;

### CATEGORY 3 RESTRICTIONS APPLY

Contact: RxNorm Customer Service;;U.S. National Library of Medicine;8600 Rockville Pike;;Bethesda;MD;United States;20894;(888) FIND-NLM;;[rxnorminfo@nlm.nih.gov](mailto:rxnorminfo@nlm.nih.gov);https://www.nlm.nih.gov/research/umls/rxnorm/

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**HCDT2021** (updated) - ;;;HCPCS Version of Current Dental Terminology;;;2021;Baltimore, MD;Centers for Medicare & Medicaid Services;2021;;;;;;;;;

### CATEGORY 3 RESTRICTIONS APPLY

Contact: Cynthia Hake;CMS HCPCS Workgroup Chair;Centers for Medicare & Medicaid Services (CMS);7500 Security Boulevard;;Baltimore;MD;United States;21244;1-410-786-3404;;[hpcps@cms.hhs.gov](mailto:hpcps@cms.hhs.gov);https://www.cms.gov/Medicare/Coding/MedHCPCSGenInfo/index.html;

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**HCPCS2021** (updated) - ;;;Healthcare Common Procedure Coding System (HCPCS);;;2021;Baltimore, MD;Centers for Medicare & Medicaid Services;2021;;;;;;;;;

The American Medical Association's CPT™ codes in HCPCS have a Source Abbreviation of HCPT04. The American Dental Association's CDT codes in HCPCS have a Source Abbreviation of HCDT4.

Contact: Cynthia Hake;CMS HCPCS Workgroup Chair;Centers for Medicare & Medicaid Services (CMS);7500 Security Boulevard;;Baltimore;MD;United States;21244;1-410-786-3404;;[hpcps@cms.hhs.gov](mailto:hpcps@cms.hhs.gov);https://www.cms.gov/Medicare/Coding/MedHCPCSGenInfo/index.html;

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**HCPT2021** (updated) - ;;;Version of Physicians' Current Procedural Terminology (CPT) included in the Healthcare Common Procedure Coding System (HCPCS);;;2021;Baltimore, MD;Centers for Medicare & Medicaid Services;2021;;;;;;;;;

### CATEGORY 3 RESTRICTIONS APPLY

Contact: Cynthia Hake;CMS HCPCS Workgroup Chair;Centers for Medicare & Medicaid Services (CMS);7500 Security Boulevard;;Baltimore;MD;United States;21244;1-410-786-3404;;[hpcps@cms.hhs.gov](mailto:hpcps@cms.hhs.gov);https://www.cms.gov/Medicare/Coding/MedHCPCSGenInfo/index.html;

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**HGNC2020\_05** - Gray KA, Yates B, Seal RL, Wright MW, Bruford EA;;HGNC Database;;The HUGO Gene Nomenclature Database;;;European Bioinformatics Institute Wellcome Trust Genome Campus;;;May 20, 2020;United Kingdom;;;;;;;;;

Contact: Elspeth Bruford, PhD;Group Co-ordinator;HUGO Gene Nomenclature Committee (HGNC);European Bioinformatics Institute (EMBL-EBI);Wellcome Trust Genome Campus;Hinxton;Cambridge;United Kingdom;CB10 1SD;;+44 (0) 1223 494 468;[hgnc@genenames.org](mailto:hgnc@genenames.org);https://www.genenames.org/;

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**HL7V2.5\_2003\_08\_30** - Mark McDougall, Executive Director, Health Level Seven; 3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104-4250;;;Health Level Seven Vocabulary (HL7);;;Ann Arbor (MI);;1998-



2002;;;;www.HL7.ORG;;;

Contact: Health Level Seven;;3300 Washtenaw Avenue;;Suite 227;Ann Arbor;MI;;48104-4250;(734)677-7777;  
(734)677-6622;[HQ@HL7.ORG](mailto:HQ@HL7.ORG);

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**HL7V3.0\_2020\_11** (updated) - ;;Health Level Seven (HL7) Vocabulary;;Ann Arbor, MI;;November 7,  
2020;;;<http://www.hl7.org/>;;

Contact: Health Level Seven International;;3300 Washtenaw Avenue;Suite 227;Ann Arbor;MI;USA;48104-4250;  
(734)677-7777;(734)677-6622;[HQ@HL7.ORG](mailto:HQ@HL7.ORG);;

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**HLREL\_1998** - Dr. Henk Lamberts;;University of Amsterdam;;ICPC2E-ICD10 relationships from  
(HLREL);;;;1998;;;;;

**CATEGORY 3 RESTRICTIONS APPLY**

Contact: Henk Lamberts;;University of Amsterdam;;;;;;H.Lamberts@AMC.UVA.NL;

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**HPO2020\_10\_12** (updated) - ;;The Human Phenotype Ontology (HPO);;;;The Human Phenotype Ontology  
Consortium;;October 12, 2020;;;;;

Contact: Dr. Peter N. Robinson;Professor of Computational Biology;The Jackson Laboratory for Genomic  
Medicine;10 Discovery Drive;;Farmington;CT;;06032;860.837.2095 t, 860.990.3130  
m;;[peter.robinson@jax.org](mailto:peter.robinson@jax.org);<https://hpo.jax.org/app/contact>;

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**ICD10\_1998** - ;;International Statistical Classification of Diseases and Related Health Problems (ICD-10);;10th  
rev.;Geneva (Switzerland);World Health Organization;1998;;;;;

**CATEGORY 3 RESTRICTIONS APPLY**

Contact: ;;Office of Publications, World Health Organization;1211 Geneva 27;;Switzerland;;;

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**ICD10\_2016** - ;;International Statistical Classification of Diseases and Related Health Problems (ICD-  
10);;Tenth Revision;Geneva, Switzerland;World Health Organization;2016;;;;ENG;;

**CATEGORY 3 RESTRICTIONS APPLY**

Contact: ;Office of Publications;World Health Organization;;Geneva;;Switzerland;1211 Geneva  
27;;[bookorders@who.int](mailto:bookorders@who.int);<http://www.who.int/about/en/>;

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**ICD10AE\_1998** - ;;International Statistical Classification of Diseases and Related Health Problems (ICD-10):  
Americanized Version.;;10th rev.;Geneva (Switzerland);World Health Organization;1998;;;;;

**CATEGORY 3 RESTRICTIONS APPLY**



Contact: ;;Office of Publications, World Health Organization;1211 Geneva 27;;Switzerland;;;

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**ICD10AM\_2000** - ;;National Centre for Classification in Health, University of Sydney, Faculty of Health Sciences;;International Statistical Classification of Diseases and Related Health Problems, 10th Revision, Australian Modification;;2nd Edition;;January 2000;;;

**CATEGORY 3 RESTRICTIONS APPLY**

Contact: ;;National Centre for Classification in Health, University of Sydney, Faculty of Health Sciences;PO Box 170;;Lidcombe;NSW;Australia;1825;+61 2 9351 9461;;[D.Truran@cchs.usyd.edu.au](mailto:D.Truran@cchs.usyd.edu.au);

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**ICD10AMAE\_2000** - ;;;International Statistical Classification of Diseases and Related Health Problems, Australian Modification (ICD-10-AM), Americanized English Equivalents;;;Bethesda (MD);National Library of Medicine;2000;;;

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Contact: ;;National Centre for Classification in Health University of Sydney Faculty of Health Sciences;PO Box 170;;Lidcombe;NSW;Australia;1825;+61 2 9351 9461;;

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**ICD10CM\_2021** - ;;National Center for Health Statistics (NCHS), under authorization by the World Health Organization;;ICD-10-CM: International Classification of Diseases, Tenth Revision, Clinical Modification;;;United States;;2021;;;

**CATEGORY 4 RESTRICTIONS APPLY** to U.S. UMLS USERS

**CATEGORY 3 RESTRICTIONS APPLY** to Non-U.S. UMLS USERS

Contact: Donna Pickett;Medical Classification Administrator;National Center for Health Statistics;3311 Toledo Road;;Hyattsville;MD;United States;20782;1-800-232-4636;;[nchsicd10cm@cdc.gov](mailto:nchsicd10cm@cdc.gov);<https://www.cdc.gov/nchs/icd/icd10cm.htm>;

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**ICD10DUT\_200403** - Hirs, W., H.W. Becker, C. van Boven, S.K. Oskam, I.M. Okkes, H. Lamberts;;;ICD-10, Dutch Translation;;;Amsterdam;Department of General Practice, Academic Medical Center/University of Amsterdam, Dutch College of General Practitioners (NHG);March 2004;200403;;;

**CATEGORY 3 RESTRICTIONS APPLY**

Contact: UMLS Support;;National Library of Medicine;;;;;[custserv@nlm.nih.gov](mailto:custserv@nlm.nih.gov);

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**ICD10PCS\_2021** - ;;Centers for Medicare and Medicaid Services;;International Classification of Diseases, 10th Revision, Procedure Coding System;;;Baltimore, MD;;2021;;;

Contact: Pat Brooks;Senior Technical Advisor;Center for Medicare and Medicaid Services;7500 Security Blvd. C4-08-06;;Baltimore;MD;United States;21244;;;[patricia.brooks2@cms.hhs.gov](mailto:patricia.brooks2@cms.hhs.gov);<https://www.cms.gov/Medicare/Coding/ICD10/index.html>;

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**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;;;;;

NLM has generated fully specified titles for ICD-9-CM codes in cases in which the official ICD- 9-CM titles consist of extensions to higher levels in the ICD-9-CM hierarchy. The fully specified names were produced with reasonable care, but have not yet been reviewed and approved by the producers of ICD-9-CM.

Contact: Patricia Brooks;Contact for Procedures;Health Care Financing Administration;Centers for Medicare & Medicaid Services;7500 Security Boulevard;Baltimore;MD;United States;21244;;;pbrooks@hcfa.gov;http://www.cms.hhs.gov/

[Read more information about this source](#)

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**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.

NLM has generated fully specified titles for ICD-9-CM codes in cases in which the official ICD- 9-CM titles consist of extensions to higher levels in the ICD-9-CM hierarchy. The fully specified names were produced with reasonable care, but have not yet been reviewed and approved by the producers of ICD-9-CM.

Contact: Contact for Diseases: Donna Pickett, National Center for Health Statistics; e-mail: [dfp4@cdc.gov](mailto:dfp4@cdc.gov);  
Contact for Procedures: Patricia Brooks, Health Care Financing Administration; e-mail: [pbrooks@hcfa.gov](mailto:pbrooks@hcfa.gov);

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**ICF\_2008\_12\_19** - ;;World Health Organization;;International Classification of Functioning, Disability and Health;;;Geneva, Switzerland;World Health Organization;2008;12/19/2008;;;http://www.who.int/classification/icf;;

**CATEGORY 4 RESTRICTIONS APPLY** to U.S. UMLS USERS

**CATEGORY 3 RESTRICTIONS APPLY** to Non-U.S. UMLS USERS

Contact: Nenad Kostanjsek;Technical Officer, Classification, Terminology and Standards (CTS), Department of Health Statistics and Informatics (HSI);World Health Organization;20, Avenue Appia;;CH-1211 Geneva 27;;Switzerland;;+41.22.791.3242;+41.22.791.4894;kostanjsekn@who.int;http://www.who.int/classification/icf;

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**ICF-CY\_2008** - ;;World Health Organization;;International Classification of Functioning, Disability and Health for Children and Youth;;;Geneva, Switzerland;World Health Organization;2008;;;http://www.who.int/classification/icf;;

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Contact: Nenad Kostanjsek;Technical Officer, Classification, Terminology and Standards (CTS), Department of Health Statistics and Informatics (HSI);World Health Organization;20, Avenue Appia;;CH-1211 Geneva 27;;Switzerland;;+41.22.791.3242;+41.22.791.4894;kostanjsekn@who.int;http://www.who.int/classification/icf

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**ICNP\_2019** - ;International Council of Nurses;;International Classification for Nursing Practice (ICNP);;;2019;Geneva, Switzerland;International Council of Nurses;2019;,,,,;

### CATEGORY 3 RESTRICTIONS APPLY

Contact: Amy Amherdt;Administrative Assistant, eHealth Programme, International Council of Nurses;International Classification for Nursing Practice (ICNP) Programme;University of Wisconsin - Milwaukee, College of Nursing;;Milwaukee,WI;United States;53201;(414) 229-5146;;[aamherdt@uwm.edu](mailto:aamherdt@uwm.edu);<https://www.icn.ch/what-we-do/projects/ehealth-icnp>;

[Read more information about this source](#)

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**ICNP\_2017** - ;;;International Classification for Nursing Practice (ICNP);;;2017;Geneva, Switzerland;International Council of Nurses;2017;,,,,;

### CATEGORY 3 RESTRICTIONS APPLY

Contact: Amy Coenen;Director, International Classification for Nursing Practice (ICNP) Programme;University of Wisconsin - Milwaukee, College of Nursing;;Milwaukee,WI;United States;53201;(414) 229-5146;;[coenena@uwm.edu](mailto:coenena@uwm.edu);<https://www.icn.ch/what-we-do/projects/ehealth-icnp>;

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**ICPC93** - ;;;The International Classification of Primary Care (ICPC);;;Denmark;World Organisation of Family Doctors;1993;,,,,;

This year, the Metathesaurus has also included translations of ICPC93 in the following languages:

- Basque (ICPCBAQ\_1993),
- Danish (ICPCDAN\_1993),
- Dutch (ICPCDUT\_1993),
- Finnish (ICPCFIN\_1993),
- French (ICPCFRE\_1993),
- German (ICPCGER\_1993),
- Hebrew (ICPCHEB\_1993),
- Hungarian (ICPCHUN\_1993),
- Italian (ICPCITA\_1993),
- Norwegian (ICPCNOR\_1993),
- Portuguese (ICPCPOR\_1993),
- Spanish (ICPCSPA\_1993), and
- Swedish (ICPCSWE\_1993).

Contact: UMLS Support;;National Library of Medicine;,,,,;custserv@nlm.nih.gov;

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**ICPC2EDUT\_200203** - Hirs, W., H.W. Becker, C. van Boven, S.K. Oskam, I.M. Okkes, H. Lamberts.;;International Classification of Primary Care 2E: 2nd ed. electronic. Dutch Translation;;2nd ed. ;Amsterdam;Department of General Practice, Academic Medical Center/University of Amsterdam, Dutch College of General Practitioners (NHG);March 2002;,,,,;

### CATEGORY 3 RESTRICTIONS APPLY

Contact: UMLS Support;;National Library of Medicine;,,,,;custserv@nlm.nih.gov;

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**ICPC2EENG\_200203** - ;;Classification Committee of the World Organization of National Colleges, Academies and Academic Associations of General Practitioners/Family Physicians (WONCA), known more briefly as the World Organization of Family Doctors;Henk Lamberts and Inge Hofmans-Okkes;International Classification of Primary Care;;;2nd ed.;World Organization of Family Doctors;2002;,,,,,,

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**ICPC2ICD10DUT\_200412** - ;;Classification Committee of the World Organization of National Colleges, Academies and Academic Associations of General Practitioners/Family Physicians (WONCA), known more briefly as the World Organization of Family Doctors;Henk Lamberts and Inge Hofmans-Okkes;International Classification of Primary Care, Dutch Translation;;;2nd ed.;World Organization of Family Doctors;2002;,,,,,,

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**ICPC2ICD10ENG\_200412** - ;;Classification Committee of the World Organization of National Colleges, Academies and Academic Associations of General Practitioners/Family Physicians (WONCA), known more briefly as the World Organization of Family Doctors;Henk Lamberts and Inge Hofmans-Okkes;International Classification of Primary Care;;;2nd ed;World Organization of Family Doctors;2002;,,,,,,

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**ICPC2P\_2005** - ,,,,;ICPC-2 PLUS;,,,Sydney;Family Medicine Research Centre, University of Sydney;December 2005;,,,,,,

CATEGORY 3 RESTRICTIONS APPLY

Contact: A/Prof Helena Britt;Director, Family Medicine Research Centre, Acacia House, Westmead Hospital;;PO Box 533;;Wentworthville;NSW;Australia;2145;+61 2 9845 8150;+612 9845 8155;fmrc@fmrc.org.au;http://www.fmrc.org.au/

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**ICPCBAQ\_1993** - ,,,,;The International Classification of Primary Care (ICPC). Basque Translation;,,,Denmark;World Organisation of Family Doctors;1993;,,,,,,

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**ICPCDAN\_1993** - ,,,,;The International Classification of Primary Care (ICPC). Danish Translation;,,,Denmark;World Organisation of Family Doctors;1993;,,,,,,

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**ICPCDUT\_1993** - ;;;The International Classification of Primary Care (ICPC). Dutch Translation.;;;Denmark;World Organisation of Family Doctors;1993;

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**ICPCHEB\_1993** - ;;;The International Classification of Primary Care (ICPC). Hebrew Translation.;;;Denmark;World Organisation of Family Doctors;1993;

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**ICPCHUN\_1993** - ;;;The International Classification of Primary Care (ICPC). Hungarian Translation.;;;Denmark;World Organisation of Family Doctors;1993;

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**ICPCITA\_1993** - ;;;The International Classification of Primary Care (ICPC). Italian Translation.;;;Denmark;World Organisation of Family Doctors;1993;

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**ICPCNOR\_1993** - ;;;The International Classification of Primary Care (ICPC). Norwegian Translation.;;;Denmark;World Organisation of Family Doctors;1993;

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**ICPCPOR\_1993** - ;;The International Classification of Primary Care (ICPC). Portuguese Translation;;Denmark;World Organisation of Family Doctors;1993;;

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**JABL99** - ;;Online Congenital Multiple Anomaly/Mental Retardation Syndromes;;1999;;

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**KCD5\_2008** - ;;Korean Standard Classification of Disease Version 5;;Seoul, Korea;;2008;2008;Seoul, Korea;;KOR;;

**CATEGORY 3 RESTRICTIONS APPLY**

Contact: Bo-Young Jung;;Korea Centers for Disease Control and Prevention;;Korea;;+82-2-3481-6791;+82-2-532-3820;happiness630@hanmail.net;

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**LCH90** - ;;Library of Congress Subject Headings;;12th ed.;Washington (DC);Library of Congress;1989;;

There are later editions of this source that are not reflected in the UMLS Metathesaurus. This source has considerable non-biomedical content and will never be included in the Metathesaurus in its entirety.

Contact: ;;http://www.lcweb.loc.gov

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**LCH\_NW\_2013** - ;;Northwestern University Library;;Library of Congress Subject Headings, Northwestern University subset;;Evanston, IL;;2013;;

Contact: Gary L. Strawn;Authorities Librarian;Northwestern University Library;1970 Campus

Drive;;Evanston;IL;United States;60208-2300;(847)491-2788;(847)491-8306;[mrsmith@northwestern.edu](mailto:mrsmith@northwestern.edu);<https://galter.northwestern.edu/About%20us/northwestern-university-libraries-lcsh-mesh-mapping-project>;

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This source has been translated into many languages. To date, eight of the translations have been incorporated into the UMLS Metathesaurus.

Contact: John Kilbourne, M.D.;Head, MeSH Section;National Library of Medicine;6701 Democracy Boulevard;;Suite 202;Bethesda;MD;United States;20894;(301)-496-1495;(301)-402-2002;kilbourj@mail.nih.gov;http://www.nlm.nih.gov/mesh;

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Contact: Dr.Yannick Pilatte;;INSERM, DISC-Information Scientifique et Technique;Kadence Building;86 Regnault Street;Paris;;France;75013;(33)-1-49-59-53-92;(33)-1-49-59-56-03;yannick.pilatte@inserm.fr;https://www.inserm.fr/;

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**MSHJPN2014** - Igaku-Chuo-Zasshi.;;NPO Japan Medical Abstracts Society (JAMAS);JAMAS Japanese Medical Thesaurus (JJMT);Tokyo, Japan;;2015;;Japanese;;

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**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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**MTHICPC2EAE\_200203** - Henk Lamberts and Inge Hofmans-Okkes;;Classification Committee of the World Organization of National Colleges, Academies and Academic Associations of General Practitioners/Family Physicians (WONCA), known more briefly as the World Organization of Family Doctors;;International Classification of Primary Care 2nd Edition, Electronic, 2E, American English Equivalents,,,,Amsterdam;World Organization of Family Doctors;2002,,,,,

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**NANDA-I\_2018-2020** - Sparks Ralph, Sheila, Craft-Rosenberg, Martha, Herdman, T. Heather, Lavin, Mary Ann, editors.;;;NANDA International, Inc. Nursing Diagnoses: Definitions and Classification 2018-2020;,,,Tenth;Oxford;Wiley Blackwell;2014;,,,,,

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**NCI2020\_JAX\_2009D** (updated) - ;;;Jackson Laboratories;;Jackson Laboratories Mouse Terminology, adapted for NCI use;;;20.09d;;;October 9, 2020;;;

Contact: Enterprise Vocabulary Services (EVS);;National Cancer Institute;;240-276-5541, 1-888-478-4423 (toll free);;ncicbiit@mail.nih.gov;https://cbiit.cancer.gov/application-support;

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**NCI2020\_KEGG\_2009D** (updated) - ;;;Kyoto Encyclopedia of Genes and Genomes (KEGG), KEGG Pathway Database, adapted for NCI use;;;20.09d;;;October 9, 2020;;;

Contact: Enterprise Vocabulary Services (EVS);;National Cancer Institute;;240-276-5541, 1-888-478-4423 (toll free);;ncicbiit@mail.nih.gov;https://cbiit.cancer.gov/application-support;

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**NCI2020\_NCI-GLOSS\_2009D** (updated) - ;;;National Cancer Institute;;NCI Dictionary of Cancer Terms;;;20.09d;;;October 9, 2020;Bethesda, MD;;;

Contact: Enterprise Vocabulary Services (EVS);;National Cancer Institute;;240-276-5541, 1-888-478-4423 (toll free);;ncicbiit@mail.nih.gov;https://cbiit.cancer.gov/application-support;

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**NCI2020\_NCI-HGNC\_2009D** (updated) - ;;;NCI HUGO Gene Nomenclature;;;20.09d;;;October 9, 2020;;;

Contact: Enterprise Vocabulary Services (EVS);;National Cancer Institute;;240-276-5541, 1-888-478-4423 (toll free);;ncicbiit@mail.nih.gov;https://cbiit.cancer.gov/application-support;

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**NCI2020\_NCI-HL7\_2009D** (updated) - ;;;Health Level 7;;NCI Health Level 7;;;20.09d;;;October 9, 2020;;;

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**NCI2020\_NCPDP\_2009D** (updated) - ;;;National Council for Prescription Drug Programs;;;20.09d;Scottsdale, AZ;;;October 9, 2020;;;

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**NCI2020\_NICHD\_2009D** (updated) - ;;;National Institute of Child Health and Human Development, National Institutes of Health;;;20.09d;;;October 9, 2020;;;

Contact: Enterprise Vocabulary Services (EVS);;National Cancer Institute;;240-276-5541, 1-888-478-4423 (toll free);;ncicbiit@mail.nih.gov;https://cbiit.cancer.gov/application-support;

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**NCI2020\_PCDC\_2009D** (new) - ;;;Pediatric Cancer Data Commons;;;20.09d;;;October 9, 2020;;;

Contact: Enterprise Vocabulary Services (EVS);;National Cancer Institute;;240-276-5541, 1-888-478-4423 (toll free);;ncicbiit@mail.nih.gov;https://cbiit.cancer.gov/application-support;

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**NCI2020\_PID\_2009D** (updated) - Carl F. Schaefer, Kira Anthony, Shiva Krupa, Jeffrey Buchoff, Matthew Day, Timo Hannay & Kenneth H. Buetow ;;;PID: The Pathway Interaction Database;;;20.09d;;;October 9, 2020;;;

Contact: Enterprise Vocabulary Services (EVS);;National Cancer Institute;;240-276-5541, 1-888-478-4423 (toll free);;ncicbiit@mail.nih.gov;https://cbiit.cancer.gov/application-support;

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**NCI2020\_PI-RADS\_2009D** (updated) - ;;;Prostate Imaging Reporting and Data System;;;20.09d;;;October 9, 2020;;;<http://www.acr.org/Quality-Safety/Resources/PIRADS>;;;

Contact: Enterprise Vocabulary Services (EVS);;National Cancer Institute;;240-276-5541, 1-888-478-4423 (toll free);;ncicbiit@mail.nih.gov;https://cbiit.cancer.gov/application-support;

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**NCI2020\_RENI\_2009D** (updated) - ;;;Registry Nomenclature Information System;;;20.09d;;;October 9, 2020;;;

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**NCI2020\_UCUM\_2009D** (updated) - Schadow, Gunther and McDonald, Clement;;Regenstrief Institute, Inc. and The UCUM Organization;;Unified Code for Units of Measure;;;20.09d;;;October 9, 2020;Indianapolis, IN;;;

Contact: Enterprise Vocabulary Services (EVS);National Cancer Institute;240-276-5541, 1-888-478-4423 (toll free);ncicbiit@mail.nih.gov;https://cbiit.cancer.gov/application-support;

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**NCI2020\_ZFin\_2009D** (updated) - ;Zebrafish Information Network (ZFIN);Zebrafish Model Organism Database;20.09d;University of Oregon;October 9, 2020;Eugene, OR;

Contact: Enterprise Vocabulary Services (EVS);National Cancer Institute;240-276-5541, 1-888-478-4423 (toll free);ncicbiit@mail.nih.gov;https://cbiit.cancer.gov/application-support;

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**NCISEER\_1999** - ;NCI Surveillance, Epidemiology, and End Results (SEER) conversions between ICD-9-CM and ICD-10 neoplasm codes;Bethesda, MD;National Cancer Institute;June 1999;https://seer.cancer.gov/;Phone: 301-496-8510.;

Contact: ;National Cancer Institute;Bethesda;MD;301-496-8510;

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**NDDF\_2021\_02\_10** (updated) - ;FDB MedKnowledge (formerly NDDF Plus);February 10, 2021;South San Francisco, CA;First Databank;

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Contact: ;First Databank Customer Support;701 Gateway Blvd, Suite 600;South San Francisco,CA;United States;94080;800-633-3453;cs@fdbhealth.com;

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**NEU2020\_05\_28** - ;NeuroNames, BrainInfo (1991-present);National Primate Research Center, University of Washington;May 28, 2020;http://www.braininfo.org;

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Contact: Douglas M. Bowden, MD;Professor of Psychiatry and Behavioral Sciences;Department of Psychiatry & Behavioral Sciences, University of Washington School of Medicine;UW Department of Psychiatry & Behavioral Sciences;1959 NE Pacific Street;Seattle;WA;United States;98195;dmbowden@u.washington.edu;http://braininfo.rprc.washington.edu/copyright.aspx;

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**NIC7** - ;Butcher, H., Bulechek, G., Dochterman, J., & Wagner, C. (Eds.);Nursing Interventions Classification (NIC) (7th ed.);7th ed.;St. Louis, MO;Elsevier;2018;

**CATEGORY 3 RESTRICTIONS APPLY**

Contact: Bonita Allen;Education Solutions Consultant ;Elsevier Special Markets;3251 Riverport Lane;Maryland Heights;MO;63043;b.allen.1@elsevier.com;https://nursing.uiowa.edu/cncce/copyright-licensing;

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**NOC6** - ;Moorhead, S., Swanson, E. Johnson, M., & Maas, M. L. (Eds.);Nursing outcomes classification (NOC): Measurement of health outcomes (6th ed.);6th ed.;St. Louis, MO;Elsevier;2018;

### CATEGORY 3 RESTRICTIONS APPLY

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**NUCCHCPT\_20.1** (new) - ;National Uniform Claim Committee;;National Uniform Claim Committee - Health Care Provider Taxonomy;;;;American Medical Association;;July 1, 2020;Chicago, IL;;;;;

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Contact: Nancy Spector;Chair, National Uniform Claim Committee;AMA, Coding and HIT Advocacy;119 Cherry Hill Rd, Suite 330;;Parsippany,NJ;United States;07054;(973)263-9898 ext 204;;nancy.spector@ama-assn.org;http://www.nucc.org/index.php/code-sets-mainmenu-41/provider-taxonomy-mainmenu-40;

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**OMIM2021\_02\_08** (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 8, 2021;;;;;

Contact: ;Johns Hopkins University;;Baltimore;MD;;;;JHTT-Communications@jhmi.edu;https://www.omim.org/help/copyright;

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**OMS2005** - Martin, Karen S.;;;The Omaha System: A Key to Practice, Documentation, and Information Management;;;;2nd;Omaha, NE;Health Connections Press;2005;;;;;

### CATEGORY 1 RESTRICTIONS APPLY

Contact: Karen S. Martin, RN, MSN, FAAN;Health Care Consultant;Martin Associates;5711 N. 167th Ave. Circle;;Omaha;Nebraska;United States;68116;1-402-333-1962;;martinks0007@gmail.com ;http://www.omahasystem.org

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**PCDS97** - Ozbolt, Judy Grace;;Patient Data Care Set (PCDS);;Version 4.0;Nashville, TN;;1998;;;;;

### CATEGORY 3 RESTRICTIONS APPLY

Contact: Judy Ozbolt;;Vanderbilt School of Nursing 400-C Godchaux Hall;;Nashville,TN;;37240-0008;(615)343-3291;;judy.ozbolt@mcmail.vanderbilt.edu;

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**PDQ\_2018\_10\_27** - ;;;Physician Data Query;;;;National Cancer Institute;;October 27, 2018;;;;;

Contact: ;National Cancer Institute;;;;;https://www.cancer.gov/publications/pdq;

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**PNDS\_4\_2018** - ;AORN;Carol Petersen;Perioperative Nursing Data Set, 4th edition, 2018;;3rd edition;Denver, CO;AORN, Inc.;;May 2018;;;;;

### CATEGORY 3 RESTRICTIONS APPLY

Contact: Sharon Giarrizzo-Wilson;;AORN Syntegrity Inc.;2170 S Parker Rd Suite 420;;Denver;CO;United States;80231;;;info@aorn.org;;

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**PPAC98** - ;;;Pharmacy Practice Activity Classification (PPAC);;;Version 1;Washington (DC);American Pharmaceutical Association;1998;,,,,;

### CATEGORY 3 RESTRICTIONS APPLY

Contact: Scott Antall;;American Pharmaceutical Association - Academy of Pharmaceutical Research and Science;2215 Constitution Avenue NW;;Washington;DC;;20037-2985;;;ssa@mail.aphanet.org;

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**PSY2004** - ;;American Psychological Association;Lisa A. Gallagher;Thesaurus of psychological index terms;;;10th ed., 30th anniversary, 1974-2004;Washington, DC;American Psychological Association;2005;,,,,;

### CATEGORY 3 RESTRICTIONS APPLY

Contact: Lisa A. Gallagher;;American Psychological Association;750 First Street, NE;;Washington;DC ;;20002-4242;202-336-5726;;LGallagher@apa.org;

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**QMR96** - ;;;Quick Medical Reference (QMR);;;San Bruno (CA);First DataBank;1997;,,,,;

Contact: ;;Quick Medical Reference, First Databank;1111 Bayhill Drive;;San Bruno;CA;;94066;,,;

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**RAM99** - Dr. Randolph A. Miller;;;QMR clinically related terms;1999;,,,,;

Contact: Dr. Randolph A. Miller;Chair;Dept. of Biomedical Informatics, Vanderbilt University;436 Eskind Biomedical Library;2209 Garland Ave.;Nashville;TN;;37232-8340;;;randolph.a.miller@vanderbilt.edu;

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**RCD99** - ;;;Clinical Terms Version 3 (CTV3) (Read Codes) (Q199);;;National Health Service National Coding and Classification Centre; March, 1999;,,,,;

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Contact: ;;NHS Information Authority Loughborough;;Woodgate;Loughborough;Leicestershire ;;LE11 2TG;+44 (0) 1509 211611;;helpdesk3@nhscce.exec.nhs.uk;

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**RCDAE\_1999** - ;;;American English equivalent of the Clinical Terms ;;;Version 3 (Q1, 1999);Bethesda (MD);National Library of Medicine, UMLS project;1999;,,,,;

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**RCDSA\_1999** - ;;;;American English equivalent of synthesized terms from the Clinical Terms ;;;Version 3 (Q1, 1999);Bethesda (MD);National Library of Medicine, UMLS project;1999;;;;;;

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Contact: ;NHS Information Authority Loughborough;Woodgate;;Loughborough;Leicestershire ;LE11 2TG;;+44 (0) 1509 211611;[helpdesk3@nhsccll.exec.nhs.uk](mailto:helpdesk3@nhsccll.exec.nhs.uk);

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**RCDSY\_1999** - ;;;;Synthesized Read terms (without initial bracketed letters) of the Clinical Terms ;;;Version 3 (Q1, 1999);Bethesda (MD);National Library of Medicine, UMLS project;1999;;;;;;

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**RXNORM\_20AA\_210301F** (updated) - ;;;;RxNorm ;;;META2020AA Full Update 2021\_03\_01;Bethesda, MD;National Library of Medicine ;;;;

This release contains concepts created by the National Library of Medicine which express the meaning of a drug name in a normalized form. These concepts relate the names of orderable medications to a dose form and the components of those medications. For further discussion, see the article at:

<http://umlsinfo.nlm.nih.gov/RxNorm.html>

Contact: RxNorm Customer Service;;U.S. National Library of Medicine;8600 Rockville Pike;;Bethesda;MD;United States;20894;(888) FIND-NLM;;[rxnorminfo@nlm.nih.gov](mailto:rxnorminfo@nlm.nih.gov);https://www.nlm.nih.gov/research/umls/rxnorm/

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**SCTSPA\_2020\_10\_31** (updated) - ;SNOMED International;;SNOMED CT Spanish Edition ;;;Spanish Language Edition;London, United Kingdom ;;;October 31, 2020 ;;;;

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**SNM2** - ;;;Cote, Roger A.;Systematized Nomenclature of Medicine;;;2nd ed.;Skokie (IL);College of American Pathologists;1982;;;;;;

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**SNMI98** - Cote, Roger A.;;College of American Pathologists;;Systematized Nomenclature of Human and Veterinary Medicine: SNOMED International;;;Version 3.5;Schaumburg (IL);American Veterinary Medical Association;1998;;;;;;

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**SNOMEDCT\_US\_2021\_03\_01** (updated) - ;;;SNOMED International;;US Edition of SNOMED CT;;;London, United Kingdom;SNOMED International;;March 1, 2021;;;;;;

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**SNOMEDCT\_VET\_2020\_10\_08** (updated) - ;;Veterinary Terminology Services Laboratory (VTSL), Virginia Maryland Regional College of Veterinary Medicine;;Veterinary Extension to SNOMED CT;;;Blacksburg, VA;Veterinary Terminology Services Laboratory (VTSL);;October 2020;;;https://vtsl.vetmed.vt.edu/;;

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**SOP9.2** (updated) - ;;National Association of Health Data Organizations (NAHDO);;Source of Payment Typology;;;Version 9.2;;National Association of Health Data Organizations (NAHDO);;December, 2020;;;;

Contact: Barbara Rudolph;;National Association of Health Data Organizations (NAHDO);;Barbara.Rudolph@wisc.edu;https://www.nahdo.org/node/1043;

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**SPN2003** - ;;Standard Product Nomenclature (SPN);;Rockville, (MD); U.S. Food and Drug Administration;2003;;;

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**SRC** - ;;UMLS Metathesaurus Source Terminologies;;;Bethesda, MD;National Library of Medicine;;;

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**TKMT2011** - ;;;;Traditional Korean Medical Terms;;;;;2011;Korea;;;;KOR;;

Contact: Jinhyun Kim;Researcher/O.M.D;Information Research Center, TKM Information Research Division, Korea Institute of Oriental Medicine;483 Expo-ro, Yuseong-gu;;Daejeon;;Korea;305-811;+82-42-868-9565, +82-10-2237-2378;+82-42-861-9421;[kjh970203@kiom.re.kr](mailto:kjh970203@kiom.re.kr);

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**ULT93** - Bell, Douglas;;;;Ultrasound Structured Attribute Reporting (UltraSTAR);;;;Boston (MA);Brigham & Womens Hospital;1993;;;;;

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Contact: Robert Greenes, M.D., Ph.D.;;Brigham & Womens Hospital;Department of Radiology;75 Francis Street;Boston ;MA;;02115;(617) 732-6281;;[greenes@harvard.edu](mailto:greenes@harvard.edu);

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**UMD2021** (updated) - ;;ECRI Institute;;Universal Medical Device Nomenclature System;;;2021;Plymouth Meeting, PA;;;;;

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Contact: Elizabeth Richardson;Director of Database and Nomenclature Systems;ECRI;5200 Butler Pike;;Plymouth Meeting;Pennsylvania;United States;19462-1298;1-610-825-6000 ext. 5891;1-610-834-1275;[umdns@ecri.org](mailto:umdns@ecri.org);<https://www.ecri.org/components/UMDNS/Pages/default.aspx>;

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**USP\_2021\_02\_15** (updated) - ;;;;USP Compendial Nomenclature;;;;February, 2021;;United States Pharmacopeia;February, 2021;;;;;

Contact: Steven Emrick;Senior HIT Product Manager;United States Pharmacopeia;12601 Twinbrook Parkway;;Rockville;MD;US;20852-1790;1-800-227-8772;;[HealthcareQuality@usp.org](mailto:HealthcareQuality@usp.org);<http://www.usp.org/health-quality-safety>

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**USPMG\_2020** - ;;;;USP Medicare Model Guidelines;;;;Version 8;;United States Pharmacopeia;February 1, 2020;;;;;

Contact: Jami S. Earnest, PharmD;Senior Scientific Liaison;United States Pharmacopeia;12601 Twinbrook Parkway;;Rockville;MD;US;20852-1790;1-800-227-8772;;[ModelGuidelines@usp.org](mailto:ModelGuidelines@usp.org);<https://www.usp.org/health-quality-safety/usp-medicare-model-guidelines>;

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**UWDA173** - Jose Mejino, M.D.;;;;University of Washington Digital Anatomist, (UWDA);;;;Version 1.7.3;Seattle (WA);University of Washington;March, 2003;;;;;

Contact: Jose Mejino, M.D.;;University of Washington Digital Anatomist Symbolic Knowledge Base, University of Washington Digital Anatomist Information System, Structural Informatics Group;Department of Biological Structure;;Seattle;WA;;98195;;[onard@biostr.washington.edu](mailto:onard@biostr.washington.edu);

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**VANDF\_2021\_01\_29** (updated) - ;;;;Veterans Health Administration National Drug File;;;;January 29,

2021;Washington, DC;U.S. Department of Veterans Affairs;,,,,,

**\*NOTE:** Now a CATEGORY 0.

Contact: Michael Lincoln, M.D.;;U.S. Department of Veterans Affairs, Veterans Health Administration;;;Washington;DC;United States;;;michael.lincoln@med.va.gov;http://www.pbm.va.gov/default.aspx

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**WHO97** - ;;;;WHO Adverse Drug Reaction Terminology (WHOART);;;;Uppsala (Sweden);WHO Collaborating Centre for International Drug Monitoring;1997;,,,,,

#### CATEGORY 2 RESTRICTIONS APPLY

The Metathesaurus includes translations of WHO97 in:

- French (WHOFRE\_1997),
- German (WHOGER\_1997),
- Portuguese (WHOPOR\_1997), and
- Spanish (WHOSPA\_1997).

Contact: ;;WHO Collaborating Centre for International Drug Monitoring;Stora Target 3;S-753 20;Uppsala;;Sweden;;;+46-18-656080;;

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**WHOFRE\_1997** - ;;;;WHO Adverse Drug Reaction Terminology (WHOART). French Translation.;;;;Uppsala (Sweden);WHO Collaborating Centre for International Drug Monitoring;1997;,,,,,

#### CATEGORY 2 RESTRICTIONS APPLY

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> [License Agreement Appendix 2](#)

## UMLS - SNOMED CT ® Affiliate License Agreement

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### APPENDIX 2

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In this License Agreement, terms defined in Appendix A (**Defined Terms**) have the meanings set out in that Appendix.

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The Licensors grants the Licensee, subject to the terms of this License Agreement, a perpetual (subject to revocation in accordance with **clause 5**), worldwide, non- exclusive, non-transferable license for the term of this License Agreement to:

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2.2.2 in the development and operation of the Licensee's information systems;

2.2.3 for the Licensee's research purposes; and/or

2.2.4 in the Licensee's systems (including browsers and data analysis systems) made available to the general public for accessing and/or retrieving any part of the International Release and/or data encoded using the foregoing, provided that users of those systems are not able to extract any substantial portion of SNOMED CT and provided further that no fee is charged for access to those systems except where access is incidental to the provision of training or consulting services.

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2.4 The Licensee is not permitted to translate any part of the International Release into any other human language without the prior written consent of the Licensors.

2.5 Each sub-license granted by the Licensee under clause **2.1.5** must:

2.5.1 not grant the End User any greater rights in respect of the International Release than the Licensee itself has under this License Agreement;

2.5.2 not permit the End User to do any act or thing in respect of the International Release that the Licensee is prohibited from doing under this License Agreement;

2.5.3 not permit the End User to sub-license or transfer any of its rights under the sub-license (unless the End User is also an Affiliate, in which case that Affiliate shall be entitled to sub-license further its rights under the sub-license with the Licensee, subject to the same restrictions as apply to sub-licensing the International Release under the Affiliate's license agreement with the Licensor);

2.5.4 terminate automatically upon termination of this License Agreement;

2.5.5 provide that the End User may apply directly to the Licensor upon receiving notice that the sub-license will terminate in accordance with **clause 2.5.4**, and that the Licensor may in such circumstances (but shall not be obliged to):

(a) grant the End User a license in respect of the International Release for a limited period in order to enable the End User to continue to use the Licensee Products that are subject to the sub-license during that period; or

(b) give the End User an assurance or undertaking that for a limited period the Licensor will not seek to prevent the End User from using the Licensee Products; and

2.5.6 permit the Licensee to disclose the terms of the sub-license to the Licensor in accordance with **clauses 7 and 8**.

2.6 If the Licensee becomes aware of any material error or change or correction needed in the International Release, the Licensee agrees to advise the Licensor promptly of such error, change or correction by following the Licensor's procedures for change notification that the Licensor prescribes by Regulations and notifies to the Licensee from time to time.

2.7 The Licensee shall comply with the Internet security measures that the Licensor prescribes by Regulations and notifies to the Licensee from time to time.

### 3. EXTENSIONS AND DERIVATIVES

3.1 The Licensee may not create any Standards-Based Extension or any Standards Based Derivative unless it has first been issued with a Namespace Identifier by or on behalf of the Licensor.

3.2 The Licensee may request that the Licensor issue it with a Namespace Identifier, and the Licensor shall not unreasonably refuse to do so taking into account amongst other things quality assurance, governance processes, Standards and Regulations.

3.3 The Licensee shall ensure that all Standards-Based Extensions and Standards Based Derivatives that the Licensee creates under this License Agreement are created in accordance with, and comply with, all applicable Standards (including, without limitation, as to the use of Namespace Identifiers).

3.4 Subject to **clauses 3.5 and 3.6**, the Licensee shall own all Intellectual Property Rights in all Extensions and Derivatives that the Licensee creates under this License Agreement. The Licensee may not assign or otherwise transfer those Intellectual Property Rights to any other person unless (i) that person is an Affiliate and, in the case of Standards-Based Extensions or Standards-Based Derivatives, has a Namespace Identifier; and (ii) the transfer is notified in writing to the Licensor within thirty (30) days after the transfer.

3.5 The Licensee shall, if requested by the Licensor, transfer to the Licensor or a Member nominated by the Licensor all of its Intellectual Property Rights in such Standards-Based Extensions (or parts thereof) as the Licensor may specify.

3.6 The Licensee shall, if requested by the Licensor and agreed by the Licensee in the Licensee's sole discretion, transfer to the Licensor or a Member nominated by the Licensor all of its Intellectual Property Rights in such Standards-Based Derivatives as the Licensor may specify.

3.7 Upon the transfer to the Licensor, or to a Member, of the Intellectual Property Rights in any Standards-Based Extension (or part thereof) or Standards-Based Derivative in accordance with **clauses 3.5 or 3.6**:

3.7.1 responsibility for the maintenance and distribution of that Extension (or part thereof) or Derivative shall also transfer from the Licensee to the Licensor or the Member (as the case may be); and

3.7.2 the Licensor hereby grants a license back to the Licensee from the Licensor or will procure from the Member a license back to the Licensee (as the case may be) of that Extension (or part thereof) or Derivative, on the same terms as apply to the International Release under **clause 2** of this License Agreement, until that Extension (or part thereof) or Derivative becomes part of the International Release or the Member's National Release (as the case may be).

#### **4. MODIFICATIONS TO THE INTERNATIONAL RELEASE**

4.1 Subject to **clause 2.1.4**, the Licensee may not modify any part of the SNOMED CT Core distributed as part of the International Release or as part of a Member's National Release.

4.2 Subject to any express and specific statement to the contrary in the documentation distributed as part of the International Release, the Licensee may not modify any of the documentation (including Specifications) or software (unless provided in source code form) distributed as part of the International Release.

4.3 The Licensee may, by written notice, request the Licensor to modify the SNOMED CT Core. Upon receipt of such written notice, the Licensor shall consult with the Licensee and shall give due consideration as to whether the proposed modification should be made based on the Licensor's editorial guidelines and policies. Following due consideration of the matter, including consideration of any information presented by the Licensee, the Licensor shall inform the Licensee whether the proposed modification shall be made and if the Licensor agrees that the proposed modification should be made, the Licensor shall give a non-binding indication of when, reasonably and in good faith, it anticipates that the proposed modification will be made. If the Licensee would like the content of the proposed modification to be developed more quickly than the Licensor has indicated, the Licensee may itself undertake or procure the undertaking of the development of the content of the proposed modification (outside of any existing Licensor's support services contract). On receipt of the developed content of the proposed modification, the Licensor will then give due consideration as to whether the developed content meets the Licensor's quality assurance, other governance processes, Standards and Regulations. If the developed content meets the Licensor's quality assurance, other governance processes, Standards and Regulations then the Licensor shall incorporate the modification into the SNOMED CT Core according to its schedule which will give due consideration as to when the proposed modification shall be incorporated into the SNOMED CT Core, taking into account other proposals for the modification of the SNOMED CT Core and the work required to include the proposed modification in the SNOMED CT Core.

#### **5. TERM AND TERMINATION**

5.1 This License Agreement shall commence on the date on which it comes into effect in accordance with the notice at the beginning of this License Agreement, and shall continue until terminated in accordance with this **clause 5**.

5.2 Either party may terminate this License Agreement if the other party commits a material breach of any of its

obligations under this License Agreement (which, in the case of the Licensee, shall include, without limitation, any failure to pay License Fees when due under **clause 7**) in accordance with the following procedure:

5.2.1 the party seeking to terminate the License Agreement (the "**Terminating Party**") shall serve an escalation notice (the "**Escalation Notice**") on the other party (the "**Defaulting Party**") requiring the Defaulting Party to nominate a member of its senior management team to meet with a member of the Terminating Party's senior management team to seek to resolve in good faith the matter giving rise to the service of the escalation notice.

5.2.2 The representatives of the parties identified in accordance with clause 5.2.1 shall meet in good faith to seek to resolve the matter. If they are unable to resolve the matter within 45 days of the date of the Escalation Notice the Terminating Party may serve a formal breach notice (the "**Breach Notice**") on the Defaulting Party requiring it to remedy the breach within 90 days.

5.2.3 If the Defaulting Party does not remedy the breach within 90 days of the date of the Breach Notice the Terminating Party may terminate the License Agreement by giving 180 days' written notice to the Defaulting Party (the "**Termination Notice**").

5.3 Neither party may terminate this License Agreement except in accordance with this **clause 5**.

5.4 The Licensee may terminate this License Agreement by giving up to twelve (12) months' prior written notice to the Licensors.

5.5 Upon termination of this License Agreement in accordance with this **clause 5**, all licenses granted under this License Agreement shall automatically and immediately be revoked.

5.6 The Licensee shall, by no later than forty five (45) days after termination of this License Agreement for any reason, remove all copies of the International Release from its computer systems and destroy all copies of electronic, paper copy and other media containing or representing any part of the International Release. The Licensee shall, if requested by the Licensors, certify in writing to the Licensors that the Licensee has complied with its obligations under this **clause 5.6**.

5.7 The Licensee shall, as soon as reasonably practicable following either party giving a Termination Notice for any reason, and in any event by no later than ninety (90) days after such Termination Notice is given, give written notice of such termination to each End User that the Licensee reasonably believes to be a current user of a Licensee Product and to each Member in each Member Territory in which the Licensee has distributed or licensed any Licensee Product.

5.8 The Licensee may not grant any new sub-license under **clause 2.1.5** after either party has given notice under **clauses 5.2** or **5.4**.

5.9 The Licensors shall be entitled to publicize the termination of this License Agreement to such persons (including Members, other Affiliates of the Licensors and End Users) and in such manner as it sees fit.

5.10 **Clauses 5.6, 5.7, 5.8, 5.9, 5.11, 5.12, 7, 8 and 10 to 14** inclusive shall survive termination of this License Agreement.

5.11 The Licensee shall, by no later than thirty (30) days after termination of this License Agreement for any reason, submit a statement of account in accordance with **clause 7.3** in respect of all periods that have not previously been covered by a statement of account under that clause.

5.12 Any termination of this License Agreement, for any reason, is without prejudice to the accrued liabilities of each party as at the date of termination (including, without limitation, any liability of the Licensee to pay License Fees that has accrued as at the date of termination), or to the Licensee's obligation to pay License Fees arising from the statement of account submitted under **clause 5.11**.

## 6. NEW VERSIONS AND CHANGES TO LICENSE TERMS

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6.2 Within one-hundred and eighty (180) days after the Licensor has notified the Licensee of the release of a new version of the International Release, the Licensee must upgrade the version of the International Release in its own systems and in the Licensee Products to that new version (or alternatively, if a subsequent version of the International Release is or has been released during the 180-day period, to that subsequent version at the Licensee's option).

6.3 The Licensor may vary the terms of this License Agreement by giving written notice to the Licensee. Any such variation shall take effect not less than ninety (90) days after the notice is given, as specified in the notice. If the Licensee does not wish this License Agreement to continue subject to the variation, the Licensee may terminate this License Agreement in accordance with **clause 5.4**, and if the Licensee gives notice of such termination before the variation takes effect then the variation shall not apply as between the Licensor and the Licensee.

6.4 The College of American Pathologists, as originator of Intellectual Property Rights in the International Release, shall as a licensee have a specific [exception] to the Licensor's rights in **clause 6.3** in specific circumstances and for a specific fixed term period to be agreed with the Licensor, and the terms of such special [ exemption] shall be deemed part of such licensee's Affiliate License Terms. The Licensor will publish the terms of the special exemption with the Articles.

## 7. LICENSE FEES

7.1 The Licensee shall pay the License Fees to the Licensor in respect of the Licensee's activities in Non-Member Territories. The License Fees shall be payable annually in arrear.

7.2 All License Fees and other amounts payable to the Licensor under this License Agreement are exclusive of value added tax and any other tax of a similar nature, which shall be payable by the Licensee at the prevailing rate in addition to those amounts.

7.3 The Licensee shall, at least once in each calendar year, submit a statement of account to the Licensor in such manner and form as the Licensor may prescribe from time to time, setting out the Licensee's activities in Non-Member Territories since the end of the period covered by the previous statement of account submitted under this **clause 7.3** (or, in the case of the first statement of account under this **clause 7.3**, since the date on which this License Agreement became effective), and the Licensee's calculation of the License Fees and other amounts payable to the Licensor in respect of that period. Each such statement of account shall include, without limitation, a list of all license agreements in respect of Licensee Products that were in force during the period covered by the statement of account and, in relation to each such license agreement, the dates on which: (a) that license agreement was entered into or otherwise became effective; (b) the Licensee Product was first provided or made available to the licensee under that license agreement; and (c) the International Release (or any part of it) was first made available to the licensee under that license agreement.

7.4 The Licensee shall provide the Licensor with such information as the Licensor may reasonably request for the purpose of verifying any statement of account submitted to the Licensor under **clause 7.3**.

7.5 The Licensor shall, following receipt of a statement of account from the Licensee under **clause 7.3**, submit an invoice to the Licensee setting out the License Fees and other amounts payable by the Licensee in respect of the period to which the statement of account relates. The Licensee shall pay to the Licensor all amounts set



out on each invoice submitted under this **clause 7.5** within thirty (30) days of receipt of that invoice. The Licensee shall make payment under this **clause 7.5** by wire transfer or by such other means as the Licenser may make available to the Licensee from time to time.

7.6 Interest shall accrue on any outstanding License Fees and other amounts at the rate of the lesser of (a) 500 basis points above the European Inter-Bank Offer Rate (EURIBOR), calculated daily from the date on which payment was due and compounding at the end of each calendar month or (b) the maximum amount allowed under applicable law.

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8.8 The Licensee shall maintain a complete, accurate and up-to-date register of all sub-licenses granted by the Licensee under **clause 2.1.5**, and shall make that register available for inspection during normal business hours by the Licensor and its representatives upon the Licensor giving not less than fourteen (14) days' prior written notice. The register maintained by the Licensee under this **clause 8.8** shall at a minimum contain the following information in respect of each sub-license: the name and registered office of the sub-licensee; the Licensee Product subject to the sub-license; and the version of the International Release included in that Licensee Product. In the absence of circumstances giving the Licensor reasonable grounds to suspect a breach of this License Agreement, the Licensor may not give notice under this **clause 8.8** more frequently than once per year.

## 9. USE IN MEMBER TERRITORIES AND NON-MEMBER TERRITORIES

9.1 The Licensee may only exercise its rights under this License Agreement in a Member Territory in accordance with such conditions as the Member for that Member Territory may prescribe from time to time.

9.2 Conditions prescribed by a Member under **clause 9.1** may:

9.2.1 include, without limitation, a requirement that the Licensee notify the Member before exercising its rights under this License Agreement in that Member's territory and a requirement that the Licensee enter into a license agreement with the Member in respect of that Member's National Release; and

9.2.2 relate to the International Release, the Member's National Release or any part of either of them.

9.3 The Licensee shall notify the Licensor (and, if the Licensee's registered office or principal place of business is situated in a Member Territory, shall also notify the Member for that Member Territory) in writing before exercising its rights under this License Agreement in any Non-Member Territory in respect of which the Licensee has not previously given notice under this **clause 9.3**. The notice shall be in such form and manner as the Licensor may prescribe from time to time, and shall include such information about the Licensee's current and proposed activities in that Non-Member Territory as the Licensor may require (but the Licensor may require only the same kinds of information as it requires to be provided by new Affiliates proposing to use, license or deploy the International Release or Licensee Products in Non-Member Territories).

9.4 In any case where the Licensee gives notice to a Member in accordance with **clause 9.3**, the Licensee consents to that Member providing the content of that notice to the Licensor.

9.5 For purposes of this **clause 9**, the Licensee exercises its rights under this License Agreement in any Member Territory or Non-Member Territory if, without limitation, it:

9.5.1 performs any act permitted by this License Agreement in that Member Territory or Non-Member Territory (as the case may be);

9.5.2 deploys the International Release (or any part of it) or any Licensee Product in that Member Territory or Non-Member Territory (as the case may be); or

9.5.3 distributes or licenses a Licensee Product for use in, or to any person who is situated in, that Member Territory or Non-Member Territory (as the case may be).

## 10 AFFILIATE STATUS

10.1 During the term of this License Agreement the Licensee shall be an Affiliate.

10.2 As an Affiliate, the Licensee shall be entitled to participate in the Licensor's Vendor Liaison Forum, which is a forum in which the Licensee and other Affiliates may communicate with the Licensor and with each other. The Licensor may make Regulations from time to time governing the Licensee's participation in the Vendor Liaison Forum. New Regulations that the Licensor shall make from time to time governing participation in the Vendor Liaison Forum shall not remove the Licensee's right to participate in that forum.

## 11. REPRESENTATIONS AND WARRANTIES

11.1 To the extent permitted by law, the Licensor excludes all representations, warranties and conditions that would otherwise be implied by law in this License Agreement (including, without limitation, all implied warranties of quality or fitness for a particular purpose).

11.2 Without limiting **clause 11.1**, the Licensor does not represent or warrant that the International Release or any part of it will satisfy any of the Licensee's requirements, operate in combinations selected by the Licensee or be free from defects or errors.

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12.1 The Licensor shall not be liable to the Licensee or to any other person, whether in contract, tort (including negligence), misrepresentation, breach of statutory duty or otherwise, for any of the following arising under or in connection with this License Agreement (including, without limitation, in respect of the Licensee's use of or inability to use the International Release or any part of it):

12.1.1 indirect or consequential loss;

12.1.2 special or punitive damages;

12.1.3 loss of profits, loss of savings and loss of revenue;

12.1.4 loss of business, loss of reputation and loss of goodwill; and

12.1.5 loss of data.

12.2 Neither the Licensor nor any Member shall be liable to the Licensee or any other person for any failure by the Licensor or the Member (as the case may be) to maintain or distribute any Extension (or part thereof) or Derivative transferred to the Licensor or the Member (as the case may be) in accordance with **clauses 3.4 or 3.5**.

12.3 The liability of the Licensor arising in any year under or in connection with this License Agreement, whether in contract, tort (including negligence), misrepresentation, breach of statutory duty or otherwise, shall not in any event exceed the License Fees paid by the Licensee in respect of that year.

12.4 Nothing in this License Agreement excludes or limits the liability of either party for:

12.4.1 fraud (including fraudulent misrepresentation);

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12.4.4 any other liability that by law cannot validly be excluded or limited (but only to the extent that the liability cannot validly be excluded or limited).

### 13. ASSIGNMENT

13.1 The Licensee may not assign, novate or otherwise transfer any of its rights or obligations under this License Agreement to any person without the prior written consent of the Licensors, not to be unreasonably withheld.

13.2 The Licensors may transfer all of its rights and obligations under this License Agreement to any person to whom the Licensors transfer the Intellectual Property Rights in respect of which the licenses under this License Agreement are granted.

### 14. GENERAL PROVISIONS

14.1 This License Agreement contains the entire agreement between the parties relating to the subject matter of this License Agreement, supersedes all previous agreements between the Parties relating to that subject matter and sets out the entirety of the Licensee's rights in respect of the International Release.

14.2 Each party acknowledges that, in entering into this License Agreement, it has not relied on any representation, warranty, collateral contract or other assurance made by or on behalf of the other party before the date of this License Agreement.

14.3 Except as provided in **clause 6.3**, this License Agreement may not be varied except in writing signed by both parties and expressed to vary this License Agreement.

14.4 Nothing in this License Agreement shall give either party the ability to act or incur obligations or liability on behalf of the other party or constitutes a joint venture, agency, partnership or employment relationship between the parties.

14.5 If any term of this License Agreement is or becomes illegal, invalid or unenforceable in any jurisdiction, that shall not affect the legality, validity or enforceability in that jurisdiction of any other term of this License Agreement, or the legality, validity or enforceability in any other jurisdiction of that or any other term of this License Agreement.

14.6 The Licensee agrees that the Licensors may appoint third parties to process personal data provided by the Licensee to the Licensors under or in connection with this License Agreement (including without limitation payment details provided in connection with the payment of License Fees). In connection with any such appointment, personal data provided by the Licensee may be transferred to, and processed in, a country outside the European Economic Area (EEA). The laws governing the processing of personal data may be less stringent in such a country than in the member countries of the EEA.

### 15. GOVERNING LAW AND JURISDICTION

15.1 This License Agreement shall be governed by, and construed in accordance with, English law.

15.2 The English courts shall have exclusive jurisdiction to settle any dispute arising out of or in connection with this License Agreement (including a dispute regarding its existence, validity or termination).

15.3 **Clause 15.2** is for the benefit of the Licensors only. As a result, the Licensors shall not be prevented from taking proceedings relating to any dispute in any other courts with jurisdiction. To the extent permitted by law,

the Licensor may take concurrent proceedings in any number of jurisdictions.

## Appendix A

### Defined Terms

In this License Agreement, the following defined terms have the following meanings:

Term	Meaning
<b>Affiliate</b>	an affiliate of the Licensor in accordance with the Licensor's Articles of Association;
<b>Cross-Map</b>	a work consisting of (i) SNOMED CT Content and (ii) content of another nomenclature, classification or knowledge structure, together with a set of relationships between (i) and (ii);
<b>Data Analysis System</b>	a computer system that is used to analyze records or other data that is encoded using SNOMED CT, but not if that system is also a Data Creation System;
<b>Data Creation System</b>	a computer system that is used to create records or other data that is encoded using SNOMED CT;
<b>Derivative</b>	a work consisting of (a) SNOMED CT Content, from the SNOMED CT CORE or an Extension; together with (b) either (i) additional properties and/or information about such SNOMED CT content; and/or (ii) any set of relationships between that SNOMED CT Content and content of other nomenclature, classification or knowledge structure, and includes a Cross-Map and a Sub-Set;
<b>End User</b>	a third party user of a Licensee Product;
<b>Extension</b>	a work consisting of SNOMED CT Content alone that is supplementary to the SNOMED CT Core and that depends on the SNOMED CT Core;
<b>Hospital</b>	a health care body or organisation providing secondary and/or tertiary care;
<b>Intellectual Property Rights</b>	patents, trade marks, service marks, copyright(including rights in computer software), moral rights, database rights, rights in designs, trade secrets, know-how and other intellectual property rights, in each case whether registered or unregistered and including applications for registration, and all rights or forms of protection having equivalent or similar effect in any jurisdiction;
<b>International Release</b>	the release produced and distributed by or on behalf of the Licensor, consisting of the SNOMED CT Core, the Specifications and the Licensor's Derivatives and other documents and software;
<b>License Fees</b>	the license fees set out in Appendix B (License Fees in Non-Member Territories);
<b>Licensee Products</b>	products distributed or licensed by the Licensee that(1) include or interoperate with the International Release (or any part of it) and/or any Extensions or Derivatives created by the Licensee under this License Agreement, or (2) read or write records or other data that is encoded using SNOMED CT;

<b>Member</b>	a member of the Licensor;
<b>Member Territory</b>	a territory that is represented by a Member (as published by the Licensor from time to time);
<b>Namespace Identifier</b>	a code or that part of a code that identifies the organization responsible for creating and maintaining a Standards-Based Extension or a Standards-Based Derivative and is used as an element of SNOMED CT Identifiers;
<b>National Release</b>	in respect of each Member, the release produced and distributed by the Member, consisting of the International Release, the Member's Extensions, the Member's Derivatives and other documents and software;
<b>Non-Member Territory</b>	a territory that is not a Member Territory;
<b>Practice</b>	(a) a single department of a Hospital (subject to paragraph 2.2 of Appendix B); or (b) any health care body or organisation that provides principally primary care, including without limitation a pharmacy, an optician's facility, a physiotherapy centre, a general medical practice or a family medical practice;
<b>Qualifying Research Project</b>	a discrete research project that meets all of the following criteria:  (a) it is supported by a formal proposal that has been peer reviewed;  (b) it has been ethically approved in accordance with the prevailing legislation, regulations and guidelines in effect in the relevant territory;  (c) it is conducted within a definite timeframe;  (d) the results of the research are offered for publication in peer-reviewed public journals and are provided to the Licensor free of charge prior to publication;
<b>Regulations</b>	regulations made by the Licensor;
<b>Relationship</b>	a relationship, of a kind defined by the Licensor in Specifications, between concepts (which may be, without limitation, a hierarchical or an associative relationship) or between a concept and a description;
<b>SNOMED CT</b>	the concept-based work of clinical nomenclature and classification with multiple hierarchies and semantic definitions known as SNOMED Clinical Terms (SNOMED CT);
<b>SNOMED CT Content</b>	terminological content, consisting of concepts, descriptions and Relationships, each of which is identified using a SNOMED CT Identifier;
<b>SNOMED CT Core</b>	the SNOMED CT Content that is controlled, maintained and distributed by the Licensor from time to time;
<b>SNOMED CT Identifier</b>	a code, of a kind defined by the Licensor in Specifications, for identifying concepts, descriptions and Relationships;
	specifications promulgated by the Licensor for products and processing relating to SNOMED

<b>Specification</b>	CT, including specifications of the internal logic of SNOMED CT, editorial policies, guidelines and characteristics;
<b>Sponsored Territory</b>	a Non-Member Territory that has been recognized and designated by the Licensor as a sponsored territory (as published on the Licensor's web site);
<b>Standard</b>	a Specification that is formally adopted by the Licensor;
<b>Standards-Based</b>	in respect of an Extension or a Derivative, an Extension or Derivative the creation of which is the subject of one or more Standards; and
<b>Sub-Set</b>	a sub-set of SNOMED CT Content that is grouped together for one or more purposes.

## Appendix B

### License Fees in Non-Member Territories

#### 1. Introduction

1.1 This Appendix B sets out the license fees payable by the Licensee in respect of its activities in Non-Member Territories.

1.2 The license fees set out in this Appendix B do not apply in respect of the Licensee's activities in any Non-Member Territory if that Non-Member Territory is a Sponsored Territory or was a Sponsored Territory at the time when the Licensee's activities in that Non-Member Territory were carried out.

1.3 The Licensor may, in its sole discretion, waive the Licensee's obligation to pay any or all of the license fees set out in this Appendix B if the Licensor considers that the Licensee's activities in any Non-Member Territory are in support of charitable or humanitarian causes in that Non-Member Territory. Any waiver by the Licensor under this paragraph 1.3 may be revoked by the Licensor at any time, shall be without prejudice to any of the Licensor's other rights and remedies under this License Agreement and shall not relieve the Licensee of any of its other obligations under this License Agreement.

1.4 Beginning in 2015, license fees payable by the Licensee in respect of its activities in Non-Member Territories for each financial year shall be adjusted by the same percentage as the General Assembly of the Licensor agrees to adjust the Aggregate Annual Fee (as defined in the Licensor's Articles of Association) relative to the Aggregate Annual Fee in the previous year.

1.5 The license fees in respect of Hospitals that are set out in this Appendix B apply only to Hospitals that are located on a single contiguous physical site. Any Hospital that is located on multiple physical sites shall be treated as falling within paragraph 4 of this Appendix B (and not within paragraphs 2 or 3).

1.6 For purposes of this Appendix B, if a Practice is located on multiple physical sites then each such site is treated as a separate Practice.

1.7 Notwithstanding anything else in this Appendix B, the deployment, distribution or licensing of any software that operates on a mobile device of any kind (including without limitation a mobile phone or tablet device), or any software or service that is accessed via the internet and enables users to extract or download any substantial portion of SNOMED CT, shall be treated as falling within paragraph 4 of this Appendix B (and not within paragraphs 2 or 3).

1.8 The Licensee's obligation to pay license fees in respect of any deployment of the International Release or any Licensee Product is not dependent on that deployment of the International Release or Licensee Product being used in a live or production environment.

1.9 In any case where the Licensee is exempt from the requirement to pay license fees by reason of a Licensee Product, a Data Analysis System or a Data Creation System being used exclusively in connection with a Qualifying Research Project, the Licensee shall report to the Licensor on the progress of that Qualifying Research Project in such manner as the Licensor may reasonably require. The Licensor may revoke the Licensee's exemption for Qualifying Research Projects provided in this Appendix B if the Licensee fails to comply with this paragraph 1.9.

## 2. Data Creation Systems

2.1 The Licensee shall pay the following fees in respect of each Hospital or Practice in a Non-Member Territory in or to which the Licensee:

(a) deploys the International Release (or any part of it) or any Licensee Product that contains the International Release (or any part of it) in a Data Creation System, unless that Data Creation System is used exclusively in connection with a Qualifying Research Project; or

(b) deploys, distributes or licenses a Licensee Product that is or includes a Data Creation System, unless that Licensee Product is used exclusively in connection with a Qualifying Research Project.

Fee Band	Fee
Hospital in Band A Territory	US\$ 1,954 per annum baseline fee adjusted as per paragraph 1.4
Hospital in Band B Territory	US\$ 1,303 per annum baseline fee adjusted as per paragraph 1.4
Hospital in Band C Territory	US\$ 652 per annum baseline fee adjusted as per paragraph 1.4
Practice in Band A, B or C Territory	US\$ 652 per annum baseline fee adjusted as per paragraph 1.4
Hospital or Practice in Low Income Band	US \$0 per annum baseline fee, adjusted as per paragraph 1.4
Hospital or Practice in other territory	As per paragraph 5.2.

2.2 The total fees payable by the Licensee in respect of a number of Practices that are departments of a single Hospital shall not exceed the fee applicable to the Hospital itself. For purposes of this Appendix B, a Practice is treated as a department of a Hospital only if: (a) it is located on the premises of that Hospital; and (b) it is funded solely by that Hospital. In any case where either or both of the conditions in the preceding sentence are not met in respect of any Practice, fees shall be payable in respect of that Practice in addition to any fees that are payable in respect of any Hospital.

## 3. Data Analysis Systems

3.1 The Licensee shall pay the fees set out in paragraph 3.4 if the Licensee:

(a) deploys the International Release (or any part of it) or any Licensee Product that contains the International Release (or any part of it) in a Data Analysis System in a Non-Member Territory, unless that Data Analysis System is used exclusively in connection with a Qualifying Research Project; or

(b) deploys, distributes or licenses a Licensee Product that is or includes a Data Analysis System in a Non-



Member Territory, unless that Licensee Product is used exclusively in connection with a Qualifying Research Project.

3.2 The fees set out in paragraph 3.4 apply in respect of each deployment, distribution or license of the International Release (or any part of it), a Licensee Product or a Data Analysis System, and vary according to the Non-Member Territory in which the deployment, distribution or licensing takes place.

3.3 If any Data Analysis System to which the fees in paragraph 3.4 apply consists of more than one database, the fees applicable to that Data Analysis System shall be multiplied by the number of databases in that Data Analysis System.

3.4 The fees under this paragraph 3 are as follows:

Fee Band	Fee
Band A Territory	US\$ 1,954 per annum baseline fee adjusted as per paragraph 1.4
Band B Territory	US\$ 1,303 per annum baseline fee adjusted as per paragraph 1.4
Band C Territory	US\$ 652 per annum baseline fee adjusted as per paragraph 1.4
Low Income Band	US \$0 per annum baseline fee, adjusted as per paragraph 1.4
Other territory	As per paragraph 5.2.

#### 4. Other Activities

4.1 The Licensee shall notify the Licensors in writing before deploying the International Release (or any part of it) or deploying, distributing or licensing any Licensee Product (in each case, other than exclusively in connection with Qualifying Research Projects) in, for use in, or to any person situated in, any Non-Member Territory in a manner that does not fall within paragraphs 2 to 3 of this Appendix B, explaining the Licensee's proposed activities.

4.2 Upon receiving notice from the Licensee under this paragraph 4, the Licensors may request, and the Licensee shall provide, such additional information in relation to the Licensee's proposed activities as the Licensors considers reasonably necessary to determine an appropriate license and reasonable fee in respect of the Licensee's proposed activities.

4.3 The Licensee shall be liable to pay such license fees as the Licensors may determine in accordance with this paragraph 4.

#### 5. Non-Member Territory Bandings

5.1 The allocation of a Non-Member Territory into Band A, Band B, Band C, or Low Income Band shall be as determined by the Licensors (based on the Non-Member Territory's relative Gross National Income (GNI) or other measure adopted by the Licensors) and published by the Licensors on its web site.

5.2 The Licensee shall notify the Licensors in writing before carrying out any activity of a kind described in paragraphs 2 or 3 of this Appendix B in a Non-Member Territory that has not been allocated by the Licensors under paragraph 5.1. Upon receiving notice from the Licensee under this paragraph 5.2, the Licensors shall allocate the Non-Member Territory as described in paragraph 5.1.

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