

E-Path A.I. Engine Knowledge Base Enhancements

Version 1.0.0.29– April 1, 2018

The major enhancements in the E-Path Knowledge Base from versions 1.0.0.28 through 1.0.0.29 are as follows:

1. Addition/modification of ICD-0-3 morphology and topography terms.

Morphology

New codes:

- M-80233 Midline carcinoma of children and young adults with NUT rearrangement
- M-80233 NUT carcinoma
- M-80233 NUT midline carcinoma
- M-80543 Condylomatous carcinoma
- M-80543 Warty carcinoma (C60.0-C60.2, C60.9)
- M-80853 Squamous cell carcinoma, HPV-positive
- M-80863 Squamous cell carcinoma, HPV-negative
- M-81581 ACTH-producing tumor
- M-81581 Endocrine tumor, functioning, NOS
- M-81633 Adenocarcinoma, pancreatobiliary-type
- M-81633 Pancreatobiliary-type carcinoma
- M-82563 Minimally invasive adenocarcinoma, non-mucinous
- M-82573 Minimally invasive adenocarcinoma, mucinous
- M-82653 Micropapillary carcinoma, NOS
- M-82653 Micropapillary adenocarcinoma
- M-83393 Follicular thyroid carcinoma (FTC), encapsulated angoinvasive
- M-84743 Seromucinous carcinoma
- M-84801 Low grade appendiceal mucinous neoplasm
- M-85092 Solid papillary carcinoma in situ
- M-85093 Solid papillary carcinoma with invasion
- M-85192 Pleomorphic lobular carcinoma in situ
- M-85523 Mixed acinar ductal carcinoma
- M-85941 Mixed germ cell sex cord-stromal tumor, unclassified
- M-87143 Malignant perivascular epithelial cell tumor
- M-87143 PEComa, malignant
- M-87143 Perivascular epithelioid cell tumor, malignant
- M-88151 Solitary fibrous tumor/hemangiopericytoma Grade 2 (CNS)
- M-89751 Calcifying nested epithelial stromal tumor
- M-90453 Biphenotypic sinonasal sarcoma
- M-90863 Germ cell tumors with associated hematological malignancy
- M-91373 Intimal sarcoma
- M-91373 Pulmonary artery intimal sarcoma
- M-93853 Diffuse midline glioma, H3 K27M-mutant

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- M-93953 Papillary tumor of pineal region
- M-93963 Ependymoma, RELA fusion-positive
- M-94253 Pilomyxoid astrocytoma
- M-94311 Angiocentric glioma
- M-94321 Pituicytoma
- M-94453 Glioblastoma, IDH-mutant
- M-94753 Medulloblastoma, WNT-activated
- M-94763 Medulloblastoma, SHH-activated and TP53 mutant
- M-94773 Medulloblastoma, group 3
- M-94773 Medulloblastoma, group 4
- M-94773 Medulloblastoma, non-WNT/non-SHH
- M-94783 Embryonal tumor with multilayered rosettes C19MC-altered
- M-94783 Embryonal tumor with multilayered rosettes, NOS
- M-95091 Diffuse leptomeningeal glioneuronal tumor
- M-95091 Papillary glioneuronal tumor
- M-95091 Rosette-forming glioneuronal tumor
- M-95423 Epithelioid malignant peripheral nerve sheath tumor
- M-97411 Indolent systemic mastocytosis

Add concepts:

- M-80103 Urachal carcinoma
- M-80133 Combined large cell neuroendocrine carcinoma
- M-80413 High-grade neuroendocrine carcinoma
- M-80413 Neuroendocrine carcinoma, poorly differentiated
- M-80413 Small cell carcinoma pulmonary type
- M-80443 Small cell carcinoma, hypercalcemic type
- M-81203 Lipid-rich urothelial carcinoma
- M-81203 Microcystic urothelial carcinoma
- M-81203 Nested urothelial carcinoma
- M-81203 Squamotransitional cell carcinoma
- M-81203 Urothelial carcinoma with divergent differentiation
- M-81203 Urothelial carcinoma with squamous differentiation
- M-81203 Urothelial carcinoma with trophoblastic differentiation
- M-81203 Clear cell (glycogen-rich) urothelial carcinoma
- M-81403 Minimally invasive adenocarcinoma, NOS
- M-81403 Endocervical adenocarcinoma usual type
- M-81443 Enteric adenocarcinoma
- M-81443 Intestinal-type adenocarcinoma
- M-81443 Mucinous carcinoma, intestinal type
- M-82003 Thymic carcinoma with adenoid cystic carcinoma-like features
- M-82133 Serrated adenocarcinoma
- M-82463 Neuroendocrine tumor, well differentiated
- M-82502 Adenocarcinoma in situ, non-mucinous
- M-82503 Lepidic adenocarcinoma

- M-82503 Lepidic predominant adenocarcinoma
- M-82543 Mixed invasive mucinous and non-mucinous adenocarcinoma
- M-82633 Endometrioid adenocarcinoma, villoglandular
- M-82633 Villoglandular carcinoma
- M-83113 Hereditary leiomyomatosis & RCC- associated renal cell carcinoma
- M-83113 MiT family translocation renal cell carcinoma
- M-83123 Renal cell carcinoma, unclassified
- M-83163 Acquired cystic disease-associated renal cell carcinoma
- M-83163 Tubulocystic renal cell carcinoma
- M-83432 Non-invasive EFVPTC
- M-83432 Non-invasive encapsulated follicular variant of papillary thyroid carcinoma
- M-83432 Non-invasive follicular thyroid neoplasm with papillary-like nuclear features
- M-83432 Non-invasive FTP
- M-83433 Encapsulated follicular variant of papillary thyroid carcinoma, NOS
- M-83433 Invasive encapsulated follicular variant of papillary thyroid carcinoma
- M-84412 Serous endometrial intraepithelial carcinoma
- M-84412 Serous tubal intraepithelial carcinoma
- M-84532 Intraductal papillary mucinous neoplasm with high-grade dysplasia
- M-84533 Intraductal papillary mucinous neoplasm (IPMN) with an associated invasive carcinoma
- M-84602 Non-invasive low grade serous carcinoma
- M-84602 Serous borderline tumor-micropapillary variant
- M-84603 Low-grade serous carcinoma
- M-84613 High-grade serous carcinoma
- M-84703 Mucinous cystic tumor with associated invasive carcinoma
- M-84803 Mucinous tubular and spindle cell carcinoma
- M-84823 Mucinous carcinoma, gastric type
- M-85002 Low grade cribriform cystadenocarcinoma
- M-85002 Mammary carcinoma, in situ
- M-85002 Non-invasive mammary carcinoma
- M-85003 Salivary duct carcinoma
- M-85003 Invasive mammary carcinoma
- M-85032 Intraductal papilloma with ductal carcinoma in situ
- M-85032 Intraductal tubulopapillary neoplasm
- M-85033 Intracystic papillary neoplasm with associated invasive carcinoma
- M-85103 Renal medullary carcinoma
- M-85202 Intraductal papilloma with lobular carcinoma in situ
- M-85203 Invasive lobular carcinoma, alveolar type
- M-85203 Invasive lobular carcinoma, solid type
- M-85203 Invasive lobular carcinoma, tubulolobular variant
- M-85203 Pleomorphic lobular carcinoma
- M-85203 Invasive lobular carcinoma
- M-85203 Tubulolobular carcinoma
- M-85503 Acinar cell carcinoma
- M-85703 Endometrioid carcinoma with squamous differentiation
- M-85703 Low grade adenosquamous carcinoma

- M-85713 Carcinoma with chondroid differentiation
- M-85713 Carcinoma with osseous differentiation
- M-85713 Metaplastic carcinoma with chondroid differentiation
- M-85713 Metaplastic carcinoma with osseous differentiation
- M-85723 Acinar adenocarcinoma, sarcomatoid
- M-85723 Fibromatosis-like metaplastic carcinoma
- M-85743 Adenocarcinoma admixed with neuroendocrine carcinoma
- M-85753 Carcinoma with other types mesenchymal differentiation
- M-85753 Metaplastic carcinoma with other types mesenchymal differentiation
- M-85753 Metaplastic carcinoma of no special type
- M-87202 MIS
- M-87202 MMIS
- M-87203 Meningeal melanoma
- M-88013 Undifferentiated spindle cell sarcoma
- M-88023 Undifferentiated pleomorphic sarcoma
- M-88033 Undifferentiated round cell sarcoma
- M-88043 Undifferentiated epithelioid sarcoma
- M-88053 Undifferentiated uterine sarcoma
- M-88111 Myxoinflammatory fibroblastic sarcoma
- M-88150 Solitary fibrous tumor/hemangiopericytoma Grade 1
- M-88153 Solitary fibrous tumor/hemangiopericytoma Grade 3
- M-88253 Low-grade myofibroblastic sarcoma
- M-88253 Myofibroblastic sarcoma
- M-88303 Malignant fibrous histiocytoma (MFH) of bone
- M-88303 Undifferentiated high-grade pleomorphic sarcoma
- M-88323 Fibrosarcomatous dermatofibrosarcoma protuberans
- M-88403 Low-grade fibromyxoid sarcoma
- M-88403 Sclerosing epithelioid fibrosarcoma
- M-88423 Ossifying fibromyxoid tumor, malignant
- M-88423 Pulmonary myxoid sarcoma with EWSR1-CREB1 translocation
- M-89123 Sclerosing rhabdomyosarcoma
- M-89333 Mullerian adenosarcoma
- M-89833 Adenomyoepithelioma with carcinoma
- M-89903 Phosphaturic mesenchymal tumor, malignant
- M-90203 Periductal stromal tumor, low grade
- M-91103 Adenocarcinoma of rete ovarii
- M-91333 Epithelioid hemangioendothelioma
- M-91873 Low-grade central osteosarcoma
- M-91873 Low-grade intramedullary osteosarcoma
- M-92203 Chondrosarcoma grade 2/3
- M-93023 Ghost cell odontogenic carcinoma
- M-93413 Clear cell odontogenic carcinoma
- M-93823 Anaplastic oligoastrocytoma
- M-93823 Oligoastrocytoma, NOS
- M-94003 Diffuse astrocytoma, IDH-mutant

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- M-94003 Diffuse astrocytoma, IDH-wildtype
- M-94013 Anaplastic astrocytoma, IDH-mutant
- M-94013 Anaplastic astrocytoma, IDH-wildtype
- M-94243 Anaplastic pleomorphic xanthroastrocytoma
- M-94403 Epithelioid glioblastoma
- M-94403 Glioblastoma, IDH wildtype
- M-94503 Oligodendroglioma, IDH-mutant and 1p/19q-codeleted
- M-94513 Anaplastic oligodendroglioma, IDH-mutant and 1p/19q codeleted
- M-94703 Medulloblastoma, classic
- M-94713 Medulloblastoma, SHH-activated and TP53-wildtype
- M-95083 CNS Embryonal tumor with rhabdoid features
- M-95083 Embryonal tumor with rhabdoid features
- M-95601 Melanotic schwannoma

Disable concepts:

- C52.9 colposcopy
Colposcopy is a procedure that examines multiple sites such as cervix, vagina as well as uterus.
- C57.4 Adnexa
Adnexa by itself could refer to any appendages, not just uterine, hence disabled.

Topography:

Add concepts:

- C02.9 Oral tongue
- C44.4 Skin vertex
- C44.4 Scalp vertex
- C77.3 Deltopectoral lymph node

AIM concepts:

Add concepts:

- AIM005.7 High Grade
- Aim400.5 Tumor Marker p16
- AIM400.6 Tumor Marker Ki67
- The above custom codes were added for Louisiana Tumor Registry CDC Audit

2. Additional of synonyms and spelling variants to the ICD-O-3 Morphology and Topography library.

3. Improvements to text processing, context modification and negation detection to improve report selection sensitivity and specificity.