Histopathology IMPC_HIS_003

Purpose

To perform histopathological examination and annotation of the IMPC's standard list of organs (see IMPReSS Gross Pathology & Tissue Collection) on stained tissue sections oriented on glass slides (see IMPReSS Tissue Embedding & Block Banking).

Experimental Design

- **Minimum number of animals :** 2M + 2F
- **Age at test:** Week 17

Notes

Significance Score

Not significant
. Interpreted by the histopathologist to be a finding attributable to background strain (e.g. low-incidence hydrocephalus, microphthalmia) or incidental to mutant phenotype (e.g. hair-induced glossitis, focal hyperplasia, mild mononuclear cell infiltrate).

OR

Significant
. Interpreted by the histopathologist as a finding not attributable to background strain and not incidental to mutant phenotype.

Severity Score

Score	Term	Definition
0	Normal	No lesion(s) or abnormalities detectable considering the age and sex of the animal
1	Mild	Abnormality visible, involving single or multiple tissue types in a minimal proportion of an organ, likely to have no functional consequence

2	Moderate	Abnormality visible, involving multiple tissue types in a minority proportion of an organ, likely to have no clinical consequence (subclinical)
3	Marked	Abnormality clearly visible, involving multiple tissue types in a majority proportion of an organ, likely to have minor clinical manifestation(s)
4	Severe	Abnormality clearly visible, involving multiple tissue types in almost all visible area of an organ, likely to have major clinical manifestation(s)

Parameters and Metadata

Adrenal gland - Descriptor PATO IMPC_HIS_107_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Adrenal gland - MA term IMPC_HIS_350_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: adrenal gland, adrenal gland capsule, adrenal gland cortex, adrenal gland cortex zone, adrenal gland zona fasciculata, adrenal gland zona reticularis, adrenal gland zona glomerulosa, adrenal gland brown degeneration zone, adrenal gland X zone, adrenal gland medulla, left adrenal gland, right adrenal gland,

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Adrenal gland - MPATH pathological entity term IMPC_HIS_103_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: fibroglandular hyperplasia, hyperplastic polyp, polyp, myoepithelial hyperplasia, microglandular hyperplasia, mesothelial hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, congestion, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma, osseous metaplasia, cartilaginous metaplasia, glandular metaplasia, lipomatous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, steatosis, abscess, adenoacanthoma, fibroadenoma, adenoma, angiofibroma, hemangioma, papillary adenoma, papillary adenocarcinoma, papillary cystadenocarcinoma, papilloma, neuroendocrine tumor, pheochromocytoma, neuroblastoma, hamartoma, teratoma, liposarcoma, lipoma, fibroma, adenomatous polyp, symmetry defect, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, curvature defect, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, septation defect, persistent embryonic structure, supernumerary structure, varices, hematoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, metastatic tumor, situs inversus, cytoskeletal defect, plasma membrane defect,

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Adrenal gland - MPATH pathological process term IMPC_HIS_105_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, polycystic disease, histiocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, peritonitis, foreign body granulomatous peritonitis, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Bone - Descriptor PATO IMPC_HIS_346_001 | v1.1

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Bone - MA term IMPC_HIS_351_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: cranium, tooth, sternum, pectoral girdle bone, chest bone, thoracic segment bone, trunk bone, bone, femur, hindlimb long bone, limb long bone, limb bone, long bone, hip bone, hindlimb bone, upper leg bone, leg bone, tibia, lower leg bone, bone marrow, bone tissue, compact bone, bone marrow cavity, lamellar bone, trabecular bone, intramembranous bone, endochondral bone, hypertrophic cartilage zone, long bone epiphyseal plate hypertrophic zone, periosteum, head or neck bone, neck bone, cervical vertebra, cervical vertebra 3, cervical vertebra 2, cervical vertebra 2 odontoid process, cervical vertebra 5, cervical vertebra 4, cervical vertebra 7, cervical vertebra 6, cervical vertebra 1, cervical vertebra 1 arcus anterior, cervical vertebra 1 ventral tubercle, head bone, orbit, chondrocranium, chondrocranium bone, zygomatic arch, temporal bone zygomatic process, zygomatic bone temporal process, zygomatic bone, presphenoid bone, sphenoid bone, basisphenoid bone, alisphenoid bone, sphenoid bone pterygoid process, pterygoid bone, orbitosphenoid, supraoccipital bone, squamosal bone, temporal bone, temporal bone petrous part, oval window, round window, bony labyrinth, osseus labyrinth vestibule, vestibular aqueduct, osseus semicircular canal, crus commune, anterior semicircular canal, posterior semicircular canal, lateral semicircular canal, osseus cochlea, osseus spiral lamina, osseus cochlear canal, modiolus, interparietal bone, frontal bone, parietal bone, occipital bone, basioccipital bone, exoccipital bone, cranial suture, frontonasal suture, sagittal suture, lambdoid suture, frontal suture, coronal suture, fontanel, anterior fontanel, viscerocranium, jaw, lower jaw, lower jaw tooth, lower jaw incisor, lower jaw molar, mandible, mandible ramus, mandible temporal crest, mandible condylar process, mandible head, mandible neck, mandible coronoid process, symphysis menti, mandible squamous part, mandible petrous part, mandible angular process, upper jaw, upper jaw tooth, upper jaw incisor, upper jaw molar, maxilla, maxilla alveolar process, tooth cavity, dental pulp, incisor dental pulp, molar dental pulp, tooth substance, cementum, enamel, dentin, tooth mesenchyme, dental papilla, incisor dental papilla, molar dental papilla, dental follicle, molar mesenchyme, incisor mesenchyme, tooth epithelium, tooth enamel organ, molar enamel organ, incisor enamel organ, dental lamina, molar dental lamina, incisor dental lamina, molar epithelium, incisor epithelium, molar, incisor, jaw epithelium, jaw bone, alveolar process, viscerocranium bone, nasal bone, premaxilla, vomer bone, palatine bone, ethmoid bone, cribriform plate, perpendicular plate, hyoid bone, hyoid bone lesser horn, hyoid bone greater horn, hyoid bone body, lacrimal bone, facial bone, basicranium, hyoid apparatus, tail bone, caudal vertebra, coccygeal vertebra, forelimb bone, shoulder bone, humerus, humerus diaphysis, deltoid tuberosity, scapula, scapula spine,

acromion, clavicle, hand bone, hand digit bone, hand phalanx, hand digit 5 phalanx,
hand digit 4 phalanx, hand proximal phalanx, hand middle phalanx, hand digit 3 phalanx,
hand digit 2 phalanx, hand digit 1 phalanx, hand distal phalanx,
proximal sesamoid bone of hand, metacarpal bone, metacarpal bone digit 5,
metacarpal bone digit 4, metacarpal bone digit 1, metacarpal bone digit 3,
metacarpal bone digit 2, carpal bone, distal carpal bone, trapezium, capitate, trapezoid,
hamate, proximal carpal bone, scapholunate, lunate, scaphoid, triquetral, pisiform,
falciform carpal bone, central carpal bone, arm bone, upper arm bone, lower arm bone,
ulnar sesamoid bone, radius, ulna, foot bone, foot digit bone, foot phalanx,
foot digit 2 phalanx, foot digit 1 phalanx, foot digit 4 phalanx, foot digit 3 phalanx,
foot middle phalanx, foot digit 5 phalanx, foot proximal phalanx, foot distal phalanx,
proximal sesamoid bone of foot, metatarsal bone, metatarsal bone digit 3,
metatarsal bone digit 2, metatarsal bone digit 5, metatarsal bone digit 4,
metatarsal bone digit 1, tarsal bone, talus, medial tibial tarsal bone, intermediate cuneiform,
medial cuneiform, cuboid, lateral cuneiform, calcaneum, navicular, trochanter,
greater trochanter, lesser trochanter, femur diaphysis, femur epiphysis, femur metaphysis,
femur head, sesamoid bone of gastrocnemius, fibula, tibia diaphysis, tibia epiphysis,
tibia metaphysis, knee bone, patella, ischium, ilium, iliac crest, pubis,
metacarpal/metatarsal bone, phalanx, proximal phalanx, middle phalanx, distal phalanx,
other limb bone, sesamoid bone, carpal/tarsal bone, long bone metaphysis,
forelimb long bone, rib, rib dorsal segment, rib shaft, rib head, rib ventral segment,
rib tubercle, proximal rib, distal rib, costal arch, true rib, rib 12, rib 11, rib 13, rib 10, rib 9,
rib 8, rib 1, rib 3, rib 2, rib 5, rib 4, rib 7, rib 6, floating rib, false rib, xiphisternum, sternebra,
sternal manubrium, upper back bone, thoracic vertebra, thoracic vertebra 13,
thoracic vertebra 8, thoracic vertebra 7, thoracic vertebra 10, thoracic vertebra 9,
thoracic vertebra 12, thoracic vertebra 11, thoracic vertebra 4, thoracic vertebra 3,
thoracic vertebra 6, thoracic vertebra 5, thoracic vertebra 1, thoracic vertebra 2,
abdominal segment bone, pelvis bone, sacral vertebra, sacral vertebra 1, sacral vertebra 3,
sacral vertebra 2, sacral vertebra 4, pelvic girdle bone, acetabulum, lower back bone,
lumbar vertebra, lumbar vertebra 6, lumbar vertebra 3, lumbar vertebra 5, lumbar vertebra 4,
lumbar vertebra 2, lumbar vertebra 1, back bone, vertebral column, vertebra,
vertebra transverse process, vertebra spinous process, vertebral pedicle, vertebral body,
vertebra cranial articular process, vertebra caudal articular process, vertebra neural canal,
vertebra arch, vertebra lamina, presacral vertebra, long bone diaphysis,
long bone epiphyseal plate, long bone epiphyseal plate proliferative zone,
long bone epiphysis,

Bone - MPATH pathological entity term IMPC_HIS_342_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: inflammatory polyp, hemorrhage and non-specified extravasation, embolus, fatty infiltration, extramedullary hemopoiesis, infarct, thrombosis, osseous and chondromatous tumor, congestion, complex tumor, mineralisation, intracellular and extracellular accumulation, osseous metaplasia, cartilaginous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, myeloid hyperplasia, angiectasia, avulsion, steatosis, abscess, sarcoma, hamartoma, chondroblastoma, myelodysplastic disorder, chondroma, osteoblastoma, chondrosarcoma, osteofibroma, osteochondroma, osteosarcoma, osteoma, chordoma, fibroma, telangiectasia, choristoma, pseudocyst, synovial sarcoma, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, heterotopia, melanin deposition, uric acid deposition, demyelination, decalcification, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, lipid depletion, hypocalcification, osteoporosis, osteopenia, cytopenia with increased blasts, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell hyperplasia, sequestrum, recanalised thrombus, interstitial mineralization, fracture, metastatic tumor, cytoskeletal defect, plasma membrane defect,

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Bone - MPATH pathological process term IMPC_HIS_344_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, fibro-osseous lesion, dysplasia, osteopetrosis, atrophy, erosion, myelofibrosis, inflammation, neuritis, dystrophy, hypersensitivity disease, arthritis, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy,

metaplasia, osteoid deposition, hyperostosis, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, fat necrosis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, arthrosis, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, fusion process defect, growth arrest, aplasia, apoptosis, desmoplasia, chondroarthritis, histiocytosis, mastocytosis, osteomyelitis, arteritis, degenerative arthritis, arthropathy, lymphangitis, phlebitis, cartilagenous erosion, polyarteritis nodosa, compression, bone marrow granulopoiesis, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Bone marrow - Descriptor PATO IMPC_HIS_234_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Bone marrow - MA term IMPC_HIS_352_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: bone marrow,

Bone marrow - MPATH pathological entity term IMPC_HIS_230_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, extramedullary hemopoiesis, cystic hyperplasia, infarct, thrombosis, osseous and chondromatous tumor, congestion, complex tumor, mineralisation, intracellular and extracellular accumulation, osseous metaplasia, cartilaginous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, myeloid hyperplasia, angiectasia, steatosis, abscess, sarcoma, blood vessel tumor, hemangioma, hemangiosarcoma, hamartoma, chondroblastoma, erythroid leukaemia, megakaryocytic leukaemia, myeloid leukaemia, myelodysplastic disorder, teratoma, chondroma, osteoblastoma, chondrosarcoma, osteofibroma, osteochondroma, osteosarcoma, osteoma, lipomatous tumor, liposarcoma, lipoma, chordoma, fibroma, fibrous histiocytoma, choristoma, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, heterotopia, melanin deposition, uric acid deposition, decalcification, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, lipid depletion, histiocytic sarcoma, cytopenia with increased blasts, persistent embryonic structure, supernumerary structure, varices, hematoma, spindle cell sarcoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, metastatic tumor, cytoskeletal defect, plasma membrane defect,

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Bone marrow - MPATH pathological process term IMPC_HIS_232_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, fibro-osseous lesion, dysplasia, osteopetrosis, atrophy, erosion, myelofibrosis, inflammation, neuritis, dystrophy, hypersensitivity disease, arthritis, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, hyperostosis, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, fat necrosis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, arthrosis, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, fusion process defect, growth arrest, aplasia, apoptosis, desmoplasia, chondroarthritis, histiocytosis, mastocytosis, osteomyelitis, arteritis, degenerative arthritis, arthropathy, lymphangitis, phlebitis, cartilagenous erosion, polyarteritis nodosa, compression, bone marrow granulopoiesis, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Brain - Descriptor PATO IMPC_HIS_005_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Brain - MA term IMPC_HIS_353_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: striatum, brainstem, brain, pituitary gland, thalamus, hypothalamus, cerebral cortex, cerebellum, hippocampus, main olfactory bulb, midbrain, olfactory lobe, hindbrain, 4th ventricle, 4th ventricle aperture, 4th ventricle median aperture, 4th ventricle lateral aperture, 4th ventricle choroid plexus, 4th ventricle choroid plexus epithelium, 4th ventricle choroid plexus stroma, 4th ventricle ependyma, metencephalon, cerebellum white matter, cerebellar peduncle, middle cerebellar peduncle, inferior cerebellar peduncle, superior cerebellar peduncle, cerebellar cortex, cerebellum lobe, cerebellum flocculonodular lobe, cerebellum posterior lobe, posterior cerebellum vermis, cerebellum vermis lobule VIII, cerebellum vermis lobule VII, cerebellum vermis lobule VI, cerebellum anterior lobe, anterior cerebellum vermis, cerebellum vermis lobule IV, cerebellum vermis lobule III, cerebellum vermis lobule V, cerebellum vermis lobule I, cerebellum vermis lobule II, cerebellum lobule, cerebellum hemisphere lobule, cerebellum vermis lobule, cerebellum vermis lobule X, cerebellum vermis lobule IX, cerebellar layer, cerebellum granule cell layer, cerebellum external granule cell layer, cerebellum internal granule cell layer, cerebellum molecular cell layer, cerebellum purkinje cell layer, cerebellum ventricular layer, cerebellum vermis, cerebellum hemisphere, flocculus, deep cerebellar nucleus, medial cerebellar nucleus, lateral cerebellar nucleus, pons, vestibular VIII nucleus, ventral tegmental nucleus, superior salivatory nucleus, superior olivary nucleus, periolivary nucleus, trigeminal V nucleus, trigeminal V sensory nucleus, trigeminal V spinal sensory nucleus, trigeminal V mesencephalic nucleus, trigeminal V principal sensory nucleus, trigeminal V motor nucleus, pontine nucleus, peduncular pontine nucleus, prepositus hypoglossal nucleus, pontine raphe nucleus, reticular tegmental nucleus, laterodorsal tegmental nucleus, nucleus of trapezoid body, locus coeruleus, parabrachial nucleus, abducens VI nucleus, cochlear VIII nucleus, barringtons nucleus, facial VII nucleus, dorsal tegmental nucleus, myelencephalon, medulla oblongata, solitary tract nucleus, raphe pallidus nucleus, spinal vestibular nucleus, nucleus ambiguus, medullary reticular nucleus, medial vestibular nucleus, inferior olive, inferior olive beta subnucleus, inferior olive inferior nucleus, inferior olive dorsal accessory nucleus, inferior olive medial nucleus, inferior olive medial accessory nucleus, inferior olive principal nucleus, lateral reticular nucleus, gracile nucleus, gigantocellular reticular nucleus, hypoglossal XII nucleus, area postrema, accessory XI nucleus, dorsal motor nucleus of vagus X nerve, cuneate nucleus, raphe magnus nucleus, raphe obscurus nucleus, retrotrapezoid nucleus, inferior olivary commissure, pre-botzinger complex, hindbrain meninges, hindbrain pia mater, hindbrain arachnoid mater, hindbrain dura mater, forebrain, telencephalon, olfactory cortex, olfactory tract, olfactory tubercle, islands of Calleja, piriform cortex, anterior olfactory nucleus,

olfactory bulb granule cell layer, olfactory bulb internal plexiform layer,
olfactory bulb mitral cell layer, olfactory bulb subependymal zone,
olfactory bulb glomerular layer, olfactory bulb external plexiform layer,
olfactory bulb olfactory nerve layer, taenia tecta, accessory olfactory bulb,
accessory olfactory bulb mitral cell layer, accessory olfactory bulb external plexiform layer,
accessory olfactory bulb internal plexiform layer, accessory olfactory bulb granule cell layer,
accessory olfactory bulb glomerular layer, lateral ventricle, lateral ventricle choroid plexus,
lateral ventricle choroid plexus epithelium, lateral ventricle choroid plexus stroma,
lateral ventricle ependyma, lateral ventricle subependymal layer, basal ganglia, amygdala,
posteromedial cortical amygdaloid nucleus, medial amygdaloid nucleus,
lateral amygdaloid nucleus, posterolateral cortical amygdaloid nucleus,
posterior amygdaloid nucleus, basolateral amygdaloid nucleus,
anterior cortical amydaloid nucleus, central amygdaloid nucleus,
basomedial amygdaloid nucleus, intercalated amygdaloid nucleus,
cortical amygdaloid nucleus, amygdaloppiriform transition area, amygdalahippocampal area,
anterior amygdaloid area, claustrum, pallidum, globus pallidus, lateral globus pallidus,
medial globus pallidus, ventral striatum, lentiform nucleus, accumbens nucleus,
dorsal striatum, caudate-putamen, caudate nucleus, putamen, hippocampal formation,
dentate gyrus, dentate gyrus layer, dentate gyrus polymorphic layer,
dentate gyrus granule cell layer, dentate gyrus pyramidal layer,
dentate gyrus molecular layer, dentate gyrus hilus, dentate gyrus subgranular zone,
hippocampus region, hippocampus CA1, CA1 pyramidal cell layer, hippocampus CA2,
hippocampus CA3, hippocampus CA4, hippocampus layer, hippocampus stratum lacunosum,
hippocampus stratum oriens, hippocampus stratum radiatum, hippocampus granule cell layer,
hippocampus molecular layer, hippocampus pyramidal layer, fimbria hippocampus,
subiculum, induseum griseum, fasciola cinereum, cerebral hemisphere, neocortex,
neocortex layer, cortical layer VI, cortical layer IV, cortical layer V, cortical layer I,
cortical layer II, cortical layer III, neocortex region, temporal cortex, auditory cortex,
temporal cortex association area, retrohippocampal cortex, presubiculum, entorhinal cortex,
medial entorhinal cortex, lateral entorhinal cortex, occipital cortex, primary visual cortex,
secondary visual cortex, parietal cortex, secondary somatosensory cortex,
primary motor cortex, primary somatosensory cortex, barrel cortex, anterior medial cortex,
cingulate cortex, frontal cortex, frontal association cortex, insular cortex, perirhinal cortex,
cerebral cortex subventricular zone, cerebral cortex ventricular zone,
septum of telencephalon, septal nucleus, subfornical organ, posterior septal complex,
septofimbrial nucleus, septohippocampal nucleus, lateral septal complex,
medial septal complex, medial septal nucleus, nucleus of diagonal band,
bed nucleus of stria terminalis, posterior division of bed nucleus of stria terminalis,
principal nucleus, transverse nucleus, anterior division of bed nucleus of stria terminalis,

fusiform nucleus, magnocellular nucleus, oval nucleus, septum pellucidum,
telencephalon meninges, telencephalon pia mater, telencephalon arachnoid matter,
telencephalon dura mater, cerebral grey matter, cerebral white matter,
intercerebral commissure, corpus callosum, anterior commissure, hippocampal commissure,
fornix, internal capsule, external capsule, diencephalon, 3rd ventricle,
3rd ventricle ependyma, 3rd ventricle choroid plexus, third ventricle choroid plexus epithelium,
third ventricle choroid plexus stroma, thalamic nucleus, dorsal thalamus,
intralaminar thalamic group, central medial nucleus, paracentral nucleus,
parafascicular nucleus, anterior thalamic group, lateral thalamic group, medial thalamic group,
midline thalamic group, nucleus reuniens, paraventricular thalamic nucleus,
ventral posterior thalamic group, ventral posterior lateral thalamic nucleus,
geniculate thalamic group, medial geniculate nucleus, lateral geniculate nucleus,
ventral lateral geniculate nucleus, dorsal lateral geniculate nucleus, ventral thalamus,
peripeduncular nucleus, reticular thalamic nucleus, subthalamic nucleus, zona incerta,
epithalamus, pineal gland, habenula, lateral habenular nucleus, medial habenular nucleus,
hypothalamic nucleus, hypothalamus periventricular zone, arcuate nucleus,
paraventricular hypothalamic nucleus, supraoptic nucleus, hypothalamus medial zone,
retrochiasmatic area, subparaventricular zone, suprachiasmatic nucleus, tuberal area,
ventromedial hypothalamic nucleus, dorsomedial hypothalamic nucleus,
medial preoptic region, medial preoptic nucleus, hypothalamus lateral zone,
perifornical nucleus, lateral hypothalamic area, lateral preoptic area, mammillary body,
lateral mammillary nucleus, medial mammillary nucleus, supramammillary nucleus,
tuberomammillary nucleus, adenohypophysis, pars anterior, pars intermedia, pars tuberalis,
remnant of Rathkes pouch, neurohypophysis, pars posterior, infundibulum, median eminence,
diencephalon meninges, diencephalon arachnoid mater, diencephalon dura mater,
diencephalon pia mater, forebrain meninges, forebrain arachnoid mater, forebrain dura mater,
forebrain pia mater, forebrain ventricular layer, brainstem white matter, crura cerebri,
posterior commissure, pretectal region, anterior tegmental nucleus, midbrain meninges,
midbrain pia mater, midbrain dura mater, midbrain arachnoid mater, tegmentum,
parabigeminal nucleus, oculomotor III nucleus, trochlear IV nucleus,
nucleus related to visual cortex, nucleus of darkschewitsch, edinger-westphal nucleus,
red nucleus, interpeduncular nucleus, dorsal raphe nucleus, substantia nigra,
substantia nigra pars lateralis, substantia nigra pars compacta,
substantia nigra pars reticulata, tectum, subcommissural organ, corpora quadrigemina,
inferior colliculus, superior colliculus, midbrain periaqueductal grey, cerebral aqueduct,
brainstem nucleus, raphe nucleus, brainstem periaqueductal grey,
brainstem reticular formation, brain vasculature, brain venous system,
circumventricular organ, secretory circumventricular organ, sensory circumventricular organ,
supraoptic crest, brain white matter, choroid plexus, choroid plexus stroma,

choroid plexus epithelium, brain subventricular zone, brain ventricle, brain ependyma, brain ventricular zone, brain grey matter, brain nucleus, periaqueductal grey, brain marginal zone, brain meninges, brain arachnoid matter, brain dura mater, brain pia mater,

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Brain - MPATH pathological entity term IMPC_HIS_001_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hyperplastic polyp, polyp, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, disseminated intravascular coagulation, congestion, edema, complex tumor, mineralisation, intracellular and extracellular accumulation, glioblastoma, glioma, central nervous system tumor, osseous metaplasia, cartilaginous metaplasia, lipomatous metaplasia, hydrocephalus, karyomegaly, hypertrophic tissue, concretion, epidermal inclusion cyst, cyst, serous exudate, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, dilatation, avulsion, involution, prolapse, steatosis, abscess, medulloblastoma, oligodendroglioma, meningioma, sub-ependymoma, sarcoma, craniopharyngioma, rhabdoid sarcoma, angiofibroma, blood vessel tumor, hemangioblastoma, hemangioma, hemangiosarcoma, choroid plexus carcinoma, astrocytoma, ependymoma, choroid plexus papilloma, papilloma, pituicytoma, pineocytoma, neuroendocrine tumor, hamartoma, teratoma, lipoma, fibroma, fibrous histiocytoma, symmetry defect, telangiectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, diverticulum, curvature defect, communication defect, heterotopia, fistula, hernia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, histiocytic sarcoma, aneurysm, perforation, obstruction and stenosis, persistent embryonic structure, supernumerary structure, varices, arteriovenous anastomosis, lymphangiectasis, hematoma, spindle cell sarcoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, metastatic tumor, stasis, ciliary motility defect, cytoskeletal defect, plasma membrane defect,

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Brain - MPATH pathological process term IMPC_HIS_003_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, gliosis, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, fusion process defect, growth arrest, aplasia, apoptosis, desmoplasia, polycystic disease, histiocytosis, arteritis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, encephalomalacia, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Brown adipose tissue - Descriptor PATO IMPC_HIS_241_001 | v1.1

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Brown adipose tissue - MA term IMPC_HIS_354_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: brown adipose tissue, interscapular brown adipose tissue,

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Brown adipose tissue - MPATH pathological entity term IMPC_HIS_237_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: fat cell hyperplasia, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, cystic hyperplasia, infarct, thrombosis, congestion, complex tumor, mineralisation, intracellular and extracellular accumulation, osseous metaplasia, cartilaginous metaplasia, lipomatous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, involution, steatosis, abscess, sarcoma, angiofibroma, hemangioma, hamartoma, teratoma, angiomyolipoma, lipomatous tumor, liposarcoma, lipoma, fibroma, telangiectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, lipid depletion, septation defect, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell sarcoma, spindle cell hyperplasia, xanthoma, recanalised thrombus, interstitial mineralization, myofibroma, metastatic tumor, plasma membrane defect,

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Brown adipose tissue - MPATH pathological process term

IMPC_HIS_239_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, steatitis, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, fat necrosis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, apoptosis, desmoplasia, polycystic disease, histiocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Ear - Descriptor PATO IMPC_HIS_276_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Ear - MA term IMPC_HIS_355_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: ear, bony labyrinth, osseus labyrinth vestibule, vestibular aqueduct, osseus semicircular canal, crus commune, anterior semicircular canal, posterior semicircular canal, lateral semicircular canal, osseus cochlea, osseus spiral lamina, osseus cochlear canal, modiolus, outer ear, external acoustic meatus, external acoustic meatus osseus part, external acoustic meatus cartilaginous part, auricle, ear lobe, helix, auricular nerve, ear skin, auricular cartilage, auricular blood vessel, auricular muscle, extrinsic auricular muscle, intrinsic auricular muscle, auricular ligament, outer ear epithelium, middle ear, tympanic cavity muscle, tensor tympani, stapedius, tympanic membrane, tympanic epithelium, tympanic endothelium, auditory bone, malleus, malleus process brevis, manubrium mallei, malleus head, malleus neck, incus, stapes, stapes base, auditory tube, auditory tube epithelium, tympanic ring, tympanic cavity nerves, tubotympanic recess, tympanic cavity blood vessel, middle ear epithelium, inner ear, inner ear epithelium, otic capsule, perilymphatic channel, scala media, scala tympani, scala vestibuli, semicircular canal, semicircular duct, semicircular duct ampulla, crista ampullaris, crista ampullaris neuroepithelium, sulcus ampullaris, posterior semicircular duct, lateral semicircular duct, anterior semicircular duct, cochlea, cochlear labyrinth, cochlear duct, spiral sulcus, internal spiral sulcus, external spiral sulcus, tectorial membrane, stria vascularis, limbus lamina spiralis, basilar membrane, spiral organ, reticular lamina, spiral ligament, spiral prominence, vestibular membrane, spiral vessel, endolymphatic appendage, endolymphatic sac, endolymphatic duct, membranous labyrinth, vestibular labyrinth, saccule, saccule epithelium, macula of saccule, utricle, macula of utricle, utricle epithelium, vestibular epithelium, otolithic membrane, otolith organ, ductus reuniens, inner ear vestibular component, ear epithelium,

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Ear - MPATH pathological entity term IMPC_HIS_272_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, epithelial hyperplasia, hyperplastic polyp, polyp, inflammatory polyp, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, thrombosis, congestion, edema, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, squamous metaplasia, epithelial metaplasia, osseous metaplasia, cartilaginous metaplasia, glandular metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, prolapse, steatosis, abscess, branching defect, sarcoma, angiofibroma, hemangioma, ceruminous adenoma, papilloma, hamartoma, teratoma, fibroma, fibrous histiocytoma, paraganglioma, telangiectasia, choristoma, nodular hyperplasia, pseudocyst, squamous cell papilloma, squamous cell carcinoma, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, curvature defect, communication defect, heterotopia, melanin deposition, uric acid deposition, demyelination, decalcification, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, osteoporosis, osteopenia, histiocytic sarcoma, perforation, obstruction and stenosis, septation defect, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell hyperplasia, sequestrum, interstitial mineralization, metastatic tumor, stasis, ciliary motility defect, cytoskeletal defect, plasma membrane defect,

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Ear - MPATH pathological process term IMPC_HIS_274_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, fibro-osseous lesion, dysplasia, osteopetrosis, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, hyperostosis, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia,

developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, incomplete closure, fusion process defect, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, otitis media, histiocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, otitis externa, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Epididymis - Descriptor PATO IMPC_HIS_149_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Epididymis - MA term IMPC_HIS_356_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epididymis, epididymal duct, epididymis smooth muscle, epididymis epithelium, corpus epididymis, cauda epididymis, caput epididymis,

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Epididymis - MPATH pathological entity term IMPC_HIS_145_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, epithelial hyperplasia, hyperplastic polyp, polyp, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, congestion, edema, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, squamous metaplasia, epithelial metaplasia, osseous metaplasia, cartilaginous metaplasia, lipomatous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, steatosis, abscess, angiofibroma, blood vessel tumor, hemangioma, hemangiosarcoma, hamartoma, seminoma, teratoma, liposarcoma, lipoma, fibroma, fibrous histiocytoma, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, communication defect, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, histiocytic sarcoma, obstruction and stenosis, septation defect, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, spermatocoele, metastatic tumor, stasis, cryptorchidism, ciliary motility defect, cytoskeletal defect, plasma membrane defect, torsion, lymphedema,

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Epididymis - MPATH pathological process term IMPC_HIS_147_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, steatitis, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, fat necrosis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, polycystic disease, histiocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, aspermia, spermatogenesis defect, hypospermia, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Esophagus - Descriptor PATO IMPC_HIS_047_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Esophagus - MA term IMPC_HIS_357_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: esophagus, esophagus mesentery, dorsal meso-esophagus, esophagus wall, esophagus submucosa, esophagus serosa, esophagus mucosa, esophagus epithelium, esophagus basal epithelium, esophagus squamous epithelium, esophagus lamina propria, esophagus muscularis mucosa, esophagus muscle, esophagus smooth muscle, esophagus smooth muscle longitudinal layer, esophagus smooth muscle circular layer, esophagus skeletal muscle,

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Esophagus - MPATH pathological entity term IMPC_HIS_043_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, fibroglandular hyperplasia, epithelial hyperplasia, hyperplastic polyp, polyp, inflammatory polyp, myoepithelial hyperplasia, microglandular hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, ulcer, congestion, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, squamous metaplasia, epithelial metaplasia, osseous metaplasia, granulation tissue, cartilaginous metaplasia, glandular metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, dilatation, avulsion, involution, abscess, adenoacanthoma, fibroadenoma, adenoma, angiofibroma, hemangioma, papillary adenoma, papilloma, hamartoma, teratoma, lipoma, leiomyosarcoma, rhabdomyosarcoma, leiomyoma, fibroma, adenomatous polyp, choristoma, nodular hyperplasia, pseudocyst, squamous cell papilloma, squamous cell carcinoma, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, diverticulum, communication defect, heterotopia, fistula, hernia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, perforation, obstruction and stenosis,

persistent embryonic structure, supernumerary structure, varices, hematoma, spindle cell hyperplasia, rhabdomyoma, recanalised thrombus, interstitial mineralization, metastatic tumor, stasis, cytoskeletal defect, plasma membrane defect, torsion,

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Esophagus - MPATH pathological process term IMPC_HIS_045_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, incomplete closure, growth arrest, aplasia, apoptosis, desmoplasia, histiocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Eye - Descriptor PATO IMPC_HIS_011_001 | v1.1

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Eye - MA term IMPC_HIS_358_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: harderian gland, eye gland, eye, ocular refractive media, vitreous humor, aqueous humour, optic II nerve, optic chiasm, optic tract, eye anterior segment, uvea, eye posterior chamber, iris, iris epithelium, iris stroma, iris blood vessel, pupil, pupillary membrane, iris nerve, iris muscle, iris smooth muscle, sphincter pupillae, dilatator pupillae, lens, lens epithelium, lens anterior epithelium, lens equatorial epithelium, lens fiber, lens capsule, eye anterior chamber, choroid, choroidal blood vessel, ciliary body, ciliary epithelium, ciliary stroma, conjunctiva, cornea, posterior limiting lamina, corneal blood vessel, anterior limiting lamina, corneal epithelium, corneal endothelium, corneal stroma, corneal nerves, eye trabecular meshwork, eye surface, lacrimal apparatus, lacrimal canaliculus, lacrimal gland, lacrimal gland epithelium, exorbital lacrimal gland, intraorbital lacrimal gland, lacrimal duct, lacrimal sac, nasolacrimal duct, eyelid, eyelid tarsus, medial palpebral ligament, orbital septum, meibomian gland, superior eyelid tarsus, inferior eyelid tarsus, eyelid muscle, levator palpebrae superioris, orbitalis muscle, orbicularis oculi, inner canthus, palpebral conjunctiva, outer canthus, palpebral fissure, eyelid blood vessel, eyelid connective tissue, eyelid subcutaneous connective tissue, eyelid submuscular connective tissue, eyelid skin, eyelid nerve, eyelid epithelium, lower eyelid, upper eyelid, eye posterior segment, vitreous chamber, vitreous body, eye chamber, sclera, eye muscle, extraocular skeletal muscle, oculomotor muscle, oblique extraocular muscle, inferior oblique extraocular muscle, superior oblique extraocular muscle, rectus extraocular muscle, superior rectus extraocular muscle, medial rectus extraocular muscle, lateral rectus extraocular muscle, inferior rectus extraocular muscle, ocular smooth muscle, ciliary muscle, hyaloid cavity, hyaloid vascular plexus, vasa hyaloidea propria, tunica vasculosa plexus, retina, optic disc, retina epithelium, pigmented retinal epithelium,

neural retinal epithelium, retina blood vessel, retina layer, retina inner plexiform layer, retina outer nuclear layer, retina nerve fiber layer, retina outer plexiform layer, retina inner nuclear layer, retina ganglion cell layer, retina photoreceptor layer, retina photoreceptor layer inner segment, retina photoreceptor layer outer segment, retina lamina, retina internal limiting lamina, retina external limiting lamina, macula, choroid fissure, fovea, eye skin gland, sebaceous gland of eye, harderian gland epithelium, eye epithelium, right eye, left eye,

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Eye - MPATH pathological entity term IMPC_HIS_007_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, fibroglandular hyperplasia, epithelial hyperplasia, hyperplastic polyp, polyp, inflammatory polyp, myoepithelial hyperplasia, microglandular hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, ulcer, disseminated intravascular coagulation, congestion, edema, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma, squamous metaplasia, epithelial metaplasia, osseous metaplasia, granulation tissue, cartilaginous metaplasia, glandular metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, serous exudate, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, prolapse, abscess, sarcoma, adenoacanthoma, rhabdoid sarcoma, fibroadenoma, adenoma, angiofibroma, blood vessel tumor, hemangioma, hemangiosarcoma, papillary adenoma, papillary adenocarcinoma, papillary cystadenocarcinoma, Harderian gland carcinoma, Harderian gland adenoma, papilloma, retinoblastoma, hamartoma, melanoma, teratoma, lipoma, fibroma, paraganglioma, symmetry defect, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, cataract; capsular-epithelial, cataract, cataract; cortical liquefactive, cataract; nuclear and cortical, cataract; lens extrusion, pseudocyst, neurofibroma, squamous cell papilloma, squamous cell carcinoma, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, curvature defect, communication defect, heterotopia, fistula, melanin deposition, uric acid deposition, demyelination, iron deposition,

hyalinosis, lipofuscin deposition, lipid deposition, aneurysm, perforation, obstruction and stenosis, persistent embryonic structure, supernumerary structure, varices, hematoma, synechia, spindle cell sarcoma, spindle cell hyperplasia, sub-retinal hemorrhage, recanalised thrombus, pigment dispersion, interstitial mineralization, anopthalmia, micropthalmia, metastatic tumor, stasis, ciliary motility defect, cytoskeletal defect, plasma membrane defect,

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Eye - MPATH pathological process term IMPC_HIS_009_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, glaucoma, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, fusion process defect, growth arrest, aplasia, apoptosis, blepharitis, desmoplasia, polycystic disease, histiocytosis, arteritis, lymphangitis, phlebitis, retinal degeneration, polyarteritis nodosa, compression, phthisis bulbi, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Femur - Descriptor PATO IMPC_HIS_227_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Femur - MA term IMPC_HIS_359_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: femur, trochanter, greater trochanter, lesser trochanter, femur diaphysis, femur epiphysis, femur metaphysis, femur head,

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Femur - MPATH pathological entity term IMPC_HIS_223_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: inflammatory polyp, hemorrhage and non-specified extravasation, embolus, fatty infiltration, extramedullary hemopoiesis, infarct, thrombosis, osseous and chondromatous tumor, congestion, complex tumor, mineralisation, intracellular and extracellular accumulation, osseous metaplasia, cartilaginous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, myeloid hyperplasia, angiectasia, avulsion, steatosis, abscess, sarcoma, blood vessel tumor, hemangioma, hemangiosarcoma, hamartoma, chondroblastoma, erythroid leukaemia, megakaryocytic leukaemia, myeloid leukaemia, myelodysplastic disorder, teratoma, chondroma, osteoblastoma, chondrosarcoma, osteofibroma, osteochondroma, osteosarcoma, osteoma, liposarcoma, lipoma, chordoma, fibroma, fibrous histiocytoma, telangiectasia, choristoma, pseudocyst, synovial sarcoma,

amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, heterotopia, melanin deposition, uric acid deposition, demyelination, decalcification, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, lipid depletion, hypocalcification, osteoporosis, osteopenia, histiocytic sarcoma, cytopenia with increased blasts, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell sarcoma, spindle cell hyperplasia, sequestrum, recanalised thrombus, interstitial mineralization, fracture, metastatic tumor, cytoskeletal defect, plasma membrane defect,

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Femur - MPATH pathological process term IMPC_HIS_225_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, fibro-osseous lesion, dysplasia, osteopetrosis, atrophy, erosion, myelofibrosis, inflammation, neuritis, dystrophy, hypersensitivity disease, arthritis, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, hyperostosis, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, fat necrosis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, arthrosis, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, fusion process defect, growth arrest, aplasia, apoptosis, desmoplasia, chondroarthritis, histiocytosis, mastocytosis, osteomyelitis, arteritis, degenerative arthritis, arthropathy, lymphangitis, phlebitis, cartilagenous erosion, polyarteritis nodosa, compression, bone marrow granulopoiesis, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Gall bladder - Descriptor PATO IMPC_HIS_065_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Gall bladder - MA term IMPC_HIS_360_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: gall bladder, gall bladder epithelium, gall bladder serosa, gall bladder lamina propria, gall bladder smooth muscle,

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Gall bladder - MPATH pathological entity term IMPC_HIS_061_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, epithelial hyperplasia, hyperplastic polyp, polyp, mesothelial hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, congestion, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma,

squamous metaplasia, epithelial metaplasia, osseous metaplasia, cartilaginous metaplasia, karyomegaly, hypertrophic tissue, cholelithiasis, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, abscess, adenoacanthoma, fibroadenoma, adenoma, blood vessel tumor, hemangiosarcoma, papillary adenoma, papillary adenocarcinoma, papillary cystadenocarcinoma, papilloma, hamartoma, teratoma, liposarcoma, lipoma, leiomyosarcoma, leiomyoma, fibroma, adenomatous polyp, ductal ectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, diverticulum, curvature defect, communication defect, heterotopia, fistula, cholangioma, hernia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, perforation, obstruction and stenosis, persistent embryonic structure, supernumerary structure, varices, hematoma, bile deposition, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, metastatic tumor, stasis, situs inversus, cytoskeletal defect, plasma membrane defect, torsion,

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Gall bladder - MPATH pathological process term IMPC_HIS_063_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, myxoid/myxomatous degeneration, depletion, growth arrest, aplasia, apoptosis, desmoplasia, polycystic disease, histiocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration,

subacute inflammation, granuloma, cholecystitis, edematous cholecystitis, peritonitis, foreign body granulomatous peritonitis, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Heart - Descriptor PATO IMPC_HIS_035_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Heart - MA term IMPC_HIS_361_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: heart, heart blood vessel, coronary artery, septal coronary artery, right coronary artery, left coronary artery, apex of heart, outflow tract, outflow tract endothelium, outflow tract pericardium, outflow tract smooth muscle, outflow tract myocardium, outflow tract pulmonary component, outflow tract pulmonary component distal part, outflow tract pulmonary component proximal part, truncus arteriosus, outflow tract aortic component, heart elastic tissue, impulse conducting system, atrioventricular bundle, atrioventricular node, purkinje fiber, sinoatrial node, heart mesentery, dorsal mesocardium, transverse pericardial sinus, heart ventricle, heart ventricle membranous part, left ventricle membranous part, right ventricle membranous part, heart ventricle muscular part, trabecula carnea, trabecula carnea cardiac muscle tissue, left ventricle muscular part,

right ventricle muscular part, papillary muscle, heart ventricle wall, apex of heart ventricle, heart interventricular septum, interventricular septum muscular part, interventricular septum membranous part, ventricle myocardium, right ventricle myocardium, left ventricle myocardium, ventricle endocardium, heart left ventricle, heart right ventricle, heart septum, interatrial septum, foramen ovale, heart valve, valve leaflet, tricuspid valve leaflet, semilunar valve, aortic valve, pulmonary valve, atrioventricular valve, tricuspid valve, mitral valve, myocardium layer, myocardium trabecular layer, myocardium compact layer, heart atrium, atrium auricular region, right atrium auricular region, left atrium auricular region, atrium myocardium, atrium endocardium, heart left atrium, heart right atrium, right atrium valve, right atrium venous valve, heart endocardial cushion,

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Heart - MPATH pathological entity term IMPC_HIS_031_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: mesothelial hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, atrial embolism, fat embolism, infarct, thrombosis, disseminated intravascular coagulation, congestion, edema, complex tumor, mineralisation, intracellular and extracellular accumulation, epithelial metaplasia, osseous metaplasia, granulation tissue, cartilaginous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, truncoconal septal defect, cardiac septation defect, cardiac defect, angiectasia, dilatation, avulsion, involution, prolapse, inter-ventricular septal defect, inter-atrial septal defect, steatosis, abscess, branching defect, sarcoma, rhabdoid sarcoma, angiofibroma, blood vessel tumor, hemangioma, hemangiosarcoma, papilloma, pseudomyxoma peritonei, hamartoma, teratoma, liposarcoma, lipoma, rhabdomyosarcoma, fibroma, fibrous histiocytoma, symmetry defect, telangiectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, diverticulum, curvature defect, communication defect, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, histiocytic sarcoma, aneurysm, perforation, obstruction and stenosis, septation defect,

persistent embryonic structure, supernumerary structure, varices, arteriovenous anastomosis, valve defect, hypoplastic ventricle, hypertrophic ventricle, air embolism, hematoma, spindle cell sarcoma, spindle cell hyperplasia, rhabdomyoma, recanalised thrombus, interstitial mineralization, cartilagenous embolism, epicardial mineralization, myxofibroma, myofibroma, metastatic tumor, stasis, muscle regeneration, cytoskeletal defect, plasma membrane defect,

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Heart - MPATH pathological process term IMPC_HIS_033_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, steatitis, osteoid deposition, cardiomyopathy, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, fat necrosis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, incomplete closure, fusion process defect, growth arrest, aplasia, apoptosis, desmoplasia, polycystic disease, epicarditis, histiocytosis, mastocytosis, arteritis, aortitis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Kidney - Descriptor PATO IMPC_HIS_101_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Kidney - MA term IMPC_HIS_362_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: kidney, kidney tubule, kidney tubule epithelium,
kidney tubule basement membrane, loop of henle, loop of henle ascending limb,
loop of henle ascending limb thin segment, loop of henle ascending limb thick segment,
distal straight tubule premacula segment, distal straight tubule postmacula segment,
distal straight tubule macula densa, loop of henle descending limb,
loop of henle thin descending limb, proximal straight tubule, loop of henle bend,
junctional tubule, kidney convoluted tubule, distal convoluted tubule,
distal convoluted tubule straight part, distal convoluted tubule convoluted part,
distal convoluted tubule macula densa, proximal convoluted tubule,
proximal convoluted tubule neck, proximal convoluted tubule straight part,
proximal convoluted tubule convoluted part, proximal tubule segment 2,
proximal tubule segment 1, kidney medulla tubule, kidney inner medulla loop of henle,
kidney distal tubule, kidney straight tubule, kidney proximal tubule, kidney cortex tubule,
kidney connecting tubule, kidney capsule, kidney collecting duct, papillary duct, area cribosa,
kidney medulla collecting duct, kidney outer medulla collecting duct,
kidney inner medulla collecting duct, kidney cortex collecting duct, ureteric tip, kidney cortex,
renal corpuscle, urinary space, glomerular capsule, glomerular juxtacapillary capsular wall,
glomerular outer capsular wall, glomerular parietal epithelium, glomerulus,
glomerular capillary, glomerular capillary endothelium,
glomerular capillary basement membrane, glomerular visceral epithelium,
glomerular mesangium, efferent arteriole, afferent arteriole, rest of afferent arteriole,
part of afferent arteriole forming juxtaglomerular complex, extraglomerular mesangium,
juxtamedullary renal corpuscle, kidney cortex vein, interlobular vein, arcuate vein,

kidney cortex peritubular capillary, kidney cortex artery, arcuate artery, interlobular artery, juxtaglomerular complex, macula densa, kidney cortex interstitium, kidney outer cortex, cortical arch, kidney column, juxtamedullary cortex, kidney medulla, kidney pyramid, kidney outer medulla, kidney outer medulla vasa recta, kidney outer medulla peritubular capillary, outer medulla outer stripe, outer medulla outer stripe loop of henle, kidney outer medulla interstitium, outer medulla inner stripe, outer medulla inner stripe loop of henle, kidney inner medulla, inner renal medulla vasa recta, kidney inner medulla interstitium, kidney pelvis, kidney papilla, kidney pelvis urothelium, kidney pelvis smooth muscle, perihilar interstitium, nephron, kidney calyx, minor calyx, major calyx, kidney blood vessel, kidney venous blood vessel, renal vein, left renal vein, right renal vein, kidney capillary, renal medullary capillary, peritubular capillary, kidney arterial blood vessel, renal artery, right renal artery, left renal artery, nephrogenic zone, nephrogenic interstitium, cap mesenchyme, pretubular aggregate, kidney epithelium, kidney glomerular epithelium, renal nerve, kidney interstitium, kidney subcapsular mesenchyme, kidney medulla interstitium, mesangium, right kidney, left kidney,

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Kidney - MPATH pathological entity term IMPC_HIS_097_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, epithelial hyperplasia, hyperplastic polyp, polyp, myoepithelial hyperplasia, mesothelial hyperplasia, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, transitional cell tumor, disseminated intravascular coagulation, congestion, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma, epithelial metaplasia, transitional cell metaplasia, osseous metaplasia, cartilaginous metaplasia, nephrogenic metaplasia, hydronephrosis, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, dilatation, avulsion, involution, steatosis, abscess, nephroblastoma, fibroadenoma, adenoma, angiofibroma, hemangioma, papillary adenoma, papillary adenocarcinoma, papillary cystadenocarcinoma, papilloma,

hamartoma, mesothelioma, teratoma, liposarcoma, lipoma, fibroma, fibrous histiocytoma, adenomatous polyp, symmetry defect, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, curvature defect, communication defect, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, histiocytic sarcoma, mast cell sarcoma, obstruction and stenosis, septation defect, persistent embryonic structure, supernumerary structure, varices, hematoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, urelithiasis, uretolithiasis, metastatic tumor, stasis, situs inversus, ciliary motility defect, cytoskeletal defect, plasma membrane defect,

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Kidney - MPATH pathological process term IMPC_HIS_099_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, glomerulonephritis, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, membraneous glomerulonephritis, membraneoproliferative glomerulonephritis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, polycystic disease, interstitial nephritis, histiocytosis, nephritis, pyelonephritis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, peritonitis, foreign body granulomatous peritonitis, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Knee joint - Descriptor PATO IMPC_HIS_255_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Knee joint - MA term IMPC_HIS_363_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: knee joint,

Knee joint - MPATH pathological entity term IMPC_HIS_251_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hemorrhage and non-specified extravasation, embolus, fatty infiltration, extramedullary hemopoiesis, cystic hyperplasia, infarct, thrombosis, osseous and chondromatous tumor, congestion, complex tumor, mineralisation, intracellular and extracellular accumulation, osseous metaplasia, cartilaginous metaplasia,

karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, myeloid hyperplasia, angiectasia, avulsion, steatosis, abscess, sarcoma, blood vessel tumor, hemangioma, hemangiosarcoma, hamartoma, chondroblastoma, erythroid leukaemia, megakaryocytic leukaemia, myeloid leukaemia, myelodysplastic disorder, teratoma, chondroma, osteoblastoma, chondrosarcoma, osteofibroma, osteochondroma, osteosarcoma, osteoma, liposarcoma, lipoma, chordoma, fibroma, fibrous histiocytoma, choristoma, pseudocyst, synovial sarcoma, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, curvature defect, heterotopia, melanin deposition, uric acid deposition, demyelination, decalcification, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, lipid depletion, hypocalcification, osteoporosis, osteopenia, histiocytic sarcoma, cytopenia with increased blasts, persistent embryonic structure, supernumerary structure, varices, hematoma, spindle cell sarcoma, spindle cell hyperplasia, exostosis, sequestrum, recanalised thrombus, interstitial mineralization, fracture, metastatic tumor, cytoskeletal defect, plasma membrane defect,

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Knee joint - MPATH pathological process term IMPC_HIS_253_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, fibro-osseous lesion, dysplasia, osteopetrosis, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, arthritis, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, hyperostosis, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, arthrosis, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, incomplete closure, fusion process defect, growth arrest, aplasia, apoptosis, desmoplasia, polycystic disease, chondroarthritis, histiocytosis, mastocytosis, osteomyelitis, arteritis, degenerative arthritis, arthropathy, lymphangitis,

phlebitis, cartilagenous erosion, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Large intestine - Descriptor PATO IMPC_HIS_083_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Large intestine - MA term IMPC_HIS_364_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: cecum, colon, large intestine, appendix, colon muscularis, colon submucosa, colon serosa, colon mucosa, colon lamina propria, colon muscularis mucosa, colon epithelium, transverse colon, descending colon, ascending colon, rectum, rectum mucosa, rectum epithelium, large intestine peyers patch, large intestine crypt of lieberkuhn, large intestine wall, large intestine serosa, large intestine smooth muscle, large intestine smooth muscle circular layer, large intestine smooth muscle longitudinal layer, large intestine submucosa, large intestine mucosa, large intestine epithelium, large intestine muscularis mucosa,

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Large intestine - MPATH pathological entity term IMPC_HIS_079_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, fibroglandular hyperplasia, epithelial hyperplasia, goblet cell hyperplasia, hyperplastic polyp, polyp, inflammatory polyp, myoepithelial hyperplasia, microglandular hyperplasia, mesothelial hyperplasia, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, ulcer, congestion, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma, mucinous carcinoma, squamous metaplasia, epithelial metaplasia, osseous metaplasia, cartilaginous metaplasia, goblet cell metaplasia, glandular metaplasia, intestinal metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, serous exudate, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, prolapse, steatosis, abscess, adenoacanthoma, fibroadenoma, adenoma, angiofibroma, blood vessel tumor, hemangioma, hemangiosarcoma, papillary adenoma, papillary adenocarcinoma, papillary cystadenocarcinoma, papilloma, signet ring cell carcinoma, pseudomyxoma peritonei, hamartoma, mesothelioma, carcinoid tumor, teratoma, liposarcoma, lipoma, leiomyosarcoma, leiomyoma, fibroma, adenomatous polyp, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, intestinal intra-epithelial neoplasia, pseudocyst, squamous cell carcinoma, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, diverticulum, communication defect, mucous secretions, heterotopia, fistula, hernia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, mast cell sarcoma, perforation, obstruction and stenosis, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, bile deposition, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, melena, intussception, metastatic tumor, rectal prolapse, stasis, situs inversus, cytoskeletal defect, plasma membrane defect, torsion, lymphedema,

Large intestine - MPATH pathological process term IMPC_HIS_081_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, steatitis, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, fat necrosis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, myxoid/myxomatous degeneration, depletion, incomplete closure, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, histiocytosis, mastocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, peritonitis, foreign body granulomatous peritonitis, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Liver - Descriptor PATO IMPC_HIS_059_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Liver - MA term IMPC_HIS_365_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: liver, liver parenchyma, liver lobule, bile canaliculus,
liver perisinusoidal space, liver acinus, liver sinusoid, intralobular bile duct, portal triad,
interlobular bile duct, portal lobule, liver lobe, liver left lobe, liver left medial lobe,
liver left lateral lobe, liver middle lobe, liver right lobe, liver caudate lobe, liver quadrate lobe,
liver bare area, liver papillary process, bile duct intrahepatic part,
hepatic duct intrahepatic part, intrahepatic part of right hepatic duct,
intrahepatic part of left hepatic duct, intrahepatic bile duct epithelium, liver blood vessel,

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Liver - MPATH pathological entity term IMPC_HIS_055_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hyperplastic polyp, polyp, mesothelial hyperplasia, lymphoid hyperplasia,
hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia,
infarct, thrombosis, congestion, complex tumor, mineralisation,
intracellular and extracellular accumulation, osseous metaplasia, cartilaginous metaplasia,
karyomegaly, hepatocytomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition,
crystalloid formation, pigmentation, focus of cellular alteration, angiectasia, avulsion,
involution, steatosis, abscess, sarcoma, rhabdoid sarcoma, angiofibroma, blood vessel tumor,
hemangioma, hemangiosarcoma, papilloma, pseudomyxoma peritonei, hamartoma,
hepatocellular adenoma, hepatic tumor, cholangiofibroma, cholangiocarcinoma,
hepatoblastoma, mesothelioma, erythroid leukaemia, megakaryocytic leukaemia,
myeloid leukaemia, teratoma, liposarcoma, lipoma, fibroma, fibrous histiocytoma,
symmetry defect, telangiectasia, choristoma, nodular hyperplasia, pseudocyst,
amyloid deposition, calcium deposition, copper deposition, protein deposition,
ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity,
curvature defect, heterotopia, hepatocholangiocellular adenoma, cholangioma,
melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis,

lipofuscin deposition, lipid deposition, glycogen depletion, lipid depletion, histiocytic sarcoma, mast cell sarcoma, obstruction and stenosis, septation defect, persistent embryonic structure, supernumerary structure, varices, arteriovenous anastomosis, lymphangiectasis, hematoma, bile deposition, spindle cell sarcoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, macrovesicular lipidosis, microvesicular lipidosis, metastatic tumor, hepatic centrolobular fatty metamorphosis, hepatic mid-zonal fatty metamorphosis, stasis, situs inversus, cytoskeletal defect, plasma membrane defect,

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Liver - MPATH pathological process term IMPC_HIS_057_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, bridging necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, polycystic disease, histiocytosis, mastocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, cholecystitis, edematous cholecystitis, hepatic peri-ductal inflammation, hepatic central vein perivascular fibrosis, peritonitis, foreign body granulomatous peritonitis, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Lung - Descriptor PATO IMPC_HIS_053_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Lung - MA term IMPC_HIS_366_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: lung, lung blood vessel, lung connective tissue, lung epithelium, alveolus epithelium, bronchiole epithelium, right lung epithelium, left lung epithelium, lobar bronchus, lobar bronchus connective tissue, lobar bronchus epithelium, right lung lobar bronchus epitheium, left lung lobar bronchus epithelium, left lung lobar bronchus, right lung lobar bronchus, bronchiole, respiratory bronchiole, respiratory bronchiole epithelium, terminal bronchiole, terminal bronchiole epithelium, alveolar system, interalveolar septum, lung alveolus, alveolar wall, alveolar sac, alveolar atrium, alveolar duct, alveolar smooth muscle, lung elastic tissue, lung hilus, right lung hilus, left lung hilus, lung lobe, right lung lobe, right lung middle lobe, right lung cranial lobe, right lung accessory lobe, right lung caudal lobe, lung parenchyma, left lung, left lung alveolar system, left lung alveolus, left lung alveolar duct, left lung bronchiole, left lung terminal bronchiole, left lung respiratory bronchiole, right lung, right lung bronchiole, right lung respiratory bronchiole, right lung terminal bronchiole, right lung alveolar system, right lung alveolus, right lung alveolar duct,

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Lung - MPATH pathological entity term IMPC_HIS_049_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, fibroglandular hyperplasia, epithelial hyperplasia, goblet cell hyperplasia, hyperplastic polyp, polyp, inflammatory polyp, myoepithelial hyperplasia, microglandular hyperplasia, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, fat embolism, infarct, thrombosis, congestion, edema, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma, squamous metaplasia, epithelial metaplasia, osseous metaplasia, cartilaginous metaplasia, goblet cell metaplasia, glandular metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, serous exudate, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, dilatation, avulsion, empyema, abscess, branching defect, adenoacanthoma, pulmonary blastoma, fibroadenoma, adenoma, angiofibroma, blood vessel tumor, hemangioma, hemangiosarcoma, papillary adenoma, papillary adenocarcinoma, papillary cystadenocarcinoma, bronchioloalveolar adenoma, clear cell adenocarcinoma, bronchioloalveolar carcinoma, papilloma, small cell carcinoma, hamartoma, mesothelioma, carcinoid tumor, erythroid leukaemia, megakaryocytic leukaemia, myeloid leukaemia, teratoma, lipoma, leiomyosarcoma, lymphangiomyomatosis, leiomyoma, fibroma, fibrous histiocytoma, adenomatous polyp, symmetry defect, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, curvature defect, communication defect, mucous secretions, heterotopia, hernia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, histiocytic sarcoma, perforation, obstruction and stenosis, septation defect, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, air embolism, hematoma, spindle cell hyperplasia, bronchiectasia, recanalised thrombus, interstitial mineralization, cartilagenous embolism, metastatic tumor, ciliary motility defect, cytoskeletal defect, plasma membrane defect, lymphedema,

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Lung - MPATH pathological process term IMPC_HIS_051_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, acidophilic macrophage pneumonia, pneumonia, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, emphysema, liquefactive necrosis, hemorrhagic necrosis, depletion, incomplete closure, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, polycystic disease, histiocytosis, mastocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, pneumonitis, foreign body aspiration pneumonia, histiocytic pneumonitis, bullous emphysema, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Lymph node - Descriptor PATO IMPC_HIS_119_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Lymph node - MA term IMPC_HIS_367_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: lymph node, mesenteric lymph node, abdominal lymph node, lymph node cortex, lymph node endothelium, lymph node follicle, lymph node primary follicle, lymph node secondary follicle, lymph node follicular mantle, lymph node germinal center, lymph node medulla, lymph node trabeculum, lymph node capsule, lymph node T cell domain, lymph node B cell domain, lymph node subcortical sinus, inguinal lymph node, popliteal lymph node, axillary lymph node, cervical lymph node, superficial cervical lymph node, deep cervical lymph node, retropharyngeal lymph node, prescapular lymph node, renal lymph node, pancreatic lymph node, sciatic lymph node, sacral lymph node, mediastinal lymph node, lumbar lymph node, brachial lymph node, submandibular lymph node, celiac lymph node, auricular lymph node, parotid lymph node, bronchial lymph node, paraaortic lymph node, splenic lymph node, gastric lymph node, hepatic lymph node, iliac lymph node, mandibular lymph node, ileocecocolic lymph node, tracheobronchial lymph node, subcutaneous lymph node, thymic lymph node,

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Lymph node - MPATH pathological entity term IMPC_HIS_115_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hyperplastic polyp, polyp, inflammatory polyp, mesothelial hyperplasia, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, congestion, complex tumor, mineralisation, intracellular and extracellular accumulation, osseous metaplasia, cartilaginous metaplasia, lipomatous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, dilatation, avulsion, involution, steatosis, abscess, sarcoma, rhabdoid sarcoma, angiofibroma, blood vessel tumor, hemangioma, hemangiosarcoma, hamartoma, erythroid leukaemia, megakaryocytic leukaemia, myeloid leukaemia, teratoma, liposarcoma, lipoma, fibrous histiocytoma, symmetry defect, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition,

protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, curvature defect, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, histiocytic sarcoma, septation defect, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell sarcoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, lymph node reticuloendothelial cell hyperplasia, metastatic tumor, cytoskeletal defect, plasma membrane defect, lymphedema,

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Lymph node - MPATH pathological process term IMPC_HIS_117_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, apoptosis, desmoplasia, polycystic disease, histiocytosis, mastocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Mammary gland - Descriptor PATO IMPC_HIS_113_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Mammary gland - MA term IMPC_HIS_368_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: mammary gland, mammary gland alveolus, mammary gland fat, mammary gland connective tissue, mammary gland smooth muscle, nipple, mammary gland duct, mammary gland epithelium, mammary gland lobule, mammary gland sebaceous gland, areola, thoracic mammary gland, inguinal mammary gland, abdominal mammary gland, cervical mammary gland,

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Mammary gland - MPATH pathological entity term IMPC_HIS_109_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, fibroglandular hyperplasia, epithelial hyperplasia, hyperplastic polyp, polyp, intraductal hyperplasia, inflammatory polyp, myoepithelial hyperplasia, microglandular hyperplasia, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, ulcer, congestion, edema, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma,

squamous metaplasia, epithelial metaplasia, osseous metaplasia, granulation tissue, cartilaginous metaplasia, glandular metaplasia, lipomatous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, serous exudate, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, steatosis, abscess, adenoacanthoma, fibroadenoma, adenoma, angiofibroma, blood vessel tumor, hemangioma, hemangiosarcoma, apocrine adenoma, lobular carcinoma in situ, myoepithelioma, papillary adenoma, papillary adenocarcinoma, papillary cystadenocarcinoma, comedocarcinoma, infiltrating duct carcinoma, intraductal papilloma, papilloma, intraductal papillary carcinoma, intraductal papillomatosis, lobular carcinoma, hamartoma, teratoma, angiomyolipoma, lipomatous tumor, liposarcoma, lipoma, lymphangioma, leiomyoma, fibroma, adenomatous polyp, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, ductal intra-epithelial neoplasia, pseudocyst, squamous cell papilloma, squamous cell carcinoma, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, diverticulum, heterotopia, fistula, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, lipid depletion, obstruction and stenosis, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell hyperplasia, xanthoma, recanalised thrombus, interstitial mineralization, myxofibroma, myofibroma, metastatic tumor, stasis, cytoskeletal defect, plasma membrane defect, lymphedema,

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Mammary gland - MPATH pathological process term IMPC_HIS_111_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, steatitis, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, fat necrosis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia,

angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, polycystic disease, histiocytosis, mastitis, mastocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Nasal cavity - Descriptor PATO IMPC_HIS_269_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Nasal cavity - MA term IMPC_HIS_369_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: nasal cavity, nasal cavity epithelium, nasal cavity respiratory epithelium, nasal cavity olfactory epithelium,

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Nasal cavity - MPATH pathological entity term IMPC_HIS_265_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, fibroglandular hyperplasia, epithelial hyperplasia, hyperplastic polyp, polyp, inflammatory polyp, myoepithelial hyperplasia, microglandular hyperplasia, lymphoid hyperplasia, hemorrhage and non-specified extravasation, fatty infiltration, cystic hyperplasia, thrombosis, ulcer, congestion, edema, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma, squamous metaplasia, epithelial metaplasia, osseous metaplasia, cartilaginous metaplasia, glandular metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, serous exudate, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, steatosis, abscess, branching defect, adenoacanthoma, fibroadenoma, adenoma, angiofibroma, hemangioma, papillary adenoma, papillary adenocarcinoma, papillary cystadenocarcinoma, papilloma, esthesioneuroblastoma, hamartoma, teratoma, lipoma, fibroma, adenomatous polyp, symmetry defect, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, pseudocyst, squamous cell papilloma, squamous cell carcinoma, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, diverticulum, curvature defect, communication defect, mucous secretions, heterotopia, fistula, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, perforation, obstruction and stenosis, septation defect, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, metastatic tumor, stasis, ciliary motility defect, cytoskeletal defect, plasma membrane defect, lymphedema,

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Nasal cavity - MPATH pathological process term IMPC_HIS_267_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, osteopetrosis, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, hyperostosis, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, incomplete closure, fusion process defect, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, histiocytosis, rhinitis, mastocytosis, arteritis, lymphangitis, phlebitis, sinusitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, foreign body rhinitis, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Ovary - Descriptor PATO IMPC_HIS_167_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Ovary - MA term IMPC_HIS_370_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: ovary, ovary germinal epithelium, ovary theca, ovary theca externa, ovary theca interna, zona pellucida, ovary capsule, ovary follicle, ovary stratum granulosum, cumulus oophorus, ovary primordial follicle, ovary growing follicle, ovary mature follicle, ovary primary follicle, ovary antral follicle, ovary secondary follicle, ovary stroma, rete ovarii of ovary, corpus luteum, right ovary, left ovary,

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Ovary - MPATH pathological entity term IMPC_HIS_163_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, epithelial hyperplasia, hyperplastic polyp, polyp, inflammatory polyp, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, congestion, edema, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma, squamous metaplasia, epithelial metaplasia, osseous metaplasia, cartilaginous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, steatosis, abscess, adenoacanthoma, fibroadenoma, adenoma, angiofibroma, blood vessel tumor, hemangioma, hemangiosarcoma, papillary adenoma, papillary adenocarcinoma, papillary cystadenocarcinoma, papilloma, serous cystadenoma, gonadal tumor, neuroendocrine tumor, hamartoma, mesonephroma, mesonephric tumor, sertoli cell tumor, ovarian stromal tumor, thecoma, germ cell tumor, dermoid cyst, dysgerminoma, luteal cell tumor, teratoma, teratocarcinoma, granulosa cell tumor, lipoma, fibroma, fibrous histiocytoma, adenomatous polyp, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, communication defect, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, histiocytic sarcoma, obstruction and stenosis, septation defect, persistent embryonic structure, supernumerary structure, germ cell defect, varices, lymphangiectasis, hematoma, spindle cell hyperplasia, ovarian follicular cyst,

recanalised thrombus, interstitial mineralization, ovarian bursal cyst, true hermaphrodite, ovarian tubulostromal tumor, metastatic tumor, stasis, bursal cyst, ciliary motility defect, cytoskeletal defect, plasma membrane defect, torsion, lymphedema,

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Ovary - MPATH pathological process term IMPC_HIS_165_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, steatitis, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, fat necrosis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, myxoid/myxomatous degeneration, depletion, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, polycystic disease, histiocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, follicular atresia, inspissation, follicular dystrophy, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Pancreas - Descriptor PATO IMPC_HIS_089_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Pancreas - MA term IMPC_HIS_371_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: pancreas, pancreas lobe, pancreas left lobe, pancreas right lobe, pancreas parenchyma, exocrine pancreas, pancreatic acinus, pancreatic duct, dorsal pancreatic duct, ventral pancreatic duct, pancreas body, pancreas head, pancreas tail, endocrine pancreas, pancreatic islet, pancreatic islet mantle, pancreatic islet core,

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Pancreas - MPATH pathological entity term IMPC_HIS_085_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: fibroglandular hyperplasia, myoepithelial hyperplasia, microglandular hyperplasia, mesothelial hyperplasia, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, congestion, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma, osseous metaplasia, cartilaginous metaplasia, glandular metaplasia, lipomatous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, serous exudate, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, avulsion, involution, steatosis, abscess, adenoacanthoma, fibroadenoma, adenoma, angiofibroma, hemangioma, papillary adenoma, papillary adenocarcinoma, papillary cystadenocarcinoma, islet cell adenoma,

islet cell carcinoma, pseudomyxoma peritonei, hamartoma, mesothelioma, teratoma, liposarcoma, lipoma, fibroma, fibrous histiocytoma, adenomatous polyp, ductal ectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, heterotopia, hernia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, histiocytic sarcoma, obstruction and stenosis, septation defect, persistent embryonic structure, supernumerary structure, varices, hematoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, metastatic tumor, situs inversus, cytoskeletal defect, plasma membrane defect, torsion,

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Pancreas - MPATH pathological process term IMPC_HIS_087_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, steatitis, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, fat necrosis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, fusion process defect, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, polycystic disease, interstitial pancreatitis, histiocytosis, arteritis, lymphangitis, phlebitis, acinar atrophy, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, peritonitis, foreign body granulomatous peritonitis, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Pituitary gland - Descriptor PATO IMPC_HIS_373_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Pituitary gland - MA term IMPC_HIS_375_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: pituitary gland, adenohypophysis, pars anterior, pars intermedia, pars tuberalis, remnant of Rathkes pouch, neurohypophysis, pars posterior, infundibulum, median eminence,

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Pituitary gland - MPATH pathological entity term IMPC_HIS_376_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, epithelial hyperplasia, hyperplastic polyp, polyp, inflammatory polyp, myoepithelial hyperplasia, microglandular hyperplasia, lymphoid hyperplasia, hemorrhage and non-specified extravasation, fatty infiltration, cystic hyperplasia, thrombosis,

congestion, edema, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cartilaginous metaplasia, glandular metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, steatosis, abscess, craniopharyngioma, adenoma, hemangiosarcoma, papillary adenoma, pituicytoma, neuroendocrine tumor, hamartoma, teratoma, fibrous histiocytoma, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, histiocytic sarcoma, septation defect, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell hyperplasia, interstitial mineralization, metastatic tumor, cytoskeletal defect, plasma membrane defect,

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Pituitary gland - MPATH pathological process term IMPC_HIS_377_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, apoptosis, desmoplasia, polycystic disease, histiocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Prostate gland - Descriptor PATO IMPC_HIS_155_001 | v1.1

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Prostate gland - MA term IMPC_HIS_380_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: prostate gland, prostate gland epithelium, prostate gland smooth muscle, prostate gland lobe, prostate gland anterior lobe, prostate gland ventral lobe, prostate gland dorsolateral lobe, prostate gland lateral lobe, prostate gland dorsal lobe, prostate duct, prostate gland stroma,

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Prostate gland - MPATH pathological entity term IMPC_HIS_151_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, fibroglandular hyperplasia, epithelial hyperplasia, goblet cell hyperplasia, hyperplastic polyp, polyp, myoepithelial hyperplasia, microglandular hyperplasia, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, transitional cell tumor, congestion, edema, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma, squamous metaplasia, epithelial metaplasia, osseous metaplasia, cartilaginous metaplasia, glandular metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, serous exudate, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, steatosis, abscess, branching defect, adenoacanthoma, fibroadenoma, adenoma, angiofibroma, hemangioma, papillary adenoma, papillary adenocarcinoma, papillary cystadenocarcinoma, papilloma, hamartoma, teratoma, fibroma, adenomatous polyp, symmetry defect, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, communication defect, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, obstruction and stenosis, septation defect, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, metastatic tumor, stasis, ciliary motility defect, cytoskeletal defect, plasma membrane defect, lymphedema,

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Prostate gland - MPATH pathological process term IMPC_HIS_153_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation,

necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, polycystic disease, histiocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Salivary gland - Descriptor PATO IMPC_HIS_213_001 | v1.1

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Salivary gland - MA term IMPC_HIS_381_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: salivary gland, parotid gland, major salivary gland, sublingual gland, submandibular gland, salivary gland epithelium, salivary duct, lingual gland duct, sublingual duct, submandibular duct, parotid duct, minor salivary gland, palatine gland, anterior lingual gland, anterior buccal gland,

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Salivary gland - MPATH pathological entity term IMPC_HIS_209_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, fibroglandular hyperplasia, epithelial hyperplasia, hyperplastic polyp, polyp, inflammatory polyp, myoepithelial hyperplasia, microglandular hyperplasia, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, congestion, edema, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma, squamous metaplasia, epithelial metaplasia, osseous metaplasia, cartilaginous metaplasia, glandular metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, serous exudate, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, steatosis, abscess, adenoacanthoma, mucoepidermoid carcinoma, fibroadenoma, adenoma, blood vessel tumor, hemangiosarcoma, papillary adenoma, papillary adenocarcinoma, papillary cystadenocarcinoma, serous adenocarcinoma, hamartoma, teratoma, liposarcoma, lipoma, fibroma, symmetry defect, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, diverticulum, plasma cell neoplasms, communication defect, mucous secretions, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, obstruction and stenosis, septation defect, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, sialocele, metastatic tumor, stasis, cytoskeletal defect, plasma membrane defect, lymphedema,

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Salivary gland - MPATH pathological process term IMPC_HIS_211_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, polycystic disease, histiocytosis, mastocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Sciatic nerve - Descriptor PATO IMPC_HIS_297_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Sciatic nerve - MA term IMPC_HIS_382_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: sciatic nerve,

Sciatic nerve - MPATH pathological entity term IMPC_HIS_293_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hemorrhage and non-specified extravasation, fatty infiltration, cystic hyperplasia, peripheral nervous system tumors, congestion, edema, mineralisation, intracellular and extracellular accumulation, osseous metaplasia, cartilaginous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, avulsion, involution, steatosis, abscess, sarcoma, ganglioneuroma, hamartoma, teratoma, fibroma, paraganglioma, choristoma, pseudocyst, schwannoma, nerve sheath tumor, neurofibrosarcoma, neurofibroma, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, lipid depletion, persistent embryonic structure, supernumerary structure, spindle cell sarcoma, spindle cell hyperplasia, interstitial mineralization, metastatic tumor, cytoskeletal defect, plasma membrane defect,

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Sciatic nerve - MPATH pathological process term IMPC_HIS_295_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, gliosis, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, apoptosis, desmoplasia, histiocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Seminal vesicle - Descriptor PATO IMPC_HIS_161_001 | v1.1

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Seminal vesicle - MA term IMPC_HIS_383_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: seminal vesicle, seminal vesicle epithelium, seminal vesicle muscle layer,

Seminal vesicle - MPATH pathological entity term IMPC_HIS_157_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, fibroglandular hyperplasia, epithelial hyperplasia, goblet cell hyperplasia, hyperplastic polyp, polyp, myoepithelial hyperplasia, microglandular hyperplasia, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, congestion, edema, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma, squamous metaplasia, epithelial metaplasia, osseous metaplasia, cartilaginous metaplasia, glandular metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, serous exudate, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, steatosis, abscess, adenoacanthoma, fibroadenoma, adenoma, angiofibroma, hemangioma, papillary adenoma, papillary adenocarcinoma, papillary cystadenocarcinoma, papilloma, hamartoma, teratoma, fibroma, adenomatous polyp, symmetry defect, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, communication defect, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, obstruction and stenosis, septation defect, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, metastatic tumor, stasis, ciliary motility defect, cytoskeletal defect, plasma membrane defect, lymphedema,

Seminal vesicle - MPATH pathological process term IMPC_HIS_159_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, polycystic disease, histiocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Skeletal muscle - Descriptor PATO IMPC_HIS_131_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Skeletal muscle - MA term IMPC_HIS_384_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: skeletal muscle, quadriceps, diaphragm, skeletal muscle tissue, orbicularis oculi, skeletal muscle connective tissue, longissimus atlantis, longissimus capitis, mylohyoid, lumbosacrocaudalis, masseter, longus capitis, longus colli, omohyoid, omotransverse, obturator externus, peroneus longus, pectineus, palatoglossus, parotidoauricular, pronator teres, rectus thoracis, rhomboid, rectus abdominis, rectus femoris, quadratus lumborum, pterygoid lateralis, pterygoid medialis, sartorius, scalenus dorsalis, scalenus medius, semitendinosus, semispinalis cervicis, semispinalis thoracis, semimembranosus, semispinalis capitis, sphincter colli superficialis, spinalis thoracis, subscapularis, supraspinatus, sternothyroid, styloglossus, sternomastoid, sternooccipital, splenius, sternohyoid, tensor fasciae lata, teres major, temporalis, triceps brachii, transversus thoracis, trapezius, transversus abdominis, thyrohyoid, longissimus lumborum, longissimus cervicis, longissimus thoracis, ischiocavernosus, levator ani, latissimus dorsi, levator nasolabialis, levator labii superioris, intercostales, intercostales externus, intercostales internus, intrinsic tongue muscle, intrinsic tongue muscle vertical component, intrinsic tongue muscle transverse component, iliopsoas, infraspinatus, iliothoracic, hand interosseous muscle, dorsal hand interosseus muscle, palmar hand interosseus muscle, hand lumbrical muscle, iliacus, hyoglossus, iliocostalis, iliocostalis thoracis, hamstring muscle, gracilis, foot interosseus muscle, dorsal foot interosseus muscle, plantar foot interosseus muscle, foot lumbrical muscle, genioglossus, gastrocnemius, geniohyoid, flexor hallucis longus, flexor digitorum profundus, gluteal muscle, gluteus medius, gluteus maximus, soleus, pectoralis muscle, pectoralis major, pectoralis minor, tibialis muscle, tibialis caudalis, tibialis cranialis, vastus lateralis, urethralis, zygomaticus, vastus medialis, triceps surae, extensor digitorum longus, extensor digitorum lateralis, flexor carpi radialis, extrinsic tongue muscle, flexor digitorum longus, flexor carpi ulnaris, extensor carpi radialis longus, extensor carpi radialis brevis, extensor digitorum communis, extensor carpi ulnaris, cricothyroid, cricoarytenoid, deltoid, cutaneous trunci, digastric, depressor labii inferioris, erector spinae, coracobrachial, constrictor vulvae, bulboglandular, buccinator, cleidocephalic, cleidobrachial, coccygeus, cleidooccipital, constrictor muscle of pharynx, constrictor muscle of pharynx superior, constrictor muscle of pharynx inferior, brachialis, biceps femoris, biceps brachii, abductor pollicis longus, anterior abdominal wall muscle, adductor group (leg), levator auris longus, external anal sphincter, platysma, oblique abdominal muscle, obliquus internus abdominis, obliquus externus abdominis, serratus muscle, serratus dorsalis caudalis, serratus ventralis, serratus dorsalis cranialis, popliteus, psoas muscle, psoas major, psoas minor, prevertebral muscle of neck,

Skeletal muscle - MPATH pathological entity term IMPC_HIS_127_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, infarct, thrombosis, disseminated intravascular coagulation, congestion, complex tumor, mineralisation, intracellular and extracellular accumulation, osseous metaplasia, granulation tissue, cartilaginous metaplasia, lipomatous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, avulsion, steatosis, abscess, sarcoma, rhabdoid sarcoma, angiofibroma, blood vessel tumor, hemangioma, hemangiosarcoma, hamartoma, teratoma, angiomyolipoma, lipomatous tumor, liposarcoma, lipoma, rhabdomyosarcoma, fibroma, telangiectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, septation defect, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell sarcoma, spindle cell hyperplasia, rhabdomyoma, recanalised thrombus, interstitial mineralization, myxofibroma, myofibroma, metastatic tumor, muscle regeneration, cytoskeletal defect, plasma membrane defect, lymphedema,

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Skeletal muscle - MPATH pathological process term IMPC_HIS_129_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, steatitis, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, myositis, fat necrosis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, myxoid/myxomatous degeneration, depletion, fusion process defect, growth arrest, aplasia, apoptosis, desmoplasia, polycystic disease, histiocytosis, mastocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, multifocal muscle regeneration, reactive fibrosis, neoplasia,

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Skin - Descriptor PATO IMPC_HIS_125_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Skin - MA term IMPC_HIS_385_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: skin, meibomian gland, eye skin gland, sebaceous gland of eye, subcutaneous lymph node, mammary gland sebaceous gland, dermis, dermis papillary layer, dermis reticular layer, superficial dermis, dermis adipose tissue, dermis connective tissue, epidermis, epidermis stratum basale, epidermis stratum corneum, epidermis stratum granulosum, epidermis stratum lucidum, epidermis stratum spinosum, epidermis suprabasal layer, skin gland, sweat gland, apocrine sweat gland, skin mucous gland, sebaceous gland, vagina sebaceous gland, pilosebaceous gland, modified sebaceous gland, zymbal gland, clitoral/preputial gland, preputial gland of male, clitoral gland, skin muscle, arrector pili smooth muscle, head or neck skin, neck skin, head skin, snout skin, nose skin, tail skin, limb skin, forelimb skin, wrist skin, hand skin, shoulder skin, arm skin, elbow skin, upper arm skin, lower arm skin, axilla skin, hindlimb skin, ankle skin, leg skin, upper leg skin, lower leg skin, knee skin, foot skin, foot pad skin, heel skin, hip skin, autopod skin, trunk skin, thorax skin, chest skin, upper back skin, abdominal segment skin, pelvis skin, perianal skin, abdomen skin, lower back skin, back skin,

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Skin - MPATH pathological entity term IMPC_HIS_121_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, fibroglandular hyperplasia, fibroepithelial polyp, epithelial hyperplasia, hyperplastic polyp, polyp, inflammatory polyp, myoepithelial hyperplasia, microglandular hyperplasia, squamous hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, ecchymosis, petechia, infarct, purpura, thrombosis, adnexal and skin appendage tumor, transitional cell tumor, ulcer, disseminated intravascular coagulation, congestion, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma, squamous metaplasia, epithelial metaplasia, osseous metaplasia, granulation tissue, actinic keratosis, acanthosis, hypergranulosis, basal cell hyperplasia, orthokeratosis, hyperkeratosis, parakeratosis, seborrheic keratosis, cartilaginous metaplasia, apocrine metaplasia, lipomatous metaplasia, karyomegaly, hypertrophic tissue, concretion, epidermal inclusion cyst, cyst, serous exudate, cholesterol deposition, crystalloid formation,

pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, prolapse, steatosis, abscess, sarcoma, adenoacanthoma, rhabdoid sarcoma, fibroadenoma, sebaceous adenoma, adenoma, trichoepithelioma, basal cell carcinoma, basal cell tumor, angiofibroma, blood vessel tumor, hemangioma, hemangiosarcoma, sebaceous adenocarcinoma, papillary hidradenoma, apocrine adenoma, apocrine adenocarcinoma, ceruminous adenoma, eccrine papillary adenoma, eccrine gland adenoma, papillary adenoma, papillary adenocarcinoma, papillary cystadenocarcinoma, papilloma, hamartoma, melanoma, naevus, teratoma, angiomyolipoma, lipomatous tumor, liposarcoma, lipoma, leiomyosarcoma, rhabdomyosarcoma, lymphangioma, leiomyoma, fibroma, dermatofibrosarcoma, fibrous histiocytoma, adenomatous polyp, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, pseudocyst, squamous cell papilloma, keratoacanthoma, squamous cell carcinoma, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, curvature defect, plasma cell neoplasms, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, histiocytic sarcoma, mast cell sarcoma, perforation, obstruction and stenosis, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell sarcoma, spindle cell hyperplasia, rhabdomyoma, xanthoma, pigmentary incontinence, recanalised thrombus, interstitial mineralization, myxofibroma, myofibroma, metastatic tumor, blister, epidermolysis bullosa lesions, cytoskeletal defect, plasma membrane defect, lymphedema,

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Skin - MPATH pathological process term IMPC_HIS_123_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, alopecia, scarring alopecia, inflammation, neuritis, dystrophy, hypersensitivity disease, dermatitis, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, steatitis, cellulitis, furunculosis, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation,

acute inflammation, necrotic inflammation, vasculitis, fat necrosis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, myxoid/myxomatous degeneration, depletion, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, polycystic disease, proliferative dermatitis, histiocytosis, mastocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, trichogranuloma, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, alopecia areata, botryomycosis, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Small intestine - Descriptor PATO IMPC_HIS_077_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Small intestine - MA term IMPC_HIS_386_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: duodenum, small intestine, ileum, jejunum, small intestine villus, small intestine mesentery, mesoduodenum, small intestine peyers patch, brunners gland, small intestine crypt of lieberkuhn, small intestine wall, small intestine submucosa, small intestine smooth muscle, small intestine smooth muscle circular layer, small intestine smooth muscle longitudinal layer, small intestine serosa,

small intestine mucosa, small intestine lamina propria, small intestine epithelium, small intestine muscularis mucosa, jejunum mucosa, jejunum epithelium, duodenum submucosa, duodenum muscularis, duodenum serosa, duodenum mucosa, duodenum muscularis mucosa, duodenum epithelium, duodenum lamina propria, duodenal papilla, choledochoduodenal junction, ileum mucosa, ileum epithelium,

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Small intestine - MPATH pathological entity term IMPC_HIS_073_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, fibroglandular hyperplasia, epithelial hyperplasia, hyperplastic polyp, polyp, inflammatory polyp, myoepithelial hyperplasia, microglandular hyperplasia, mesothelial hyperplasia, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, ulcer, congestion, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma, mucinous carcinoma, squamous metaplasia, epithelial metaplasia, osseous metaplasia, cartilaginous metaplasia, intestinal metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, prolapse, steatosis, abscess, adenoacanthoma, fibroadenoma, adenoma, angiofibroma, blood vessel tumor, hemangioma, hemangiosarcoma, papillary adenoma, papillary adenocarcinoma, papillary cystadenocarcinoma, papilloma, signet ring cell carcinoma, pseudomyxoma peritonei, hamartoma, mesothelioma, carcinoid tumor, teratoma, liposarcoma, lipoma, leiomyosarcoma, leiomyoma, fibroma, adenomatous polyp, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, intestinal intra-epithelial neoplasia, pseudocyst, squamous cell carcinoma, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, diverticulum, communication defect, heterotopia, fistula, hernia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, mast cell sarcoma, perforation, obstruction and stenosis, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis,

hematoma, bile deposition, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, melena, intussception, metastatic tumor, stasis, situs inversus, cytoskeletal defect, plasma membrane defect, torsion, lymphedema,

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Small intestine - MPATH pathological process term IMPC_HIS_075_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, steatitis, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, fat necrosis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, myxoid/myxomatous degeneration, depletion, incomplete closure, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, histiocytosis, mastocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, peritonitis, foreign body granulomatous peritonitis, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Spinal cord - Descriptor PATO IMPC_HIS_017_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Spinal cord - MA term IMPC_HIS_387_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: spinal cord, spinal cord meninges, spinal cord arachnoid mater, spinal cord pia mater, spinal cord dura mater, spinal cord ependymal layer, spinal cord lateral motor column, spinal cord central canal, spinal cord segment, spinal cord cervical segment, spinal cord coccygeal segment, spinal cord sacral segment, spinal cord thoracic segment, spinal cord lumbar segment>, cauda equina, spinal cord lateral wall, spinal cord white matter, spinal cord lateral column, spinal cord ventral column, spinal cord dorsal column, spinal cord grey matter, spinal cord ventral horn, spinal cord intermediate grey, spinal cord dorsal commissural nucleus, spinal cord central cervical nucleus, spinal cord intermediolateral nucleus, spinal cord dorsal horn, spinal cord basal nucleus, lateral spinal nucleus, lateral cervical nucleus, spinal cord marginal zone, spinal cord dorsal nucleus, substantia gelatinosa, spinal cord reticular nucleus, nucleus approprius, spinal cord central grey,

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Spinal cord - MPATH pathological entity term IMPC_HIS_013_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hyperplastic polyp, polyp, mesothelial hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, infarct, thrombosis, disseminated intravascular coagulation, congestion, edema, complex tumor, mineralisation, intracellular and extracellular accumulation, glioblastoma, glioma, central nervous system tumor, osseous metaplasia, cartilaginous metaplasia, glandular metaplasia, lipomatous metaplasia, karyomegaly, hypertrophic tissue, concretion, epidermal inclusion cyst, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, dilatation, avulsion, involution, prolapse, abscess, oligodendroglioma, meningioma, sarcoma, rhabdoid sarcoma, angiofibroma, blood vessel tumor, hemangioma, hemangiosarcoma, astrocytoma, ependymoma, neuroendocrine tumor, hamartoma, teratoma, lipoma, fibroma, fibrous histiocytoma, paraganglioma, symmetry defect, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, diverticulum, curvature defect, heterotopia, fistula, hernia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, histiocytic sarcoma, aneurysm, perforation, obstruction and stenosis, persistent embryonic structure, supernumerary structure, varices, hematoma, spindle cell sarcoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, metastatic tumor, stasis, ciliary motility defect, cytoskeletal defect, plasma membrane defect,

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Spinal cord - MPATH pathological process term IMPC_HIS_015_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, gliosis, fibrosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation,

necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, incomplete closure, growth arrest, aplasia, apoptosis, desmoplasia, polycystic disease, histiocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Spleen - Descriptor PATO IMPC_HIS_095_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Spleen - MA term IMPC_HIS_388_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: spleen, spleen capsule, spleen marginal sinus, spleen marginal zone, spleen smooth muscle, spleen trabeculum, spleen trabecular vein, spleen trabecular artery, spleen pulp, spleen white pulp, spleen central arteriole, spleen germinal center, spleen periarteriolar lymphatic sheath, spleen lymphoid follicle, spleen red pulp, spleen venous sinus, splenic cord, spleen hilum,

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Spleen - MPATH pathological entity term IMPC_HIS_091_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hyperplastic polyp, polyp, mesothelial hyperplasia, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, disseminated intravascular coagulation, congestion, complex tumor, mineralisation, intracellular and extracellular accumulation, osseous metaplasia, cartilaginous metaplasia, lipomatous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, avulsion, involution, steatosis, abscess, sarcoma, rhabdoid sarcoma, angiofibroma, blood vessel tumor, hemangioma, hemangiosarcoma, papilloma, hamartoma, mesothelioma, erythroid leukaemia, megakaryocytic leukaemia, myeloid leukaemia, teratoma, liposarcoma, lipoma, leiomyosarcoma, leiomyoma, fibroma, fibrous histiocytoma, telangiectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, curvature defect, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, splenic marginal zone lymphoma, histiocytic sarcoma, mast cell sarcoma, perforation, septation defect, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell sarcoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, metastatic tumor, splenomegaly, situs inversus, cytoskeletal defect, plasma membrane defect, torsion, lymphedema,

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Spleen - MPATH pathological process term IMPC_HIS_093_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, apoptosis, desmoplasia, polycystic disease, histiocytosis, mastocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, reactive splenomegaly, peritonitis, foreign body granulomatous peritonitis, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Sternum - Descriptor PATO IMPC_HIS_220_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Sternum - MA term IMPC_HIS_389_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: sternum, xiphisternum, sternebra, sternal manubrium,

Sternum - MPATH pathological entity term IMPC_HIS_216_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hemorrhage and non-specified extravasation, embolus, fatty infiltration, extramedullary hemopoiesis, infarct, thrombosis, osseous and chondromatous tumor, congestion, complex tumor, mineralisation, intracellular and extracellular accumulation, osseous metaplasia, cartilaginous metaplasia, lipomatous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, myeloid hyperplasia, angiectasia, avulsion, involution, steatosis, abscess, sarcoma, blood vessel tumor, hemangioma, hemangiosarcoma, hamartoma, chondroblastoma, erythroid leukaemia, megakaryocytic leukaemia, myeloid leukaemia, myelodysplastic disorder, teratoma, chondroma, osteoblastoma, chondrosarcoma, osteofibroma, osteochondroma, osteosarcoma, osteoma, liposarcoma, lipoma, chordoma, fibroma, fibrous histiocytoma, choristoma, pseudocyst, synovial sarcoma, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, heterotopia, melanin deposition, uric acid deposition, demyelination, decalcification, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, lipid depletion, hypocalcification, osteoporosis, osteopenia, histiocytic sarcoma, cytopenia with increased blasts, persistent embryonic structure, supernumerary structure, varices, hematoma, spindle cell sarcoma, spindle cell hyperplasia, exostosis, sequestrum, recanalised thrombus, interstitial mineralization, fracture, metastatic tumor, cytoskeletal defect, plasma membrane defect,

Sternum - MPATH pathological process term IMPC_HIS_218_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, fibro-osseous lesion, dysplasia, osteopetrosis, atrophy, erosion, myelofibrosis, inflammation, neuritis, dystrophy, hypersensitivity disease, arthritis, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, hyperostosis, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, fat necrosis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, arthrosis, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, fusion process defect, growth arrest, aplasia, apoptosis, desmoplasia, chondroarthritis, histiocytosis, mastocytosis, osteomyelitis, arteritis, degenerative arthritis, arthropathy, lymphangitis, phlebitis, cartilagenous erosion, polyarteritis nodosa, compression, bone marrow granulopoiesis, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Stomach - Descriptor PATO IMPC_HIS_071_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Stomach - MA term IMPC_HIS_390_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: stomach, stomach pyloric region, stomach region, stomach mesentery, ventral mesogastrium, lesser omentum, falciform ligament, dorsal mesogastrium, lieno-renal ligament, gastro-splenic ligament, greater omentum, forestomach, limiting ridge of stomach, stomach proventricular region, stomach pyloric antrum, stomach fundus, stomach glandular region, stomach glandular region mucosa, stomach glandular epithelium, stomach lesser curvature, stomach greater curvature, stomach cardiac region, gastroesophageal sphincter, stomach blind ventricular sac, pyloric sphincter, stomach body, stomach wall, stomach smooth muscle, stomach smooth muscle circular layer, stomach serosa, stomach mucosa, stomach epithelium, stomach squamous epithelium, stomach muscularis mucosa, stomach submucosa,

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Stomach - MPATH pathological entity term IMPC_HIS_067_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, fibroglandular hyperplasia, epithelial hyperplasia, goblet cell hyperplasia, hyperplastic polyp, polyp, inflammatory polyp, myoepithelial hyperplasia, microglandular hyperplasia, mesothelial hyperplasia, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, ulcer, congestion, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma, mucinous carcinoma, squamous metaplasia, epithelial metaplasia, osseous metaplasia, cartilaginous metaplasia, gastric metaplasia, goblet cell metaplasia, glandular metaplasia, intestinal metaplasia, karyomegaly, hypertrophic tissue, concretion, serous exudate, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, abscess, adenoacanthoma, fibroadenoma, adenoma, angiofibroma, blood vessel tumor, hemangioma, hemangiosarcoma, papillary adenoma, papillary adenocarcinoma,

papillary cystadenocarcinoma, papilloma, signet ring cell carcinoma, pseudomyxoma peritonei, hamartoma, mesothelioma, carcinoid tumor, teratoma, liposarcoma, lipoma, leiomyosarcoma, leiomyoma, fibroma, adenomatous polyp, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, intestinal intra-epithelial neoplasia, pseudocyst, squamous cell papilloma, squamous cell carcinoma, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, diverticulum, curvature defect, communication defect, mucous secretions, heterotopia, fistula, hernia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, mast cell sarcoma, perforation, obstruction and stenosis, persistent embryonic structure, supernumerary structure, varices, arteriovenous anastomosis, lymphangiectasis, hematoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, melena, intussception, metastatic tumor, stasis, situs inversus, cytoskeletal defect, plasma membrane defect, torsion,

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Stomach - MPATH pathological process term IMPC_HIS_069_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, incomplete closure, fusion process defect, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, polycystic disease, histiocytosis, mastocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, gastritis, foreign body gastritis, peritonitis,

foreign body granulomatous peritonitis, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Testis - Descriptor PATO IMPC_HIS_143_001 | v1.1

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Testis - MA term IMPC_HIS_391_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: testis, seminiferous tubule, seminiferous tubule epithelium, tunica vaginalis testis, tunica albuginea of testis, mediastinum testis, testis interstitial tissue, rete testis, testis vasculature, testis intersitial vessel, testis coelomic vessel, left testis, right testis,

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Testis - MPATH pathological entity term IMPC_HIS_139_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, epithelial hyperplasia, inflammatory polyp, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, congestion, edema, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, squamous metaplasia, epithelial metaplasia, osseous metaplasia, cartilaginous metaplasia, lipomatous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, steatosis, abscess, angiofibroma, blood vessel tumor, hemangioma, hemangiosarcoma, gonadal tumor, neuroendocrine tumor, hamartoma, sertoli cell tumor, thecoma, seminoma, germ cell tumor, leydig cell tumor, luteal cell tumor, teratoma, teratocarcinoma, granulosa cell tumor, liposarcoma, lipoma, fibroma, fibrous histiocytoma, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, communication defect, heterotopia, hernia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, histiocytic sarcoma, perforation, obstruction and stenosis, septation defect, persistent embryonic structure, supernumerary structure, germ cell defect, varices, lymphangiectasis, hematoma, spindle cell hyperplasia, Leydig cell hyperplasia, recanalised thrombus, interstitial mineralization, spermatocoele, true hermaphrodite, metastatic tumor, stasis, cryptorchidism, ciliary motility defect, cytoskeletal defect, plasma membrane defect, torsion, lymphedema,

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Testis - MPATH pathological process term IMPC_HIS_141_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, steatitis, osteoid deposition, pyogranulomatous inflammation,

granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, fat necrosis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, polycystic disease, histiocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, aspermia, spermatogenesis defect, hypospermia, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Thymus - Descriptor PATO IMPC_HIS_023_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Thymus - MA term IMPC_HIS_392_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: thymus, thymus capsule, thymus cortex, thymus epithelium, thymus subcapsular epithelium, thymus lobule, thymus medulla, hassalls corpuscle, thymus lymphoid tissue, thymus trabecula,

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Thymus - MPATH pathological entity term IMPC_HIS_019_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, disseminated intravascular coagulation, congestion, edema, complex tumor, mineralisation, intracellular and extracellular accumulation, osseous metaplasia, cartilaginous metaplasia, glandular metaplasia, lipomatous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, dilatation, avulsion, involution, steatosis, abscess, sarcoma, rhabdoid sarcoma, angiofibroma, blood vessel tumor, hemangioma, hemangiosarcoma, hamartoma, thymoma, teratoma, liposarcoma, lipoma, fibroma, fibrous histiocytoma, telangiectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, histiocytic sarcoma, septation defect, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell sarcoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, metastatic tumor, cytoskeletal defect, plasma membrane defect, lymphedema,

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Thymus - MPATH pathological process term IMPC_HIS_021_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, polycystic disease, histiocytosis, mastocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Thyroid - Descriptor PATO IMPC_HIS_029_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Thyroid - MA term IMPC_HIS_393_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: thyroid gland, thyroid gland parenchyma, thyroid gland follicle, thyroid gland isthmus, foramen caecum, thyroglossal duct, thyroid gland lobe, thyroid gland left lobe, thyroid gland right lobe, thyroid gland medulla, thyroid gland capsule,

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Thyroid - MPATH pathological entity term IMPC_HIS_025_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, fibroglandular hyperplasia, epithelial hyperplasia, inflammatory polyp, myoepithelial hyperplasia, microglandular hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, thrombosis, congestion, edema, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, squamous metaplasia, epithelial metaplasia, osseous metaplasia, cartilaginous metaplasia, glandular metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, abscess, adenoacanthoma, fibroadenoma, adenoma, medullary carcinoma, follicular adenocarcinoma, follicular adenoma, papilloma, thyroid C-cell carcinoma, thyroid C-cell adenoma, hamartoma, teratoma, lipoma, fibroma, symmetry defect, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, septation defect, persistent embryonic structure, supernumerary structure, varices, hematoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, thyroid follicle pleomorphism, metastatic tumor, cytoskeletal defect, plasma membrane defect,

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Thyroid - MPATH pathological process term IMPC_HIS_027_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, apoptosis, desmoplasia, polycystic disease, histiocytosis, mastocytosis, arteritis, lymphangitis, phlebitis, thyroiditis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Tibia - Descriptor PATO IMPC_HIS_248_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Tibia - MA term IMPC_HIS_394_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: tibia, tibia diaphysis, tibia epiphysis, tibia metaphysis,

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Tibia - MPATH pathological entity term IMPC_HIS_244_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: inflammatory polyp, hemorrhage and non-specified extravasation, embolus, fatty infiltration, extramedullary hemopoiesis, infarct, thrombosis, osseous and chondromatous tumor, congestion, complex tumor, mineralisation, intracellular and extracellular accumulation, osseous metaplasia, cartilaginous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, myeloid hyperplasia, angiectasia, avulsion, steatosis, abscess, sarcoma, blood vessel tumor, hemangioma, hemangiosarcoma, hamartoma, chondroblastoma, erythroid leukaemia, megakaryocytic leukaemia, myeloid leukaemia, myelodysplastic disorder, teratoma, chondroma, osteoblastoma, chondrosarcoma, osteofibroma, osteochondroma, osteosarcoma, osteoma, liposarcoma, lipoma, chordoma, fibroma, fibrous histiocytoma, telangiectasia, choristoma, pseudocyst, synovial sarcoma, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, heterotopia, melanin deposition, uric acid deposition, demyelination, decalcification, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, lipid depletion, hypocalcification, osteoporosis, osteopenia, histiocytic sarcoma, cytopenia with increased blasts, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell sarcoma, spindle cell hyperplasia, sequestrum, recanalised thrombus, interstitial mineralization, fracture, metastatic tumor, cytoskeletal defect, plasma membrane defect,

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Tibia - MPATH pathological process term IMPC_HIS_246_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, fibro-osseous lesion, dysplasia, osteopetrosis, atrophy, erosion, myelofibrosis, inflammation, neuritis, dystrophy, hypersensitivity disease, arthritis, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, hyperostosis, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, fat necrosis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, arthrosis, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, fusion process defect, growth arrest, aplasia, apoptosis, desmoplasia, chondroarthritis, histiocytosis, mastocytosis, osteomyelitis, arteritis, degenerative arthritis, arthropathy, lymphangitis, phlebitis, cartilagenous erosion, polyarteritis nodosa, compression, bone marrow granulopoiesis, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Tongue - Descriptor PATO IMPC_HIS_290_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Tongue - MA term IMPC_HIS_395_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: tongue, taste bud, intermolar eminence, tongue papilla, tongue papilla epithelium, fungiform papilla, circumvallate papilla, foliate papilla, filiform papilla, tongue epithelium, tongue squamous epithelium, tongue keratinized epithelium, tongue skeletal muscle, base of tongue,

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Tongue - MPATH pathological entity term IMPC_HIS_286_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, fibroglandular hyperplasia, epithelial hyperplasia, hyperplastic polyp, polyp, inflammatory polyp, myoepithelial hyperplasia, microglandular hyperplasia, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, ulcer, congestion, edema, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma, squamous metaplasia, epithelial metaplasia, osseous metaplasia, granulation tissue, cartilaginous metaplasia, glandular metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, serous exudate, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, steatosis, abscess, sarcoma, adenoacanthoma, rhabdoid sarcoma, fibroadenoma, adenoma, papillary adenoma, papillary adenocarcinoma, papillary cystadenocarcinoma, papilloma, hamartoma, teratoma, rhabdomyosarcoma, fibroma, ductal ectasia, choristoma, nodular hyperplasia, pseudocyst, squamous cell papilloma, squamous cell carcinoma, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, curvature defect, heterotopia, melanin deposition,

uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, persistent embryonic structure, supernumerary structure, varices, hematoma, spindle cell sarcoma, spindle cell hyperplasia, rhabdomyoma, recanalised thrombus, interstitial mineralization, myxofibroma, metastatic tumor, muscle regeneration,

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Tongue - MPATH pathological process term IMPC_HIS_288_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, glossitis, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, myositis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, myxoid/myxomatous degeneration, depletion, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, histiocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, foreign body glossitis, hemolysis, plasmacytosis, autoimmune mediated disease, multifocal muscle regeneration, reactive fibrosis, neoplasia,

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Tooth - Descriptor PATO IMPC_HIS_283_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Tooth - MA term IMPC_HIS_396_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: tooth, lower jaw tooth, lower jaw incisor, lower jaw molar, upper jaw tooth, upper jaw incisor, upper jaw molar, tooth cavity, dental pulp, incisor dental pulp, molar dental pulp, tooth substance, cementum, enamel, dentin, tooth mesenchyme, dental papilla, incisor dental papilla, molar dental papilla, dental follicle, molar mesenchyme, incisor mesenchyme, tooth epithelium, tooth enamel organ, molar enamel organ, incisor enamel organ, dental lamina, molar dental lamina, incisor dental lamina, molar epithelium, incisor epithelium, molar, incisor,

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Tooth - MPATH pathological entity term IMPC_HIS_279_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: inflammatory polyp, fatty infiltration, cystic hyperplasia, mineralisation, intracellular and extracellular accumulation, osseous metaplasia, cartilaginous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, avulsion, involution, abscess, sarcoma, rhabdoid sarcoma, angiofibroma, papilloma, odontogenic tumor, cementifying fibroma, ameloblastoma, cementoma, cementoblastoma, dentinoma, odontoma, hamartoma,

teratoma, fibroma, choristoma, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, curvature defect, heterotopia, melanin deposition, uric acid deposition, demyelination, decalcification, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, osteoporosis, osteopenia, persistent embryonic structure, supernumerary structure, spindle cell sarcoma, spindle cell hyperplasia, exostosis, sequestrum, interstitial mineralization, fracture, metastatic tumor, molar hypercementosis, cytoskeletal defect, plasma membrane defect,

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Tooth - MPATH pathological process term IMPC_HIS_281_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, fibro-osseous lesion, dysplasia, osteopetrosis, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, hyperostosis, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, myxoid/myxomatous degeneration, depletion, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, polycystic disease, histiocytosis, periodontitis, arteritis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, gingivitis, foreign body periodontitis, foreign body gingivitis, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Trachea - Descriptor PATO IMPC_HIS_041_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Trachea - MA term IMPC_HIS_397_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: trachea, trachea smooth muscle, trachea epithelium, trachea blood vessel, trachea connective tissue, trachea non-cartilage connective tissue, trachea submucosa, trachea elastic tissue, trachea gland, trachea basement membrane, trachea reticular lamina, trachea basal lamina, trachea lamina propria, trachea cartilage, tracheal bifurcation,

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Trachea - MPATH pathological entity term IMPC_HIS_037_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, fibroglandular hyperplasia, epithelial hyperplasia, goblet cell hyperplasia, hyperplastic polyp, polyp, inflammatory polyp, microglandular hyperplasia, hemorrhage and non-specified extravasation, fatty infiltration, cystic hyperplasia, infarct, thrombosis, ulcer, disseminated intravascular coagulation,

congestion, edema, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma, squamous metaplasia, epithelial metaplasia, osseous metaplasia, granulation tissue, cartilaginous metaplasia, goblet cell metaplasia, glandular metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, serous exudate, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, abscess, branching defect, adenoacanthoma, fibroadenoma, adenoma, papillary adenoma, papillary adenocarcinoma, papillary cystadenocarcinoma, papilloma, hamartoma, teratoma, lipoma, fibroma, adenomatous polyp, symmetry defect, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, pseudocyst, squamous cell papilloma, squamous cell carcinoma, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, diverticulum, curvature defect, communication defect, mucous secretions, heterotopia, fistula, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, perforation, obstruction and stenosis, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, metastatic tumor, ciliary motility defect, cytoskeletal defect, plasma membrane defect,

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Trachea - MPATH pathological process term IMPC_HIS_039_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, incomplete closure, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, histiocytosis, tracheitis, arteritis, lymphangitis, phlebitis,

polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, foreign body tracheitis, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Trigeminal V ganglion - Descriptor PATO IMPC_HIS_262_001 | v1.1

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Trigeminal V ganglion - MA term IMPC_HIS_398_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: trigeminal V ganglion,

Trigeminal V ganglion - MPATH pathological entity term IMPC_HIS_258_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hemorrhage and non-specified extravasation, fatty infiltration, cystic hyperplasia, peripheral nervous system tumors, congestion, edema, complex tumor, mineralisation, intracellular and extracellular accumulation, osseous metaplasia, cartilaginous metaplasia, karyomegaly, hypertrophic tissue, cyst, cholesterol deposition, crystalloid formation, pigmentation, avulsion, involution, steatosis, abscess, sarcoma, neuroendocrine tumor, ganglioneuroma, hamartoma, teratoma, fibroma, fibrous histiocytoma, paraganglioma, telangiectasia, choristoma, pseudocyst, schwannoma, nerve sheath tumor, neurofibrosarcoma, neurofibroma, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, lipid depletion, histiocytic sarcoma, persistent embryonic structure, supernumerary structure, lymphangiectasis, spindle cell sarcoma, spindle cell hyperplasia, interstitial mineralization, metastatic tumor, cytoskeletal defect, plasma membrane defect,

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Trigeminal V ganglion - MPATH pathological process term

IMPC_HIS_260_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, gliosis, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, apoptosis, desmoplasia, histiocytosis, arteritis, lymphangitis,

phlebitis, polyarteritis nodosa, compression, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Urinary bladder - Descriptor PATO IMPC_HIS_137_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Urinary bladder - MA term IMPC_HIS_399_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: urinary bladder, urinary bladder wall, urinary bladder muscle, urinary bladder trigone muscle, urinary bladder detrusor muscle, urinary bladder neck muscle, urinary bladder mucosa, urinary bladder urothelium, urinary bladder lamina propria, urinary bladder muscularis mucosa, urinary bladder serosa, urinary bladder trigone, urinary bladder neck, urachus, urinary bladder fundus region,

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Urinary bladder - MPATH pathological entity term IMPC_HIS_133_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, epithelial hyperplasia, hyperplastic polyp, polyp, inflammatory polyp, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, transitional cell tumor, ulcer, congestion, edema, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, squamous metaplasia, epithelial metaplasia, transitional cell metaplasia, osseous metaplasia, cartilaginous metaplasia, nephrogenic metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, dilatation, avulsion, involution, abscess, angiofibroma, blood vessel tumor, hemangioma, hemangiosarcoma, papilloma, hamartoma, teratoma, liposarcoma, lipoma, leiomyosarcoma, leiomyoma, fibroma, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, diverticulum, communication defect, heterotopia, fistula, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, perforation, obstruction and stenosis, persistent embryonic structure, supernumerary structure, varices, hematoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, uretolithiasis, metastatic tumor, stasis, ciliary motility defect, cytoskeletal defect, plasma membrane defect, torsion,

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Urinary bladder - MPATH pathological process term IMPC_HIS_135_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation,

granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, myxoid/myxomatous degeneration, depletion, incomplete closure, growth arrest, aplasia, apoptosis, desmoplasia, polycystic disease, histiocytosis, urocystitis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Uterus - Descriptor PATO IMPC_HIS_173_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Uterus - MA term IMPC_HIS_400_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: uterus, uterus serosa, uterine gland, myometrium, myometrium outer longitudinal layer, myometrium inner circular layer, uterine cervix, cervix epithelium, cervix squamous epithelium, uterine horn, right uterine horn, left uterine horn, endometrium, endometrium epithelium, endometrium glandular epithelium, endometrium luminal epithelium, endometrium stroma, mesometrium,

Uterus - MPATH pathological entity term IMPC_HIS_169_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: epithelial and stromal hyperplasia, fibroglandular hyperplasia, epithelial hyperplasia, hyperplastic polyp, polyp, inflammatory polyp, myoepithelial hyperplasia, microglandular hyperplasia, lymphoid hyperplasia, squamous hyperplasia, hemorrhage and non-specified extravasation, embolus, fatty infiltration, cystic hyperplasia, infarct, thrombosis, transitional cell tumor, congestion, edema, adenocarcinoma, carcinoma, complex tumor, mineralisation, intracellular and extracellular accumulation, cribriform adenocarcinoma, squamous metaplasia, epithelial metaplasia, osseous metaplasia, cartilaginous metaplasia, glandular metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, serous exudate, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, ectasia, dilatation, avulsion, involution, prolapse, steatosis, abscess, branching defect, adenoacanthoma, fibroadenoma, adenoma, angiofibroma, blood vessel tumor, hemangioma, hemangiosarcoma, papillary adenoma, papillary adenocarcinoma, papillary cystadenocarcinoma, papilloma, hamartoma, mesonephroma, teratoma, leiomyosarcoma, leiomyoma, fibroma, fibrous histiocytoma, adenomatous polyp, symmetry defect, telangiectasia, ductal ectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, diverticulum, communication defect, heterotopia, fistula, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, glycogen depletion, histiocytic sarcoma, perforation, obstruction and stenosis, septation defect, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell hyperplasia, mucometra, recanalised thrombus, interstitial mineralization, true hermaphrodite, uterine ectasia, metastatic tumor, stasis, cytoskeletal defect, plasma membrane defect, torsion, lymphedema,

Uterus - MPATH pathological process term IMPC_HIS_171_002 | v2.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, myxoid/myxomatous degeneration, depletion, incomplete closure, fusion process defect, growth arrest, aplasia, defective branching morphogenesis, apoptosis, desmoplasia, polycystic disease, histiocytosis, mastocytosis, metritis, arteritis, lymphangitis, phlebitis, pyometra, uterine cystic endometrial hyperplasia, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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White adipose tissue - Descriptor PATO IMPC_HIS_402_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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White adipose tissue - MA term IMPC_HIS_404_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: white adipose tissue,

White adipose tissue - MPATH pathological entity term IMPC_HIS_405_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: fat cell hyperplasia, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, cystic hyperplasia, infarct, thrombosis, congestion, complex tumor, mineralisation, intracellular and extracellular accumulation, osseous metaplasia, cartilaginous metaplasia, lipomatous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, involution, steatosis, abscess, sarcoma, angiofibroma, hemangioma, hamartoma, teratoma, angiomyolipoma, lipomatous tumor, liposarcoma, lipoma, fibroma, telangiectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, lymphoid neoplasms, displacement and deformity, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, lipid depletion, septation defect, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell sarcoma, spindle cell hyperplasia, xanthoma, recanalised thrombus, interstitial mineralization, myofibroma, metastatic tumor, plasma membrane defect,

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White adipose tissue - MPATH pathological process term I

MPC_HIS_406_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, steatitis, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, fat necrosis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, apoptosis, desmoplasia, polycystic disease, histiocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Experimenter ID IMPC_HIS_208_001 | v1.1

procedureMetadata

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Section thickness IMPC_HIS_176_001 | v1.1

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Unit Measured: um

Options: 3, 4, 5, 6,

Severity maximum score IMPC_HIS_178_001 | v1.0

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 3, 4, 5,

Stain IMPC_HIS_175_001 | v1.1

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: H&E, Cresyl violet-LFB,

Images IMPC_HIS_177_001 | v1.0

seriesMediaParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Adrenal gland - Description IMPC_HIS_108_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Adrenal gland - Free text diagnostic term IMPC_HIS_104_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Adrenal gland - Severity score IMPC_HIS_106_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Adrenal gland - Significance score IMPC_HIS_196_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Bone - Description IMPC_HIS_347_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Bone - Free text diagnostic term IMPC_HIS_343_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Bone - Severity score IMPC_HIS_345_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Bone - Significance score IMPC_HIS_348_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1,

Bone marrow - Description IMPC_HIS_235_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Bone marrow - Free text diagnostic term IMPC_HIS_231_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Bone marrow - Severity score IMPC_HIS_233_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Bone marrow - Significance score IMPC_HIS_236_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Options: 0, 1,

Brain - Description IMPC_HIS_006_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Brain - Free text diagnostic term IMPC_HIS_002_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Brain - Severity score IMPC_HIS_004_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Brain - Significance score IMPC_HIS_179_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Brown adipose tissue - Description IMPC_HIS_242_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Brown adipose tissue - Free text diagnostic term IMPC_HIS_238_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Brown adipose tissue - Severity score IMPC_HIS_240_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Brown adipose tissue - Significance score IMPC_HIS_243_001 | v1.2

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Options: 0, 1,

Ear - Description IMPC_HIS_277_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Ear - Free text diagnostic term IMPC_HIS_273_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Ear - Severity score IMPC_HIS_275_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Ear - Significance score IMPC_HIS_278_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Options: 0, 1,

Epididymis - Description IMPC_HIS_150_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Epididymis - Free text diagnostic term IMPC_HIS_146_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Epididymis - Severity score IMPC_HIS_148_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Epididymis - Significance score IMPC_HIS_203_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1, Not applicable,

Esophagus - Description IMPC_HIS_048_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Esophagus - Free text diagnostic term IMPC_HIS_044_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Esophagus - Severity score IMPC_HIS_046_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Esophagus - Significance score IMPC_HIS_186_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Eye - Description IMPC_HIS_012_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Eye - Free text diagnostic term IMPC_HIS_008_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Eye - Severity score IMPC_HIS_010_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Eye - Significance score IMPC_HIS_180_002 | v2.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Femur - Description IMPC_HIS_228_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Femur - Free text diagnostic term IMPC_HIS_224_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Femur - Severity score IMPC_HIS_226_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Femur - Significance score IMPC_HIS_229_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Options: 0, 1,

Gall bladder - Description IMPC_HIS_066_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Gall bladder - Free text diagnostic term IMPC_HIS_062_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Gall bladder - Severity score IMPC_HIS_064_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Gall bladder - Significance score IMPC_HIS_189_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Heart - Description IMPC_HIS_036_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Heart - Free text diagnostic term IMPC_HIS_032_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Heart - Severity score IMPC_HIS_034_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Heart - Significance score IMPC_HIS_184_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Kidney - Description IMPC_HIS_102_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Kidney - Free text diagnostic term IMPC_HIS_098_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Kidney - Severity score IMPC_HIS_100_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Kidney - Significance score IMPC_HIS_195_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Knee joint - Description IMPC_HIS_256_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Knee joint - Free text diagnostic term IMPC_HIS_252_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Knee joint - Severity score IMPC_HIS_254_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Knee joint - Significance score IMPC_HIS_257_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Options: 0, 1,

Large intestine - Description IMPC_HIS_084_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Large intestine - Free text diagnostic term IMPC_HIS_080_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Large intestine - Severity score IMPC_HIS_082_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Large intestine - Significance score IMPC_HIS_192_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Liver - Description IMPC_HIS_060_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Liver - Free text diagnostic term IMPC_HIS_056_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Liver - Severity score IMPC_HIS_058_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Liver - Significance score IMPC_HIS_188_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Lung - Description IMPC_HIS_054_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Lung - Free text diagnostic term IMPC_HIS_050_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Lung - Severity score IMPC_HIS_052_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Lung - Significance score IMPC_HIS_187_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Lymph node - Description IMPC_HIS_120_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Lymph node - Free text diagnostic term IMPC_HIS_116_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Lymph node - Severity score IMPC_HIS_118_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Lymph node - Significance score IMPC_HIS_198_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Mammary gland - Description IMPC_HIS_114_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Mammary gland - Free text diagnostic term IMPC_HIS_110_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Mammary gland - Severity score IMPC_HIS_112_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Mammary gland - Significance score IMPC_HIS_197_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1, Not applicable,

Nasal cavity - Description IMPC_HIS_270_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Nasal cavity - Free text diagnostic term IMPC_HIS_266_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Nasal cavity - Severity score IMPC_HIS_268_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Nasal cavity - Significance score IMPC_HIS_271_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Options: 0, 1,

Ovary - Description IMPC_HIS_168_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Ovary - Free text diagnostic term IMPC_HIS_164_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Ovary - Severity score IMPC_HIS_166_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Ovary - Significance score IMPC_HIS_206_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1, Not applicable,

Pancreas - Description IMPC_HIS_090_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Pancreas - Free text diagnostic term IMPC_HIS_086_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Pancreas - Severity score IMPC_HIS_088_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Pancreas - Significance score IMPC_HIS_193_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Pituitary gland - Description IMPC_HIS_372_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Pituitary gland - Free text diagnostic term IMPC_HIS_374_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Pituitary gland - Severity score IMPC_HIS_378_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Pituitary gland - Significance score IMPC_HIS_379_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1,

Prostate gland - Description IMPC_HIS_156_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Prostate gland - Free text diagnostic term IMPC_HIS_152_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Prostate gland - Severity score IMPC_HIS_154_001 | v1.2

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Prostate gland - Significance score IMPC_HIS_204_002 | v2.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1, Not applicable,

Salivary gland - Description IMPC_HIS_214_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Salivary gland - Free text diagnostic term IMPC_HIS_210_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Salivary gland - Severity score IMPC_HIS_212_001 | v1.2

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Salivary gland - Significance score IMPC_HIS_215_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Options: 0, 1,

Sciatic nerve - Description IMPC_HIS_298_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Sciatic nerve - Free text diagnostic term IMPC_HIS_294_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Sciatic nerve - Severity score IMPC_HIS_296_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Sciatic nerve - Significance score IMPC_HIS_299_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Options: 0, 1,

Seminal vesicle - Description IMPC_HIS_162_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Seminal vesicle - Free text diagnostic term IMPC_HIS_158_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Seminal vesicle - Severity score IMPC_HIS_160_001 | v1.2

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Seminal vesicle - Significance score IMPC_HIS_205_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1, Not applicable,

Skeletal muscle - Description IMPC_HIS_132_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Skeletal muscle - Free text diagnostic term IMPC_HIS_128_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Skeletal muscle - Severity score IMPC_HIS_130_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Skeletal muscle - Significance score IMPC_HIS_200_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Skin - Description IMPC_HIS_126_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Skin - Free text diagnostic term IMPC_HIS_122_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Skin - Severity score IMPC_HIS_124_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Skin - Significance score IMPC_HIS_199_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Small intestine - Description IMPC_HIS_078_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Small intestine - Free text diagnostic term IMPC_HIS_074_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Small intestine - Severity score IMPC_HIS_076_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Small intestine - Significance score IMPC_HIS_191_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Spinal cord - Description IMPC_HIS_018_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Spinal cord - Free text diagnostic term IMPC_HIS_014_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Spinal cord - Severity score IMPC_HIS_016_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Spinal cord - Significance score IMPC_HIS_181_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Spleen - Description IMPC_HIS_096_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Spleen - Free text diagnostic term IMPC_HIS_092_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Spleen - Severity score IMPC_HIS_094_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Spleen - Significance score IMPC_HIS_194_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Sternum - Description IMPC_HIS_221_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Sternum - Free text diagnostic term IMPC_HIS_217_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Sternum - Severity score IMPC_HIS_219_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Sternum - Significance score IMPC_HIS_222_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Options: 0, 1,

Stomach - Description IMPC_HIS_072_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Stomach - Free text diagnostic term IMPC_HIS_068_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Stomach - Severity score IMPC_HIS_070_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Stomach - Significance score IMPC_HIS_190_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Testis - Description IMPC_HIS_144_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Testis - Free text diagnostic term IMPC_HIS_140_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Testis - Severity score IMPC_HIS_142_001 | v1.2

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Testis - Significance score IMPC_HIS_202_002 | v2.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1, Not applicable,

Thymus - Description IMPC_HIS_024_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Thymus - Free text diagnostic term IMPC_HIS_020_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Thymus - Severity score IMPC_HIS_022_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Thymus - Significance score IMPC_HIS_182_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Thyroid - Description IMPC_HIS_030_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Thyroid - Free text diagnostic term IMPC_HIS_026_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Thyroid - Severity score IMPC_HIS_028_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Thyroid - Significance score IMPC_HIS_183_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Tibia - Description IMPC_HIS_249_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Tibia - Free text diagnostic term IMPC_HIS_245_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Tibia - Severity score IMPC_HIS_247_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Tibia - Significance score IMPC_HIS_250_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Options: 0, 1,

Tongue - Description IMPC_HIS_291_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Tongue - Free text diagnostic term IMPC_HIS_287_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Tongue - Severity score IMPC_HIS_289_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Tongue - Significance score IMPC_HIS_292_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Options: 0, 1,

Tooth - Description IMPC_HIS_284_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Tooth - Free text diagnostic term IMPC_HIS_280_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Tooth - Severity score IMPC_HIS_282_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Tooth - Significance score IMPC_HIS_285_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Options: 0, 1,

Trachea - Description IMPC_HIS_042_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Trachea - Free text diagnostic term IMPC_HIS_038_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Trachea - Severity score IMPC_HIS_040_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Trachea - Significance score IMPC_HIS_185_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Trigeminal V ganglion - Description IMPC_HIS_263_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Trigeminal V ganglion - Free text diagnostic term IMPC_HIS_259_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Trigeminal V ganglion - Severity score IMPC_HIS_261_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Trigeminal V ganglion - Significance score IMPC_HIS_264_001 | v1.2

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** true

Options: 0, 1,

Urinary bladder - Description IMPC_HIS_138_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Urinary bladder - Free text diagnostic term IMPC_HIS_134_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Urinary bladder - Severity score IMPC_HIS_136_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Urinary bladder - Significance score IMPC_HIS_201_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1,

Uterus - Description IMPC_HIS_174_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Uterus - Free text diagnostic term IMPC_HIS_170_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Uterus - Severity score IMPC_HIS_172_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Uterus - Significance score IMPC_HIS_207_002 | v2.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** true

Options: 0, 1, Not applicable,

White adipose tissue - Description IMPC_HIS_401_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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White adipose tissue - Free text diagnostic term IMPC_HIS_403_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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White adipose tissue - Severity score IMPC_HIS_407_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

White adipose tissue - Significance score IMPC_HIS_408_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1,

Subcutaneous adipose tissue - Description IMPC_HIS_409_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Subcutaneous adipose tissue - Descriptor PATO IMPC_HIS_410_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Subcutaneous adipose tissue - Free text diagnostic term IMPC_HIS_411_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Subcutaneous adipose tissue - MA term IMPC_HIS_412_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: subcutaneous adipose tissue,

Subcutaneous adipose tissue - MPATH pathological entity term IMPC_HIS_413_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: fat cell hyperplasia, lymphoid hyperplasia, hemorrhage and non-specified extravasation, embolus, cystic hyperplasia, infarct, thrombosis, congestion, complex tumor, mineralisation, intracellular and extracellular accumulation, osseous metaplasia, cartilaginous metaplasia, lipomatous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, involution, steatosis, abscess, sarcoma, angiofibroma, hemangioma, hamartoma, teratoma, angiomyolipoma, lipomatous tumor, liposarcoma, lipoma, fibroma, telangiectasia, choristoma, nodular hyperplasia, pseudocyst, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, lipid depletion, septation defect, persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell sarcoma, spindle cell hyperplasia, xanthoma, recanalised thrombus, interstitial mineralization, myofibroma, metastatic tumor, plasma membrane defect,

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Subcutaneous adipose tissue - MPATH pathological process term IMPC_HIS_414_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, connective tissue replacement, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, fibrosis, sclerosis, hypertrophy, metaplasia, steatitis, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, fat necrosis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, apoptosis, desmoplasia, polycystic disease, histiocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Subcutaneous adipose tissue - Severity score IMPC_HIS_415_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Subcutaneous adipose tissue - Significance score IMPC_HIS_416_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Options: 0, 1,

Optic II nerve - Description IMPC_HIS_417_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Description: optic_II_nerve_description

Optic II nerve - Descriptor PATO IMPC_HIS_418_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: acute, right, left, subacute, random pattern, multifocal to coalescing, multi-localised, generalized, segmental, distributed, chronic-active, chronic, focally extensive, localized, transmural, bilateral, unilateral, symmetrical, peracute,

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Optic II nerve - Free text diagnostic term IMPC_HIS_419_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

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Optic II nerve - MA term IMPC_HIS_420_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: optic II nerve,

Optic II nerve - MPATH pathological entity term IMPC_HIS_421_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Ontology Options: hemorrhage and non-specified extravasation, fatty infiltration, infarct, thrombosis, peripheral nervous system tumors, disseminated intravascular coagulation, congestion, edema, complex tumor, mineralisation,
intracellular and extracellular accumulation, transitional cell metaplasia, osseous metaplasia, cartilaginous metaplasia, lipomatous metaplasia, karyomegaly, hypertrophic tissue, concretion, cyst, cholesterol deposition, crystalloid formation, pigmentation, angiectasia, dilatation, avulsion, involution, abscess, sarcoma, rhabdoid sarcoma, angiofibroma, ganglioneuroma, hamartoma, teratoma, lipoma, fibroma, paraganglioma, telangiectasia, choristoma, nodular hyperplasia, pseudocyst, schwannoma, nerve sheath tumor, neurofibrosarcoma, neurofibroma, amyloid deposition, calcium deposition, copper deposition, protein deposition, ceroid deposition, glycogen deposition, displacement and deformity, heterotopia, melanin deposition, uric acid deposition, demyelination, iron deposition, hyalinosis, lipofuscin deposition, lipid deposition, obstruction and stenosis,
persistent embryonic structure, supernumerary structure, varices, lymphangiectasis, hematoma, spindle cell sarcoma, spindle cell hyperplasia, recanalised thrombus, interstitial mineralization, metastatic tumor, cytoskeletal defect, plasma membrane defect, torsion,

Optic II nerve - MPATH pathological process term IMPC_HIS_422_001 | v1.0

ontologyParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Ontology Options: hypoplasia, hyperplasia, dysplasia, atrophy, erosion, inflammation, neuritis, dystrophy, hypersensitivity disease, angiogenesis, fibrin deposition, extracellular matrix deposition, fibroblast proliferation, gliosis, fibrosis, sclerosis, hypertrophy, metaplasia, osteoid deposition, pyogranulomatous inflammation, granulomatous inflammation, chronic inflammation, acute inflammation, necrotic inflammation, vasculitis, necrosis, fibrinoid necrosis, caseous necrosis, coagulation necrosis, developmental cystic dysplasia, developmental dysplasia, angiogenesis defect, normal, atherosclerosis, liquefactive necrosis, hemorrhagic necrosis, depletion, growth arrest, aplasia, apoptosis, desmoplasia, histiocytosis, arteritis, lymphangitis, phlebitis, polyarteritis nodosa, compression, inspissation, hydropic degeneration, vacuolation, regeneration, subacute inflammation, granuloma, hemolysis, plasmacytosis, autoimmune mediated disease, reactive fibrosis, neoplasia,

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Optic II nerve - Severity score IMPC_HIS_423_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1, 2, 3, 4, 5, Not applicable,

Optic II nerve - Significance score IMPC_HIS_424_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Options: 0, 1,

Date of sacrifice IMPC_HIS_425_001 | v1.0

procedureMetadata

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: date_of_sacrifice